COVER SHEET
G-000
FOR BLUEBEAM LABELING OCR:

PBK

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

Galena Park ISD
1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

December 5, 2025



BOARD OF TRUSTEES	
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Mrs. Linda Clark Sherrard	Board Vice President
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Dr. Wanna Giacona	Chief Administrative Officer
Mr. Ben Pape	Chief Financial Officer
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Mrs. Holli Malloy	Assistant Superintendent for Academic Support
Mr. Jerid Link	Assistant Superintendent for Human Resource Services

GPISD ADMINISTRATION	
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Mr. Lee Ramirez	Executive Director for Operations
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Ms. Vivian Dancy	Director for Athletics
Mr. Ed Martir	Director for Facilities, Planning & Construction
Mr. Trey Kraemer	Campus Liaison

ARCHITECT
PBK ARCHITECTS, INC
11 GREENWAY PLAZA
SUITE 2200
HOUSTON, TX 77046
T 713-965-0608

CIVIL ENGINEER
DIG ENGINEERS
11 GREENWAY PLAZA
SUITE 1510
HOUSTON, TX 77046
T 713-965-0608

STRUCTURAL ENGINEER
KUBALA ENGINEERS
11 GREENWAY PLAZA
SUITE 1510
HOUSTON, TX 77046
T 713-965-0608

LANDSCAPE ARCHITECT
EDGELAND
11 GREENWAY PLAZA
SUITE 1510
HOUSTON, TX 77046
T 713-965-0608

MEP ENGINEER
LEAF ENGINEERS
11 GREENWAY PLAZA
SUITE 1510
HOUSTON, TX 77046
T 713-965-0608

TECHNOLOGY CONSULTANT
LEAF ENGINEERS
11 GREENWAY PLAZA
SUITE 1510
HOUSTON, TX 77046
T 713-965-0608

ENVELOPE CONSULTANT
BEAM
11 GREENWAY PLAZA
SUITE 1510
HOUSOTN, TX 77046
T 713-965-0608

ISSUE FOR PROPOSAL

1000 Keene St,
Galena Park, TX 77547

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

SHEET INDEX
G-001

FOR BLUEBEAM LABELINGDOCR:

0"
1"

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G-101	1ST FLOOR - CODE REVIEW
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S-011	GENERAL NOTES
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SD-101B	FOUNDATION DEMO PLAN - AREA B
SD-101D	FOUNDATION DEMO PLAN - AREA D
SD-101F	FOUNDATION DEMO PLAN - AREA F
SD-101M	FOUNDATION DEMO PLAN - EXISTING MECH YARD
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SD-102F	SECOND FLOOR DEMO PLAN - AREA F
SD-102M	SECOND FLOOR DEMO PLAN - EXISTING MECH YARD
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S-101C	FOUNDATION PLAN - AREA C
S-101D	FOUNDATION PLAN - AREA D
S-101E	FOUNDATION PLAN - AREA E
S-101F	FOUNDATION PLAN - AREA F
S-101G	FOUNDATION PLAN - AREA G
S-101M	FOUNDATION PLAN - MISC
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S-102A	SECOND FLOOR FRAMING PLAN - AREA A
S-102B	SECOND FLOOR FRAMING PLAN - AREA B
S-102C	SECOND FLOOR FRAMING PLAN - AREA C
S-102D	SECOND FLOOR FRAMING PLAN - AREA D
S-102E	SECOND FLOOR FRAMING PLAN - AREA E
S-102F	SECOND FLOOR FRAMING PLAN - AREA F
S-103	COMPOSITE THIRD FLOOR FRAMING PLAN
S-103A	THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A
S-103B	THIRD FLOOR FRAMING PLAN - AREA B
S-103C	THIRD FLOOR FRAMING PLAN - AREA C
S-103D	THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
S-103E	THIRD FLOOR FRAMING PLAN - AREA E
S-103F	THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F
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S-104D	CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D
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S-104F	CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F
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S-304	GENERAL FOUNDATION NOTES AND TYP DETAILS
S-305	GENERAL EXISTING FOUNDATION NOTES AND TYP DETAILS
S-310	FOUNDATION DETAILS
S-311	FOUNDATION DETAILS
S-312	FOUNDATION DETAILS
S-313	FOUNDATION DETAILS (CMU)
S-314	FOUNDATION DETAILS (CMU)
S-315	FOUNDATION DETAILS (CMU)
S-316	ELEVATOR PIT DETAILS
S-320	SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-321	SITE ITEMS FOUNDATION SECTIONS AND DETAILS
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S-401	GENERAL CMU NOTES AND TYP DETAILS
S-402	MISC CMU DETAILS
S-403	MISC CMU DETAILS
S-500	GENERAL STEEL NOTES AND TYP DETAILS
S-501	GENERAL STEEL NOTES AND TYP DETAILS
S-502	GENERAL STEEL NOTES AND TYP DETAILS
S-503	GENERAL STEEL CONNECTION NOTES AND TYP DETAILS
S-504	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS
S-505	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS
S-506	TYPICAL STEEL DECK DETAILS
S-507	GENERAL STEEL NOTES AND TYP DETAILS
S-508	GENERAL STEEL NOTES AND TYP DETAILS
S-509	GENERAL STEEL NOTES AND TYP DETAILS
S-510	COMPOSITE FRAMING DETAILS
S-511	COMPOSITE FRAMING DETAILS
S-512	COMPOSITE FRAMING DETAILS
S-513	COMPOSITE FRAMING DETAILS
S-514	COMPOSITE FRAMING DETAILS
S-520	ROOF FRAMING DETAILS
S-521	ROOF FRAMING DETAILS
S-522	ROOF FRAMING DETAILS
S-523	ROOF FRAMING DETAILS
S-524	ROOF FRAMING DETAILS
S-525	ROOF FRAMING DETAILS
S-526	ROOF FRAMING DETAILS
S-530	BUILDING SECTIONS
S-531	BUILDING SECTIONS
S-532	BUILDING SECTIONS
S-533	BUILDING ELEVATION
S-600	TYPICAL WIND BRACING ELEVATIONS - AREA A
S-601	TYPICAL WIND BRACING ELEVATIONS - AREA B
S-602	TYPICAL WIND BRACING ELEVATIONS - AREA B
S-603	TYPICAL WIND BRACING ELEVATIONS - AREA C
S-604	TYPICAL WIND BRACING ELEVATIONS - AREA D
S-605	TYPICAL WIND BRACING ELEVATIONS - AREA E
S-606	TYPICAL WIND BRACING ELEVATIONS - AREA F
S-607	TYPICAL WIND BRACING ELEVATIONS - AREA G
S-610	TYPICAL WIND BRACING DETAILS
S-700	TYPICAL LADDER DETAILS

Grand total: 104

SHEET NUMBER	SHEET NAME DD
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ASD-101	DEMOLITION SITE PLAN
AD101	LEVEL 1 - DEMOLITION FLOOR PLAN
AS-111	SITE PLAN - PHASE 3B
AS-402	ENLARGED SITE PLANS
AS-403	ENLARGED SITE PLANS
AS-711	SITE DETAILS
A-101	LEVEL 1 - OVERALL FLOOR PLAN
A-101A	LEVEL 1 - AREA A FLOOR PLAN
A-101B	LEVEL 1 - AREA B FLOOR PLAN
A-101C	LEVEL 1 - AREA C FLOOR PLAN
A-101D	LEVEL 1 - AREA D FLOOR PLAN
A-101E	LEVEL 1 - AREA E FLOOR PLAN
A-101F	LEVEL 1 - AREA F FLOOR PLAN
A-101G	LEVEL 1 - AREA G FLOOR PLAN
A-101H	LEVEL 1 - AREA H - MECHANICAL YARD PLAN
A-102	LEVEL 2 - OVERALL FLOOR PLAN
A-102A	LEVEL 2 - AREA A FLOOR PLAN
A-102B	LEVEL 2 - AREA B FLOOR PLAN
A-102C	LEVEL 2 - AREA C FLOOR PLAN
A-102D	LEVEL 2 - AREA D FLOOR PLAN
A-102E	LEVEL 2 - AREA E FLOOR PLAN
A-102F	LEVEL 2 - AREA F FLOOR PLAN
A-103	LEVEL 3 - OVERALL FLOOR PLAN
A-103B	LEVEL 3 - AREA B FLOOR PLAN
A-103C	LEVEL 3 - AREA C FLOOR PLAN
A-103D	LEVEL 3 - AREA D FLOOR PLAN
A-103E	LEVEL 3 - AREA E FLOOR PLAN
A-103F	LEVEL 3 - AREA F FLOOR PLAN
A-104M	MECHANICAL PENTHOUSE & CLEARSTORY FLOOR PLAN
A-201	LEVEL 1 - OVERALL CEILING PLAN
A-201A	LEVEL 1 - AREA A CEILING PLAN
A-201B	LEVEL 1 - AREA B CEILING PLAN
A-201C	LEVEL 1 - AREA C CEILING PLAN
A-201D	LEVEL 1 - AREA D CEILING PLAN
A-201E	LEVEL 1 - AREA E CEILING PLAN
A-201F	LEVEL 1 - AREA F CEILING PLAN
A-201G	LEVEL 1 - AREA G CEILING PLAN
A-202	LEVEL 2 - OVERALL CEILING PLAN
A-202A	LEVEL 2 - AREA A CEILING PLAN
A-202B	LEVEL 2 - AREA B CEILING PLAN
A-202C	LEVEL 2 - AREA C CEILING PLAN
A-202D	LEVEL 2 - AREA D CEILING PLAN
A-202E	LEVEL 2 - AREA E CEILING PLAN
A-202F	LEVEL 2 - AREA F CEILING PLAN
A-203	LEVEL 3 - OVERALL CEILING PLAN
A-203B	LEVEL 3 - AREA B CEILING PLAN
A-203C	LEVEL 3 - AREA C CEILING PLAN
A-203D	LEVEL 3 - AREA D CEILING PLAN
A-203E	LEVEL 3 - AREA E CEILING PLAN
A-203F	LEVEL 3 - AREA F CEILING PLAN
A-203G	LEVEL 3 - AREA G CEILING PLAN
A-301	OVERALL ROOF PLAN
A-301A	ROOF PLAN - AREA A
A-301B	ROOF PLAN - AREA B
A-301C	ROOF PLAN - AREA C
A-301D	ROOF PLAN - AREA D
A-301E	ROOF PLAN - AREA E
A-301F	ROOF PLAN - AREA F
A-322	ROOF DETAILS
A-323	ROOF DETAILS
A-401	ENLARGED FLOOR PLANS
A-402	ENLARGED FLOOR PLANS
A-403	ENLARGED FLOOR PLANS
A-404	ENLARGED FLOOR PLANS
A-405	ENLARGED FLOOR PLANS
A-406	ENLARGED TOILET PLANS
A-407	ENLARGED TOILET PLANS
A-420	ENLARGED STAIR PLANS AND SECTIONS
A-421	ENLARGED STAIR PLANS AND SECTIONS
A-422	ENLARGED STAIR PLANS AND SECTIONS
A-423	ENLARGED STAIR PLANS AND SECTIONS
A-424	ENLARGED STAIR PLANS AND SECTIONS
A-425	ENLARGED STAIR PLANS AND SECTIONS
A-426	ENLARGED STAIR PLANS AND SECTIONS
A-427	ELEVATOR PLANS & SECTIONS
A-428	STAIR DETAILS
A-429	ENLARGED SKYBRIDGE ELEVATIONS & SECTIONS
A-501	OVERALL EXTERIOR ELEVATIONS
A-502	EXTERIOR ELEVATIONS
A-503	EXTERIOR ELEVATIONS
A-504	EXTERIOR ELEVATIONS
A-505	EXTERIOR ELEVATIONS
A-506	EXTERIOR ELEVATIONS - EXISTING
A-511	ENLARGED EXTERIOR ELEVATIONS
A-512	ENLARGED EXTERIOR ELEVATIONS
A-513	ENLARGED EXTERIOR ELEVATIONS
A-601	OVERALL BUILDING SECTIONS
A-602	OVERALL BUILDING SECTIONS
A-603	BUILDING SECTIONS
A-604	BUILDING SECTIONS
A-605	BUILDING SECTIONS
A-621	WALL SECTIONS
A-622	WALL SECTIONS
A-623	WALL SECTIONS
A-624	WALL SECTIONS
A-625	WALL SECTIONS
A-626	WALL SECTIONS
A-627	WALL SECTIONS
A-701	PLAN DETAILS
A-702	PLAN DETAILS
A-703	PLAN DETAILS
A-704	PLAN DETAILS
A-705	PLAN DETAILS
A-711	MASONRY WALL SECTION DETAILS
A-712	METAL PANEL WALL SECTION DETAILS
A-715	STOREFRONT SECTION DETAILS
A-717	CANOPY DETAILS
A-722	CURTAINWALL DETAILS AT MASONRY VENEER
A-723	CURTAINWALL DETAILS AT MASONRY VENEER
A-724	CURTAINWALL DETAILS AT MASONRY VENEER
A-725	CURTAINWALL DETAILS AT METAL PANEL
A-726	STOREFRONT DETAILS AT MASONRY VENEER
A-727	STOREFRONT DETAILS AT MASONRY VENEER
A-728	STOREFRONT DETAILS AT METAL PANEL
A-729	STOREFRONT DETAILS AT STONE MASONRY VENEER
A-731	CEILING DETAILS
A-801A	PARTITION TYPES
A-801B	PARTITION TYPES
A-810	DOOR SCHEDULE LEVEL 1
A-811	DOOR SCHEDULE LEVEL 2 AND 3
A-812	DOORS - PANEL & FRAME TYPES
A-821	WINDOW AND STOREFRONT ELEVATIONS
A-841	CURTAIN WALL ELEVATIONS
A-842	CURTAIN WALL ELEVATIONS
A-851	DOOR DETAILS
A-921	WALL FINISH SCHEDULE
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A-900	FINISH SCHEDULE
A-901	LEVEL 1 - OVERALL FLOOR FINISH PLAN
A-901A	LEVEL 1 - AREA A FLOOR FINISH PLAN
A-901B	LEVEL 1 - AREA B FLOOR FINISH PLAN
A-901C	LEVEL 1 - AREA C FLOOR FINISH PLAN
A-901D	LEVEL 1 - AREA D FLOOR FINISH PLAN
A-901E	LEVEL 1 - AREA E FLOOR FINISH PLAN
A-901F	LEVEL 1 - AREA F FLOOR FINISH PLAN
A-901G	LEVEL 1 - AREA G FLOOR FINISH PLAN
A-902	LEVEL 2 - OVERALL FLOOR FINISH PLAN
A-902A	LEVEL 2 - AREA A FINISH FLOOR PLAN
A-902B	LEVEL 2 - AREA B FINISH FLOOR PLAN
A-902C	LEVEL 2 - AREA C FINISH FLOOR PLAN
A-902D	LEVEL 2 - AREA D FINISH FLOOR PLAN
A-902E	LEVEL 2 - AREA E FINISH FLOOR PLAN
A-902F	LEVEL 2 - AREA F FINISH FLOOR PLAN
A-903	LEVEL 3 - OVERALL FLOOR FINISH PLAN
A-903B	LEVEL 3 - AREA B FINISH FLOOR PLAN
A-903C	LEVEL 3 - AREA C FINISH FLOOR PLAN
A-903D	LEVEL 3 - AREA D FINISH FLOOR PLAN
A-903E	LEVEL 3 - AREA E FINISH FLOOR PLAN
A-903F	LEVEL 3 - AREA F FINISH FLOOR PLAN

SHEET NUMBER	SHEET NAME DD
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A-912	INTERIOR FINISH DETAILS
A-931	INTERIOR ELEVATIONS
A-932	INTERIOR ELEVATIONS
A-933	INTERIOR ELEVATIONS
A-934	INTERIOR ELEVATIONS
A-935	INTERIOR ELEVATIONS
A-936	INTERIOR ELEVATIONS
A-941	INTERIOR ELEVATIONS
A-942	INTERIOR ELEVATIONS
A-943	INTERIOR ELEVATIONS
A-951	CASEWORK ELEVATION
A-952	CASEWORK ELEVATION
A-953	CASEWORK ELEVATION
A-954	CASEWORK ELEVATION
A-955	CASEWORK ELEVATION
A-956	CASEWORK ELEVATION
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MEPT-100	MEPT MECHANICAL YARD SITE PLAN
M-001	MECHANICAL GENERAL NOTES AND LEGENDS
MD-100	MECHANICAL DEMO SITE PLAN
MS-100	MECHANICAL SITE PLAN
MD-101HT	1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE
MD-101H	1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE
M-101A	1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
M-101B	1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-101C	1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-101D	1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-101E	1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-101F	1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-101HT	1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE
M-101H	1ST FLOOR MECHANICAL PLAN - AREA H - CTE
M-102A	2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
M-102B	2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-102C	2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-102D	2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-102E	2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-102F	2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103B	3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-103C	3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103D	3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103E	3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103F	3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103G	3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-201	ENLARGED TEMPORARY MECHANICAL PLAN
M-202	ENLARGED MECHANICAL PLAN
M-203	ENLARGED MECHANICAL PLAN
M-204	ENLARGED MECHANICAL PLAN
M-205	ENLARGED MECHANICAL PLAN
M-206	ENLARGED MECHANICAL PLAN
M-207	ENLARGED MECHANICAL PLAN
M-208	ENLARGED MECHANICAL PLAN
M-301	MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
M-501	MECHANICAL SCHEDULES
M-502	MECHANICAL SCHEDULES
M-503	MECHANICAL SCHEDULES
M-504	MECHANICAL SCHEDULES
M-601	MECHANICAL DETAILS
M-602	MECHANICAL DETAILS
M-603	MECHANICAL DETAILS
M-604	MECHANICAL DETAILS

Grand total: 44

ELECTRICAL	
E-000	ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES
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ES-101A	ELECTRICAL SITE PLAN - ENLARGED VIEWS
E-101	1ST FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
E-101A	1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-101B	1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-101C	1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101D	1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101E	1ST FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101F	1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101G	1ST FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101H	1ST FLOOR POWER PLAN - AREA H - CTE
E-102	2ND FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
E-102A	2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-102B	2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-102C	2ND FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-102D	2ND FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-102E	2ND FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-102F	2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-102G	2ND FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103	3RD FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY FLOOR PLAN
E-103B	3RD FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-103C	3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103D	3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103E	3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103F	3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103G	3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-201	1ST FLOOR LIGHTING PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
E-201A	1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-201B	1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-201C	1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-201D	1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-201E	1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-201F	1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-201G	1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202	2ND FLOOR LIGHTING PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
E-202A	2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-202B	2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-202C	2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202D	2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202E	2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202F	2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202G	2ND FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203B	3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-203C	3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203D	3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203E	3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203F	3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203G	3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301A	ELECTRICAL ROOF PLAN - AREA A NEW GYM FLOOR PLAN
E-301B	ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN
E-301C	ELECTRICAL ROOF PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301D	ELECTRICAL ROOF PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301E	ELECTRICAL ROOF PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301F	ELECTRICAL ROOF PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-401	ENLARGED ELECTRICAL PLAN
E-402	ENLARGED ELECTRICAL PLAN
E-403	ENLARGED ELECTRICAL PLAN
E-502	ELECTRICAL RISER DIAGRAM
E-601	ELECTRICAL CONTACTOR SCHEDULE
E-602	ELECTRICAL DETAILS
EP-700	ELECTRICAL PANEL SCHEDULES
EP-701	ELECTRICAL PANEL SCHEDULES
EP-702	ELECTRICAL PANEL SCHEDULES
EP-703	ELECTRICAL PANEL SCHEDULES
EP-704	ELECTRICAL PANEL SCHEDULES
EP-705	ELECTRICAL PANEL SCHEDULES
EP-706	ELECTRICAL PANEL SCHEDULES
EP-707	ELECTRICAL PANEL SCHEDULES
EP-708	ELECTRICAL PANEL SCHEDULES
EP-709	ELECTRICAL PANEL SCHEDULES
EP-710	ELECTRICAL PANEL SCHEDULES
EP-711	ELECTRICAL PANEL SCHEDULES
EP-712	ELECTRICAL PANEL SCHEDULES

Grand total: 74

SHEET NUMBER	SHEET NAME DD
PLUMBING	
P-000	PLUMBING COVER SHEET
PD-101	PLUMBING DEMO SITE PLAN
PS-101	PLUMBING SITE PLAN
PF-101	1ST FLOOR FIRE PROTECTION PLAN
PF-102	2ND FLOOR FIRE PROTECTION PLAN
PF-103	2ND FLOOR FIRE PROTECTION PLAN
PU-101A	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A NEW GYM FLOOR PLAN
PU-101B	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA B NEW GYM FLOOR PLAN
PU-101C	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
PU-101D	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
PU-101E	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
PU-101F	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
PU-101G	1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101A	1ST FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN
P-101B	1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-101C	1ST FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101D	1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101E	1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101F	1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101G	1ST FLOOR PLUMBING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101GT	1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES
P-101Ha	1ST FLOOR PLUMBING PLAN - AREA H CTE
P-102A	2ND FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN
P-102B	2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-102C	2ND FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-102D	2ND FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-102E	2ND FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-102F	2ND FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-103B	3RD FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-103C	3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-103D	3RD FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-103E	3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-103F	3RD FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-104D	MEZZANINE PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

GENERAL PROJECT INFORMATION
G-002
FOR BLUEBEAM LABELING/OCR:

0"
1"

ABBREVIATIONS AND LEGEND KEYS

REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS
REFER TO OTHER DISCIPLINES FOR ADDITIONAL ABBREVIATIONS

A	
ABV	above
ACOUS	acoustical
ACT	acoustical ceiling tile
AD	area drain
ADJ	adjustable
AFF	above finished floor
ALT	alternate
ALUM	aluminum
APPROX	approximate
ARCH	architect / architectural
B	
B.O.	bottom of
BALC	balcony
BD	board
BET	between
BLDG	building
BLKG	blocking
BLW	below
BM	beam
BOT	bottom
BRKT	bracket
BULKHD	bulkhead
BUR	built up roof
C	
C.G.	corner guard
CAB	cabinet
CALK	caulking
CDS	cabinet design series
CEM	cement
CER	ceramic
CJ	control joint
CLG	ceiling
CLOS	closet
CLR	clear
CO	cased opening
COL	column
CONC	concrete
CONT	continous
CPT	carpet
CT	ceramic tile
CTR	center
CW	curtain wall
D	
DBL	double
DET	detail
DIA	diameter
DIM	dimension
DN	down
DR	door
DS	down spout
DW	dishwasher
DWG	drawing
E	
E	east
EA	each
EIFS	exterior insulation & finish system
ELEC	electric(al)
ELEV	elevation
EMER	emergency
ENCL	enclosure
EOS	edge of slab
EQ	equal
EQUIP	equipment
ETR	existing to remain
EW	each way
EXP. JT.	expansion joint
EXST	existing
F	
F.O.	face of
FA	fire alarm
FAP	fire annunciator panel
FD	floor drain
FE	fire extinguisher
FEC	fire extinguisher cabinet
FG	finish group
FH	fire hydrant
FHC	fire hose cabinet
FIN	finish
FLR	floor
FLUOR	fluorescent
FT	foot or feet
FUR	furring
G	
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass
GND	ground
GWB	gypsum wall board
GYP	gypsum
H	
H.W.H.	hot water heater
HC	handicapped
HDWD	hardwood
HDWR	hardware
HM	hollow metal
HORIZ	horizontal
HR	hour
HT	height
I	
ID	inner diameter
INCAN	incandescent
INSUL	insulation
INT	interior
J	
JAN	janitor
JST	joist
JT	joint
L	
LAM	laminate
LAV	lavatory
LB	pound(s)
LDG	landing
LT	light
M	
MAX	maximum
MECH	mechanical
MEMB	membrane
MFR	manufacturer
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTL	metal
N	
N	north
NIC	not in contract
NO	number
NOM	nominal
NTS	not to scale
O	
O.P.	overflow pipe
OA	overall
OC	on center
OD	outside diameter
OFF	office
OH	opposite hand
OPG	opening
OPP	opposite
P	
PART	partition
PCT	porcelain tile
PERM	perimeter
PG	paint grade
PLAM	plastic laminate
PLAS	plaster
PLYWD	plywood
POLYISO	polyisocyanurate
PR	pair
PT	paint
PTD	painted
R	
R	riser
RAD	radius
RCP	reflected ceiling plan
RD	roof drain
RE:	refer
REF	refrigerator
REINF	reinforced
REQD	required
RESIL	resilient
RM	room
RO	rough opening
RTU	root top unit (mech)
S	
S	south
SAFB	sound attenunation fiber batt
SC	scupper
SCHED	schedule
SEAL	sealant
SECT	section
SF	square foot
SHT	sheet
SIM	similar
SPEC	specification
SQ	square
SS	stainless steel
STD	standard
STF	storefront
STL	steel
STOR	storage
STRUCT	structural
SUSP	suspended
SYM	symmetrical
T	
T	tread
T&G	tongue & groove
T.O.	top of
TEL	telephone
TER	terrazzo
THK	thick
THR	threshold
TYP	typical
U	
UC	undercut
UNFIN	unfinished
UNO	unless noted otherwise
UON	unless otherwise noted
UTIL	utility
V	
VCT	vinyl compostion tile
VERT	vertical
VIF	verify in field
VTR	vent termination pipe
VWC	vinyl wall covering
W	
W	west
W/	with
W/O	without
WC	watercloset
WIN	window
WP	waterproof
WS	wood, solid core
WSCT	wainscot
WT	weight
X	
XPS	extruded polystrene

PROJECT GRAPHIC REFERENCES

AA-201A

- **BUILDING NAME** (If Applicable)
- **BUILDING AREA** (If Applicable)
- **LEVEL REFERENCE**
- **SHEET SERIES TYPE**

DISCIPLINE

G	GENERAL
C	CIVIL
CA	SPORTS CIVIL
SA	SPORTS ARCH
S	STRUCTURAL
L	LANDSCAPE
D	DEMOLITION
A	ARCHITECTURAL
M	MECHANICAL
E	ELECTRICAL
P	PLUMBING
T	TECHNOLOGY
FS	FOOD SERVICE
AV	ACOUSTICAL
TH	THEATRICAL

SUBDISCIPLINE

-	*NOT USED*
S	SITE
D	DEMO
F	FURNITURE
G	GRAPHICS & SIGNAGE
Q	EQUIPMENT

0	GENERAL
1	PLANS (Site, Floor, Finish, Graphics)
2	CEILING
3	ROOF
4	ENLARGED PLANS
5	ELEVATIONS (Exterior)
6	SECTIONS (Bldg & Wall)
7	BLDG DETAILS
8	DIAGRAMS/COMPILED SCHEDULES (Partition Types, Door & Panel/Frame Types, Window Types)
9	INTERIOR FINISHES/SCHEDULES (Finish Plan, Interior Elevations, Casework/Millwork Elevations & Details, Locker Types & Details)

PROJECT GRAPHIC REFERENCES

PROJECT SYMBOLS

- PLAN NORTH / NORTH ARROW
- N — TRUE NORTH / NORTH ARROW
- WORKING POINT / LEVEL POINT / DATUM POINT / SPOT ELEVATION / TOP OF FRAMING/STEEL
- S3.C1 — FIRE RATING TYPE / PARTITION MODIFIER / STRUCTURAL CORE WIDTH / PARTITION TYPE / PARTITION TYPE TAG / (RE: PARTITION SCHEDULE)
- A299 — BLDG AREA / LEVEL / DOOR SEQUENCE / (RE: DOOR SCHEDULE)
- ROOM A299 — ROOM NAME / (RE: ROOM FINISH SCHEDULE) / ROOM SEQUENCE / LEVEL / BLDG AREA
- EXIT SIGN / DIRECTION SYMBOL
- RE: 01 / A-101B — MATCHLINE / VIEW REFERENCE
- CW1 — CURTAINWALL TAG / STOREFRONT TAG
- C01 — KEYNOTE TAG
- 101A — WINDOW & LOUVER TAG
- AB-1 — MATERIAL TAG
- 2 RE — REVISION TAG
- 101 30x34 LOCK — CASEWORK TYPE (CDS NUMBER) / SIZE (WxD)

PROJECT SYMBOLS

- ACT-1 8'-0" — CEILING TYPE / CEILING HEIGHT
- 1 A — COLUMN LINE REFERENCE
- 1 A — EXISTING/NEW COLUMN LINE REFERENCE
- 1 / A101 — DETAIL NUMBER / SHEET NUMBER / CALLOUT REFERENCE
- 1 SIM A101 — **EXTERIOR** REFERENCE / ELEVATION NUMBER / SHEET NUMBER
- 1 SIM A101 — **INTERIOR** REFERENCE / ELEVATION NUMBER / SHEET NUMBER
- 10 A7.10 SIM — REFERENCE / BUILDING SECTION REFERENCE / DETAIL NUMBER / SHEET NUMBER
- 10 A7.10 SIM — REFERENCE / WALL SECTION REFERENCE / DETAIL NUMBER / SHEET NUMBER
- CENTER LINE, & SYMBOL
- ABOVE LINE
- BEYOND LINE
- BREAK LINE

CONSTRUCTION TYPE SYMBOLS

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW NON-RATED CONSTRUCTION

MATERIAL INDICATIONS

- CONCRETE
- BRICK
- CONC. MASONRY UNITS (CMU)
- RIGID INSULATION
- BATT INSULATION
- ACOUSTICAL TILE / FABRIC PANEL
- GYPSUM BOARD
- PLASTER ON METAL LATH
- FINISH WOOD
- CONTINUOUS WOOD
- BLOCKING / SHIM
- PLYWOOD
- EARTH
- CAST STONE / SPRAY ON INSULATION / SAND / MORTAR
- STEEL
- ALUMINUM
- STONE
- GRAVEL
- SEALANT
- ROD STOCK & SEALANT

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE TO INCLUDE AIA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". CLIENT SHALL BE DESIGNATED AS "THE OWNER", PBK ARCHITECTS, INC. SHALL BE DESIGNATED AS "THE ARCHITECT". FACILITY SHALL BE DESIGNATED AS "THE LANDLORD". THE CONTRACT DOCUMENT SHALL ALSO INCLUDE THE AGREEMENT, PERFORMANCE AND PAYMENT BONDS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, THE SPECIFICATIONS, CONTRACT DRAWINGS ADDENDA, AND CONTRACT MODIFICATIONS, BUILDING RULES AND REGULATIONS & ANY OTHER DOCUMENTS REQUIRED BY THE OWNER.

B. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS REQUIRED FOR THE WORK AND FOR THE SCHEDULING OF ALL REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK.

C. CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES, ERRORS, INCONSISTENCIES OR AMBIGUITIES PRIOR TO PROCEEDING WITH THE WORK.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR, AND PROVIDE PROTECTION OF, ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED FINISHES, MATERIALS, AND EQUIPMENT AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE CLEANED AT THE COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT ALL EXISTING DAMAGES, AND PROVIDE TO THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.

E. ALL MATERIALS AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL CONSTRUCTION SHALL BE OF INDUSTRY STANDARD OR BETTER. THE ARCHITECT SHALL BE FINAL JUDGE OF QUALITY.

F. ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF STANDARD QUALITY, AND FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK, UNLESS OTHERWISE NOTED. REJECTED MATERIALS AND EQUIPMENT SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND REPLACED WITH MATERIALS AND EQUIPMENT OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED MATERIALS AND EQUIPMENT SHALL NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY OF MATERIAL AND EQUIPMENT USED NOR FROM ANY OTHER OBLIGATION IMPOSED BY THE CONTRACT.

G. DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR COORDINATION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED +/-.

H. CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT (INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS, PIPING, DUCT WORK, CONDUIT AND SPRINKLERS) AND THAT CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT ARE PROVIDED. ELEMENTS IN CONFLICT SHALL BE DOCUMENTED AND PROVIDED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

J. CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL, FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: SHOP-FABRICATED MILLWORK, CARPET LAYOUT, FLOORING, LIGHT FIXTURES, DOORS, MISC. STEEL, METAL FABRICATION, GLASS/GLAZING, SPRINKLER LAYOUTS, HARDWARE. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF 3 SETS OF PRINTS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS. MATERIAL SUBMITTALS (3 SAMPLES) SHALL BE PROVIDED FOR WOOD, FASTENERS, ACRYLIC, CARPET, TILE, BASE, PAINT, LAMINATE AND ANY OTHER MATERIALS INDICATED IN THE SHOP DRAWING.

K. CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH MANUFACTURER'S CUT SHEETS AND SPECIFICATIONS FOR ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURES, PLUMBING EQUIPMENT, ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY EQUIPMENT.

L. CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT IS EXPECTED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION. CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH, IF COMPLETED IN STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, WILL RESULT IN ADDITIONAL WORK BEYOND THE SCOPE OF THE CONTRACT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. ANY FIELD CONDITIONS THAT SIGNIFICANTLY VARY FROM THE CONTRACT DOCUMENTS OR WILL RESULT IN ADDITIONAL WORK, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

M. CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CORE DRILLING AND SLAB OPENINGS TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

N. PATCH, REPAIR, AND INSTALL ALL FIREPROOFING AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

P. WHERE BUILDING THERMAL EXPANSION JOINTS ARE LOCATED, CONTRACTOR SHALL COMPLY WITH APPLICABLE CODE AND INDUSTRY BEST PRACTICES FOR ROUTING OF ALL PIPING, DUCTS, CONDUITS AND OTHER CONTINUOUS RUNS.

Q. CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR THE GENERAL CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION.

R. FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM, APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCRIBED. FINISHED WORK SHALL HAVE NO EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.

S. ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES. THE DRAWINGS HIGHLIGHT SPECIAL CONDITIONS ONLY AND BY NO MEANS ILLUSTRATE EVERY CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING CONNECTION ACCORDINGLY.

T. CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.

U. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS AND SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE OR TO HAVE A LONG LEAD TIME, THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY WITH A PROPOSED ALTERNATIVE.

V. CONTRACTOR SHALL NOTIFY THE OWNER, THE LANDLORD, AND THE ARCHITECT IN WRITING OF ANY DEFICIENCIES IN BASE BUILDING WORK PRIOR TO THE COMMENCEMENT OF THE WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CORRECT.

W. CONTRACTOR SHALL EXERCISE INDUSTRY BEST PRACTICES FOR CARE AND CAUTION DURING THE CONSTRUCTION OF THE WORK, AND SHALL SCHEDULE WORK TO MINIMIZE DISTURBANCES TO OCCUPANTS, ADJACENT SPACES AND/OR STRUCTURES, PROPERTY, PUBLIC THOROUGHFARES, ETC. THE GENERAL CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS DURING CONSTRUCTION PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED.

X. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS FROM THE WORK PROVIDED UNDER THIS CONTRACT AND LEAVE ALL AREAS CLEAN. TRASH IS NOT PERMITTED TO BE BURNED ON SITE.

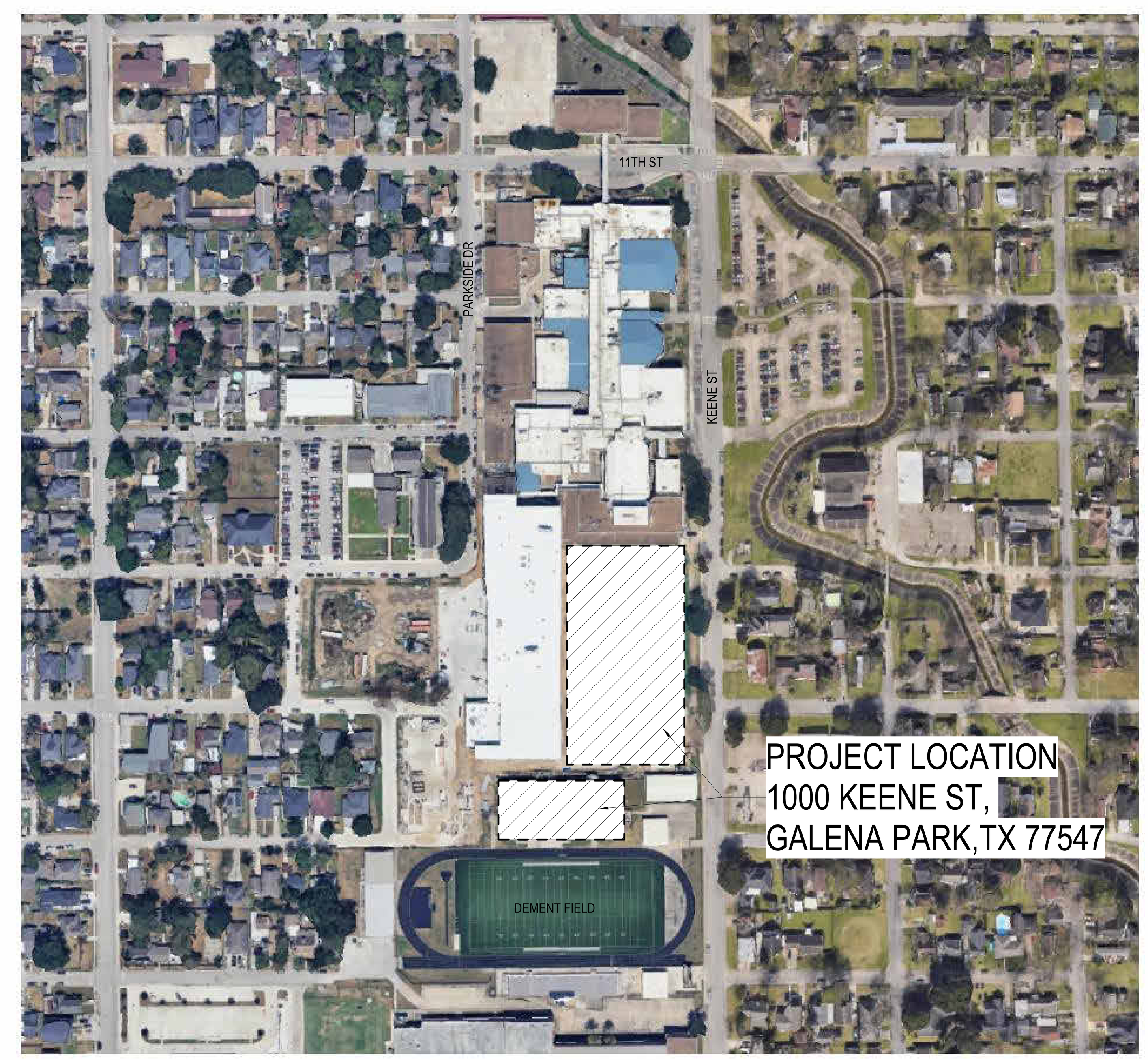
Y. ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS. REMOVE ALL ABANDONED PIPE SLEEVES IN FLOOR SLABS. PATCH EXISTING SLAB AS REQUIRED TO MAINTAIN UL FIRE RATING OF FLOOR SLAB WHERE PIPES AND CONDUITS HAVE BEEN REMOVED.

Z. SLAB PENETRATIONS SHALL BE SEALED AS REQUIRED TO MAINTAIN FIRE RATING, USING MATERIALS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. EXPANSION MATERIAL SHALL BE APPROVED BY THE ARCHITECT.

ZA. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES. REQUIRED ACCESS PANELS SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.

ZB. CONTRACTOR SHALL PROVIDE THE TEAM WITH A CONSTRUCTION SCHEDULE SHOWING THE PROPOSED PHASING. LONG LEAD ITEMS THAT WILL AFFECT THE SUBSTANTIAL COMPLETION DATE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

VICINITY MAP



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TX FIRM: BR 1608
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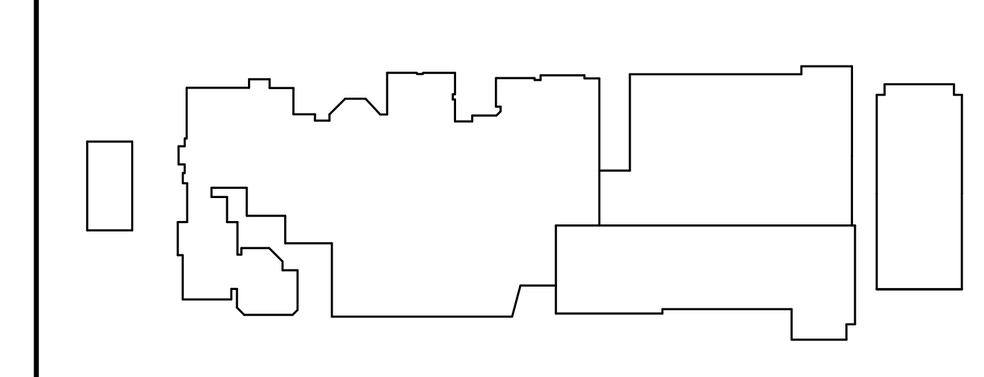
713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL



KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

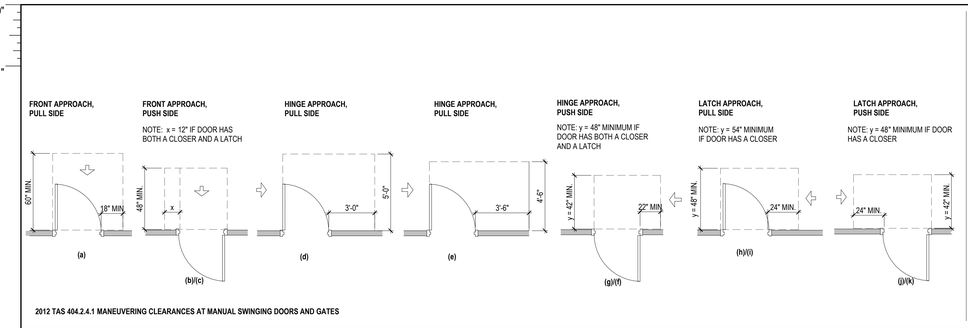
No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

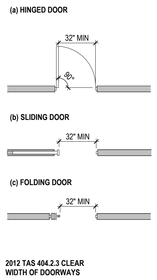
GENERAL PROJECT INFORMATION

G-002

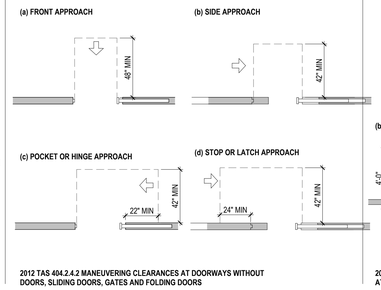
Plot Stamp:
12/5/2025 3:16:28 PM



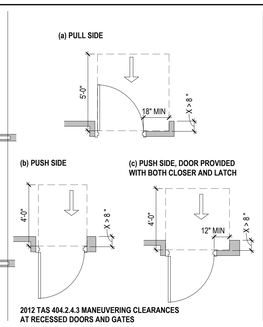
2012 TAS 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



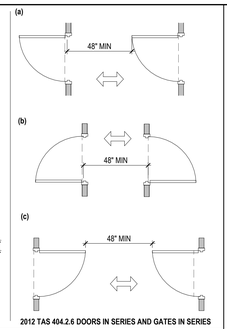
2012 TAS 404.2.3 CLEAR WIDTH OF DOORWAYS



2012 TAS 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS

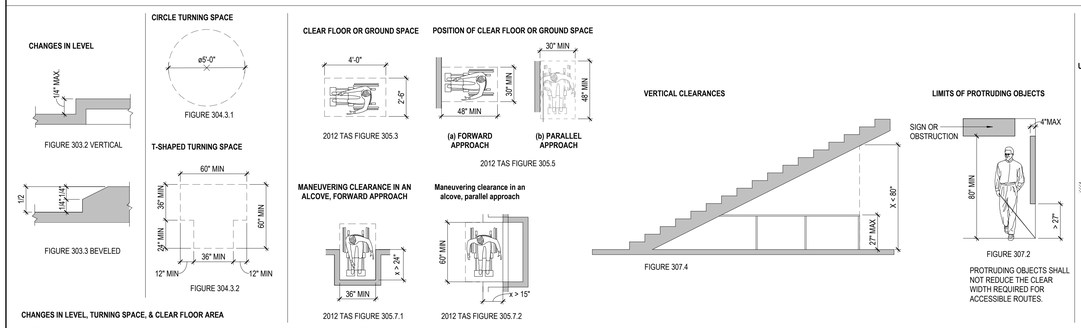


2012 TAS 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

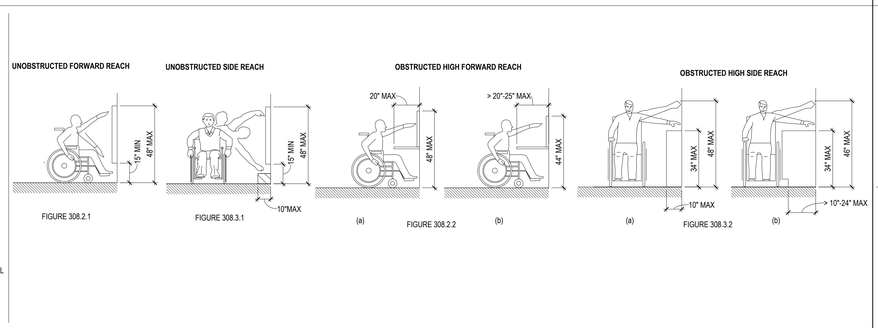


2012 TAS 404.2.6 DOORS IN SERIES AND GATES IN SERIES

ACCESSIBLE ROUTES & DOOR APPROACH CLEARANCES

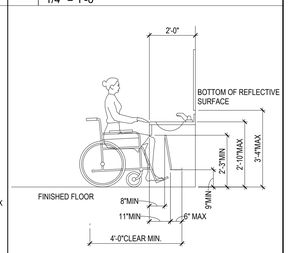


CHANGES IN LEVEL, TURNING SPACE, & CLEAR FLOOR AREA



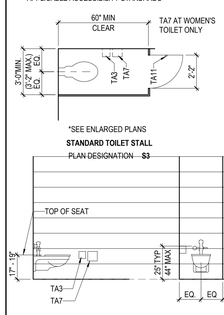
11 TEXAS ACCESSIBILITY STANDARDS
1/4" = 1'-0"

12 DOOR CLEARANCE
1/4" = 1'-0"

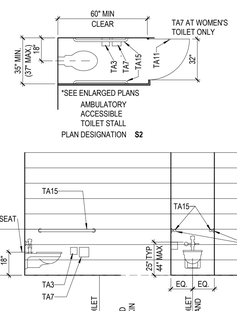


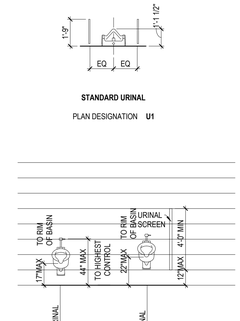
10 ACCESSIBLE VANITY
3/8" = 1'-0"

NOTE: ALL FIXTURE SIZES , MOUNTING HEIGHTS, AND CLEARANCES MUST ABIDE BY ALL APPLICABLE ACCESSIBILITY STANDARDS

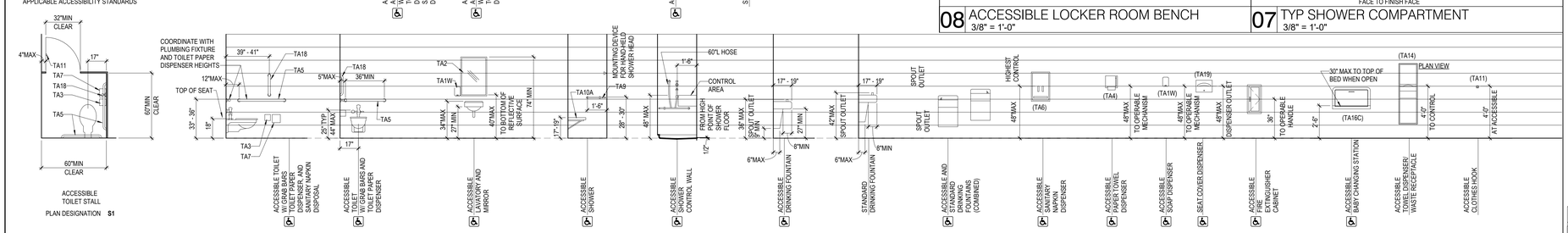


NOTE: ALL FIXTURE SIZES , MOUNTING HEIGHTS, AND CLEARANCES MUST ABIDE BY ALL APPLICABLE ACCESSIBILITY STANDARDS

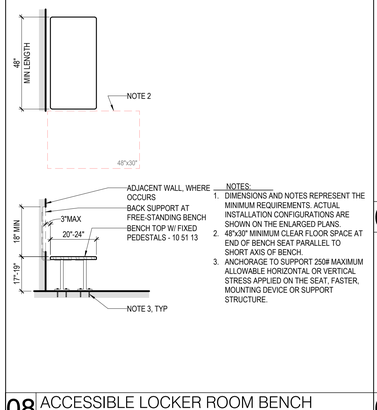




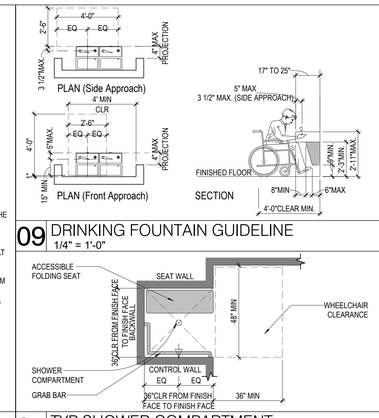
NOTE: ALL FIXTURE SIZES , MOUNTING HEIGHTS, AND CLEARANCES MUST ABIDE BY ALL APPLICABLE ACCESSIBILITY STANDARDS



06 ACCESSIBILITY - AGES 13 THRU ADULT (GRADES 8 AND ABOVE)
1/4" = 1'-0"



08 ACCESSIBLE LOCKER ROOM BENCH
3/8" = 1'-0"



07 TYP SHOWER COMPARTMENT
3/8" = 1'-0"

09 DRINKING FOUNTAIN GUIDELINE
1/4" = 1'-0"

GENERAL ACCESSIBILITY GUIDELINES NOTES

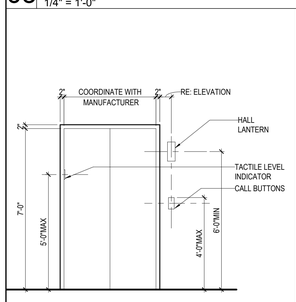
1. VERIFY AND INSTALL ALL ACCESSORIES AT HEIGHTS TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS. IN THE EVENT OF CONFLICT BETWEEN DATA SHOWN ON ELEVATIONS AND DATA PROVIDED ON THIS SHEET, THIS SHEET SHALL GOVERN THE DETAILS AND TAKE PRECEDENCE OVER DATA ON ELEVATIONS.
2. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE: FIVE POUNDS MAXIMUM FOR INTERIOR HINGED DOORS AND GATES. FIVE POUNDS MAXIMUM FOR SLIDING OR FOLDING DOORS.
3. PRIOR TO INSTALLATION OF ANY OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) ITEMS, THE CONTRACTOR SHALL REQUEST CUTSHEETS FROM OWNER TO CONFIRM DIMENSIONS WITH ARCHITECT.

DESCRIPTION	Ages: 13 - Adult (Grades 8 and Above)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 36"
Flush Control Height	25" TYP. 44" MAX
URINAL: Max. To Rim of Basin	17"
Flush Control Height (Max)	44"
LAVATORIES: Front Approach	
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	25"
FIXED OR BUILT-IN:	
Height of Tables or Counter:	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS:	
To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface	
At Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"
SHOWER	
Top of Seat	17" - 19"
Grab Bar	33" - 36"
To Hand Shower Head Mounting (Max)	48"

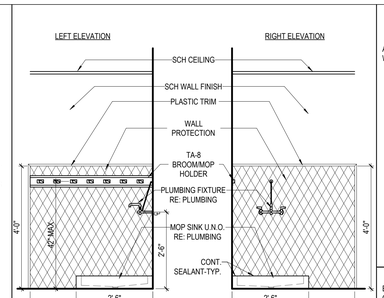
TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
TA1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL , OFCI	
TA2	LAVATORY MIRROR, TYPICAL	NOTE 5
TA2F	FULL-LENGTH MIRROR	
TA3	TOILET PAPER DISPENSER, TYPICAL , OFCI	
TA4	PAPER TOWEL DISPENSER, TYPICAL , OFCI	
TA5	GRAB BARS, AT WHEELCHAIR ACCESSIBLE WATERCLOSET,	
TA6	SANITARY NAPKIN/TAMPON VENDOR, TYPICAL	
TA7	SANITARY NAPKIN DISPOSAL, TYPICAL	
TA8	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS, TYPICAL	
TA9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL	
TA10A	FOLDING BENCH, ADULT HEIGHT	
TA11	CLOTHING HOOK, TYPICAL	NOTE 6
TA12	SHOWER CURTAINS, RODS AND HOOKS, TYPICAL	
TA15	GRAB BARS, AT AMBULATORY WATERCLOSET	
TA16C	BABY CHANGING STATION	
TA16A	ADULT CHANGING STATION	
TA17R	TRASH RECEPTACLE, RECESSED	
TA17U	TRASH RECEPTACLE, UNDERCOUNTER	
TA18	VERTICAL GRAB BAR (AT ACCESSIBLE ICC A117.1 TOILETS)	
TA19	WATERCLOSET SEAT COVER DISPENSER	
TA20	FOLDING UTILITY SHELF	

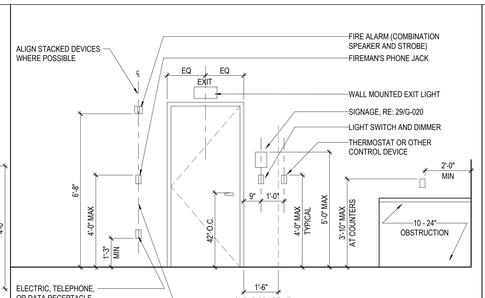
NOTES:
1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY.
6. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER.
7. ALL SHOWERS WALLS TO RECEIVE TILE FINISH TO CEILING. DIMENSIONS AT SHOWER WALLS ARE TO FACE OF TILE.



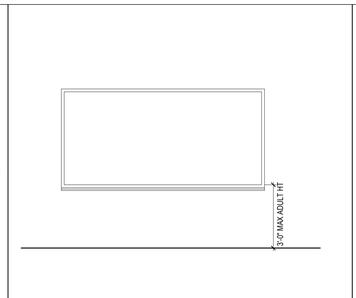
05 TYP ELEVATOR DOOR
3/8" = 1'-0"



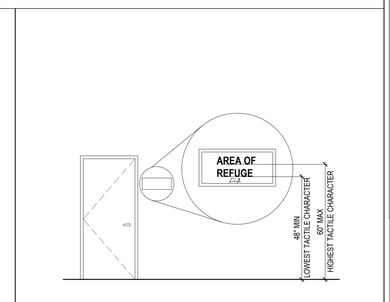
04 TYP CUSTODIAL CLOSET
1/2" = 1'-0"



03 MISC MOUNTING HEIGHTS
3/8" = 1'-0"



02 TYP. MARKERBOARD MOUNTING HEIGHT
3/8" = 1'-0"



01 SIGNAGE WITH TACTILE MOUNTING HEIGHT
3/8" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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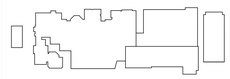


KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

TEXAS ACCESSIBILITY STANDARDS

G-021

PM

FIRE RATED ASSEMBLIES

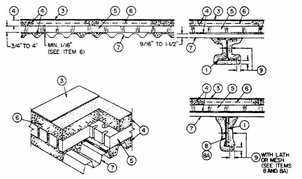
G-030

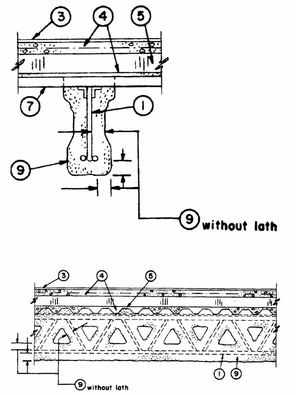
FOR BLUEBEAM LABELING/OCR:

0"

1"

Design No. P921
Restrained Assembly Rating—1, 1 1/2 or 2 Hr (See Items 4, 6, 7 and 9)
Unrestrained Assembly Rating—0 Hr (See Item 7)
Unrestrained Beam Rating—1, 1 1/2 or 2 Hr (See Items 4, 6, 7 and 9)





1. **Supports**—W6X16 or W8X10 beam. As alternate to steel beams, Joist girders—(Not shown)—20 in. min depth and 13 lb/lin ft min weight.

1A. **Steel Joists**—12K5 or heavier steel joist may be used as secondary support.

2. **Bridging Angles**—(Not shown)—1-1/4 by 1-1/4 by 1/8 in. thick angles for use with steel joists. Angles welded to top and bottom chords of the joists.

3. **Roof Covering***—Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

3A. In lieu of Item 3, roof covering consisting of single-ply **Roofing Membrane*** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory—Roofing Membranes (CHCI).

4. **Vermiculite Concrete**—6 cu ft of **Vermiculite Aggregate*** to 94 lb of Portland cement and 0.11 lb of air entraining agent mixed with approx 25 gal of water. Min compressive strength shall be 125 psi when tested in accordance with ASTM C495. Min thickness above foamed plastic is 2 in. Min thickness between top of steel deck and bottom of foamed plastic shall be 1/16 in. when wire mesh (Item 6) is used and 1/8 in. when the wire mesh is not used. When foamed plastic (Item No. 5 or 5A) is not used the topping thickness of Vermiculite Concrete over the crests of steel deck shall be a min of 2-3/16 in. for the 1 and 1-1/2 h ratings and 2-3/8 in. for the 2 h rating. The max vermiculite concrete thickness shall be determined by job site conditions.
Mandoval Ltd.
Mandoval Vermiculite Products, Inc.
Palmetto Vermiculite Co., Inc.
Siplast Inc.
Strong-Lite Products Corp.
Vermiculite Products, Inc.

4A. **As an alternate to Item 4, Cellular Concrete —Roof Topping Mixture***—Foam concentrate mixed with water and Portland cement per manufacturer's specifications. Cast dry density and 28-day compressive strength of min 190 psi as determined in accordance with ASTM C495-66. Min thickness above foamed plastic is 2 in. Min thickness between the top of steel deck and the bottom of foamed plastic shall be 1/8 in. When foamed plastic is not used, the min thickness of Roof Topping Mixture* above the top of the steel deck shall be 2-3/4 in.
Celcore Inc.—Cast dry density of 31 (+ or -) 3.0 pcf.
Celliofoam Concrete Systems—Cast dry density of 30 (+ or - 3.0) pcf.
Elasticell Corp. of America—Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.
Lite-Crete, Inc.—Cast dry density of 29 (+ or -) 3.0 pcf.
Mearl Corp., The—Cast dry density 37 (+ or -) 3.0 pcf.
Siplast Inc.—Mix #2. Cast dry density of 36 (+ or -) 3.0 pcf.

4B. **As an alternate to Item 4**—Perlite Concrete—Mix consists of 6 cu ft of **Perlite Aggregate*** to 94 lb of Portland cement and 1-1/2 pints of air-entraining agent. Thickness of perlite concrete topping to be 2 in. min from the top plane of the foamed plastic. Min thickness between the top of steel deck and the bottom of the foamed plastic shall be 1/8 in.
See Perlite Aggregate (CFFX) category in Fire Resistance Directory for names of Classified companies.

4C. **As an alternate to Item 4**—Cellular Concrete—Roof Topping Mixture*—Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86. A 1/8 in. min slurry coat shall be employed below the foamed plastic (Item 5). The cellular concrete topping thickness, above the foamed plastic, shall be 2 in. min. When foamed plastic is not used, the min thickness of Roof-Topping Mixture, above the top of the steel deck, shall be 2-3/4 in.
Siplast Inc.—Mix #3.
The Mearl Corp.—Mix #3.

5. **Foamed Plastic***—(Optional)—Foamed plastic insulation boards with holes and/or slots. Nom size 24 by 48 in. Thickness shall be 3/4 in. to 8 in.
Siplast Inc.
Vermiculite Products, Inc.

5A. **Foamed Plastic***—Nom 24 by 48 in., 48 by 48 in. or 30 by 60 in. by max 8 in. thick polystyrene foamed plastic insulation boards with holes symetrically placed having a max density of 2.0 pcf. For use only with cellular concrete roof topping mixture.
Starrfoam Manufacturing, Inc.

5B. **Foamed Plastic***(Optional)—Nom 24 x 48 by max 8 in. thick polystyrene foamed plastic insulation boards having a density of 2.5 pcf max. Each insulation board shall contain six nom 3 in. diam holes oriented in two rows of three holes each, with the holes spaced 12 in. OC transversely and 16 in. OC longitudinally.
See Foamed Plastic* (BRYX) category in the Building Materials Directory or Foamed Plastic* (CCVW) category in Fire Resistance Directory for list of Classified Companies.

6. **Wire Mesh**—No. 19 SWG galv steel wire twisted to form 2 in. hexagons. In addition, straight No. 16 SWG galv steel wire woven into mesh and spaced 3 in. apart for stiffness. Mesh installed without attachment perpendicular to supports and overlapped 6 in. at the sides. As an alternate, 4 by 8 in., No. 12/14 SWG or 2 by 2 in., No. 14/14 SWG welded wire fabric may be used. The wire mesh may be omitted for the **1 and 1-1/2 h Restrained Assembly and Beam Ratings** only. Thickness of vermiculite concrete between the top of the roof deck and the bottom of the foamed plastic insulation shall be 1/8 in. min when wire mesh is not used.

7. **Steel Roof Deck**—(Unclassified)—Noncomposite design, vented or nonvented units, 9/16 in., 15/16 in., 1-5/16 in., 1-1/2 or 2 in. deep galv units, nom 24 to 36 in. wide. When vented or nonvented 9/16 in. deep galv units are used, the **Restrained Assembly and Beam Ratings shall not exceed 1-1/2 h.** Welded to supports with 3/8 in. puddle welds through weld washers spaced 15 in. O. C. Adjacent units overlapped one corrugation. Max support spacings 8 ft 0 in. C. unless otherwise noted for specific Classified units and their recommended loadings. Steel thickness to be No. 24 MSG min when supports are spaced not more than 8 ft 0. C., No. 26 MSG min when supports are spaced not more than 6 ft 0. C., and No. 28 MSG, 9/16 in. deep steel deck may be used when supports are spaced 4 ft. 0. C. Roof deck units to be loaded not more than 75 percent of their max allowable bending stress. For clear spans not more than 7 ft., 8-3/8 in. the **Unrestrained Assembly Rating is equal to the Restrained Assembly Rating.** Or, **Classified Steel Floor and Form Units*** conforming to the same installation, steel thickness, loading requirements and **Restrained Assembly Rating** as described for unclassified units.
BHP Steel Building Products USA Inc.—Types CP32, (1-3/8), B, Ventform and 2W. Two or three—10 ft—0 in. continuous spans may be used for Types B or 2W units, and 12 ft—0 in. simple or continuous spans may be used for Type N units, provided that the total loading on these spans is based on the allowable steel stress and the deflection limitation criteria using the steel (noncomposite) section properties of these units.
Bowman Metal Deck/Wheeling Corrugating Co. Div of Wheeling-Pittsburgh Steel Corp.—Nonvented Types B, FM-2, Strongfoam SF-3, SF-4, SF-5; vented Types B, FM-2, SV-3, SV-4, SV-5. Types SF-4/SV-4 units may be used for a max 10 ft, 0 in. spans. Types SF-5/SV-5 units made from 24 MSG steel may be used for a max 10 ft, 6 in. spans. Types SF-5/SV-5 units made from 22 ga or heavier steel may be used for max 12 ft, 0 in. spans.
Consolidated Systems, Inc.—Consoliform and Convent Types EHD, HD, S, SD. -Media-Dek Type 1 (vented and nonvented) and Media-Dek Type 2, Type R.
Deck West, Inc.—36 in. wide Type B-DW, BA-DW or 3-DW. The Type 3-DW units made from 22 ga or heavier steel may be used for a maximum 10 ft., 0 in. spans, provided that the total loading on these spans is based on the allowable steel stresses and the deflection limitation criteria using the steel (noncomposite) section properties of these units.
Epic Metals Corp.—Type Metricform.
Marlyn Steel Decks, Inc.—Types B, BV, EF, EVF, F, HF, HVF, SF, SVF.
Robertson, H. H.—Type QL-3 or Sec. 3 with or without up-punched integral hanger tabs, and 3 in. QL-99. The 3 in. deep Type QL-99 units made from 22 ga or heavier steel may be used for max 10 ft, 0 in. spans, provided the total loading on these spans is based on the allowable steel stresses and the deflection limitation criteria using the steel (noncomposite) section properties of these units.
Roll Form Products, Inc.—"Permaform" Type H.
Roof Deck, Inc.—Vented or Nonvented Types EHD Multi-Rib, HD Multi-Rib, S Multi-Rib.
Toman Building Components Inc. —24, 30 or 36 in. wide, Types LXR-B; 30 in. wide, Types LXR-B-N-30 and LXR-B-N-30-I; 35 in. wide, Types LXR-B-35 and LXR-B-35-I.
United Steel Deck, Inc.—Types B, UFX, UFXV, UFX-36, UFXV-36.
Verco Manufacturing Inc.—Types B, 2"B, 2"B Ventlok, Vercor, Vercor-Ventlok, W-2, System 80 and N. Iwo or three 10 ft 0 in. continuous spans may be used for the following units under the following conditions: (A) For Types B and W-2 units the total loading on these spans shall be based on the allowable steel stress or the deflection limitation criteria using the steel (noncomposite) section properties of these units. (B) For System 80 the min gauge of units is 18 MSG and use is limited to three continuous spans. (C) For 2"B and 2"B Ventlok the total loading on these spans shall be limited to 80 percent of the allowable steel bending stress, or the deflection limitation criteria.

Type N deck may be used on simple or continuous 12 ft 0 in. spans with the total loading on these spans limited by the allowable bending stress and/or the deflection limitation criteria.
Vulcraft, Div. of Nucor Corp.—Types 0.6C, 0.6CPR, 0.6CPRV, 0.6CSV, 1.0C, 1.0CSV, 1.3C, 1.3CSV, 1.5C, 2C, 3C, 1.5B, 1.5BI, 3N, 3NI. Type 1.5B units made from 21MSG or heavier steel may be used on simple or continuous 10 ft 0 in. spans with the total load on these spans limited by the allowable bending stress and/or the deflection criteria of this deck. Type 3N made from 22MSG or heavier steel may be used on simple or continuous 12 ft 0 in. spans with the total load on these spans limited by the allowable bending stress and/or the deflection criteria of this deck.
Wheeling Corrugating Co., Div of Wheeling-Pittsburgh Steel Corp.—Types B, BW, F, TF-50, TF-75, TF-125, TF-H3, TV-50, TV-75, TV-125, TV-H3.,Permaform Type H.

8. **Metal Lath**—(Optional)—Metal lath is used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joists and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd, is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive Materials with no min thickness requirements.

8A. **Non-Metallic Fabric Mesh**—(Optional)—As an alternate to metal lath, glass fiber fabric mesh, weighing approximately 2.5 oz per sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz per sq yd or equivalent, is used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied Spray-Applied Fire Resistive Materials material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in minimum 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a maximum of 12 in. O.C. along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

9. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in more than one coat to the final thickness shown below to joist or beam surfaces which are clean, free of dirt, loose scale and oil. A 1-3/4 in. thickness of Spray-Applied Fire Resistive Materials shall be applied to the bridging bars. Min avg and min ind density of 15/14 pcf respectively. For method of density determination refer to Design Information Section.

Restrained Assembly Rating, HR	Unrestrained Beam Rating, HR	Thickness (In.) Min Tkns on Beam W6X16	W8X10	Min Tkns on Joist (No. Lath)	Min Tkns on Joist (with Lath)
1	1	1	1-3/8	1-1/2+	1-1/2+
1-1/2	1-1/2	1-1/4	1-3/4	2-1/4	1-3/4
2	1-1/2	1-3/8	1-7/8	2-1/4	1-3/4
2	2	1-5/8	2-1/4	2-7/16	1-7/8

Construction Products Div., W. R. Grace & Co. of Canada Ltd.—Type MK-5.
Grace Construction Products—Types MK-4, MK-5, MK-6/HY, MK-6S, RG
Grace Korea Inc.—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6S
Pyrok Inc.—Type LD.
Southwest Vermiculite Co., Inc.—Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
Vermiculite Prods., Inc.—Types MK-5, VP5.
+For 1 Hr ratings, the min joist size shall be 14J7.

9A. **Spray-Applied Fire Resistive Materials***—(Not Shown) —In lieu of Item 9 the following Spray-Applied Fire Resistive Materials may be applied by mixing with water and spraying in multiple coats to final thicknesses shown below. Min avg and min ind density 19/18 pcf respectively for Types 7GP, 10S. Min avg and min ind density of 22/19 pcf respectively for Types KM-601, Z-106. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating, Hr.	Unrestrained Beam Rating, Hr.	Min Tkns on Beam, in W6X16	W8X10
1	1	1-1/16	1-1/2
1-1/2	1-1/2	1-3/8	1-15/16
2	1-1/2	1-1/2	2-1/16
2	2	1-13/16	2-9/16

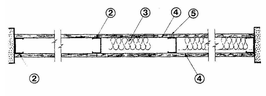
Grace Construction Products—Types 10S, KM-601, Z-106.
Grace Korea Inc.—Type Z-106.
Southwest Vermiculite Co., Inc.—Type 7GP.

9B. **Spray-Applied Fire Resistive Materials***—(Not Shown) —In lieu of Item 9 or 9A the following Spray-Applied Fire Resistive Materials may be applied by mixing with water and spraying in multiple coats to final thicknesses shown below. Min avg and min ind density 40/36 pcf respectively. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating, Hr.	Unrestrained Beam Rating, Hr.	Min Tkns on Beam, in W6X16	W8X10
1	1	1-1/16	1-1/2
1-1/2	1-1/2	1-3/8	1-15/16
2	1-1/2	1-1/2	2-1/16
2	2	1-13/16	2-9/16

02 UL DESIGN NO. P921
12" = 1'-0"

Design No. U465
Nonbearing Wall Rating—1 HR.



1. **Floor and Ceiling Runners**—(not shown)—Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from No. 25 MSG (min) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
2. **Steel Studs**—Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from No. 25 MSG (min) galv steel spaced 24 in. OC max.
3. **Batts and Blankets***—(Optional)—Mineral wool or glass fiber batts partially or completely filling stud cavity.
See Batts and Blankets (BZJZ) category for names of Classified companies.
4. **Wallboard, Gypsum***—5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S self-tapping steel screws spaced 8 in. OC along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Item 6 (furring channels), wallboard is screw attached to furring channels with 1 in. long, type S steel screws spaced 12 in. OC.
American Gypsum Co.—Type AG-C.
Boral Gypsum Inc.—Type BG-C.
Canadian Gypsum Company—Types AR, C, IP-X2, SCX, SHX, WRC or WRX.
Continental Gypsum Company—Types CG-C, CGS-5, CG6-6, CG9-9, CGT-C.
G-P Gypsum Corp.—Types 5, 9, C, GPF56.
Lafarge Gypsum, A Div. of Lafarge Corp.—Types LGFC6, LGFC-C.
National Gypsum Co., Charlotte, NC—Type FSK-G, FSW-G.
National Gypsum Co., Riyadh, Saudi Arabia—Type FR or WR.
Pabco Gypsum Co.—Type PG-C.
Republic Gypsum Co.—Type RG-C.
Standard Gypsum Corp.—Type SG-C.
Temple-Inland Forest Products Corp.—Type TG-C.
United States Gypsum Co.—Type AR, C, IP-X2, SCX, SHX, WRC or WRX.
Yeso Panamericano SA de CV—Type AR, C, IP-X2, SCX, SHX, WRC or WRX.
Westroc Inc.—Type Westroc Fireboard.

4A. **Wallboard, Gypsum***—(As an alternate to Item 4)—Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4 with screw length increased to 1-1/4 in.
Canadian Gypsum Company—Type AR.
United States Gypsum Co.—Type AR.
Yeso Panamericano SA de CV—Type AR.

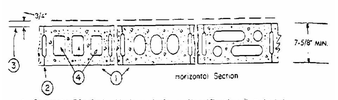
4B. **Wallboard, Gypsum***—(As an alternate to Items 4 and 4A) —5/8 in. thick installed as described in Item 4. Joint covering (Item 5) not required.
Canadian Gypsum Company—Type WSX.
United States Gypsum Co.—Type WSX.
Yeso Panamericano SA de CV—Type WSX.

5. **Joint Tape and Compound**—Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster. Joints reinforced.
6. **Furring Channel**—(Optional-Not Shown)—Resilient 25 MSG galv steel furring channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 panhead steel screws.

*Bearing the UL Classification Marking

06 UL DESIGN NO. U465
12" = 1'-0"

Design No. U905
Bearing Wall Rating—2 HR.
Nonbearing Wall Rating—2 HR

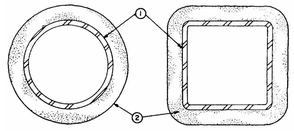


1. **Concrete Blocks***—Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.
2. **Mortar**—Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster**—Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
4. **Loose Masonry Fill**—If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
5. **Foamed Plastic***—(Optional-Not Shown)—1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
Celotex Corp.—Type Thermax

*Bearing the UL Classification Marking

05 UL DESIGN NO. U905
12" = 1'-0"

Design No. X771
Ratings—3/4, 1, 1-1/2, 2, 3 and 4 h



1. **Steel Pipe or Tube Column**—Steel circular pipe with diameter (OD) ranging from a minimum of 3 in. to a maximum of 32 in. with a minimum wall thickness of 3/16 in.
Steel square or rectangular tube with outside wall dimensions ranging from a minimum 3 in. to a maximum of 32 in. and a minimum wall thickness of 3/16 in.
The A/P ratio of the steel pipe or tube (see Item 2) shall range from 0.18 to 2.0.
2. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in one or more coats to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and ind density of 15/14 pcf respectively. For method of density determination, see Design Information Section, preceding these designs.
The hourly rating of the structural member is dependent upon the ratio of A/P and the thickness of Spray-Applied Fire Resistive Materials, where A is the cross sectional area of the pipe or tube and P is the heated perimeter.
The A/P ratio of a circular pipe is determined by:

$$\text{A/P pipe} = \frac{t(d-t)}{}$$

Where:
d is the outer diameter of the pipe (in.)
t is the wall thickness of the pipe (in.)
The A/P ratio of a rectangular or square tube is determined by:

$$\text{A/P tube} = \frac{t(a+b-2t)}{a+b}$$

Where:
a is the outer width of the tube (in.)
b is the outer length of the tube (in.)
t is the wall thickness of the tube (in.)
The thickness of Spray-Applied Fire Resistive Materials for ratings of 3/4, 1, 1-1/2, 2, 3 and 4 h of a steel pipe or tube can be determined by the equation:

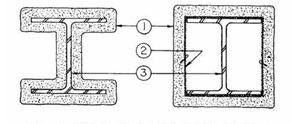
$$h = \frac{R - 0.20}{4.43\ (A/P)}$$

Where:
R is the hourly rating (hrs).
h is the thickness of Spray-Applied Fire Resistive Materials, minimum 1/4 in., maximum 3-7/8 in.
Construction Products Div. W. R. Grace & Co. of Canada Ltd.—Types MK-4, MK-5.
Grace Construction Products—Types MK-4, MK-5, MK-6/HY, MK-6S, RG.
Grace Korea Inc.—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6S.
Pyrok Inc.—Type LD.
Southwest Vermiculite Co., Inc.—Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
Vermiculite Prods. Inc.—Types MK-4, MK-5.

*Bearing the UL Classification Marking

04 UL DESIGN NO. X771
12" = 1'-0"

Design No. X772
Ratings—1, 1-1/2, 2, 3 and 4 h.



1. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in more than one coat to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min avg and min ind density of 15/14 pcf respectively. For method of density determination, see Design Information Section, Sprayed Material.
The thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the column (Item 1) required for rating periods of 1 h, 1-1/2 h, 2 h, 3 h, 4 h may be determined by the equation:

$$h = \frac{R}{1.05\ (W/D) + 0.61}$$

Where:
h = Spray-Applied Fire Resistive Materials thickness in the range 0.25-3.875 in.
R = Fire resistance rating in hours (1 - 4 h)
D = Heated perimeter of steel column in inches
W = Weight of steel column in lbs per foot
W/D = 0.33 to 6.62

As an alternate to the equation, the minimum thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed columns may be determined from the table below:

Min Column Size	W/D	Min Thk (in) 1 h	1-1/2 h	2 h	3 h	4 h
W6X9	0.33	1-1/8	1-1/2	2	2-1/2	3-1/8
W6x16	0.57	13/16	1-1/4	1-13/16	2-1/2	3-5/16
W8x28	0.67	3/4	1-3/16	1-3/8	2	2-11/16
W10x49	0.83	11/16	7/8	1-1/8	1-11/16	2-1/2
W14x228	2.49	5/16	1/2	9/16	7/8	1-1/4
W14x730	6.62	5/16	5/16	5/16	3/8	9/16

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to columns' flange tips are reduced to one-half that shown in the table below:

Min Column Size	W/D	Min Thk (in) 1 h	1-1/2 h	2 h	3 h	4 h
W6x9	0.33	1-1/8	1-5/8	2-1/16	2-15/16	3-13/16
W6x16	0.57	7/8	1-5/16	1-3/4	2-9/16	3-3/8
W8x28	0.67	13/16	1-3/16	1-1/2	2-1/4	2-15/16
W10x49	0.83	3/4	1-1/16	1-3/8	2-1/16	2-3/4
W14x233	2.49	5/16	1/2	11/16	1-3/16	1-5/8
W14x730	6.62	5/16	5/16	5/16	9/16	3/4

Construction Products Div., W. R. Grace & Co. of Canada Ltd.—Types MK-4 or MK-5.
Grace Construction Products—Types MK-4, MK-5, MK-6/HY, MK-6S, RG.
Grace Korea Inc.—Type MK-5.
Pyrok Inc.—Type LD.
Southwest Vermiculite Co., Inc.—Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
Vermiculite Products, Inc.—Type MK-4 or MK-5.

2. **Metal Lath**—(Optional for contour application)—3.4 lb/sq yd galvanized or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galvanized steel; wire spaced vertically 6 in. O.C.
3. **Steel Column**—Wide flange steel column, min sizes as shown in the tables below.

*Bearing the UL Classification Marking

03 UL DESIGN NO. X772
12" = 1'-0"

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HOUSTON, TX
713.965.0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

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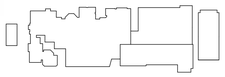
Galena Park, TX 77547

Galena Park ISD
EXCELLENCE IN ALL FOR ALL OF US

KEY PLAN
NORTH: PLAN = TRUE





CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

FIRE RATED ASSEMBLIES

G-030

Plot Stamp:
12/5/2025 3:16:33 PM

3	1-1/2	9/16	3/4
3	3	7/8	1-5/16

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	LH Joist	Joist Thickness 10K1 more than 4 ft OC	10K1 less than 4 ft OC
1	1	1	1-1/8	1-1/8	15/16
1-1/2	1	1	1-5/16	1-5/16	1-1/16
1-1/2	1-1/2	1-1/2	1-5/8	1-7/16	1-1/4
2	1	1	1-7/16	1-7/16	1-3/16
2	2	2	1-7/16	1-7/16	1-1/2
3	1-1/2	1-1/2	1-7/16	1-7/16	1-1/2
3	3	3	1-7/16	1-7/16	1-1/2

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Joist Thickness 10K1 more than 4 ft OC	10K1 less than 4 ft OC	16K2 more than 4 ft OC	16K2 less than 4 ft OC
1	1	1	1-1/8	1-1/8	15/16	15/16
1-1/2	1	1	1-5/16	1-5/16	1-1/4	1-3/16
1-1/2	1-1/2	1-1/2	1-5/8	1-7/16	1-1/4	1-3/16
2	1	1	1-7/16	1-7/16	1-9/16	1-1/2
2	2	2	1-1/2	2-3/16	1-9/16	1-1/2
3	1-1/2	1-1/2	1-1/2	3-1/4	2-13/16	2-1/8
3	3	3	3-1/4	3-1/4	2-13/16	2-1/8

ARABIAN VERMICULITE INDUSTRIES — Types K-6/CBF, MK-6/ED, MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s.

GCP APPLIED TECHNOLOGIES INC — Types MK-6 GF, MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, RG .

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6 GF, MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s.

5A. **Spray-Applied Fire Resistive Materials***— Applied by mixing with water and spraying in more than one coat to a final thickness as shown below to steel surfaces which must be free of dirt, loose scale and oil. Min avg and min ind density of 22/19 pcf, respectively for Types Z-106, Z-106/HY and Z-106/G . Min avg and min ind density of 40/36 pcf, respectively for Z-146. Application to steel deck requires the installation of expanded metal lath with Type Z-146 . See Item 6B. For method of density determination, see Design Information Section, Sprayed Materials.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	on Deck	on Beam
1	1	1	7/16	7/16
1-1/2	1	1	9/16	7/16
1-1/2	1-1/2	1-1/2	9/16	3/4
2	1	1	9/16	7/16
2	2	2	5/8	1

angles and 0.442 square in. for web. Designed in accordance with SJI Specifications for K-Series joists as revised to November 18, 1989.

4C. **Structural Steel Members*** — (Not shown) — As an alternate to Items 4, 4A and 4B — (Not shown) — Composite joists with top chord embedded in concrete slab. Welded to end supports. Min area of joist members shall be 0.708 square in. for top and bottom chord angles and 0.442 square in. for web.
VESCOM STRUCTURAL SYSTEMS INC — Type V.

4D. **Steel Beams** — W8x28 min size. As an alternate to steel joists, Items 4, 4A, 4B and 4C.

4E. **Horizontal Bridging** — (Not shown) — Min 1-1/4 by 1-1/4 by 1/8 in. thick steel angles for use with noncomposite joists (Item 4). Number and spacing per Steel Joist Institute specifications. Welded to top and bottom chord of the joists. Min thickness of Spray-Applied Fire Resistive Materials on bridging angles is 1-1/2 in.

5. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in no more than one coat to a final thickness as shown below to steel surfaces which must be free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf, respectively. For method of density determination, see Design Information Section, Sprayed Materials.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	on Deck	on Beam
1	1	1	3/8	7/16
1-1/2	1	1	1/2	7/16
1-1/2	1-1/2	1-1/2	1/2	3/4
2	1	1	1/2	7/16
2	2	2	5/8	1
3	1-1/2	1-1/2	1/2	3/4
3	3	3	7/8	1-5/16

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	LH Joist	Joist Thickness 10K1 more than 4 ft OC	10K1 less than 4 ft OC	16K2 more than 4 ft OC	16K2 less than 4 ft OC
1	1	1	1-1/8	1-1/8	15/16	15/16	15/16
1-1/2	1	1	1-5/16	1-5/16	1-1/16	1-1/4	1-3/16
1-1/2	1-1/2	1-1/2	1-5/8	1-7/16	1-1/4	1-1/4	1-3/16
2	1	1	1-7/16	1-7/16	1-9/16	1-1/2	
2	2	2	1-1/2	2-3/16	1-15/16	1-9/16	1-1/2
3	1-1/2	1-1/2	1-1/2	3-1/4	2-13/16	2-1/4	2-1/8
3	3	3	3-1/4	3-1/4	2-13/16	2-1/4	2-1/8

Units welded to each steel beam, 36 welds per 100 sq ft of form units with at least one weld at each side joint. Welding of deck side joint between beams for deck spans ranging between 3 ft, 6 in. and 6 ft, 6 in. O.C. shall be at least two welds of each side joint. Welding of side joints for spans greater than 6 ft, 6 in. O.C. shall be a minimum of three welds of each side joint.

Any Manufacturer — Corrugated deck having cross-section similar to above description.

3A. **Steel Floor and Form Units** — As an alternate to Item 3, Composite 1-1/2, 2, or 3 in. deep galv fluted units. Min gauge is No. 22 MSG. Spacing of welds attaching units to supports shall be at each side of joint and not to exceed 12 in. OC between joints. Adjacent units button punched or welded together 36 in. OC at joints.
**CANAM ST

1ST FLOOR - CODE REVIEW
G-101
FOR BLUEBEAM LABELING/OCR:



FIRE-RATED ASSEMBLIES

ROOF ASSEMBLY	UL P921
FLOOR ASSEMBLY	UL D780
WIDE FLANGE STEEL COLUMNS	UL X772
TUBE STEEL COLUMNS	UL X771
STUD FRAMED WALL	UL U465
STUD FRAMED SHAFTWALL	UL U415
CMU WALL	UL U905

1. UL ASSEMBLIES INDICATED ESTABLISH A BASIS OF PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCH. IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.

2. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC. PENETRATIONS THROUGH FIRE-RATED WALLS, FLOOR, AND OR ROOF ASSEMBLIES WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO GUIDELINES FOR APPROPRIATE ASSEMBLIES.

3. PROVIDE DAMPERS AND OR LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.

4. PROVIDE SPRAY-ON FIREPROOFING PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM A FIRE-RATED ROOF ASSEMBLY AND OR A FIRE-RATED FLOOR ASSEMBLY INTO OTHER AREAS WITH ANY OTHER FIRE-RATED ASSEMBLY OR NO FIRE-RATED ASSEMBLY, FOR THEIR FULL LENGTH.

5. PERMANENTLY MARK ALL WALLS ABOVE CEILINGS AS FOLLOWS:
"FIRE-RATED WALL - PROTECT ALL OPENINGS"
LETTERS SHALL BE RED IN COLOR AND A MINIMUM OF 2 1/2 INCHES IN HEIGHT. PROVIDE A MINIMUM OF ONE MARKING PER STRUCTURAL BAY.

6. PERMANENTLY MARK SMOKE PARTITIONS ABOVE CEILINGS AS FOLLOWS:
"SMOKE PARTITION - PROTECT ALL OPENINGS"
LETTERS SHALL BE RED IN COLOR AND A MINIMUM OF 2 1/2 INCHES IN HEIGHT. PROVIDE A MINIMUM OF ONE MARKING PER STRUCTURAL BAY.

FIRE-RATED FLOOR AND CEILING LEGEND

2 HOUR RATED UL FLOOR/ CEILING ASSEMBLY

1 HOUR RATED UL FLOOR/ CEILING ASSEMBLY

NOT RATED STRUCTURE HIGHER THAN 20' A.F.F.

FIRE EXTINGUISHER AND MOUNTING BRACKETS TO BE INSTALLED ACCORDING TO NFPA REGULATIONS

SCH BASE
SCH FIN. FLOOR
ELEVATION VIEW

SCH PART
SEMI-RECESSED F.E.C.
PLAN VIEW

CODE ANALYSIS SYMBOLS

1-HOUR FIRE RATING
2-HOUR FIRE RATING
3-HOUR FIRE RATING
0-HOUR SMOKE RATING
1-HOUR SMOKE RATING
EGRESS TRAVEL PATH
EGRESS COMMON PATH OF TRAVEL
LS-1 — TRAVEL DISTANCE NAME
150' - 0" — TRAVEL DISTANCE LENGTH
EXIT SIGN
Area Name
OCCUPANCY TYPE — A-3 | 100.0
ROOM AREA — 150 SF | OL 00000
FUNCTION OF SPACE LOAD FACTOR
OCCUPANT LOAD FOR ROOM (NET FUNCTIONS ONLY)
35" POINT OF *EXIT ACCESS* WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
35" POINT OF *EXIT DISCHARGE* WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
A.E.D. AUTOMATED EXTERNAL DEFIBRILLATOR
F.E.C. FIRE EXTINGUISHER CABINET
ACCESSIBLE PUSH PLATE ACTUATOR
F.E. FIRE EXTINGUISHER
FH PROPOSED FIRE HYDRANT
FIRE HOSE COVERAGE

NOTES: PROVIDE (1) WALL MOUNTED FIRE EXTINGUISHER AT EACH IDF, ELECTRICAL, AND MECHANICAL ROOM ON ALL LEVELS.

OCCUPANCY LOAD FACTOR LEGEND

- (none)
- IBC Accessory storage areas, mechanical rooms
- IBC Assembly w fixed seats (1004.1.2)
- IBC Assembly w/o fixed seats - Concentrated - Standing Space (Net)
- IBC Assembly w/o fixed seats - Unconcentrated - tables and chairs(Net)
- IBC Business areas (1004.8)
- IBC Educational - Classroom area (Net)
- IBC Exercise rooms
- IBC Institutional areas - Outpatient areas
- IBC Locker rooms
- IBC Mercantile

1 PKG 3B - LEVEL 1 - Code Review
1" = 20'-0"

PROJECT GENERAL INFORMATION

NAME OF PROJECT:	NEW GYM, CLASSROOM, AND MULTI-PURPOSE FACILITY
BUILDING / FACILITY NAME:	GALENA PARK HIGH SCHOOL
LOCATION (ADDRESS):	1000 KEENE STREET
STATE, ZIP CODE:	GALENA PARK, TEXAS 77547
DESCRIPTION OF PROJECT:	THREE-STORY CLASSROOM WING AND MULTI-PURPOSE FACILITY AND AN INDEPENDENT TWO-STORY ATHLETICS BUILDING
AUTHORITY HAVING JURISDICTION:	CITY OF GALENA PARK
APPLICABLE BUILDING CODE:	2009 INTERNATIONAL BUILDING CODE
	2009 INTERNATIONAL FIRE CODE
	2009 UNIFORM MECHANICAL CODE
	2009 UNIFORM PLUMBING CODE
	2011 NATIONAL ELECTRICAL CODE
APPLICABLE ENERGY CODE:	2009 INTERNATIONAL ENERGY EFFICIENCY CODE
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS
CONSTRUCTION TYPE:	CLASSROOM & MULTI-PURPOSE FACILITY: IB ATHLETICS BUILDING: IIA
OCCUPANCY CLASSIFICATION:	GROUP E, EDUCATIONAL
OVERALL USE OF BUILDING:	HIGH SCHOOL
HIGH RISE BUILDING:	NO
AUTOMATIC FIRE SPRINKLER SYSTEM:	YES, NFPA 13
STANDPIPE SYSTEM:	YES
MINIMUM CORRIDOR WIDTH (RE. IBC):	60"
GROSS BUILDING SQ FT:	275,776 SQ FT.
TEA OCCUPANT LOAD:	0 OCCUPANTS

MULTI PURPOSE OCCUPANCY AND EGRESS

	Number of Occupants	Exits: Single Exit Maximum Occupant Load: 49		Egress Door Width (in.): Means of Egress Capacity Factor: 0.2 in.		Egress Stair Width (in.): Stairway Means of Egress Capacity Factor: 0.3in.	
		Required	Provided	Required	Provided	Required	Provided
First Floor	2272	4	0	455"	0"	682"	0"
Second Floor	1732	4	0	347"	0"	520"	0"
Third Floor	1312	4	0	263"	0"	394"	0"
Fourth Floor	0	1	0	0"	0"	0"	0"

MULTI PURPOSE PLUMBING / FIXTURE COUNTS

Occupancy Type:E	Occupants	Water Closets + Urinals		Lavatories		Drinking Fountains		Bathtubs/Showers		Service Sinks	
		Required	Provided	Required	Provided	Required	Provided	Required	Provided	Required	Provided
Total Occupants:	5,316	-	-	-	-	54	0		0	1	0
Total Female Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Total Male Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Unisex Assisted Use:	-	0	0	0	0	-	-	-	-	-	-

MULTI PURPOSE ALLOWABLE BUILDING HEIGHTS AND AREAS (FROM TABLE 503)

	1st Occupancy Info	Provided
OCCUPANCY CLASSIFICATION	E	-
ALLOWABLE HEIGHT IN FEET	85'	75'
ALLOWABLE HEIGHT STORIES	4	0
NON-SPRINKLERED ALLOWABLE AREA (SF)	0	-
TABULAR ALLOWABLE AREA (SF)	0	-
FRONTAGE INCREASE (.XX)	0	-
TOTAL ALLOWABLE AREA PER STORY (SF)	0	0
MAXIMUM COMMON PATH (WITH OR WITHOUT SPRINKLER)	0"	0"
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER)	0"	0"
CORRIDOR FIRE RESISTANCE RATING	0hr.	0hr.

ATHLETIC BUIDLING OCCUPANCY AND EGRESS

	Number of Occupants	Exits: Single Exit Maximum Occupant Load: 49		Egress Door Width (in.): Means of Egress Capacity Factor: 0.2 in.		Egress Stair Width (in.): Stairway Means of Egress Capacity Factor: 0.3in.	
		Required	Provided	Required	Provided	Required	Provided
First Floor	2272	4	0	455"	0"	682"	0"
Second Floor	1732	4	0	347"	0"	520"	0"
Third Floor	1312	4	0	263"	0"	394"	0"
Fourth Floor	0	1	0	0"	0"	0"	0"

ATHLETIC BUILDING PLUMBING / FIXTURE COUNTS

Occupancy Type:E	Occupants	Water Closets + Urinals		Lavatories		Drinking Fountains		Bathtubs/Showers		Service Sinks	
		Required	Provided	Required	Provided	Required	Provided	Required	Provided	Required	Provided
Total Occupants:	5,316	-	-	-	-	54	0		0	1	0
Total Female Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Total Male Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Unisex Assisted Use:	-	0	0	0	0	-	-	-	-	-	-

ATHLETIC BUILDING ALLOWABLE BUILDING HEIGHTS AND AREAS (FROM TABLE 503)

	1st Occupancy Info	Provided
OCCUPANCY CLASSIFICATION	E	-
ALLOWABLE HEIGHT IN FEET	180'	0'
ALLOWABLE HEIGHT STORIES	6	0
NON-SPRINKLERED ALLOWABLE AREA (SF)	0	-
TABULAR ALLOWABLE AREA (SF)	0	-
FRONTAGE INCREASE (.XX)	0	-
TOTAL ALLOWABLE AREA PER STORY (SF)	0	0
MAXIMUM COMMON PATH (WITH OR WITHOUT SPRINKLER)	0"	0"
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER)	0"	0"
CORRIDOR FIRE RESISTANCE RATING	0hr.	0hr.

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENTS:	TYPE IIA	TYPE IB
PRIMARY STRUCTURAL FRAME	2[a,b]	2[a,b]
EXTERIOR BEARING WALLS	1	2
INTERIOR BEARING WALLS	1	2[a]
INTERIOR NON BEARING WALLS AND PARTITIONS	0	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1	2
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1[b,c]	1[b,c]
EXTERIOR NON BEARING WALLS AND PARTITIONS (FIRE SEPARATION DISTANCE < 5')	1	1
EXTERIOR NON BEARING WALLS AND PARTITIONS (5 ≤ X < 10)	1	1
EXTERIOR NON BEARING WALLS AND PARTITIONS (10 ≤ X < 30)	1[d]	1[d]
EXTERIOR NON BEARING WALLS AND PARTITIONS (X ≥ 30)	0	0

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FORMS OF LEARNING

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

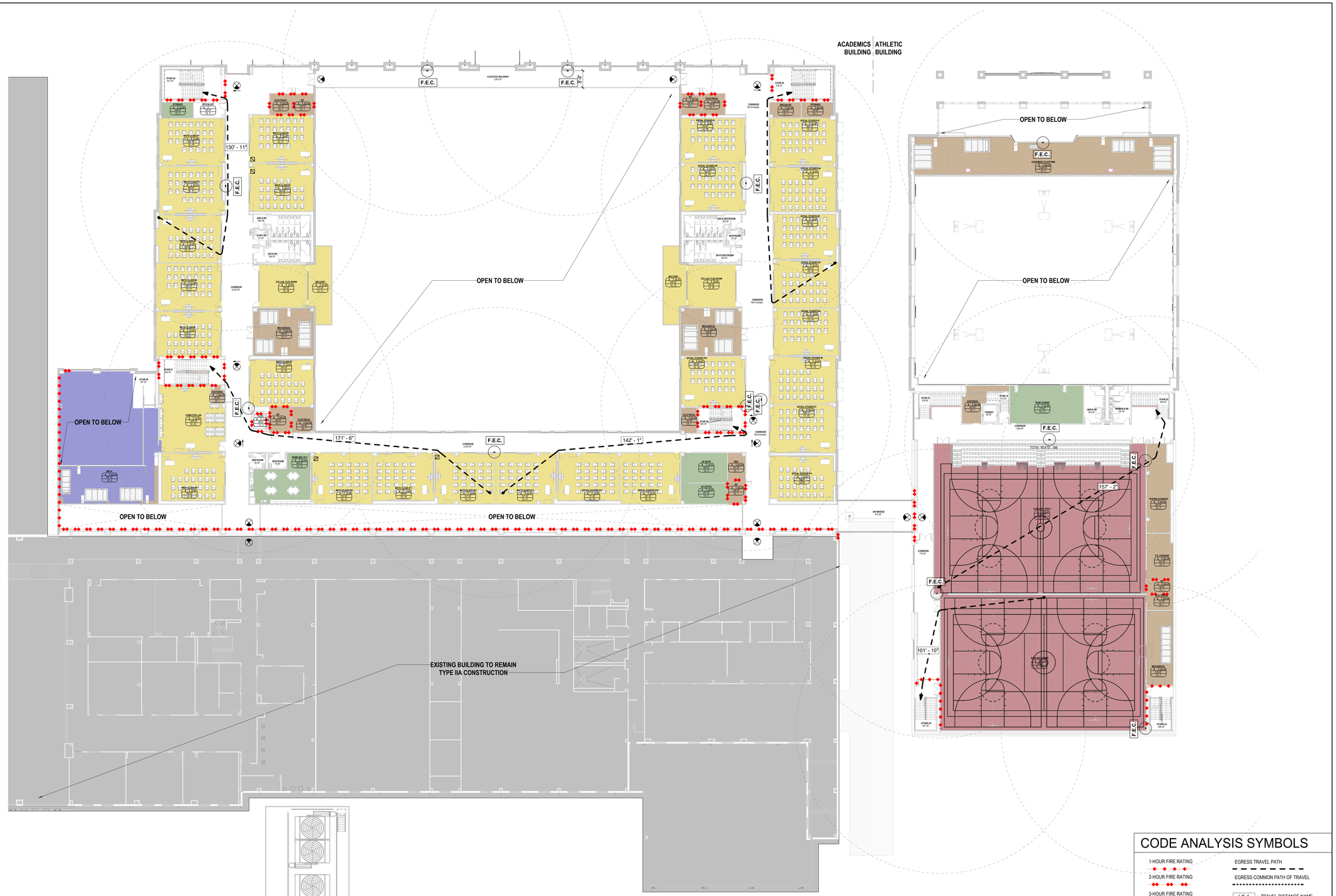
CHECKED BY: Checker
DRAWN BY: IE

1ST FLOOR - CODE REVIEW

G-101

0"
1"

2ND FLOOR - CODE REVIEW
G-102
FOR BLUEBEAM LABELING/DOOR:



OCCUPANCY LOAD FACTOR LEGEND

- (none)
- IBC Accessory storage areas, mechanical rooms
- IBC Assembly w/o fixed seats - Unconcentrated - tables and chairs(Net)
- IBC Business areas (1004.8)
- IBC Educational - Classroom area (Net)
- IBC Exercise rooms

NOTES: PROVIDE (1) WALL MOUNTED FIRE EXTINGUISHER AT EACH IDF, ELECTRICAL, AND MECHANICAL ROOM ON ALL LEVELS.

CODE ANALYSIS SYMBOLS

- 1-HOUR FIRE RATING
- 2-HOUR FIRE RATING
- 3-HOUR FIRE RATING
- 0-HOUR SMOKE RATING
- 1-HOUR SMOKE RATING
- EGRESS TRAVEL PATH
- EGRESS COMMON PATH OF TRAVEL
- LS-1 / 150' - 0" — TRAVEL DISTANCE NAME / TRAVEL DISTANCE LENGTH
- EXIT SIGN
- Area Name — OCCUPANCY TYPE / ROOM AREA — A-3 100.0 / 150 SF / OL 00000 — FUNCTION OF SPACE / LOAD FACTOR / OCCUPANT LOAD FOR ROOM (NET FUNCTIONS ONLY)
- 35" — POINT OF ***EXIT ACCESS*** WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- 35" — POINT OF ***EXIT DISCHARGE*** WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- A.E.D. — AUTOMATED EXTERNAL DEFIBRILLATOR
- F.E.C. — FIRE EXTINGUISHER CABINET
- ACCESSIBLE PUSH PLATE ACTUATOR
- F.E. — FIRE EXTINGUISHER
- FH — PROPOSED FIRE HYDRANT
- FIRE HOSE COVERAGE

1 LEVEL 2 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN / TRUE

REGISTERED ARCHITECT — IAN LEPICOVSKY — 25572 — STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

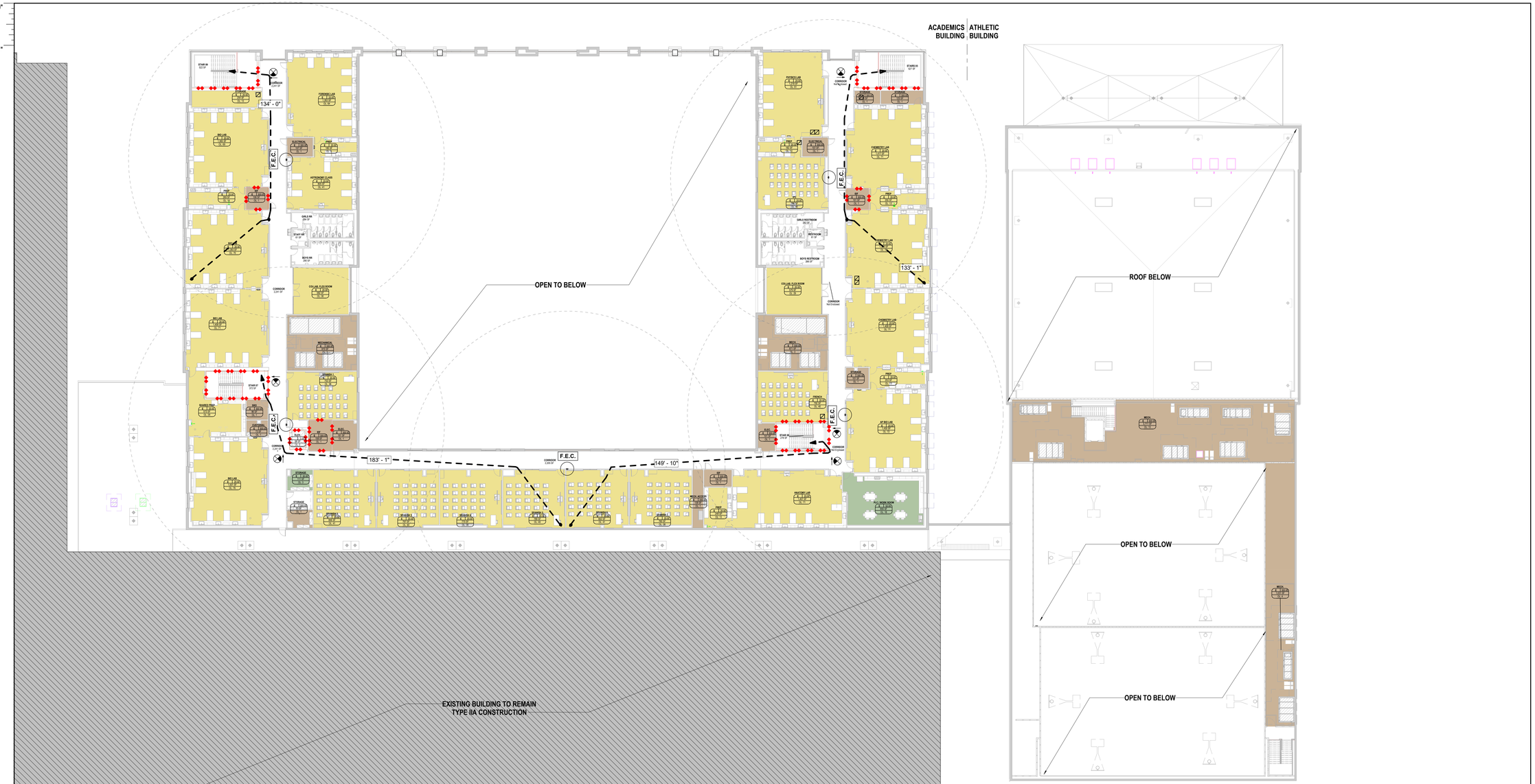
No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

2ND FLOOR - CODE REVIEW

G-102

3RD FLOOR - CODE REVIEW
G-103
FOR BLUEBEAM LABELING/DOOR:



OCCUPANCY LOAD FACTOR LEGEND

- (none)
- IBC Accessory storage areas, mechanical rooms
- IBC Business areas (1004.8)
- IBC Educational - Classroom area (Net)

NOTES: PROVIDE (1) WALL MOUNTED FIRE EXTINGUISHER AT EACH IDF, ELECTRICAL, AND MECHANICAL ROOM ON ALL LEVELS.

CODE ANALYSIS SYMBOLS

- 1-HOUR FIRE RATING
- 2-HOUR FIRE RATING
- 3-HOUR FIRE RATING
- 0-HOUR SMOKE RATING
- 1-HOUR SMOKE RATING
- EGRESS TRAVEL PATH
- EGRESS COMMON PATH OF TRAVEL
- LS-1 / 150' - 0" — TRAVEL DISTANCE NAME / TRAVEL DISTANCE LENGTH
- EXIT SIGN
- Area Name / OCCUPANCY TYPE / ROOM AREA — A-3 100.0 / 150 SF / OL 00000 — FUNCTION OF SPACE LOAD FACTOR / OCCUPANT LOAD FOR ROOM (NET FUNCTIONS ONLY)
- 35" POINT OF *EXIT ACCESS* WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- 35" POINT OF *EXIT DISCHARGE* WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- A.E.D. — AUTOMATED EXTERNAL DEFIBRILLATOR
- F.E.C. — FIRE EXTINGUISHER CABINET
- ACCESSIBLE PUSH PLATE ACTUATOR
- F.E. — FIRE EXTINGUISHER
- FH — PROPOSED FIRE HYDRANT
- FIRE HOSE COVERAGE

1 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

Plot Stamp:
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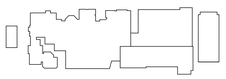
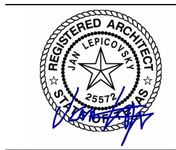
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: IE

3RD FLOOR - CODE REVIEW

G-103

NET OCCUPANCY SCHEDULES
G-104

FOR BLUEBEAM LABELING/OCR:

0"
1"

LEVEL 1

Room Information			Occupancy Requirements		Category Calc (A4, A5, B)
Number	Name	Area	Occupancy Load Factor	Occ Function (O.F.)	Occ G.T.
LEVEL 1					
1509	STAIR 01	577 SF		(none)	
1131C	STAIRS 08	191 SF		(none)	
1514	STAIR 02	529 SF		(none)	
113	CENTRAL PLANT (NIC)	2,348 SF		(none)	
		3,645 SF			0
CBC 2018- Educational					
1100	MP SPACE	37,236 SF		(none)	
		37,236 SF			0
IBC 2018 - Educational					
C1100.2	CORRIDOR	3,022 SF	0 SF	(none)	
C1100.1	CORRIDOR	2,134 SF	0 SF	(none)	
C1000	MAIN STREET	7,525 SF	0 SF	(none)	
1152	BOYS RR	297 SF	0 SF	(none)	
1112	BOYS RR	294 SF	0 SF	(none)	
1119	RR	67 SF	0 SF	(none)	
1126	ELEV.	59 SF	0 SF	(none)	
1114.1	LIFT	192 SF	0 SF	(none)	
1107.1	RESTROOM	91 SF	0 SF	(none)	
1105	RESTROOM	93 SF	0 SF	(none)	
1109	GIRLS RR	301 SF	0 SF	(none)	
1110	STAFF RR	63 SF	0 SF	(none)	
1153	RESTROOM	64 SF	0 SF	(none)	
1154	GIRLS RR	300 SF	0 SF	(none)	
1118	STAIR 07	431 SF	0 SF	(none)	
1144	STAIR 06	282 SF	0 SF	(none)	
1516	BOYS RR	315 SF	0 SF	(none)	
C1508	CORRIDOR	2,955 SF	0 SF	(none)	
1517	GIRLS RR	321 SF	0 SF	(none)	
C1508.4	CORRIDOR	540 SF	0 SF	(none)	
1541.2	COACHES RR	158 SF	0 SF	(none)	
1529.2	COACHES RR	166 SF	0 SF	(none)	
1532	GIRLS ATHLETIC RR / SHOWER	340 SF	0 SF	(none)	
1542	BOYS ATHLETIC RR / SHOWER	342 SF	0 SF	(none)	
1541.1	M COACHES LOCKER/SHOWER	165 SF	0 SF	(none)	
1529.1	W COACHES LOCKER/SHOWER	169 SF	0 SF	(none)	
C1508.3	CORRIDOR	84 SF	0 SF	(none)	
1530.1	GIRLS PE RR& SHOWER	251 SF	0 SF	(none)	
C1508.2	CORRIDOR	537 SF	0 SF	(none)	
1550	STAIR 03	291 SF	0 SF	(none)	
1536	STAIR 04	270 SF	0 SF	(none)	
1540.1	BOYS PE RR & SHOWER	277 SF	0 SF	(none)	
C1508.1	CORRIDOR	78 SF	0 SF	(none)	
1511	FREIGHT	79 SF	0 SF	(none)	
1161	STAIR 05	519 SF	0 SF	(none)	
1101	STAIR 09	519 SF	0 SF	(none)	
C1103	CORRIDOR	118 SF	0 SF	(none)	
1501	WOMEN'S RR	399 SF	0 SF	(none)	
1506	MEN'S RR	405 SF	0 SF	(none)	
1117	MECHANICAL	820 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
1148	MECHANICAL	774 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
1123.1	STORAGE	67 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1116.1	STORAGE	158 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1158.1	STORAGE	52 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1127	SCHOOL BOOK ROOM	475 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
1128	ELECTRICAL	122 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1132	TESTING / STORAGE	452 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
1129	IDF	130 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1137	TECHNICAL STORAGE	557 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
1138	IDF	111 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1502	GYM STORAGE	291 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1520.1	CART STORAGE	514 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
1503	ELECTRICAL / IDF	229 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1527	CUSTODIAL	221 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1534.1	STORAGE	131 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1548	MECHANICAL	583 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
1538.1	STORAGE	217 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1546.1	STORAGE	161 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1543	BOYS LAUNDRY	358 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1524	GIRLS LAUNDRY	394 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1533.1	STORAGE	94 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1550.1	MECHANICAL	285 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1510	OFFICIAL FLEX OFFICE	111 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1512	ELECTRICAL	323 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1513	VOLLEYBALL/BASKETBALL STORAGE	352 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1535.1	STORAGE	91 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1544	PUMP ROOM	218 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1545	IDF	131 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1160	ELECTRICAL	103 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1125	CLERK	73 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1108.1	STORAGE	88 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1106	IDF	90 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1142.1	ELECTRICAL	103 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1505.1	CONCESSION STORAGE	157 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
1107.2	STORAGE	69 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1531.1	STORAGE	90 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1115	ELECTRICAL	109 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1162	IDF	82 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1504.1	TICKET BOOTH STORAGE	73 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1104.1	STORAGE	88 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1524.1	IDF	101 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1547	BOYS GOLF STOR.	111 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
1507	COMPETITION GYM	14,404 SF	0 SF	IBC Assembly w fixed seats (1004.1.2)	1,400
1500	GYM LOBBY	2,145 SF	5 SF	IBC Assembly w/o fixed seats - Concentrated - Standing Space (Net)	429
1135	VESTIBULE	1,086 SF	5 SF	IBC Assembly w/o fixed seats - Concentrated - Standing Space (Net)	217
1133	PLC / WORK ROOM	713 SF	15 SF	IBC Assembly w/o fixed seats - Unconcentrated - tables and chairs(Net)	48
1131	TEMP BAND	3,174 SF	15 SF	IBC Assembly w/o fixed seats - Unconcentrated - tables and chairs(Net)	212

LEVEL 1

Room Information			Occupancy Requirements		Category Calc (A4, A5, B)
Number	Name	Area	Occupancy Load Factor	Occ Function (O.F.)	Occ G.T.
1131.3	TEMP CHOIR	1,989 SF	15 SF	IBC Assembly w/o fixed seats - Unconcentrated - tables and chairs(Net)	133
1142	BREAKROOM	366 SF	50 SF	IBC Business areas (1004.8)	7
1123	ARD CONFERENCE	304 SF	50 SF	IBC Business areas (1004.8)	6
1122	SPEECH	97 SF	50 SF	IBC Business areas (1004.8)	2
1120	DIAG.	97 SF	50 SF	IBC Business areas (1004.8)	2
1121	COORDINATOR	95 SF	50 SF	IBC Business areas (1004.8)	2
1124	LSSP	104 SF	50 SF	IBC Business areas (1004.8)	2
1139	AP OFFICE	127 SF	50 SF	IBC Business areas (1004.8)	3
1539	HEAD COACH BOYS SPORTS	247 SF	50 SF	IBC Business areas (1004.8)	5
1541	BOYS SPORTS COACHES OFFICE	237 SF	50 SF	IBC Business areas (1004.8)	5
1528	HEAD COACH GIRLS SPORTS	243 SF	50 SF	IBC Business areas (1004.8)	5
1529	GIRLS SPORTS COACHES OFFICE	241 SF	50 SF	IBC Business areas (1004.8)	5
1526	TEAM ROOM	700 SF	50 SF	IBC Business areas (1004.8)	14
1519	TEAM ROOM	674 SF	50 SF	IBC Business areas (1004.8)	13
1525	OFFICE	132 SF	50 SF	IBC Business areas (1004.8)	3
1523	OFFICE	132 SF	50 SF	IBC Business areas (1004.8)	3
1521	OFFICE	132 SF	50 SF	IBC Business areas (1004.8)	3
1522	OFFICE	132 SF	50 SF	IBC Business areas (1004.8)	3
1518	OFFICE	131 SF	50 SF	IBC Business areas (1004.8)	3
1132.1	TESTING OFFICE	86 SF	50 SF	IBC Business areas (1004.8)	2
1103	LIFE SKILLS	704 SF	20 SF	IBC Educational - Classroom area (Net)	35
1107	MOCK LIVING	911 SF	20 SF	IBC Educational - Classroom area (Net)	46
1114	LIFE SKILLS	765 SF	20 SF	IBC Educational - Classroom area (Net)	38
1116	LIFE SKILLS	688 SF	20 SF	IBC Educational - Classroom area (Net)	34
1111	18+ STUDENTS	413 SF	20 SF	IBC Educational - Classroom area (Net)	21
1102	RESOURCE	715 SF	20 SF	IBC Educational - Classroom area (Net)	36
1104	BEHAVIOR ROOM	703 SF	20 SF	IBC Educational - Classroom area (Net)	35
1108	BEHAVIOR ROOM	713 SF	20 SF	IBC Educational - Classroom area (Net)	36
1156	ENGLISH #7	838 SF	20 SF	IBC Educational - Classroom area (Net)	42
1155	ENGLISH #11	799 SF	20 SF	IBC Educational - Classroom area (Net)	40
1157	ENGLISH #10	765 SF	20 SF	IBC Educational - Classroom area (Net)	38
1158	ENGLISH #8	783 SF	20 SF	IBC Educational - Classroom area (Net)	39
1159	ENGLISH #9	798 SF	20 SF	IBC Educational - Classroom area (Net)	40
1141	ENGLISH #1	761 SF	20 SF	IBC Educational - Classroom area (Net)	38
1143	ENGLISH #2	838 SF	20 SF	IBC Educational - Classroom area (Net)	42
1147	ENGLISH #4	823 SF	20 SF	IBC Educational - Classroom area (Net)	41
1149	ENGLISH #5	820 SF	20 SF	IBC Educational - Classroom area (Net)	41
1151	ENGLISH #6	751 SF	20 SF	IBC Educational - Classroom area (Net)	38
1146	ENGLISH #3	825 SF	20 SF	IBC Educational - Classroom area (Net)	41
1140	ENGLISH 13	810 SF	20 SF	IBC Educational - Classroom area (Net)	41
1145	ENGLISH #12	845 SF	20 SF	IBC Educational - Classroom area (Net)	42
1113	COLLAB. FLEX ROOM	546 SF	20 SF	IBC Educational - Classroom area (Net)	27
1150	COLLAB. FLEX ROOM	546 SF	20 SF	IBC Educational - Classroom area (Net)	27
1136	TEMPORARY TECHNICAL CLASSROOM	1,047 SF	20 SF	IBC Educational - Classroom area (Net)	52
1134	COMPUTER LAB	1,046 SF	20 SF	IBC Educational - Classroom area (Net)	52
1515	MAIN WEIGHT ROOM	1,470 SF	50 SF	IBC Exercise rooms	29
1520	TRAINERS	303 SF	100 SF	IBC Institutional areas - Outpatient areas	3
1537	GIRLS GOLF	255 SF	50 SF	IBC Locker rooms	5
1546	BOYS BASKETBALL	508 SF	50 SF	IBC Locker rooms	10
1534	GIRLS VOLLEYBALL	508 SF	50 SF	IBC Locker rooms	10
1538	GIRLS SOCCER	544 SF	50 SF	IBC Locker rooms	11
1549	BOYS GOLF & CROSS COUNTRY	240 SF	50 SF	IBC Locker rooms	5
1530	GIRLS PE	366 SF	50 SF	IBC Locker rooms	7
1533	TRACK / CROSS COUNTRY	208 SF	50 SF	IBC Locker rooms	4
1535	CHEERLEADING	210 SF	50 SF	IBC Locker rooms	4
1531	GIRLS BASKETBALL	206 SF	50 SF	IBC Locker rooms	4
1540	BOYS PE	358 SF	50 SF	IBC Locker rooms	7
1511.1	VISITOR / FLEX ROOM	375 SF	50 SF	IBC Locker rooms	8
1524.2	FLEX OFF.	65 SF	50 SF	IBC Locker rooms	1
1505	CONCESSIONS	169 SF	60 SF	IBC Mercantile	3
1504	TICKET BOOTH	113 SF	60 SF	IBC Mercantile	2

LEVEL 2

Room Information			Occupancy Requirements		Category Calc (A4, A5, B)
Number	Name	Area	Occupancy Load Factor	Occ Function (O.F.)	Occ G.T.
LEVEL 2					
IBC 2018 - Educational					
C2100.1	CORRIDOR	3,933 SF	50 SF	(none)	79
C2512	SKYBRIDGE	572 SF		(none)	
2157	STAIR 05	518 SF		(none)	
2508	WOMEN'S RR	197 SF		(none)	
2507	MEN'S RR	203 SF		(none)	
2101	STAIR 09	527 SF		(none)	
2124.1	STAIR 08	167 SF		(none)	
2123	RESTROOM	62 SF		(none)	
2126	RESTROOM	73 SF		(none)	
2505	STAIR 10	114 SF		(none)	
2504	FREIGHT	80 SF		(none)	
2102	SPECIALIST	126 SF		(none)	
2156	SPECIALIST	122 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2155.1	STORAGE	124 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2145	MECHANICAL	758 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
2137	IDF	106 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2127	ELECTRICAL	145 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2125	IDF	139 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2503	CUSTODIAL	235 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
2511	TESTING STORAGE	559 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
2510.1	P.E. STORAGE	321 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
2115	MECHANICAL	756 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
2104	IDF	105 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2136	ELECTRICAL	102 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2510.2	IDF	99 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2512.1	ELECTRICAL	113 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2500	EQUIPMENT PLATFORM	2,540 SF	300 SF	IBC Accessory storage areas, mechanical rooms	8
2124	MECH.	997 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
2118	CUSTODIAL	60 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2512.2	MECHANICAL	539 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
2138	SRO	121 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2103	ELECTRICAL	125 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2159	IDF	104 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2158	ELECTRICAL	124 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
2135	AP SUITE	358 SF	50 SF	IBC Business areas (1004.8)	7
2135.1	AP OFFICE	247 SF	50 SF	IBC Business areas (1004.8)	5
2105.1	STORAGE	128 SF	50 SF	IBC Business areas (1004.8)	3
2506	TEAM LOUNGE	719 SF	50 SF	IBC Business areas (1004.8)	14
2128	WORK RM / PLC	649 SF	50 SF	IBC Business areas (1004.8)	13
2134	SOCIAL STUDIES #12	821 SF	20 SF	IBC Educational - Classroom area (Net)	41
2133	SOCIAL STUDIES #13	771 SF	20 SF	IBC Educational - Classroom area (Net)	39
2132	MATH CLASS #13	811 SF	20 SF	IBC Educational - Classroom area (Net)	41
2139	SOCIAL STUDIES #11	768 SF	20 SF	IBC Educational - Classroom area (Net)	38
2154	SOCIAL STUDIES 8	756 SF	20 SF	IBC Educational - Classroom area (Net)	38
2140	SOCIAL STUDIES #1	839 SF	20 SF	IBC Educational - Classroom area (Net)	42
2144	SOCIAL STUDIES #3	815 SF	20 SF	IBC Educational - Classroom area (Net)	41
2146	SOCIAL STUDIES #4	820 SF	20 SF	IBC Educational - Classroom area (Net)	41
2148	SOCIAL STUDIES #5	762 SF	20 SF	IBC Educational - Classroom area (Net)	38
2153	SOCIAL STUDIES #6	791 SF	20 SF	IBC Educational - Classroom area (Net)	40
2155	SOCIAL STUDIES #7	829 SF	20 SF	IBC Educational - Classroom area (Net)	41
2143	SOCIAL STUDIES #2	831 SF	20 SF	IBC Educational - Classroom area (Net)	42
2152	SOCIAL STUDIES #9	784 SF	20 SF	IBC Educational - Classroom area (Net)	39
2142	SOCIAL STUDIES #10	844 SF	20 SF	IBC Educational - Classroom area (Net)	42
2147.1	BALCONY	434 SF	20 SF	IBC Educational - Classroom area (Net)	22
2129	MATH CLASS #10	819 SF	20 SF	IBC Educational - Classroom area (Net)	41
2130	MATH CLASS #11	769 SF	20 SF	IBC Educational - Classroom area (Net)	38
2131	MATH CLASS #12	811 SF	20 SF	IBC Educational - Classroom area (Net)	41
2121	COMPUTER LAB	1,076 SF	20 SF	IBC Educational - Classroom area (Net)	54
2119	MATH CLASS #8	794 SF	20 SF	IBC Educational - Classroom area (Net)	40
2116	MATH CLASS #7	778 SF	20 SF	IBC Educational - Classroom area (Net)	39
2114	MATH CLASS #6	816 SF	20 SF	IBC Educational - Classroom area (Net)	41
2112	MATH CLASS #5	803 SF	20 SF	IBC Educational - Classroom area (Net)	40
2108	MATH CLASS #4	814 SF	20 SF	IBC Educational - Classroom area (Net)	41
2107	MATH CLASS #3	809 SF	20 SF	IBC Educational - Classroom area (Net)	40
2106	MATH CLASS #2	810 SF	20 SF	IBC Educational - Classroom area (Net)	41
2105	MATH CLASS #1	824 SF	20 SF	IBC Educational - Classroom area (Net)	41
2113.1	BALCONY	415 SF	20 SF	IBC Educational - Classroom area (Net)	21
2122	MATH CLASS #9	798 SF	20 SF	IBC Educational - Classroom area (Net)	40
2147	COLLAB. FLEX ROOM	545 SF	20 SF	IBC Educational - Classroom area (Net)	27
2113	COLLAB. FLEX ROOM	545 SF	20 SF	IBC Educational - Classroom area (Net)	27
2510	AUXILIARY GYM A	8,495 SF	50 SF	IBC Exercise rooms	170
2513	AUXILIARY GYM B	7,469 SF	50 SF	IBC Exercise rooms	149
		56,828 SF			1,663
LEVEL 2		56,828 SF			1,663
Grand total: 72		56,828 SF			1,663

LEVEL 3

Room Information			Occupancy Requirements		Category Calc (A4, A5, B)
Number	Name	Area	Occupancy Load Factor	Occ Function (O.F.)	Occ G.T.
LEVEL 3					
3151	STAIRS 05	527 SF		(none)	
3101	STAIR 09	522 SF		(none)	
1000	MULTI-PURPOSE	35,647 SF		(none)	
1132D	STAIR 10	93 SF		(none)	
1132E	FREIGHT	79 SF		(none)	
3132	STAIR 03	291 SF		(none)	
C3700.1	CORRIDOR	2,241 SF		(none)	
3120.1	STORAGE	102 SF		(none)	
3116.1	ELEV. SWITCH	28 SF		(none)	
		39,531 SF			0
IBC 2018 - Educational					
3150	STORAGE	75 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3139	MECH.	871 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
3113	MECHANICAL	870 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
3120	STORAGE	93 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3124	ELEC.	161 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
3146	IDF	101 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3138	STORAGE	101 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3106	IDF	106 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3117	CUSTODIAL	73 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3148	ELECTRICAL	107 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3105	ELECTRICAL	107 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3123	IDF	158 SF	300 SF	IBC Accessory storage areas, mechanical rooms	1
3133	ELEC.	101 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3147.1	STORAGE	125 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3115	SRO	96 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3130	MECH. ACCESS	139 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3131	IDF	104 SF	300 SF	IBC Accessory storage areas, mechanical rooms	0
3503	MECH.	1,031 SF	300 SF	IBC Accessory storage areas, mechanical rooms	3
3502	STOR.	700 SF	300 SF	IBC Accessory storage areas, mechanical rooms	2
3501	MECH.	3,711 SF	300 SF	IBC Accessory storage areas, mechanical rooms	12
3134	PLC / WORK ROOM	855 SF	50 SF	IBC Business areas (1004.8)	17
3121	STORAGE	111 SF	50 SF	IBC Business areas (1004.8)	2
3149	PHYSICS LAB	1,218 SF	20 SF	IBC Educational - Classroom area (Net)	61
3147	CHEMISTRY LAB	1,417 SF	20 SF	IBC Educational - Classroom area (Net)	71
3135	AP BIO LAB	1,430 SF	20 SF	IBC Educational - Classroom area (Net)	72
3135.1	PREP	253 SF	20 SF	IBC Educational - Classroom area (Net)	13
3141	CHEMISTRY LAB	1,398 SF	20 SF	IBC Educational - Classroom area (Net)	70
3141.1	PREP	255 SF	20 SF	IBC Educational - Classroom area (Net)	13
3140	CHEMISTRY LAB	1,408 SF	20 SF	IBC Educational - Classroom area (Net)	70
3104	BIO LAB	1,365 SF	20 SF	IBC Educational - Classroom area (Net)	68
3108	BIO LAB	1,393 SF	20 SF	IBC Educational - Classroom area (Net)	70
3102	FORENSIC LAB	1,263 SF	20 SF	IBC Educational - Classroom area (Net)	63
3112	BIO LAB	1,409 SF	20 SF	IBC Educational - Classroom area (Net)	71
3119	BIO LAB	1,501 SF	20 SF	IBC Educational - Classroom area (Net)	75
3132	ANATOMY LAB	1,407 SF	20 SF	IBC Educational - Classroom area (Net)	70
3116	SPANISH 1	753 SF	20 SF	IBC Educational - Classroom area (Net)	38
3125	SPANISH 3	797 SF	20 SF	IBC Educational - Classroom area (Net)	40
3126	SPANISH 4	775 SF	20 SF	IBC Educational - Classroom area (Net)	39
3127	SPANISH 5	789 SF	20 SF	IBC Educational - Classroom area (Net)	39
3128	SPANISH 6	802 SF	20 SF	IBC Educational - Classroom area (Net)	40
3129	SPANISH 7	760 SF	20 SF	IBC Educational - Classroom area (Net)	38
3145	IPC	786 SF	20 SF	IBC Educational - Classroom area (Net)	39
3107	ASTRONOMY CLASS	805 SF	20 SF	IBC Educational - Classroom area (Net)	40
3132.1	PREP	249 SF	20 SF	IBC Educational - Classroom area (Net)	12
3122	SPANISH 2	806 SF	20 SF	IBC Educational - Classroom area (Net)	40
3137	FRENCH	792 SF	20 SF	IBC Educational - Classroom area (Net)	40
3103	STORAGE	254 SF	20 SF	IBC Educational - Classroom area (Net)	13
3104.1	PREP	269 SF	20 SF	IBC Educational - Classroom area (Net)	13
3119.1	SHARED PREP	573 SF	20 SF	IBC Educational - Classroom area (Net)	29
3145.1	PREP	182 SF	20 SF	IBC Educational - Classroom area (Net)	9
3102.1	PREP	180 SF	20 SF	IBC Educational - Classroom area (Net)	9
3700B	COLLAB. FLEX ROOM	582 SF	20 SF	IBC Educational - Classroom area (Net)	29
3700A	COLLAB. FLEX ROOM	579 SF	20 SF	IBC Educational - Classroom area (Net)	29
		36,246 SF			1,372
LEVEL 3		75,776 SF			1,372
Grand total: 62		75,776 SF			1,372

Plot Stamp:
12/5/2025 3:17:35 PM

PBK

www.pbk.com

TX FIRM: BR 1608

HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: IE

NET OCCUPANCY SCHEDULES

G-104

GENERAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE JOBSITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION INSPECTIONS WITH THE PROPER REGULATORY AGENCIES, PRIOR TO BEGINNING CONSTRUCTION. COPIES OF ALL PERMITS SHALL BE SENT TO THE ENGINEER.
6. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN RIGHT-OF-WAYS.
7. TOPOGRAPHIC SURVEY BY: WEST BELT SURVEYING INC.
   FIRM NO. 10073800
   21020 PARK ROW KATY, TEXAS 77449
   PHONE: (281) 599-8288
8. BENCHMARK: SEE SURVEY
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
10. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE ENTIRE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, AS WELL AS THE LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ECT. HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
11. THE EXISTING UTILITIES SHOWN WERE PROVIDED BY THE SURVEYOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IF UTILITIES SHOWN ARE NOT AS SPECIFIED.
12. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) REGULATIONS.
13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE, MUNICIPAL, AND LOCAL CODES.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO SUPERVISE AND COORDINATE ALL WORK TO ENSURE THE PROPER EXECUTION. ALL WORK IS TO BE ACCOMPLISHED IN A NEAT, WORKMAN LIKE MANNER, AND ALL EXCESS MATERIALS, TRASH, DEBRIS, ECT., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT HIS EXPENSE.
15. THE CONTRACTOR SHALL INCLUDE IN HIS BID AS AN INCIDENTAL ITEM FOR THE REMOVAL OF ANY EXISTING SIGNAGE THAT IS IN THE WAY OF THE PROPOSED NEW CONSTRUCTION. IF REMOVAL OF SIGNAGE IS NECESSARY, THE CONTRACTOR SHALL REPLACE SAID SIGNAGE.
16. THE CONTRACTOR SHALL KEEP ALL STREETS FREE OF DIRT, MUD,ETC. DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE SCHOOL CHILDREN OUT OF WORK AREA.
18. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. A VERIFICATION NUMBER FROM THE ONE-CALL UTILITY COORDINATING COMMITTEE WILL BE REQUIRED. (800) 344-8377.
19. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO RELOCATE EXISTING POWER POLE(S) AND/OR UTILITY BOX(ES) OR ANY OTHER UTILITIES DEEMED NECESSARY BY THE ENGINEER. CONTRACTOR SHALL COORDINATE THE RELOCATION AND PAY ANY FEES.
20. STRIPING AND CROSS-HATCHING SHALL BE "TRAFFIC YELLOW" PAINTED LINES, FOUR (4) INCHES WIDE UNLESS OTHERWISE NOTED.
21. ALL PAVEMENT MARKINGS (OTHER THAN STRIPING & CROSS-HATCHING) SHALL BE FAST DRYING ALKYD, LOW VOC CHLORINATED RUBBER.
22. REFER TO ARCHITECTURAL SHEETS FOR HANDICAP SIGNAGE.
23. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY STANDARDS.
24. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
25. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
26. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.
27. THIS PROPERTY IS LOCATED IN ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE OF THE 500-YEAR FLOODPLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP BY (FEMA),48201C0905N PANEL 905 OF 1150 DATED MAY 2, 2019. THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THIS SURVEY ON THE ABOVE REFERENCED MAP.

UTILITY NOTES

28. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, BACKFILLING OF WATER AND/OR SEWER MAINS AND RELATED APPURTENANCES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
29. THE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
30. CONTRACTOR SHALL INCLUDE IN BASE PROPOSAL ALL COSTS ASSOCIATED WITH DE-WATERING WELL POINTING, STABILIZING, ETC. THAT MAY BE REQUIRED TO INSTALL ANY AND ALL UNDERGROUND UTILITIES.
31. BEDDING AND BACKFILL SHALL BE SUBSIDIARY TO THE PAY ITEMS FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY. REFER TO DETAILS. IF WET SAND CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORING OF ALL WATER AND SEWER MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIALS AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE CONTRACTOR SHALL REPLACE THE DEFECTIVE MATERIAL WITH SOUND MATERIAL AT HIS OWN EXPENSE.
33. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
34. ALL STORM SEWER TO BE HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR / SMOOTH INTERIOR PIPE WITH WATER TIGHT JOINTS PER ASTM D 3212 UNLESS OTHERWISE OR SPECIFICALLY NOTED.
35. HIGH DENSITY POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR THE PLANS / SPECIFICATIONS; WHICHEVER IS MORE RESTRICTIVE.
36. ALL WATER MAINS TO HAVE A MINIMUM OF 4' (FOUR FEET) OF COVER FROM PROPOSED TOP OF CURB WHEN CONSTRUCTED IN STREET RIGHT-OF-WAY AND 4' (FOUR FEET) OF COVER FROM FINISHED GRADE WHEN CONSTRUCTED WITHIN EASEMENTS. WATER LINES 4" AND LARGER SHALL CONFORM TO ALL REQUIREMENTS OF AWWA C900 - DR 18, CLASS 150. 2", 2-1/2" AND 3" WATER LINES SHALL CONFORM TO ALL REQUIREMENTS OF ASTM D2241 FOR PVC PIPE AND SHALL BE PRESSURE RATED AT 200 P.S.I. WITH A STANDARD DIMENSION RATION (SDR) OF 21 FOR CLASS 200 FOR BOTH BARREL AND BELL DIMENSIONS. WATER LINES SMALLER THAN 2" SHALL CONFORM TO ALL REQUIREMENTS OF SCHEDULE 40.
37. PIPE SLEEVES ARE TO BE 6" PVC, SCHEDULE 40 PIPE CAPPED AT EACH END. THE TOP OF THE PIPE SLEEVE SHALL BE 12" TO 18" BELOW THE BOTTOM OF CONCRETE PAVEMENT OR WALK. EACH END SHALL EXTEND A MINIMUM OF TWO (2) FEET BEYOND THE EDGE OF CONCRETE PAVEMENT OR WALK. LOCATION OF EACH END TO BE MARKED IN CURB OR PAVEMENT WITH BRASS BOLTS.
38. ROOF DRAIN AND DOWNSPOUT COLLECTOR LINES SHALL BE PVC, SDR-26 PIPE (ASTM D2241) OR SCHEDULE 40 PIPE, LAID AT A MINIMUM GRADE OF 0.50% UNLESS NOTED OTHERWISE. COLLECTOR LINES SHALL BE SIZE ON SIZE AND 6" MINIMUM FOR DOWNSPOUTS. ONCE TWO OR MORE ROOF DRAINS / DOWNSPOUTS ARE CONNECTED THE COLLECTOR LINE (RD AND/OR DS) SHALL BE 12" UNLESS NOTED OTHERWISE. NO 90° BENDS SHALL BE USED. ALL BENDS IN LINES SHALL BE MADE WITH EITHER "WYES" OR DOUBLE 45° BENDS. REFER TO THE ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF GUTTER DOWNSPOUTS AND/OR MEP SHEETS FOR EXACT LOCATION/ SIZES OF ROOF DRAINS. WHERE DOWNSPOUT COLLECTORS ARE LOCATED IN PAVED AREAS, PROVIDE A 24"X24" BLOCK OUT AROUND PIPE. REFER TO DETAILS.
39. CONTRACTOR SHALL PROVIDE A MINIMUM OF 12" (TWELVE INCHES) VERTICAL CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS AND AT STORM SEWER AND SANITARY SEWER CROSSINGS, AND A MINIMUM OF 24" (TWENTY FOUR INCHES) VERTICAL CLEARANCE AT WATER LINE AND SANITARY SEWER CROSSINGS.
40. MARK LOCATIONS OF ALL CABLE AND TELEPHONE LINES EXTENDING BENEATH PAVING BY SETTING A 60D GALVANIZED NAIL FLUSH WITH TOP OF CURB (OR TOP OF PAVEMENT WHERE THERE IS NO CURB).
41. CONNECTION TO EXISTING MANHOLES / INLETS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER. NON-SHRINK GROUT SHALL BE USED TO SEAL THE CONNECTION ON BOTH THE INSIDE AND OUTSIDE OF EXISTING MANHOLES / INLETS. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
42. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED AT HIS EXPENSE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION AND/OR AS DIRECTED BY THE ENGINEER.

UTILITY NOTES

43. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
44. REFER TO THE M.E.P. SHEETS FOR EXACT LOCATIONS OF WATER, FIRE, GAS AND SANITARY SEWER CONNECTIONS AT THE BUILDING.
45. REFERENCE M.E.P. SHEETS FOR REMOVAL AND/OR REROUTING OF ANY ELECTRICAL SERVICES OR ANY UTILITY LINE (ROOF DRAIN, SANITARY SEWER, ETC.) THAT LIES UNDER A PROPOSED STRUCTURE.
46. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.
47. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.
48. THE CONTRACTOR SHALL INCLUDE IN THE PROPOSAL AN INCIDENTAL AMOUNT FOR THE SAW CUTTING, REMOVAL AND REPLACEMENT OF PAVEMENT AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING PAVEMENT, WHETHER SHOWN ON THE DRAWINGS OR NOT. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT TYPE, THICKNESS AND GRADES.
49. WHEN CONNECTING TO EXISTING SANITARY SEWERS OR STORM DRAINAGE SYSTEMS, THE CONTRACTOR SHALL START AT THE DOWNSTREAM END AND WORK UPSTREAM. THE CONTRACTOR SHALL ALSO VERIFY THE ELEVATIONS OF THE UPSTREAM AND DOWNSTREAM CONNECTIONS PRIOR TO STARTING WORK. IF ELEVATIONS ARE NOT AS SHOWN ON THE DRAWINGS, CONTACT THE ENGINEER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR START UPSTREAM AND WORK DOWNSTREAM. PIPE SHALL BE INSTALLED WITH THE BELLS AT THE UPSTREAM END.
50. TELEPHONE COMPANY FACILITIES MAY EXIST ON THE PROPERTY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY A FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL (800) 344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES. WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT
51. CAUTION: UNDERGROUND GAS FACILITIES
   GAS LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST ON THE PROPERTY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 811 OR (800) 669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICES LINES FIELD LOCATED

   * WHEN GAS LINE MARKINGS ARE NOT VISIBLE CALL (713) 967-8037 (7:00 AM-4:30 PM) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
   * WHEN EXCAVATING WITHIN 18" OF THE INDICATED LOCATION OF GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
   * WHEN GAS FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING

   THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
52. WARNING: OVERHEAD ELECTRICAL FACILITIES
   OVERHEAD LINES MAY EXIST ON THE PROPERTY. THESE LINES ARE CLEARLY VISIBLE, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN 6' OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL POWER COMPANY AT (713) 207-2222 (CENTERPOINT).

   WARNING: UNDERGROUND ELECTRICAL FACILITIES
   UNDERGROUND ELECTRICAL FACILITIES MAY EXIST ON THE PROPERTY. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL THE UCC AT 811, OR TOLL FREE AT (800) 669-8344, TO VERIFY THAT NO UNDERGROUND FACILITIES EXIST.
53. ALL UNDERGROUND PIPE SHALL HAVE A 12 GAUGE METALLIC TRACER WIRE RUNNING THE FULL LENGTH OF THE PIPE. TRACER WIRE SHALL BE TAPED TO THE PIPE AT INTERVALS NOT TO EXCEED 15 FEET USING DUCT TAPE.

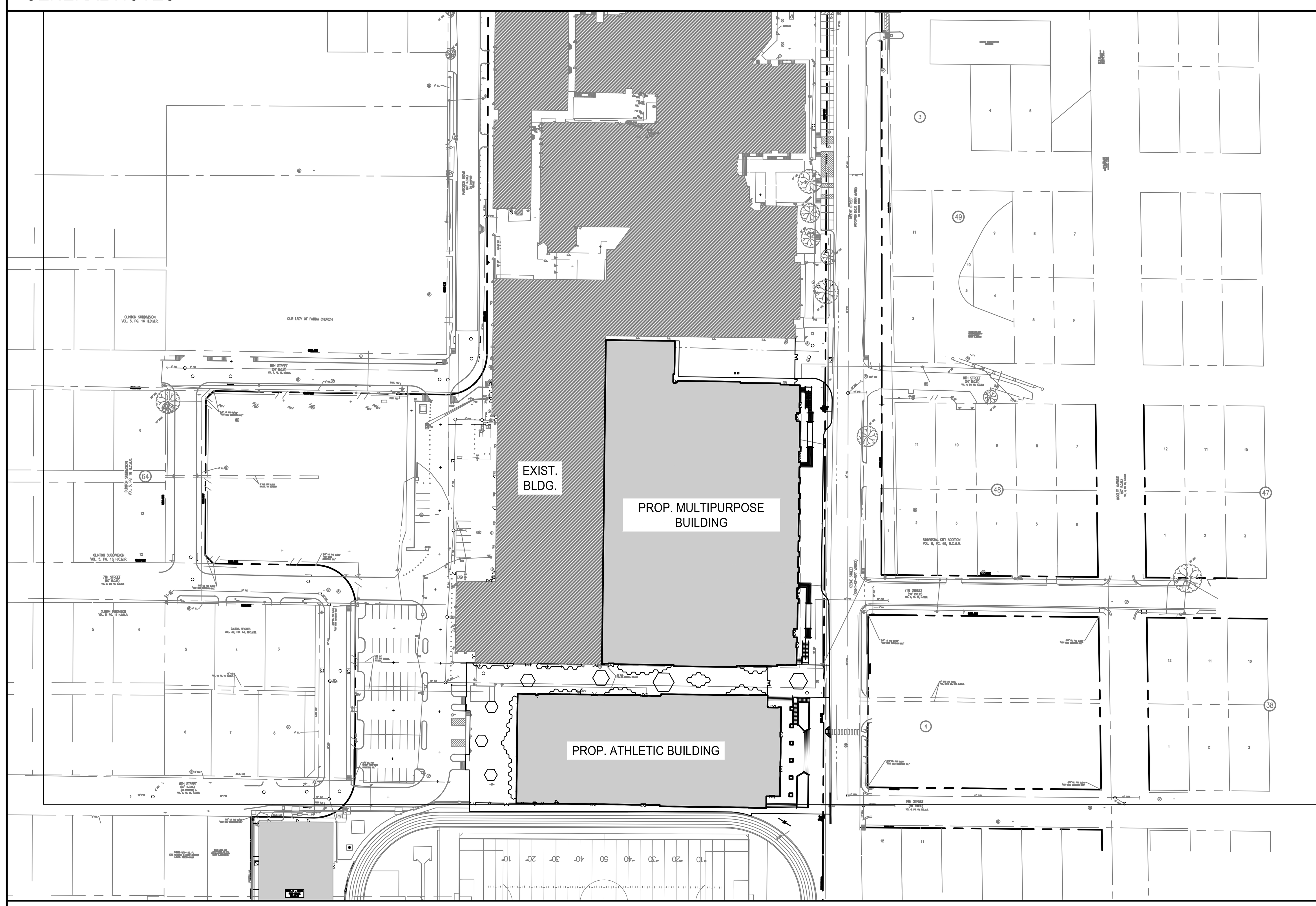
PAVING AND GRADING NOTES

54. REFERENCE THE ARCHITECTURAL SITE PLAN FOR SIDEWALK JOINT PATTERN. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.
55. THE INLETS/MANHOLES SHALL BE COORDINATED WITH THE LOCATION OF PAVEMENT JOINT PATTERN WITHIN PAVEMENT AREAS.
56. EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN THE BUILDING AND PERIMETER CONCRETE PAVING. SEAL JOINT AS REQUIRED FOR PAVING JOINTS.
57. UNLESS OTHERWISE SPECIFIED, ALL PAVEMENT JOINT SEALANT SHALL BE SELF-LEVELING SILICONE JOINT SEALANT. (DOWSIL890-SL SILICONE JOINT SEALANT, DAP® SILICONE PLUS™ PREMIUM SILICONE RUBBER CONCRETE SEALANT, GE SILICONE II MASONRY & CONCRETE SEALANT - 5020, SIKASIL - 728 SL, OR PRE-APPROVED EQUIVALENT.)
58. REFER TO STRUCTURAL FOR ANY DOWELS REQUIRED TYING THE BUILDING FOUNDATION AND ADJACENT CONCRETE PAVING TOGETHER.
59. SAWED JOINTS & TRANSVERSE JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
60. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
61. THE CONTRACTOR SHALL REPLACE ANY DAMAGED AND/OR REMOVED CONCRETE PAVEMENT, CURB AND/OR WALK TO EQUAL OR BETTER THAN EXISTING CONDITION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INCLUDE ANY CONCRETE PAVEMENT, CURB OR WALK REMOVAL AND REPLACEMENT IN HIS BID AS AN INCIDENTAL TO THE COST OF CONSTRUCTION.
62. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE CONTOUR LINES, DIRECTIONAL ARROWS AND ELEVATIONS SHOWN ON DRAWINGS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
63. AT ALL DOORWAYS, THE LANDING SHALL SLOPE AT A MAXIMUM OF 2% AWAY FROM DOORWAY FOR A MINIMUM OF 5 FEET. MATCH FINISH FLOOR ELEVATION AT FACE OF DOORWAYS.
64. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING SILT FENCE OR PLACING SQUARE HAY BALES AT ALL POINTS WHERE STORMWATER RUNOFF EXITS THE SCHOOL PROPERTY, AND AT ALL STORM SEWER INLETS AND MANHOLES, TO PREVENT SEDIMENT CONTAMINATION OF THE EXISTING DRAINAGE ARTERIES AND NEW STORM SEWERS DURING CONSTRUCTION OF OF THIS PROJECT. REFERENCE "STORM WATER POLLUTION PREVENTION PLAN".
65. SITE TO BE CLEARED OF VEGETATION AND DEBRIS AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
66. ALL EXCESS DEBRIS, TREES, AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COST SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
67. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED. REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. HYDROMULCH DISTURBED AREAS NOT NOTED TO BE SOLID SOD OR AS DIRECTED BY THE ENGINEER.
68. WHERE NEW CONCRETE PAVING MEETS EXISTING CONCRETE PAVING, INSTALL 3/4" SMOOTH DOWELS, (18" LONG AND 18" C-C), BY DRILLING 8" INTO THE CENTER OF THE EXISTING SLAB AND EMBEDDING WITH EPOXY. WHEN PAVING UP TO BUILDING FOUNDATIONS, ALSO INSTALL IMPREGNATED FIBER BOARD EXPANSION MATERIAL WITH TOP PULL STRIP FOR CAULKING.
69. PAVEMENT GRADES SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
70. SECURE PRECAST CONCRETE WHEEL STOPS BY DRILLING AND SETTING #4 DOWELS INTO PAVEMENT.
71. FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH LAYER COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
72. CONTRACTOR SHALL INSTALL A GRASS SOLID SOD ADJACENT TO ALL PROPOSED CURBS, DRIVES AND /OR WALKS.
73. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.
74. PRIOR TO ANY CHEMICAL STABILIZATION OF SOIL WITH LIME, FLY ASH OR ANY OTHER MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, CONTRACTOR SHALL HAVE A THIRD PARTY TESTING LAB PERFORM A SOIL ANALYSIS, INCLUDING BUT NOT LIMITED TO A LIME SERIES TEST, TO CONFIRM THE REQUIRED APPLICATION RATE OF THE CHEMICAL USED FOR STABILIZATION.
75. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL SANDY LOAM SURFACE SOIL WITH A MINIMUM OF 4 PERCENT ORGANIC MATERIAL CONTENT FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. COMPLY WITH ASTM D 5268.
76. HYDROMULCH ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED. HYDROMULCH TO BE INSTALLED 90 DAYS PRIOR TO SUBSTANTIAL COMPLETION OR AS SOON AS POSSIBLE IN ORDER TO ESTABLISH GROW-IN PER SPEC. ALTERNATIVELY, GENERAL CONTRACTOR TO PROVIDE SOLID SOD IN LIEU OF HYDROMULCH.

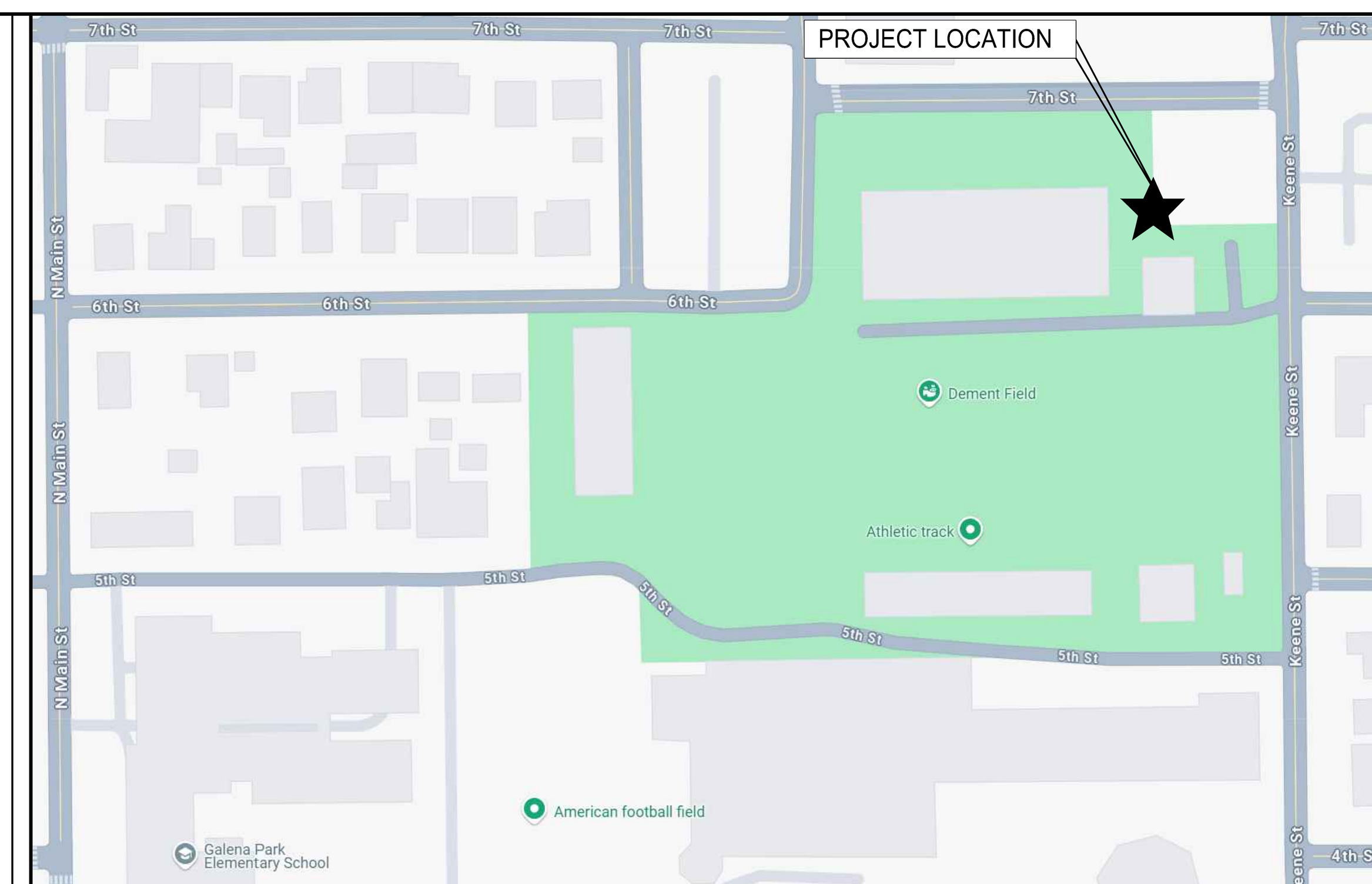
CIVIL LEGEND

Symbol	Description
201	PROPOSED CONTOUR
	PROPOSED CATCH BASIN (C-1)
	PROPOSED "A" INLET (A-1)
	PROPOSED "E" INLET (E-1)
	PROPOSED STORM MANHOLE W/ GRATE TOP
	PROPOSED MANHOLE
	PROPOSED H-2 OR JUNCTION BOX INLET
	GATE VALVE & BOX
	PIPE SLEEVES
	PROP. 45° EL
	TAPPING SLEEVE & VALVE
TC	TOP OF CURB ELEVATION
TP	TOP OF PAVEMENT ELEVATION
TG	TOP OF GRATE ELEVATION
TR	TOP OF RIM (MANHOLE)
FG	FINISH GRADE ELEVATION
MEG	MATCH EXISTING GRADE
FL	FLOWLINE ELEVATION
	SWALE
TFL	THROAT FLOWLINE ELEVATION ("E" INLET)
FH	FIRE HYDRANT
MH	MANHOLE
CO	CLEAN OUT
DCO	DOUBLE CLEAN OUT
DS	DOWNSPOUT COLLECTOR
NIC	NOT IN CONTRACT
RD	ROOF DRAIN COLLECTOR
GV	GATE VALVE
STM	STORM SEWER
SAN	SANITARY SEWER
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
FFF	FILTER FABRIC FENCE
RFB	REINFORCED FABRIC BARRIER
IPB	INLET PROTECTION BARRIER
X	EXPANSION JOINT
L	LONGITUDINAL CONSTRUCTION JOINT
LT	LONGITUDINAL-TIED CONSTRUCTION JOINT
T	TRANSVERSE CONTRACTION JOINT
S	SAWED PAVEMENT JOINT
UE	UTILITY EASEMENT
SSE	SANITARY SEWER EASEMENT
EP	EDGE OF PAVEMENT
HB	HIGH BANK OF DITCH
CL	CENTERLINE OF DITCH
PP	POWER POLE
GW	GUY WIRE
GM	GAS METER
PB	PHONE BOX
FC	FENCE CORNER
CB	CABLE BOX
NG	NATURAL GROUND
xx.xx	EXISTING ELEVATION
+ TP XX.XX	PROPOSED ELEVATION
	ATHLETIC LIGHTPOLE
	ELECTRICAL PEDISTAL
	HOSE BIB

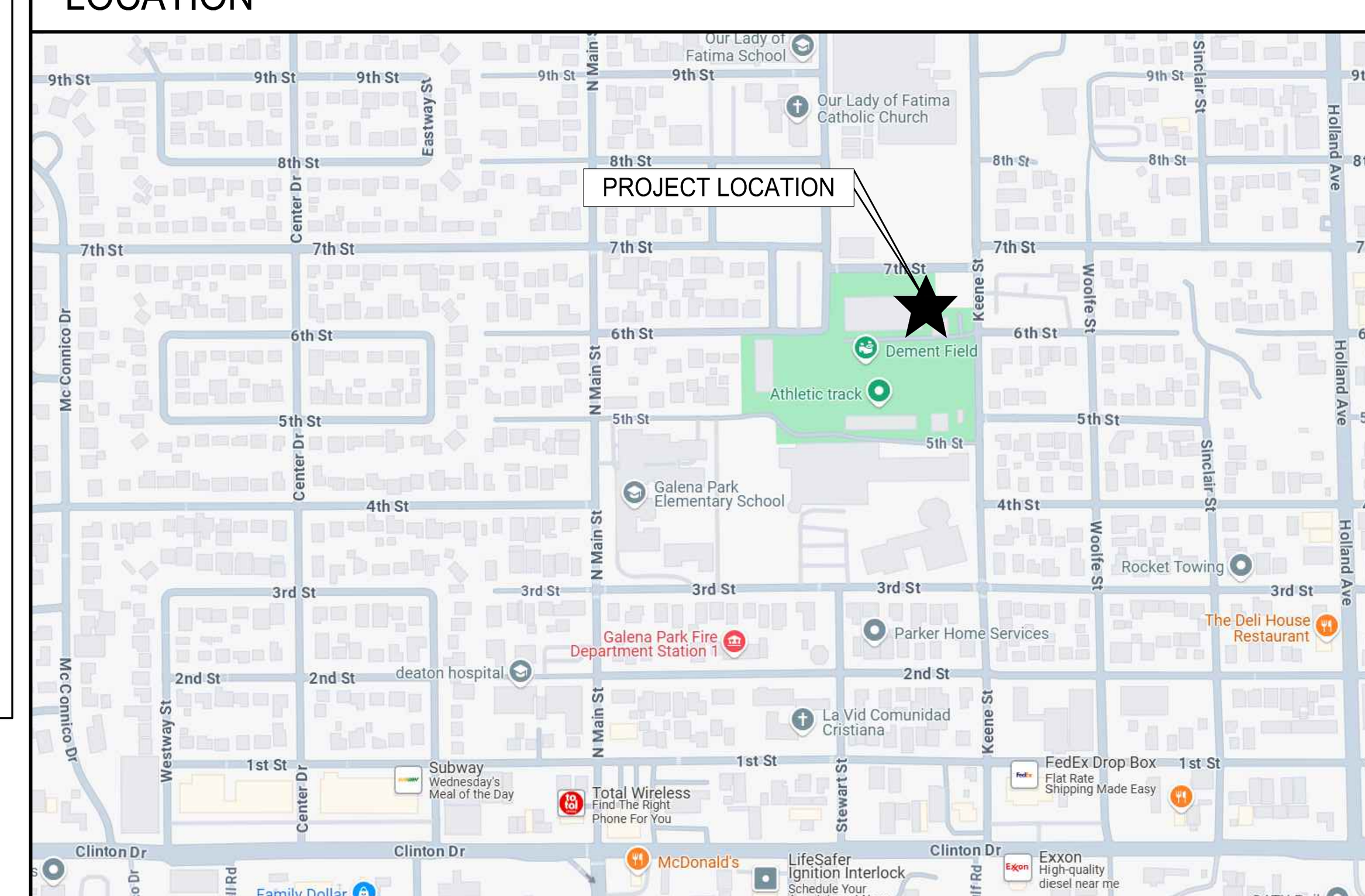
SITE PLAN



LOCATION



VICINITY



PERMITTING INFORMATION

PROJECT NAME:
PHASE 3B (ATHLETICS, ACADEMIC, & MULTIPURPOSE FACILITY)

LEGAL DESCRIPTION:
RES A BLK 1
(SCHOOL & RELATED USES)
GALENA PARK ISD EDUCATIONAL CAMPUS

PHYSICAL ADDRESS:
1000 KEENE ST.
GALENA PARK, TX 77547

TOTAL ACREAGE OF EXISTING LOT:
32.504 ACRES

INDEX OF DRAWINGS

SHEET	DESCRIPTION
C 001	NOTES, INDEX, AND LEGEND
C 002A	SURVEY (FOR INFORMATION ONLY)
C 002B	SURVEY (FOR INFORMATION ONLY)
C 002C	SURVEY (FOR INFORMATION ONLY)
C 002D	SURVEY (FOR INFORMATION ONLY)
C 003	DEMOLITION PLAN
C 101	SITE PLAN
C 102	DIMENSIONAL CONTROL PLAN
C 103	FIRE APPARATUS PLAN
C 201	UTILITY PLAN
C 301	DRAINAGE PLAN
C 302	DRAINAGE AREA MAP
C 401	GRADING PLAN
C 402	PAVING PLAN
C 501	EROSION CONTROL PLAN
C 601	DETAILS
C 602	DETAILS

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

STATE OF TEXAS
RAJEEB K. RAJBHANDARI
116968
LICENSED PROFESSIONAL ENGINEER
12/05/2025
DIG ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE: DECEMBER 05, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY:RKR
DRAWN BY: JW

NOTES, INDEX, & LEGEND

C 001

B:\24\240539 - GPHS MP\FOC\DIG\Building Addition Phase 3B\Dwgs\C 001 NOTES, INDEX, & LEGEND.dwg Last Saved: JWHATLEY
Tuesday, December 2, 2025 1:44:06 PM

DETAILS

DETAIL 1
"BB" INLET
TC=23.19
FL 24" RCP (W) 18.26

DETAIL 2
STM. SWR. MH.
TR=23.05
FL 36" RCP (S) 15.69
FL 24" RCP (W) 17.57
FL 24" RCP (E) 17.54

DETAIL 3
"BB" INLET
TC=23.23
FL 24" RCP (E) 18.02

DETAIL 4
STM. SWR. MH.
TR=23.70
FL 24" HDP (N) 16.97
FL 15" HDP (E) 17.39
FL 15" HDP (E) 17.33
FL 24" RCP (W) 16.85

DETAIL 5
"BB" INLET
TC=22.68
FL 24" RCP (E) 16.62
FL 24" RCP (SW) 16.77

DETAIL 6
STM. SWR. MH.
TR=22.48
FL 24" RCP (NE) 16.04
FL 36" RCP (SW) 15.39
FL 36" RCP (N) 15.35

DETAIL 7
STM. SWR. MH.
TR=22.57
FL 36" RCP (NE) 15.38
FL 36" RCP (W) 15.54

DETAIL 8
STM. SWR. MH.
TR=22.57
FL 36" RCP (E) 15.72
FL 36" RCP (W) 15.45
FL 24" RCP (N) 16.81

DETAIL 9
SAN. SWR. MH.
TR=25.32
FL 8" PVC (W) 19.64
FL 8" PVC (N) 19.93
FL 8" PVC (E) 19.74

DETAIL 10
SAN. SWR. MH.
TR=24.48
FL 8" PVC (S) 19.46
FL 8" PVC (E) 19.47

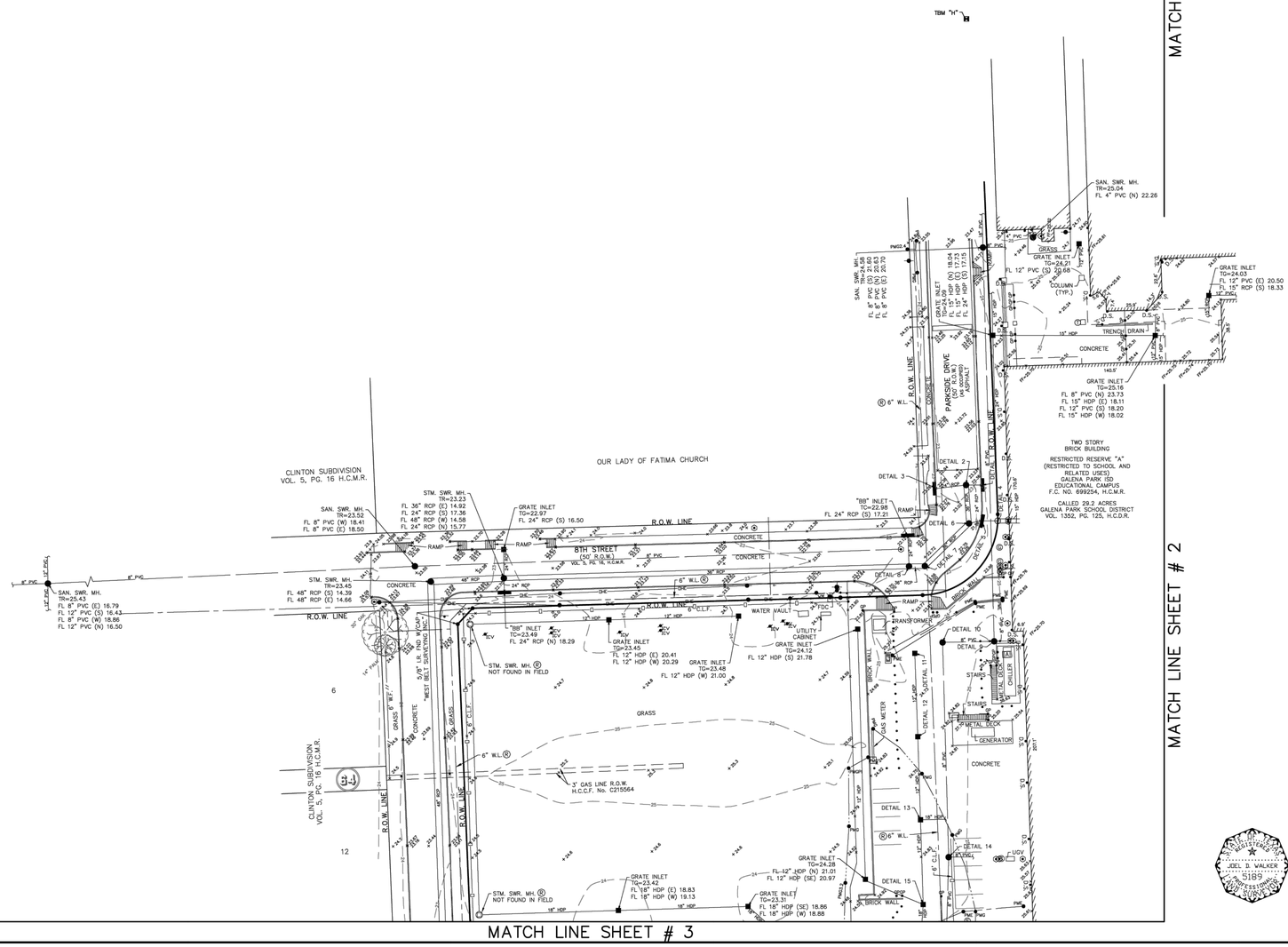
DETAIL 11
GRATE INLET
TG=24.17
FL 12" HDP (S) 21.98

DETAIL 12
GRATE INLET
TG=24.67
FL 12" HDP (S) 21.65
FL 12" HDP (N) 21.93

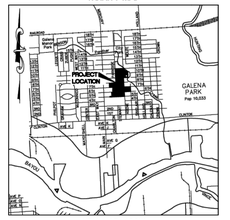
DETAIL 13
GRATE INLET
TG=24.71
FL 12" HDP (S) 19.68
FL 12" HDP (N) 20.90
FL 18" HDP (E) 20.28

DETAIL 14
SAN. SWR. MH.
TR=24.92
FL 8" PVC (S) 18.75
FL 8" PVC (N) 18.76
FL 8" PVC (E) 19.95

DETAIL 15
GRATE INLET
TG=24.33
FL 12" HDP (N) 19.75
FL 18" HDP (SW) 19.64
FL 12" HDP (NW) 20.63



VICINITY MAP


PROJECT LOCATION
GALENA PARK
Pop 16,000
SPENCER
GATEWAY
GATEWAY
GATEWAY



DETAILS

DETAIL 48
GRATE INLET
TG=22.94
FL 12" PVC (N) 21.19
FL 4" PVC (S) 21.65

DETAIL 49
STM. SWR. MH.
TR=22.66
FL 12" RCP (W) 16.56
FL 12" RCP (W) 16.52
FL 18" RCP (SW) 16.52

DETAIL 50
"BB" INLET
TC=21.46
FL 12" PVC (W) 15.74
FL 12" PVC (NW) 16.94

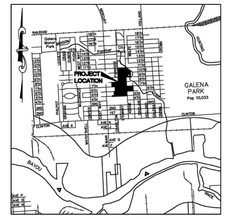
DETAIL 51
STM. SWR. MH.
TR=22.57
FL 18" RCP (NE) 16.10
FL 30" RCP (SW) 15.20
FL 12" HDP (W) 17.80

DETAIL 52
"C" INLET
TR=21.54
FL 18" RCP (NW) 15.28
FL 18" RCP (N) 15.14

DETAIL 53
SAN. SWR. MH.
TR=22.16
FL 15" PVC (N) 9.85
FL 12" PVC (NE) 17.34
FL 10" PVC (E) 12.56
FL 12" PVC (S) 9.66

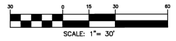
DETAIL 54
SAN. SWR. MH.
TR=21.71
FL 12" PVC (N) 9.11
FL 12" PVC (S) 9.33

VICINITY MAP



KEY MAP 496W
SCALE 1" = 3000'





SCALE: 1"= 30'

LEGEND

- AIR CONDITIONING UNIT
- "B" INLET
- "BB" INLET
- BENCHMARK
- BOLLARD
- "C" INLET
- CLEANOUT
- DOWN SPOUT
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GATE POST
- GRATE TOP MANHOLE
- GREASE TRAP
- GUY WIRE
- HOSE BIB
- INLET
- IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MAILBOX
- MANHOLE
- PAINT MARKER (COMMUNICATIONS)
- PAINT MARKER (ELECTRIC)
- PAINT MARKER (GAS)
- PEDESTAL
- PIPELINE MARKER
- POWER POLE
- SAMPLE WELL
- SIGN
- STAND PIPE
- TRASH CAN
- WATER METER
- WATER VALVE

SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

2. ACCORDING TO F.I.R.M. MAP NO. 48201C0905M (COMMUNITY-PANEL NO. 480293905M), MAP REVISED DATE: JANUARY 6, 2017. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "X" SHADED. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

3. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON-SITE OBSERVATION UNLESS OTHERWISE NOTED.

4. ⊣ INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB-OUT.

5. UNDERGROUND UTILITY LOCATIONS PROVIDED BY LONESTAR LOCATING, LLC. PAINT MARKS WITH NUMERIC VALUES INDICATES COVER (FEET AND INCHES) DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY TRANSMISSION SIGNAL.

6. SUBJECT TRACT IS AFFECTED BY GALENA PARK CODE OF ORDINANCES AND IS ZONED AS "DISTRICT C".

7. Ⓡ INDICATES RECORD UTILITIES PLOTTED FROM MAPS PREPARED BY BROOKS & SPARKS, INC. PROJECT NO. 725-0147, DATED JANUARY 2022.

REFERENCE BENCHMARK:

RM070475 – BRASS DISK STAMPED "PAN CR 5 1968" LOCATED ON THE NORTHWEST CORNER OF BRIDGE ON CLINTON DRIVE OVER PANTHER CREEK IN KEY MAP 496X IN THE SAN JACINTO RIVER WATERSHED NEAR STREAM 112-00-00. ELEVATION=11.58' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "E" – BOX CUT ON THE NORTHWEST CORNER OF "C" INLET LOCATED AT THE NORTHWEST CORNER OF KEENE STREET AND 7TH STREET.
ELEVATION=20.94'

TBM "A2" – BOX CUT ON NORTHEAST CORNER OF CONCRETE SURROUNDING GRATE INLET.
ELEVATION=23.01'

ABBREVIATIONS

C.L.F.–CHAIN LINK FENCE
CBC–CONCRETE BOX CULVERT
CMC–CREPE MYRTLE CLUSTER
CMP–CORRUGATED METAL PIPE
CONC.–CONCRETE
ESMT.–EASEMENT
FC–FILM CODE
FDC–FIRE DEPARTMENT CONNECT
FF–FINISH FLOOR
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H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
I.P.–IRON PIPE
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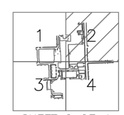
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PG.–PAGE
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT-OF-WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TRF–PAD MOUNTED TRANSFORMER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
U.E.–UTILITY EASEMENT
UGV–UNDERGROUND VAULT
VOL.–VOLUME
W.I.F.–WROUGHT IRON FENCE
W.L.E.–WATER LINE EASEMENT
W.F.–WOOD FENCE

GALENA PARK
INDEPENDENT
SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

GALENA PARK
HIGH SCHOOL
OUT OF THE
EZEKIEL THOMAS SURVEY
ABSTRACT NO. 73
CITY OF GALENA PARK,
HARRIS COUNTY, TEXAS



SHEET 2 OF 4

TO: GALENA PARK INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

JOEL B. WALKER
5189
REGISTERED
PROFESSIONAL
LAND SURVEYOR
STATE OF TEXAS

5/7/25
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

WEST BELT
SURVEYING, INC.
21020 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-9288
FAX: (281) 492-0020
CERTIFIED FIRM NO. 100758000

NO.	DATE	REVISIONS	BY
2	5/7/25	ADDRESSED COMMENTS	DB
1	4/17/25	ADDED NOTE 7 AND RECORD UTILITIES	DB

DRAWN BY: DB | CHECKED BY: MDL
SCALE: 1"=30' | APPROVED BY: JDW
PROJECT NO. S425-0061C | DATE: APRIL 8, 2025

PBK
www.pbk.com
TX FIRM REGISTRATION NO. 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
GALENA PARK ISD

DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY:RKR

DRAWN BY: JW

SURVEY (FOR INFORMATION ONLY)

C 002B

07 May 2025 8:53AM darrenb
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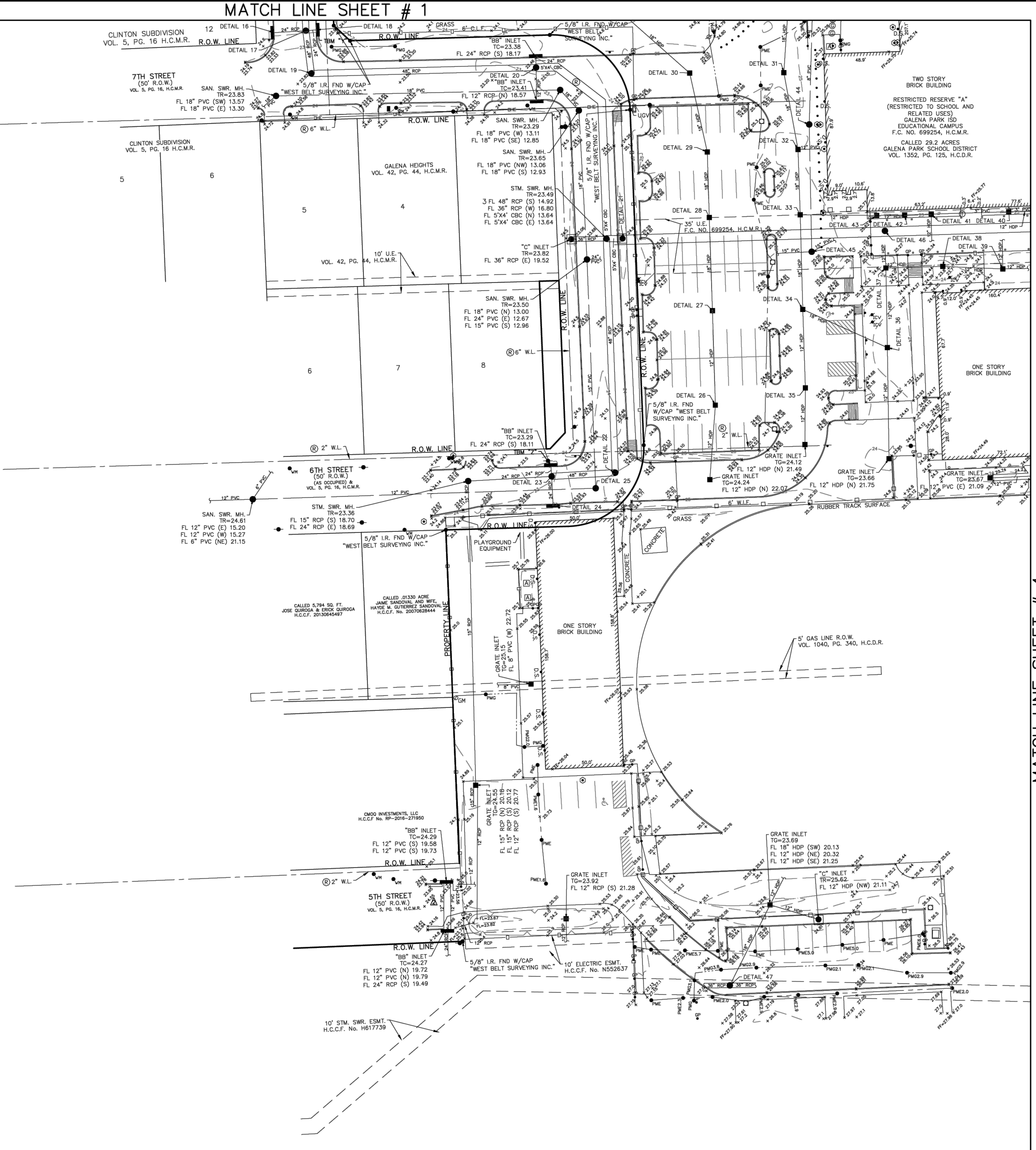
B:\240539 - GPHS MP\FOC\DIG\Building Addition Phase 3B\Dwgs\C 002B SURVEY (FOR INFORMATION ONLY).dwg Last Saved: JWHATLEY
Thursday, November 6, 2025 10:28:30 AM

MATCH LINE SHEET # 1

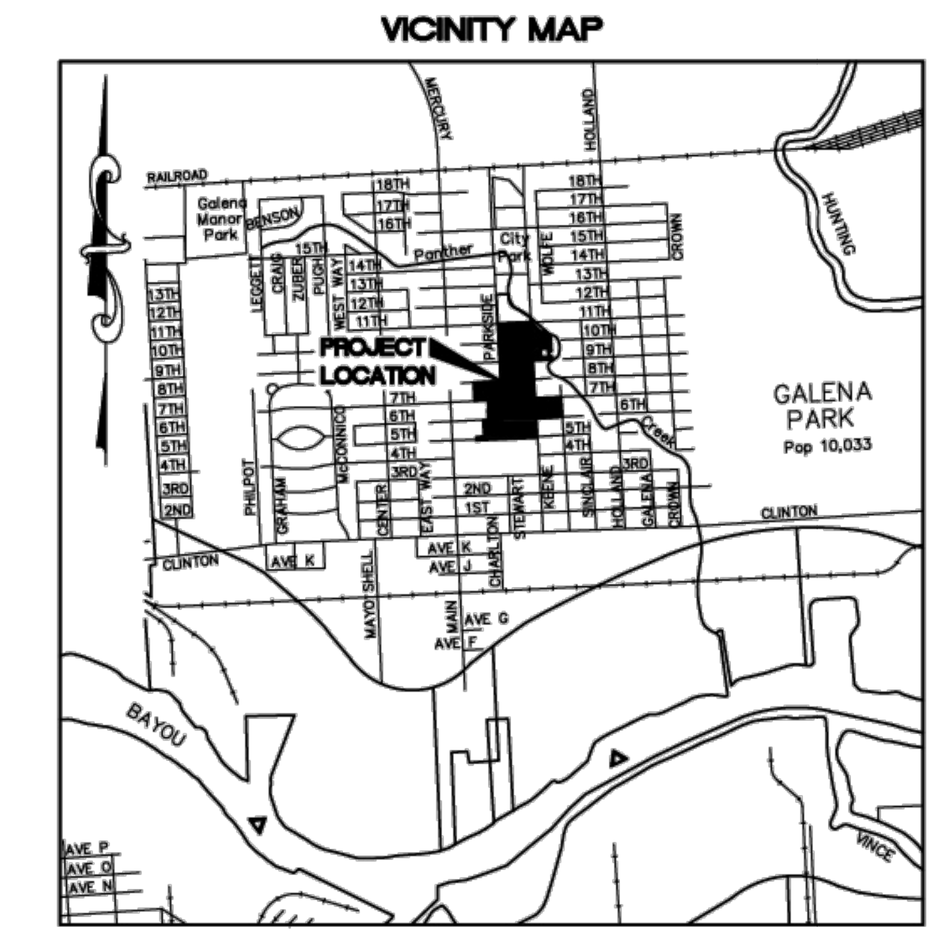
DETAILS

DETAIL 16 "BB" INLET TC=23.51 FL 24" RCP (E) 18.31	DETAIL 33 GRATE INLET TG=24.39 FL 18" HDP (N) 17.72 FL 12" HDP (E) 21.10 FL 18" HDP (S) 14.69
DETAIL 17 STM. SWR. MH. TR=23.05 FL 48" RCP (S) 14.29 FL 24" RCP (W) 17.43 FL 48" RCP (N) 14.46 FL 24" RCP (E) 17.25	DETAIL 34 GRATE INLET TG=24.09 FL 18" HDP (N) 15.24 FL 18" HDP (SE) 20.07 FL 12" HDP (S) 19.89
DETAIL 18 "BB" INLET TC=23.45 FL 24" RCP (W) 18.55	DETAIL 35 GRATE INLET TG=24.08 FL 12" HDP (N) 20.80 FL 12" HDP (S) 21.07
DETAIL 19 STM. SWR. MH. TR=23.58 FL 48" RCP (E) 14.31 FL 48" RCP (N) 14.35	DETAIL 36 GRATE INLET TG=23.28 FL 12" HDP (S) 20.34 FL 18" HDP (NW) 20.22 FL 12" HDP (N) 20.33
DETAIL 20 STM. SWR. MH. TR=22.90 FL 12" RCP (S) 17.54 FL 48" RCP (W) 14.18 FL 24" RCP (N) 17.41 FL 5'X4' CBC (E) 14.00	DETAIL 37 GRATE INLET TG=23.62 FL 12" HDP (S) 20.70 FL 12" HDP (N) 20.93 FL 12" HDP (E) 20.75
DETAIL 21 "C" INLET TR=23.85 FL 5'X4' CBC (W) 19.49	DETAIL 38 GRATE INLET TG=23.40 FL 12" HDP (W) 20.96 FL 12" HDP (E) 20.83
DETAIL 22 STM. SWR. MH. TR=23.58 FL 48" RCP (W) 16.44 FL 48" RCP (N) 15.61	DETAIL 39 GRATE INLET TG=23.42 FL 12" HDP (W) 20.91 FL 12" HDP (N) 21.20 FL 12" HDP (E) 21.02
DETAIL 23 STM. SWR. MH. TR=23.01 FL 24" RCP (W) 17.61 FL 24" RCP (N) 17.50 FL 48" RCP (E) 16.52 FL 24" RCP (S) 17.47	DETAIL 40 GRATE INLET TG=24.82 FL 3" PVC (W) 22.53 FL 3" PVC (N) 22.57 FL 12" HDP (E) 22.06
DETAIL 24 "BB" INLET TC=23.31 FL 24" RCP (N) 18.29	DETAIL 41 GRATE INLET TG=24.80 FL 12" HDP (W) 21.98 FL 3" PVC (E) 22.90 FL 12" HDP (S) 21.95
DETAIL 25 SAN. SWR. MH. TR=23.36 FL 15" PVC (N) 13.44 FL 12" PVC (W) 13.57	DETAIL 42 GRATE INLET TG=24.87 FL 12" HDP (W) 21.86 FL 12" HDP (E) 21.97
DETAIL 26 GRATE INLET TG=24.11 FL 12" HDP (S) 21.73 FL 12" HDP (N) 21.66	DETAIL 43 GRATE INLET TG=24.81 FL 12" HDP (W) 21.74 FL 12" HDP (E) 21.90
DETAIL 27 GRATE INLET TG=24.00 FL 12" HDP (S) 21.22 FL 18" HDP (N) 16.81 (BOTTOM SILTED)	DETAIL 44 SAN. SWR. MH. TR=25.16 FL 8" PVC (S) 12.89 FL 8" PVC (N) 18.20 FL 6" PVC (E) 21.54 FL 8" PVC (E) 13.18
DETAIL 28 GRATE INLET TG=24.41 FL 18" HDP (S) 15.09 FL 18" HDP (N) 18.07	DETAIL 45 SAN. SWR. MH. TR=24.47 FL 15" PVC (NE) 12.67 FL 15" PVC (W) 12.52 FL 8" PVC (N) 12.50
DETAIL 29 GRATE INLET TG=24.50 FL 18" HDP (S) 18.09 FL 18" HDP (NW) 18.12	DETAIL 46 SWR. MH. TR=25.50 MEASURE TO BOTTOM=13.92 (PIPES RECESSED & NOT VISIBLE)
DETAIL 30 GRATE INLET TG=24.29 FL 18" HDP (SE) 18.67 FL 18" HDP (NW) 18.66	DETAIL 47 STM. SWR. MH. TR=26.48 FL 18" HDP (NE) 19.42 FL 36" RCP (E) 18.82 FL 36" RCP (W) 18.71
DETAIL 31 GRATE INLET TG=24.77 FL 18" HDP (NE) 18.58 FL 18" HDP (SE) 18.60	
DETAIL 32 GRATE INLET TG=24.78 FL 18" HDP (NW) 18.37 FL 12" PVC (E) 20.60 FL 18" HDP (S) 17.88	



MATCH LINE SHEET # 4

VICINITY MAP



KEY MAP 496W
SCALE 1" = 3000'

SCALE: 1"= 30'

LEGEND

- AIR CONDITIONING UNIT
- "B" INLET
- "BB" INLET
- BENCHMARK
- BOLLARD
- "C" INLET
- CLEANOUT
- DOWN SPOUT
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GATE POST
- GRATE TOP MANHOLE
- GREASE TRAP
- GUY WIRE
- HOSE BIB
- INLET
- IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MAILBOX
- MANHOLE
- PAINT MARKER (COMMUNICATIONS)
- PAINT MARKER (ELECTRIC)
- PAINT MARKER (GAS)
- PEDESTAL
- PIPELINE MARKER
- POWER POLE
- SAMPLE WELL
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- STAND PIPE
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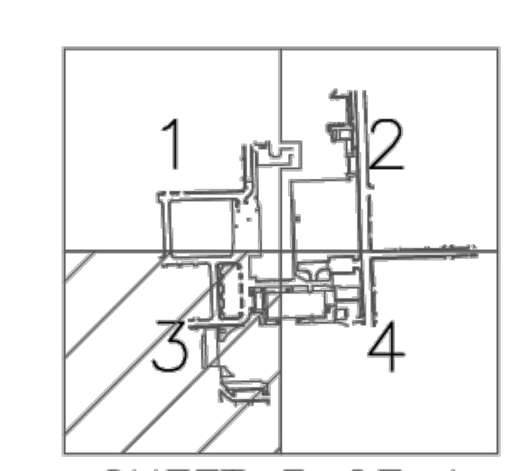

SHEET 3 OF 4

TO: GALENA PARK INDEPENDENT SCHOOL DISTRICT

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STATE OF TEXAS REGISTERED JOEL D. WALKER 5189 PROFESSIONAL LAND SURVEYOR

5/7/25
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

2. ACCORDING TO F.I.R.M. MAP NO. 48201C0905M (COMMUNITY-PANEL NO. 4802930905M), MAP REVISED DATE: JANUARY 6, 2017. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "X" SHADED. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

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REFERENCE BENCHMARK:

RM070475 – BRASS DISK STAMPED "PAN CR 5 1968" LOCATED ON THE NORTHWEST CORNER OF BRIDGE ON CLINTON DRIVE OVER PANTHER CREEK IN KEY MAP 496X IN THE SAN JACINTO RIVER WATERSHED NEAR STREAM 112-00-00. ELEVATION=11.58' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "Y" – BOX CUT ON "BB" INLET LOCATED ON THE NORTH SIDE OF 7TH STREET AND EAST SIDE OF PARKSIDE DRIVE. ELEVATION=23.48'

TBM "Z" – BOX CUT ON "BB" INLET LOCATED ON THE NORTH SIDE OF 6TH STREET AND WEST SIDE OF PARKSIDE DRIVE. ELEVATION=23.29'

ABBREVIATIONS

C.L.F.–CHAIN LINK FENCE
CBC–CONCRETE BOX CULVERT
CMC–CREPE MYRTLE CLUSTER
CMP–CORRUGATED METAL PIPE
CONC.–CONCRETE
ESMT.–EASEMENT
FC–FILM CODE
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FL–FLOW LINE
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H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
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R.O.W.–RIGHT-OF-WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TRF–PAD MOUNTED TRANSFORMER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
U.E.–UTILITY EASEMENT
UGV–UNDERGROUND VAULT
VOL.–VOLUME
W.I.F.–WROUGHT IRON FENCE
W.L.E.–WATER LINE EASEMENT
W.F.–WOOD FENCE

GALENA PARK INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

GALENA PARK HIGH SCHOOL OUT OF THE EZEKIEL THOMAS SURVEY ABSTRACT NO. 73 CITY OF GALENA PARK, HARRIS COUNTY, TEXAS

WEST BELT SURVEYING, INC.
21020 PARK ROW, KATY, TX. 77449
PHONE: (281) 599-8288 FAX: (281) 492-6026
CERTIFIED FIRM NO. 10073800

NO.	DATE	REVISIONS	BY
2	5/7/25	ADDRESSED COMMENTS	DB
1	4/17/25	ADDED NOTE 7 AND RECORD UTILITIES	DB

DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S425-0061C	DATE: APRIL 8, 2025

07 May 2025 8:53AM darrenb
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B:\24\240539 - GPHS MP\FOC\DIG\Building Addition Phase 3B\Dwgs\C 002C SURVEY (FOR INFORMATION ONLY).dwg Last Saved: JWHATLEY
Thursday, November 6, 2025 10:28:06 AM

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT	
GALENA PARK ISD	
DATE DECEMBER 05, 2025	PROJECT NUMBER 240539

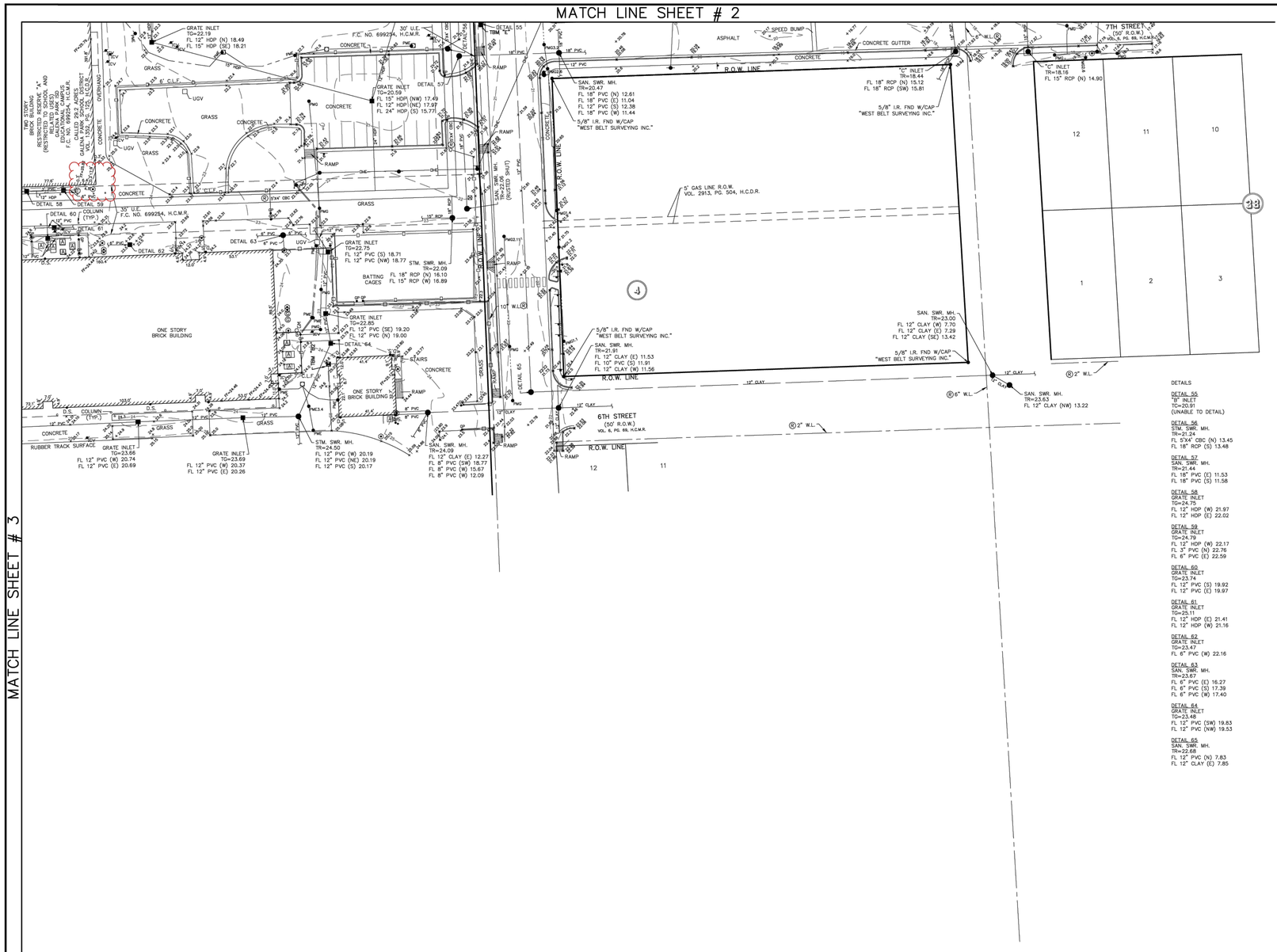
DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR
DRAWN BY: JW

SURVEY (FOR INFORMATION ONLY)

C 002C



DETAILS

DETAIL 55
"B" INLET
TC=20.91
(UNABLE TO DETAIL)

DETAIL 56
STM. SWR. MH.
TR=21.24
FL 5'X4' CBC (N) 13.45
FL 18" RCP (S) 13.48

DETAIL 57
SAN. SWR. MH.
TR=21.44
FL 18" PVC (E) 11.53
FL 18" PVC (S) 11.58

DETAIL 58
GRATE INLET
TG=24.75
FL 12" HDP (W) 21.97
FL 12" HDP (E) 22.02

DETAIL 59
GRATE INLET
TG=24.79
FL 12" HDP (W) 22.17
FL 3" PVC (N) 22.76
FL 6" PVC (E) 22.59

DETAIL 60
GRATE INLET
TG=23.74
FL 12" PVC (S) 19.92
FL 12" PVC (E) 19.97

DETAIL 61
GRATE INLET
TG=25.11
FL 12" HDP (E) 21.41
FL 12" HDP (W) 21.16

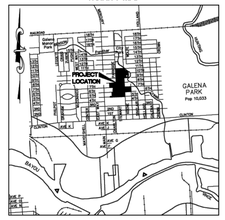
DETAIL 62
GRATE INLET
TG=23.47
FL 6" PVC (W) 22.16

DETAIL 63
SAN. SWR. MH.
TR=23.67
FL 6" PVC (E) 16.27
FL 6" PVC (S) 17.39
FL 6" PVC (W) 17.40

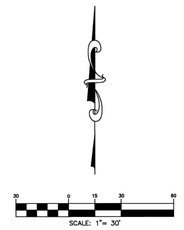
DETAIL 64
GRATE INLET
TG=23.48
FL 12" PVC (SW) 19.83
FL 12" PVC (NW) 19.53

DETAIL 65
SAN. SWR. MH.
TR=22.68
FL 12" PVC (N) 7.83
FL 12" CLAY (E) 7.85

VICINITY MAP



KEY MAP 496W
SCALE 1" = 3000'



LEGEND

- A AIR CONDITIONING UNIT
- "B" INLET
- "BB" INLET
- BENCHMARK
- BOLLARD
- "C" INLET
- CLEANOUT
- D.S. DOWN SPOUT
- ELECTRIC JUNCTION BOX
- FIRE HYDRANT
- O_{GM} GAS METER
- GAS VALVE
- GATE POST
- GRATE TOP MANHOLE
- GREASE TRAP
- GUY WIRE
- HOSE BIB
- INLET
- O_{IRV} IRRIGATION CONTROL VALVE
- LIGHT STANDARD
- MAILBOX
- MANHOLE
- O_{PMC} PAINT MARKER (COMMUNICATIONS)
- O_{PME} PAINT MARKER (ELECTRIC)
- O_{PMG} PAINT MARKER (GAS)
- PEDESTAL
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- SAMPLE WELL
- SIGN
- STAND PIPE
- TRASH CAN
- O_{WM} WATER METER
- WATER VALVE

SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

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4. → INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

5. UNDERGROUND UTILITY LOCATIONS PROVIDED BY LONESTAR LOCATING, LLC. PAINT MARK'S WITH NUMERIC VALUES INDICATES COVER (FEET AND INCHES) DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY TRANSMISSION SIGNAL.

6. SUBJECT TRACT IS AFFECTED BY GALENA PARK CODE OF ORDINANCES AND IS ZONED AS "DISTRICT C".

7. Ⓡ INDICATES RECORD UTILITIES PLOTTED FROM MAPS PREPARED BY BROOKS & SPARKS, INC. PROJECT NO. 725–0147, DATED JANUARY 2022.

REFERENCE BENCHMARK:

RM070475 – BRASS DISK STAMPED "PAN OR 5 1968" LOCATED ON THE NORTHWEST CORNER OF BRIDGE ON CLINTON DRIVE OVER PANTHER CREEK IN KEY MAP 496X IN THE SAN JACINTO RIVER WATERSHED NEAR STREAM 112–00–00. ELEVATION=11.58' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "E" – BOX CUT ON THE NORTHWEST CORNER OF "C" INLET LOCATED AT THE NORTHWEST CORNER OF KEENE STREET AND 7TH STREET.
ELEVATION=20.94'

TBM "B2" – BOX CUT ON CONCRETE LOCATED ±7' SOUTHWEST FROM THE NORTHWEST CORNER OF THE CONCESSION STAND.
ELEVATION=25.07'

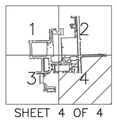
ABBREVIATIONS

C.L.F.–CHAIN LINK FENCE
CBC–CONCRETE BOX CULVERT
CMC–CREPE MYRTLE CLUSTER
CMP–CORRUGATED METAL PIPE
CONC.–CONCRETE
ESMT.–EASEMENT
FC–FILM CODE
FDC–FIRE DEPARTMENT CONNECT
FF–FINISH FLOOR
FL–FLOW LINE
FND.–FOUND
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
I.P.–IRON PIPE
I.R.–IRON ROD
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
PG.–PAGE
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT–OF–WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TRF–PAD MOUNTED TRANSFORMER
TG–TOP OF GRATE
TR–TOP OF RIM
TYP.–TYPICAL
U.E.–UTILITY EASEMENT
UGV–UNDERGROUND VAULT
VOL.–VOLUME
W.I.F.–WROUGHT IRON FENCE
W.L.E.–WATER LINE EASEMENT
W.F.–WOOD FENCE

GALENA PARK INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

GALENA PARK HIGH SCHOOL OUT OF THE EZEKIEL THOMAS SURVEY ABSTRACT NO. 73 CITY OF GALENA PARK, HARRIS COUNTY, TEXAS



SHEET 4 OF 4

TO: GALENA PARK INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

JOEL D. WALKER
5189
REGISTERED PROFESSIONAL LAND SURVEYOR

5/7/25
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

WEST BELT
SURVEYING, INC.
21020 PARK ROW
KATY, TX. 77449
PHONE: (281) 599–9288
FAX: (281) 492–6020
CERTIFIED FIRM NO. 10073800

NO.	DATE	REVISIONS	BY
2	5/7/25	ADDRESSED COMMENTS	DB
1	4/17/25	ADDED NOTE 7 AND RECORD UTILITIES	DB

DRAWN BY: DB	CHECKED BY: MDL
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S425–0061C	DATE: APRIL 8, 2025

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HOUSTON, TX
713-865-6008

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
GALENA PARK ISD

DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY:RKR

DRAWN BY: JW

SURVEY (FOR INFORMATION ONLY)

C 002D

07 May 2025 8:53AM dorremb
G:\stsk\proj\S425006IC\DWG\T050625.dwg

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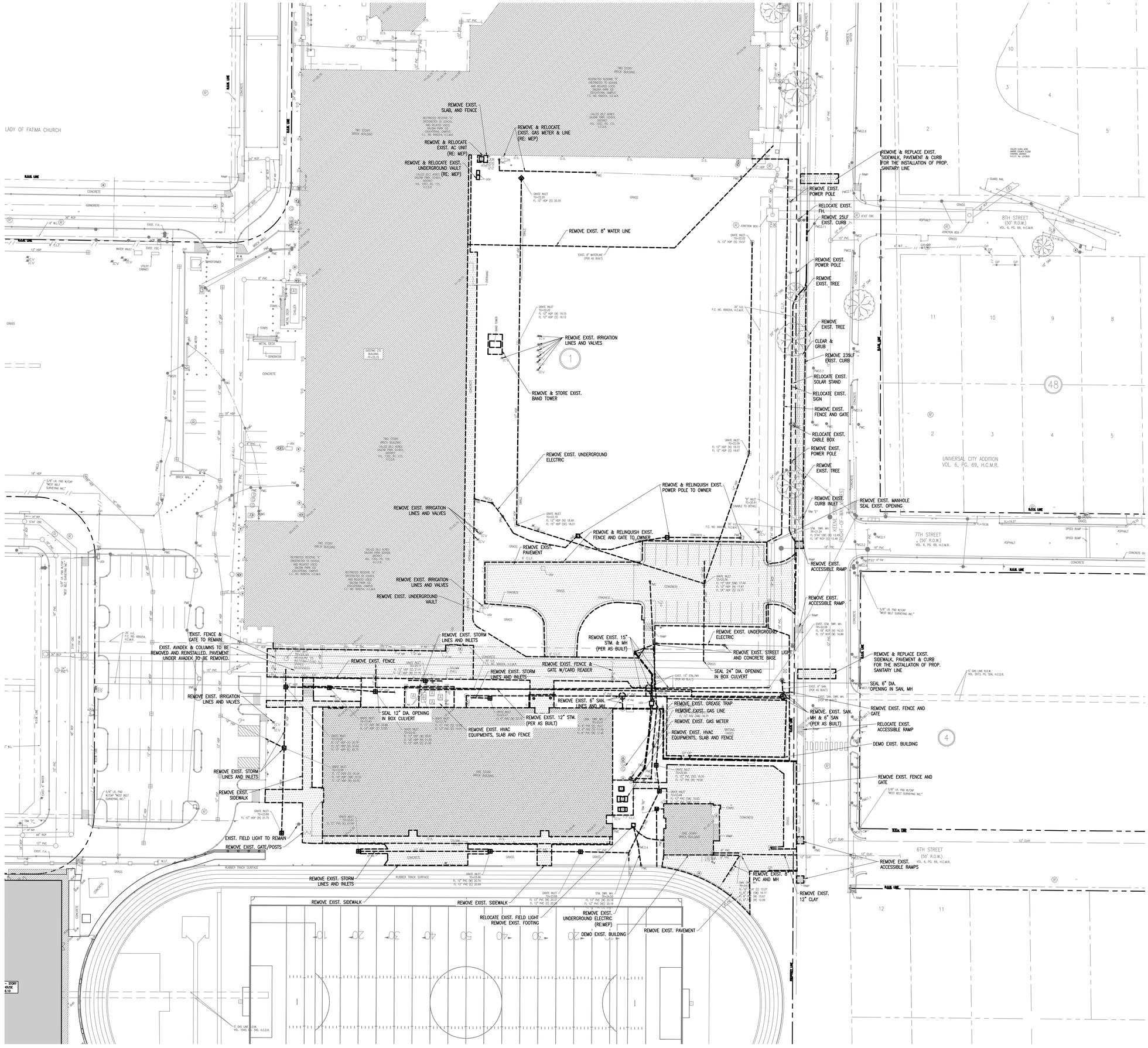

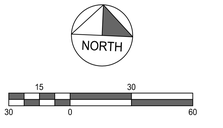

NOTES TO SHEET

1. CONTRACTOR TO COORDINATE SALVAGED ITEMS WITH OWNER PRIOR TO REMOVAL

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ISSUE FOR PROPOSAL

Galena Park ISD

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
12/05/2025

ENGINEERS F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY:RKR

DRAWN BY: JW

DEMOLITION PLAN

C 003

B:\24\240539 - GPHS MP\FOCUS\DIG\Building Addition Phase 3B\Dwgs\C 003 DEMOLITION PLAN.dwg Last Saved: JWHATLEY
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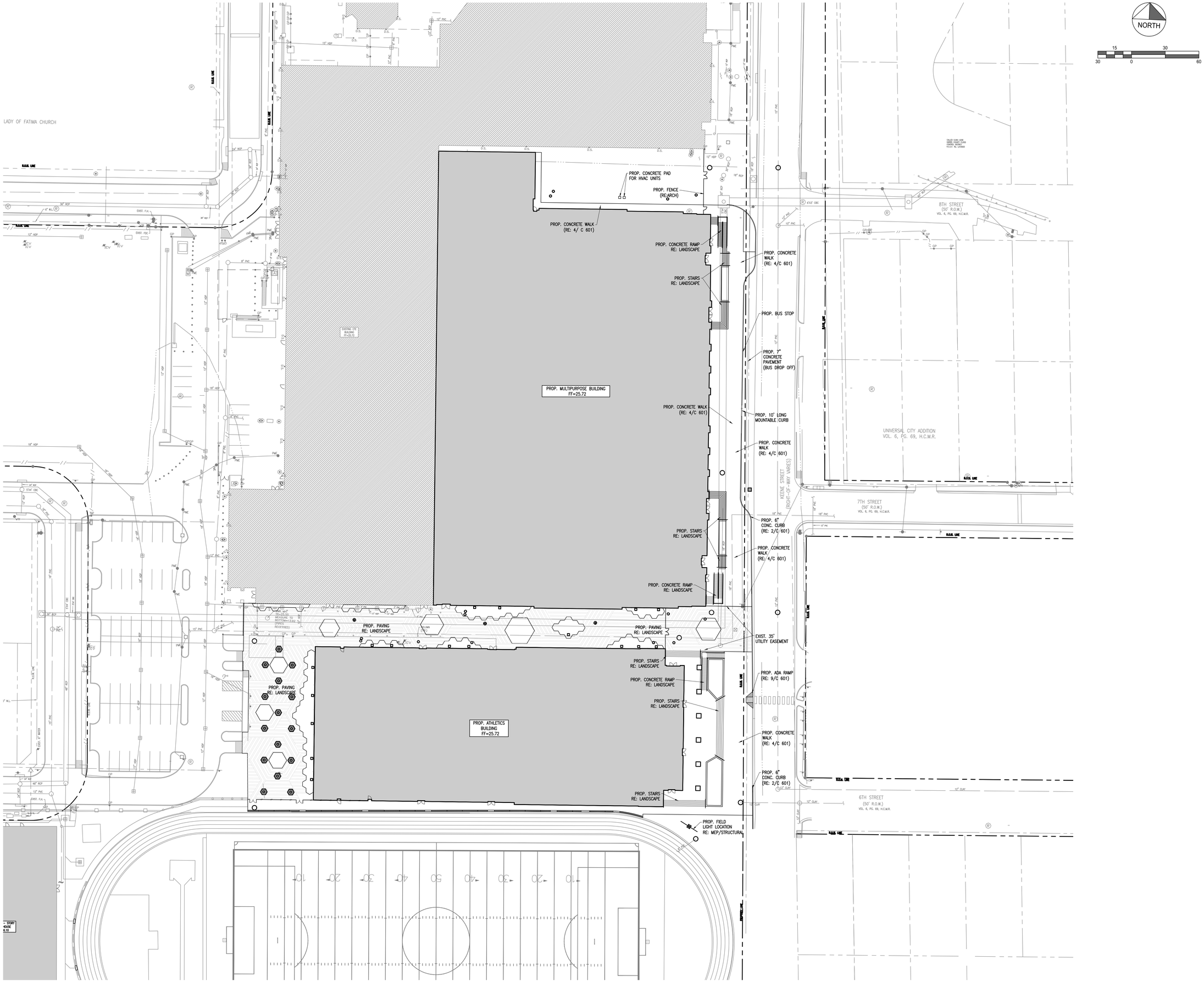

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Wednesday, December 3, 2025 4:58:57 PM

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STATE OF TEXAS
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12/05/2025
DIG ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

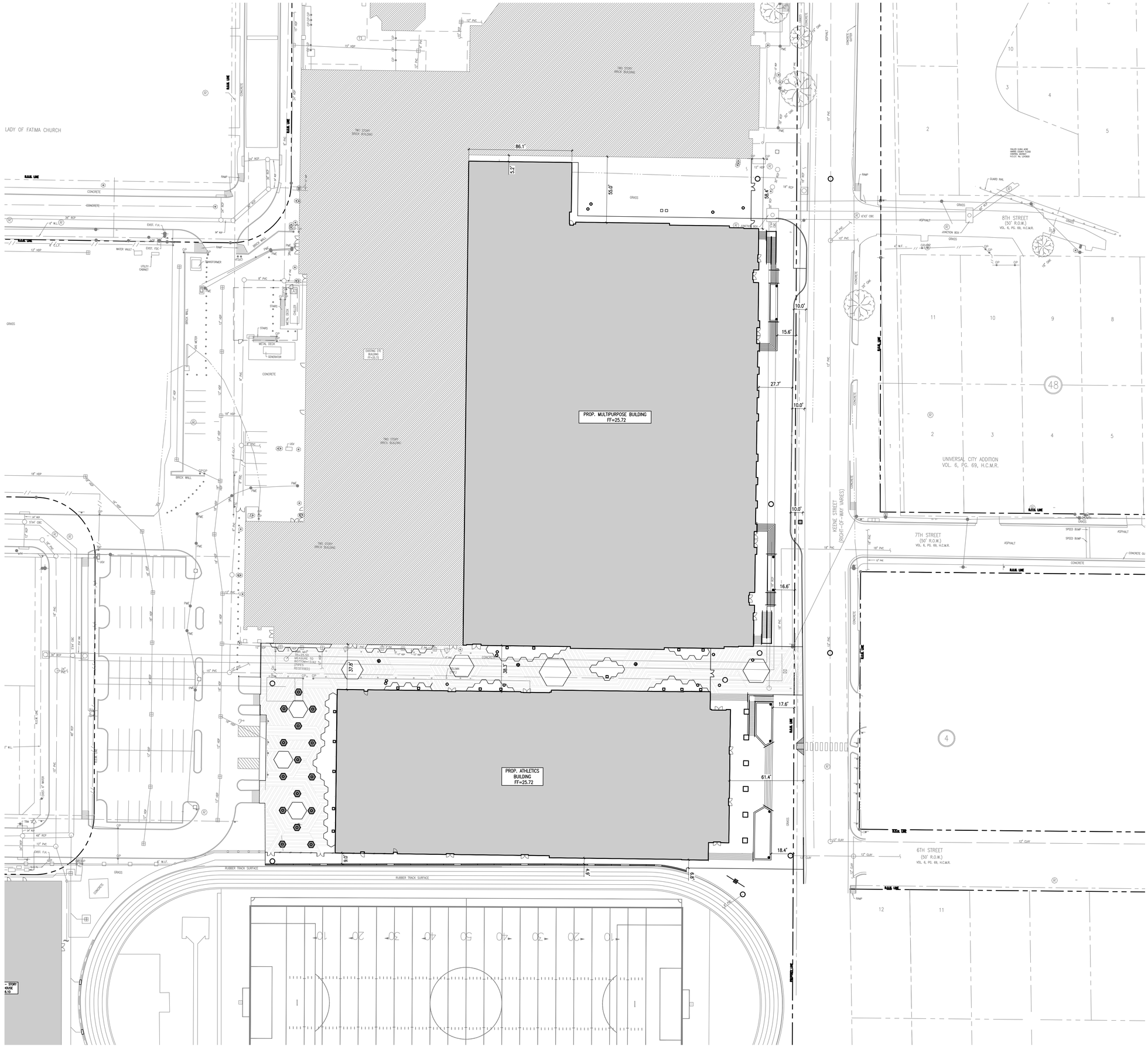
DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR
DRAWN BY: JW

SITE PLAN

C 101



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DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR
DRAWN BY: JW

DIMENSIONAL CONTROL PLAN

C 102

B:\24\240539 - GPHS MPF\OCD\G\Building Addition Phase 3B\Dwgs\C 102 DIMENSIONAL CONTROL PLAN.dwg Last Saved: JWHATLEY
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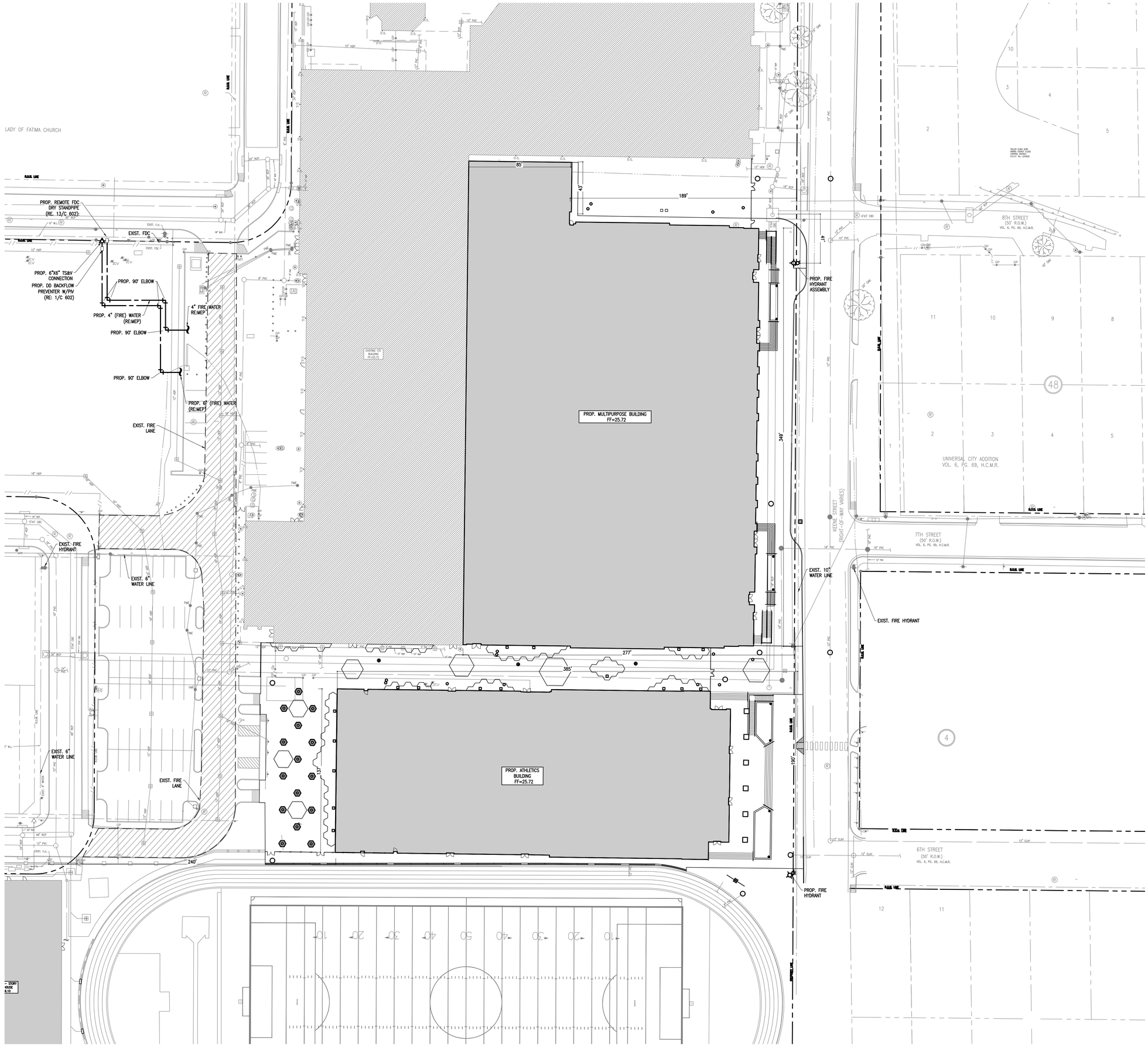

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DRAWING HISTORY

No.	Description	Date

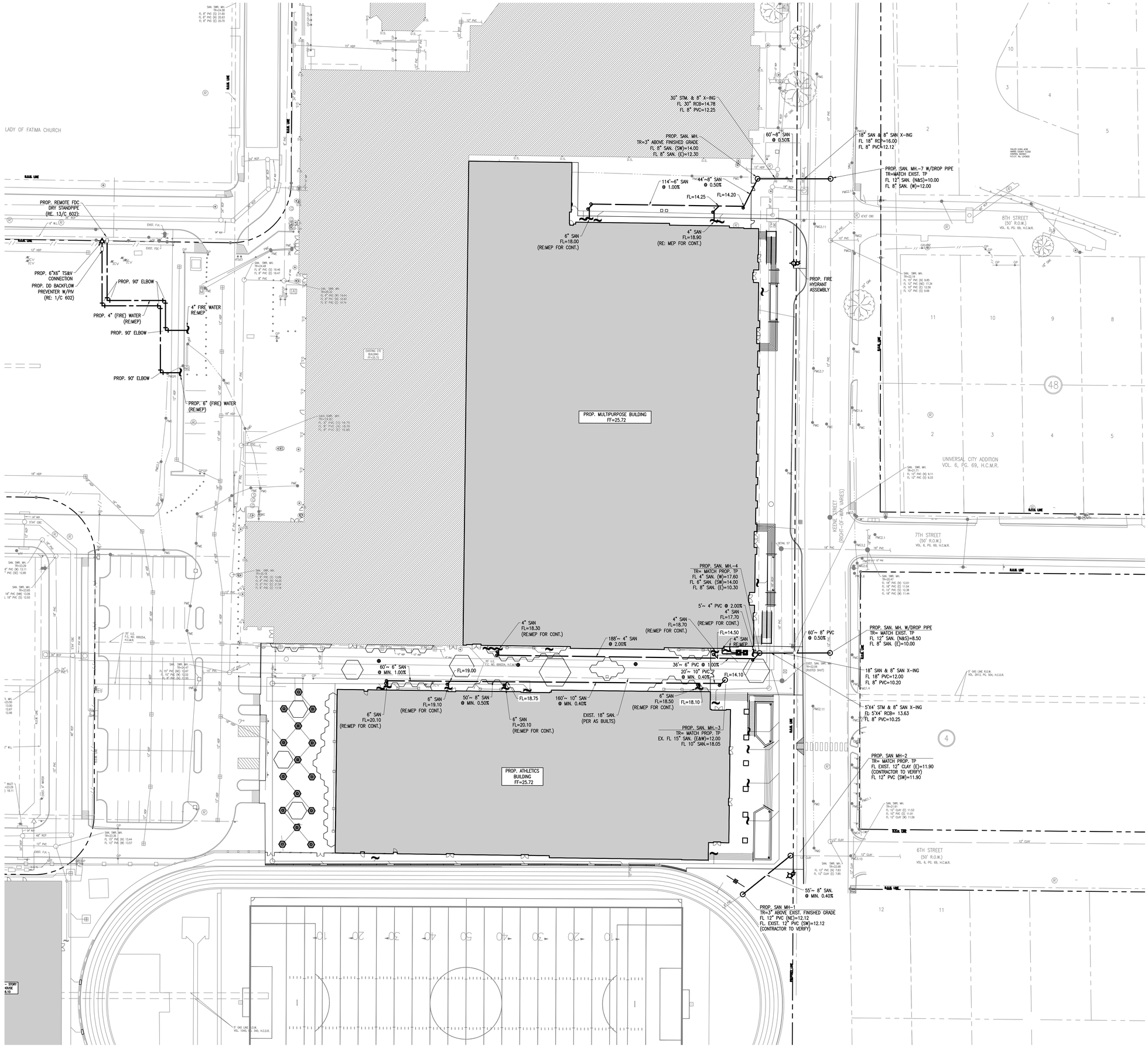
CHECKED BY: RKR

DRAWN BY: JW

FIRE APPARATUS PLAN

C 103

B:\24\240539 - GPHS MP\FOCD\IG\Building Addition Phase 3B\Dwgs\C 103 FIRE APPARATUS PLAN.dwg Last Saved: JWHATLEY
Thursday, December 4, 2025 11:04:15 AM



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GALENA PARK ISD	
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DRAWING HISTORY

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DRAWN BY: JW

UTILITY PLAN

C 201

NORTH

15 30
30 0 60

LADY OF FATIMA CHURCH

PROP. MULTIPURPOSE BUILDING
FF=25.72

PROP. ATHLETICS BUILDING
FF=25.72

EXIST. STM. MH
TR=3" ABOVE FINISHED GRADE
FL EXIST. 5'X4' RCB (S&E)=16.10
FL EXIST. 30 RCP (N)=16.50
FL 30" HDPE (W)=17.70

40'~ 30" HDPE @ 0.25%
FL=20.00
FL=19.90
FL=17.80
158'~24" STM @ 0.25%
12" STM. FL=20.80 (RE:MEP FOR CONT.)
12" STM. FL=20.20 (RE:MEP FOR CONT.)
10" STM. FL=20.80 (RE:MEP FOR CONT.)
8" STM. FL=18.00 (RE:MEP FOR CONT.)
8'~10" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=14.00
10" STM. FL=17.70 (RE:MEP FOR CONT.)
PROP. MH-X TR=MATCH TP EXIST. 5'X4' RCB FL=13.45
AL-1 TC=20.00 FL=MATCH EXIST.
10'~10" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=14.00
10" STM FL= 17.70 (RE:MEP FOR CONT.)
12'~18" HDPE CONNECT TO EXIST. BOX CULVERT FL=15.00
8" STM. FL=18.00 (RE:MEP FOR CONT.)
4" PVC
10" STM. FL=20.80 (RE:MEP FOR CONT.)
10'~ 24" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=15.00
14'~ 12" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=15.00
CONNECT TO EXIST. BOX CULVERT FL=13.63
EXIST. STM. MH TR=MATCH PROP. TP FL EXIST 18" PVC (N)=16.10 FL 10" HDPE (S)=18.00
11'~ 18" HDPE
42'~10" HDPE @ 0.25%
45'~ 30" HDPE
FL=18.20
FL=17.70
15'~ 30" HDPE @ 0.25%
FL=17.75
30'~ 24" HDPE @ 0.25%
FL=17.85
30'~ 24" HDPE @ 0.25%
FL=17.95
95'~ 18" HDPE @ 0.25%
CONNECT TO EXIST. STM. SWR. FL (S)=15.00
18'~ 24" HDPE @ 0.25%
12'~6" HDPE @ 1.00%
FL=19.20
FL=19.90
FL=19.10
FL=19.00
68'~6" HDPE @ 1.00%
45'~6" HDPE @ 1.00%
52'~18" HDPE @ 0.25%
38'~12" HDPE @ 0.25%
4" PVC
10" STM. FL=20.70 (RE:MEP FOR CONT.)
6" STM. FL=20.40 (RE:MEP FOR CONT.)
8" STM. FL=18.40 (RE:MEP FOR CONT.)
6" STM. FL=18.60 (RE:MEP FOR CONT.)
6" STM. FL=18.60 (RE:MEP FOR CONT.)
6" STM. FL=18.60 (RE:MEP FOR CONT.)
6" STM. FL=18.60 (RE:MEP FOR CONT.)
8" STM. FL=18.40 (RE:MAP FOR CONT.)
45'~ 12" HDPE @ 0.25%
FL=20.00
PROP. STM MH-2 TR=MATCH TP
24" HDPE (N) FL=15.05
18" HDPE (E) FL=18.80
10" HDPE (S) FL=18.55
FL=18.75
110'~10" STM @ 0.50%
PROP. STM MH-1 TR=MATCH PROP. TP
FL 10" HDPE (E&N)=19.30
8" STM. FL=21.00 (RE:MEP FOR CONT.)
CONNECT TO EXIST. 12" PVC FL=20.10 (CONTRACTOR TO FIELD VERIFY)
FL=21.55
FL=21.80
FL=19.85
FL=20.40
FL=21.00
40'~ 10" HDPE @ 0.50%
FL=19.50
FL=19.70
12'~ 6" HDPE @ 1.00%
44'~10" HDPE @ 0.50%
56'~6" HDPE @ 1.00%
56'~6" HDPE @ 1.00%
56'~6" HDPE @ 1.00%
25'~ 6" HDPE @ 1.00%
25'~ 12" PVC @ 0.25% MIN.
PROP. SLOTTED DRAIN (ACO SYSTEM 300 OR APPROVED EQUAL)
FL=18.20

8TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
7TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
6TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
UNIVERSAL CITY ADDITION VOL. 6, PG. 69, H.C.M.R.
KEENE ST. (RIGHT-OF-WAY VARIES)
RAIL LINE
5' GAS LINE R.O.W. VOL. 2913, PG. 504, H.C.D.R.
5' GAS LINE R.O.W. VOL. 1040, PG. 340, H.C.D.R.
EXISTING CMU BUILDING
EXISTING CONCRETE BUILDING
EXIST. F.H.
EXIST. FDC
EXIST. P.I.V.
EXIST. P.P.
EXIST. T.C.V.
EXIST. W.M.
EXIST. W.V.
EXIST. G.V.
EXIST. S.D.M.H.
EXIST. S.S.M.H.
EXIST. C.O.
EXIST. G.I.
EXIST. C.I.
EXIST. D.I.
EXIST. S.I.
EXIST. T.I.
EXIST. C.B.
EXIST. F.H.
EXIST. P.I.V.
EXIST. P.P.
EXIST. T.C.V.
EXIST. W.M.
EXIST. W.V.
EXIST. G.V.
EXIST. S.D.M.H.
EXIST. S.S.M.H.
EXIST. C.O.
EXIST. G.I.
EXIST. C.I.
EXIST. D.I.
EXIST. S.I.
EXIST. T.I.
EXIST. C.B.
5/8" I.R. FND W/CAP "WEST BELT SURVEYING INC."
30' U.E. P.C. NO. 699254, H.C.M.R.
1 STORY HOUSE EL=19.10

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ISSUE FOR PROPOSAL

Galena Park ISD

RAJEEB K. RAJBHANDARI
116968
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12/05/2025
ENGINEERS F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

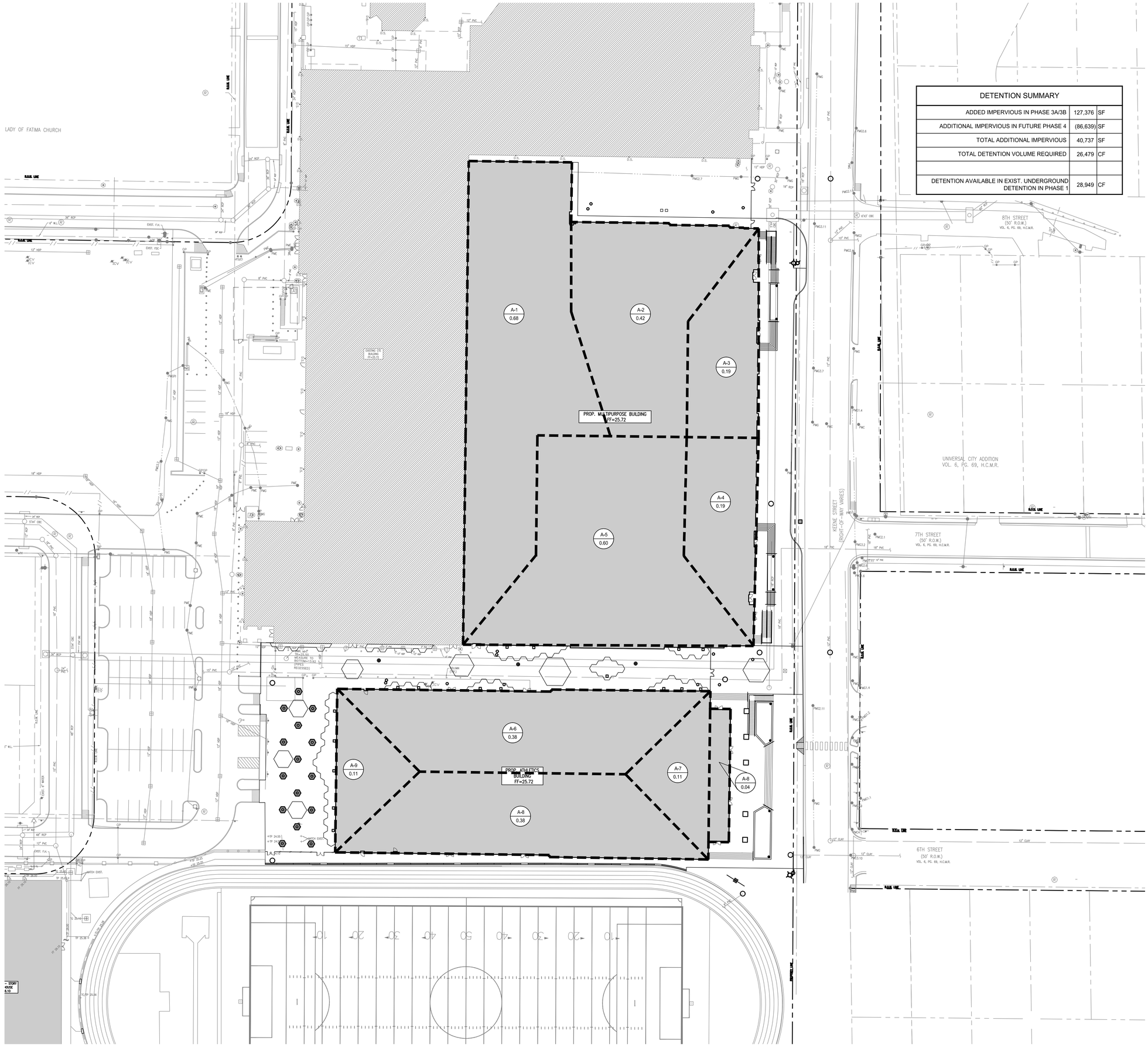
No.	Description	Date

CHECKED BY: RKR
DRAWN BY: JW

DRAINAGE PLAN

C 301

B:\24\240539 - GPHS MP\FOO\DIG\Building Addition Phase 3B\Dwgs\C 301 DRAINAGE PLAN.dwg Last Saved: JWHATLEY
Thursday, December 4, 2025 11:11:31 AM



DETENTION SUMMARY		
ADDED IMPERVIOUS IN PHASE 3A/3B	127,376	SF
ADDITIONAL IMPERVIOUS IN FUTURE PHASE 4	(86,639)	SF
TOTAL ADDITIONAL IMPERVIOUS	40,737	SF
TOTAL DETENTION VOLUME REQUIRED	26,479	CF
DETENTION AVAILABLE IN EXIST. UNDERGROUND DETENTION IN PHASE 1	28,949	CF

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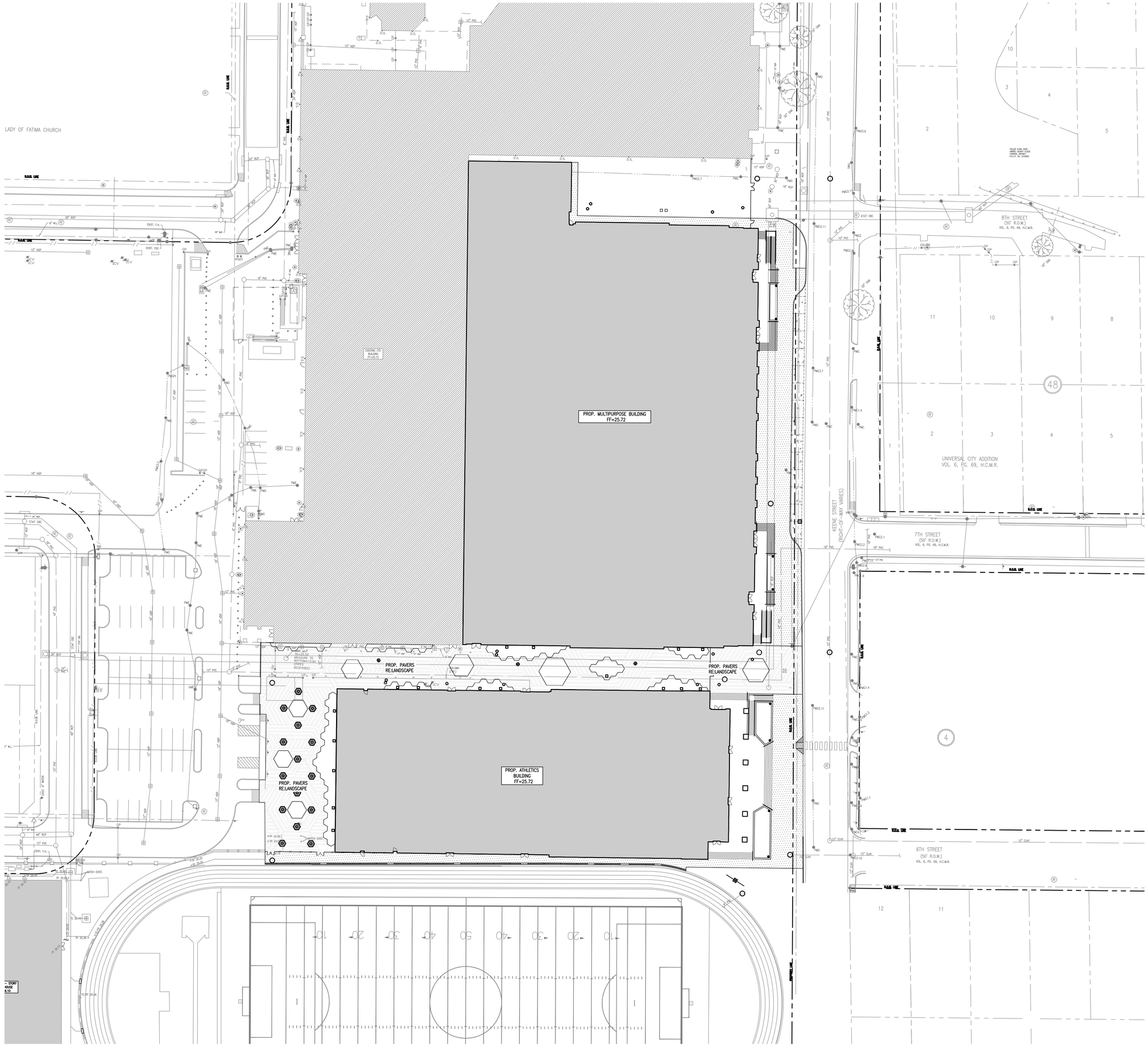
DRAINAGE AREA MAP

C 302

B:\24\240539 - GPHS MPF\OCD\G\Building Addition Phase 3B\Dwgs\C 302 DRAINAGE AREA MAP.dwg Last Saved: JWHATLEY
Thursday, December 4, 2025 9:28:30 AM


NORTH
15
30
30
0
60
LADY OF FATIMA CHURCH
PROP. MULTIPURPOSE BUILDING
FF=25.72
PROP. ATHLETICS
BUILDING
FF=25.72
RE: LANDSCAPE FOR PROP.
GRADING FOR PASEO
8TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.
7TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.
6TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.
UNIVERSAL CITY ADDITION
VOL. 6, PG. 69, H.C.M.R.
KEENE STREET
(RIGHT-OF-WAY VARIES)
RAIL LINE
EXISTING DE
BUILDING
FF=25.72
TRENCH DRAIN
GRASS
CONCRETE
ASPHALT
RUBBER TRACK SURFACE
TP 25.10
TP 25.00
TP 25.65
TP 25.72
TC 21.80
TP 21.30
TC 21.45
TP 20.95
TC 21.40
TP 20.90
TC 21.75
TP 21.25
TC 21.35
TP 21.00
TC 21.13
TP 21.00
TC 20.00
TC 20.80
TP 20.30
TC 21.15
TP 20.85
TC 21.55
TP 21.05
TC 22.00
TP 21.50
MATCH EXIST. CURB
TP 25.72
TP 25.60
TP 25.15
TP 24.95
TP 24.10
TP 24.20
TP 25.55
TP 24.15
SAN. SWR. MH.
TP=24.58
FL 8" PVC (S) 21.63
FL 8" PVC (W) 20.83
FL 8" PVC (E) 20.70
STM. SWR. MH.
TP=23.05
FL 24" RCP (S) 15.69
FL 24" RCP (W) 17.57
FL 24" RCP (E) 17.54
STM. SWR. MH.
TP=22.57
FL 24" RCP (S) 15.72
FL 24" RCP (W) 15.45
FL 24" RCP (N) 16.81
SAN. SWR. MH.
TP=24.48
FL 8" PVC (S) 19.46
FL 8" PVC (E) 19.47
SAN. SWR. MH.
TP=24.09
FL 8" PVC (S) 19.64
FL 8" PVC (E) 19.63
FL 8" PVC (W) 19.79
SAN. SWR. MH.
TP=24.14
FL 8" PVC (S) 19.79
FL 8" PVC (E) 19.78
SAN. SWR. MH.
TP=24.11
FL 8" PVC (S) 19.79
FL 8" PVC (E) 19.80
SAN. SWR. MH.
TP=23.36
FL 15" PVC (N) 13.44
FL 15" PVC (W) 13.57
SAN. SWR. MH.
TP=23.19
8" PVC (W) 13.11
8" PVC (SE) 12.85
SAN. SWR. MH.
TP=23.65
18" PVC (NW) 13.08
L 18" PVC (S) 12.93
STM. SWR. MH.
TP=23.49
48" RCP (S) 14.92
36" RCP (W) 16.80
5'X4' CBC (N) 13.64
5'X4' CBC (E) 13.64
SAN. SWR. MH.
TP=24.43
FL 15" PVC (NE) 12.67
FL 8" PVC (W) 12.52
FL 8" PVC (SE) 12.50
SAN. SWR. MH.
TP=24.00
FL 15" PVC (S) 21.22
FL 18" RCP (SW) 16.81
(BOTTOM 16.551)
SAN. SWR. MH.
TP=24.04
FL 18" RCP (N) 15.24
FL 18" RCP (SE) 20.07
FL 12" RCP (S) 19.89
SAN. SWR. MH.
TP=24.03
FL 12" RCP (N) 24.00
FL 12" RCP (S) 21.61
SAN. SWR. MH.
TP=24.12
FL 12" RCP (N) 21.49
SAN. SWR. MH.
TP=24.11
FL 12" RCP (S) 21.73
FL 12" RCP (N) 21.66
STM. SWR. MH.
TP=23.54
FL 48" RCP (N) 15.44
FL 48" RCP (W) 15.61
SAN. SWR. MH.
TP=24.17
FL 12" RCP (S) 19.68
FL 12" RCP (N) 20.90
FL 12" RCP (E) 20.28
SAN. SWR. MH.
TP=24.14
FL 12" RCP (N) 21.85
FL 12" RCP (S) 21.83
SAN. SWR. MH.
TP=24.14
FL 12" RCP (S) 18.79
FL 12" RCP (N) 18.80
FL 12" RCP (E) 19.80
SAN. SWR. MH.
TP=24.17
FL 12" RCP (S) 19.67
FL 18" RCP (NW) 18.66
STM. SWR. MH.
TP=24.57
FL 18" HDPE(NW) 16.37
FL 15" RCP (SE) 20.60
FL 18" HDPE (S) 17.66
SAN. SWR. MH.
TP=24.43
FL 12" RCP (N) 15.09
FL 18" RCP (W) 16.07
SAN. SWR. MH.
TP=24.43
FL 12" RCP (S) 19.52
SAN. SWR. MH.
TP=24.00
FL 12" RCP (S) 21.22
FL 18" RCP (SW) 16.81
(BOTTOM 16.551)
SAN. SWR. MH.
TP=24.11
FL 12" RCP (S) 21.73
FL 12" RCP (N) 21.66
SAN. SWR. MH.
TP=24.12
FL 12" RCP (N) 21.49
SAN. SWR. MH.
TP=24.14
FL 12" RCP (S) 21.85
FL 12" RCP (N) 21.83
SAN. SWR. MH.
TP=24.17
FL 12" RCP (S) 19.68
FL 12" RCP (N) 20.90
FL 12" RCP (E) 20.28
SAN. SWR. MH.
TP=24.29
FL 12" RCP (S) 21.01
FL 12" RCP (SE) 20.97
SAN. SWR. MH.
TP=24.29
FL 12" RCP (SE) 19.67
FL 18" RCP (NW) 18.66
STM. SWR. MH.
TP=24.57
FL 18" HDPE(NW) 16.37
FL 15" RCP (SE) 20.60
FL 18" HDPE (S) 17.66
STM



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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

Galena Park ISD

STATE OF TEXAS
RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
12/05/2025

ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR

DRAWN BY: JW

PAVING PLAN

C 402

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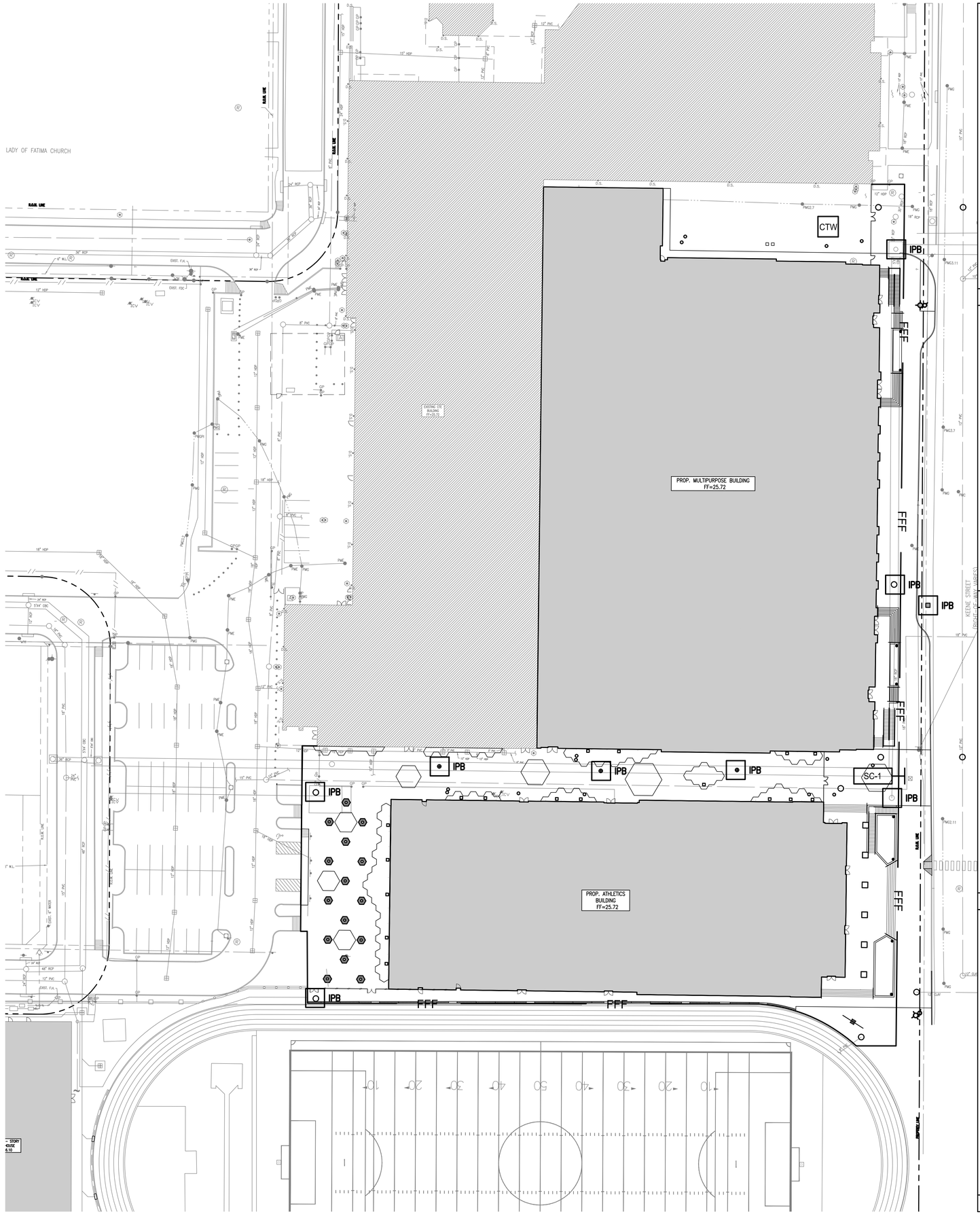
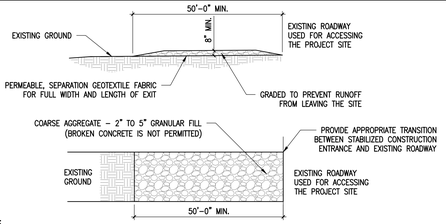
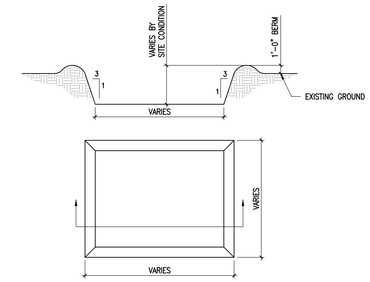






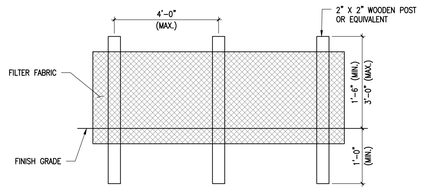
NOTES:
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN REQUIRED, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:
   CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

X STABILIZED CONSTRUCTION ENTRANCE



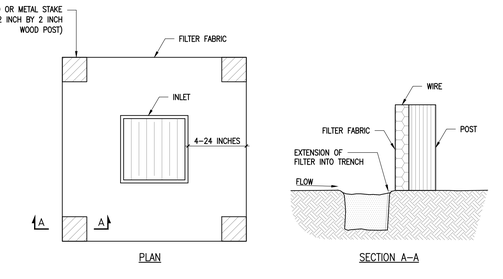
NOTES:
1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

X CONCRETE TRUCK WASHOUT AREA



NOTES:
1. SET POSTS AT 4-FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

X FILTER FABRIC FENCE (FFF)



CONSTRUCTION NOTES
1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
5. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
6. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.

X SILT FENCE INLET PROTECTION BARRIER (IPB)

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CLIENT
GALENA PARK ISD

DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR

DRAWN BY: JW

EROSION
CONTROL PLAN

C 501

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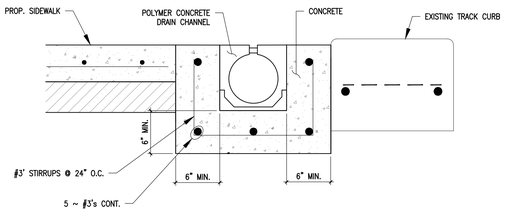
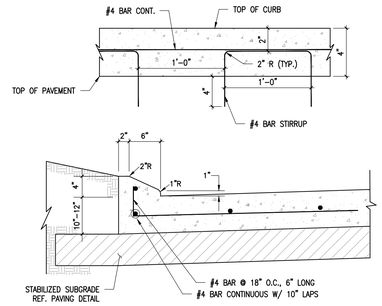


DETAILS NOTES:

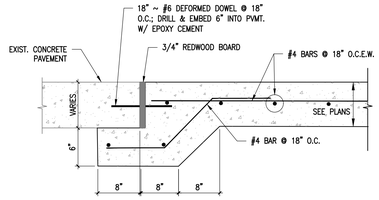
1. THE SURFACE DRAINAGE SYSTEM SHALL BE SYSTEM 3000 AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH., OR APPROVED EQUAL.
2. CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE.
3. THE SYSTEM SHALL BE 4.25 INCHES (108MM) NOMINAL INSIDE WIDTH WITH A 5.7 IN. (145MM) OVERALL WIDTH. THE CHANNEL SHALL BE 5.7 IN.(145MM) IN OVERALL DEPTH. THE MINIMUM SLOT DIMENSION SHALL BE 0.625 IN. (15MM). ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.
4. POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF: COMPRESSIVE STRENGTH RANGE BETWEEN 14,000–14,500 PSI; FLEXURAL STRENGTH BETWEEN 3600–4500 PSI; TENSILE STRENGTH OF 1500 PSI. THE MATERIAL WATER ABSORPTION RATE SHALL NOT EXCEED 0.1% BY WEIGHT AND SHALL BE RESISTANT TO PROLONGED SALT EXPOSURE, AND REPETITIVE FROST CYCLES.
5. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. REFER TO PLANS FOR TRENCH AND CATCH BASIN LOCATION.

15 | NOT USED

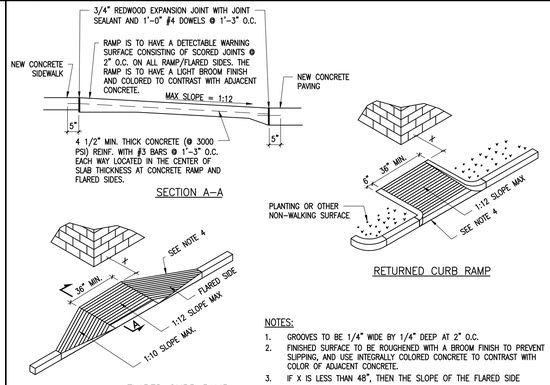


NOTES:
1. WHEN THE CURB IS NOT PLACED BY MACHINE, THE CURB SHALL BE PLACED BY HAND OF THE SAME DIMENSIONS SHOWN (UNLESS OTHERWISE APPROVED BY THE ENGINEER), BY FLOATING, STEEL TROWELING AND FINISHING BY HAND BRUSHING.

14 | NOT USED

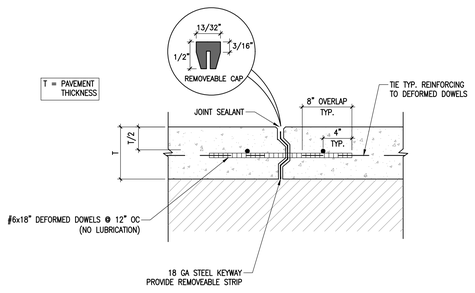


13 | NOT USED



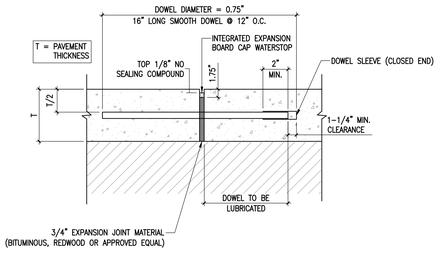
NOTES:
1. GROOVES TO BE 1/4" WIDE BY 1/4" DEEP AT 2" O.C.
2. FINISHED SURFACE TO BE ROUGHENED WITH A BROOM FINISH TO PREVENT SLIPPING, AND USE INTEGRALLY COLORED CONCRETE TO CONTRAST WITH COLOR OF ADJACENT CONCRETE.
3. IF X IS LESS THAN 48", THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12 X MIN. SHALL BE 42".
4. RAMP IS TO BE ISOLATED ON ALL SIDES WITH EXPANSION JOINTS.

12 | ACO 3000 SLOTTED DRAIN



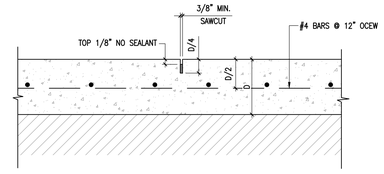
NOTE:
1. SMOOTH DOWELS AND REINFORCING BARS TO BE SECURELY ANCHORED AND SHALL BE SUPPORTED BY AN APPROVED DEVICE TO PREVENT MOVEMENT DURING PAVING OPERATIONS.
2. STAKES TO SUPPORT FORMS SHALL BE DRIVEN A MINIMUM OF 2" BELOW THE TOP OF PAVEMENT.

11 | MOUNTABLE CURB



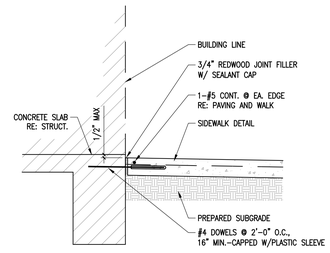
NOTE:
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

10 | EXIST. TO PROP. CONCRETE PAVEMENT



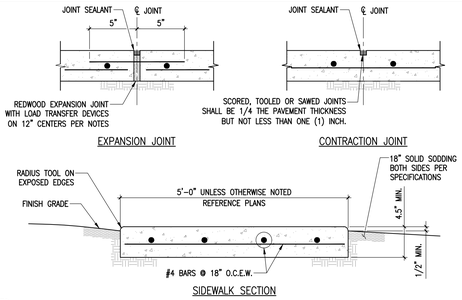
NOTE:
1. SAWCUTS 1/4" WIDE ARE TO BE SEALED WITH SILICONE JOINT SEALING COMPOUND UP TO 1/8" BELOW TOP OF PAVEMENT. SEE SPECIFICATIONS FOR REQUIRED JOINT SEALANT.
2. COMPLETE SAWCUT JOINTS WITHIN 12 HOURS OF CONCRETE PLACEMENT.

9 | ACCESSIBLE CURB RAMP



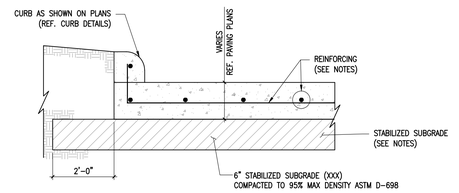
NOTE:
APPLICABLE AT DOOR CONDITIONS ONLY.

8 | LONGITUDINAL TIED JOINT (LT)



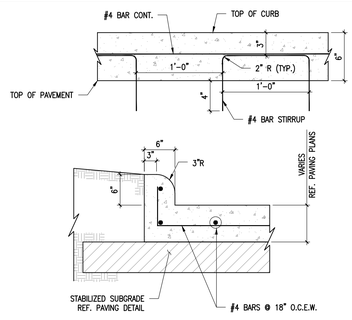
NOTES:
1. SLOPE TRANSVERSE SURFACE 2% (1:50) IN DIRECTION OF GENERAL SITE AREA DRAINAGE.
2. RUNNING SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5% (1:20).
3. FLOAT EDGES 1/4" MAXIMUM AT CONTROL JOINTS.
4. USE REDWOOD BOARD EXPANSION JOINT w/ #4 SMOOTH BAR w/ LOAD KEY (10" LONG).
5. REDWOOD BOARD EXPANSION JOINTS ON 15 FOOT CENTERS MAXIMUM.
6. CONTROL JOINT SPACING NOT TO EXCEED FIVE (5) FEET. SCORED, TOOLED OR SAWN JOINTS SHALL BE 1/4 THE PAVEMENT THICKNESS BUT NOT LESS THAN ONE (1) INCH.
7. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.

7 | EXPANSION JOINT (X)



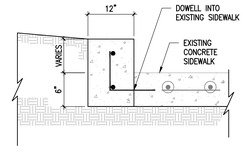
NOTES:
1. AREAS TO RECEIVE PAVING SHALL BE STRIPPED OF THE ORGANIC TOPSOIL TO A DEPTH OF AT LEAST 6–INCHES AND TO A DEPTH AS NECESSARY TO OBTAIN THE DESIRED FINISH GRADE. AFTER REMOVAL OF THE TOPSOIL THE EXPOSED SUBGRADE SHALL BE PROOFROLLED WITH A 15–TON ROLLER TO DETECT ANY WET, SOFT, OR UNSTABLE SOILS. WET, SOFT OR UNSTABLE SOILS SHALL BE TREATED WITH SUITABLE DRYING OR STABILIZING AGENTS OR REMOVED AND REPLACE WITH PROPERLY COMPACTED FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
2. IF IT IS NECESSARY TO PLACE FILL IN ORDER TO BRING THE PAVEMENT SUBGRADE TO THE REQUIRED ELEVATION, SUITABLE EARTH FILL OR SELECT FILL SHALL BE UTILIZED. SUITABLE EARTH FILL AND SELECT FILL SHALL BE FREE OF ORGANICS, DELETERIOUS SUBSTANCES AND BE A CLAYEY SAND OR INACTIVE LEAN CLAY WITH A MAXIMUM LIQUID LIMIT OF 35 AND PLASTICITY INDEX RANGE OF 8 TO 20. FILL MATERIAL SHALL BE PLACED IN 8–INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN–PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/–2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. REFERENCE PAVING PLANS FOR SUBGRADE STABILIZATION REQUIREMENTS.
4. CONCRETE PAVEMENT SHALL CONSIST OF NOT LESS THAN 5.5 SACKS OF CONCRETE PER CUBIC YARD AND OBTAIN A 28–DAY COMPRESSIVE STRENGTH OF AT LEAST 3,500 PSI. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. REINFORCING SHALL CONSIST OF THE THE FOLLOWING
   - 5–INCH THICK PAVING – #4 BARS AT 18" O.C.E.W.
   - 6–INCH THICK PAVING – #4 BARS AT 12" O.C.E.W. OR #5 BARS AT 18" O.C.E.W.
   - 7–INCH AND 8–INCH THICK PAVING – #5 BARS AT 18" O.C.E.W.

6 | SAWCUT JOINT (S)



NOTES:
1. FOR NEW PAVEMENT STIRRUPS SHALL BE SET IN FRESH CONCRETE AND SECURED.
2. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
3. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
4. PLACE 3/4" INCH PREFORMED EXPANSION JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF EXPANSION JOINTS IN PAVEMENT, AT END OF RADIUS RETURNS AT STREET INTERSECTIONS AND DRIVEWAYS, AND AT CURB INLETS. MAXIMUM SPACING SHALL BE 60' CENTERS.
5. PLACE 1/4" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

5 | CONCRETE SIDEWALK AT BUILDING



NOTES:
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4. PLACE 1/4" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

4 | CONCRETE SIDEWALK

3 | CONCRETE PAVEMENT

2 | CONCRETE CURB

1 | CONCRETE CURB AT EXISTING SIDEWALK

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

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Galena Park, TX 77547

Galena Park ISD

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PROFESSIONAL ENGINEER
12/05/2025
ENGINEERS F-18326

CLIENT: GALENA PARK ISD
DATE: DECEMBER 05, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR
DRAWN BY: JW

DETAILS

C 601

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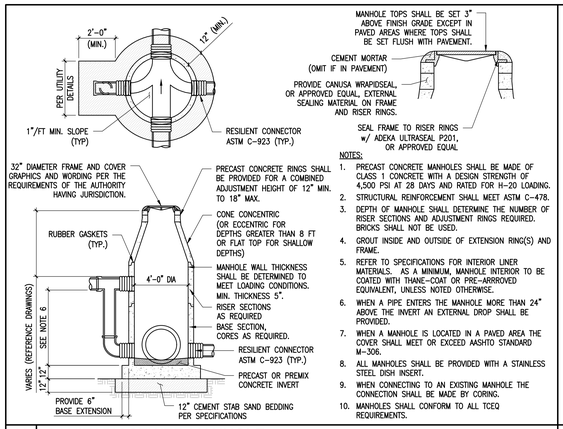
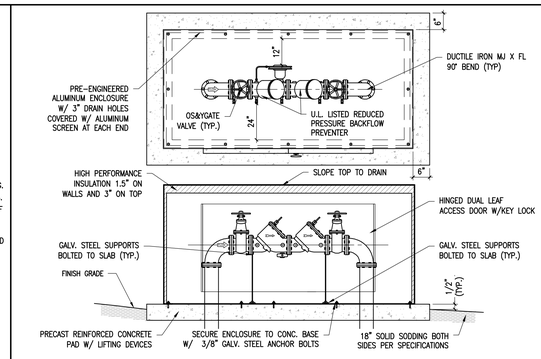
16 SANITARY SEWER MANHOLE



NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND FRAME.
5. REFER TO SPECIFICATIONS FOR INTERIOR LINER MATERIALS. AS A MINIMUM, MANHOLE INTERIOR TO BE COATED WITH THANE-COAT OR PRE-APPROVED EQUIVALENT, UNLESS NOTED OTHERWISE.
6. WHEN A PIPE ENTERS THE MANHOLE MORE THAN 24" ABOVE THE INVERT AN EXTERNAL DROP SHALL BE PROVIDED.
7. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.
8. ALL MANHOLES SHALL BE PROVIDED WITH A STAINLESS STEEL DISH INSERT.
9. WHEN CONNECTING TO AN EXISTING MANHOLE THE CONNECTION SHALL BE MADE BY CORING.
10. MANHOLES SHALL CONFORM TO ALL TCEQ REQUIREMENTS.

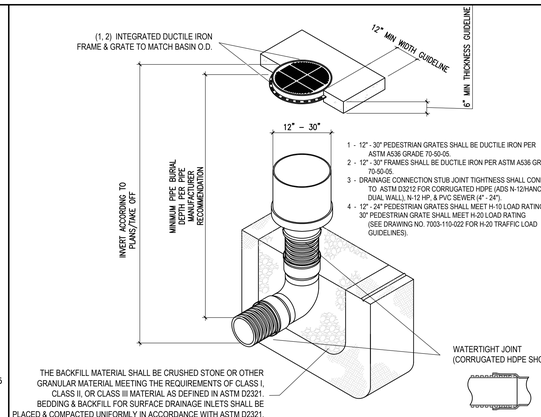
15 ABOVE GROUND RPZ W/ ENCLOSE



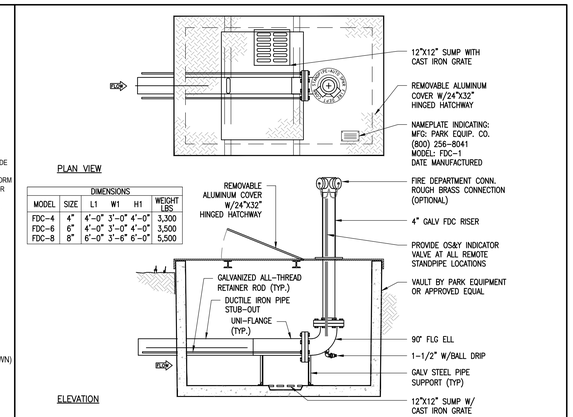
NOTES:

1. CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS. REINFORCEMENT SHALL BE GRADE 60 STEEL CONFORMING TO ASTM A615 ON REQUIRED CENTERS.
2. ALL ABOVE GROUND PIPING SHALL BE DUCTILE IRON.
3. BACKFLOW PREVENTER SHALL BE WATTS LF909 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

14 INLET STRUCTURE IN CONCRETE



13 FDC DRY STANDPIPE

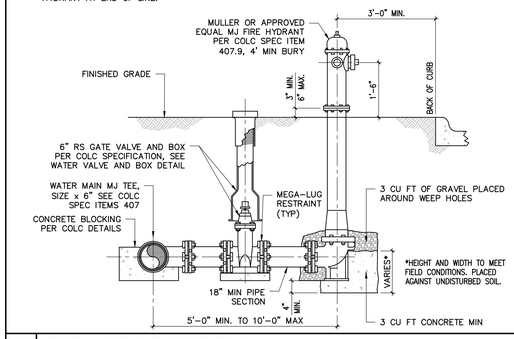


DIMENSIONS					
MODEL	SIZE	L1	W1	H1	WEIGHT LBS.
FDC–4	4"	4'–0"	3'–0"	4'–0"	3,300
FDC–6	6"	4'–0"	3'–0"	4'–0"	3,500
FDC–8	8"	6'–0"	3'–6"	6'–0"	5,500

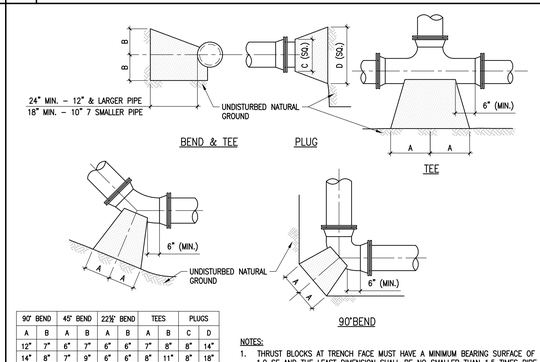
12 FIRE HYDRANT ASSEMBLY

NOTES:

1. MULLER OR APPROVED EQUAL MJ FIRE HYDRANT PER COLC SPEC ITEM 407.9, 4' MIN BURY
2. 4 1/2" NST PUMPER NOZZLE SHALL FACE ROADWAY.
3. VALVE BONNET TO BE ASSEMBLED WITH STAINLESS STEEL BOLTS.
4. IN LOCATIONS OF CUL-DE-SAC'S OMIT TEE AND INSTALL VALVE AND HYDRANT AT END OF LINE.



11 THRUST BLOCKING

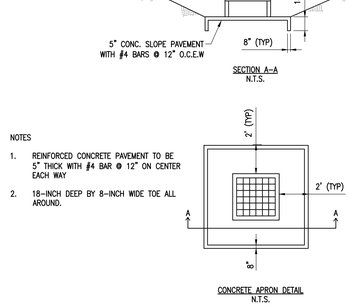


90° BEND		45° BEND		22½° BEND		TEES			PLUGS	
A	B	A	B	A	B	A	B	C	D	
12"	7"	6"	7"	6"	6"	7"	8"	8"	8"	14"
14"	8"	7"	9"	6"	6"	8"	11"	8"	8"	18"
16"	10"	9"	10"	6"	8"	10"	12"	10"	10"	21"
22"	13"	12"	13"	8"	10"	13"	16"	12"	12"	29"
29"	21"	16"	21"	11"	16"	18"	24"	16"	16"	41"
38"	27"	21"	27"	12"	24"	24"	30"	20"	20"	54"

NOTES:

1. THRUST BLOCKS AT TRENCH FACE MUST HAVE A MINIMUM BEARING SURFACE OF 1.0 SF AND THE LEAST DIMENSION SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER, BUT NOT LESS THAN 1.0 FT.
2. THRUST BLOCKS SHALL BE PACKED AT ALL FITTINGS.
3. ALL FITTINGS SHALL BE M.J. RESTRAINED JOINT (EBAA IRON, SERIES 2000PV, OR APPROVED EQUAL).

10 CONCRETE APRON AROUND INLET



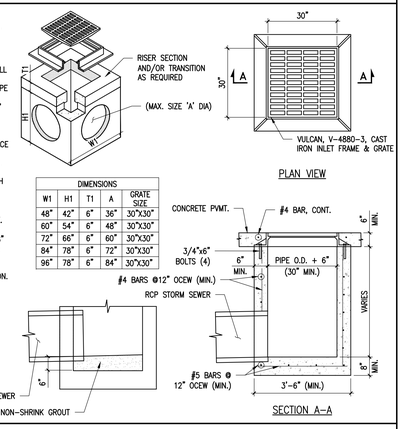
NOTES

1. REINFORCED CONCRETE PAVEMENT TO BE 5" THICK WITH #4 BAR @ 12" ON CENTER EACH WAY
2. 18–INCH DEEP BY 8–INCH WIDE TOE ALL AROUND.

9 AREA INLET

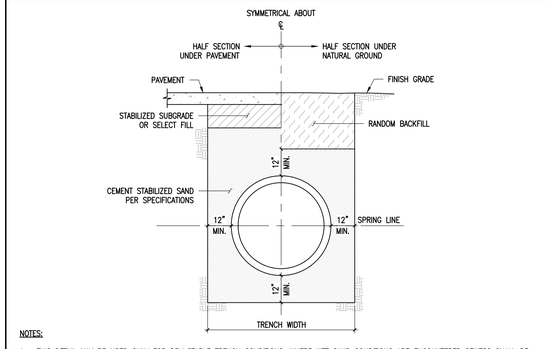
NOTES:

1. WALLS SHALL BE CONSTRUCTED OF 6" REINFORCED, CLASS "A" (4000 psi) CONCRETE.
2. PRECAST CONCRETE INLET BASINS SHALL BE PROVIDED WITH PRE-FORMED KNOCKOUTS ONLY IN WALLS WHERE PIPE CONNECTIONS ARE TO BE MADE. KNOCKOUTS SHALL BE PIPE O.D. + 4" MAX. AND CIRCULAR SHAPED.
3. IN GRASS AREAS, FOLLOWING FINAL GRADING, THE CONTRACTOR SHALL PLACE SOLID SOD A MINIMUM OF 5 FEET AROUND PERIMETER OF TOP OF INLET.
4. IF THE BASE SECTION IS PRECAST WITH A BOTTOM, A 12" THICK CEMENT STABILIZED SAND BASE SHALL BE REQUIRED BENEATH THE STRUCTURE, EXTENDING 12" PAST THE OUTER FACE.
5. WHEN HDPE PIPE IS USED, PROVIDE 6" CLEARANCE BETWEEN INLET BOTTOM & FLOWLINE OF PIPE. GROUT ENTIRE BOTTOM OF INLET. EXTEND PIPE INTO INLET AT LEAST ONE FULL CORRUGATION. NO JOINT WITHIN 6 FEET OF INLET.
6. INSTALL FILTER FABRIC OVER INLET GRATE TO PREVENT SILTS FROM ENTERING INLET.
7. IF BOTTOM SECTION INSIDE DIM. IS LARGER THAN 30"x30", PROVIDE TRANSITION SECTION TO ACCEPT A 30"x30" FRAME & GRATE.



DIMENSIONS				
W1	H1	T1	A	GRATE SIZE
48"	42"	6"	36"	30"X30"
60"	54"	6"	48"	30"X30"
72"	66"	6"	60"	30"X30"
84"	78"	6"	72"	30"X30"
96"	78"	6"	84"	30"X30"

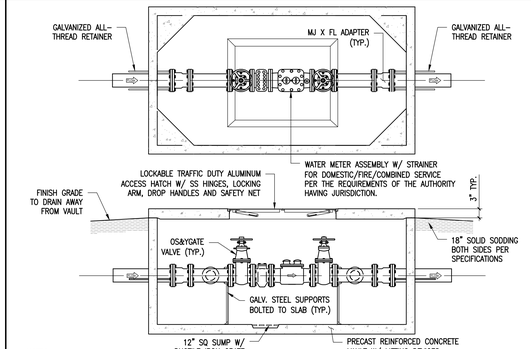
8 CATCH BASIN



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8–INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN–PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/–2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24–INCHES FOR PIPES WITH A NOMINAL SIZE OF 30–INCHES OR LESS AND O.D. PLUS 36–INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30–INCHES.

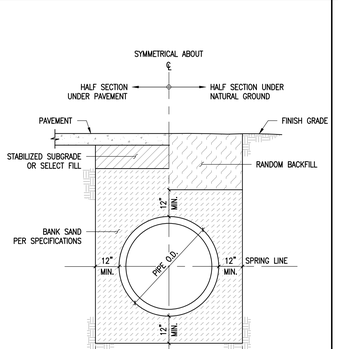
7 STORM SEWER BEDDING AND BACKFILL



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8–INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN–PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/–2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24–INCHES FOR PIPES WITH A NOMINAL SIZE OF 30–INCHES OR LESS AND O.D. PLUS 36–INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30–INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24–INCHES FOR PIPES WITH A NOMINAL SIZE OF 24–INCHES OR LESS AND O.D. PLUS 36–INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24–INCHES.

6 STORM SEWER STRUCTURE BEDDING AND BACKFILL



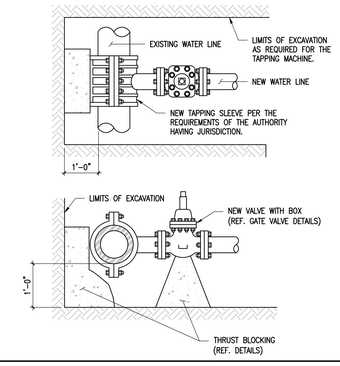
NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8–INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN–PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/–2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24–INCHES FOR PIPES WITH A NOMINAL SIZE OF 30–INCHES OR LESS AND O.D. PLUS 36–INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30–INCHES.

5 WATER TAPPING SLEEVE AND VALVE

NOTES:

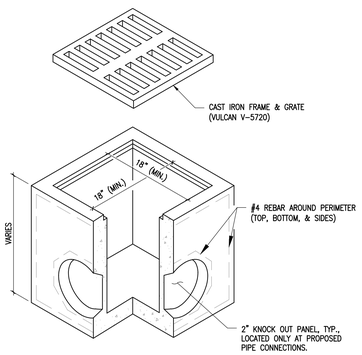
1. TAPPING VALVES ARE NOT ALLOWED WHEN TAP IS SAME SIZE AS THE EXISTING MAIN EXCEPT WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.



4 SANITARY SEWER BEDDING AND BACKFILL

NOTES:

1. WALLS & BOTTOM SHALL BE CONSTRUCTED OF 6" REINFORCED, CLASS "A" (4000 psi) CONCRETE.
2. PRECAST CONCRETE INLET BASINS SHALL BE PROVIDED WITH PRE–FORMED KNOCKOUTS ONLY IN WALLS WHERE PIPE CONNECTIONS ARE TO BE MADE. KNOCKOUTS SHALL BE PIPE O.D. + 4" MAX. AND CIRCULAR SHAPED.
3. IN GRASS AREAS, FOLLOWING FINAL GRADING, THE CONTRACTOR SHALL PLACE SOLID SOD A MINIMUM OF 5 FEET AROUND PERIMETER OF TOP OF INLET.
4. IF THE BASE SECTION IS PRECAST WITH A BOTTOM, A 12" THICK CEMENT STABILIZED SAND BASE SHALL BE REQUIRED BENEATH THE STRUCTURE, EXTENDING 12" PAST THE OUTER FACE.
5. WHEN HDPE PIPE IS USED, PROVIDE 6" CLEARANCE BETWEEN INLET BOTTOM & FLOWLINE OF PIPE. GROUT ENTIRE BOTTOM OF INLET. EXTEND PIPE INTO INLET AT LEAST ONE FULL CORRUGATION. NO JOINT WITHIN 6 FEET OF INLET.
6. INSTALL FILTER FABRIC OVER INLET GRATE TO PREVENT SILTS FROM ENTERING INLET.



3 WATER METER

NOTES:

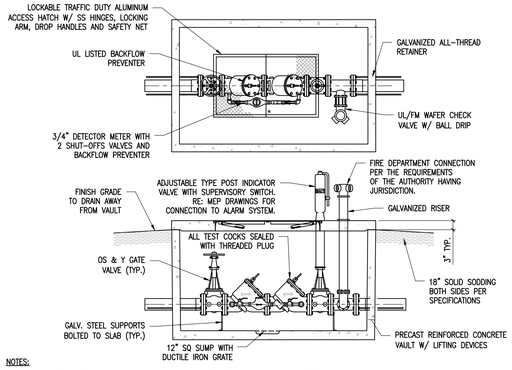
1. CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS. REINFORCEMENT SHALL BE GRADE 60 STEEL CONFORMING TO ASTM A615 ON REQUIRED CENTERS.
2. HATCHWAY SHALL BE TRAFFIC RATED ALUMINUM OR STEEL SKID RESISTANT PLATE W/ FRAME. HATCH TO BE FURNISHED WITH 316 SS SNAP LOCK AND BRASS HINGES.
3. ALL PIPING IN THE VAULT SHALL BE DUCTILE IRON.

2 WATER LINE BEDDING & BACKFILL

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED STRUCTURES SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8–INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN–PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/–2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

1 DDBP IN VAULT WITH FDC AND PIV



NOTES:

1. CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS. REINFORCEMENT SHALL BE GRADE 60 STEEL CONFORMING TO ASTM A615 ON REQUIRED CENTERS.
2. HATCHWAY SHALL BE TRAFFIC RATED ALUMINUM OR STEEL SKID RESISTANT PLATE WITH FRAME. HATCH TO BE FURNISHED WITH 316 SS SNAP LOCK AND BRASS HINGES.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
DIG ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: RKR

DRAWN BY: JW

DETAILS

C 602

B:\240240539 - GPHS MP\FOC\DIG\Building Addition Phase 3B\Dwgs\C 602 DETAILS.dwg Last Saved: JWHATLEY
Wednesday, December 3, 2025 3:49:57 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL NOTES:

1. VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL DRAWINGS.
2. CONTRACTOR SHALL CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS.
3. EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES PRIOR TO BEGINNING EXCAVATION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING IRRIGATION AND LANDSCAPE ON SITE FROM ANY DAMAGE. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS
5. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS. FOR ADDITIONAL INFORMATION REFER TO ARCHITECT'S & CIVIL ENGINEERING DRAWINGS.
6. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES AND THE GENERAL CONTRACTOR FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. POT HOLE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO EXCAVATION.

DEMOLITION NOTES:

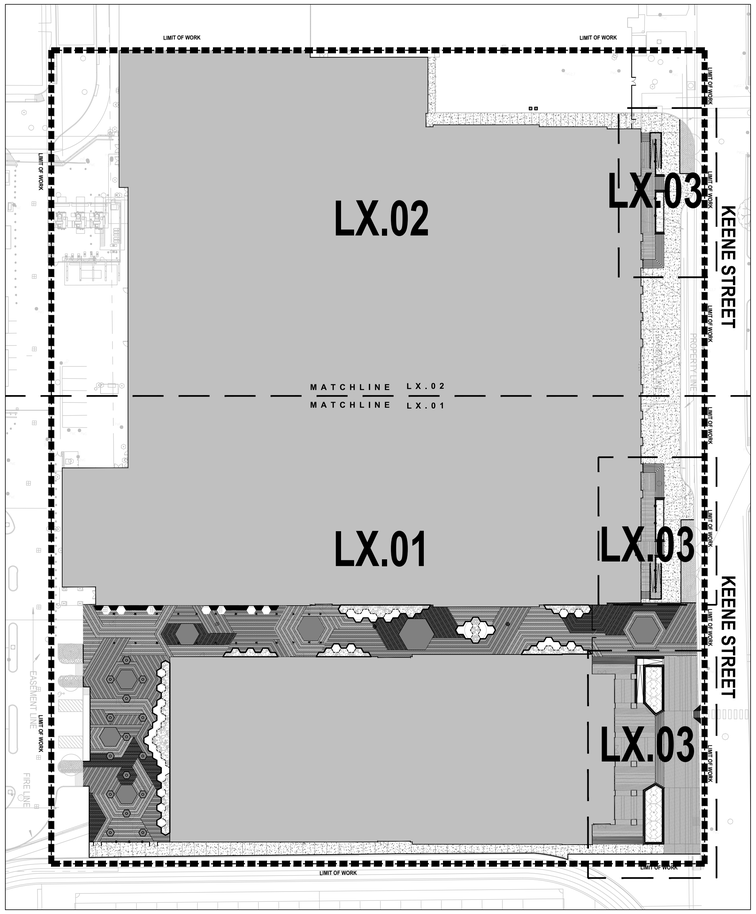
1. CONTRACTOR SHALL DEMOLISH ALL ITEMS NECESSARY TO INSTALL NEW WORK PER PLANS AND SPECIFICATIONS. DEMOLITION WORK SHALL INCLUDE BUT NOT BE LIMITED TO ITEMS INDICATED BY REFERENCED NOTES AND SYMBOLS ON THE DEMOLITION PLANS.
2. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS AND ITEMS TO BE REMOVED. PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
3. REFER TO SPECIFICATIONS SECTION 024119 FOR GENERAL DEMOLITION REQUIREMENTS.
4. INSTALL TEMPORARY BARRIERS TO SEPARATE CONSTRUCTION FROM OCCUPIED AREAS OR AREAS ACCESSIBLE TO PUBLIC OR OWNER EMPLOYEES. BARRIER SHALL BE DUST-TIGHT. COORDINATE DEMOLITION SCHEDULE WITH OWNER. MINIMIZE DISRUPTIONS FROM SOUND OR CONSTRUCTION EQUIPMENT AND PERSONNEL TO OCCUPIED AREAS.
5. FOR ALL EXISTING PLUMBING - IRRIGATION AND DRAINAGE ITEMS REMOVED, DEMOLISH LINES BACK TO GRADE OR WALLS TO REMAIN, ABOVE OR BELOW FLOOR. CAP ALL LINES.
6. **CONTRACTOR SHALL PROVIDE UNIT PRICES BASED ON QUANTITIES/CALCULATIONS SHOWN ON DOCUMENTS. FIELD CONDITIONS MAY REVISE ACTUAL LOCATION, INCREASING OR DECREASING THE EXTENT OF WORK BID. CHANGES TO THE EXTENT OF WORK RESULTING IN AN INCREASE WILL BE BASED ON UNIT PRICES AND PERFORMED SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT AND THE OWNER IN THE FORM OF A CHANGE ORDER**

SITE/LANDSCAPE SLEEVING NOTES:

1. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL OTHER CONSULTANTS AND SUB-CONTRACTOR SLEEVING REQUIREMENTS AND PLACE SUCH SLEEVES PRIOR TO HARDSCAPE/FLATWORK INSTALLATION.

LAYOUT/DIMENSIONAL CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR DIRECTION AND RESOLUTION OF DISCREPANCIES PRIOR TO PROCEEDING.
3. FOR DIMENSIONS OF BUILDING, PARKING STRUCTURE AND OTHER RELATED NON-LANDSCAPE WORK, REFER TO THE ARCHITECTURAL OR CIVIL DRAWINGS.
4. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
5. ALL DIMENSIONS ARE TAKEN PERPENDICULAR TO WALL, CURB, P.O.B., OR CENTERLINE UNLESS OTHERWISE NOTED. DIMENSIONS AT CURB ARE FROM BACK OF CURB.
6. COORDINATE POINTS HAVE BEEN COORDINATED WITH CIVIL ENGINEER.
7. EDGES OF IRREGULAR PAVING ARE LOCATED BY COORDINATES AND ARE GENERAL LOCATIONS. CONTRACTOR SHALL STAKE POINTS IN FIELD. STAKED EDGES SHALL BE REVIEWED BY LANDSCAPE ARCHITECT FOR FINAL LAYOUT APPROVAL AND SETTING AND MAY REQUIRE ADJUSTMENTS IN FIELD FOR FINAL PLACEMENT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
8. CENTERLINES OF PAVING ARE LOCATED BY COORDINATES AND ARE GENERAL LOCATIONS. CONTRACTOR SHALL STAKE POINTS AND ESTABLISH ONE SIDE OF TRAIL WITH TEMPORARILY STAKED STEEL EDGING AT NOTED OFFSET. TEMPORARY STEEL EDGE STAKING SHALL BE REVIEWED BY LANDSCAPE ARCHITECT FOR FINAL LAYOUT APPROVAL AND SETTING AND MAY REQUIRE ADJUSTMENTS IN FIELD FOR FINAL PLACEMENT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
9. THIS DRAWING INCLUDES THE LOCATION OF VARIOUS DRAIN DEVICES AND SYSTEMS. COORDINATE CONSTRUCTION, DETAILS AND UTILITY CONNECTIONS WITH RELATED ARCHITECTURAL AND ENGINEERING DRAWINGS. CONFIRM LOCATIONS WITH THE LANDSCAPE ARCHITECT PRIOR TO ROUGH IN.
10. FOR HANDICAPPED STANDARDS, VERIFY COMPLIANCE WITH LATEST EDITION OF ADA AND LOCAL AND STATE HANDICAP STANDARDS PRIOR TO CONSTRUCTION. WHERE FIELD MODIFICATIONS ARE REQUIRED FOR COMPLIANCE, CONSTRUCTION CHANGES MAY BE APPLIED INCLUDING DIFFERENT GRADES AND LAYOUT THAN THOSE NOTED HEREIN.
11. SURFACES SHALL BE ADA COMPLIANT ALONG ACCESS AND EGRESS. FLAGSTONE SHALL HAVE NO ADJACENT SURFACE IRREGULARITIES GREATER THAN 1/4" IN ANY PIECE OR BETWEEN ADJACENT PIECES
12. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTER LINES OR OTHER NOTED REFERENCES.
13. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.



KEY MAP

CL	CENTER LINE
ALIGN	ALIGN
	EXPANSION JOINT
CJ	CONTROL OR CONSTRUCTION JOINTS
R5'-0"	RADIUS
X LXXX	PLAN ENLARGEMENT REFERENCE
X LXXX	ELEVATION REFERENCE
X LXXX	SECTION REFERENCE
X LXXX	DETAIL REFERENCE
XX	SCHEDULE REFERENCE

ABBREVIATIONS

APPROX	APPROXIMATE
ADJ	ADJACENT
BC	BOTTOM OF CURB
BLDG	BUILDING
BR	BOTTOM OF RAMP
BS	BOTTOM OF STEP
BL	BUILDING LINE
BOC	BACK OF CURB
BW	BOTTOM OF WALL
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
COH	CITY OF HOUSTON
CONC	CONCRETE
CONT	CONTINUOUS
CL	CENTERLINE
CLR	CLEAR / CLEARANCE
CRS	COURSE
DIA	DIAMETER
DWG	DRAWINGS
GALV	GALVANIZED
EJ	EXPANSION JOINT
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL
ESMT	EASEMENT
EXIST	EXISTING
FF	FINISHED FLOOR
FL	FLOWLINE
FTG	FOOTING
FG	FINISHED GRADE
FOC	FACE OF CURB
FIN	FINISH
G	GUTTER
HT	HEIGHT
HP	HIGH POINT
INT	INTERIOR
LA	LANDSCAPE ARCHITECT
LF	LINEAR FEET
LP	LOW POINT
LOW	LIMIT OF WORK
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
OC	ON CENTER
OPP	OPPOSITE
PA	PLANTING AREA
PERP	PERPENDICULAR
PL	PROPERTY LINE
POB	POINT OF BEGINNING
PROP	PROPOSED
PVMT	PAVEMENT
PT	POINT
R	RADIUS
RE	REFER TO
REF	REFERENCE
REINF	REINFORCED
REQ	REQUIRED
ROW	RIGHT OF WAY
SCH	SCHEDULE
SSEJ	SUB-SURFACE EXPANSION JOINT
SEC	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SQ	SQUARE
SQFT	SQUARE FEET
STL	STEEL
SS	STAINLESS STEEL
SWE	STATIC WATER ELEVATION
TAN	TANGENT
TC	TOP OF CURB
TF	TOP OF FRAME
THK	THICK / THICKNESS
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TP	TOP OF PAVEMENT
TR	TOP OF RAMP
TS	TOP OF STEP
TW	TOP OF WALL
TY	TYPE
TYP	TYPICAL
UTL	UTILITY
WL	WATER LEVEL

Sheet List Table	
Sheet Number	Sheet Title
L0.00	L0.00 KEY MAP AND INDEX
L1.00	DRAINAGE NOTES AND SCHEDULE
L1.01	GRADING AND DRAINAGE PLAN
L1.02	GRADING AND DRAINAGE PLAN
L1.03	GRADING AND DRAINAGE PLAN ENLARGEMENTS
L1.04	GRADING AND DRAINAGE DETAILS
L2.00	MATERIALS NOTES AND SCHEDULE
L2.01	MATERIALS PLAN
L2.02	MATERIALS PLAN
L2.03	MATERIALS PLAN ENLARGEMENTS
L3.01	HARDSCAPE DETAILS
L3.02	WALLS AND STAIRS
L3.03	WALLS AND STAIRS
L4.00	PLANTING NOTES AND SCHEDULE
L4.01	PLANTING PLAN
L4.02	PLANTING PLAN
L4.03	PLANTING PLAN ENLARGEMENTS
L4.04	PLANTING DETAILS

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
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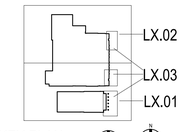
ISSUE FOR PROPOSAL





KEY PLAN
NORTH: PLAN TRUE



12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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L0.00 KEY MAP AND INDEX

L0.00

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Plot Stamp:
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0"

1"

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

DRAINAGE SCHEDULE (D)							
SYMBOL	NAME	DESCRIPTION	SUPPLIER	SIZE	COLOR	REMARK	DETAIL
	PLANTING DRAIN	ATRIUM DRAIN LOCATED WITHIN PLANTING	A.D.S.	9" X 9"	BLACK	REF. DETAIL	04
	LAWN DRAIN	FLUSH DRAIN LOCATED WITHIN LAWN	NDS	12" SQ.	BLACK	REF. DETAIL	03
	PAVING DRAIN	FLUSH DRAIN LOCATED WITHIN PAVING	NDS	12" SQ.	BLACK	REF. DETAIL	01
	AREA DRAIN	FLUSH DRAIN LOCATED WITHIN GRAVEL	NDS	12" SQ.	BLACK	REF. DETAIL	05
	DRAIN INLET AT BOX CULVERT	WUNDER COVER DRAIN INLET	WUNDERCOVER	30" SQ.	GALVANIZED	INCLUDE RISER AS NEEDED	
		DIRECTION OF SLOPE ON PAVEMENT					
		DIRECTION OF SLOPE IN PLANTING					

GENERAL DRAINAGE NOTE(S):

1. 6-8"(IN) PVC STORM LINES CONNECTING LANDSCAPE DRAINAGE. CONTRACTOR TO PROVIDE 12"(IN) RCP CONNECTION INTO CIVIL'S STORM JUNCTION BOX COLLECTING THESE LANDSCAPE DRAIN LINES. USE WYE CONNECTIONS WHERE NECESSARY TO MINIMIZE REDUNDANT PIPING.
2. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE OF .5% MIN. SLOPE TO JUNCTION BOX FROM LANDSCAPE DRAINS
3. DRAINS TO CONNECT TO CIVIL STORM WATER SYSTEM UNLESS NOTED TO BE CONNECTED TO MEP SYSTEM
4. CONTRACTOR TO CONFIRM POSITIVE DRAINAGE AT ALL LOCATIONS
5. CONTOUR LINES PROVIDED FOR CONCEPTUAL PURPOSES.
6. CONFIRM ALL DOWNSPOUT CONNECTIONS AND PIPING WITH CIVIL AND ARCHITECTURE DRAWINGS

DEMOLITION NOTES:

1. CONTRACTOR SHALL DEMOLISH ALL ITEMS NECESSARY TO INSTALL NEW WORK PER PLANS AND SPECIFICATIONS. DEMOLITION WORK SHALL INCLUDE BUT NOT BE LIMITED TO ITEMS INDICATED BY REFERENCED NOTES AND SYMBOLS ON THE DEMOLITION PLANS.
2. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS AND ITEMS TO BE REMOVED. PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
3. REFER TO SPECIFICATIONS SECTION 024119 FOR GENERAL DEMOLITION REQUIREMENTS.
4. INSTALL TEMPORARY BARRIERS TO SEPARATE CONSTRUCTION FROM OCCUPIED AREAS OR AREAS ACCESSIBLE TO PUBLIC OR OWNER EMPLOYEES. BARRIER SHALL BE DUST-TIGHT. COORDINATE DEMOLITION SCHEDULE WITH OWNER. MINIMIZE DISRUPTIONS FROM SOUND OR CONSTRUCTION EQUIPMENT AND PERSONNEL TO OCCUPIED AREAS.
5. FOR ALL EXISTING PLUMBING - IRRIGATION AND DRAINAGE ITEMS REMOVED, DEMOLISH LINES BACK TO GRADE OR WALLS TO REMAIN, ABOVE OR BELOW FLOOR. CAP ALL LINES.
6. **CONTRACTOR SHALL PROVIDE UNIT PRICES BASED ON QUANTITIES/CALCULATIONS SHOWN ON DOCUMENTS. FIELD CONDITIONS MAY REVISE ACTUAL LOCATION, INCREASING OR DECREASING THE EXTENT OF WORK BID. CHANGES TO THE EXTENT OF WORK RESULTING IN AN INCREASE WILL BE BASED ON UNIT PRICES AND PERFORMED SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT AND THE OWNER IN THE FORM OF A CHANGE ORDER**

GRADING AND EXCAVATION NOTES:

1. ALL EARTHWORK SHALL HAVE MAXIMUM 3:1 SLOPES UNLESS OTHERWISE NOTED.
2. ANY EXISTING AND/OR ON-SITE CONDITIONS WHICH VARY FROM THOSE SHOWN ON DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
3. ALL GRADING SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 0.5% GRADIENT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS.
4. REFER TO THE GENERAL CONDITIONS AND THE TECHNICAL SPECIFICATIONS SECTIONS FOR THE PLACEMENT, COMPACTION, GRADING AND TESTING OF ALL FILL MATERIAL.
5. REFER TO CIVIL DOCUMENTS FOR ALL SITE EROSION CONTROL.
6. ROUGH OR MASS GRADING SHALL BE AS SHOWN ON THE CIVIL ENGINEERS DRAWINGS, REFERENCE THESE DRAWINGS FOR FINISH GRADING.
7. THE DEBRIS CREATED BY GRADING AND EXCAVATION OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AWAY FROM THE JOB SITE.
8. CONTRACTORS SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO THE EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL FINISH GRADING UNDER THE EXISTING TREES SHALL BE COMPLETED BY USING HAND TOOLS. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED TO WORK OR DRIVE UNDER THE DRIP LINE OF THE EXISTING TREES, EXCEPT FOR THOSE AREAS WHERE PAVING IS TO BE PLACED.
9. HAND EXCAVATE AND HAND COMPACT AREAS UNDER DRIP LINES OF EXISTING TREES.
10. ALL EXCAVATION WITHIN THE DRIP LINES OF EXISTING TREES SHALL BE RADIAL TO THE TRUNK.
11. FOR EXISTING UNDERGROUND UTILITIES REFER TO CIVIL ENGINEER'S PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION OF THE NEW AMENITIES. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
12. REFER TO CIVIL AND PLUMBING ENGINEER'S DRAWINGS FOR CONNECTIONS TO DRAINS AND CONTINUATION TO DISCHARGE PIPING.
13. EXISTING UTILITY STRUCTURES AND LIDS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE (UNLESS OTHERWISE NOTED).
14. ALL PLANTER DRAIN RIM INVERT ELEVATIONS SHALL BE 3" MIN. BELOW TOP OF ADJACENT PAVEMENT ELEVATIONS. ALL FLOW LINE ELEVATIONS SHALL BE SET @ MIN. 12" BELOW DRAIN ELEV. @ HIGH END. REF. DRAWINGS FOR INVERTS.
15. ALL LAWN DRAIN RIM INVERT ELEVATIONS SHALL BE 2" MIN. BELOW TOP OF ADJACENT PAVEMENT ELEVATION. ALL FLOW LINE ELEVATIONS SHALL BE SET @ MIN. 12" BELOW DRAIN ELEV. @ HIGH END. REF. DRAWINGS FRO INVERTS.
16. AFTER PLACEMENT AND ADJUSTMENT OF DRAIN BODIES TO PROPOSED FINISH GRADES, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO COORDINATE AND APPROVE FINAL GRADES IN ALL AREAS.
17. GRADING ON TRAILS TO BE CONSISTENT AND TO TRANSITION WITH EXISTING GRADES. TRAIL SECTION SHALL BE CROWNED IN FLAT AREAS AND SLOPED AT 2% TO THE DOWNHILL SIDE.
18. THE CONTRACTOR SHALL REQUEST A REVIEW FOR INSPECTION OF FINAL IN PLACE GRADING A MINIMUM OF 48 HOURS IN ADVANCE OF PERFORMING ANY WORK UNLESS OTHERWISE NOTED ON THIS SHEET. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD AND PRIOR TO SURFACE CONSTRUCTION AND PLANTING.
19. ALL SLOPES SHALL BE SMOOTH AND UNIFORM. LEVEL AND GENTLY CROWN TOP OF SLOPES. BLEND TOE OF SLOPES INTO EXISTING GRADES

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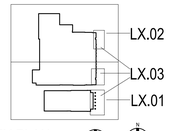

KEY PLAN

NORTH: PLAN TRUE



12/05/2025

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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

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DRAINAGE NOTES AND SCHEDULE

L1.00

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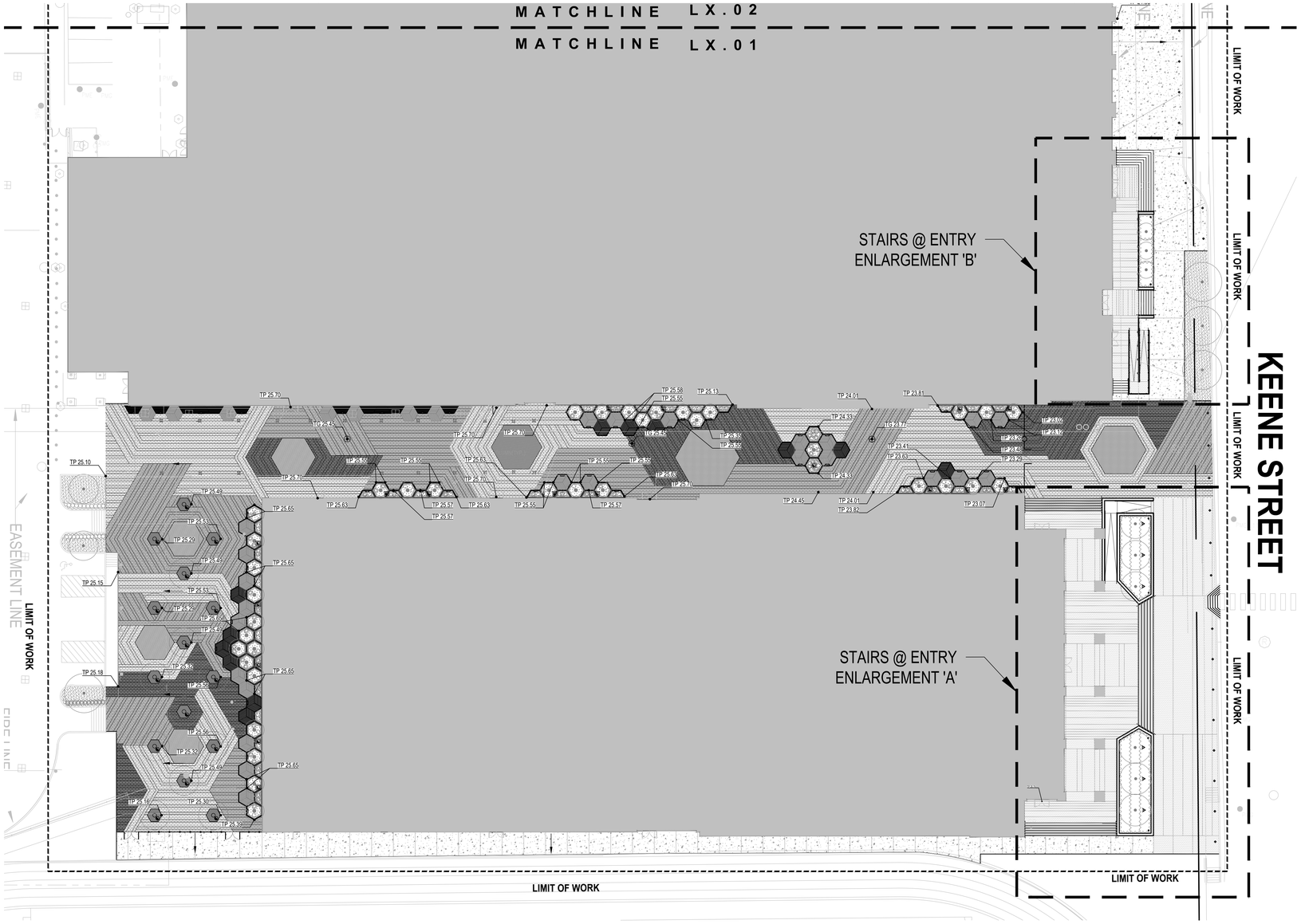
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

GRADING LEGEND

- PLANTING DRAIN
- LAWN DRAIN
- PAVING DRAIN
- PAVING DRAIN IN GRAVEL
- DRAIN INLET AT BOX CULVERT
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



0 10' 20'
1" = 20'

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LX.02
LX.03
LX.01

KEY PLAN
NORTH: PLAN TRUE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLIMORE
2076
STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
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GRADING AND DRAINAGE PLAN

L1.01

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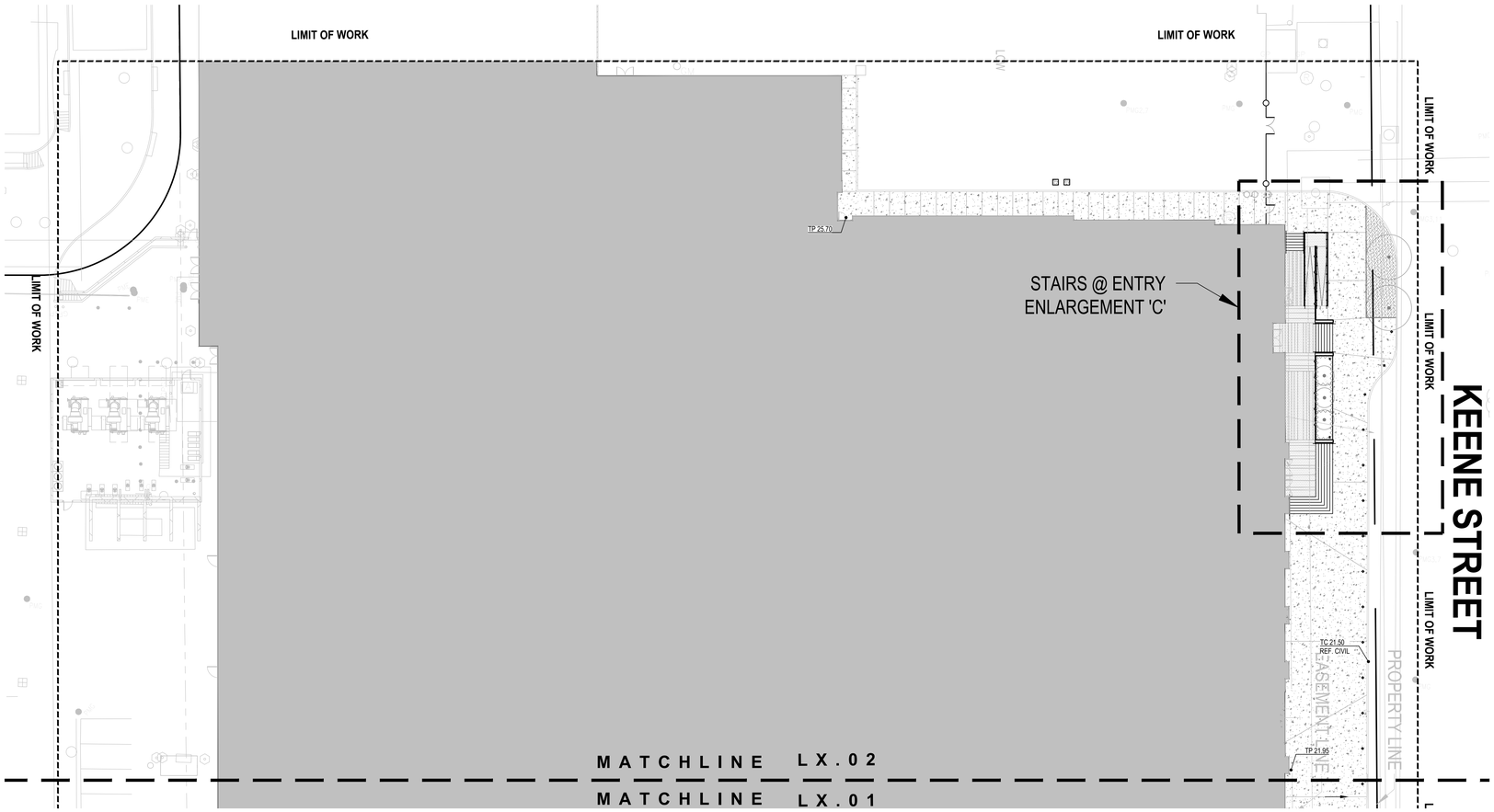
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

GRADING LEGEND

- PLANTING DRAIN
- LAWN DRAIN
- PAVING DRAIN
- PAVING DRAIN IN GRAVEL
- DRAIN INLET AT BOX CULVERT
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



0 10' 20'
1" = 20'

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Galena Park ISD

LX.02
LX.03
LX.01
KEY PLAN
NORTH: PLAN TRUE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLOWAY
6072
STATE OF TEXAS

12/05/2025

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Galena Park ISD	
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GRADING AND DRAINAGE PLAN

L1.02

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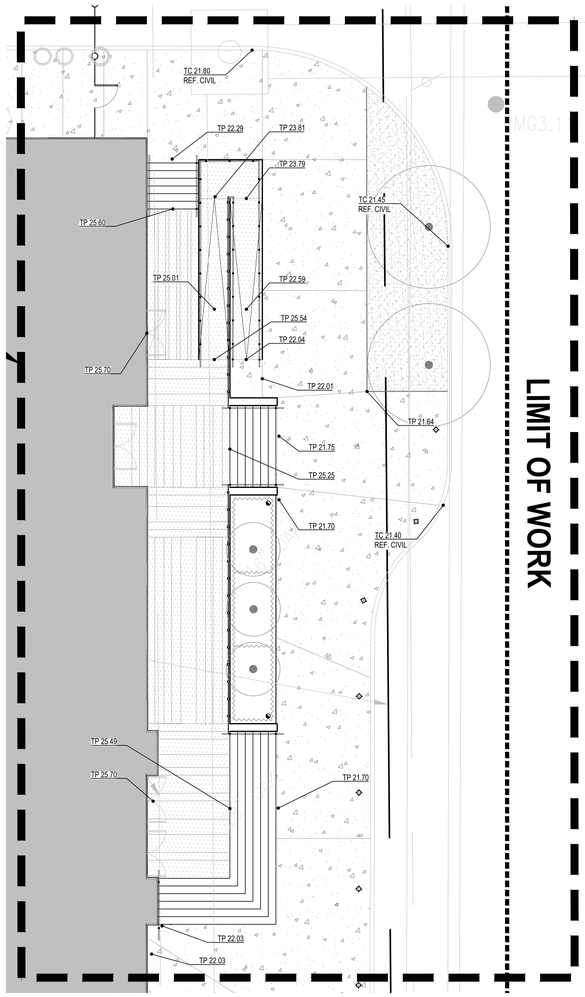
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

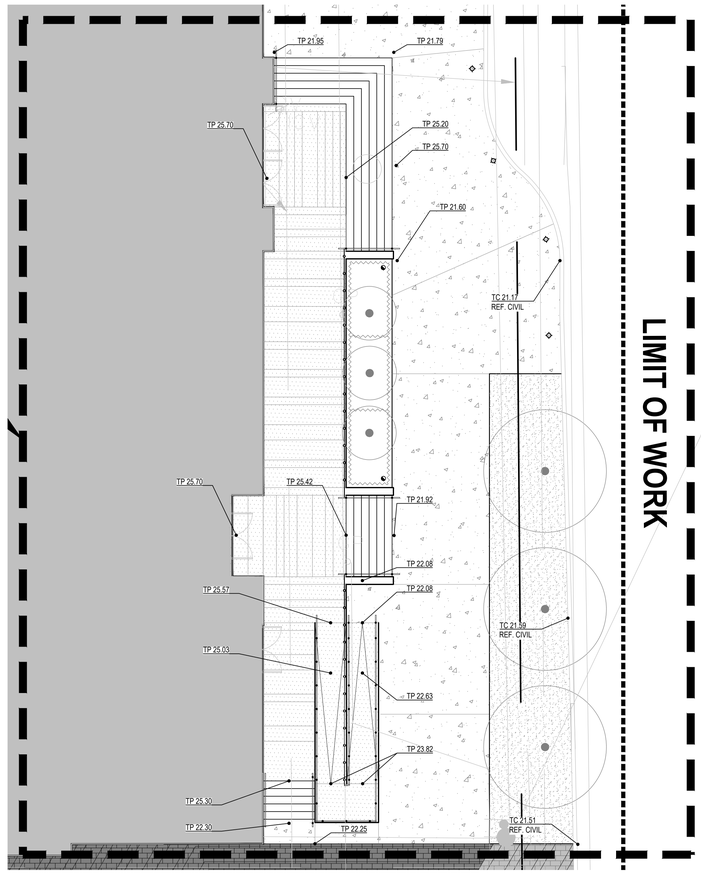
0"
1"

GRADING LEGEND

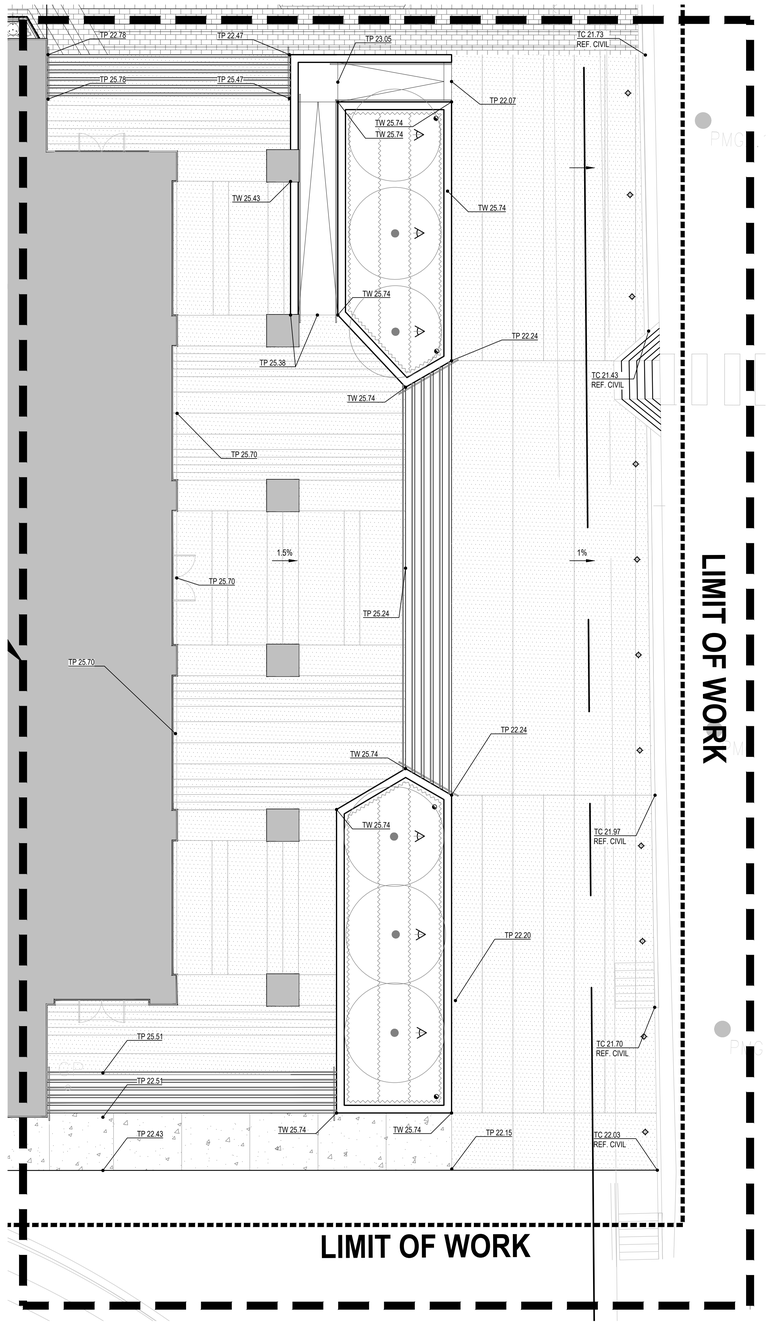
- PLANTING DRAIN
- LAWN DRAIN
- PAVING DRAIN
- PAVING DRAIN IN GRAVEL
- DRAIN INLET AT BOX CULVERT
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



03 STAIRS @ ENTRY ENLARGEMENT 'C'
1/8" = 1'-0"



02 STAIRS @ ENTRY ENLARGEMENT 'B'
1/8" = 1'-0"



01 STAIRS @ ENTRY ENLARGEMENT 'A'
1/8" = 1'-0"

0 4' 8'
1/8"
1'-0"

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Galena Park ISD

LX.02
LX.03
LX.01

KEY PLAN
NORTH: PLAN TRUE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALL
6072
STATE OF TEXAS

12/05/2025

CLIENT
Galena Park ISD

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December 5, 2025	240539

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GRADING AND DRAINAGE PLAN ENLARGEMENTS

L1.03

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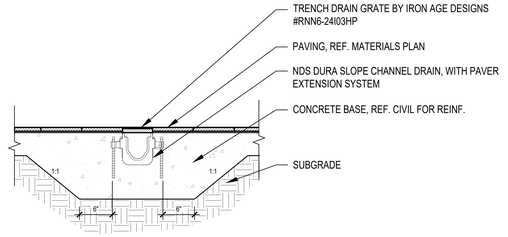
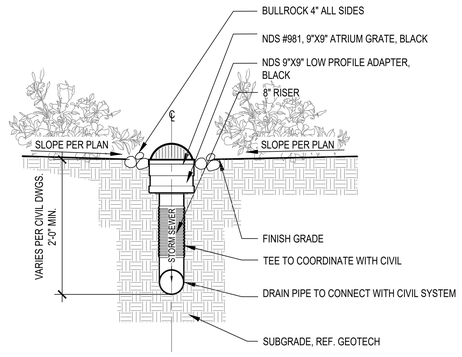
0"
1"

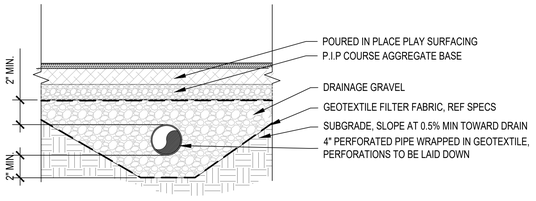
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:



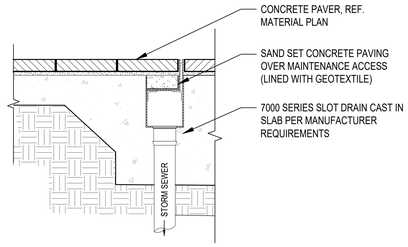
08 SECTION-TRENCH DRAIN
1"=1'-0"



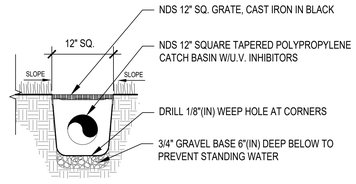
04 SECTION-PLANTING DRAIN
1"=1'-0"



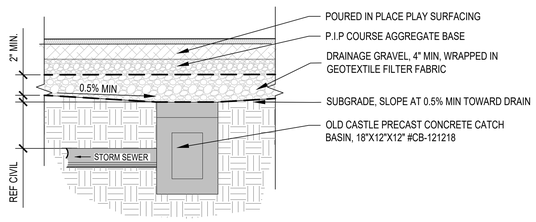
11 SECTION-FRENCH DRAIN AT PIP SURFACING
1"=1'-0"



07 SECTION-SLOT DRAIN
1"=1'-0"



03 SECTION-LAWN AREA DRAIN
1"=1'-0"



10 SECTION-AREA DRAIN AT PIP SURFACING
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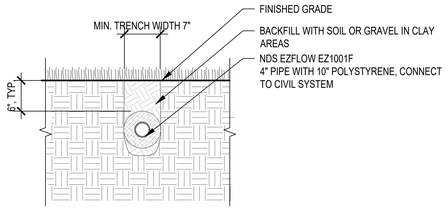
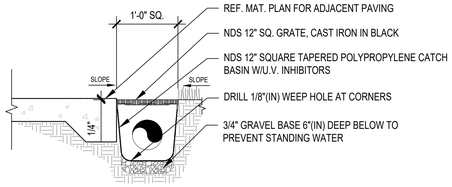
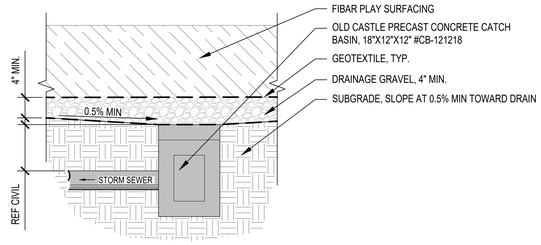


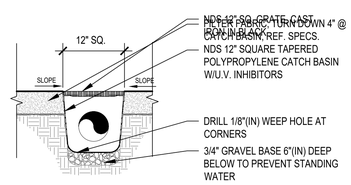
06 SECTION-FRENCH DRAIN SYSTEM
1"=1'-0"



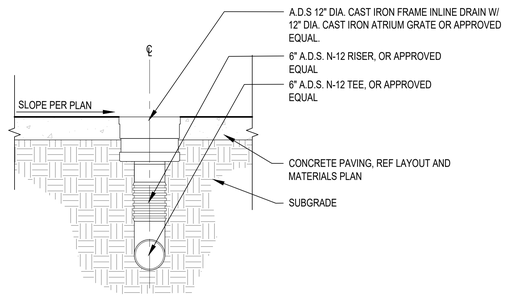
02 SECTION-LAWN DRAIN @ WALKWAY
1"=1'-0"



09 SECTION-AREA DRAIN @ FIBAR
1"=1'-0"



05 SECTION-AREA DRAIN IN GRAVEL
1"=1'-0"



01 SECTION-PAVING DRAIN
1"=1'-0"

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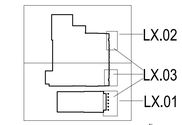

KEY PLAN
NORTH: PLAN TRUE

JACOB T. GALLEGOS 8072 LICENSED LANDSCAPE ARCHITECT STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

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GRADING AND DRAINAGE DETAILS

L1.04

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WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/DOOR:

0"
1"

CONCRETE CONSTRUCTION NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MASONRY CONSTRUCTION, CONCRETE FOOTINGS, BEAMS AND STRUCTURAL SUPPORTS, ETC., PRIOR TO STARTING WORK. CONTRACTOR SHALL PROVIDE FULL ONE YEAR WARRANTY. ALL DETAILS SHOWN ARE FOR DESIGN INTENT. CONTRACTOR IS RESPONSIBLE FOR OVERALL STRUCTURAL INTEGRITY OF COMPONENTS, AND SHALL MAKE REVISIONS TO DESIGNS HE DEEMS NECESSARY FOR THE WARRANTY PROVISIONS. REVISIONS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND THE OWNER FOR APPROVAL.
2. ALL POURED CONCRETE OR CONCRETE MASONRY UNIT DIRECTLY CONTACTING SOIL SHALL BE COATED WITH AN ASPHALTIC WATER PROOF MEMBRANE SEALER, "GULF STATES" OR EQUAL. PRIME WITH GULF STATES #207 MIN. 8 MM THICK. TROWEL APPLY $\frac{1}{16}$" LAYER OF GULF STATES #210 ASPHALTIC MEMBRANE SEALER
3. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR AGAINST MATERIAL DEFECTS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS AFTER SUBSTANTIAL COMPLETION UNLESS OTHERWISE STATED ABOVE.

CONCRETE
1. MIN. 28 DAY STRENGTH AS FOLLOWS:
   FOUNDATIONS-3,000 PSI
   MIN. CEMENT CONTENT-5 SACKS/CY
   MAXIMUM WATER/CEMENT RATIO-0.50
   SLUMP RANGE-3 $\frac{1}{2}$"MIN-5 $\frac{1}{2}$" MAX
2. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
3. FLY ASH-IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 20% OF CEMENTITIOUS MATERIALS.

REINFORCING:
1. ASTM A615 (Fy=60 KSI) DEFORMED BARS FOR ALL BARS
2. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706.
3. WELDED WIRE FABRIC PER ASTM A185, WIRE PER ASTM A82.
4. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER.
5. LATEST ACI CODE AND DETAILING MANUAL APPLY.
6. CLEAR CONCRETE COVERAGE AS FOLLOWS:
   6.1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH-3"
   6.2. EXPOSED TO EARTH OR WEATHER
   6.2.1. #6 OR LARGER-2"
   6.2.2. #5 OR SMALLER-1 $\frac{1}{2}$"
   6.2. FLAT SLAB- 2"
   6.3. ALL OTHER PER LATEST EDITION OF ACI 318

CONTROL AND EXPANSION JOINT NOTES:

1. PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING OR WHERE CONCRETE ABUTS UTILITY VAULTS OR BOXES. REQUIRED EXPANSION JOINTS AT ALL VAULTS AND VERTICAL STRUCTURES MAY NOT BE SHOWN ON THESE DRAWINGS BUT ARE A CONSTRUCTION REQUIREMENT.
2. **CONTRACTOR TO PROVIDE SHOP DRAWING(S) FOR OVERALL LAYOUT OF ALL CONTROL AND EXPANSION JOINTS.**

METAL FABRICATION NOTES:

1. ALL METAL COMPONENTS TO BE STEEL OR ALUMINUM AS INDICATED
2. STANDARDS: SUBMIT SPECIFICATIONS ON ALUMINUM AND STEEL GRADE AND QUALITY FOR APPROVAL
3. WELDS TO BE CONTINUOUS AND NEAT, GRIND SMOOTH AND FLUSH, GRIND INSIDE CORNERS TO SMOOTH ROUNDED FORM.
4. PREPARATION: BLAST AND GRIND/WIRE BRUSH TO REMOVE ALL MILL SCALE AND SURFACE FLAKING, AND AS RECOMMENDED BY PRIMER MANUFACTURER.
5. PAINTING
   5.1. PRIMER AND COATING APPLICATION: TO BE **MATTHEWS PAINT SYSTEM**. LANDSCAPE ARCHITECT TO PROVIDE SELECTION AND APPROVAL ON APPLIED COLORS AND FINISHES.
   5.2. SUBMIT PAINTED METAL SAMPLES FOR APPROVAL
6. GALVANIZED
   6.1. HOT DIP GALVANIZE ALL COMPONENTS INCLUDING HARDWARE
   6.2. NO SPRAY GALVANIZATION WILL BE ACCEPTED

PAVING SCHEDULE (P)

SYMBOL	KEY	DESCRIPTION	SUPPLIER	MATERIAL	SIZE	COLOR	FINISH	REMARK	DETAIL
	P1.1	CONCRETE PAVING: PEDESTRIAN RATED	-	CONCRETE	-	NATURAL GREY	MED. BROOM FINISH	-REINFORCEMENT AND SIZING REF. CIVIL	01-03 L3.01
	P1.2	CONCRETE PAVING: PEDESTRIAN RATED WITH FINISH AND SAWCUT JOINTS	-	CONCRETE	-	NATURAL GREY	TOP-CAST 05	-CONTRACTOR SHALL SUBMIT 5'X5' MOCK UP FOR LA APPROVAL	01-03 L3.01
	P2.1	CONCRETE UNIT PAVERS: EMPIRE BY BELGARD	BELGARD	CONCRETE	3"X12"	PEWTER	GROOVE PATTERN TO BE SELECTED	-CONTRACTOR SHALL SUBMIT 5'X5' MOCK UP FOR LA APPROVAL	01-03 L3.01
	P2.2	CONCRETE UNIT PAVERS: EMPIRE BY BELGARD	BELGARD	CONCRETE	3"X12"	CHARCOAL	GROOVE PATTERN TO BE SELECTED	-CONTRACTOR SHALL SUBMIT 5'X5' MOCK UP FOR LA APPROVAL	01-03 L3.01
	P2.3	CONCRETE UNIT PAVERS: EMPIRE BY BELGARD	BELGARD	CONCRETE	3"X12"	LIGHT GRAY	GROOVE PATTERN TO BE SELECTED	-CONTRACTOR SHALL SUBMIT 5'X5' MOCK UP FOR LA APPROVAL	01-03 L3.01
	P3	SANDBLASTED CONCRETE WITH SCHOOL LOGOS	-	CONCRETE	-	TO BE SELECTED	-	LANDSCAPE ARCHITECT TO PROVIDE FINAL GRAPHIC DESIGN	
	P4	DECORATIVE GRAVEL	SITE ONE, ALAMO STONE, OR APPROVED EQUAL	SIENNA COBBLES	80% 6"-12" 20% 2"-4"	NATURAL	-	-	
	SE	STEEL EDGING	JD RUSSELL	STEEL	14GAx6" ROLLED TOP	-	GALVANIZED	REF. SPECS	

PAVING NOTE(S):
1. 9'(FT)X9'(FT) MOCK-UPS TO BE PROVIDED FOR ALL PAVING SYSTEMS. EDGELAND TO PROVIDE APPROVAL BEFORE INSTALLATION
2. CONTRACTOR TO PROVIDE SHOP DRAWING LAYOUT FOR ALL CONTROL AND EXPANSION JOINTS FOR LA APPROVAL
3. FOR SUBSTITUTIONS TO BE APPROVED, CONTRACTOR TO SUBMIT EQUALS PRIOR TO BIDS BEING ACCEPTED

CURB, STEP AND WALL SCHEDULE (C,S,W)

KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	FINISH	REMARK	DETAIL
C1.1	CURB: 6" CIP CONCRETE CURB	CONCRETE	-	-	-	-REF. CIVIL	
S1.1	STAIR: CIP	-	-	-	-	-REF. ARCH	04 L3.02
S2.1	STAIR: CIP W/ PRECAST CONCRETE TREADS AND RISERS	-	WAUSAU	-	-	-REF. ARCH	03 L3.02
W1.1	RETAINING SEAT WALL: CIP WITH FORMLINER FINISH	-	FITZGERALD FORMINERS	-	FORMLINER: 14305 FLUTED RIB	-	01 L3.02
H1	HANDRAIL, MATCH ARCHITECTURE	-	-	-	-	-	
H2	RAILING: FSR BY VIVA RAILINGS	-	-	1.5" DIA. , 24" HEIGHT	-	-FALL PROTECTION, NO HANDRAIL	
R1	CURB RAMP: TYP. CONCRETE CURB RAMP	-	-	-	-	-REF. CIVIL	
R2	RAMP: ADA ACCESS RAMP WITH ASSOCIATED HANDRAILS	-	-	-	-	-REF. ARCH	

AMENITY SCHEDULE (A)

KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARK	DETAIL
A1.1	SOLID HEX GREEN ISLES PLANTER MODULE	STEEL	VESTRE	67"(IN)X76"(IN)X27"(IN)	RAL 1018 ZINKGELB	POWDERCOATED	-CONTACT JOHN PATTERSON @ 512.554.1041	02 L3.02
A1.2	SOLID HEX GREEN ISLES PLANTER $\frac{1}{2}$ MODULE	STEEL	VESTRE	67"(IN)X76"(IN)X35"(IN)	RAL 7012 BASALTGRAU	POWDERCOATED	-CONTACT JOHN PATTERSON @ 512.554.1041	02 L3.02
A1.3	SOLID HEX GREEN ISLES PODIUM MODULE	STEEL/WOOD	VESTRE	67"(IN)X76"(IN)X19"(IN)	RAL 1018 ZINKGELB	POWDERCOATED	-CONTACT JOHN PATTERSON @ 512.554.1041	05 L3.02
A1.4	SOLID HEX GREEN ISLES PODIUM MODULE: SURFACE MOUNTED	STEEL/WOOD	VESTRE	67"(IN)X76"(IN)X19"(IN)	RAL 7047 TELEGRAU 4	POWDERCOATED	-CONTACT JOHN PATTERSON @ 512.554.1041	05 L3.02
A1.5	SOLID HEX GREEN ISLES $\frac{1}{2}$ PODIUM MODULE: SURFACE MOUNTED	STEEL/WOOD	VESTRE	67"(IN)X76"(IN)X19"(IN)	RAL 7012 BASALTGRAU	POWDERCOATED	-CONTACT JOHN PATTERSON @ 512.554.1041	04 L3.01
A2	TREE GRATE: HEXAGON	IRON	URBAN ACCESSORIES	6'	-	RAW	-CONTACT SPRUCE & GANDER @ 877.650.7711	
A4.1	ORN. FENCE-FLEXX, FUSION PATTERN	STEEL	MAGLIN	6' TALL	YELLOW	POWDERCOATED	CONTACT MAGLIN @ 800.716.5506	06 L3.02
A4.2	ORN. GATE- FLEXX, FUSION PATTERN	STEEL	MAGLIN	6' TALL	YELLOW	POWDERCOATED	CONTACT MAGLIN @ 800.716.5506	
A4.3	ORN. FENCE-6' TALL, ECHELON II	ALUMINUM	AMERISTAR	6' TALL	BLACK	PAINTED		
A4.4	ORN. PEDESTRIAN GATE, ECHELON II GENESIS GATE	ALUMINUM	AMERISTAR	6' TALL	BLACK	PAINTED		
A4.5	ORN. MAINTENANCE GATE, ECHELON II GENESIS GATE	ALUMINUM	AMERISTAR	6' TALL	BLACK	PAINTED		

LIGHTING SCHEDULE

SYMBOL	KEY	DESCRIPTION	SUPPLIER	COLOR TEMP.	SIZE	COLOR	FINISH	REMARK	DETAIL
	L1	BULLETO MINI FLOOD LIGHT PROJECTOR	TARGETTI OR APPROVED EQ.	3000K	-	BLACK	POWDERCOAT	CONTACT DAVID TEMPLEMAN @ LESCO (832) 292-6090	-
	L2	CASA 12-IN EXTERIOR WALL/STEP LIGHT	KUZCO OR APPROVED EQ.	3000K	-	BLACK	POWDERCOAT	CONTACT DAVID TEMPLEMAN @ LESCO (832) 292-6090	-
	L3	THETA PUCK HANDRAIL LIGHT	ALPHABET OR APPROVED EQ.	3000K	-	STAINLESS STEEL	ELECTROPOLISHED	CONTACT DAVID TEMPLEMAN @ LESCO (832) 292-6090	-
	L4	DURATAPE DIM-TO-WARM IP20	TARGETTI OR APPROVED EQ.	3000K	-	-	-	CONTACT DAVID TEMPLEMAN @ LESCO (832) 292-6090	-
	L5	GLEN 39-IN EXTERIOR BOLLARD	KUZCO OR APPROVED EQ.	3000K	D6-3" x H38-5/8"	BLACK	POWDERCOAT	CONTACT DAVID TEMPLEMAN @ LESCO (832) 292-6090	-

LIGHTING NOTE(S):
1. **FOUNDATIONS FOR PEDESTRIAN POLES TO BE MAX 3" ABOVE ADJACENT PAVING, NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS.**
2. ALL LIGHT POLE FOUNDATIONS LOCATED WITHIN PEDESTRIAN PAVING TO BE LOCATED FLUSH WITH PAVING
3. ALL EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL
4. LIGHTING FOR ANY STAGE OR AMPHITHEATER AREAS TO BE ON SEPARATE CONTROLLED CIRCUIT

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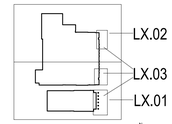
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE



12/05/2025

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: AT

DRAWN BY: AT

MATERIALS NOTES AND SCHEDULE

L2.00

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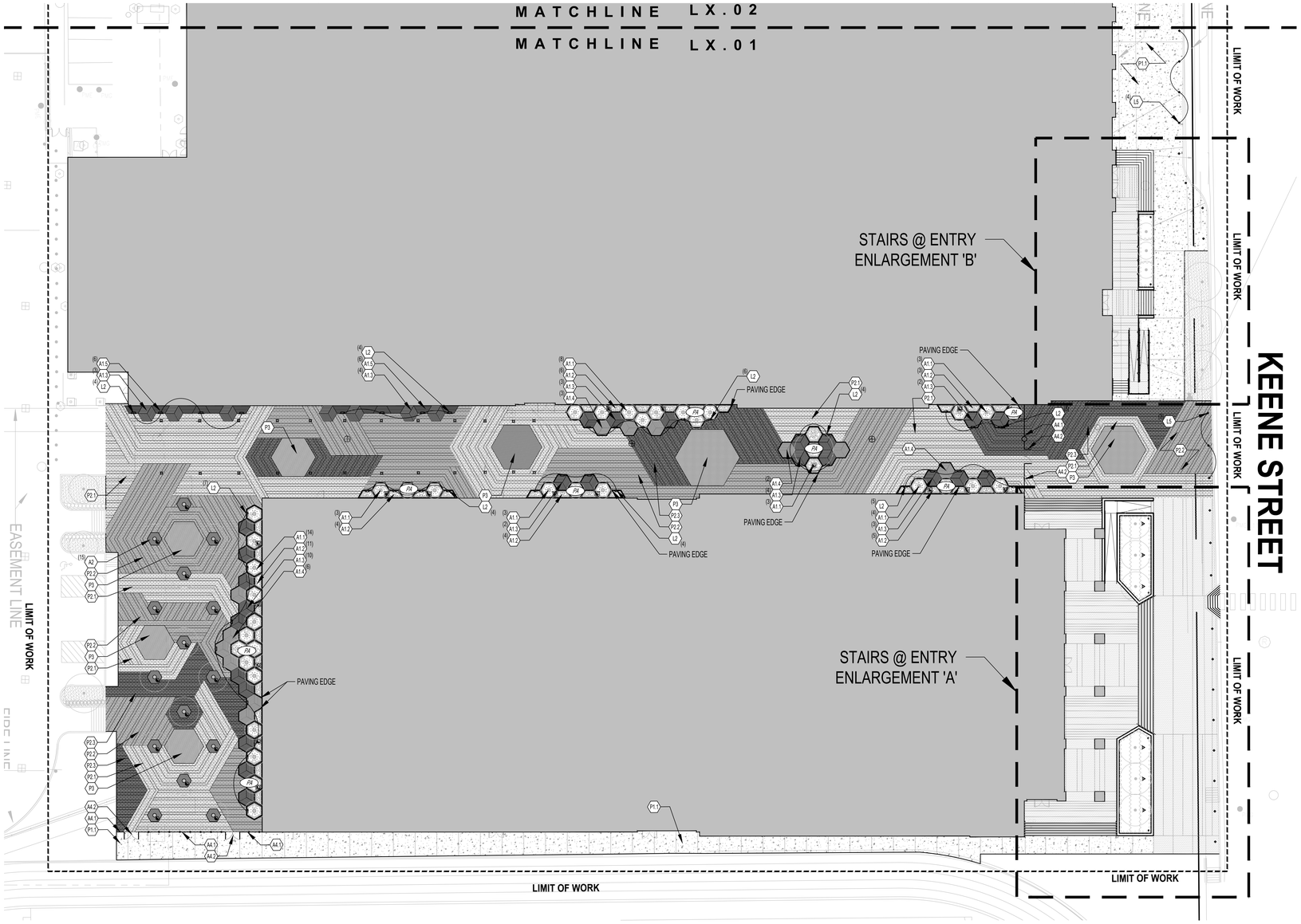
12/3/2025 7:59:17 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

MATERIALS LEGEND

- TYP. CONCRETE
- SPECIALTY CONCRETE
- PEDESTRIAN PAVERS
- DECORATIVE GRAVEL
- TOE OF STAIR
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PLANTED AREA, REF. PLANTING PLAN



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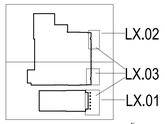

KEY PLAN

NORTH: PLAN TRUE

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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MATERIALS PLAN

L2.01

0 10' 20'
1" = 20'

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Plot Stamp:
12/3/2025 7:59:17 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"



MATERIALS LEGEND

- TYP. CONCRETE
- SPECIALTY CONCRETE
- PEDESTRIAN PAVERS
- DECORATIVE GRAVEL
- TOE OF STAIR
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PP — PLANTED AREA, REF. PLANTING PLAN

0 10' 20'
1" = 20'

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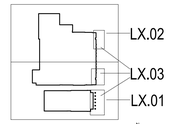

KEY PLAN
NORTH: PLAN TRUE



12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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MATERIALS PLAN

L2.02

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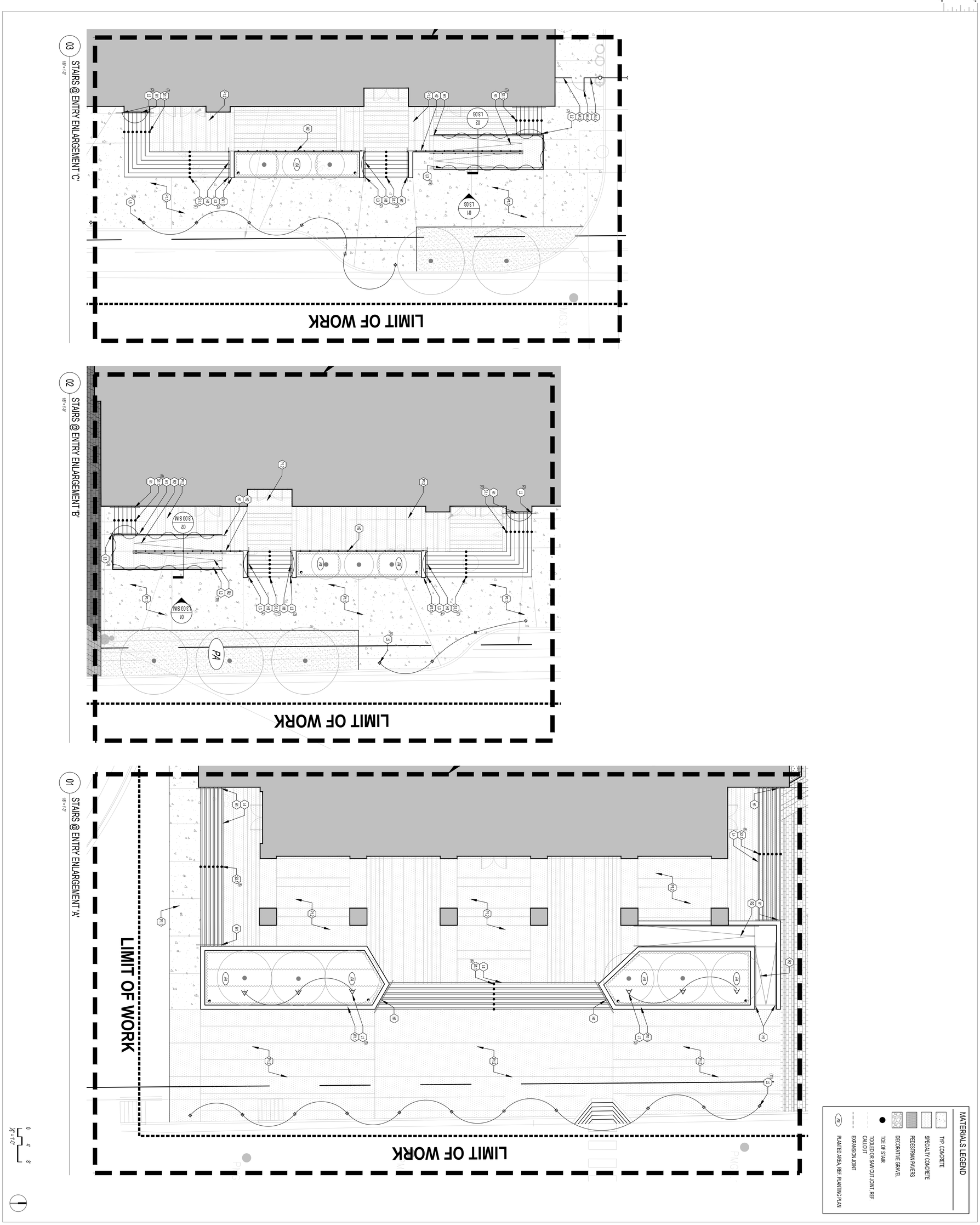
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:



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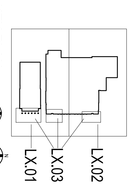
ISSUE FOR PROPOSAL

KEY PLAN



CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

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MATERIALS PLAN ENLARGEMENTS

L2.03

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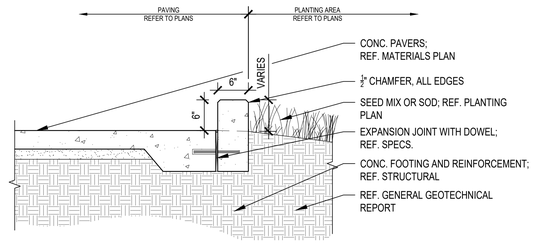
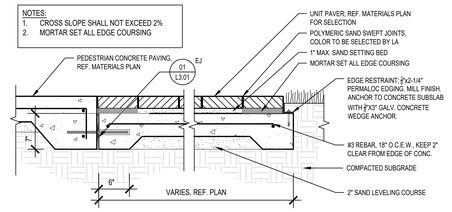
0"
1"

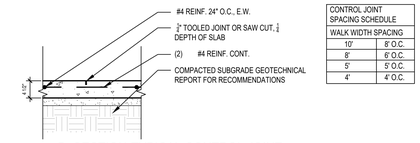
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/DOOR:



03 SECTION–CIP CONCRETE CURB
1" = 1'–0"

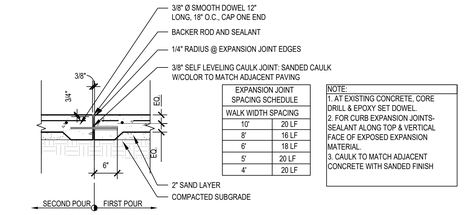


02 SECTION–TYP. PEDESTRIAN UNIT PAVERS
1" = 1'–0"



CONTROL JOINT SPACING SCHEDULE	
WALK WIDTH SPACING	
10'	8' O.C.
8'	6' O.C.
6'	5' O.C.
4'	4' O.C.

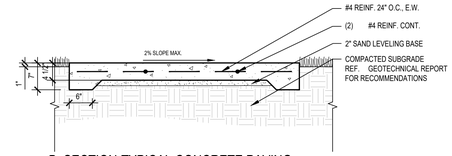
D. SECTION-TYPICAL CONTROL JOINT



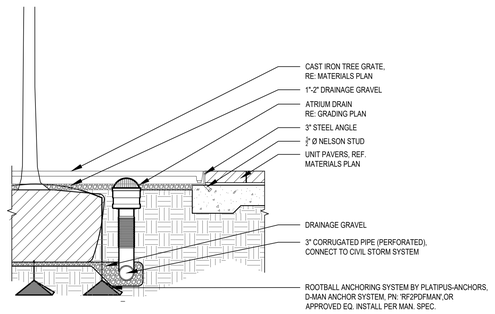
EXPANSION JOINT SPACING SCHEDULE	
WALK WIDTH SPACING	
10'	20 LF
8'	16 LF
6'	18 LF
5'	20 LF
4'	20 LF

NOTE:
1. AT EXISTING CONCRETE, CORE DRILL & EPOXY SET DOWEL.
2. FOR CURB EXPANSION JOINTS- SEALANT ALONG TOP & VERTICAL FACE OF EXPOSED EXPANSION MATERIAL.
3. CAULK TO MATCH ADJACENT CONCRETE WITH SANDED FINISH

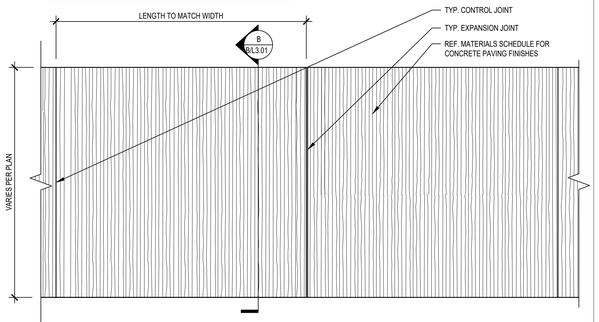
C. SECTION-TYPICAL EXPANSION JOINT



B. SECTION-TYPICAL CONCRETE PAVING



04 SECTION–TREE GRATE
1" = 1'–0"



A. PLAN-TYPICAL CONCRETE PAVING

01 TYPICAL PED. CONCRETE PAVING
3/4" = 1'–0"

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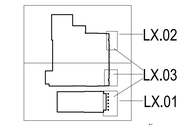

KEY PLAN
NORTH: PLAN TRUE



12/05/2025

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DATE	PROJECT NUMBER
December 5, 2025	240539

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HARDSCAPE DETAILS

L3.01

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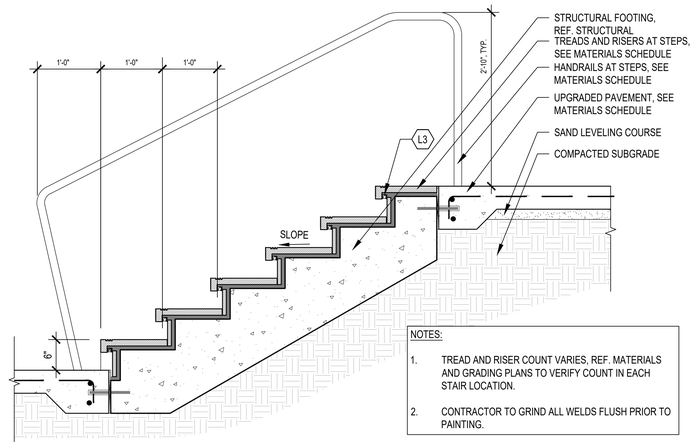
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/DOOR:

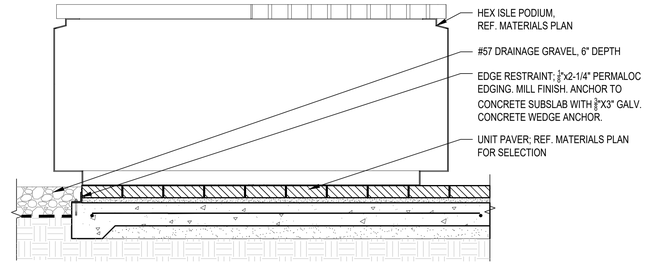
0"
1"



NOTES:
1. TREAD AND RISER COUNT VARIES, REF. MATERIALS AND GRADING PLANS TO VERIFY COUNT IN EACH STAIR LOCATION.
2. CONTRACTOR TO GRIND ALL WELDS FLUSH PRIOR TO PAINTING.

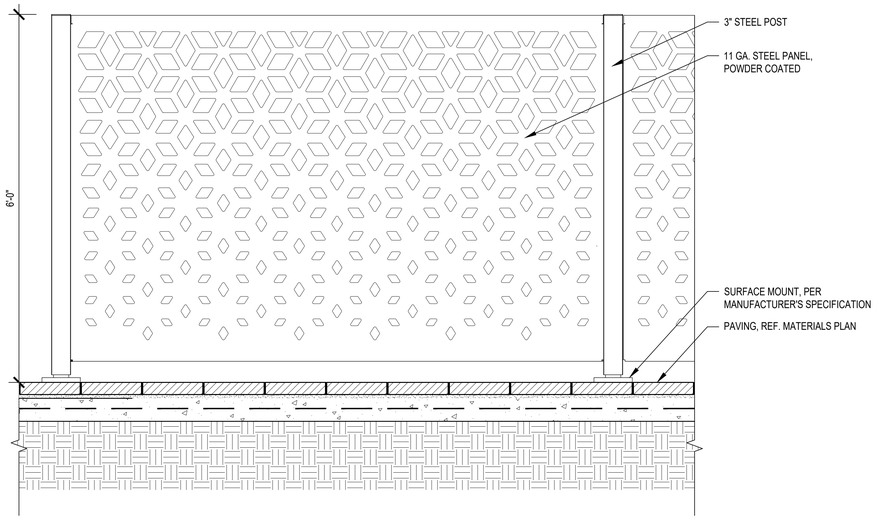
03 SECTION–CIP STAIRS W PRECAST TREADS AND RISERS
1" = 1'–0"

NOTES:
1. PODIUM HEIGHT AND COLOR VARY, REF. MATERIALS PLAN.
2. PROVIDE ELECTRICAL SUPPLY/CONDUIT WHERE NECESSARY.

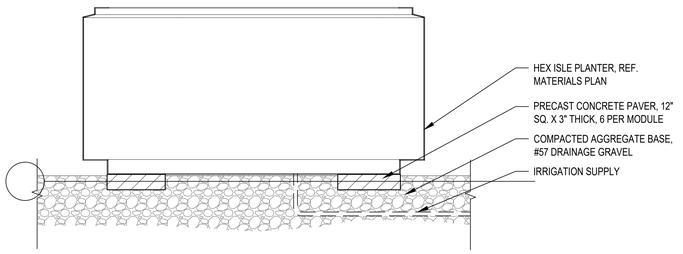


05 SECTION–HEX ISLE PODIUM MODULE
1" = 1'–0"

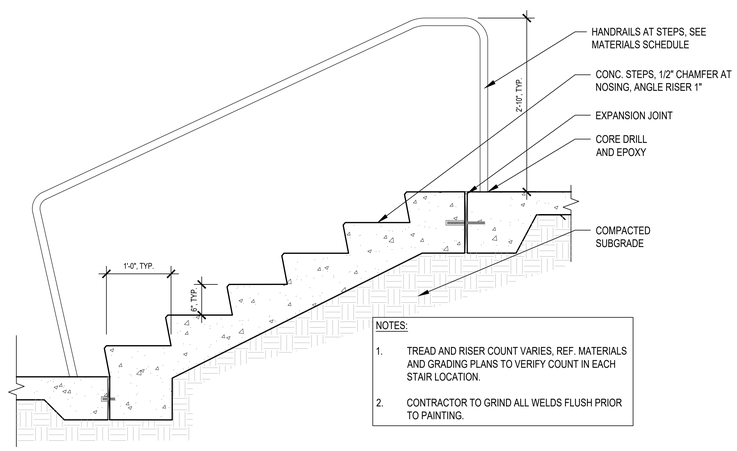
NOTES:
1. PLANTER HEIGHT AND COLOR VARY, REF. MATERIALS PLAN.
2. HEX ISLE PLANTERS TO INCLUDE TREETEC TREE CARE SYSTEM.
3. PROVIDE IRRIGATION TO ALL HEX ISLE PLANTERS.
4. PROVIDE ELECTRICAL SUPPLY/CONDUIT WHERE NECESSARY.



06 ELEVATION–FLEXX FENCE
1" = 1'–0"

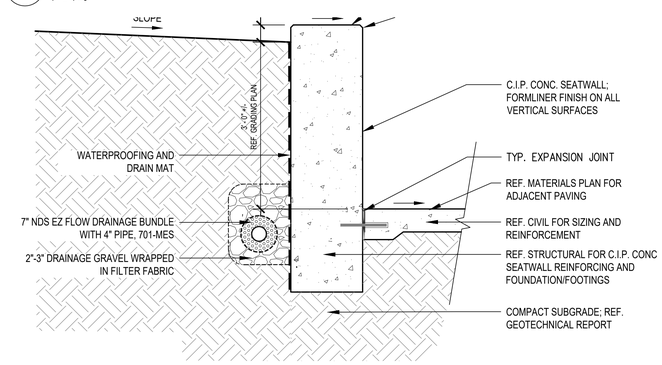


02 SECTION–HEX ISLE PLANTER MODULE
1" = 1'–0"



NOTES:
1. TREAD AND RISER COUNT VARIES, REF. MATERIALS AND GRADING PLANS TO VERIFY COUNT IN EACH STAIR LOCATION.
2. CONTRACTOR TO GRIND ALL WELDS FLUSH PRIOR TO PAINTING.

04 SECTION–CIP CONC. STAIRS
1" = 1'–0"



01 SECTION–CONC. RETAINING WALL
1" = 1'–0"

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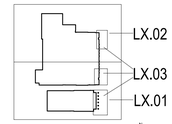
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL





KEY PLAN
NORTH: PLAN TRUE



12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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WALLS AND STAIRS

L3.02

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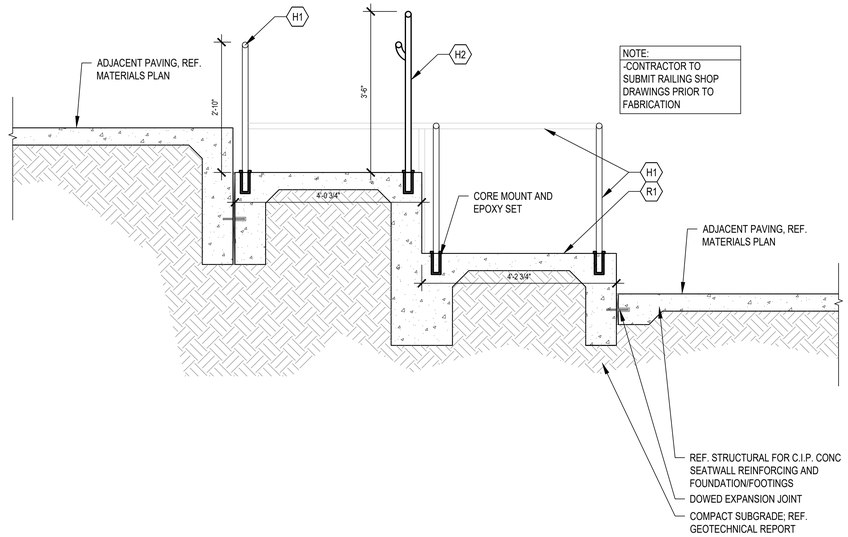
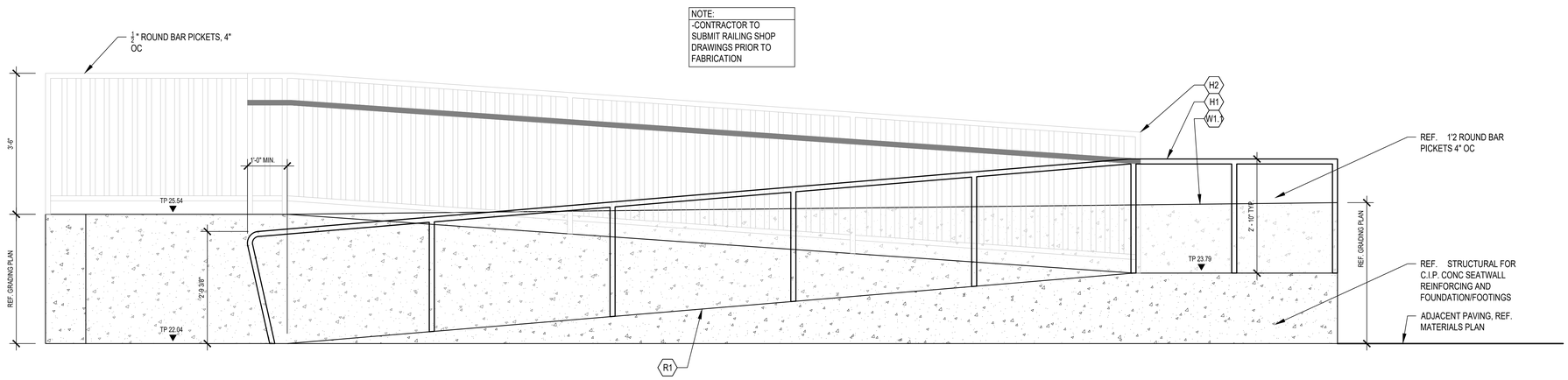


02 SECTION–RAMP @ ENTRY
3/4" = 1'–0"



01 ELEVATION–RAMP @ ENTRY
3/4" = 1'–0"

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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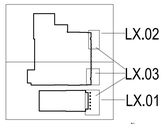

KEY PLAN
NORTH: PLAN TRUE

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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WALLS AND STAIRS

L3.03

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

PLANTING NOTES:

1. PLANTING SOIL MIXTURE: REF. SPECIFICATIONS.
2. ALL ON SITE TOPSOIL FROM DESIGNATED STOCKPILE AREA OR BORROW SITE WILL BE TESTED TO COMPLY WITH CONFORMITY SHOWN IN SOIL PREPARATION SPECIFICATION
3. BIDDING CONTRACTORS BE ADVISED THAT ALL NEW TREE MATERIAL IS TO BE CONTAINER-GROWN CORRESPONDING TO STATED ROOT BALL SIZES AS RECOGNIZED BY INDUSTRY STANDARDS. THIS SHALL EXCLUDE ALL B&B, MACHINE MOVED, OR TRANSPLANTED TREES FROM THE BIDDING PROCESS UNLESS OTHERWISE INDICATED. THE INSTALLATION CONTRACTOR SHALL BE PREPARED TO PROVIDE PHOTOGRAPHS OF INTENDED PLANT MATERIAL ALONG WITH SIGNED CLARIFICATION THAT PLANT MATERIAL MEETS THESE REQUIREMENTS AND THAT NO VARIATIONS OR SUBSTITUTIONS HAVE BEEN MADE.
4. THE LANDSCAPE CONTRACTOR DOING THE INSTALLATION OF THIS WORK SHALL SUBMIT INFORMATION TO THE LA REGARDING THE SOURCING OF PLANT MATERIAL. ALL PLANT MATERIAL MUST BE APPROVED BY THE LA.
5. IF THE PLANTING PLAN DOES NOT AGREE WITH THE PLANT LIST, THE QUANTITIES INDICATED GRAPHICALLY ON THE PLANTING PLAN SHALL GOVERN.
6. IF IRRIGATION IS NOT PROVIDED TO PROPOSED TREES, AND DECLINED BY THE OWNER THE CONTRACTOR IS TO INSTALL: **TREE GATORS** REFERENCE SPECIFICATIONS.
7. CONTRACTOR TO PROVIDE ONSITE INVESTIGATION FOR ALL TREE PITS. SOIL CONDITIONS VARY FROM HEAVY CLAY TO SOLID BEDROCK. RESPONSIBILITY FOR ADDRESSING THESE CONDITIONS FALLS ON THE CONTRACTOR.
8. **PROVIDE $\frac{3}{16}$"X48" ORANGE DRIVEWAY MARKERS W/REFLECTORS 15' O.C. WHERE ALL NATIVE SEEDING MEETS MOWED LAWN CONDITION. CONFIRM ANY CONFLICTS WITH LANDSCAPE ARCHITECT.**

IRRIGATION NOTES:

1. REFERENCE IRRIGATION PLANS AND DETAILS. IF IRRIGATION PLANS ARE NOT PROVIDED THE CONTRACTOR IS TO PRODUCE SEALED IRRIGATION DRAWINGS USING THE BELOW GUIDELINES. IRRIGATION DRAWINGS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
2. IRRIGATION DESIGNS ARE TO BE DESIGNED BY A LICENSED IRRIGATOR IN THE STATE IN WHICH THE PROJECT IS BEING CONSTRUCTED
3. IRRIGATION DESIGN TO PROVIDE TEMPORARY IRRIGATION AT ALL AREAS SHOWN TO BE SEEDED
4. VERIFY TAP LOCATION WITH CIVIL ENGINEER, CONFIRM LOCATION, SIZE AND METHOD
5. VERIFY STATIC PRESSURE OF WATER SOURCE AT POINT OF CONNECTION PRIOR TO DESIGN AND INSTALLATION
6. HEAD TO HEAD COVERAGE OR BETTER; DO NOT EXCEED MANUFACTURER'S PUBLISHED RADIUS OF THROW.
7. MAINLINE AND SECTION PIPE TO BE SCHEDULE 40
8. ALL PIPE UNDER PAVEMENT SHALL BE IN SLEEVES
9. PREFERRED EQUIPMENT:
   - 9.1. CLIENT, CITY AND DISTRICT STANDARDS SUPERCEDE ANY OF THE FOLLOWING NOTES.
   - 9.2. SPRAY HEAD:RAINBIRD, 180X SERIES; POP-UP HEIGHT APPROPRIATE FOR PLANT MATERIAL AT TIME OF PLANTING
   - 9.3. NOZZLES: RAINBIRD MPR
   - 9.4. ROTOR HEADS: RAINBIRD 500 SERIES
   - 9.5. INCLUDE SWING JOINTS ON ALL SPRAY POP UPS AND ROTORS
   - 9.6. REMOTE CONTROL VALVE: PEB SERIES BRASS.
   - 9.7. BALL VALVE: LASCO UNION TYPE BALL VALVE SAME SIZE AS CONTROL VALVE
   - 9.8. TREE BUBBLERS: GPH AND EMITTER SPACING APPROPRIATE FOR SOIL CONDITIONS, PROVIDE DETAIL
   - 9.9. QUCK COUPLERS: RAINBIRD 33DRC-$\frac{3}{4}$" DIAMETER OUTLET
   - 9.10. VALVE BOXES: RAIN BIRD VB SERIES 12x18 MIN. FOR 1-$\frac{1}{2}$" VALVE OR SMALLER, JUMBO 17x30 FOR 2" VALVE AND LARGER; ALLOW 24" BETWEEN VALVE BOXES. ALIGN SQUARE TO ADJACENT PAVING
   - 9.11. CONTROLLER: RAINBIRD ESP-LXME2/PRO WITH LXMSS CABINET AND PEDESTAL; VERIFY ON PLAN WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
10. CONTRACTOR TO CONTACT IRRIGATION MANUFACTURER TO PROGRAM ADEQUATE WATERING SCHEDULE ON IRRIGATION CONTROLLER UPON PLANTING INSTALLATION.
11. CONTRACTOR TO COORDINATE MANUFACTURER'S MOBILE ACCESS TO IRRIGATION CONTROLLER WITH CLIENT BEFORE SUBSTANTIAL COMPLETION OR BEFORE TURNING OVER MAINTENANCE DUTIES TO CLIENT UPON MAINTENANCE AGREEMENT COMPLETION.

SITE/LANDSCAPE SLEEVING NOTES:

1. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL OTHER CONSULTANTS AND SUB-CONTRACTOR SLEEVING REQUIREMENTS AND PLACE SUCH SLEEVES PRIOR TO HARDSCAPE INSTALLATION.

PLANTING SCHEDULE

	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS/COMMENTS
TREES						
	IA	ILEX X ATTENUATA 'EAGLESTON'	EAGLESTON HOLLY	45 GALLON	10'(FT)	FULL, WELL BRANCHED. NATURAL FORM. 3' CLEAR 'TRUK
	TD	TAXODIUM DISTICHUM	BALD CYPRESS	65 GALLON	14'-16'(FT)	FULL, WELL BRANCHED
	QV	QUERCUS VIRGINIANA	LIVE OAK	65 GALLON	14'-16'(FT)	FULL, WELL BRANCHED
	ED	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY	100 GALLON	14'-16'(FT)	FULL, WELL BRANCHED. 4' CLEAR TRUNK
	UP	ULMUS PARVIFOLIA	LACEBARK ELM	65 GALLON	14'-16'(FT)	FULL, WELL BRANCHED
	VA	VITEX AGNUS-CASTUS "SHOAL CREEK'	SHOAL CREEK CHASTE TREE	45 GALLON	10'(FT)	FULL, WELL BRANCHED, MULTI-TRUNK (THREE LEADER); MATCHED SPECIMEN
SHRUBS						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS/COMMENTS
	OE	OPUNTIA ELLISIANA	THORNLESS PRICKLY PEAR	5 GALLON	30" O.C.	FULL PLANTS, ROOTED TO CONTAINER
PERENNIALS						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS/COMMENTS
	RF	RUDBECKIA FULGIDA VAR. SULLIVANTII 'GOLDSTRUM'	BLACK EYED SUSAN	1 GALLON	16" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	SG	SALVIA GREGGII	AUTUMN SAGE	1 GALLON	16" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	YR	YUCCA RECURVIFOLIA	SOFT LEAF YUCCA	5 GALLON	24" O.C.	FULL PLANTS, ROOTED TO CONTAINER
GROUNDCOVERS						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS/COMMENTS
	FT	FICUS TIKOUA	SANDI LEAF FIG IVY	1 GALLON	12" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	LM	LIRIOPE MUSCARI 'TIDWELL'S BIG BLUE'	LILY TURF	1 GALLON	12" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	TP/DA	TRADESCANTIA PALLIDA DICHONDRA ARGENTEA	PURPLE QUEEN SILVER PONYFOOT	1 GALLON	50/50 MIX	FULL PLANTS, ROOTED TO CONTAINER. HALF PLANTER MODULE: 3 EA. FULL PLANTER MODULE: 5 EA.
TURF						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME		DENSITY	REMARKS/COMMENTS
	SOD	CYNODON DACTYLON 'TIFF TUFF'	BERMUDA 'TIFF TUFF' TURF			SOLID SOD, STAGGERED

* ALL RAISED PLANTERS AND PLANTER MODULES TO RECEIVE GRAVEL MULCH IN LIEU OF HARDWOOD MULCH. GRAVEL TO BE TUSCANO ANTIQUE FROM ALAMO STONE (OR APPROVED EQUAL).

PLANT SIZING CHART

SHADE AND ORNAMENTAL SINGLE TRUNK TREES			
CONT. SIZE	CALIPER (DBH)	HEIGHT	SPREAD
10 GALLON	$\frac{3}{4}$"	6'MIN	3'-4'
15 GALLON	1"	8'-10'	4'-5'
30 GALLON	1-$\frac{1}{2}$" TO 2"	12'-14'	4'-5'
45 GALLON	2" TO 3"	14'-16'	5'-7'
65 GALLON	3" TO 3-$\frac{1}{2}$"	16'-18'	6'-8'
100 GALLON	3-$\frac{1}{2}$" TO 4"	18'-20'	8'-12'
PALMS			
CONT. SIZE	HEIGHT	BARE TRUNK	
10 GALLON	3'-4'		
15 GALLON	4'	1'	
30 GALLON	5' TO 6'	3'	
45 GALLON	6'-8'	4'	
65 GALLON	8'-10'	6'	
MULTI-TRUNK TREES			
CONT. SIZE	HEIGHT	SPREAD	
5 GALLON	4'	24"-36"	
7 GALLON	5'-6'	36"-48"	
10 GALLON	6'-7'	42"-60"	
15 GALLON	7'-8'	60"MIN	
45 GALLON	10'-12'	60"MIN	
65 GALLON	12'-16'	72"MIN	
100 GALLON	14'-18'	80"MIN	

DECIDUOUS SHRUBS			
CONT. SIZE	MIN. NUMBER OF CANES	HEIGHT	SPREAD
1 GALLON	3	6"MIN	6"MIN
3 GALLON	4	14"MIN	10"
5 GALLON	4	30"MIN	24"
7 GALLON	5	40"MIN	30"
10 GALLON	5	48"MIN	36"
15 GALLON	6	60"-72"	48"MIN
30 GALLON	8	96"MIN	48"-60"
BROADLEAF EVERGREEN SHRUBS			
CONT. SIZE	HEIGHT	SPREAD	
1 GALLON	6"-9"	6"MIN	
3 GALLON	14"MIN	10"	
5 GALLON	30"MIN	24"	
7 GALLON	40"MIN	24-30"	
10 GALLON	48"-60"	40"MIN	
15 GALLON	60"-72"	48"MIN	
30 GALLON	72"-84"	48"-60"	

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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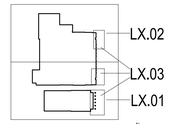

KEY PLAN

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12/05/2025

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

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PLANTING NOTES AND SCHEDULE

L4.00

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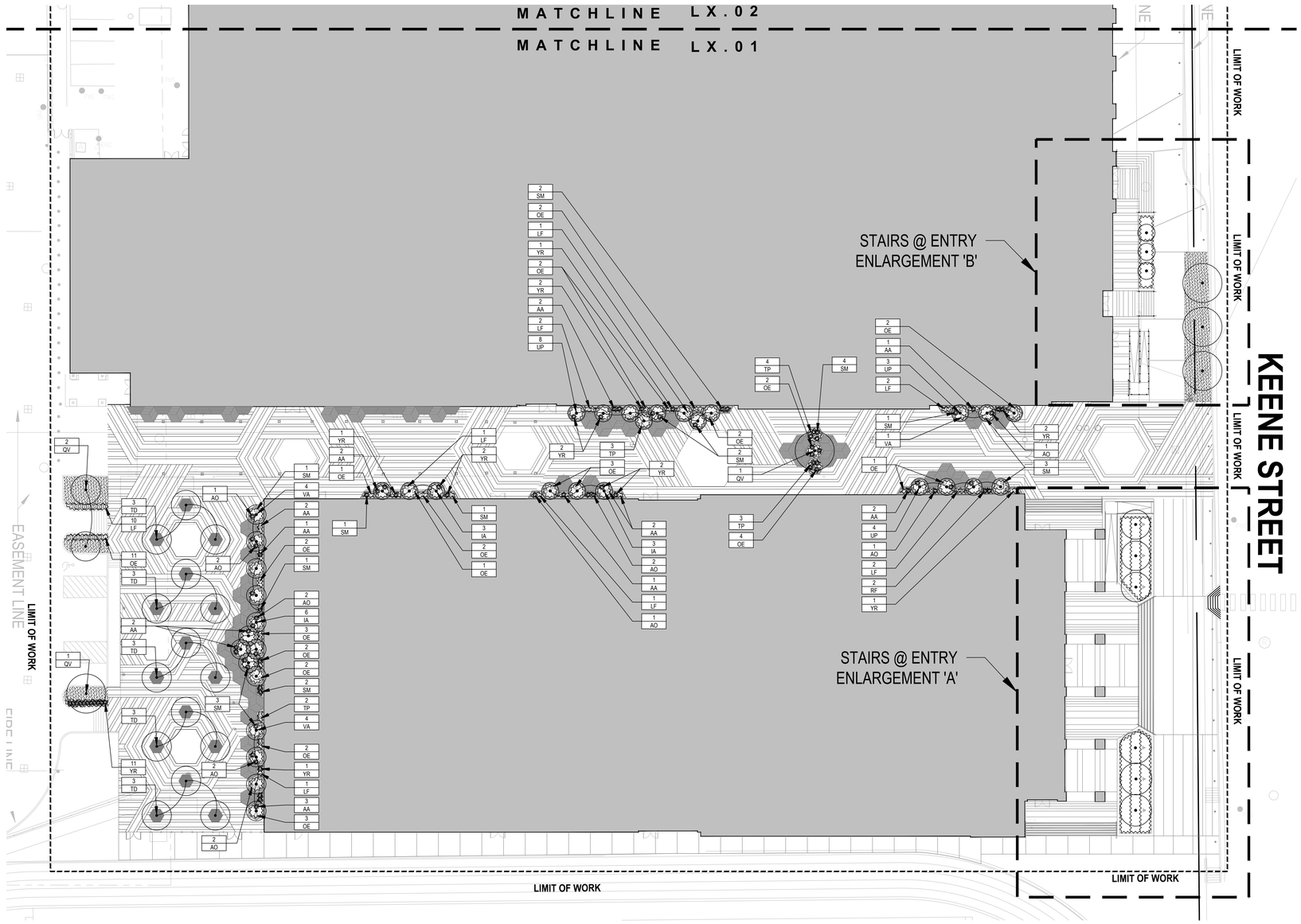
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

PLANTING LEGEND

- SOD
- TYP. PLANTING AREA
- PROPOSED SINGLE TRUNK TREE
- PROPOSED MULTI-TRUNK TREE



0 10' 20'
1" = 20'

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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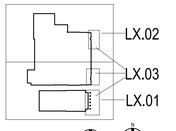

KEY PLAN

NORTH: PLAN TRUE

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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

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PLANTING PLAN

L4.01

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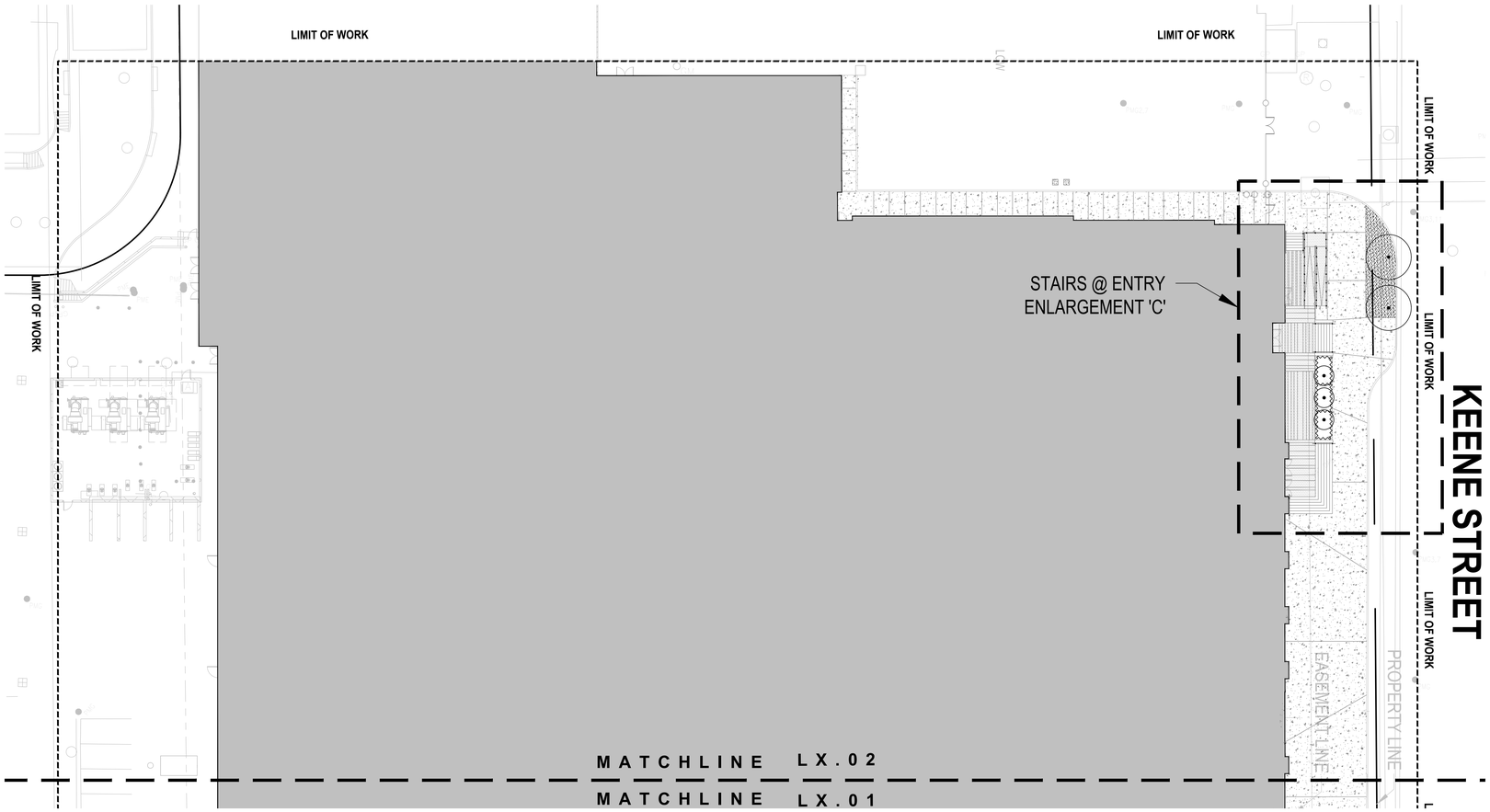
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

PLANTING LEGEND

- SOD
- TYP. PLANTING AREA
- PROPOSED SINGLE TRUNK TREE
- PROPOSED MULTI-TRUNK TREE



0 10' 20'
1" = 20'

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
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Galena Park ISD

LX.02
LX.03
LX.01

KEY PLAN
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REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALL
6072
STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
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PLANTING PLAN

L4.02

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WALL SECTIONS
A-621
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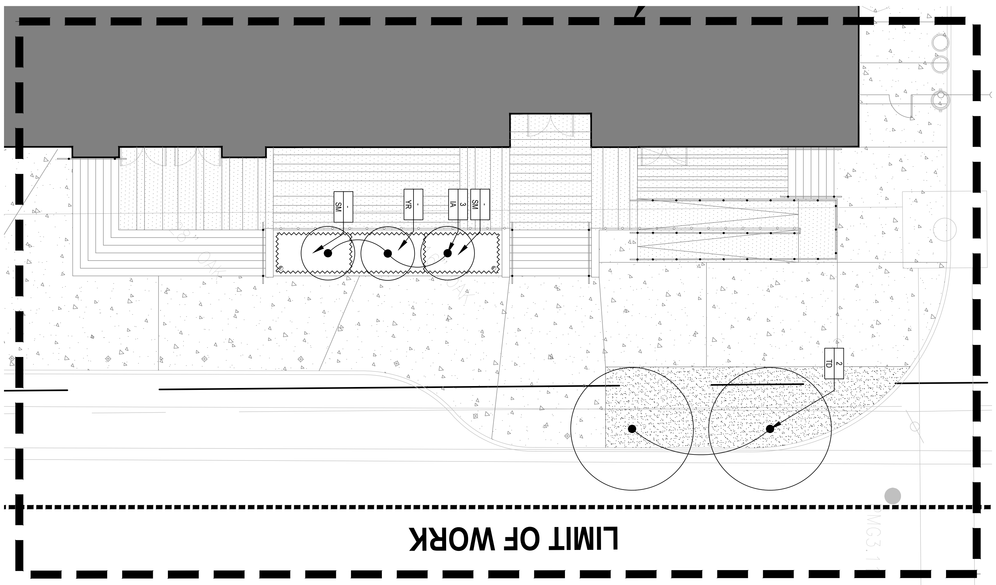
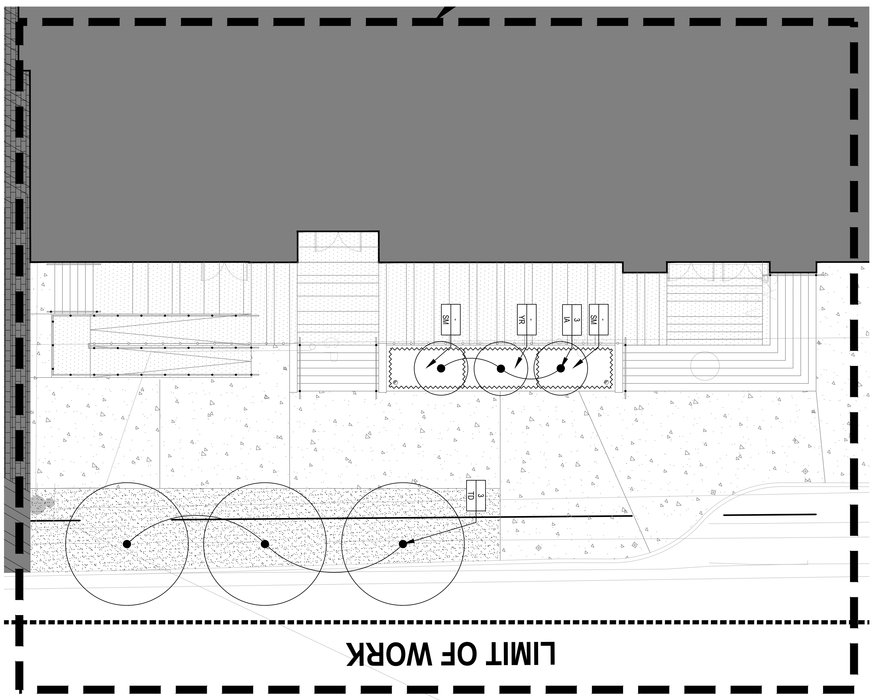
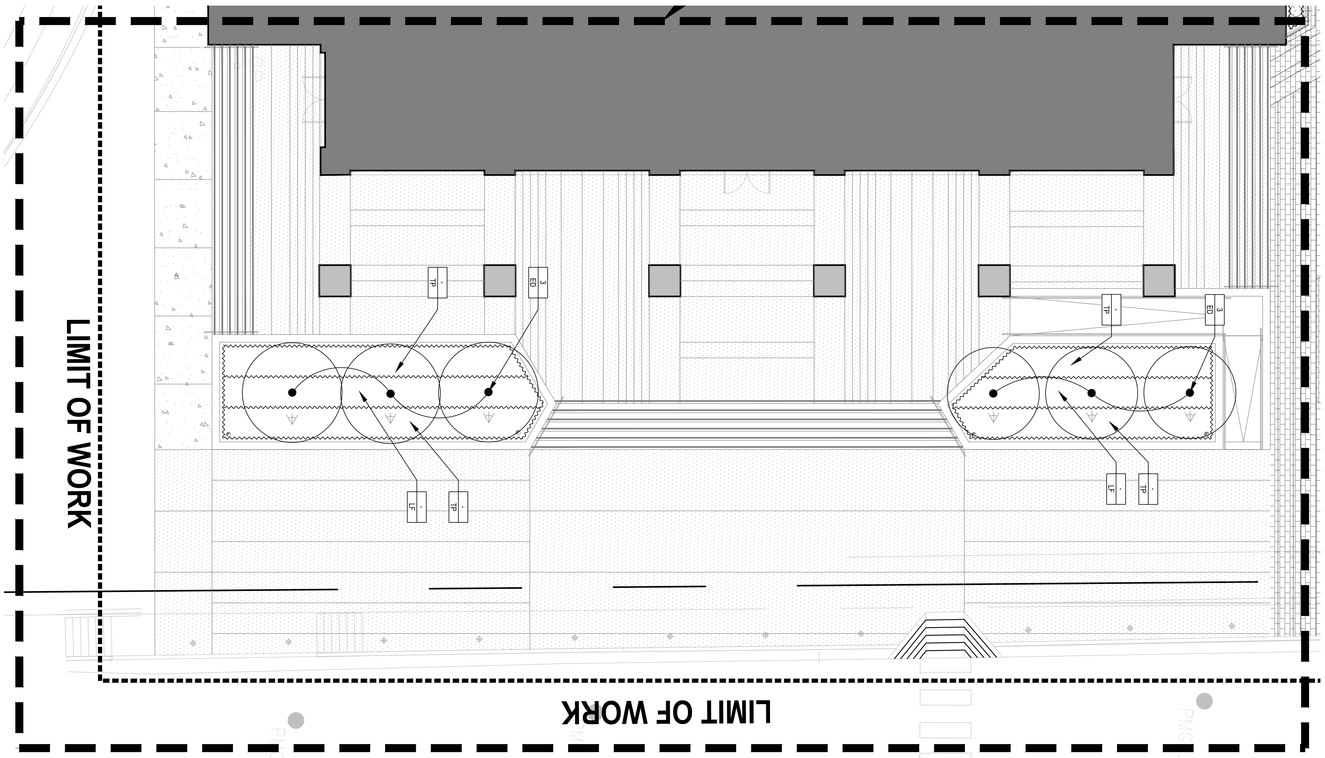


03 STAIRS @ ENTRY ENLARGEMENT 'C'
1/8" = 1'-0"



02 STAIRS @ ENTRY ENLARGEMENT 'B'
1/8" = 1'-0"



01 STAIRS @ ENTRY ENLARGEMENT 'A'
1/8" = 1'-0"

0 4' 8'
1/8" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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KEY PLAN
NORTH: PLAN
TRUE
LX.01 LX.03 LX.02

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PLANTING PLAN ENLARGEMENTS

L4.03

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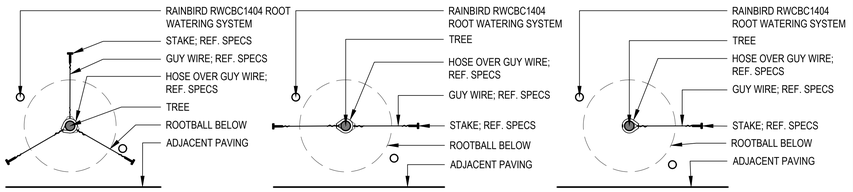
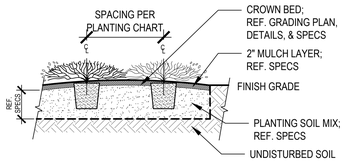
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

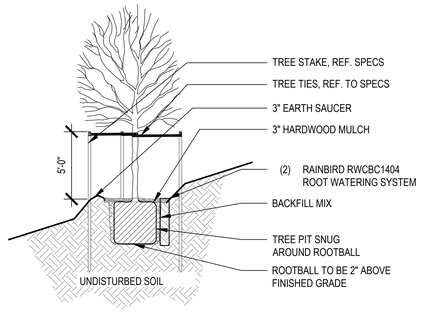




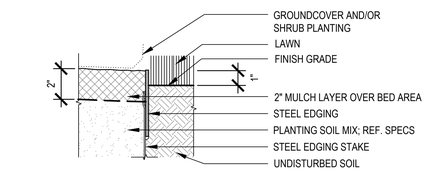
04 PLAN-TYP. TREE STAKING
3/4"=1'-0"



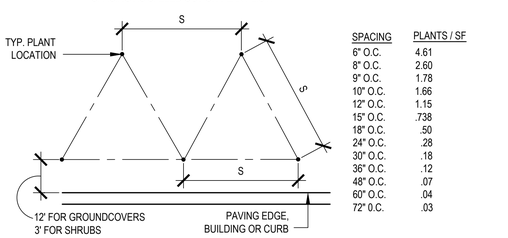
07 SECTION-TYP. BED PLANTING
1/2"=1'-0"



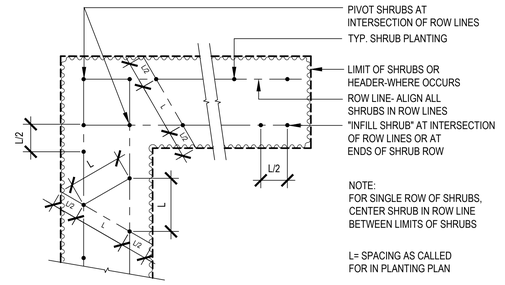
03 SECTION-TYP. TREE PLANTING ON SLOPE
1/2"=1'-0"



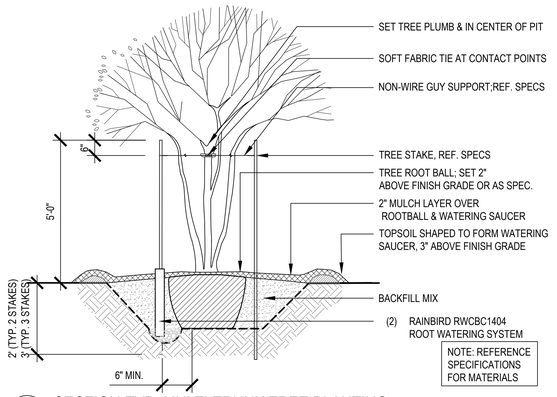
10 SECTION-METAL BED EDGE
3"=1'-0"



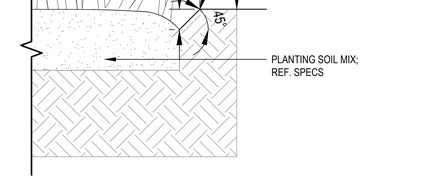
SPACING	PLANTS / SF
6" O.C.	4.61
8" O.C.	2.60
9" O.C.	1.78
10" O.C.	1.66
12" O.C.	1.15
15" O.C.	.738
18" O.C.	.50
24" O.C.	.28
30" O.C.	.18
36" O.C.	.12
48" O.C.	.07
60" O.C.	.04
72" 0.C.	.03



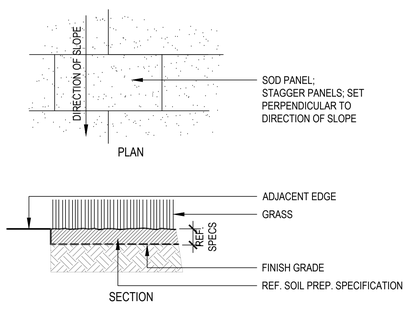
06 SECTION-PLANT SPACING
3"=1'-0"



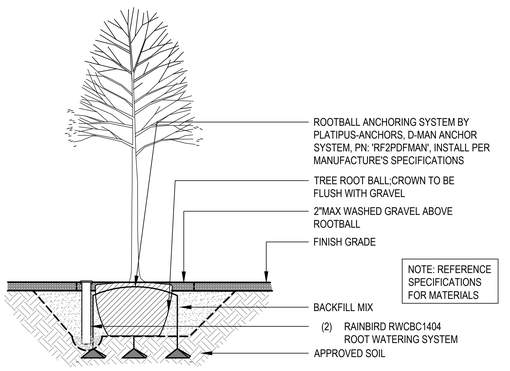
02 SECTION-TYP. MULTI-TRUNK TREE PLANTING
1/2"=1'-0"



09 SECTION-HAND CUT BED EDGE
1"=1'-0"



08 SECTION-TYP. SOD PLANTING
1/2"=1'-0"



05 SECTION-TYP. TREE PLANTING IN GRAVEL
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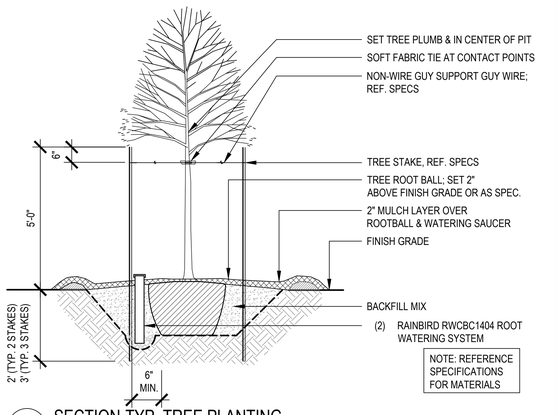

01 SECTION-TYP. TREE PLANTING
1/2"=1'-0"

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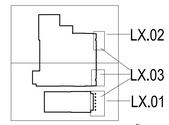
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

1000 Keene St.
Galena Park, TX 77547





KEY PLAN
NORTH: PLAN TRUE



12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: AT
DRAWN BY: AT

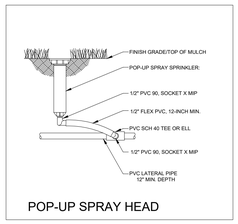
PLANTING DETAILS

L4.04

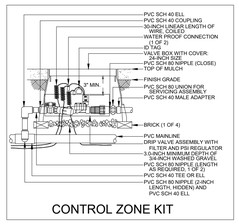
File Path: U:\Egeland\P_Project Drive\TEXAS\25_TX-Galena Park HS-240539\4 Construction Documents
Plot Stamp:
12/3/2025 8:00:46 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

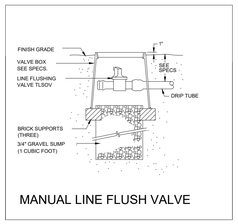
0"
1"



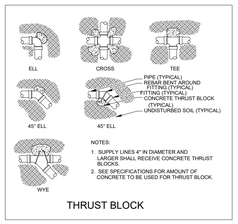
POP-UP SPRAY HEAD



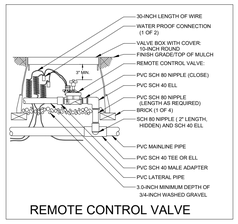
CONTROL ZONE KIT



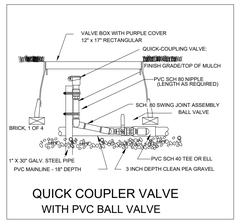
MANUAL LINE FLUSH VALVE



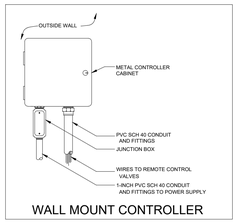
THRUST BLOCK



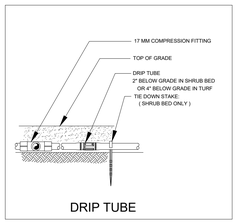
REMOTE CONTROL VALVE



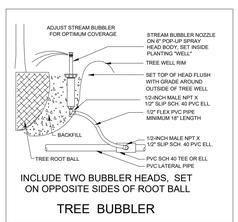
QUICK COUPLER VALVE
WITH PVC BALL VALVE



WALL MOUNT CONTROLLER

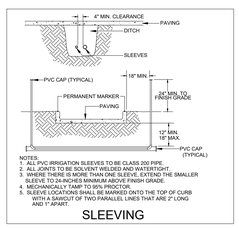


DRIP TUBE



INCLUDE TWO BUBBLER HEADS, SET ON OPPOSITE SIDES OF ROOT BALL

TREE BUBBLER



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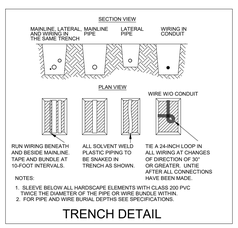
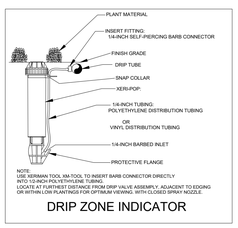
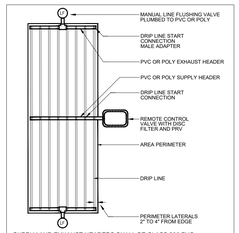


TRENCH DETAIL



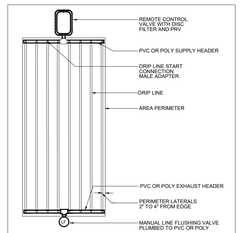
DRIP ZONE INDICATOR



SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE.

USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

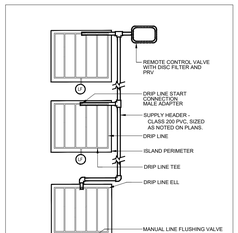
DRIP CENTER FEED LAYOUT



SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE.

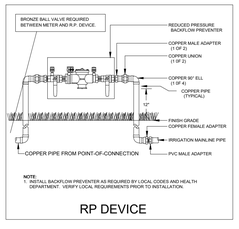
USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

DRIP END FEED LAYOUT

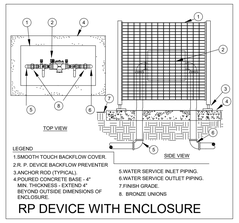


USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

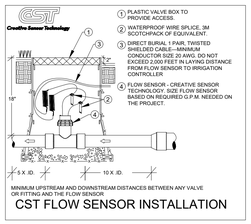
DRIP ISLAND LAYOUT



RP DEVICE

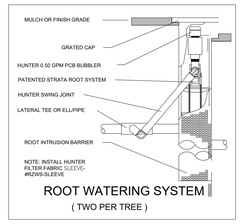


RP DEVICE WITH ENCLOSURE



MINIMUM UPSTREAM AND DOWNSTREAM DISTANCES BETWEEN ANY VALVE OR FITTING AND THE FLOW SENSOR.

CST FLOW SENSOR INSTALLATION



ROOT WATERING SYSTEM
(TWO PER TREE)

LATERAL PIPE SIZE CHART

LATERAL PIPE SHALL BE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF FIVE FEET PER SECOND ACCORDING TO THE FOLLOWING CHART:

FLOW IN GPM	LATERAL PIPE SIZE
UP TO 5 GPM	1/2" CLASS 315
6 - 10 GPM	3/4" CLASS 200
11 - 15 GPM	1" CLASS 200
16 - 28 GPM	1 1/4 CLASS 200
29 - 35 GPM	1 1/2" CLASS 200
36 - 54 GPM	2" CLASS 200
55 - 81 GPM	2 1/2" CLASS 200
82 - 120 GPM	3" CLASS 200

APPROX. ZONE RUN TIMES

APPROX. TOTAL RUN TIMES PER WEEK / PEAK WATERING WEEKS
TURF DRIP = 72 MINUTES PER WEEK
SHRUB DRIP = 60 MINUTES PER WEEK (LOW TO MEDIUM WATER USE)
TURF ROTORS / MP ROTATORS = 90 MINUTES PER WEEK
TURF SPRAYS = 45 MINUTES PER WEEK
SHRUB SPRAYS = 45 MINUTES PER WEEK
TREE BUBBLERS = 30 MINUTES PER WEEK
LONGER RUN TIMES SHALL BE REQUIRED DURING ESTABLISHMENT PERIOD
RUN TIMES MAY VERY BASED ON PLANT / TURF MATERIAL.

INSTALLATION NOTES

1. COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES, AND WILL SECURE ALL REQUIRED PERMITS. L.I.C. SHALL PAY ANY ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN AND SHALL BE ADDRESSED BEFORE ANY CONSTRUCTION BEGINS.
2. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.
3. CONFIRM MINIMUM STATIC WATER PRESSURE OF 65 PSI AT THE HIGHEST ELEVATION OF THE SYSTEM LIMITS, AND MAXIMUM STATIC WATER PRESSURE OF 90 P.S.I. AT THE LOWEST ELEVATION OF THE SYSTEM LIMITS AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS OUTSIDE THE RANGE STATED ABOVE, DO NOT PROCEED UNTIL DIRECTED BY THE LANDSCAPE ARCHITECT.
4. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN EXISTING TREE ROOT ZONES. WHEN HAND - TRENCHING WITHIN EXISTING TREE ROOT ZONES, NO ROOTS LARGER THAN 1" DIAMETER SHALL BE CUT.
5. IRRIGATION PLANS ARE DIAGRAMMATIC ONLY. IRRIGATION EQUIPMENT MAY BE SHOWN IN IMPERVIOUS SURFACES FOR GRAPHIC CLARITY PURPOSES. L.I.C. SHALL MAKE MINOR ADJUSTMENTS, AT NO ADDITIONAL COST TO THE OWNER, OF THE LOCATIONS OF THE IRRIGATION EQUIPMENT IN ORDER TO AVOID UTILITIES OR IMPERVIOUS SURFACES. R.F.I.S MAY BE SUBMITTED FOR APPROVAL OF CHANGES. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPED AREAS.
6. ELECTRIC POWER SHALL BE PROVIDED WITHIN FIVE FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR. L.I.C. TO PROVIDE FINAL HARD-WIRE TO CONTROLLER.
7. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". WIRE SPLICES SHALL INCLUDE DBY CONNECTORS AS MANUFACTURED BY 3M COMPANY. ALL FIELD SPLICES SHALL BE LOCATED IN A ROUND VALVE BOX OF SUFFICIENT SIZE TO ALLOW INSPECTION.
8. VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH 3 INCHES OF CLEAN PEA GRAVEL LOCATED BELOW THE VALVE. USE 12" x 17" RECTANGULAR VALVE BOXES WITH PURPLE LID FOR QUICK COUPLING VALVES, AND 10" ROUND BOXES FOR ELECTRIC VALVES UNLESS NOTED OTHERWISE.
9. USE RIGID SCH. 80 PVC SWING JOINT ASSEMBLIES TO CONNECT ALL ROTARY HEADS AND QUICK COUPLERS.
10. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12" MINIMUM LENGTH OF 1/2" FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER.
11. PROVIDE ONE QUICK COUPLER KEY WITH SWIVEL HOSE ELL FOR EVERY SIX Q.C. VALVES. (MINIMUM ONE SET).
12. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
13. LATERAL PIPE TO TREE STREAM BUBBLER HEADS IS OMITTED FOR GRAPHIC CLARITY. CONNECT TREE BUBBLER HEADS TO VALVES AS SHOWN WITH CLASS 200 PVC PIPE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND
14. THE PROPOSED LOCATIONS OF ALL ABOVE- GROUND EQUIPMENT INCLUDING BACKFLOW PREVENTORS, CONTROLLERS AND WEATHER SENSORS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THESE ITEMS ARE INSTALLED.
15. ALL HEADS SHALL BE INSTALLED A MINIMUM OF 4" FROM PAVEMENT EDGES. (6" OR GREATER WHERE REQUIRED BY LOCAL CODE) FINAL HEAD ADJUSTMENTS BY THE CONTRACTOR SHALL INCLUDE THE ADDITION OF CHECK VALVES WHERE NEEDED TO PREVENT EXCESSIVE LOW HEAD DRAINAGE. THE CONTRACTOR SHALL BUDGET FOR, AND INSTALL CHECK VALVES FOR UP 10 % OF THE TOTAL NUMBER OF HEADS WHEN NEEDED, WITH NO ADDITIONAL COST TO THE OWNER.
16. WHERE SHOWN ON THE PLANS, MASS SHRUB / GROUNDCOVER BEDS SHALL INCLUDE NETAFIM TECHLINE TLHCVXR SERIES DRIP TUBE WITH PRE-INSTALLED .53 GPH DRIP EMITTERS AT 12" INTERVALS (TLHCVXR5-12), INSTALLED IN CENTER-FED GRIDS WITH ROWS SPACED 18" APART. INDIVIDUAL DRIP TUBE RUNS SHALL NOT EXCEED 150 L.F. PVC LATERAL "TRUNK" LINES SHALL BE INSTALLED 10" DEEP. DRIP TUBE SHALL BE SET 2" BELOW FINISHED SOIL GRADE (NOT INCLUDING MULCH LAYER), SECURELY STAKED EVERY 18". NETAFIM #TLOSOMFV-1 FLUSH VALVES SHALL BE INSTALLED AT THE FARTHEST POINTS FROM THE ZONE VALVE. USE 17 MM BARBED FITTINGS FOR DRIP LINE CONNECTIONS, SET THE MAXIMUM OPERATING PRESSURE AT 50 PSI. TECHLINE CV SHALL BE INSTALLED PERPENDICULAR TO SLOPE FACE. INSTALL TLCV IN-LINE CHECK VALVES FOR EVERY 4.5 FEET OF DRIP LINE ELEVATION CHANGE WITHIN THE ZONE. USE NETAFIM STAPLES (#TLS6) TO SECURE TUBING EVERY 18" EACH DRIP ZONE SHALL INCLUDE ONE MAINTENANCE "FLAG" WHICH SHALL CONSIST OF A 12" POP-UP SPRAY HEAD AND COMPLETELY CLOSED SPRAY NOZZLE. THE POP-UP HEAD SHALL BE CONNECTED TO THE DRIP ZONE PIPE, SET FLUSH WITH GRADE, AND LOCATED AT THE FARTHEST DISTANCE FROM THE DRIP VALVE ASSEMBLY. INSTALL THE "FLAG" HEAD ADJACENT TO EDGING OR IN LOW PLANTINGS FOR EASE OF VIEWING. SPARSLEY SPACED, INDIVIDUAL SHRUB PLANTINGS MAY INCLUDE RAIN BIRD #XBT-10 SINGLE-OUTLET EMITTERS OR RAIN BIRD #XBT-10-6 MULTI-OUTLET EMITTERS INSTALLED AS DETAILED. PROVIDE MINIMUM TWO, 1 G.P.H. OUTLETS PER INDIVIDUAL SHRUB. SINGLE / MULTI-OUTLET EMITTERS MAY BE CONNECTED TO THE SAME DRIP ZONE VALVE WHICH SERVES ADJACENT DRIP TUBE GRIDS, UNLESS NOTED OTHERWISE.

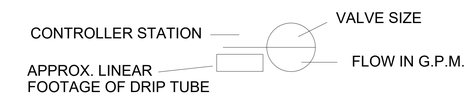
IRRIGATION LEGEND

- ☑ HUNTER RZWS ROOT WATERING SYSTEM MODEL RZWS-10-50-CV WITH RZWS-SLEEVE. (TWO PER TREE) SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- □ HUNTER PROS-06-PRS30 SERIES POP UP SPRAY HEADS WITH HUNTER MSBN-50H STREAM BUBBLER NOZZLES. (TWO PER TREE) SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- • HUNTER PROS-04-PRS30 SERIES POP UP SPRAY HEAD WITH PRO SPRAY SERIES NOZZLE AS NOTED BELOW
- NETAFIM TECHLINE TLHCVXR5-12 SERIES DRIP TUBE IN SHRUB BED INSTALLED AT 2" DEPTH SEE INSTALLATION NOTE #16 REGARDING DRIP TUBE LAYOUT IN SHRUB BEDS.
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH ICD-100 SERIES DECODER
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL. "TREE BUBBLER ZONE" VALVE WITH ICD-100 SERIES DECODER SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- NETAFIM CONTROL ZONE KIT MODEL #NCZ-1S SERIES WITH 50 PSI PRESSURE REGULATOR AND SCREEN FILTER WITH ICD-100 SERIES DECODER
- ▲ HUNTER HQ-33DLRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- ZURN / WILKINS 375XLB SERIES REDUCED PRESSURE TYPE BACKFLOW PREVENTOR INSTALLED PER CITY CODE WITH SAME SIZE BRONZE BALL VALVE INSTALLED ON THE UP-STREAM SIDE.
- ISOLATION VALVE WHERE MAINLINE IS 3" OR SMALLER, INSTALL LASCO "V" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE WHERE MAINLINE IS 4" OR LARGER, INSTALL CAST IRON PUSH-ON TYPE GATE VALVE WITH GASKET FITTINGS, MAINLINE SIZE
- ○ IRRIGATION WATER METER AND TAP, SIZE AS NOTED ON THE PLAN
- HUNTER ACC2 DECODER SERIES TWO-WIRE CONTROLLER MODEL A2C-75D-M WITH TWO A2C-D75 MODULES AND WIRELESS SOLAR SYNC SENSOR LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT SURGE PROTECTION DEVICE WITH GROUNDING DEVICE TO BE SPACED NO MORE THAN 500 FEET APART ALONG PATH
- ■ "MASTER" ELECTRIC VALVE WITH ICD-100 SERIES DECODER AND CST SERIES FLOW SENSOR, MODEL #FSI-T20-001 WITH #ICD-SEN SERIES SENSOR DECODER.
- □ USE 12X18 MINIMUM OLD CASTLE DURALITE OR POLYMER VALVE BOX WITH TRAFFIC RATED LID SET FLUSH WITH PAVERS FOR MAINLINE TRANSITIONS

- MAINLINE PIPE (POLY PIPE) 2" POLY PIPE
- MAINLINE PIPE 3" DIAMETER AND SMALLER SHALL BE SCHEDULE 40 PVC SOLVENT-WELD TYPE 4" DIAMETER AND LARGER SHALL BE CLASS 200 PVC O-RING GASKET TYPE WITH DUCTILE IRON GASKET FITTINGS
- CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE ALL LATERAL PIPE EXTENDING THROUGH PVC CONDUIT FOR PLANTER POTS SHALL BE POLYPIPE
- ONE 4" CLASS 200 SLEEVE PIPE
- TWO 4" CLASS 200 SLEEVE PIPES
- ONE 6" AND ONE 4" CLASS 200 SLEEVE PIPE AT PAVEMENT CROSSINGS WITH 3" MAINLINE UNLESS NOTED OTHERWISE ONE 8" AND ONE 4" CLASS 200 SLEEVE PIPE AT PAVEMENT CROSSINGS WITH 4" MAINLINE UNLESS NOTED OTHERWISE
- 2" PVC CONDUIT WITH LONG RADIUS SWEEP FITTINGS

IRRIGATION NOTES:

- L.I.C. SHALL SELECT SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.
- ALL VALVES SHALL INCLUDE ICD-100 SERIES DECODERS



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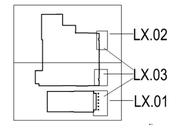
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL





KEY PLAN
NORTH: PLAN TRUE



12 / 03 / 2025

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: AM
DRAWN BY: CD

IRRIGATION NOTES AND DETAILS

L5.00

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"

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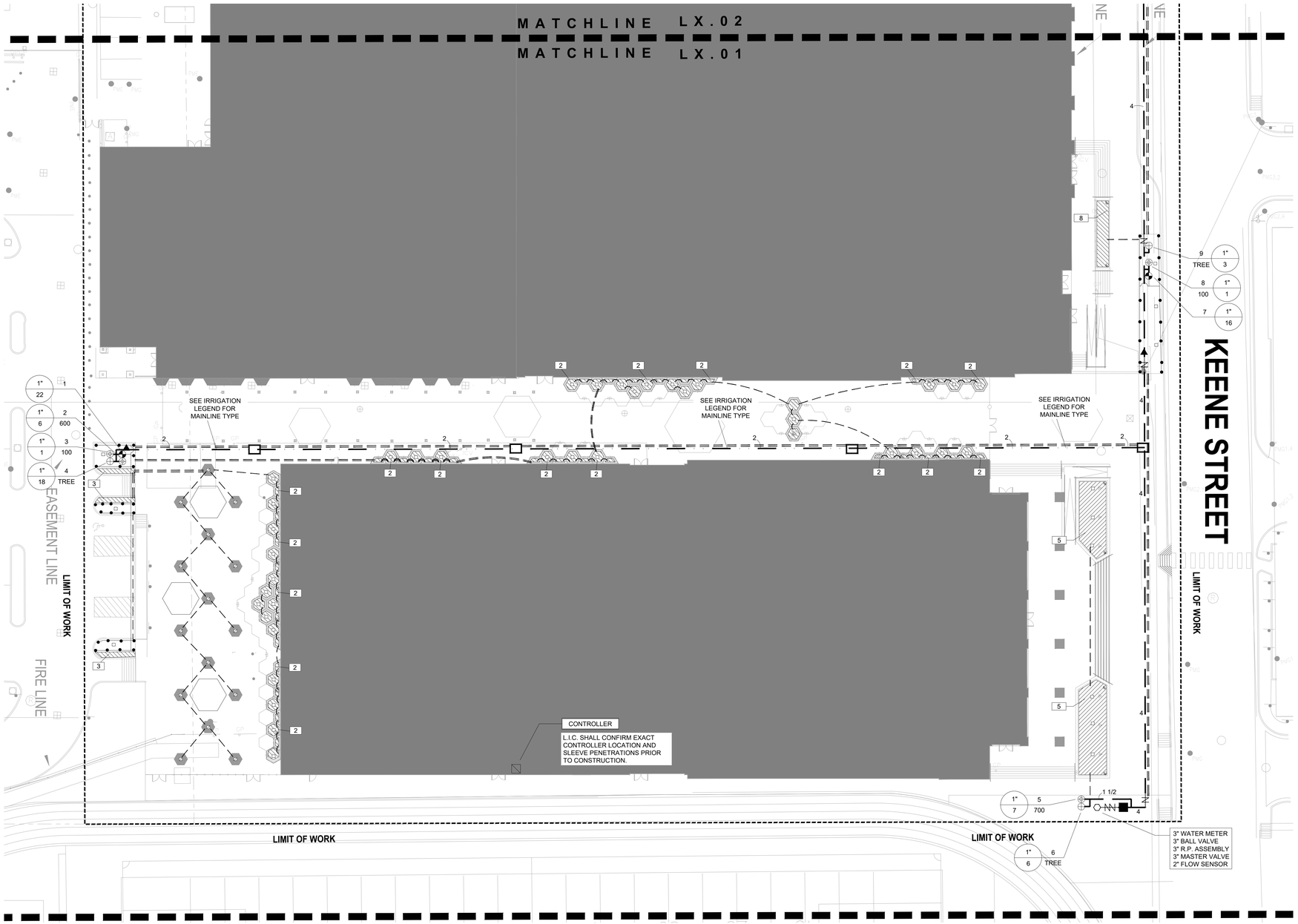

0 10' 20'
1" = 20'

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
LX.02
LX.03
LX.01
NORTH: PLAN TRUE

12 / 03 / 2025

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

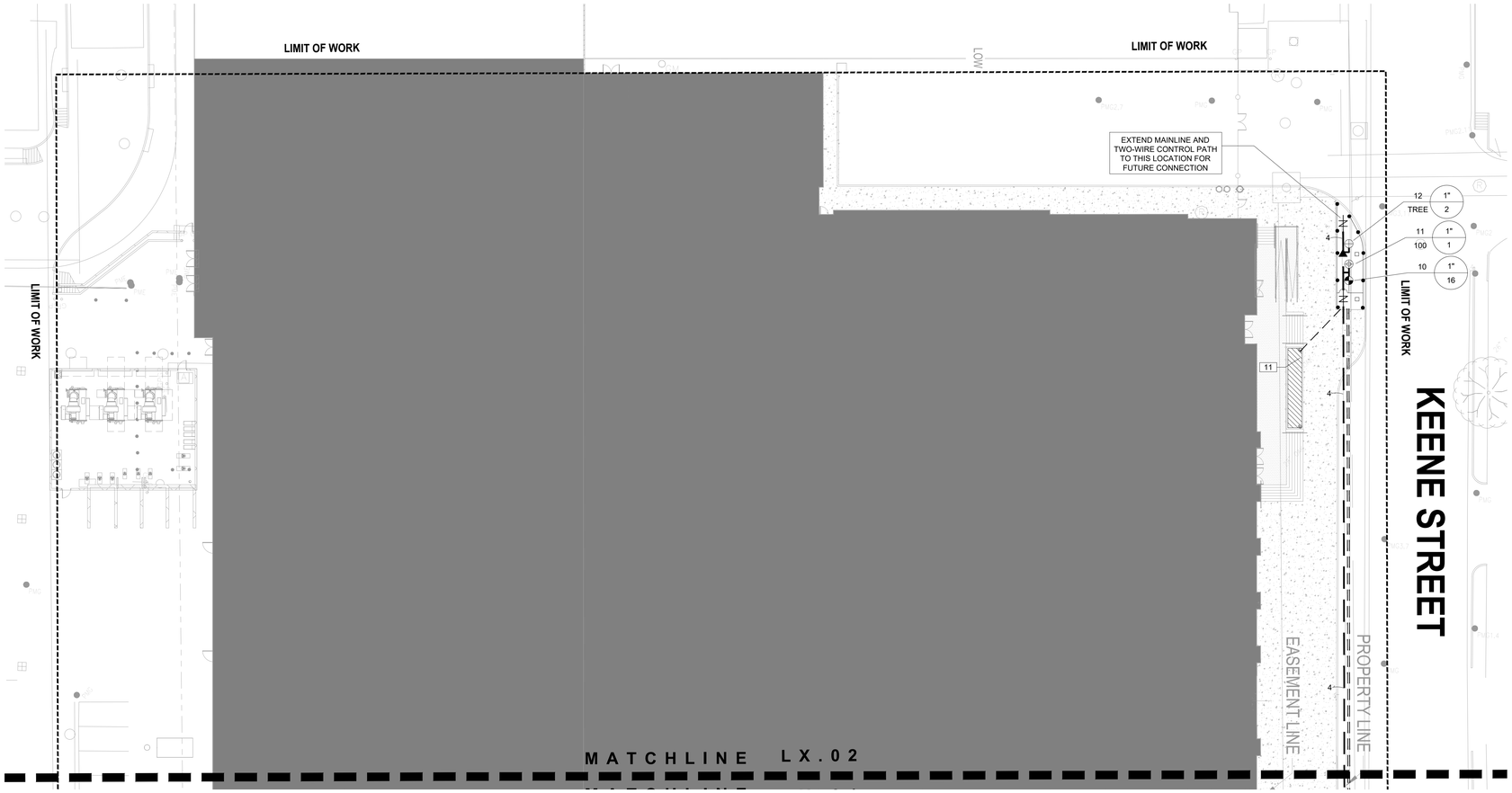
CHECKED BY: AM
DRAWN BY: CD

IRRIGATION PLAN

L5.01

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"



0 10' 20'
1" = 20'

James Pole
IRRIGATION CONSULTANTS
IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT
TEXAS L.I.C. #658
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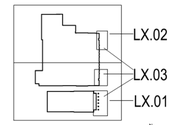
ISSUE FOR PROPOSAL







12 / 03 / 2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: AM
DRAWN BY: CD

IRRIGATION PLAN

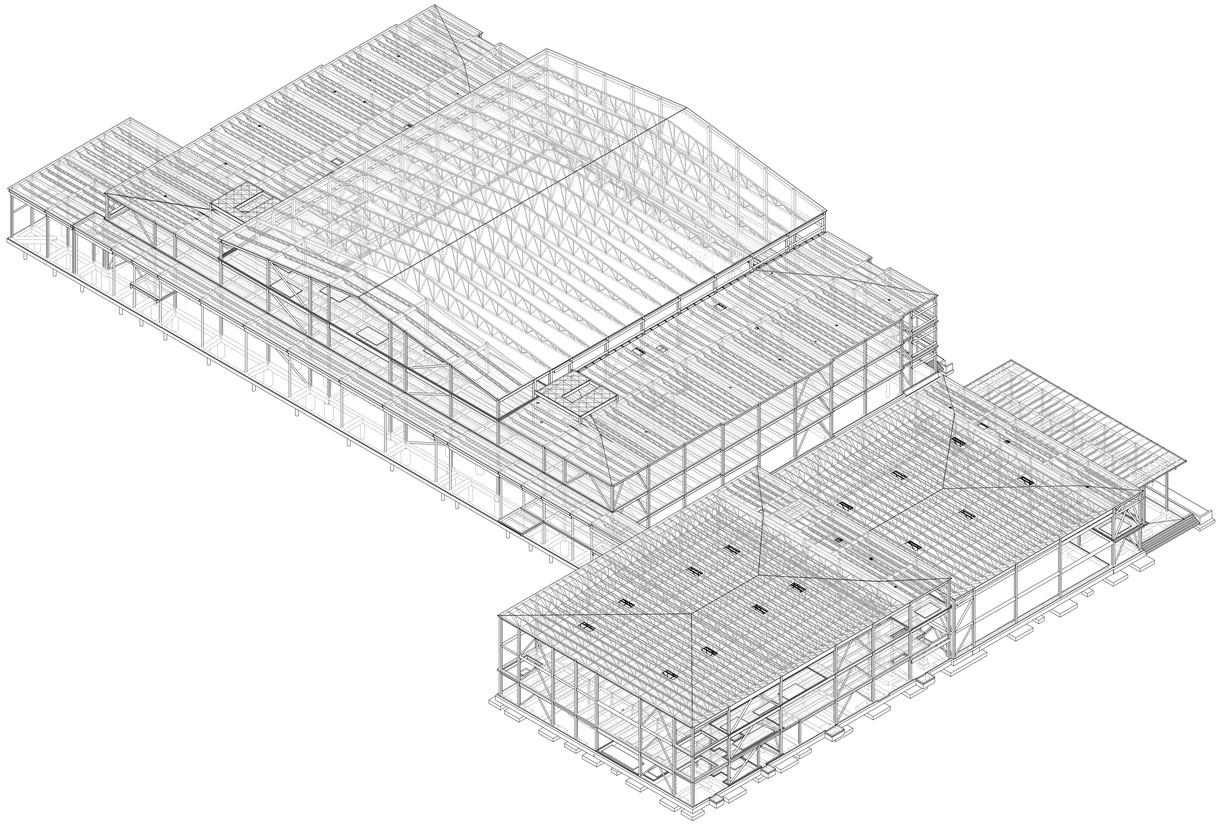
L5.02

3D VIEW & SHEET LIST
S-000
FOR BLUEBEAM LABEL:INDOOR:

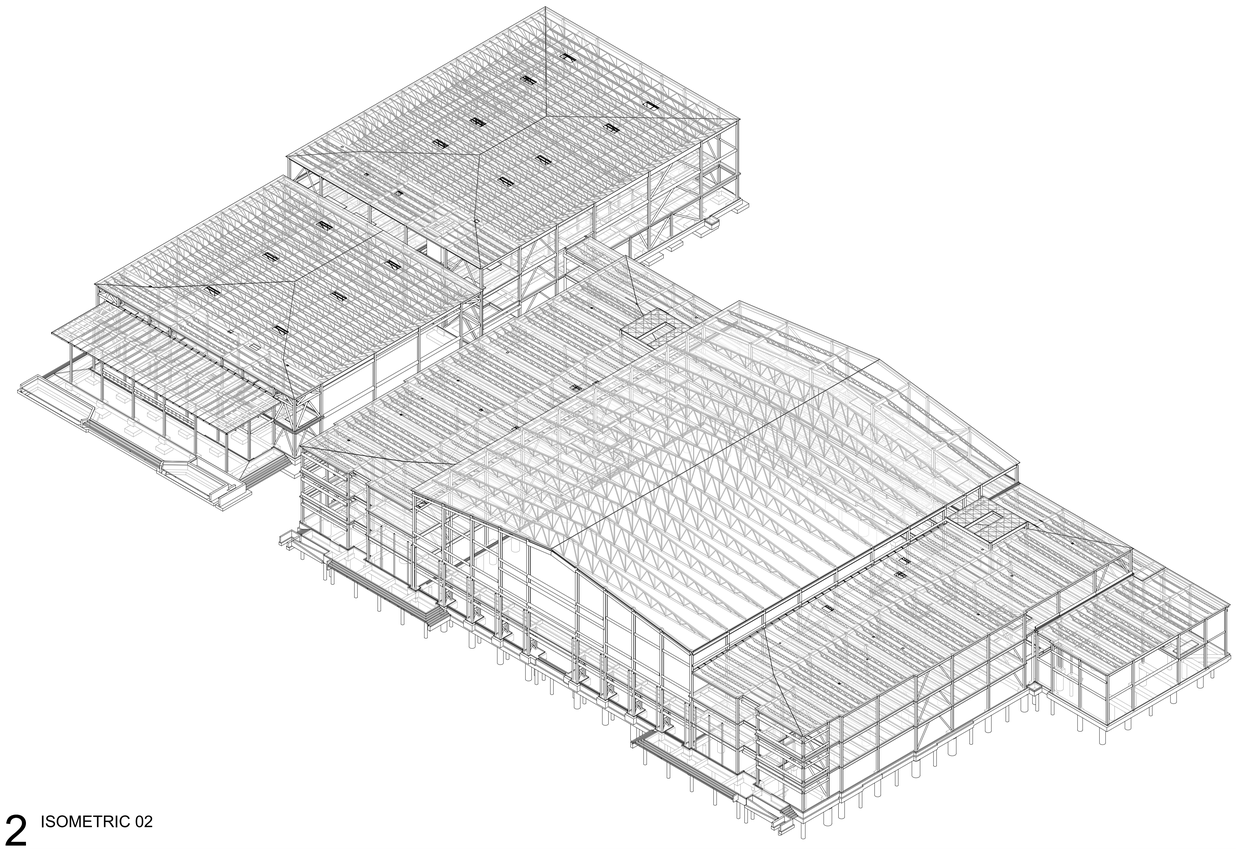
0"
1"

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S-000	3D VIEW & SHEET LIST
S-010	GENERAL NOTES
S-011	GENERAL NOTES
S-012	GENERAL NOTES
S-013	GENERAL SUBGRADE NOTES AND TYP DETAILS
SD-101	COMPOSITE DEMO PLAN
SD-101A	FOUNDATION DEMO PLAN - AREA A
SD-101B	FOUNDATION DEMO PLAN - AREA B
SD-101D	FOUNDATION DEMO PLAN - AREA D
SD-101F	FOUNDATION DEMO PLAN - AREA F
SD-101M	FOUNDATION DEMO PLAN - EXISTING MECH YARD
SD-102D	SECOND FLOOR DEMO PLAN - AREA D
SD-102F	SECOND FLOOR DEMO PLAN - AREA F
SD-102M	SECOND FLOOR DEMO PLAN - EXISTING MECH YARD
S-101	COMPOSITE FOUNDATION PLAN
S-101A	FOUNDATION PLAN - AREA A
S-101B	FOUNDATION PLAN - AREA B
S-101C	FOUNDATION PLAN - AREA C
S-101D	FOUNDATION PLAN - AREA D
S-101E	FOUNDATION PLAN - AREA E
S-101F	FOUNDATION PLAN - AREA F
S-101G	FOUNDATION PLAN - AREA G
S-101M	FOUNDATION PLAN - MISC
S-102	COMPOSITE SECOND FLOOR FRAMING PLAN
S-102A	SECOND FLOOR FRAMING PLAN - AREA A
S-102B	SECOND FLOOR FRAMING PLAN - AREA B
S-102C	SECOND FLOOR FRAMING PLAN - AREA C
S-102D	SECOND FLOOR FRAMING PLAN - AREA D
S-102E	SECOND FLOOR FRAMING PLAN - AREA E
S-102F	SECOND FLOOR FRAMING PLAN - AREA F
S-103	COMPOSITE THIRD FLOOR FRAMING PLAN
S-103A	THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A
S-103B	THIRD FLOOR FRAMING PLAN - AREA B
S-103C	THIRD FLOOR FRAMING PLAN - AREA C
S-103D	THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
S-103E	THIRD FLOOR FRAMING PLAN - AREA E
S-103F	THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F
S-104	COMPOSITE LOW ROOF FRAMING PLAN
S-104A	GYM LOW ROOF FRAMING PLAN - AREA A
S-104C	CLASSROOM LOW ROOF FRAMING PLAN - AREA C
S-104D	CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D
S-104E	CLASSROOM LOW ROOF FRAMING PLAN - AREA E
S-104F	CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F
S-104M	MISC FRAMING PLANS
S-105	COMPOSITE HIGH ROOF FRAMING PLAN
S-105B	GYM HIGH ROOF FRAMING PLAN - AREA B
S-105G	CLASSROOM HIGH ROOF FRAMING PLAN - AREA G
S-300	GENERAL CONCRETE AND STL REINF NOTES AND TYP DETAILS
S-301	GENERAL SLAB-ON-GRADE NOTES AND TYP DETAILS
S-302	GENERAL GRADE BEAM NOTES AND TYP DETAILS
S-302A	GENERAL GRADE BEAM NOTES AND TYP DETAILS
S-303	GENERAL FOUNDATION NOTES AND TYP DETAILS
S-303SF	GENERAL FOUNDATION NOTES AND TYP DETAILS
S-304	GENERAL FOUNDATION NOTES AND TYP DETAILS
S-305	GENERAL EXISTING FOUNDATION NOTES AND TYP DETAILS
S-310	FOUNDATION DETAILS
S-311	FOUNDATION DETAILS
S-312	FOUNDATION DETAILS
S-313	FOUNDATION DETAILS (CMU)
S-314	FOUNDATION DETAILS (CMU)
S-315	FOUNDATION DETAILS (CMU)
S-316	ELEVATOR PIT DETAILS
S-320	SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-321	SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-400	GENERAL CMU NOTES AND TYP DETAILS
S-401	GENERAL CMU NOTES AND TYP DETAILS
S-402	MISC CMU DETAILS
S-403	MISC CMU DETAILS
S-500	GENERAL STEEL NOTES AND TYP DETAILS
S-501	GENERAL STEEL NOTES AND TYP DETAILS
S-502	GENERAL STEEL NOTES AND TYP DETAILS
S-503	GENERAL STEEL CONNECTION NOTES AND TYP DETAILS
S-504	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS
S-505	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS
S-506	TYPICAL STEEL DECK DETAILS
S-507	GENERAL STEEL NOTES AND TYP DETAILS
S-508	GENERAL STEEL NOTES AND TYP DETAILS
S-509	GENERAL STEEL NOTES AND TYP DETAILS
S-510	COMPOSITE FRAMING DETAILS
S-511	COMPOSITE FRAMING DETAILS
S-512	COMPOSITE FRAMING DETAILS
S-513	COMPOSITE FRAMING DETAILS
S-514	COMPOSITE FRAMING DETAILS
S-520	ROOF FRAMING DETAILS
S-521	ROOF FRAMING DETAILS
S-522	ROOF FRAMING DETAILS
S-523	ROOF FRAMING DETAILS
S-524	ROOF FRAMING DETAILS
S-525	ROOF FRAMING DETAILS
S-526	ROOF FRAMING DETAILS
S-530	BUILDING SECTIONS
S-531	BUILDING SECTIONS
S-532	BUILDING SECTIONS
S-533	BUILDING ELEVATION
S-600	TYPICAL WIND BRACING ELEVATIONS - AREA A
S-601	TYPICAL WIND BRACING ELEVATIONS - AREA B
S-602	TYPICAL WIND BRACING ELEVATIONS - AREA B
S-603	TYPICAL WIND BRACING ELEVATIONS - AREA C
S-604	TYPICAL WIND BRACING ELEVATIONS - AREA D
S-605	TYPICAL WIND BRACING ELEVATIONS - AREA E
S-606	TYPICAL WIND BRACING ELEVATIONS - AREA F
S-607	TYPICAL WIND BRACING ELEVATIONS - AREA G
S-610	TYPICAL WIND BRACING DETAILS
S-700	TYPICAL LADDER DETAILS



1 ISOMETRIC 01



2 ISOMETRIC 02

NOTE:
3D IMAGES PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND DO NOT SUPERCEDE INFORMATION SHOWN IN 2D PLANS AND DETAILS. PERSPECTIVE VIEWS ARE PROVIDED FOR A GENERAL UNDERSTANDING OF THE OVERALL STRUCTURAL FRAME. NOT ALL STRUCTURAL ELEMENTS ARE NECESSARILY SHOWN. THESE VIEWS SHOULD NOT BE USED FOR BIDDING, DETAILING OR ERECTION.

Plot Stamp:
12/5/2025 11:50:11 AM

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ISSUE FOR PROPOSAL

Kubala ENGINEERS
Phone: (832) 968-8974
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TX: REG. NO. F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

3D VIEW & SHEET LIST

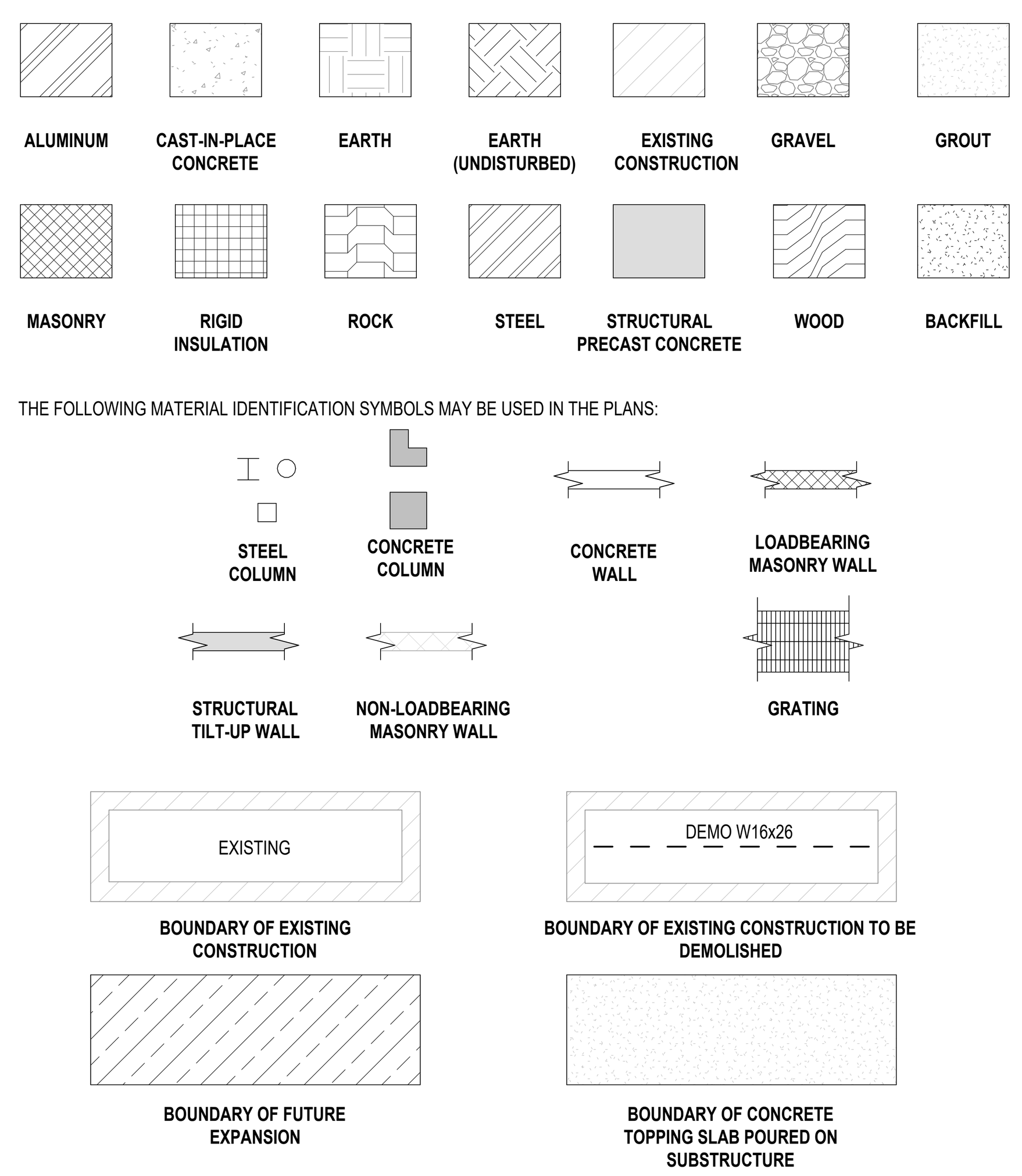
S-000

GENERAL NOTES
S-010
FOR BLUEBEAM LABELING/OCR:

MATERIAL IDENTIFICATION SYMBOLS

THE FOLLOWING MATERIAL IDENTIFICATION SYMBOLS MAY BE USED IN THE SECTIONS AND DETAILS:

THE FOLLOWING MATERIAL IDENTIFICATION SYMBOLS MAY BE USED IN THE PLANS:



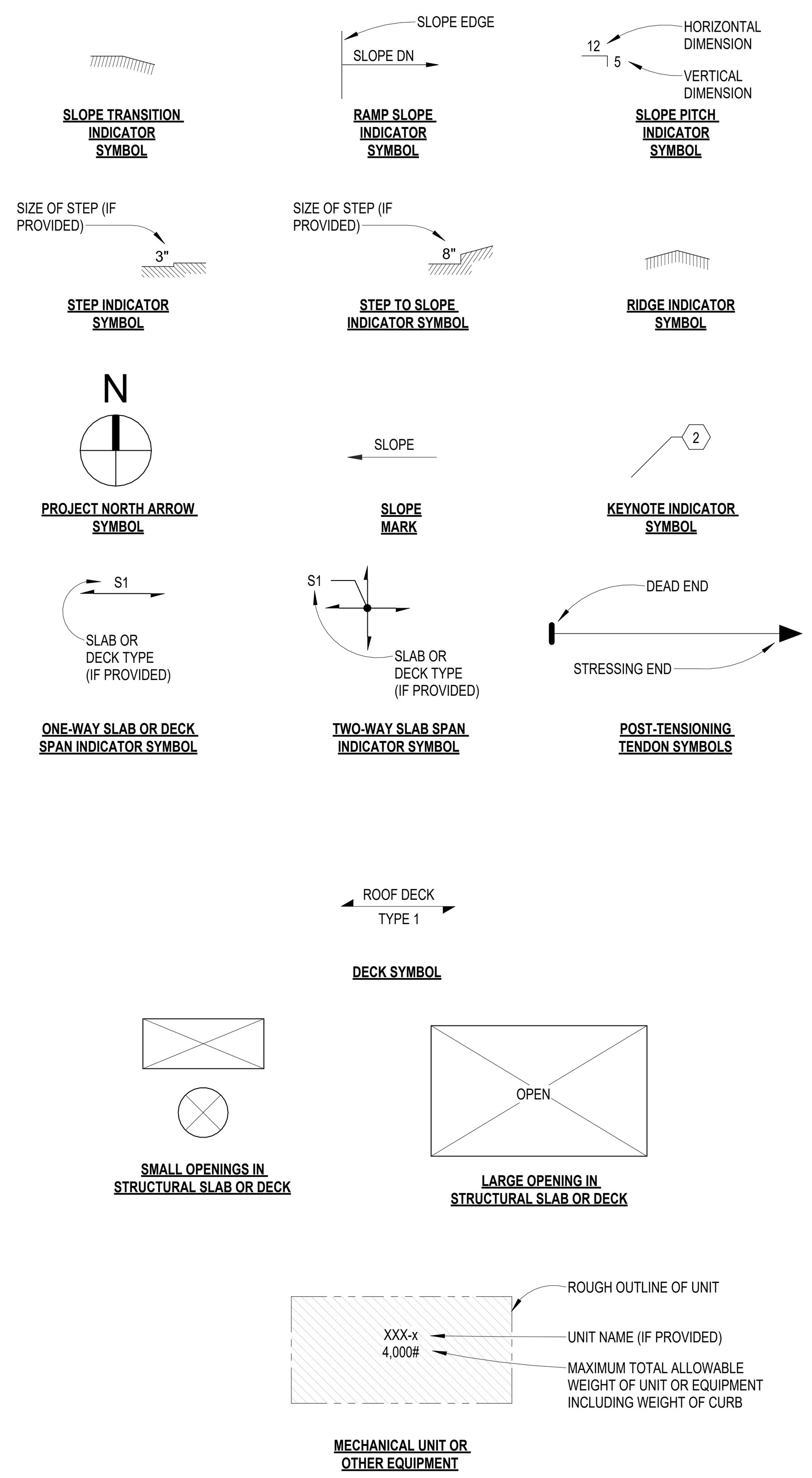
SYMBOLIC LINEWORK

THE FOLLOWING SYMBOLIC LINEWORK MAY BE USED THROUGHOUT THE DRAWINGS:

- REFERENCE GRID LINE SYMBOL
- CENTERLINE SYMBOL
- PLAN MATCHLINE SYMBOL
- NON-STRUCTURAL LINE SYMBOL
- WELDED WIRE REINFORCEMENT SYMBOL
- STEEL JOIST LINE SYMBOL
- OPENING LINE SYMBOL
- PIPING RUN

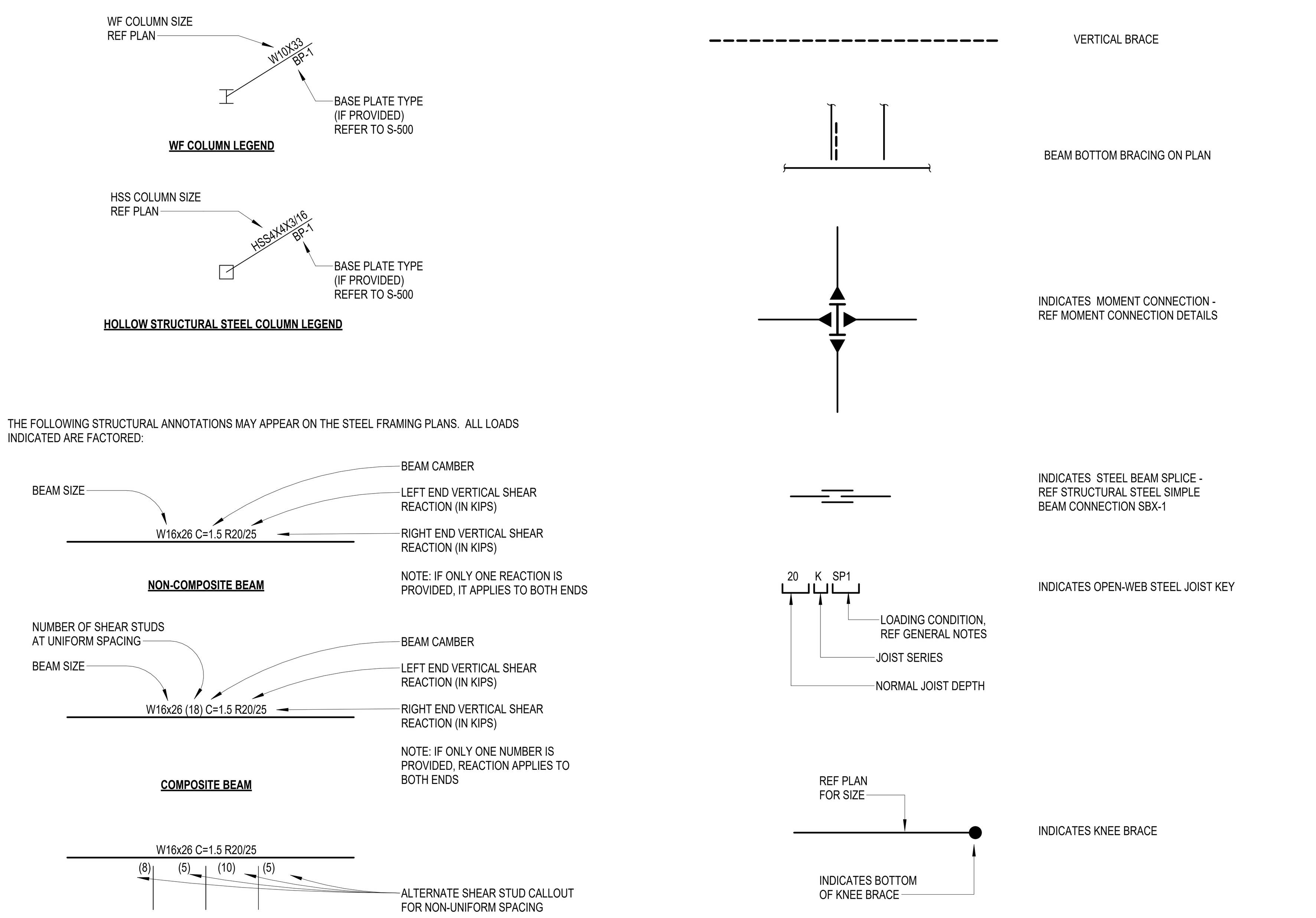
PLAN SYMBOLS

THE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE PLANS:



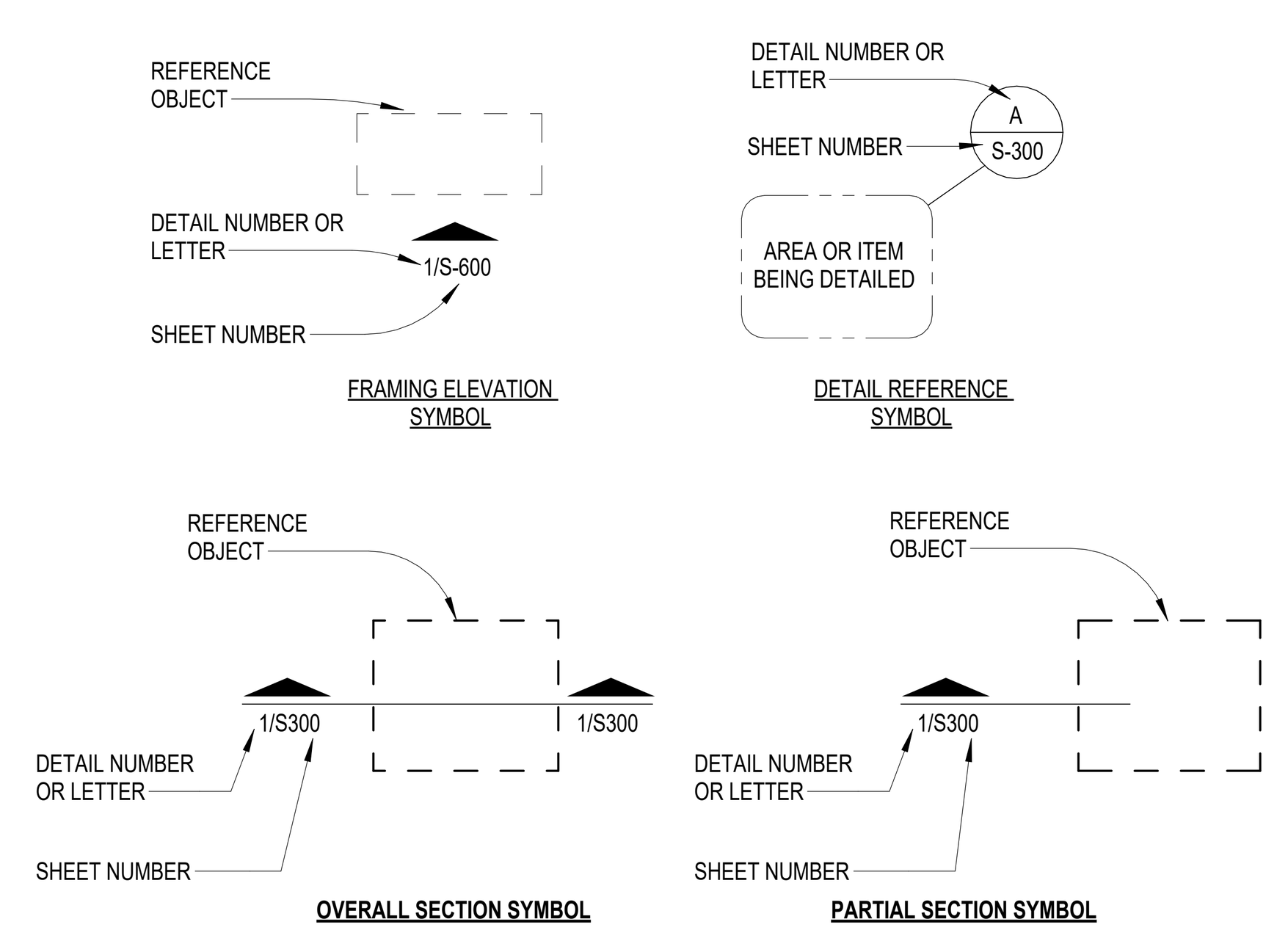
STEEL ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE STEEL FRAMING PLANS. ALL LOADS INDICATED ARE FACTORED:



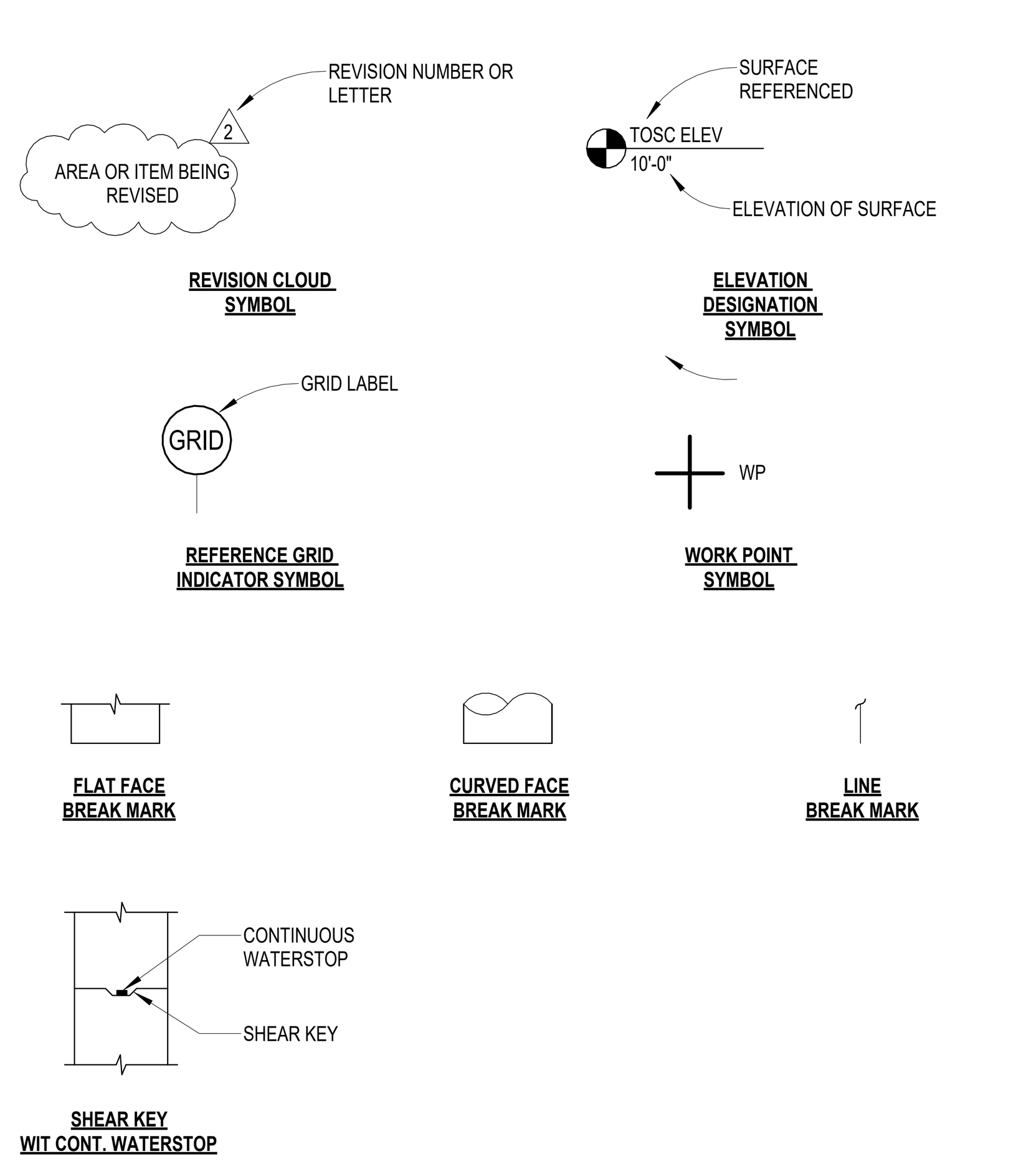
VIEW REFERENCE SYMBOLS

THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS TO REFER TO OTHER VIEWS:



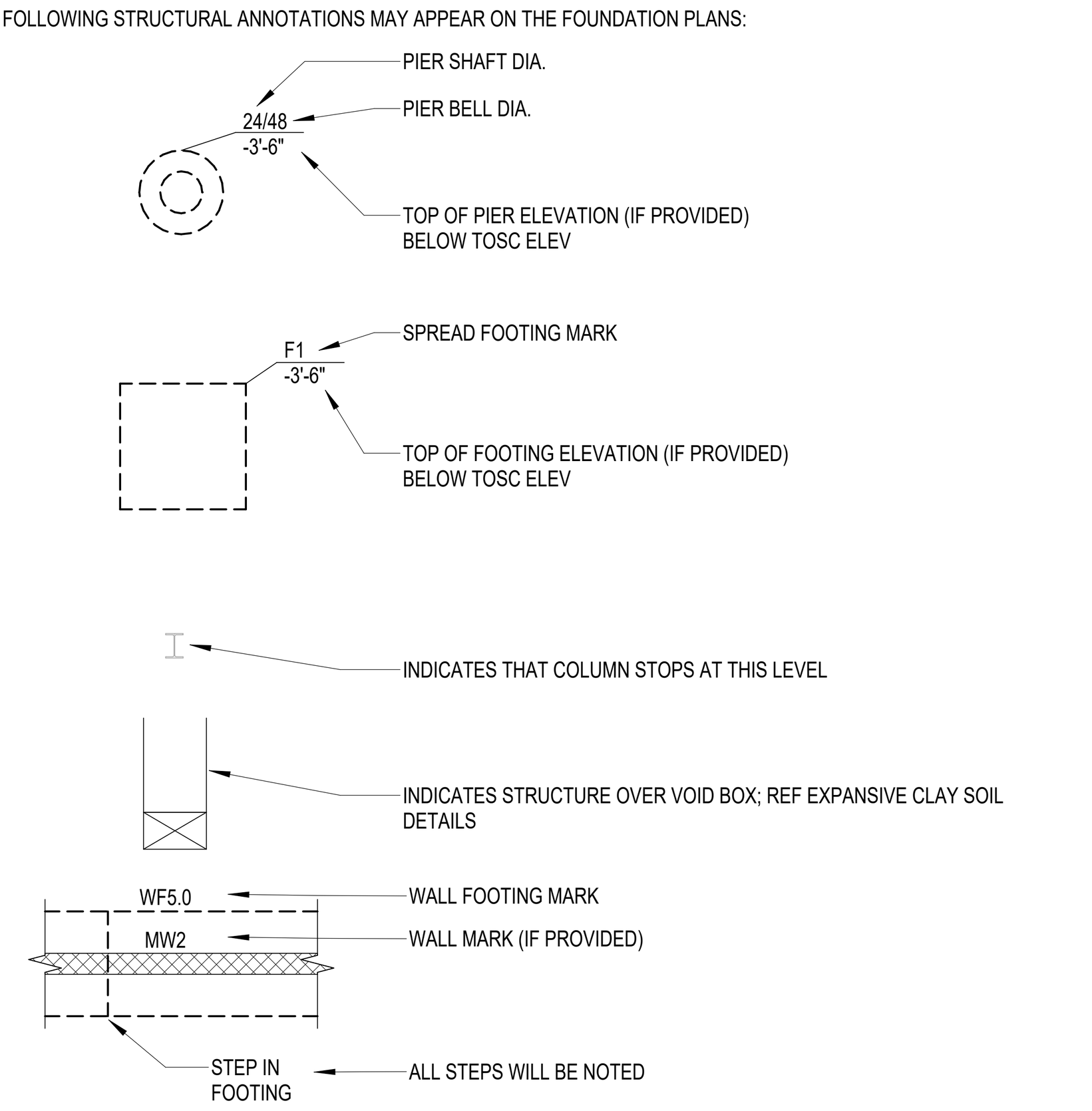
UNIVERSAL SYMBOLS

THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS:



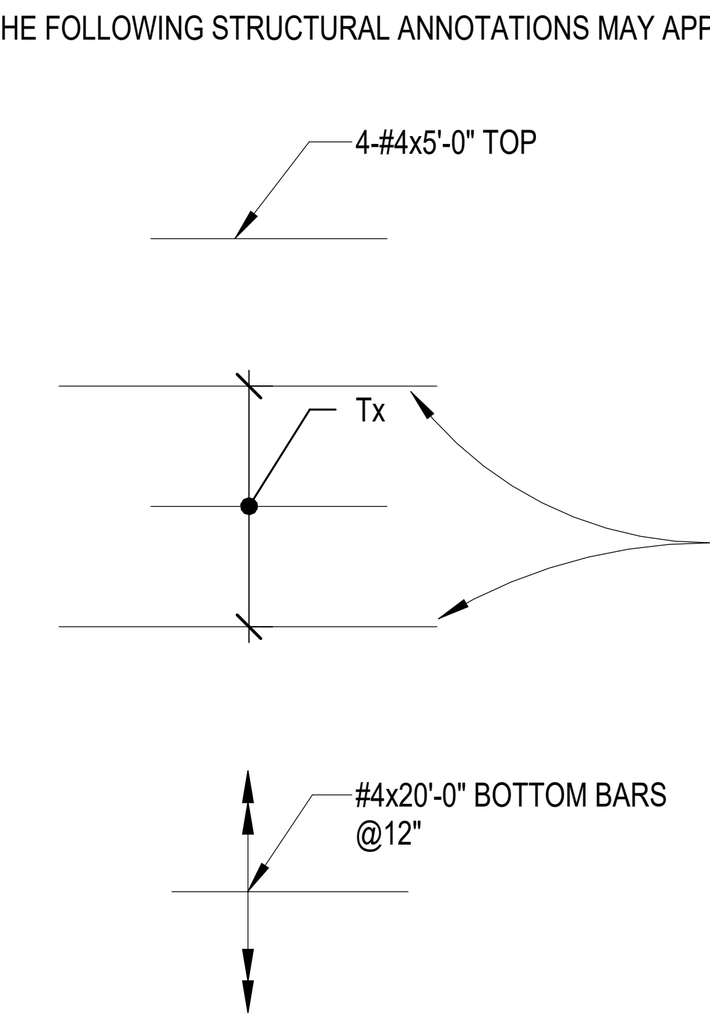
FOUNDATION ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE FOUNDATION PLANS:



CONCRETE ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE CONCRETE FRAMING PLANS:



REINFORCING STEEL NOTED IN PLAN SHALL BE LOCATED ACCORDING TO PLAN NOTES, TYPICAL VIEWS, AND SCHEDULES. HOOKS ARE INDICATED IN PLAN WHERE REQUIRED FOR NON-SCHEDULED REINFORCING STEEL. WHERE HOOKS ARE SHOWN, LENGTHS PROVIDED DO NOT INCLUDE HOOK.

A SINGLE ARROWED LINE INDICATES THE EXTENT OVER WHICH THE REINFORCING STEEL IS TO BE DISTRIBUTED WITH AN EQUAL SPACING BETWEEN BARS.

REFERENCE LINE OR OBJECT WHERE REINFORCING STOPS

A DOUBLE ARROWED LINE INDICATES THAT THE REINFORCING STEEL IS TO BE PROVIDED IN EACH DIRECTION UNTIL ONE OF THE FOLLOWING OCCURS:

1. AN EDGE OF SLAB
2. A SIGNIFICANT CHANGE IN THE SLAB GEOMETRY
3. OTHER REINFORCING STEEL OF A SIMILAR NATURE IS SHOWN.

TYPICAL STRUCTURAL ABBREVIATIONS

A

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFS	ARCH FINISH SURFACE
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY

B

BF	BACK FACE
BFB	BOTTOM FLANGE BRACE
BFF	BELOW FINISH FLOOR
BL	
BLE	BRACKET LEDGE ELEVATION
BLK	BLOCK
BLKG	BLOCKING
BM	
BO	BOTTOM OF
BOA	BACK OF ANGLE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BASE PLATE
BBP	BRACE BASE PLATE
BRG	BEARING
BRKT	BRACKET
BLE	BRICK LEDGE ELEVATION
BTWN	BETWEEN

C

C	CHANNEL
COMP	COMPRESSION
CANT	CANTILEVER
CGS	CENTROID OF TENDONS
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONN	CONNECTION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COR	CORNER
CRSI	CONCRETE REINFORCING STEEL INSTITUTE

D

DBA	DOWEL BAR ANCHOR
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DL	DEAD LOADS
DT	DOUBLE TEE
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)

E

EA	EACH
EAO	EDGE ANGLE OFFSET
EDC	ELECTRICAL DISTRIBUTION CENTER
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
EOD	EDGE OF ROOF DECK
EOS	EDGE OF FLOOR SLAB
EQ	EQUAL
EQUIV	EQUIVALENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EX-STR	EXTRA STRONG

F

FABR	FABRICATOR
FBP	FIXED BASE PATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FL	FLOOR
FLG	FLANGE
FM	FACTORY MUTUAL
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE
FTG	FOOTING
FP	FIREPROOF(ING)
FV	FIELD VERIFY

G

GA	GAUGE
GB	GRADE BEAM
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GR	GRADE
GYP BD	GYPSUM BOARD

H

H	HEIGHT
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR

I

IBC	INTERNATIONAL BUILDING CODE
INFO	INFORMATION
INT	INTERIOR
INTERM	INTERMEDIATE
ISO	ISOLATION
IT	INVERTED TEE

J

JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT

K

KIP	1000 POUNDS
KLF	KIP PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH

L

L	ANGLE OR LENGTH
LB	POUNDS
Ld	TENSION DEVELOPMENT LENGTH AS SHOWN IN REINFORCING LAP SCHEDULE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWC	LIGHT WEIGHT CONCRETE

M

MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
MTR	MATERIAL

N

NIC	NOT IN CONTRACT
NO OR #	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE (150 PCF)

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)

P

PAF	POWDER ACTUATED FASTENER
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCI	PRECAST AND PRESTRESSED CONCRETE INSTITUTE
PT	POST-TENSIONING INSTITUTE
PE	PROFESSIONAL ENGINEER
PEMB	PRE-ENGINEERED METAL BUILDING
PENTR	PENETRATION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FOOT
PP	PARTIAL PENETRATION
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONING

Q

QTY	QUANTITY

R

R	RADUIS
RAF	RAISED ACCESS FLOOR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RND	ROUND
RO	ROUGH OPENING
RTU	ROOF TOP UNIT

S

SCHED	SCHEDULE(D)
SECT	SECTION
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SPA	SPACE
SPECS	SPECIFICATIONS
SPEC'D	SPECIFIED
STIFF	STIFFNER
STIR	STIRRUPS
STL	STEEL
SUBCONTR	SUB-CONTRACTOR
SW	SIDEWALK
SYM	SYMMETRICAL

T

TEMP	TEMERATURE
T	TENSION
TERR	TERRAZO
THK	THICK
T&B	TOP AND BOTTOM
TOB	TOP OF BEAM
TOF	TOP OF FOOTING
TOP	TOP OF PIER ELEVATION
TOS	TOP OF STEEL
TOSC	TOP OF STRUCTURAL CONCRETE
TOW	TOP OF WALL
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE

V

V	SHEAR
VERT	VERTICAL

W

WS	WATERSTOP
WPFG	WATERPROOFING
WWF	WELDED WIRE FABRIC
WB	WIND BRACE
WL	WIND LOAD
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WD	WOOD

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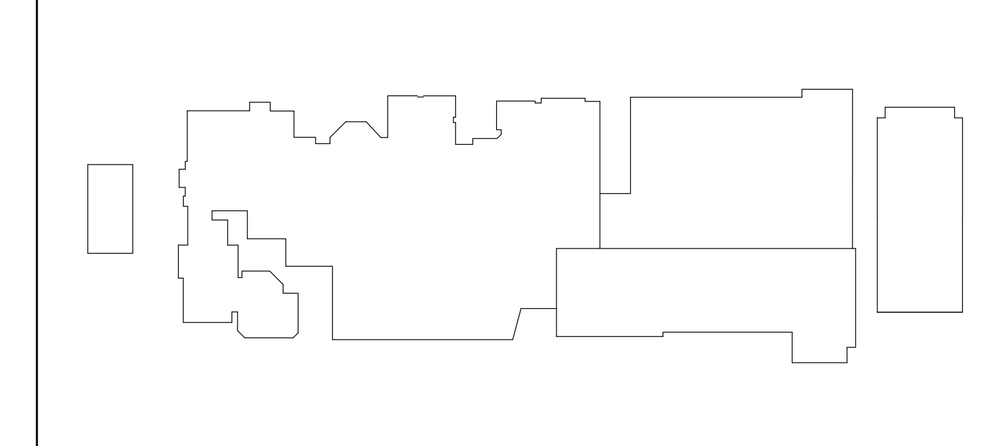
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL NOTES

S-010

Plot Stamp:
12/5/2025 11:50:13 AM

GENERAL NOTES
S-011
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

GENERAL:

CODES, DRAWINGS AND SPECIFICATIONS:

1. THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE IBC 2009. ALL CODES AND SPECIFICATIONS LISTED ABOVE SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

TYPICAL DETAILS:

1. TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL APPLY TO ALL SIMILAR LIKE CONDITIONS OCCURRING ON THE PROJECT WHETHER OR NOT THEY ARE KEYED IN AT EACH PARTICULAR LOCATION.

MISCELLANEOUS:

1. WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PUBLICATIONS AS SPECIFIED HEREIN, THE STRICTER REQUIREMENTS SHALL GOVERN UNLESS NOTED OTHERWISE. WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS (STRUCTURAL DOCUMENTS, SPECIFICATIONS) AS SPECIFIED HEREIN, THE STRICTER REQUIREMENTS SHALL GOVERN.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
4. SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC., AND ANCHORS REQUIRED FOR ANCHORING EQUIPMENT AND PIPING ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE SUCH REQUIREMENTS FROM OTHER SERIES DRAWINGS, SUBCONTRACTORS, AND SUPPLIERS AND SHALL COORDINATE THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR CONSTRUCTION OF THE STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
5. VERIFY, OR ESTABLISH, LOCATIONS AND DIMENSIONS OF ALL FRAMED OPENINGS RELATED TO EQUIPMENT OR DUCTWORK, INCLUDING INSULATION, IF ANY. WHERE SUBSTANTIAL RELOCATION OR RECONFIGURATION IS REQUIRED, SUBMIT A DRAWING TO THE ARCHITECT FOR REVIEW.
6. MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL WHICH ARE NOT AS SPECIFIED IN THE DOCUMENTS SHALL BE ACCOMPANIED BY A CURRENT ES REPORT (BY ICC EVALUATION SERVICE, INC.) OR ICBO REPORT (BY INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS). MATERIALS OR PRODUCTS THAT DO NOT HAVE AN ES OR ICBO REPORT INDICATING THE SUBSTITUTED MATERIAL OR PRODUCT TO BE EQUAL TO THAT SPECIFIED, WILL NOT BE CONSIDERED.
7. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
8. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
9. ALL HEAVILY LOADED VEHICLES, CONCRETE TRUCKS AND CRANES SHALL NOT BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE SLAB INDUCED FROM THIS TYPE OF EQUIPMENT.
10. ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF SEVEN DAYS.
11. NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE SOIL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE SOIL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTION IN THE SOIL REPORT.
12. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. THE ABILITY OF THE STRUCTURAL FRAME TO RESIST THE REQUIRED CODE FORCES DERIVES FROM THE COMPLETE INSTALLATION OF THE LATERAL FORCE RESISTING SYSTEMS AND DIAPHRAGMS DESCRIBED BELOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND ALL DESIGNATED CONCRETE ELEMENTS (IF ANY) HAVE REACHED A MINIMUM OF 75% OF THEIR DESIGN STRENGTH.
13. THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE FINAL STRUCTURE ONCE COMPLETED AND OCCUPIED. THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING OR RESHORING, OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.

DESIGN CRITERIA:

DEAD LOADS:

1. DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURAL COMPONENTS AND ALLOWANCES FOR PERMANENT PARTITIONS, PERMANENT FIXTURES, FINISHES, ROOFING, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION MATERIALS SHOWN OR SPECIFIED.
2. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, LOCATION OR NUMBER OF PIECES OF EQUIPMENT SHOULD BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
3. DESIGN DEAD LOADING IS AS FOLLOWS:

ROOF (RIGID INSULATION BOARD)	SELF WEIGHT + 25 PSF COLLATERAL
ROOF (LIGHTWEIGHT INSULATION FILL)	SELF WEIGHT + 35 PSF COLLATERAL
FLOOR	SELF WEIGHT + 25 PSF COLLATERAL

LIVE LOADS:

1. DESIGN LIVE LOADING IS AS FOLLOWS:

ROOF	20 PSF, 300# CONCENTRATED LOAD (REDUCIBLE)
TYPICAL FLOORS	100 PSF , 1000# CONCENTRATED LOAD (REDUCIBLE)
ALL SLABS-ON-GRADE	100 PSF
MECHANICAL/ELECTRICAL ROOM (MIN.)	150 PSF (UNREDUCIBLE)
ELEVATOR MACHINE ROOM	150 PSF (UNREDUCIBLE)
HANDRAILS AND GUARDRAILS	50 PLF OR 200# APPLIED AT TOP RAIL IN ANY DIRECTION
LIBRARY, COMPUTER ROOM	150 PSF (UNREDUCIBLE)
LIGHT STORAGE	150 PSF (UNREDUCIBLE)
STAGE	125 PSF (UNREDUCIBLE)
STAIRWAYS AND EXITS	100 PSF + 300# CONCENTRATED LOAD AT TREAD MIDSPAN
CATWALKS	40 PSF

SNOW LOADS:

1. DESIGN SNOW LOADING IS AS FOLLOWS:

GROUND SNOW LOAD, Pg	5.0 PSF
SNOW LOAD IMPORTANCE FACTOR	1.1
SNOW RISK CATEGORY	III
SNOW THERMAL FACTOR, Ct	1.0
SNOW EXPOSURE FACTOR, Ce	0.9
FLAT SNOW LOAD, Pf	3.5 PSF
ROOF SLOPE FACTOR, Cs	1.0
SLOPED (BALANCED) SNOW LOAD, Ps	3.5 PSF

(FOR ROOF SLOPES > 10 DEGREES)

WIND LOADS:

1. WIND PRESSURES ARE BASED ON THE PROVISIONS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-05, CITY OF GALENA PARK AMENDMENTS, AND THE FOLLOWING CRITERIA:
   A. WIND DESIGN DATA (USED FOR PRESSURE DETERMINATION FOR THE DESIGN OF BUILDING)

1. BASIC WIND SPEED, V	116 MPH (3-SECOND GUST) (ULTIMATE)
2. WIND OCCUPANCY CATEGORY	III
3. WIND IMPORTANCE FACTOR, I	1.0
4. WIND EXPOSURE CATEGORY	C
5. INTERNAL PRESSURE COEFFICIENT, Gcpi	+/-0.18
6. WIDTH OF END ZONE, 2a	55.2 FT

   B. WIND-BORNE DEBRIS DATA*** (USED TO DETERMINE IF BUILDING IS LOCATED WITHIN A WIND-BORNE DEBRIS REGION)

1. WIND-BORNE DEBRIS BASIC WIND SPEED TRIGGER, V	140 MPH (3-SECOND GUST) (ULTIMATE)
2. BASIC WIND SPEED, V	116 MPH
3. WIND OCCUPANCY CATEGORY	II
4. WIND-BORNE DEBRIS PROTECTION REQUIRED?	NO

   *** - THE INFORMATION SHOWN IN WIND LOADS SECTION 1.B IS ONLY PROVIDED TO INDICATE IF THE BUILDING IS WITHIN A WIND-BORNE DEBRIS AREA. THIS SECTION DOES NOT APPLY TO ANY COMPONENTS THAT ARE LISTED AS DELEGATED DESIGN. ALL DELEGATED DESIGN COMPONENTS SHALL BE DESIGN FOR THE WIND DESIGN DATA AND DESIGN WIND PRESSURES PROVIDED IN SECTION 1.A AND 1.C.

   C. DESIGN WIND PRESSURES
      1. MAIN WIND-FORCE RESISTING SYSTEM (MWFRS)
         I. WALLS (WW+LW)

0'-15'	36.2 PSF
15'-20'	37.4 PSF
20'-25'	38.4 PSF
25'-30'	39.2 PSF
30'-40'	40.6 PSF
40'-50'	41.8 PSF
50'-60'	42.8 PSF
60'-70'	43.6 PSF
70'-72'	43.8 PSF

      2. COMPONENTS AND CLADDING
         I. WALLS (AREA = 75 SF)

INTERIOR ZONE	40.6 PSF
END ZONE	45.8 PSF

         II. ROOF UPLIFT (GROSS) - ROOF ATTACHMENTS (AREA = 10 SF)

NEGATIVE ZONE 1	46.5 PSF
NEGATIVE ZONE 2	78.0 PSF
NEGATIVE ZONE 3	117.5 PSF
OVERHANG 1 & 2 *	67.0 PSF
OVERHANG ZONE 3*	110.4 PSF

         III. ROOF UPLIFT (GROSS) - JOISTS (AREA = 100 SF)

NEGATIVE ZONE 1	42.6 PSF
NEGATIVE ZONE 2	50.4 PSF
NEGATIVE ZONE 3	50.4 PSF
OVERHANG 1 & 2 *	63.1 PSF
OVERHANG ZONE 3*	31.5 PSF

         IV. ROOF UPLIFT (GROSS) - GIRDERS (AREA > 700 SF)

0' TO 72	37.2 PSF
72 TO 144	23.9 PSF
>144	17.2 PSF
WINDWARD ROOF OVERHANGS (ADD TO WINDWARD ROOF PRESSURE)	26.8 PSF (UPWARD)

         V. ROOF POSITIVE WIND PRESSURE (GROSS) - ALL ZONES

C&C AREA = 10 SF	18.9 PSF
C&C AREA = 100 SF	15.0 PSF
C&C AREA > 700 SF	15.0 PSF

      * - OVERHANG PRESSURES IN THE TABLE ABOVE ASSUME AN INTERNAL PRESSURE COEFFICIENT (Gcpi) OF 0.0

SEISMIC LOADS:

1. THE STRUCTURE AND COMPONENTS OF THE BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH AFOREMENTIONED BUILDING CODE WITH THE FOLLOWING CRITERIA:

RISK CATEGORY	III
IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL RESPONSE COEFFICIENT:	Ss = 0.072g S1 = 0.039g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE COEFFICIENTS:	Sds = 0.058g Sd1 = 0.044g
SEISMIC DESIGN CATEGORY	A
LATERAL SYSTEM	STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE
BASE SHEAR	V = 0.029W K
SEISMIC RESPONSE COEFFICIENT	CS = 0.029
RESPONSE MODIFICATION FACTOR	R = 3.0
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

ALLOWANCE NOTES:

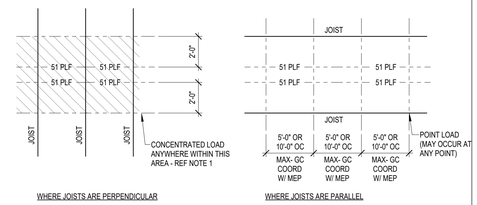
TO ACCOUNT FOR ANY POTENTIALLY UNREALIZED CONDITIONS THE GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING ALLOWANCES:

1. PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 35 TONS OF MISCELLANEOUS STEEL. SIZES OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE/ACCOUNT FOR ALL COSTS FOR MATERIAL, FABRICATION, DELIVERY, ERECTION, ETC. ANY UNUSED PORTION OF THE 35 TONS OF STEEL SHALL BE CREDITED BACK TO THE OWNER AT $4,800.00 / TON.
2. PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 350 CUBIC YARDS OF CONCRETE. SIZE OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE/ACCOUNT FOR ALL COSTS FOR MATERIAL, FABRICATION, DELIVERY, LABOR FOR INSTALLATION PLACEMENT, FORMWORK, ETC. REINFORCEMENT FOR CONCRETE SHALL ALSO BE INCLUDED AS PART OF THIS ALLOWANCE AND SHALL BE ASSUMED TO BE 2% MINIMUM BY VOLUME. ANY UNUSED PORTION OF THE 350 CUBIC YARDS SHALL BE CREDITED BACK TO THE OWNER AT $190.00 / CUBIC YARD.
3. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE ADD AND UNIT PRICE DEDUCT FOR EACH PIER SIZE UTILIZED ON THE PROJECT.
4. THE PRICE FOR CASING OF PIERS SHALL BE INCLUDED WITHIN THE BASE BID FOR ALL DRILLED (BELLED) PIERS ON THE PROJECT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR 100% CASING OF DRILLED PIERS. CONTRACTOR SHALL ALSO PROVIDE UNIT PRICE FOR EACH SIZE OF CASING UTILIZED ON THE PROJECT. PAYMENT FOR CASING SHALL BE BASED UPON NET LENGTH OF CASING UTILIZED MULTIPLIED BY THE UNIT PRICE.
5. THE DRAWINGS AND SPECIFICATIONS MAY NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE PROJECT. REFER TO IMPORTANT FOUNDATION / CONCRETE, MASONRY / CMU, AND STEEL NOTES TO PROPOSERS FOLLOWING THIS SECTION.

MISCELLANEOUS LOADS:

1. ALL JOISTS ALONG PIPE RUN SHALL BE DESIGNED FOR SUSPENDED PIPE WEIGHT. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE HOW OFTEN PIPES WILL BE HUNG (5'-0" OC OR 10'-0" OC) SO THAT PROPER LOADING MAY BE ACCOUNTED FOR. IT IS RECOMMENDED TO HANG FROM EACH JOIST (GC MUST COORDINATE WITH MEP CONTRACTOR TO ENSURE SAME HANGING PATTERN IS FOLLOWED):

ADDITIONAL JOIST DEAD-LOAD FOR MECHANICAL PIPE LOADS WITH WATER		
PIPE SIZE (DIAMETER)	PERPENDICULAR CONDITION	PARALLEL CONDITION
3"	110 LBS AT 10'-0"	11 PLF
4"	170 LBS AT 10'-0"	17 PLF
5"	240 LBS AT 10'-0"	24 PLF
6"	320 LBS AT 10'-0"	32 PLF
8"	510 LBS AT 10'-0"	51 PLF
10"	750 LBS AT 10'-0"	75 PLF



PIPE RUN JOIST LOADING

NOTE:
WHERE PIPES RUN PERPENDICULAR TO JOISTS, JOISTS THAT ARE SUPPORTING PIPES SHALL BE DESIGNED FOR ADDITIONAL CONCENTRATED DEAD LOAD AT ANY POINT ALONG JOIST SPAN WITHIN THE HATCHED AREA.

2. ARCHITECTURAL BARRIER ACT STANDARD:

ITEM	REQUIRED CAPACITY
GRAB BAR	250 POUNDS ANY DIRECTION
TUB OR SHOWER SEAT	250 POUNDS ANY DIRECTION
FASTENERS & MOUNTING DEVICES	250 POUNDS ANY DIRECTION

BUILDING MOVEMENT AND DEFLECTION:

A. ROOF MEMBERS	DEFLECTION LIMIT
1. LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/360
2. TOTAL LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/240
B. FLOOR MEMBERS	
1. LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/360
2. TOTAL LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/240
C. MEMBERS SUPPORTING MASONRY	
1. LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/600 OR 3/8"
D. BUILDING FRAME	
1. MAXIMUM ALLOWABLE STORY DRIFT	HEIGHT/500 (TOTAL BUILDING HEIGHT)

IMPORTANT NOTES TO CONTRACTORS & PROPOSERS:

FOUNDATION / CONCRETE:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL FOUNDATION / CONCRETE WORK WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. WHERE FOUNDATION / CONCRETE ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY FOUNDATION / CONCRETE ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

A. GRADE BEAMS:	GB2 (REFER TO GRADE BEAM SCHEDULE)
B. PILASTER OR PLINTH:	PILASTER MATCHING SIZE AND REINF. PER TYPICAL PILASTER DETAILS.
C. SLAB-ON-GRADE:	5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH EITHER: - #3 BARS AT 10" OC EACH WAY ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR, - #4 BARS AT 16" OC EACH WAY ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY. PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT. FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.
D. STEM WALLS:	10" THICK WITH (2) LAYERS OF #5 BARS AT 12" OC EACH WAY, ONE LAYER ON EACH FACE WITH 3" CLEAR COVER.

THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION

3. THERE ARE NUMEROUS AREAS OF "EXTERIOR CONCRETE" THAT IS SHOWN BY STRUCTURAL. IN ALL CASES THIS CONCRETE IS INTENDED TO BE SUSPENDED WHETHER ADJACENT TO SLAB-ON-GRADE OR SUSPENDED SLAB AREAS. THE FINISH OF THIS CONCRETE SHALL FOLLOW DIRECTION FROM ARCH/CIVIL. THE SLOPE OF THESE AREAS SHALL FOLLOW ARCH/CIVIL. STRUCTURAL CANNOT DICTATE THE DIRECTION OF SLOPE OR FINISH OF THESE CONCRETE AREAS, IT IS THE GC'S SOLE RESPONSIBILITY TO COORDINATE WITH THE ARCH AND CIVIL DRAWINGS AND PROVIDE APPROPRIATE SLOPE DIRECTION, SLOPE AMOUNT, AND SURFACE FINISH TO MEET ALL REQUIREMENTS SET FOR IN ARCH AND CIVIL DRAWINGS; TYPICAL. GC SHALL ENSURE ALL STOREFRONTS, DOORS AND/OR OTHER OPENING INFILL ELEMENTS HAVE AN APPROVED WATERSTOP BELOW BETWEEN THE INFILL COMPONENT AND THE SLAB. THIS IS REQUIRED AT ALL AREAS BUT EXCEPTIONALLY CRITICAL AT THE AREAS WITH EXTERIOR STRUCTURAL SLAB.
4. UNLESS SPECIFICALLY DIRECTED OTHERWISE WITHIN THE STRUCTURAL CD'S OR SPECIFICATIONS, AT ALL SAW-CUT AND CONSTRUCTION JOINTS WITHIN CONCRETE SLABS-ON-GRADE THE GENERAL CONTRACTOR SHALL PROVIDE A SEMI-RIGID JOINT FILLER, EITHER MM80 OR EUCO 700 WITHIN EACH JOINT. THE JOINT FILLER MUST BE INSTALLED SOON AFTER CONCRETE SLAB INSTALLATION TO PREVENT SPALL AND BREAK-DOWN OF THE HARD CONCRETE EDGES OF THE SAW-CUTS AND CONSTRUCTION JOINTS UNDER THE CONSTRUCTION EQUIPMENT. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS FOR PROPER CLEANING AND PRIMER PRIOR TO INSTALL. THE FILLER MUST FILL THE FULL LENGTH AND FULL DEPTH OF THE JOINT. ONCE INSTALLED THE JOINT FILLER SHALL BE PROTECTED UNTIL THE BUILDING IS APPROVED FOR OCCUPANCY. IF THE CONTRACTOR DESIRES TO PROVIDE AN APPROVED EQUAL TO THE PRODUCTS SPECIFIED ABOVE OR WITHIN THE CONSTRUCTION DOCUMENTS THE GENERAL CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE STRUCTURAL EOR PRIOR TO ASSUMING COST WITHIN BID. UNTIL SUCH APPROVAL CAN BE PROVIDED THE GENERAL CONTRACTOR SHALL ACCOUNT FOR THE COST OF THE APPROVED PRODUCTS WITHIN THE CD'S AND / OR AS NOTED ABOVE.

MASONRY / CMU:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL MASONRY / CMU WORK WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. IF A CMU WALL IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NO SUPPORT MEMBERS OR NOTES HAVE BEEN INDICATED WHERE SUPPORT AND NOTES HAVE BEEN PROVIDED FOR OTHER SIMILAR CONDITIONS THE GC SHALL ASSUME A LIKE FOR LIKE SUPPORT SYSTEM FOR SIMILAR HEIGHTS OF CMU. FOR EXAMPLE: IF A FULL HEIGHT WALL IS SHOWN ON ARCHITECTURAL IT SHALL BE ASSUMED THAT THE SAME STRUCTURAL SUPPORT WILL BE PROVIDED BELOW THIS WALL AS IS SHOWN FOR ALL FULL HEIGHT WALLS, THIS WOULD INCLUDE THE SAME TYPICAL GRADE BEAM, TYPICAL PIER, AND TYPICAL CMU REINFORCEMENT.
3. U.N.O. GC SHALL ASSUME ALL INTERIOR CMU WALLS, NOT BEING USED AS STRUCTURAL SHEARWALLS, WILL BE BRACED TO THE ABOVE STRUCTURE, ROOF OR FLOOR, PER 5/S-403 AND THAT WALLS ARE REINFORCED PER 2/S-401. U.N.O. GC SHALL ASSUME ALL EXTERIOR CMU WALLS AND ALL INTERIOR CMU WALLS BEING USED AS SHEARWALLS TO BE STRUCTURALLY CLIPPED TO THE FLOOR OR ROOF ABOVE PER 8/S-402 AND THAT ALL WALLS ARE REINFORCED PER 6/S-401

STEEL:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL SECONDARY FRAMING WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. WHERE MISCELLANEOUS METAL ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

A. ANGLES: L6X6X3/8
B. CHANNELS: C12X20.7
C. PLATES: 1/2" THICK
D. ANCHOR RODS: 1 1/2" DIAMETER X 18" LONG
E. EPOXY ANCHORS: 3/4" DIAMETER AT 48" OC MAX SPACING
F. WIDE FLANGE BEAMS: W24X55
G. WIDE FLANGE COLUMNS: W12X79
H. HSS COLUMNS: HSS8X8X1/2
I. HSS BEAMS: HSS16X6X5/8
J. VERT. BRACE: HSS8X8X3/8

THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION

3. PROVIDE SUPPORT FOR EDGES OF ROOF AND FLOOR DECK WHETHER SHOWN ON THE DRAWINGS OR NOT. PROVIDE CONTINUOUS SCREED ANGLE OR BENT PLATE FOR SLAB EDGES.
4. PROVIDE SHEAR STUDS AT ALL FLOOR BEAMS. BEAMS WITHOUT STUDS NOTED SHALL HAVE 3/4 " DIAMETER STUDS SPACED AT 12" OC.
5. THE GENERAL CONTRACTOR AND THE ELEVATOR SUPPLIER SHALL REVIEW THE STRUCTURAL DRAWINGS FOR FLOOR TO FLOOR AND FLOOR TO ROOF HEIGHTS FOR THE REQUIRED DISTANCE BETWEEN BRACE POINTS, FOR THEIR RAIL DESIGN. PROVIDE A W18x50 MINIMUM HOIST BEAM SIZE, IF NO OTHER SIZE IS PROVIDED ON THE PLANS. BRACING REQUIREMENTS FOR THE TOP OF THE RAIL, OR INTERMEDIATE RAIL BRACE POINTS, SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF BRACING IS REQUIRED BUT NOT SHOWN, PROVIDE A MINIMUM OF HSS6x6X3/8 VERTICAL POST ATTACHED TO THE STRUCTURE WITH W6x24 BEAMS OR C6x13 CHANNELS SPANNING BETWEEN THE FRAMING MEMBERS. ALL MISCELLANEOUS STEEL MEMBERS REQUIRED TO ATTACH RAILS AT THE RAIL BRACE POINTS SHALL BE SUPPLIED BY THE ELEVATOR SUPPLIER. ELEVATOR MACHINE BEAM OR SHIVE BEAM LOADS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. LOADS AND LOAD LOCATIONS VARYING FROM THE LOADS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH THE STRUCTURAL ENGINEER OF RECORD.

THE FRAMING AND INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS BASED ON:
ELEVATOR MODEL NO. PER SPEC. - REF ARCH/MEP SPECS/ DRAWINGS
MANUFACTURED BY PER SPEC. - REF ARCH/MEP SPECS/ DRAWINGS

IF THE ELEVATOR MANUFACTURER AND/OR MODEL NUMBER CHANGES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REVISIONS TO THE FOUNDATIONS AND THE FLOOR AND ROOF FRAMING AS REQUIRED DUE TO THE CHANGE IN THE ELEVATOR TYPE.

BIDDING PROCESS:

1. AFTER BIDDING AND PRIOR TO CONTRACT AWARD IT IS COMMON FOR THE GENERAL CONTRACTOR TO SUBMIT THEIR "QUALIFICATIONS AND ASSUMPTIONS", A WRITTEN STATEMENT OF QUALIFICATIONS, EXCEPTIONS, AND ASSUMPTIONS SPECIFIC TO THEIR BID AND THEIR RECOMMENDED SUBCONTRACTORS. THE QUALIFICATIONS AND ASSUMPTIONS RELATED TO THE STRUCTURAL ENGINEERING SCOPE OF WORK MUST BE SUBMITTED TO THE DESIGN TEAM AND THE STRU

GENERAL NOTES
S-012
FOR BLUEBEAM LABELING/OCR:

STRUCTURAL SUBMITTALS (NO LEEDS)

SPECIFICATION SECTION	ITEM	SUBMITTAL
03 10 00	FORM WORK SHOP DRAWINGS	FOR INFORMATION ONLY/SIGNED AND SEALED
03 10 00	MANUFACTURER'S PRODUCT DATA FOR APPROVAL	FOR APPROVAL
03 10 00	CONSTRUCTION JOINT LAYOUT	FOR INFORMATION ONLY
03 11 31	VOID FORM PRODUCT DATA	FOR APPROVAL
03 20 00	STEEL REINFORCING SHOP DRAWINGS	FOR APPROVAL
03 20 00	EMBEDDED METAL ASSEMBLY SHOP DRAWINGS	FOR APPROVAL
03 20 00	MANUFACTURER'S PRODUCT INFORMATION FOR BAR SUPPORTS	FOR APPROVAL
03 20 00	MILL TEST CERTIFICATE OF STEEL REINFORCING	FOR INFORMATION ONLY
03 20 00	QUALIFICATION DATA	FOR INFORMATION ONLY
03 20 00	WELDING CERTIFICATES	FOR INFORMATION ONLY
03 25 13	GFRP REINFORCING SHOP DRAWINGS	FOR APPROVAL
03 25 13	MANUFACTURER'S PRODUCT DATA	FOR APPROVAL
03 25 13	MATERIAL TEST REPORTS	FOR INFORMATION ONLY
03 25 13	QUALIFICATION DATA	FOR INFORMATION ONLY
03 25 13	SOURCE QUALITY CONTROL PROGRAM	FOR INFORMATION ONLY
03 25 13	SOURCE QUALITY TEST REPORTS	FOR INFORMATION ONLY
03 30 00	CONCRETE MIX DESIGN	FOR APPROVAL
03 30 00	SLAB ON GRADE AND COMPOSITE SLAB CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE	FOR APPROVAL
03 30 00	MATERIAL CERTIFICATES FOR CONCRETE RELATED PRODUCTS	FOR APPROVAL
03 30 00	PRODUCT DATA	FOR INFORMATION ONLY
03 30 00	QUALIFICATION DATA	FOR INFORMATION ONLY
03 30 00	MATERIAL TEST REPORTS	FOR INFORMATION ONLY
03 30 00	FLOOR SURFACE FLATNESS	FOR INFORMATION ONLY
03 30 00	FIELD QUALITY CONTROL REPORTS	FOR INFORMATION ONLY
03 30 00	MINUTES OF PRE-INSTALLATION CONFERENCE	FOR INFORMATION ONLY
03 52 16	LIGHTWEIGHT INSULATING CONCRETE SHOP DRAWINGS	FOR APPROVAL
03 52 16	MANUFACTURER'S PRODUCT DATA	FOR APPROVAL
03 52 16	LIGHTWEIGHT CONCRETE MIX DESIGN	FOR APPROVAL
03 52 16	PRODUCT CERTIFICATES	FOR INFORMATION ONLY
03 52 16	MATERIAL TEST REPORTS	FOR INFORMATION ONLY
03 52 16	RESEARCH EVALUATION REPORT	FOR INFORMATION ONLY
03 52 16	FIELD QUALITY CONTROL TEST	FOR INFORMATION ONLY
04 22 00	CMU WALL SHOP DRAWINGS	FOR APPROVAL
04 22 00	MIX DESIGN (MORTAR AND GROUT)	FOR APPROVAL
04 22 00	MASONRY COMPRESSIVE STRENGTH	FOR APPROVAL
04 22 00	SAMPLES FOR SELECTION AND VERIFICATION	FOR APPROVAL
04 22 00	MATERIAL CERTIFICATES	FOR INFORMATION ONLY
04 22 00	COLD/HOT WEATHER PROCEDURES	FOR INFORMATION ONLY
04 22 00	QUALIFICATION DATA	FOR INFORMATION ONLY
05 12 00	STRUCTURAL STEEL FRAMING SHOP DRAWINGS	FOR APPROVAL
05 12 00	STEEL CONNECTION CALCULATIONS	FOR INFORMATION ONLY/ SIGNED AND SEALED
05 12 00	WELDING PROCEDURE SPECIFICATION	FOR INFORMATION ONLY
05 12 00	WELDING CERTIFICATES	FOR INFORMATION ONLY
05 12 00	MILL TEST CERTIFICATE OF STRUCTURAL STEEL	FOR INFORMATION ONLY
05 12 00	PAINT COMPATIBILITY CERTIFICATE	FOR INFORMATION ONLY
05 12 00	QUALIFICATION DATA	FOR INFORMATION ONLY
05 21 00	STEEL JOIST FRAMING SHOP DRAWINGS	FOR APPROVAL
05 21 00	WELDING CERTIFICATES	FOR INFORMATION ONLY
05 21 00	MILL CERTIFICATES	FOR INFORMATION ONLY
05 21 00	ENGINEERING ANALYSIS OF SPECIAL JOISTS	FOR INFORMATION ONLY/ SIGNED AND SEALED
05 21 00	ENGINEERING ANALYSIS OF COMPOSITE JOISTS	FOR APPROVAL/ SIGNED AND SEALED
05 21 00	PRODUCT DATA	FOR INFORMATION ONLY
05 31 13	STEEL FLOOR DECK SHOP DRAWINGS	FOR APPROVAL
05 31 13	PRODUCT CERTIFICATE	FOR INFORMATION ONLY
05 31 13	PRODUCT TEST REPORT	FOR INFORMATION ONLY
05 31 23	STEEL ROOF DECK SHOP DRAWINGS	FOR APPROVAL
05 31 23	PRODUCT CERTIFICATE	FOR INFORMATION ONLY
05 31 23	PRODUCT TEST REPORT	FOR INFORMATION ONLY
05 40 00	COLD FORMED METAL STUD SHOP DRAWINGS	FOR APPROVAL
05 40 00	COLD FORMED METAL STUD CALCULATIONS	FOR INFORMATION ONLY/ SIGNED AND SEALED
05 40 00	PRODUCT TEST REPORT	FOR INFORMATION ONLY
05 40 00	RESEARCH REPORT	FOR INFORMATION ONLY
05 40 00	WELDING CERTIFICATE	FOR INFORMATION ONLY
05 50 00	METAL FABRICATION-LADDERS	FOR APPROVAL/ SIGNED AND SEALED
05 50 00	METAL FABRICATION-TOILET PARTITION SUPPORT	FOR APPROVAL/ SIGNED AND SEALED
05 50 00	METAL FABRICATION-MEDICAL EQUIPMENT SUPPORT	FOR APPROVAL/ SIGNED AND SEALED
06 10 00	PRODUCT DATA	FOR INFORMATION ONLY
06 10 00	FASTENER PATTERNS	FOR APPROVAL
06 10 00	MATERIAL CERTIFICATES	FOR INFORMATION ONLY
06 10 00	EVALUATION REPORTS	FOR INFORMATION ONLY
31 63 29	PIER REINFORCEMENT SHOP DRAWINGS	FOR APPROVAL
31 63 29	PIER CONCRETE MIX DESIGN	FOR APPROVAL
31 63 29	PIER DRILLING LOG	FOR INFORMATION ONLY

DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

1. A STRUCTURAL COMPONENT IS AN INDIVIDUAL STRUCTURAL MEMBER DESIGNED TO BE PART OF A STRUCTURAL SYSTEM. A LIST OF STRUCTURAL COMPONENTS THAT ARE TO BE DESIGNED BY THE COMPONENT SUPPLIERS ENGINEERS IS PROVIDED IN THESE PLANS AND SPECIFICATIONS.
2. A COMPONENT'S DELEGATED ENGINEER AND RESPONSIBLE CHARGE, SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
3. ALL DRAWINGS AND CALCULATIONS FOR COMPONENTS IN QUESTION, OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS SHALL REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER WHO PREPARED THEM.
4. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY THE SYSTEM SUPPLIER IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND/OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN CONTRACT DOCUMENTS.
5. SEE APPLICABLE SECTIONS OF GENERAL NOTES AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.

SPECIAL INSPECTIONS:

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEERS SCOPE OF SERVICES. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR WHO IS APPROVED BY THE BUILDING AUTHORITY OR THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER BEFORE CONSTRUCTION OPERATIONS CONTINUE. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS HE HAS REVIEWED ALL SPECIAL INSPECTIONS/TESTING LABORATORY TEST RESULTS.

CHAPTER 17 OF THE 2009 INTERNATIONAL BUILDING CODE, INCLUDING ANY LOCAL AMENDMENTS, REQUIRES SPECIAL INSPECTION ON THE FOLLOWING ITEMS:

SOILS (SECTION 1705.6)
CONCRETE CONSTRUCTION (SECTION 1705.3)
STEEL (SECTION 1705.2)
MASONRY (SECTION 1705.4)
DRIVEN DEEP FOUNDATIONS (SECTION 1705.7)
CAST-IN-PLACE DEEP FOUNDATIONS (SECTION1705.8)
HELICAL PILE FOUNDATIONS (SECTION 1705.9)
FABRICATED ITEMS (SECTION 1705.10)
SPECIAL INSPECTIONS FOR WIND RESISTANCE (SECTION 1705.11)
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (SECTION 1705.12)
TESTING FOR SEISMIC RESISTANCE (SECTION 1705.13)
SPECIAL INSPECTIONS FOR WINDSTORM CERTIFICATION PER TDI

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SHOP DRAWINGS:

1. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ESTABLISH, CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
2. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THE REVIEW BY A STAMP NOTING THAT THE SUBMITTAL HAS BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE; OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR, WILL BE RETURNED WITHOUT REVIEW.
3. THE REVIEW OF SUBMITTALS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE STRUCTURAL CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, GENERAL NOTES OR SPECIFICATIONS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.
4. SIGNED AND SEALED CALCULATIONS FOR A PARTICULAR SYSTEM SUBMITTED AS PART OF A SHOP DRAWING ARE REVIEWED FOR LOAD CRITERIA AND GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS, NOR DO THEY RELIEVE THE SYSTEM ENGINEER OR THE CONTRACTOR OF RESPONSIBILITY.
5. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT.

   a. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED.

   b. COSTS FOR PREPARATION OF STRUCTURAL SHOP DRAWINGS SHALL BE INCLUDED IN THE BID PRICE ASSUMING THAT REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS WILL NOT BE AVAILABLE.
6. OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
7. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS, AND THIS RESPONSIBILITY SHALL LIE SOLELY WITH THE CONTRACTOR.
8. SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.
9. COMPLY WITH THE SUBMITTAL PROCEDURES ESTABLISHED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. AS A MINIMUM, PREPARE AND SUBMIT A STRUCTURAL SUBMITTAL SCHEDULE IN CHRONOLOGICAL ORDER OF SUBMITTALS PRIOR TO THE BEGINNING OF THE STRUCTURAL SUBMITTAL PROCESS.

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
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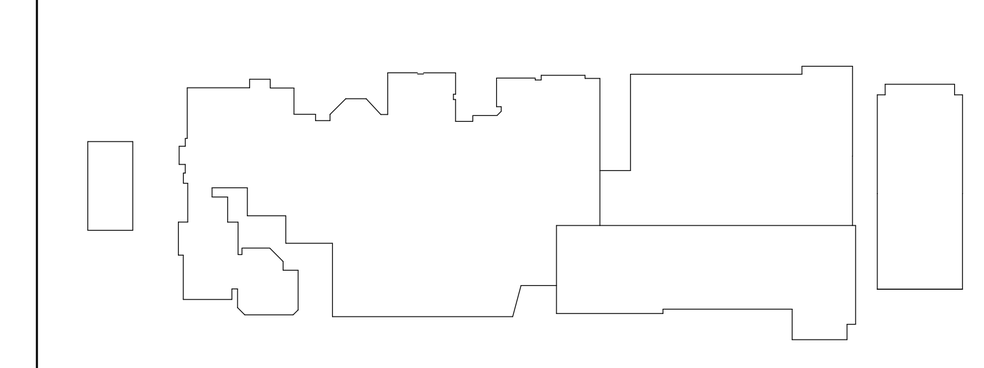
TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St,
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL.



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL NOTES

S-012

Plot Stamp:
12/5/2025 11:50:17 AM

GENERAL SUBGRADE NOTES AND TYP DETAILS
S-013
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

GENERAL FOUNDATION NOTES:

1. THE FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:
   GEOTECHNICAL CONSULTANT: UES PROFESSIONAL SOLUTIONS, LLC.
   GEOTECHNICAL REPORT NUMBER: H251673-2
   GEOTECHNICAL REPORT LOCATION: 14705 WOODFOREST BOULEVARD HOUSTON, TEXAS, 77015
   DATE OF REPORT: 11/07/2025
2. ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE USED. FOR ANY CONFLICTS BETWEEN THE GEOTECHNICAL REPORT AND THESE DRAWINGS, THE GC SHALL ISSUE A REQUEST FOR INFORMATION/CLARIFICATION.
3. GEOTECHNICAL REPORT IS AVAILABLE TO THE GENERAL CONTRACTOR UPON REQUEST TO THE OWNER. THE INFORMATION INCLUDED THEREIN MAY BE USED BY THE GENERAL CONTRACTOR FOR HIS GENERAL INFORMATION ONLY. THE ARCHITECT AND ENGINEER WILL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY OF SUCH DATA THEREIN.
4. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR BARRIER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE BARRIER/BARRIER/MEMBRANE SHALL BE INSTALLED AND LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E1643 (LATEST EDITION). PENETRATIONS SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
5. WHERE VOID FORMS ARE REQUIRED, THESE FORMS SHALL BE CAPABLE OF SUPPORTING THE WEIGHT OF THE WET CONCRETE AND REINFORCEMENT. AFTER PLACEMENT ON THE SUBGRADE, THE FORMS SHALL BE TAPED AT ALL JOINTS. 1/8" THICK HARDBOARD SHALL BE LAID OVER THE TOP OF THE VOID FORMS PRIOR TO PLACEMENT OF THE REINFORCEMENT, AT LARGE AREAS AS REQUIRED. VOID FORMS SHALL BE SECURED TO THE SUBGRADE PER MANUFACTURER'S RECOMMENDATIONS. VOID FORMS SHALL BE WAX COATED FOR MOISTURE PROTECTION, RECTANGULAR IN PROFILE, AND EQUAL TO THE WIDTH OF THE ADJACENT GRADE BEAM. SOIL RETAINERS ARE REQUIRED, GRADE BEAMS TO BE FORMED EACH SIDE.

EARTHWORK STRUCTURAL TESTING AND INSPECTIONS:

1. UNLESS NOTED OTHERWISE BY THE OWNER OR ARCHITECT, THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR DURING EARTHWORK OPERATIONS, AND KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT ON SITE DURING OPERATIONS. SERVICES PROVIDED SHALL INCLUDE:
   A. OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.
   B. OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING AND DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.
   C. VERIFY THAT THE SUBGRADE IS SCARIFIED, MOISTURE CONDITIONED, AND LIME STABILIZED (IF REQUIRED) PER SUBGRADE PREPARATION.
   D. THE SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AS INDICATED ON SUBGRADE PREPARATION.
   E. VERIFY THAT THE SELECT FILL IS PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED PER SUBGRADE PREPARATION.
   F. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE TESTS PER SUBGRADE PREPARATION.
   G. PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD PER SUBGRADE PREPARATION.
   H. OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE WATER AT ALL TIMES.
   J. OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

SUBGRADE PREPARATION:

1. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY THE PROJECT'S GEOTECHNICAL-ENGINEER-OF-RECORD (GER) PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.
2. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, TOPSOIL, VEGETATION, ORGANIC MATTER, AND OTHER DEBRIS/UNSUITABLE SURFACE MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT BEYOND THE PERIMETER OF THE BUILDING AS SHOWN IN THE SITE PREPARATION DETAIL. THE EXPOSED SUREFACE SHOULD BE SACRIFICED AN ADDITIONAL DEPTH OF 6 INCHES. PROPER SITE DRAINAGE SHOULD BE MAINTAINED DURING CONSTRUCTION SO THAT PONDING OF SURFACE RUNOFF DOES NOT OCCUR AND CAUSE CONSTRUCTION DELAYS AND/OR INHIBIT SITE ACCESS.
3. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SOILS EXHIBITING SIMILAR CLASSIFICATION, MOISTURE CONTENT, AND DENSITY AS THE ADJACENT IN-SITU SOILS. PROOFROLLING SHOULD BE PERFORMED UNDER THE DIRECT OBSERVATION OF THE GEOTECHNICAL ENGINEER OR HIS/HER REPRESENTATIVE.
4. PREPARE THE BUILDING SUBGRADE SOILS IN DIRECT ACCORDANCE WITH THE RECOMMENDATIONS LISTED IN THE "EARTHWORK" AND "FLOOR SLABS" SECTIONS OF THE GEOTECHNICAL REPORT. SUBGRADE SHALL BE SCARIFIED AND MOISTURE CONDITIONED TO A DEPTH OF SIX (6) INCHES AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +4 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER. IF WET WEATHER CONDITIONS ARE ENCOUNTERED AND WILL NOT ALLOW FOR ADEQUATE SUBGRADE COMPACTION EFFORTS, THEN THE SUBGRADE SHALL BE LIME STABILIZED WITH 6 TO 8 PERCENT BY VOLUME HYDRATED LIME IN ACCORDANCE WITH THE LIME ASSOCIATION RECOMMENDATIONS. THE OPTIMUM LIME CONTENT SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BY A LIME SERIES TEST TO DETERMINE THE REQUIRED OPTIMUM LIME CONTENT NECESSARY TO ACHIEVE A pH OF 12.4 WHILE ACHIEVING A PLASTICITY INDEX OF LESS THAN 20. PRIOR TO PROCEEDING WITH THE SELECT FILL PLACEMENT, THE LIME STABILIZED SUBGRADE SHALL BE TESTED AND APPROVED BY THE TESTING LABORATORY.
5. SURFACE SANDIER/SILTIER SOILS. THE SANDIER/SILTIER SOILS ENCOUNTERED AT AND NEAR THE GROUND SURFACE AT THIS SITE ARE VERY SUSCEPTIBLE TO CHANGES IN MOISTURE. THE PRESENCE OF SURFACE WATER DUE TO PRECIPITATION OR GROUNDWATER MAY RESULT IN A DECREASE IN THE ABILITY TO COMPACT AND WORK WITH THE SOIL. IT IS COMMON FOR THESE SOILS TO PUMP WHEN SUBJECTED TO HIGH LEVELS OF MOISTURE. IN ADDITION, THESE SOILS LOCATED AT AND NEAR THE GROUND SURFACE WILL ALLOW SURFACE WATER TO INFILTRATE UNTIL THE WATER BECOMES PERCHED ON A LESS PERMEABLE LAYER AT DEPTH. AS SUCH, CONSTRUCTION DIFFICULTIES SHOULD BE ANTICIPATED, ESPECIALLY DURING THE WET SEASON OR IMMEDIATELY AFTER RAIN EVENTS. ALTHOUGH HAVING A THIN LAYER OF NON PLASTIC OR LOW PLASTICITY SOILS OVERLYING COHESIVE SOILS IS TYPICAL OF THIS GEOLOGIC REGION, OUR EXPERIENCE SUGGESTS THAT THE LOCAL CONTRACTORS FIND THESE MATERIALS TROUBLESOME AND CAN OFTEN BE THE SOURCE OF CHANGE ORDERS, CONSTRUCTION DELAYS, AND BUDGET OVER RUNS. SOILS OF THIS TYPE ARE ESPECIALLY PRONE TO REQUIRING THE IMPLEMENTATION OF WET WEATHER/SOFT SUBGRADE RECOMMENDATIONS PROVIDED IN THIS REPORT.
6. MAINTENANCE OF SUBGRADE DURING CONSTRUCTION. WHILE THE EXPOSED SUBGRADE IS EXPECTED TO REMAIN RELATIVELY STABLE INITIALLY, UNSTABLE CONDITIONS MAY ARISE DURING GENERAL CONSTRUCTION ACTIVITIES, PARTICULARLY IF THE SOIL IS EXPOSED TO WET WEATHER CONDITIONS AND REPETITIVE CONSTRUCTION TRAFFIC. THE USE OF LIGHTER CONSTRUCTION EQUIPMENT CAN HELP MINIMIZE DISTURBANCE TO THE SUBGRADE. IN THE EVENT OF UNSTABLE CONDITIONS, STABILIZATION MEASURES WILL BE NECESSARY. AFTER GRADING IS COMPLETED, IT'S CRUCIAL TO MAINTAIN THE MOISTURE CONTENT OF THE SUBGRADE BEFORE PROCEEDING WITH PAVEMENT/BUILDING SLAB CONSTRUCTION. MINIMIZING CONSTRUCTION TRAFFIC OVER THE FINISHED SUBGRADE IS ADVISABLE. IF THE SUBGRADE BECOMES FROZEN, DESICCATED, SATURATED, OR DISTURBED, THE AFFECTED MATERIAL SHOULD EITHER BE REMOVED OR TREATED BY SCARIFICATION, MOISTURE CONDITIONING, AND RECOMPACTION BEFORE PAVEMENT/BUILDING SLAB CONSTRUCTION BEGINS. UES SHOULD BE RETAINED TO OBSERVE EARTHWORK AND TO PERFORM NECESSARY TESTS AND OBSERVATIONS DURING SUBGRADE PREPARATION.
8. SOFT AND/OR WET SURFACE SOILS MAY BE ENCOUNTERED DURING CONSTRUCTION, ESPECIALLY FOLLOWING PERIODS OF WET WEATHER. WET OR SOFT SURFACE SOIL CAN PRESENT DIFFICULTIES FOR COMPACTION AND OTHER CONSTRUCTION EQUIPMENT. IF SPECIFIED COMPACTION CANNOT BE ACHIEVED DUE TO SOFT OR WET SURFACE SOILS, ONE OF THE FOLLOWING CORRECTIVE MEASURES WILL BE REQUIRED:
   1. REMOVAL OF THE WET AND/OR SOFT SOIL AND REPLACEMENT WITH SELECT FILL,
   2. CHEMICAL TREATMENT OF THE WET AND/OR SOFT SOIL TO IMPROVE THE SUBGRADE STABILITY, OR
   3. IF ALLOWED BY THE SCHEDULE, DRYING BY NATURAL MEANS.

   CHEMICAL TREATMENT IS USUALLY THE MOST EFFECTIVE WAY TO IMPROVE SOFT AND/OR WET SURFACE SOILS. UES SHOULD BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS IF CHEMICAL TREATMENT IS PLANNED DUE TO WET AND/OR SOFT SOILS DURING CONSTRUCTION. THE TREATMENT DEPTH AND CHEMICAL REAGENT TYPE AND APPLICATION RATE DEPEND ON THE SITE CONDITION DURING CONSTRUCTION.
7. THE FINAL BUILDING PAD SHALL BE TESTED AND APPROVED BY THE PROJECT'S GER PRIOR TO INSTALLATION OF ANY FOUNDATION AND/OR SLAB-ON-GRADE RELATED CONSTRUCTION. IF THE BUILDING PAD HAS BEEN INSTALLED MORE THAN TWO MONTHS PRIOR TO THE PLACEMENT OF THE VAPOR BARRIER, PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD 96 HOURS PRIOR TO PLACEMENT OF THE WATER VAPOR BARRIER TO ENSURE THAT THE FILL MOISTURE CONTENT HAS BEEN MAINTAINED PRIOR TO CONCRETE PLACEMENT. MOISTURE CONTENTS SHALL BE TAKEN AT 12 INCH VERTICAL INTERVALS WITH A MINIMUM OF TWO TESTS PER BORING AT A RATE OF ONE (1) BORING FOR EVERY 2,500 SQUARE FEET OF PAD WITH A MAXIMUM OF TEN (10). IF THE PAD TESTS SHOW MOISTURE CONTENT OUT OF THE SPECIFIED RANGES, THE TOP SIX (6) INCHES TO ONE FOOT OF MATERIAL SHALL BE REWORKED, MOISTURE CONDITIONED AND RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +2 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL.
8. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
9. BACKFILL AGAINST THE OUTSIDE FACE OF THE GRADE BEAMS SHOULD CONSIST OF SELECT FILL USED TO PREPARE THE BUILDING PAD. THE SELECT FILL SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD EFFORT (ASTM D 698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.
10. A MINIMUM OF 5'-6" OF SELECT FILL MATERIAL IS REQUIRED UNDER THE FLOOR SLAB, AND SHALL EXTEND A MINIMUM OF 10'-0" BEYOND THE BUILDING PERIMETER. THE FINAL EXTERIOR GRADE ADJACENT TO THE STRUCTURE SHOULD BE SLOPED TO PROMOTE EFFECTIVE DRAINAGE AWAY FROM THE STRUCTURE. EXISTING FILL WAS ENCOUNTERED IN ALL BORING LOCATIONS B-06 THROUGH B-18, AND B-19. EXISTING FILL EXTENDED TO A DEPTH OF UP TO ABOUT 2 TO 4-FEET BGS. IT IS WORTH NOTING THAT EXISTING FILL MAY ALSO BE PRESENT, POTENTIALLY AT GREATER DEPTHS, IN OTHER PARTS OF THE SITE. ACCURATELY DELINEATING FILL SOILS, ESPECIALLY THOSE RESEMBLING NATIVE SOILS, BASED ON DISCRETE TEST BOREHOLES IS CHALLENGING, AS SUCH, THE RECORDED FILL DEPTHS SHOULD BE CONSIDERED AS ESTIMATES AND MAY SLIGHTLY DEVIATE FROM THE ACTUAL FILL DEPTHS. ALTHOUGH NOT ENCOUNTERED IN THE BORINGS FOR THIS PROJECT, UNCONTROLLED FILLS MAY CONTAIN TRASH, DEBRIS, CONCRETE RUBBLE, CONSTRUCTION DEBRIS, BOULDERS, AND OTHER UNSUITABLE MATERIALS. IN PAVEMENT AREAS, THE EXISTING FILL AT THE PAVEMENT SUBGRADE LEVEL SHOULD BE PROOF-ROLLED WITH A HEAVY ROLLER TO DETECT POSSIBLE WEAK AREAS. ANY WEAK SOILS IDENTIFIED AS PART OF THE PROOF-ROLLING PROCESS SHOULD BE REMOVED AND REPLACED WITH WELL-COMPACTED SOIL AS PER THE SOIL REPORT.
11. EXERCISE CARE IN PLACEMENT AND COMPACTION OF FILL IN ALL LEAVE-OUTS. ALL FILL SHALL BE PLACED IN LOOSE LIFTS AND COMPACTED AT ELEVATED MOISTURE CONTENT AS DETAILED IN THE PROJECT 'S GEOTECHNICAL REPORT. ANY REINFORCING SHALL BE APPROPRIATELY MANIPULATED TO ENSURE PROPER COMPACTION. VAPOR BARRIER SHALL BE SUITABLY PLACED AND LAPPED.

SITE DRAINAGE:

ETV

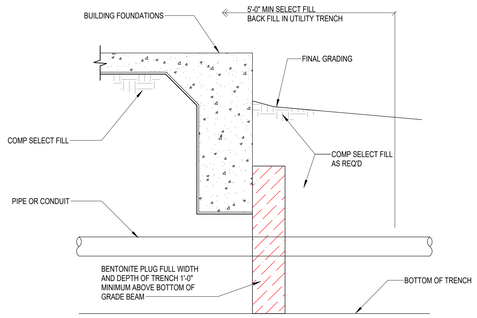
1. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE FOUNDATION.
2. WATER FROM ROOF DRAINS AND DOWNSPOUTS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING.
3. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
4. EVERY ATTEMPT SHOULD BE MADE TO LIMIT THE EXTREME WETTING OR DRYING OF THE SUBSURFACE SOILS BECAUSE SWELLING AND SHRINKAGE OF THESE SOILS WILL RESULT. STANDARD CONSTRUCTION PRACTICES OF PROVIDING GOOD SURFACE WATER DRAINAGE SHOULD BE USED. A POSITIVE SLOPE OF THE GROUND AWAY FROM ANY FOUNDATION SHOULD BE PROVIDED. DITCHES OR SWALES SHOULD BE PROVIDED TO CARRY THE RUN-OFF WATER BOTH DURING AND AFTER CONSTRUCTION. STORMWATER RUNOFF SHOULD BE COLLECTED BY GUTTERS AND DOWNSPOUTS AND SHOULD DISCHARGE AWAY FROM THE BUILDINGS.

   ROOT SYSTEMS FROM TREES AND SHRUBS CAN DRAW A SUBSTANTIAL AMOUNT OF WATER FROM THE CLAY SOIL AT THIS SITE, CAUSING THE CLAYS TO DRY AND SHRINK. THIS COULD CAUSE SETTLEMENT BENEATH GRADE-SUPPORTED SLABS SUCH AS FLOORS, WALKS AND PAVING. TREES AND LARGE BUSHES SHOULD BE LOCATED A DISTANCE EQUAL TO AT LEAST ONE-HALF THEIR ANTICIPATED MATURE HEIGHT AWAY FROM GRADE SLABS.

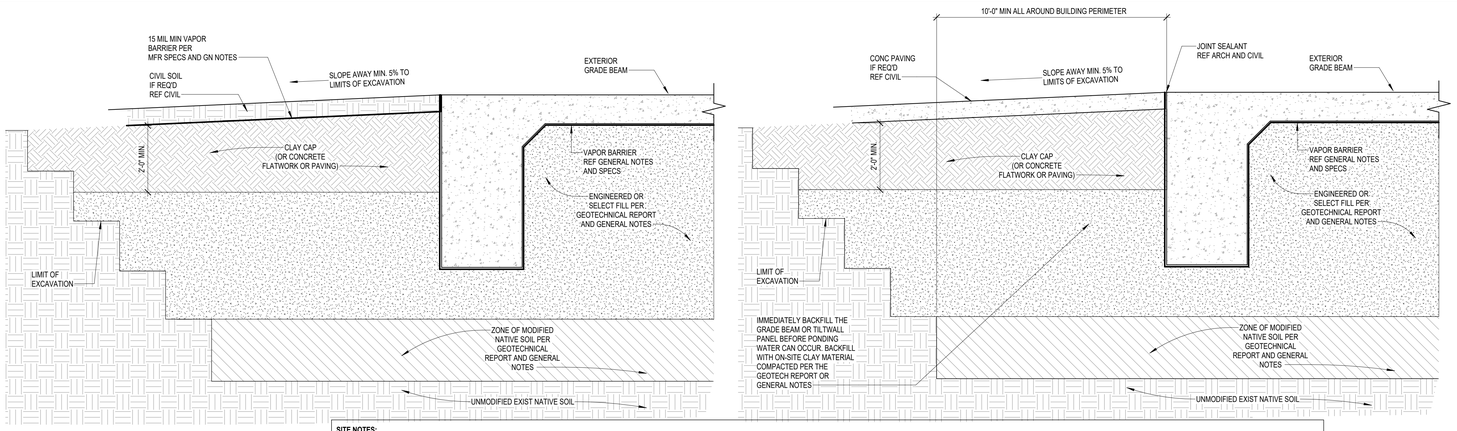
   LAWN AREAS SHOULD BE WATERED MODERATELY, WITHOUT ALLOWING THE CLAY SOIL TO BECOME TOO DRY OR TOO WET.

NOTES:

1. PIPES OR CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL. ALL PENETRATIONS TO THE VAPOR BARRIER SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATIONS
2. BACKFILL DIRECTLY AROUND PIPE SHALL BE CEMENT STABILIZED SAND (1-SACK MIX). THE REMAINDER OF THE TRENCH INFILL MAY BE SELECT FILL ONLY IF IT CAN BE COMPACTED AND TESTED BY THE TESTING LAB; OTHERWISE, THE GC SHALL USE CEMENT STABILIZED SAND



1 PIPE/CONDUIT ENTRY DETAIL
NO SCALE

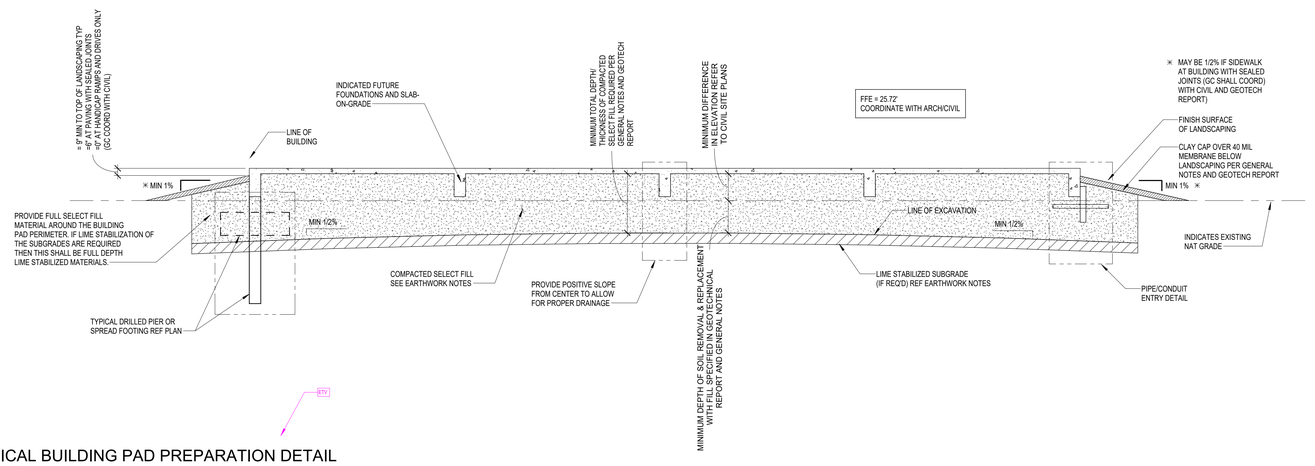


SITE NOTES:

1. ROOF RUNOFF AND SURFACE DRAINAGE SHALL BE COLLECTED AND DISCHARGED AWAY FROM THE STRUCTURES TO PREVENT WETTING OF THE FOUNDATION SOILS. ROOF GUTTERS SHALL BE INSTALLED AND CONNECTED TO DOWNSPOUTS AND PIPES DIRECTING ROOF RUNOFF AT LEAST 10 FEET AWAY FROM THE BUILDINGS, OR DISCHARGED ON TO POSITIVELY SLOPED IMPERVIOUS FLATWORK SUCH AS SIDEWALKS AND /OR PAVING AREAS.
2. SPRINKLER MAINS AND SPRAY HEADS SHALL BE LOCATED AT LEAST 5 FEET AWAY FROM THE BUILDING SUCH THAT THEY CANNOT BECOME A POTENTIAL POINT SOURCE OF WATER DIRECTLY ADJACENT TO THE BUILDING. WATERING OF VEGETATION SHALL BE PERFORMED IN A TIMELY AND CONTROLLED MANNER AND PROLONGED WATERING SHALL BE AVOIDED. LANDSCAPED IRRIGATION ADJACENT TO THE FOUNDATION STRUCTURE SHALL BE MINIMIZED OR ELIMINATED. SPECIAL CARE SHALL BE TAKEN SUCH THAT UNDERGROUND UTILITIES DO NOT DEVELOP LEAKS WITH TIME.

3 TYPICAL EXTERIOR GB BACKFILL DETAIL
NO SCALE

ETV



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4 TYPICAL BUILDING PAD PREPARATION DETAIL
NO SCALE

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TX REG: NO. F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

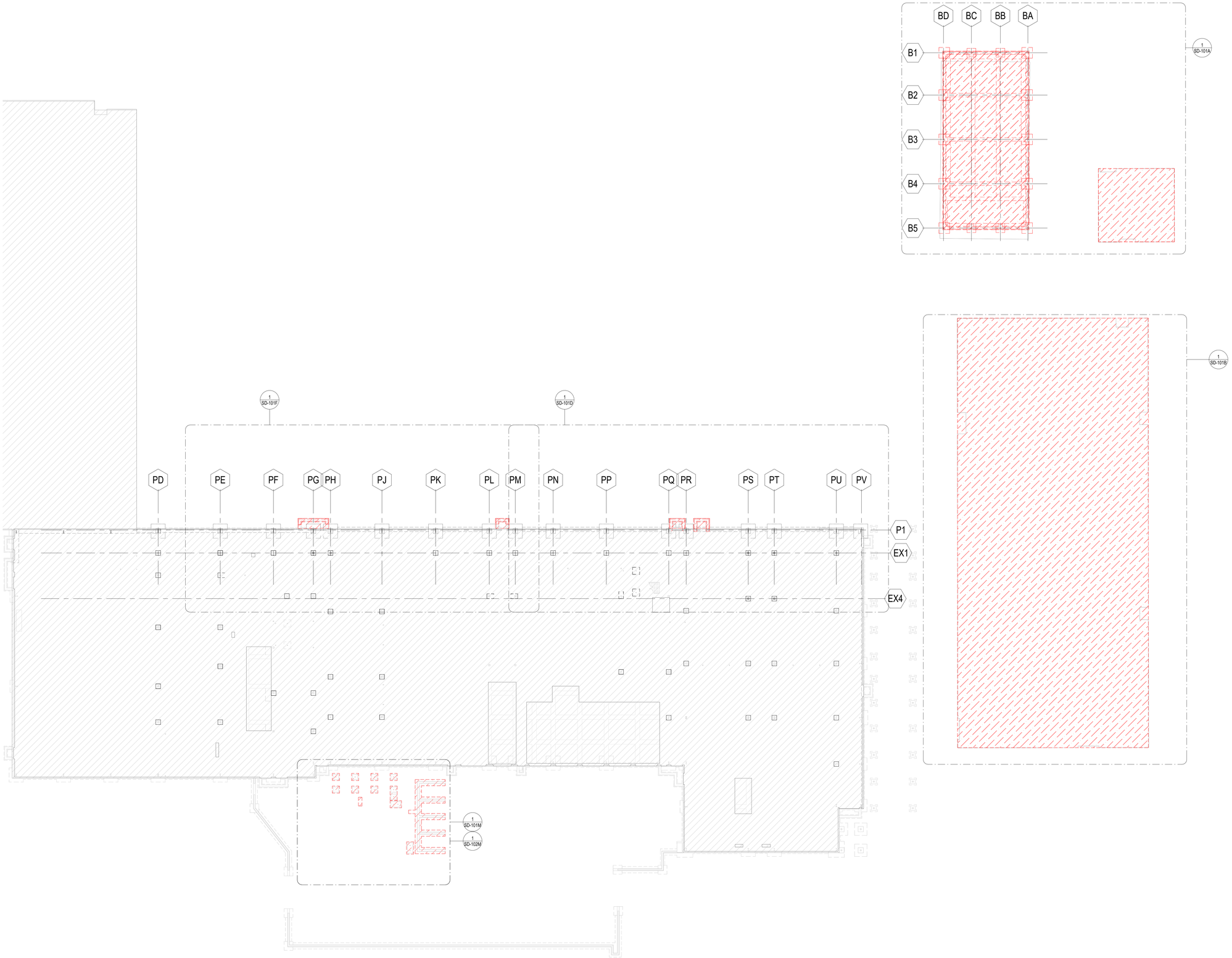
GENERAL SUBGRADE NOTES AND TYP DETAILS

S-013

Plot Stamp:
12/5/2025 11:50:18 AM

COMPOSITE DEMO PLAN
SD-101
FOR BLUEBEAM LABELING/OCR:

COMPOSITE PLAN NOTE:
REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE FOUNDATION DEMO PLAN
3/64" = 1'-0"

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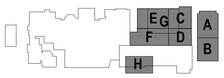

KEY PLAN
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CHECKED BY: SI
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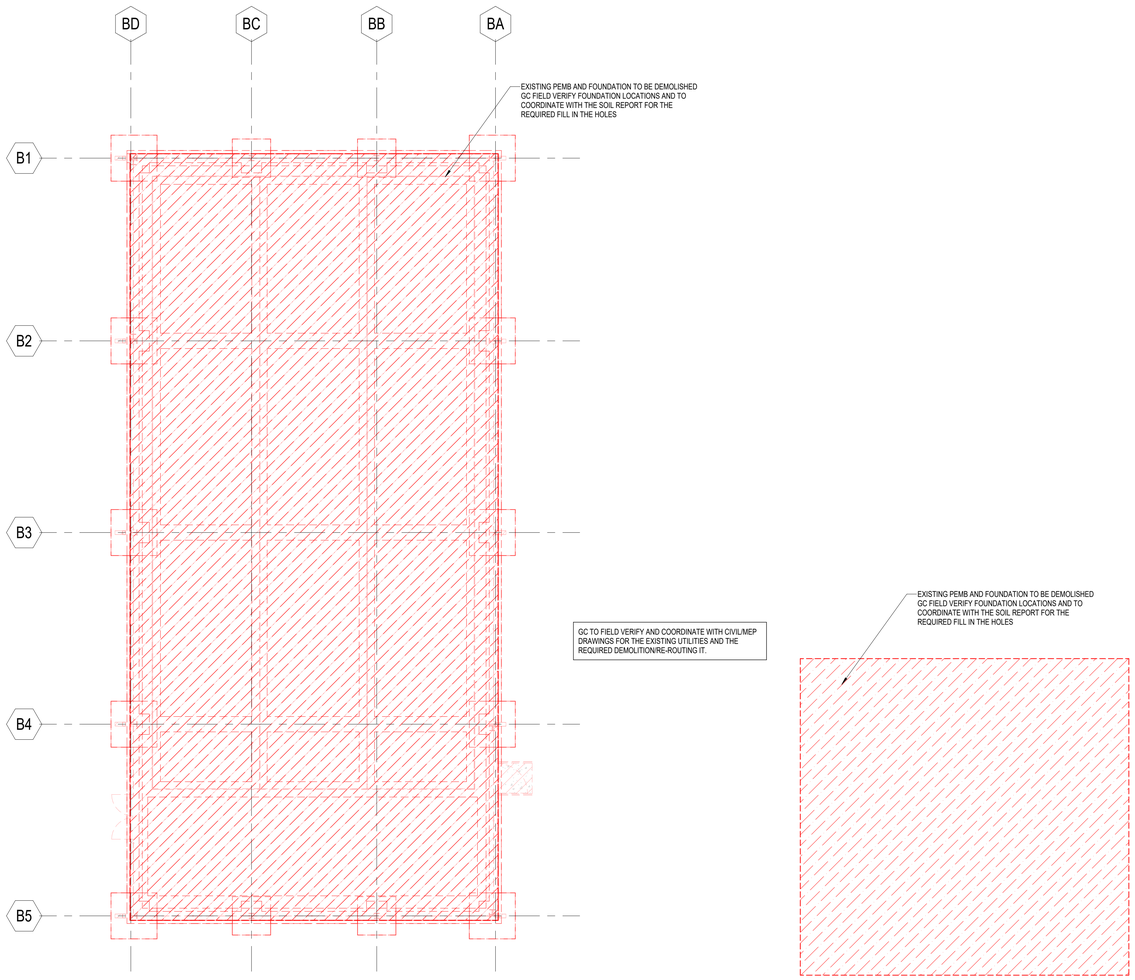
COMPOSITE DEMO PLAN

SD-101

Plot Stamp:
12/5/2025 11:50:19 AM

0"
1"

FOUNDATION DEMO PLAN - AREA A
SD-101A
FOR BLUEBEAM LABELING/DOOR:



GC TO FIELD VERIFY AND COORDINATE WITH CIVIL/MEP DRAWINGS FOR THE EXISTING UTILITIES AND THE REQUIRED DEMOLITION/RE-ROUTING IT.

1 FOUNDATION DEMO PLAN - AREA A
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.
13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS,FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONSOF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
7. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION SUBCONTRACTOR WHO MEETS THE FOLLOWING REQUIREMENTS:
   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
8. THE STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION AND TEMPORARY SHORINGDELEGATED DESIGN ENGINEER WHO IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND SPECIALIZES IN DEMOLITION AND TEMPORARY STRUCTURES. THE DELEGATED DESIGN ENGINEER IS RESPONSIBLE FOR THE FOLLOWING:
   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OFWORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
   A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.
10. THE GENERAL CONTRACTOR SHALL PROVIDE A "TWO-WEEK LOOK AHEAD" TO INDICATE UPCOMING AREAS WHERE DEMOLITION WORK IS SCHEDULED TO TAKE PLACE, SO ALL PARTIES ARE AWARE OF TIMELINE AND ANY COORDINATION WITH ARCHITECT AND CONSULTANTS CAN TAKE PLACE. THE HIGHLIGHTED PLAN SHOULD BE COMPLETED BY THE GENERAL CONTRACTOR (IN CONJUNCTION WITH THEIR DEMOLITION SUBCONTRACTOR) AND BE AVAILABLE FOR DISCUSSION AT THE WEEKLY OAC MEETING.

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Galena Park ISD



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

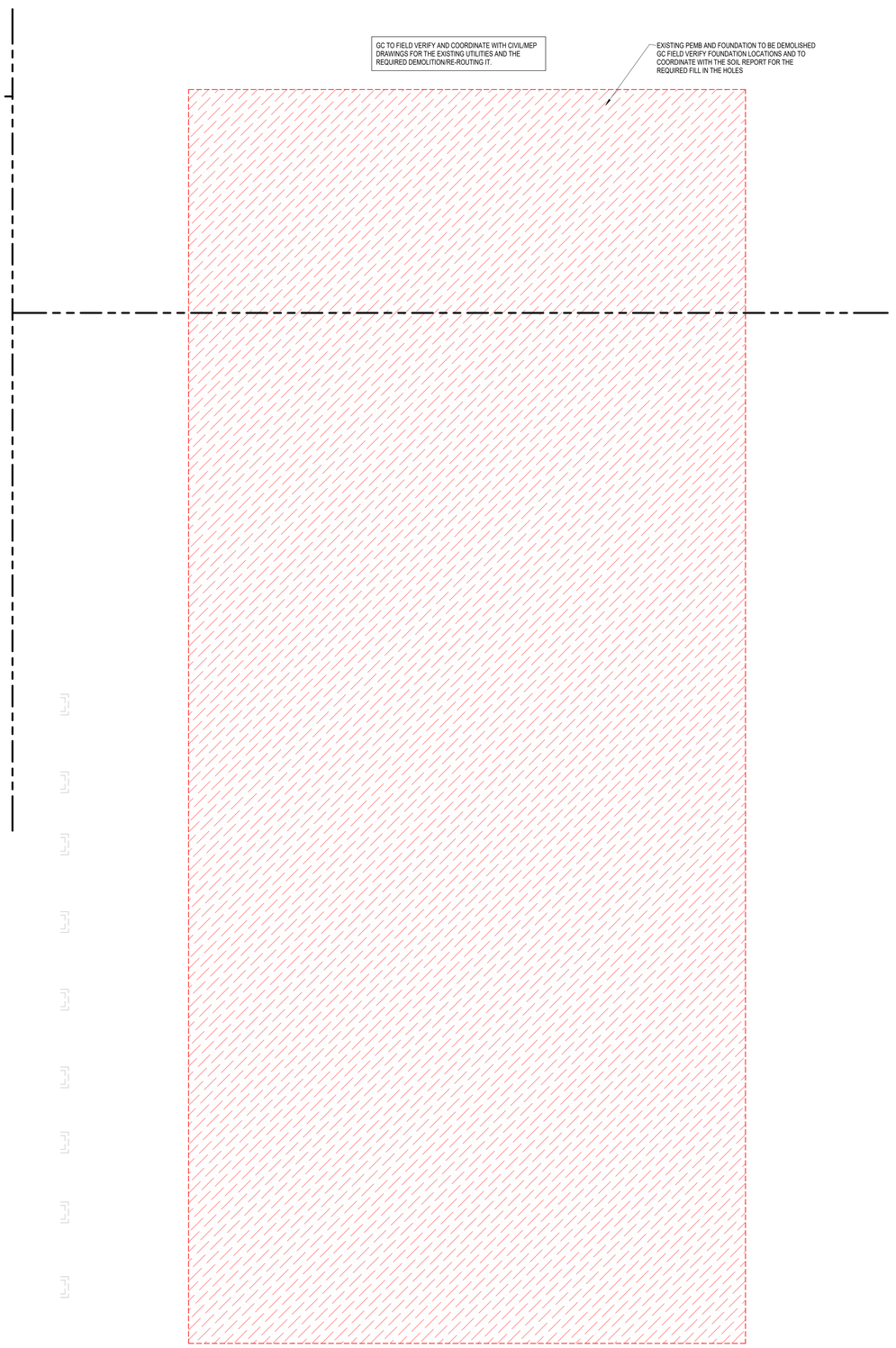
FOUNDATION DEMO PLAN - AREA A

SD-101A

Plot Stamp:
12/5/2025 11:50:21 AM

0"
1"

FOUNDATION DEMO PLAN - AREA B
SD-101B
FOR BLUEBEAM LABELING/DOOR:



1 FOUNDATION DEMO PLAN - AREA B
3/32" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
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5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
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   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
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   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TX: REG NO. F-23612

Galena Park ISD



KEY PLAN
NORTH: PLAN = TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DEMO PLAN - AREA B

SD-101B

Plot Stamp:
12/5/2025 11:50:22 AM

0"

1"

FOUNDATION DEMO PLAN - AREA D
SD-101D

FOR BLUEBEAM LABELING/DOOR:

EXISTING STRUCTURE AND CONDITIONS:

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3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.

4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.

6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.

7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.

8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
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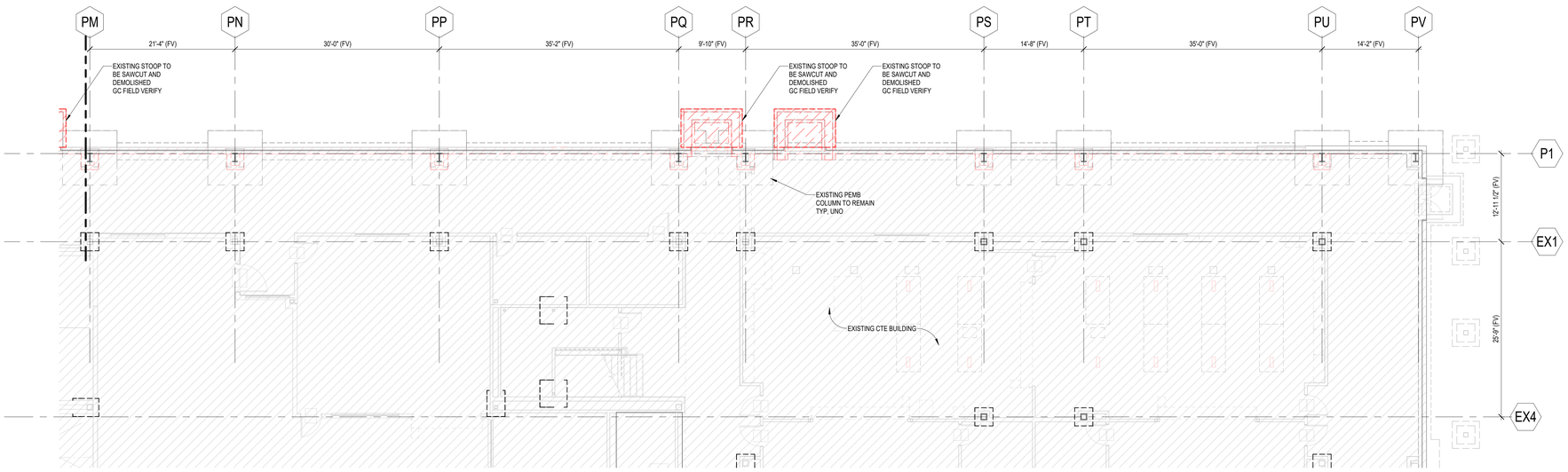

1 FOUNDATION DEMO PLAN - AREA D
1/8" = 1'-0"

Plot Stamp:
12/5/2025 11:50:23 AM

PBK

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HOUSTON, TX
713-865-0008

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ISSUE FOR PROPOSAL

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PROFESSIONAL SERVICES
www.kubalaengineers.com
TX REG: No F-23612

Galena Park ISD
GP
RELENTLESS IN ALL FOR ALL

D

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

DRAWN BY: CML

FOUNDATION DEMO PLAN - AREA D

SD-101D

0"

1"

FOUNDATION DEMO PLAN - AREA F
SD-101F
FOR BLUEBEAM LABELING/DOOR:

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   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
   A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.
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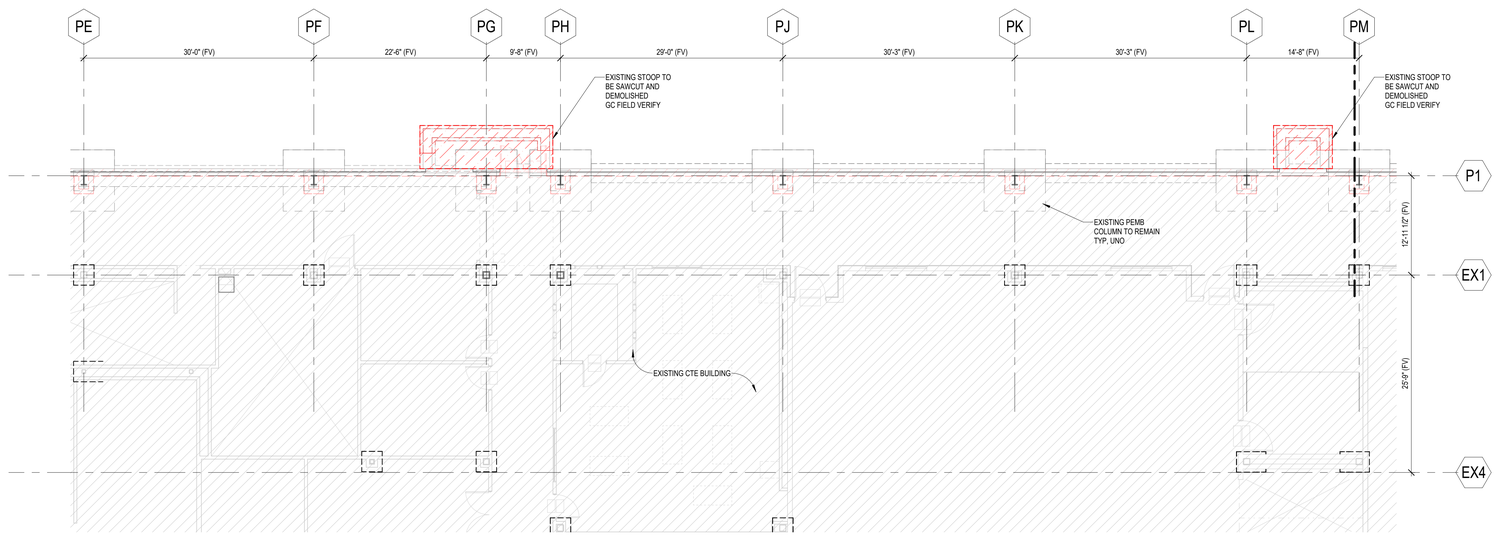

1 FOUNDATION DEMO PLAN - AREA F
1/8" = 1'-0"

PBK

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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

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ISSUE FOR PROPOSAL

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2500 West Loop S, Suite 475
Houston, Texas 77027
www.kubalaengineers.com
TX REG'N NO. F-23612

Galena Park ISD

F

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025

Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

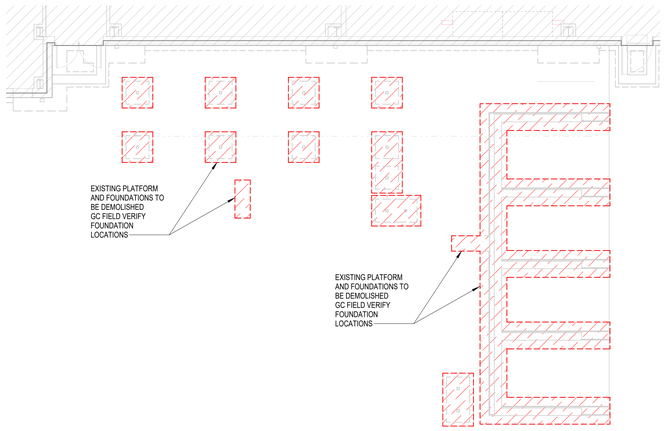
FOUNDATION DEMO PLAN - AREA F

SD-101F

Plot Stamp:
12/5/2025 11:50:25 AM

0"
1"

FOUNDATION DEMO PLAN - EXISTING MECH YARD
SD-101M
FOR BLUEBEAM LABELING/DOOR:



1 FOUNDATION DEMO PLAN - CENTRAL PLANT
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.
13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS,FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONSOF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
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   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
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Galena Park, TX 77547

ISSUE FOR PROPOSAL

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www.kubalaengineers.com
TX REG: No F-23612





KEY PLAN
NORTH: PLAN TRUE



12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DEMO PLAN - EXISTING MECH YARD

SD-101M

Plot Stamp:
12/5/2025 11:50:26 AM

0"
1"

SECOND FLOOR DEMO PLAN - AREA D
SD-102D
FOR BLUEBEAM LABELING/DOOR:

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
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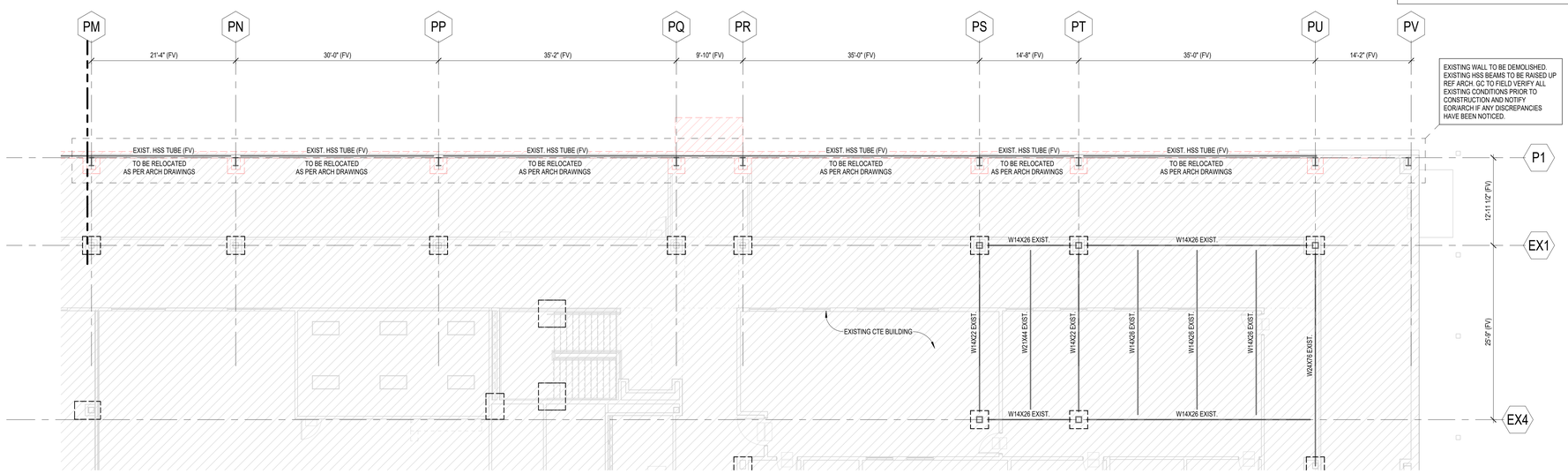

1 SECOND FLOOR DEMO PLAN - AREA D
1/8" = 1'-0"

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713-965-0008

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ISSUE FOR PROPOSAL

Kubala ENGINEERS
(281) 558-8700
www.kubalaengineers.com
TX REG: No. F-23612

Galena Park ISD
EXCELLENCE IN ALL FOR ALL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR DEMO PLAN - AREA D

SD-102D

Plot Stamp:
12/5/2025 11:50:27 AM

0"

1"

SECOND FLOOR DEMO PLAN - AREA F

SD-102F

FOR BLUEBEAM LABELING/DOOR:

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.

2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.

3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.

4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.

6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.

7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.

8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.

9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.

10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.

11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.

12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.

13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.

2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**

3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.

4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS,FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONSOF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.

5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.

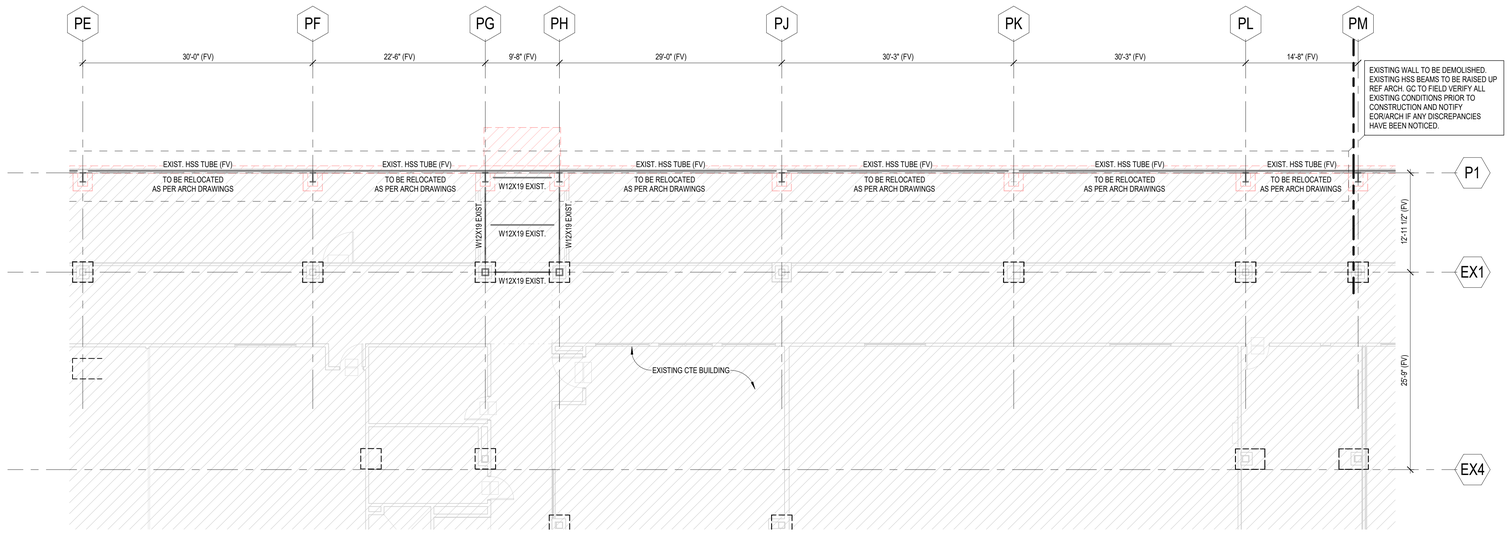
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

7. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION SUBCONTRACTOR WHO MEETS THE FOLLOWING REQUIREMENTS:
   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.

8. THE STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION AND TEMPORARY SHORINGDELEGATED DESIGN ENGINEER WHO IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND SPECIALIZES IN DEMOLITION AND TEMPORARY STRUCTURES. THE DELEGATED DESIGN ENGINEER IS RESPONSIBLE FOR THE FOLLOWING:
   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OFWORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.

9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
   A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.

10. THE GENERAL CONTRACTOR SHALL PROVIDE A "TWO-WEEK LOOK AHEAD" TO INDICATE UPCOMING AREAS WHERE DEMOLITION WORK IS SCHEDULED TO TAKE PLACE, SO ALL PARTIES ARE AWARE OF TIMELINE AND ANY COORDINATION WITH ARCHITECT AND CONSULTANTS CAN TAKE PLACE. THE HIGHLIGHTED PLAN SHOULD BE COMPLETED BY THE GENERAL CONTRACTOR (IN CONJUNCTION WITH THEIR DEMOLITION SUBCONTRACTOR) AND BE AVAILABLE FOR DISCUSSION AT THE WEEKLY OAC MEETING.



1 SECOND FLOOR DEMO PLAN - AREA F
1/8" = 1'-0"

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713-865-0008

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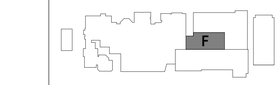
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

DRAWN BY: CML

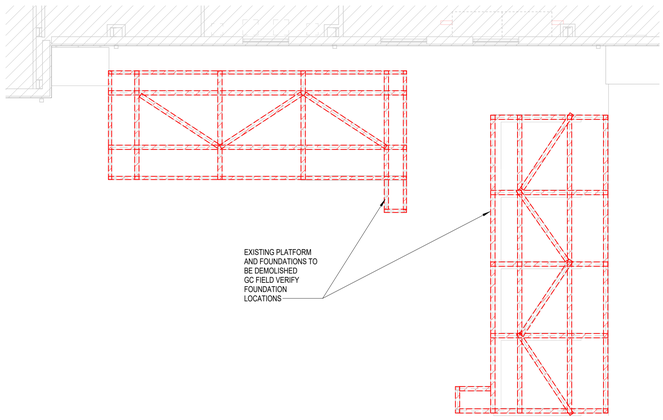
SECOND FLOOR DEMO PLAN - AREA F

SD-102F

Plot Stamp:
12/5/2025 11:50:28 AM

0"
1"

SECOND FLOOR DEMO PLAN - EXISTING MECH YARD
SD-102M
FOR BLUEBEAM LABELING/DOOR:



1 SECOND FLOOR DEMO PLAN - CENTRAL PLANT
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
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3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
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11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
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13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
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   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
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   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OFWORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
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www.pbk.com
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HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBPELS Firm No. F-23612
TX: 832.651.1427 | 2812



KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR DEMO PLAN - EXISTING MECH YARD

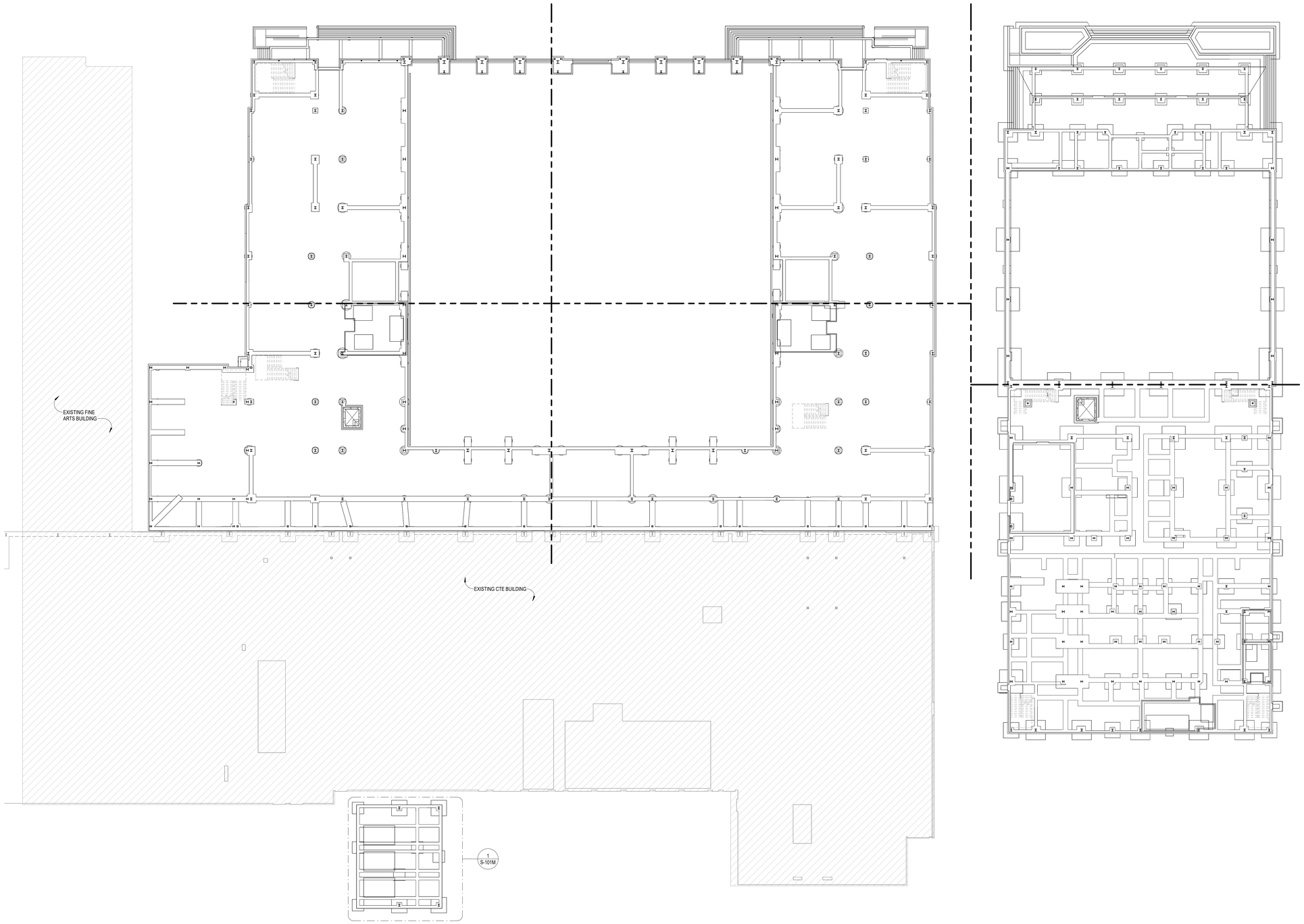
SD-102M

Plot Stamp:
12/5/2025 11:50:29 AM

COMPOSITE FOUNDATION PLAN
S-101
FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:
REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE FOUNDATION PLAN
3/64" = 1'-0"

PBK

www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

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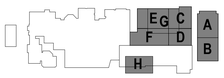


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

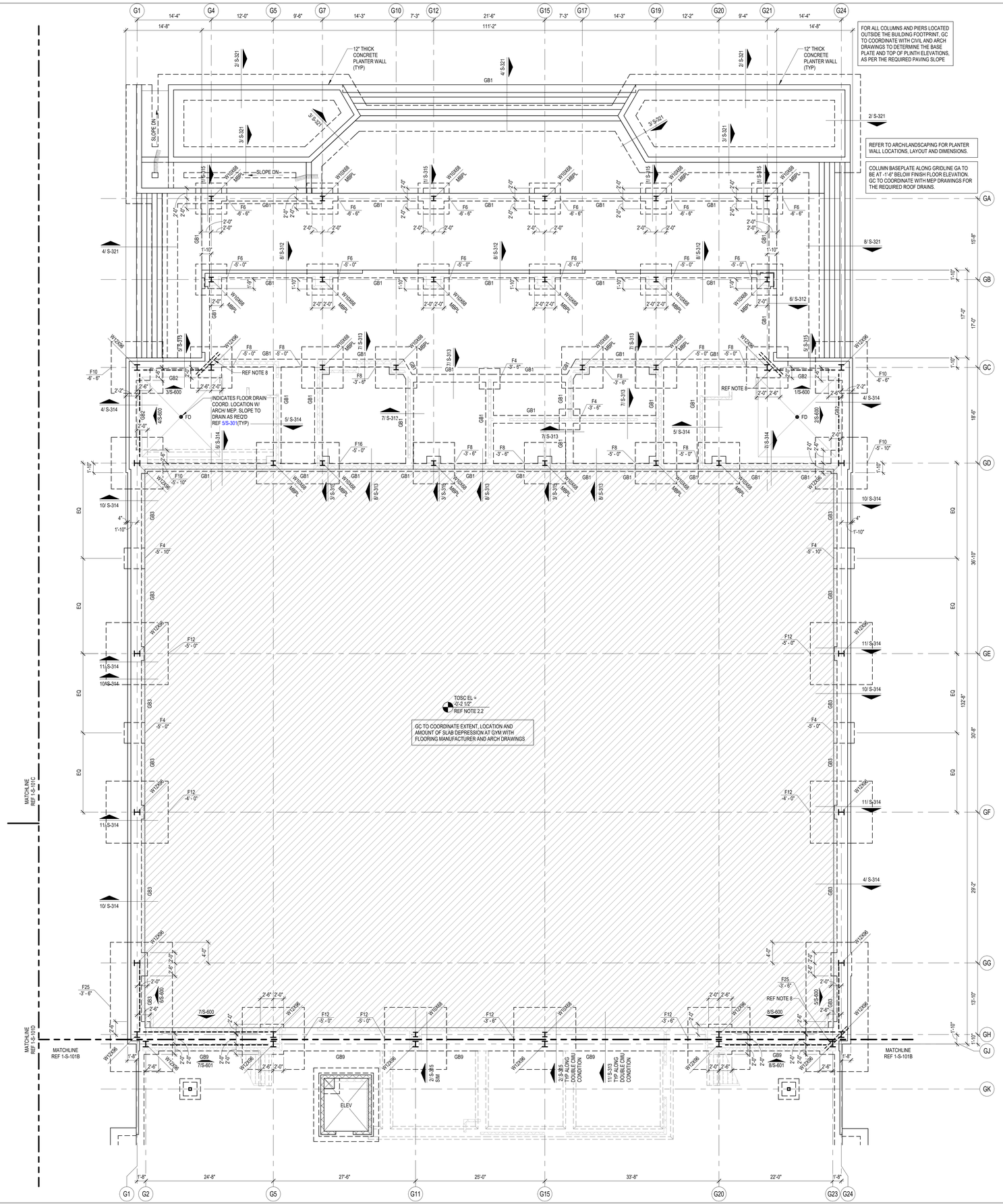
COMPOSITE FOUNDATION PLAN

S-101

Plot Stamp:
12/5/2025 11:50:30 AM

FOUNDATION PLAN - AREA A
S-101A
FOR BLUEBEAM LABELING/DOOR:

0"
1"



FOR ALL COLUMNS AND PIERS LOCATED OUTSIDE THE BUILDING FOOTPRINT, GC TO COORDINATE WITH CIVIL AND ARCH DRAWINGS TO DETERMINE THE BASE PLATE AND TOP OF PLINTH ELEVATIONS, AS PER THE REQUIRED PAVING SLOPE

FOR ALL PIERS SUPPORTING THE LANDSCAPING WALLS, RAMPS AND STAIRS OUTSIDE THE BUILDING FOOTPRINT TO LIMIT THE DEPTH TO 35'-0" BELOW EXISTING GRADE.

REFER TO ARCH/LANDSCAPING FOR PLANTER WALL LOCATIONS, LAYOUT AND DIMENSIONS.

COLUMN BASEPLATE ALONG GRIDLINE GA TO BE AT -1'-6" BELOW FINISH FLOOR ELEVATION. GC TO COORDINATE WITH MEP DRAWINGS FOR THE REQUIRED ROOF DRAINS.

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

2.1 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@15" OC EACH WAY, ON 2 1/2" CHAIRS FOR #4 BARS SPACED AT 30" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.2 6" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301 .

2.3 5 1/2" THICK CONCRETE SLAB ON GRADE AT THE POLISHED CONC AREAS REINFORCED WITH #4@14" OC EACH WAY ON 3" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

3.1 TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.

3.2 TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" UON.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" UON.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" UON.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS

11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.

12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES AND FLOOR DRAINS. REF 10/S-301 FOR TRENCH DETAIL AND REF 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313 TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS/FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS/FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS/FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

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19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DRAWINGS.

20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

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22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311); HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB. ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"

PBK
TX FIRM: BR 1608
HOUSTON, TX
713-865-6008
www.pbk.com

Kubala ENGINEERS
www.kubalaengineers.com
TX: 4625 Hwy 7 #2612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED
ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

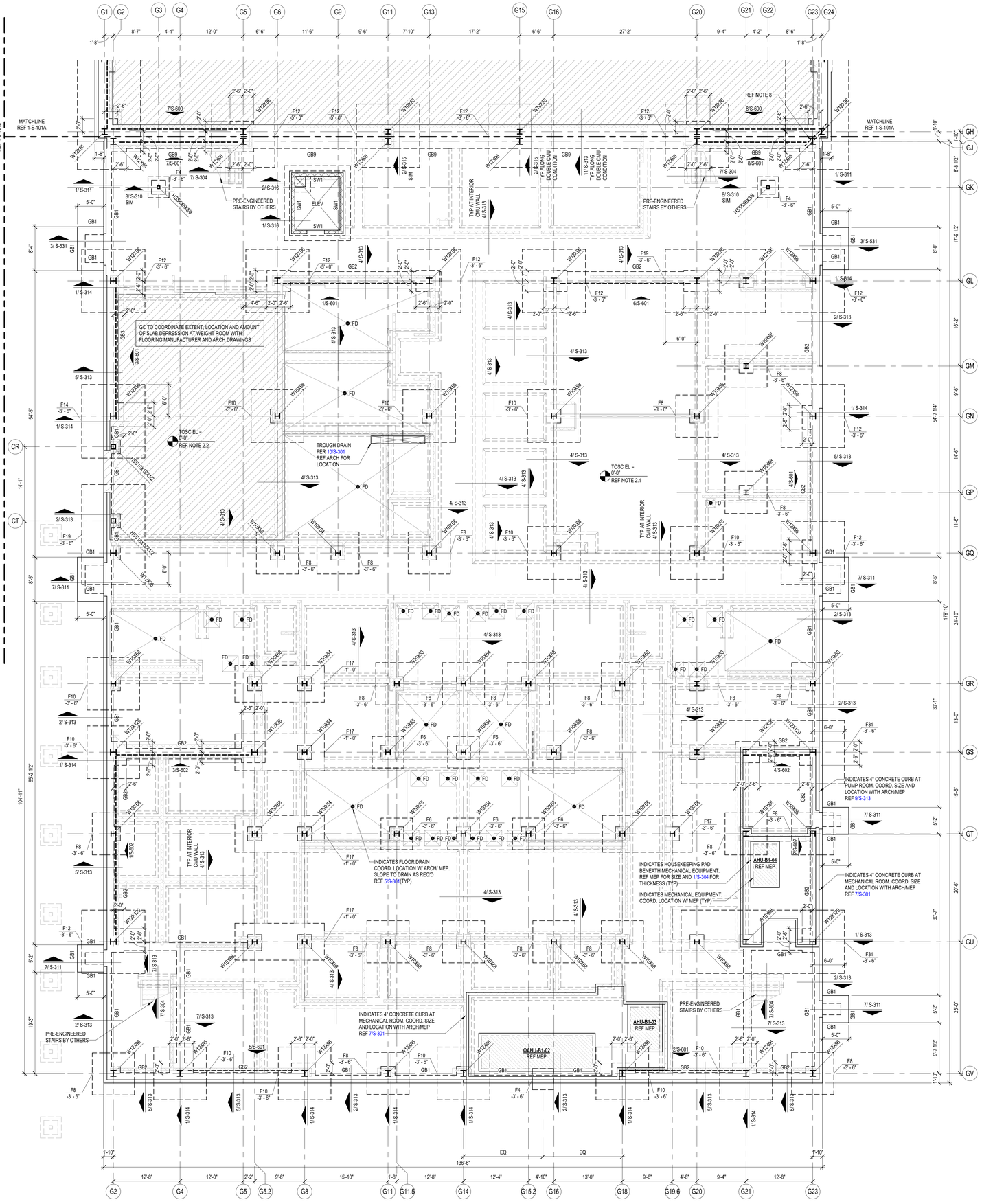
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION PLAN - AREA A

S-101A

Plot Stamp:
12/5/2025 11:50:34 AM

FOUNDATION PLAN - AREA B
S-101B
FOR BLUEBEAM LABELING/DOOR:



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1 FOUNDATION PLAN - AREA B
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713.865.6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBPLS Firm No. 20812
TX: 4425 Hot 7 (281)

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

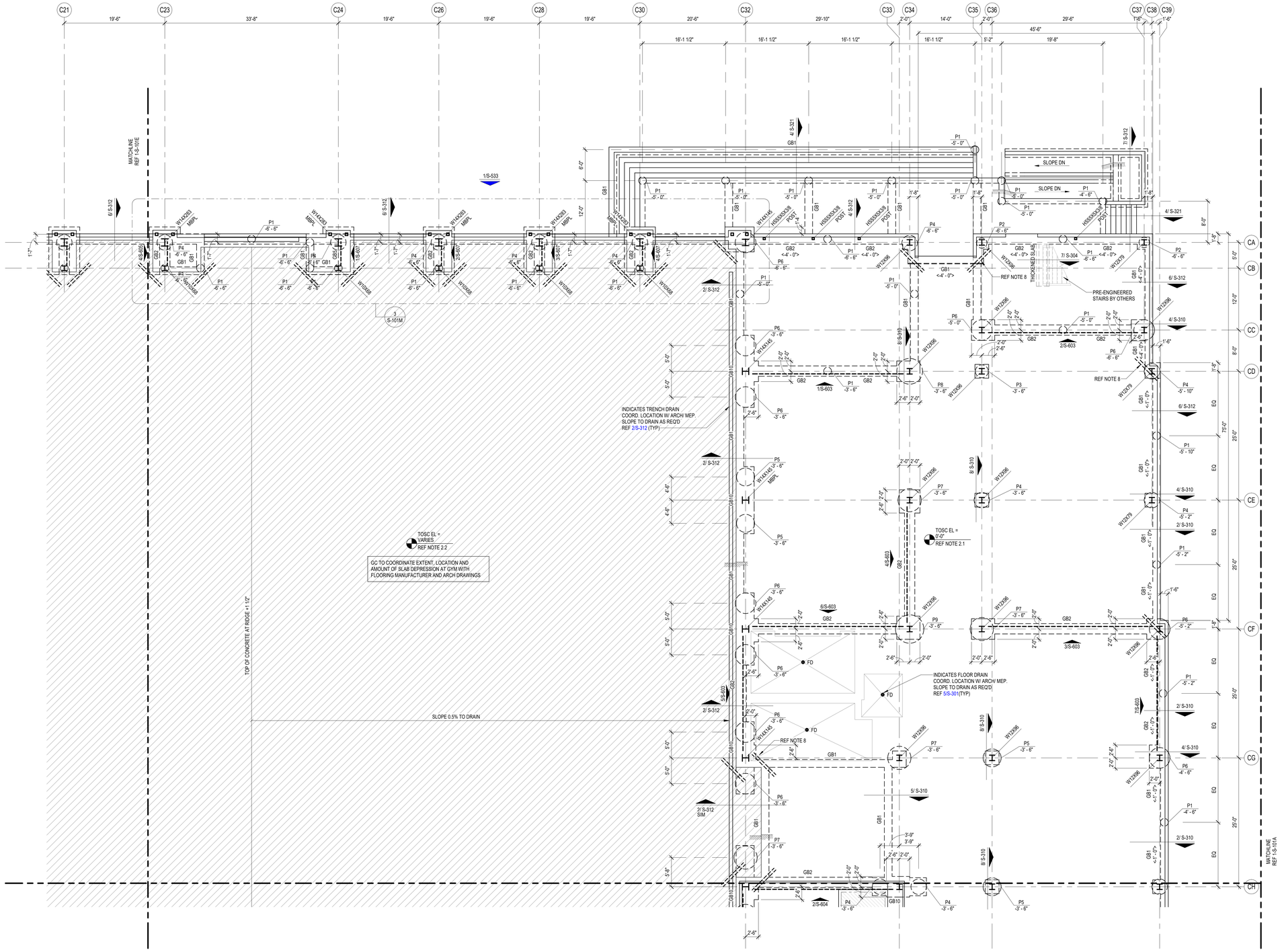
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION PLAN - AREA B

S-101B

Plot Stamp:
12/5/2025 11:50:39 AM

FOUNDATION PLAN - AREA C
S-101C
FOR BLUEBEAM LABELING/DOOR:



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Galena Park ISD

KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
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12/05/2025
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CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

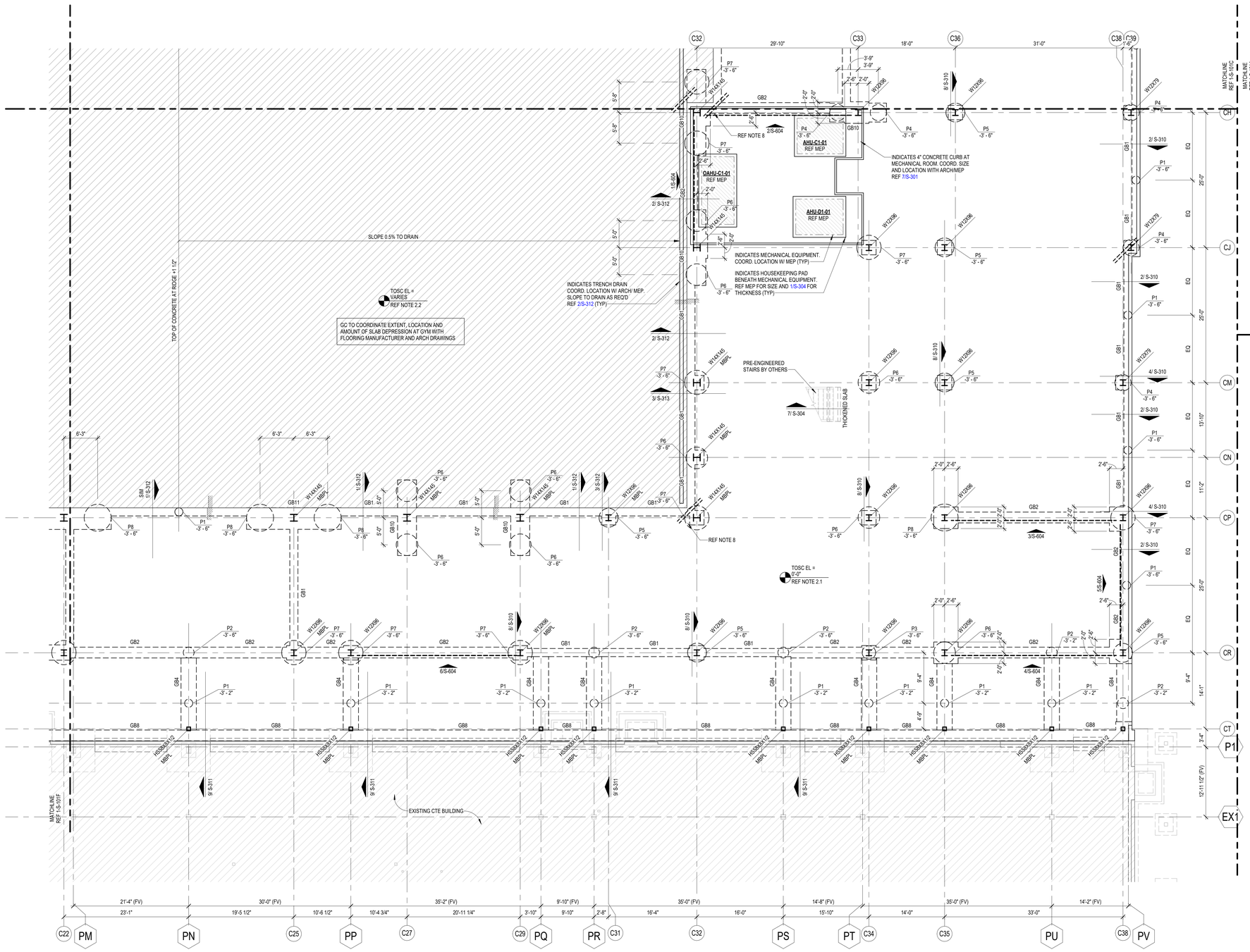
FOUNDATION PLAN - AREA C

S-101C

Plot Stamp:
12/5/2025 11:50:43 AM

FOUNDATION PLAN - AREA D
S-101D
FOR BLUEBEAM LABELING/OCR:

0"
1"



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FOUNDATION PLAN NOTES

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2.1 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@15" OC EACH WAY, ON 2 1/2" CHAIRS FOR #4 BARS SPACED AT 30" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.2 6" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.3 5 1/2" THICK CONCRETE SLAB ON GRADE AT THE POLISHED CONC AREAS REINFORCED WITH #4@14" OC EACH WAY ON 3" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

3.1 TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.

3.2 TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" UON.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" UON.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" UON.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS

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13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS. REF 10/S-301 FOR TRENCH DETAIL AND REF 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313 TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS/FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
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   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS/FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS/FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

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19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DRAWINGS.

20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

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22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311). HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB. ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

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TBPE No. F-23612
TX REG. No. T-29512

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

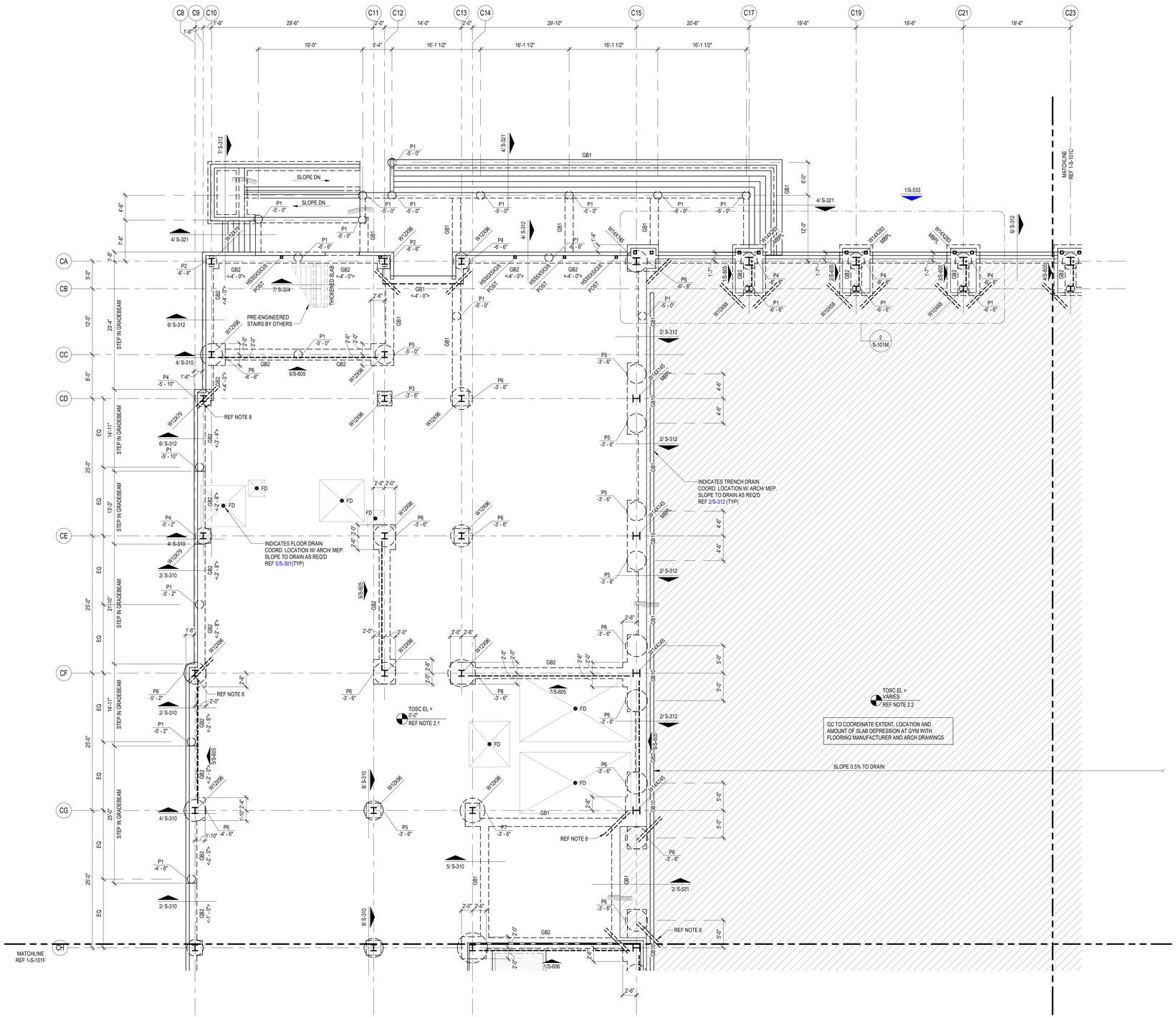
FOUNDATION PLAN - AREA D

S-101D

Plot Stamp:
12/5/2025 11:50:44 AM

FOUNDATION PLAN - AREA E
S-101E
FOR BLUEBEAM LABELINGDOOR:

0"
1"



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1 FOUNDATION PLAN - AREA E
1/8" = 1'-0"

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TX REG NO F-23612

Galena Park ISD
BUILDING FOR TOMORROW

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

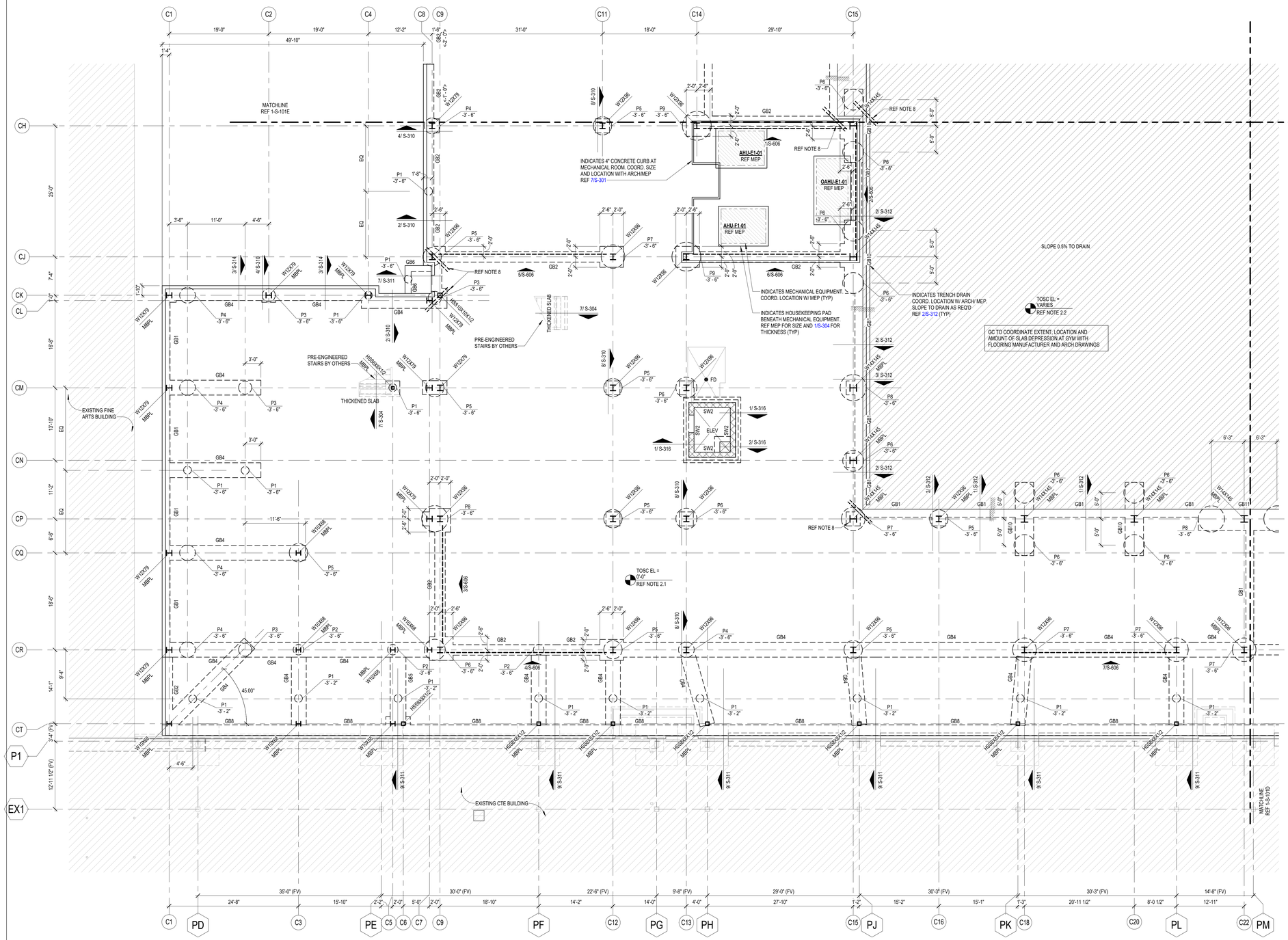
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION PLAN - AREA E

S-101E

Plot Stamp:
12/5/2025 11:50:47 AM

FOUNDATION PLAN - AREA F
S-101F
FOR BLUEBEAM LABEL/INDOOR:



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ISSUE FOR PROPOSAL

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F

KEY PLAN
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

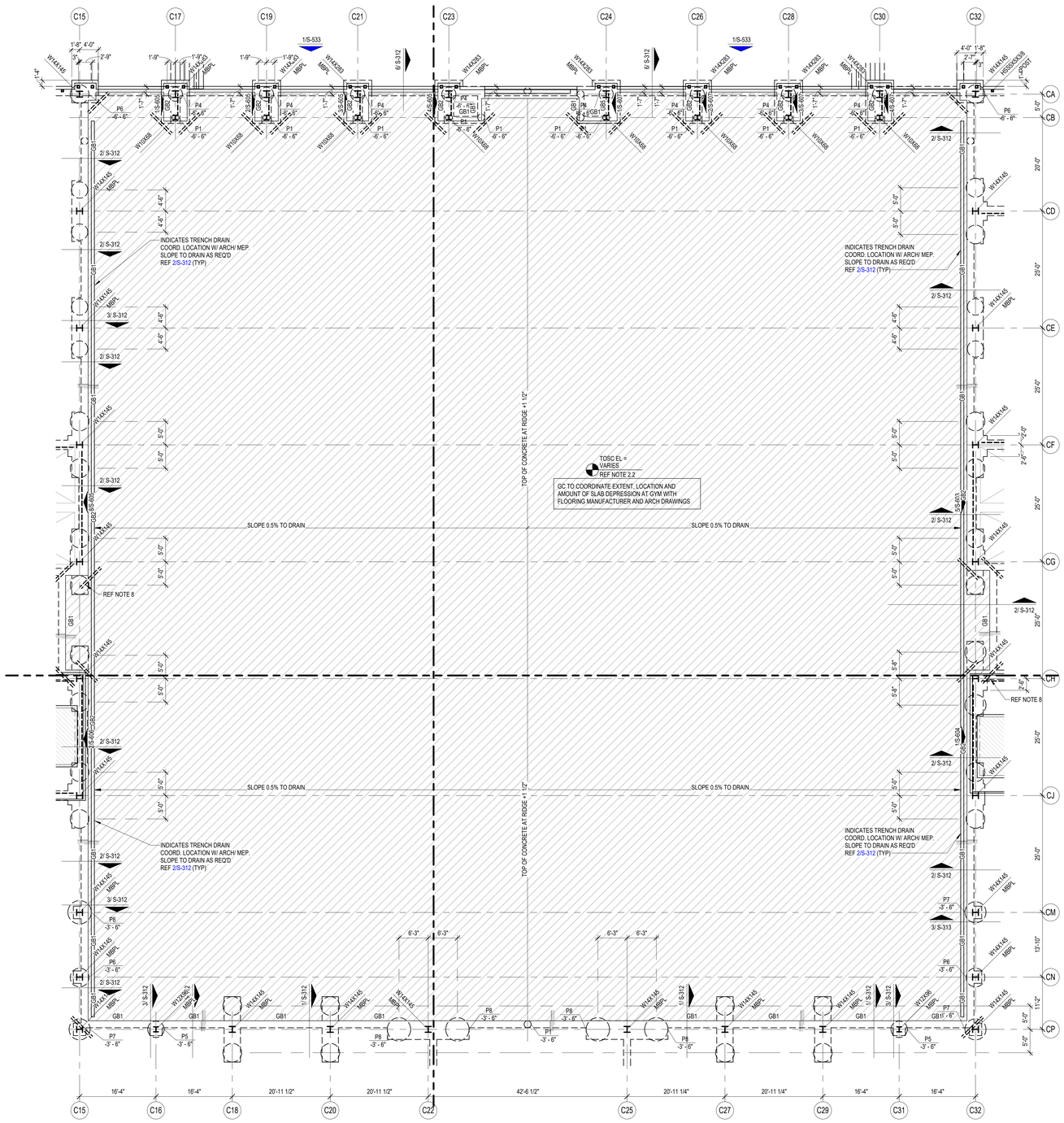
FOUNDATION PLAN - AREA F

S-101F

Plot Stamp:
12/5/2025 11:50:51 AM

FOUNDATION PLAN - AREA G
S-101G
FOR BLUEBEAM LABEL:INGOOR;

0"
1"



FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

2.1 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@15" OC EACH WAY, ON 2 1/2" CHAIRS FOR #4 BARS SPACED AT 30" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.2 6" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.3 5 1/2" THICK CONCRETE SLAB ON GRADE AT THE POLISHED CONC AREAS REINFORCED WITH #4@14" OC EACH WAY ON 3" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

3.1 TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.

3.2 TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" UON.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" UON.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" UON.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS

11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.

12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS. REF 10/S-301 FOR TRENCH DETAIL AND REF 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313 TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS/FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS/FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS/FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCH DWGS. REF 7/S-301 FOR DETAIL TYP

19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DRAWINGS.

20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311); HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB. ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA G
3/32" = 1'-0"

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Galena Park ISD

D

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

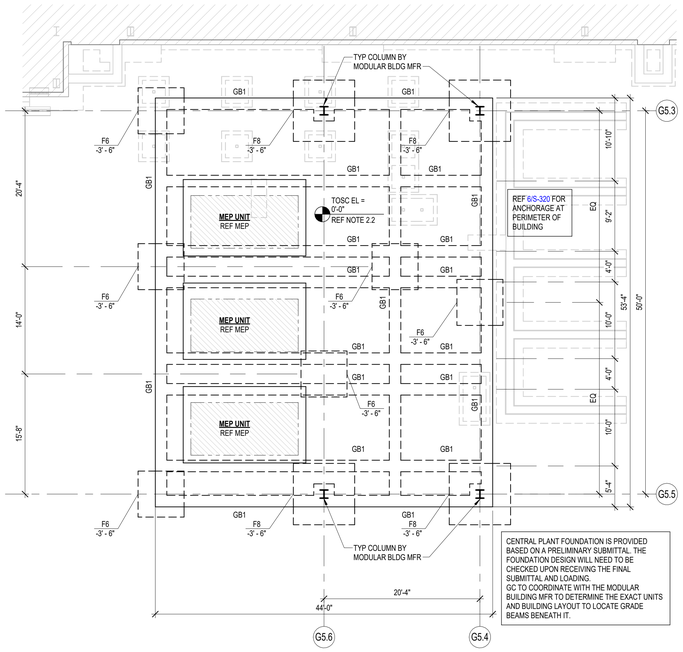
FOUNDATION PLAN - AREA G

S-101G

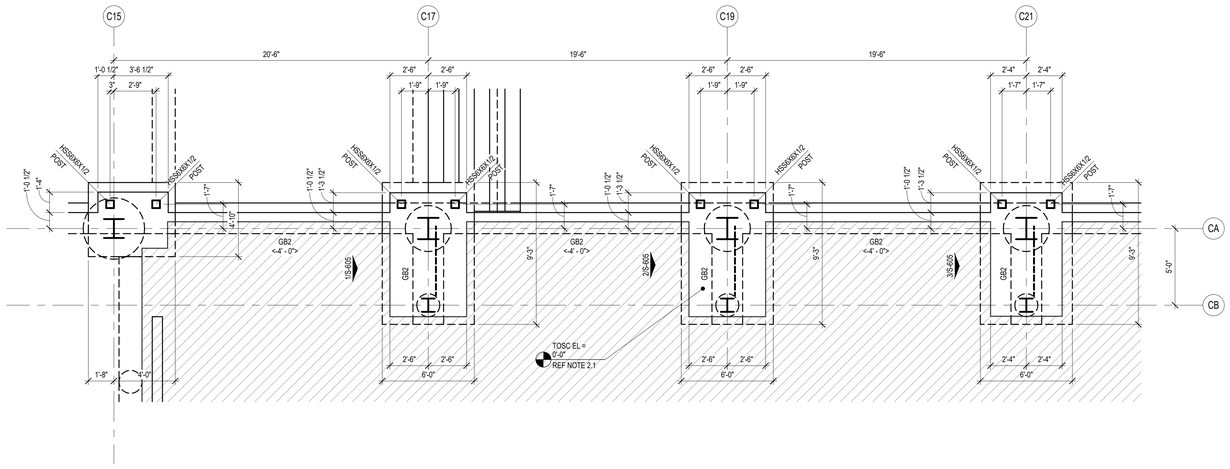
Plot Stamp:
12/5/2025 11:50:55 AM

FOUNDATION PLAN - MISC
S-101M
FOR BLUEBEAM LABELINGDOOR:

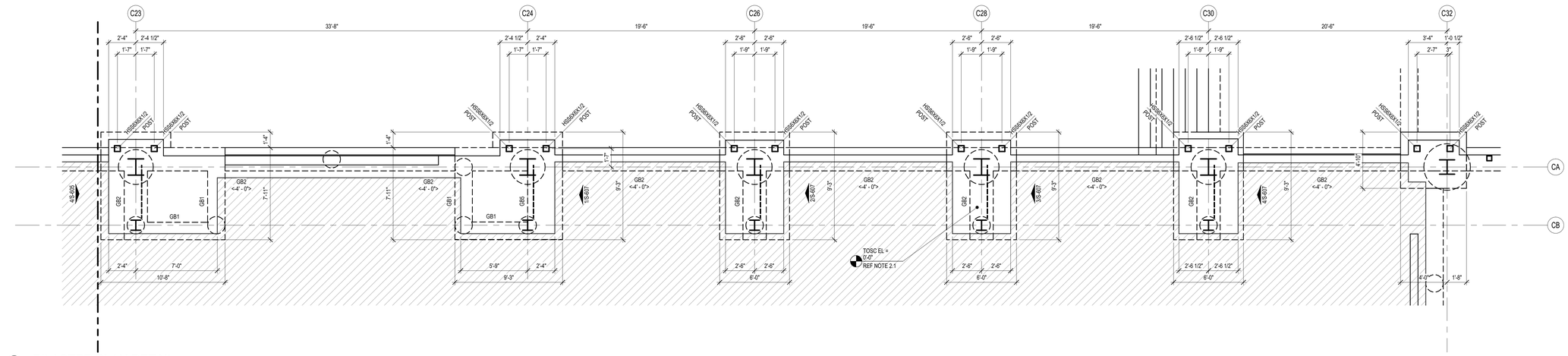
0"
1"



1 FOUNDATION PLAN - CENTRAL PLANT
1/8" = 1'-0"



2 PILASTER PLAN DETAIL
1/4" = 1'-0"



3 PILASTER PLAN DETAIL
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PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301 .

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22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311); HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB.
ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

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Kubala ENGINEERS
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Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

FOUNDATION PLAN - MISC

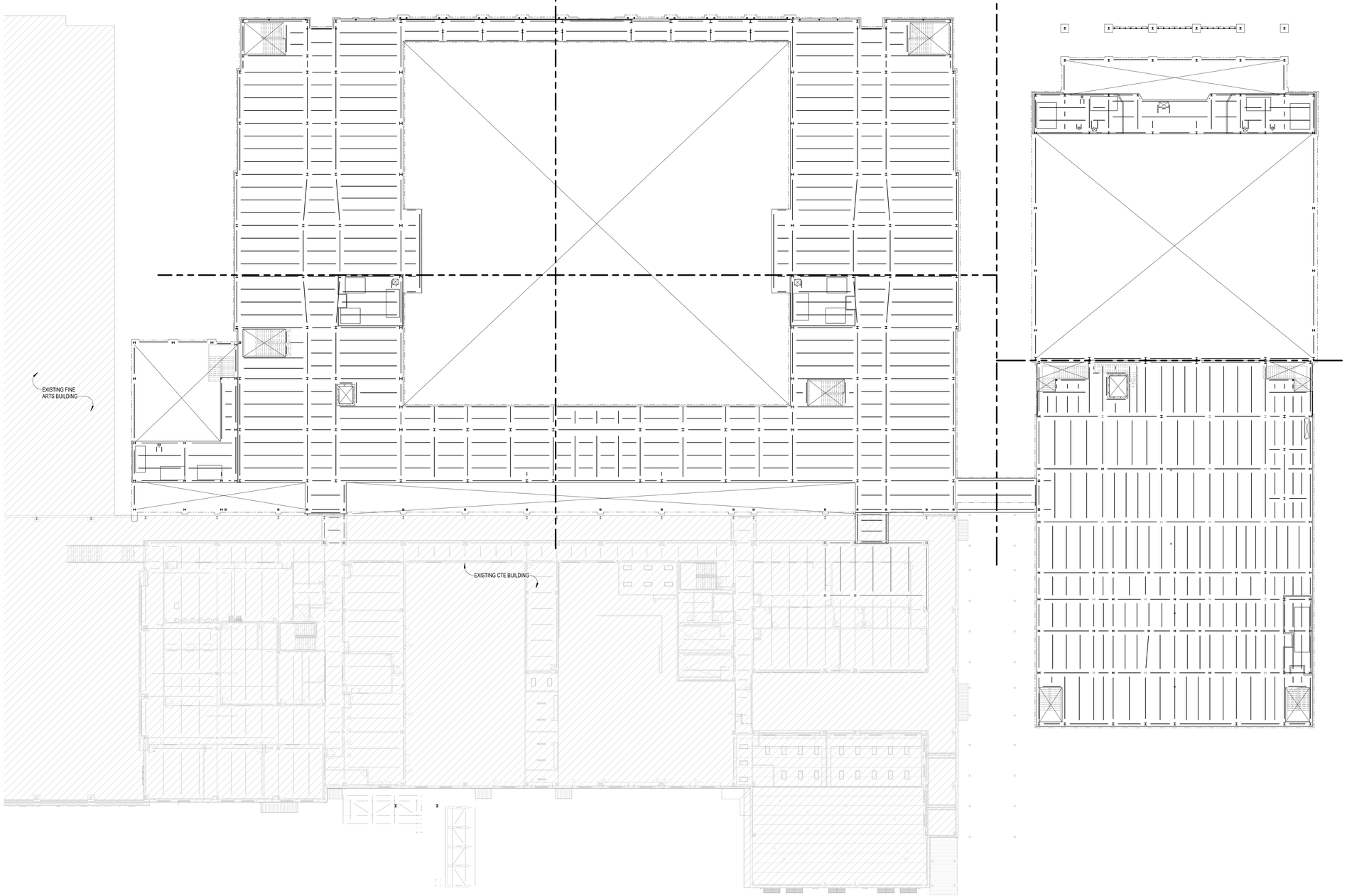
S-101M

Plot Stamp:
12/5/2025 11:50:58 AM

COMPOSITE SECOND FLOOR FRAMING PLAN
S-102
FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:
REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE SECOND FLOOR FRAMING PLAN
3/64" = 1'-0"

PBK

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TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

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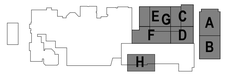
ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

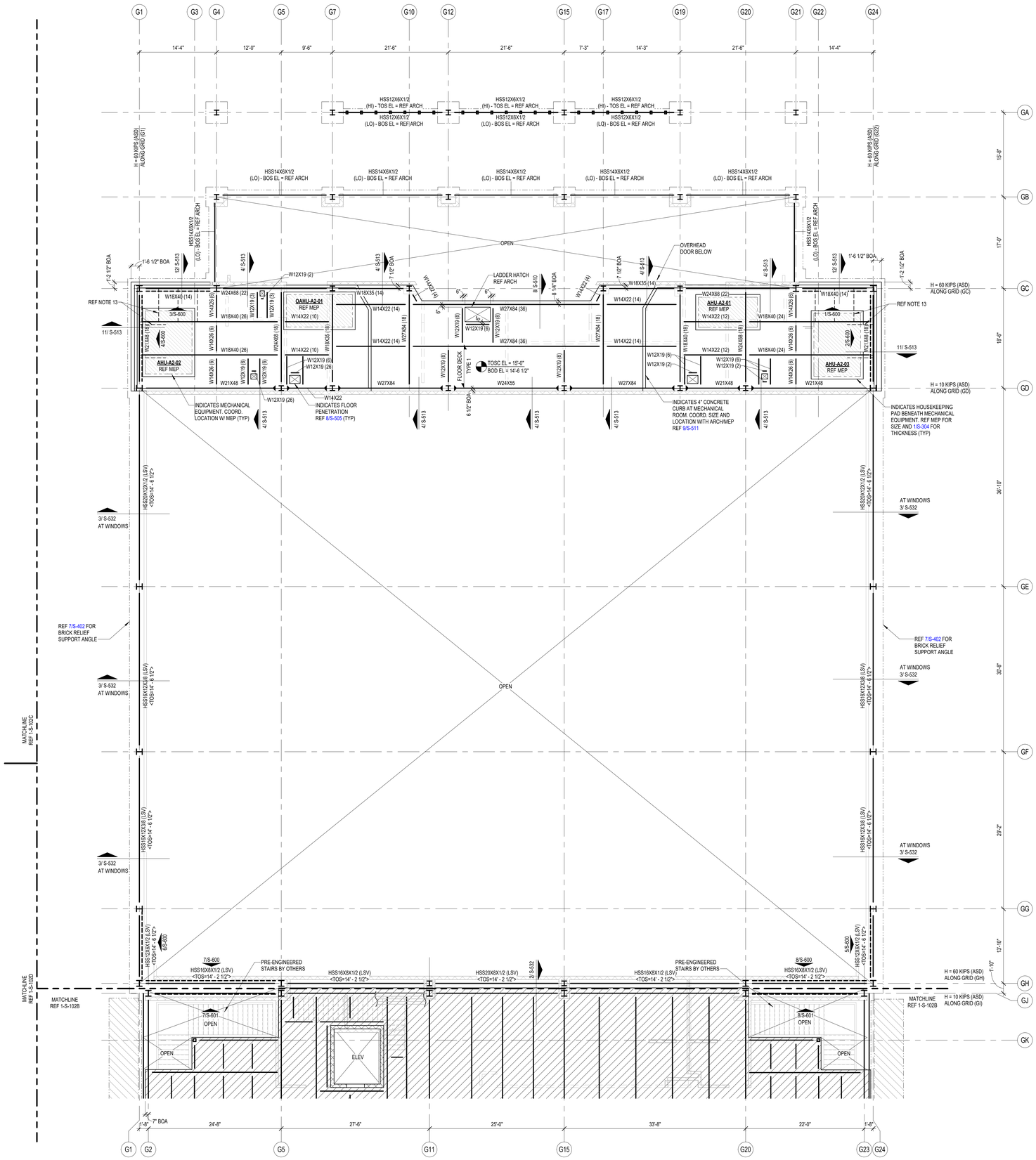
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE SECOND FLOOR FRAMING PLAN

S-102

Plot Stamp:
12/5/2025 11:51:01 AM

SECOND FLOOR FRAMING PLAN - AREA A
S-102A
FOR BLUEBEAM LABELINGDOOR:



1 SECOND FLOOR FRAMING PLAN - AREA A
1/8" = 1'-0"

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. XXXX - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala Engineers
www.kubalaengineers.com
TBPE FIRM: F-23612
TEL 832.651.1427 (OFFICE)

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

A

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

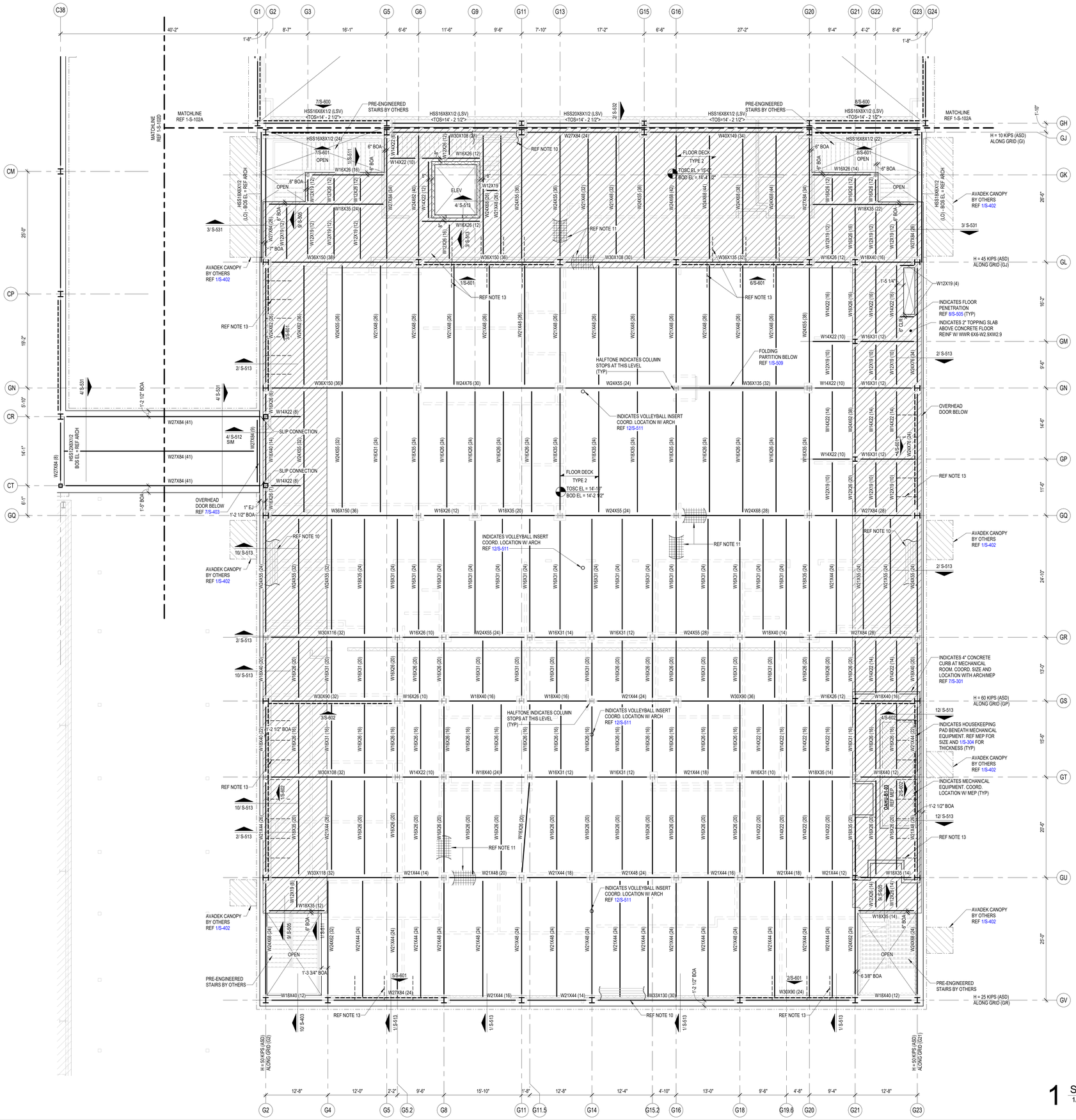
CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA A

S-102A

Plot Stamp:
12/5/2025 11:51:02 AM

SECOND FLOOR FRAMING PLAN - AREA B
S-102B
FOR BLUEBEAM LABELING/DOOR:


C38
G1
G2
G3
G5
G6
G9
G11
G13
G15
G16
G20
G21
G22
G23
G24
40'-2"
8'-7"
16'-1"
6'-6"
11'-8"
9'-6"
7'-10"
17'-2"
6'-6"
27'-2"
9'-4"
4'-2"
8'-6"
1'-8"
CM
CP
GN
CR
CT
GQ
GH
GJ
GK
GL
GM
GP
GR
GS
GT
GU
GV
MATCHLINE REF 1-S-102A
MATCHLINE REF 1-S-102D
PRE-ENGINEERED STAIRS BY OTHERS
HSS16X8X1/2 (LSV) <TOS=14' - 2 1/2">
HSS20X8X1/2 (LSV) <TOS=14' - 2 1/2">
HSS16X8X1/2 (LSV) <TOS=14' - 2 1/2">
HSS16X8X1/2 (LSV) <TOS=14' - 2 1/2">
7/S-600
2/S-602
8/S-600
HSS16X8X1/2 (LOV) - BOS EL= REF ARCH
HSS12X8X1/2 BOS EL= REF ARCH
HSS16X8X1/2 (24)
HSS16X8X1/2 (22)
7/S-601
8/S-601
OPEN
6" BOA
1'-5" BOA
1'-2 1/2" BOA
7" BOA
1/S-511
REF NOTE 10
REF NOTE 11
REF NOTE 13
FLOOR DECK TYPE 2
TOSC EL = 15'-0"
BOD EL = 14'-4 1/2"
ELEV 4/ S-510
H = 10 KIPS (ASD) ALONG GRID (GJ)
H = 45 KIPS (ASD) ALONG GRID (GJ)
H = 60 KIPS (ASD) ALONG GRID (GP)
H = 25 KIPS (ASD) ALONG GRID (GR)
H = 50 KIPS (ASD) ALONG GRID (G2)
H = 50 KIPS (ASD) ALONG GRID (G21)
AVADEK CANOPY BY OTHERS REF 1/S-402
3/ S-531
4/ S-531
2/ S-513
10/ S-513
12/ S-513
1/S-601
3/S-513
SLIP CONNECTION
4/ S-512 SIM
OVERHEAD DOOR BELOW REF 7/S-403
1" EJ
INDICATES VOLLEYBALL INSERT COORD. LOCATION W/ ARCH REF 12/S-511
HALFTONE INDICATES COLUMN STOPS AT THIS LEVEL (TYP)
FOLDING PARTITION BELOW REF 1/S-509
INDICATES FLOOR PENETRATION REF 8/S-505 (TYP)
INDICATES 2" TOPPING SLAB ABOVE CONCRETE FLOOR REINF W/ WWR 6X6-W2.9XW2.9
OVERHEAD DOOR BELOW
INDICATES 4" CONCRETE CURB AT MECHANICAL ROOM. COORD. SIZE AND LOCATION WITH ARCH/MEP REF 7/S-301
INDICATES HOUSEKEEPING PAD BENEATH MECHANICAL EQUIPMENT. REF MEP FOR SIZE AND 1/S-304 FOR THICKNESS (TYP)
INDICATES MECHANICAL EQUIPMENT. COORD. LOCATION W/ MEP (TYP)
OAHU-B1-03 REF MEP
PRE-ENGINEERED STAIRS BY OTHERS
1'-3 3/4" BOA
1'-6 3/8" BOA
2/S-601
5/S-601
W27X84 (41)
W27X84 (8)
W16X40 (14)
W16X26 (17)
W16X26 (16)
W16X26 (12)
W18X35 (24)
W18X35 (22)
W36X150 (38)
W36X150 (36)
W30X108 (30)
W36X135 (32)
W18X40 (16)
W24X76 (30)
W24X55 (24)
W14X22 (10)
W16X31 (12)
W24X76 (28)
W14X22 (8)
W16X26 (12)
W18X35 (20)
W24X55 (28)
W27X84 (28)
W30X116 (32)
W16X26 (10)
W16X31 (14)
W18X40 (14)
W30X90 (32)
W18X40 (20)
W21X44 (24)
W30X90 (36)
W30X108 (32)
W16X31 (10)
W21X44 (20)
W33X118 (32)
W21X44 (14)
W21X48 (20)
W21X44 (18)
W21X48 (24)
W21X44 (16)
W18X40 (12)
W21X44 (12)
W33X130 (30)
W30X90 (24)
W18X35 (14)
W12X19 (4)
W16X31 (12)
W16X26 (14)
W18X40 (16)
W16X26 (12)
W18X35 (22)
W27X84 (26)
W27X84 (28)
W24X76 (26)
W24X76 (24)
W24X55 (36)
W24X55 (32)
W24X55 (24)
W24X68 (28)
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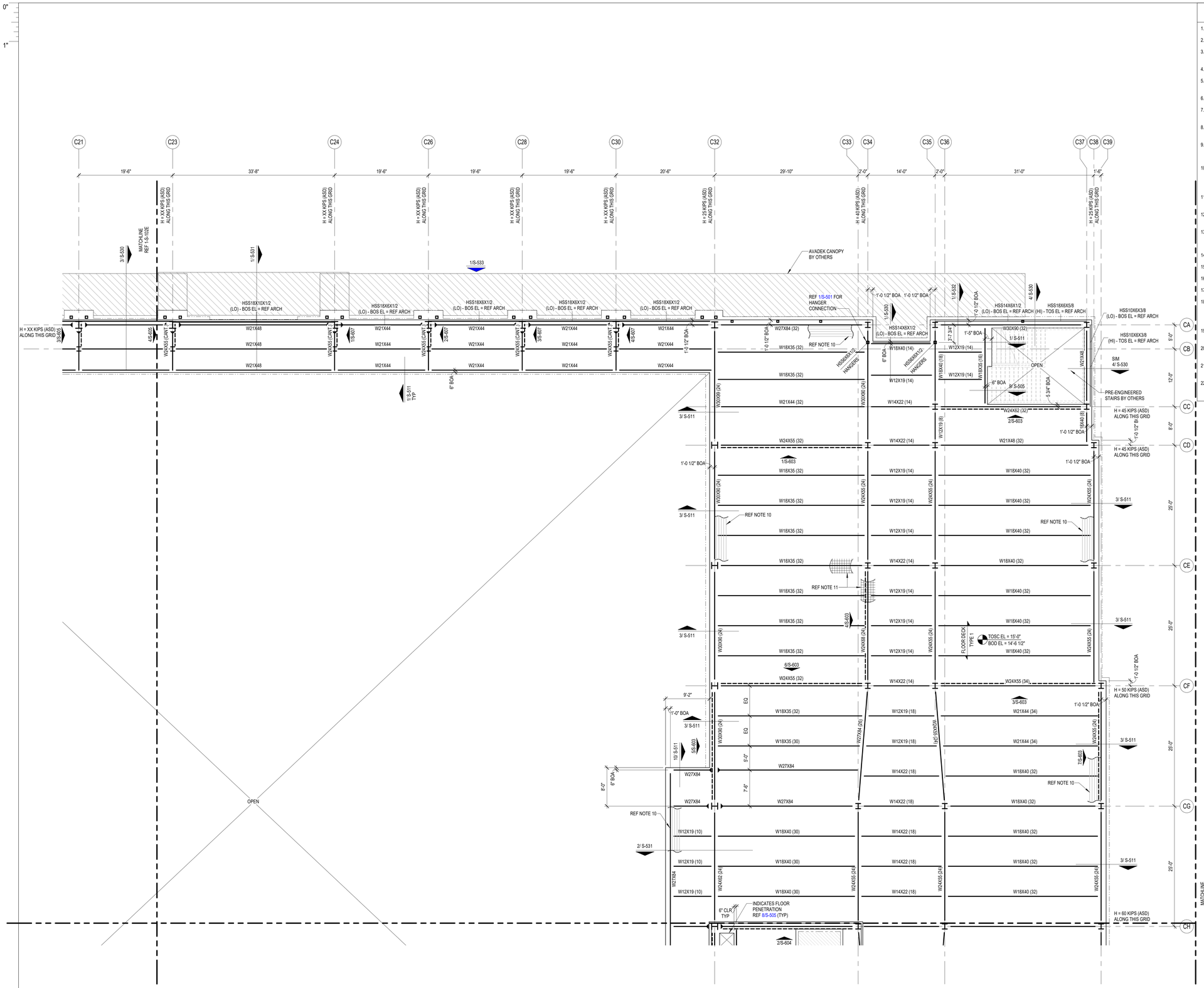
W24X68 (58)
W24X62 (60)
W24X68 (60)
W24X62 (62)
W24X68 (62)
W24X62 (64)
W24X68 (64)
W24X62

SECOND FLOOR FRAMING PLAN - AREA C

S-102C

FOR BLUEBEAM LABELING/DOOR:



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [XXXX] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

QC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1 SECOND FLOOR FRAMING PLAN - AREA C
1/8" = 1'-0"

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713-865-0008

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TX REG. NO. F-23612

Galena Park ISD
EXCELLENCE IN EVERY DETAIL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

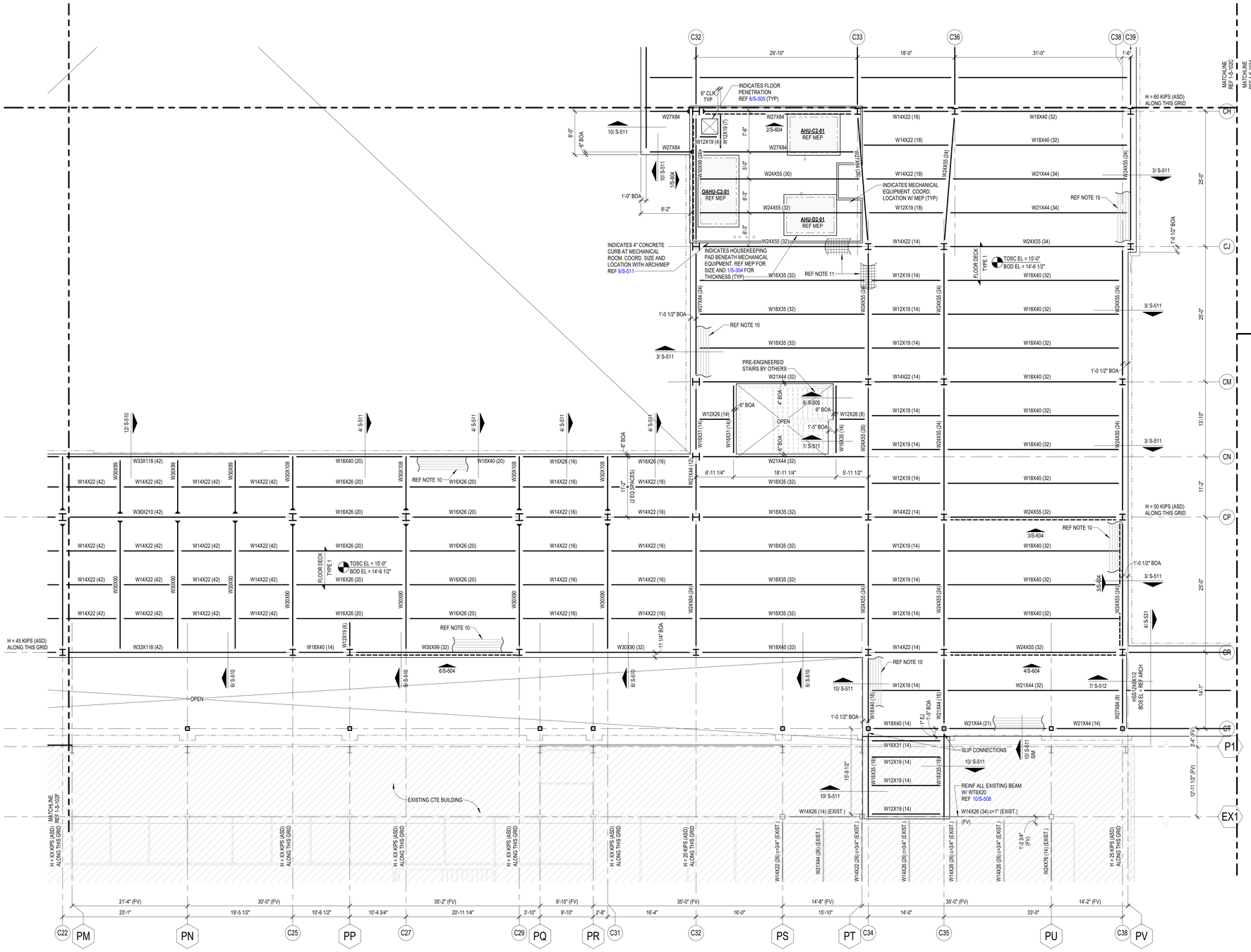
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA C

S-102C

Plot Stamp:
12/5/2025 11:51:10 AM

SECOND FLOOR FRAMING PLAN - AREA D
S-102D
FOR BLUEBEAM LABELING/DOOR:



1 SECOND FLOOR FRAMING PLAN - AREA D
1/8" = 1'-0"

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. ⊠ - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
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20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

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www.kubalaengineers.com
TBPE FIRM NO. F-23612
TEL 832.541.1200

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA D

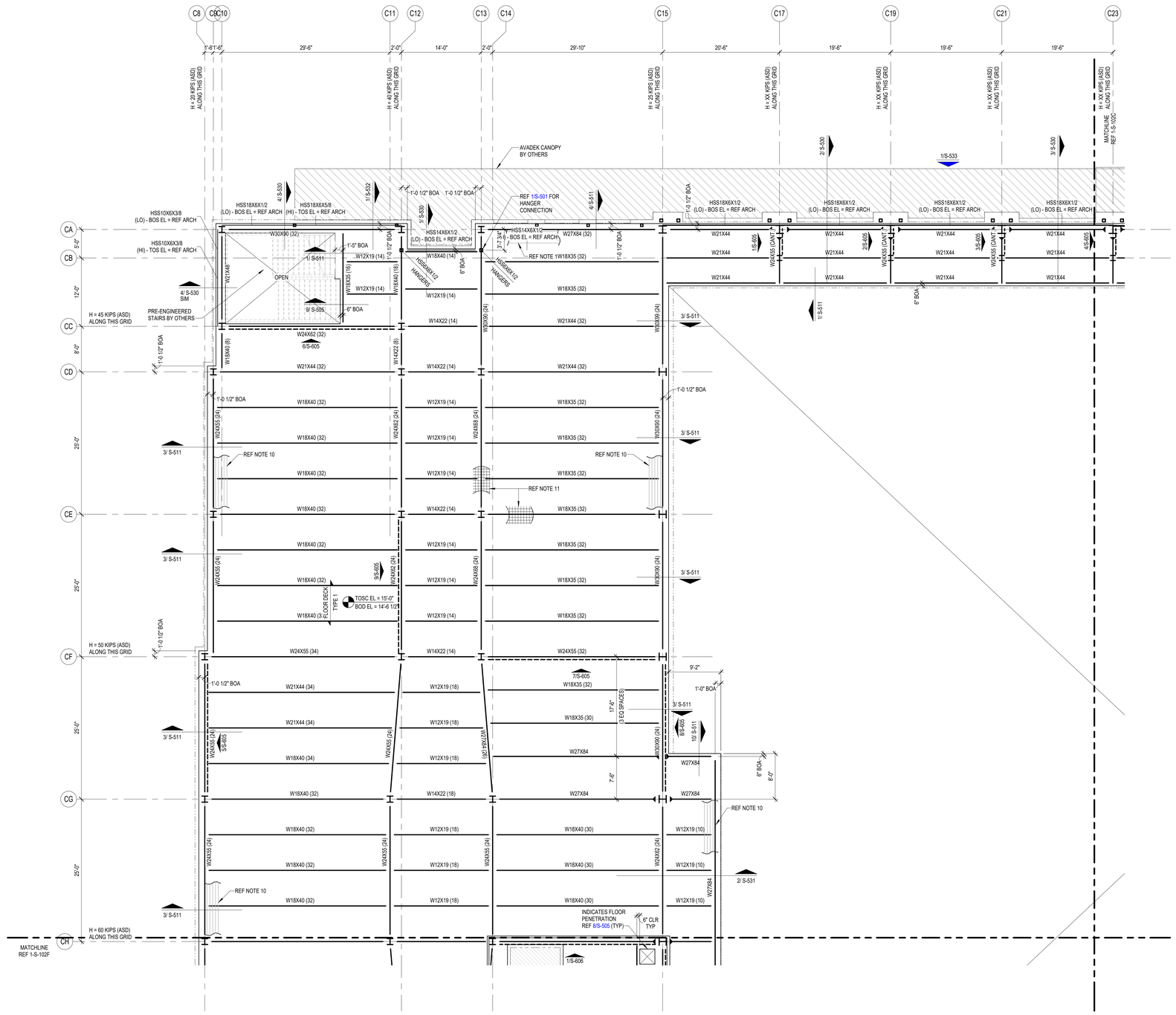
S-102D

Plot Stamp:
12/5/2025 11:51:13 AM

SECOND FLOOR FRAMING PLAN - AREA E
S-102E

FOR BLUEBEAM LABELING/DOOR:

0"
1"



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
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8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
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10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. XXXX - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1 SECOND FLOOR FRAMING PLAN - AREA E
1/8" = 1'-0"

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TX REG: No F-23612

Galena Park ISD
EXCELLENCE ALL TOGETHER

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

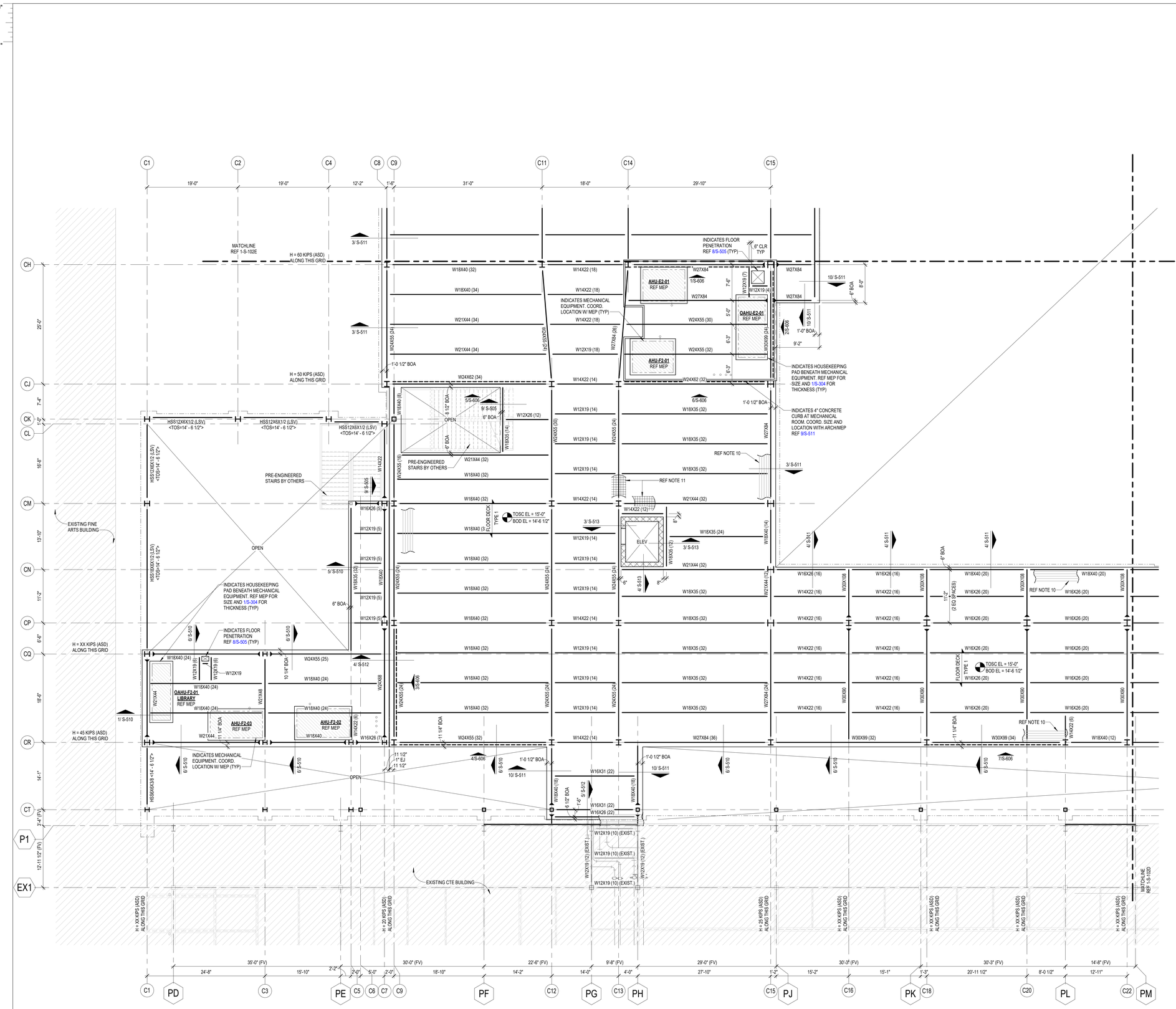
SECOND FLOOR FRAMING PLAN - AREA E

S-102E

Plot Stamp:
12/5/2025 11:51:16 AM

SECOND FLOOR FRAMING PLAN - AREA F
S-102F

FOR BLUEBEAM LABELING/DOOR:



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505 TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [ ] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED [DOG LEG DOWN], TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1 SECOND FLOOR FRAMING PLAN - AREA F
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA F

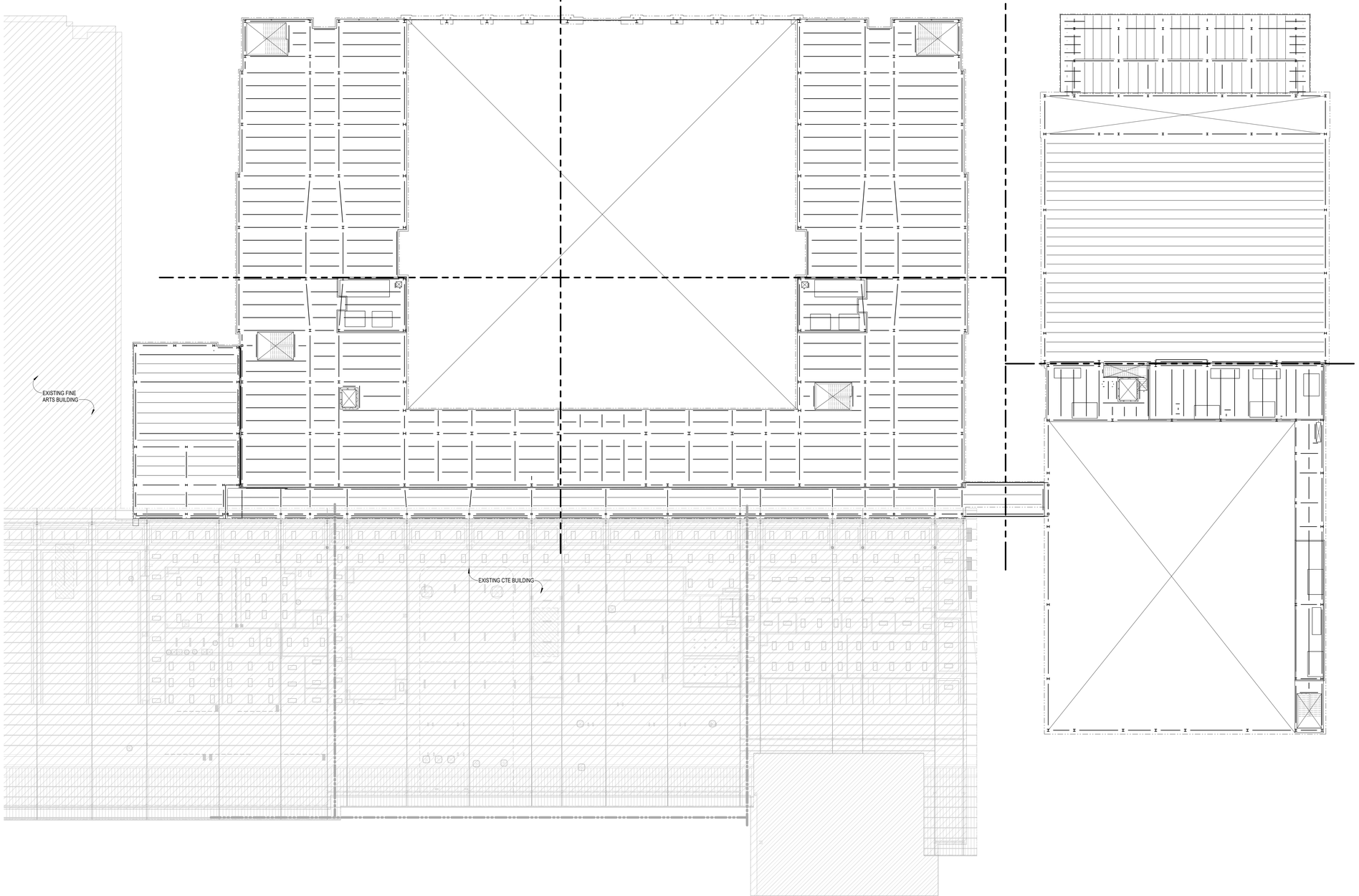
S-102F

Plot Stamp:
12/5/2025 11:51:19 AM

COMPOSITE THIRD FLOOR FRAMING PLAN
S-103
FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:
REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE THIRD FLOOR FRAMING PLAN
3/64" = 1'-0"

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713-965-0608

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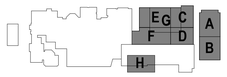


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

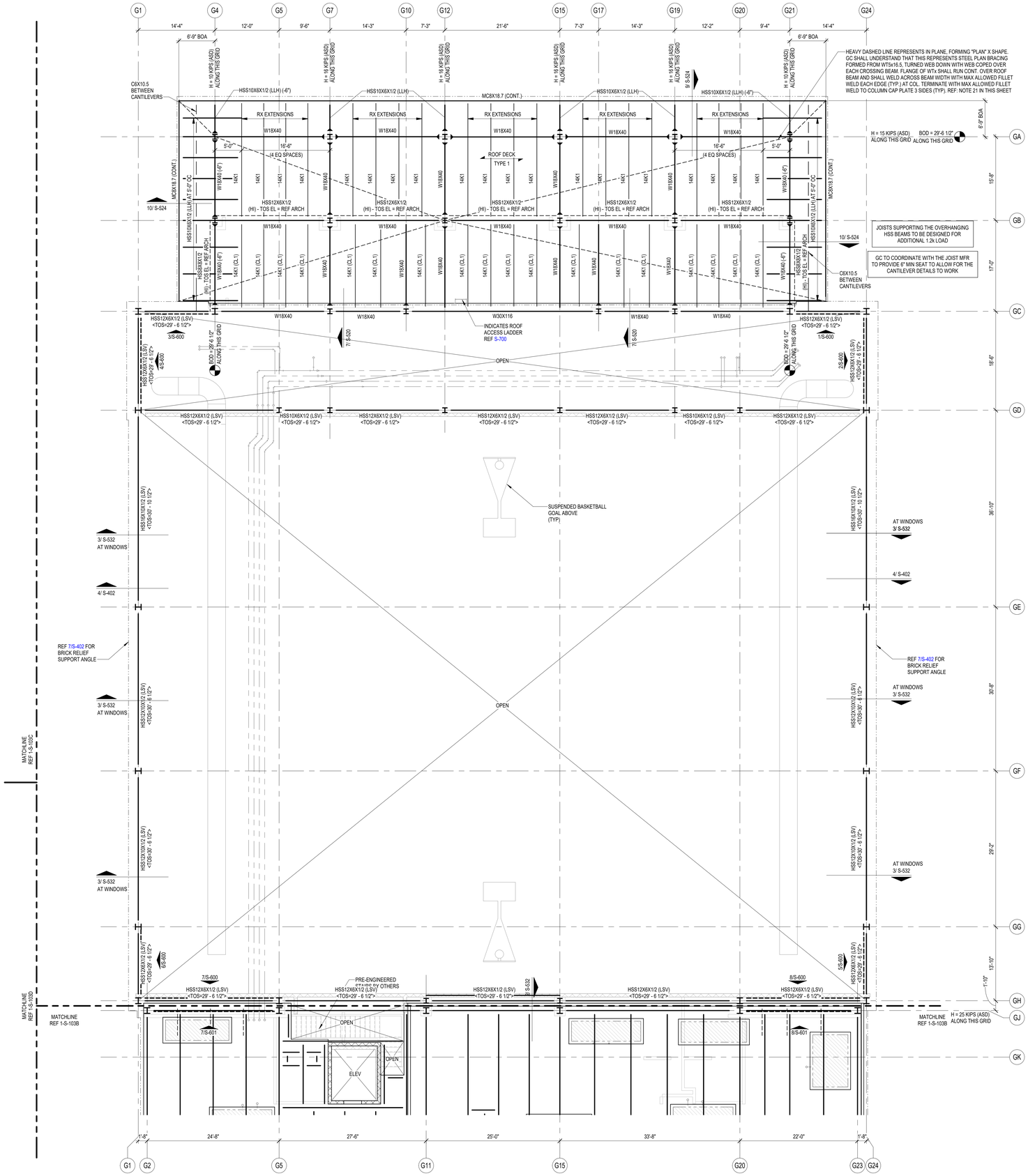
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE THIRD FLOOR FRAMING PLAN

S-103

Plot Stamp:
12/5/2025 11:51:21 AM

THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A
S-103A
FOR BLUEBEAM LABELING/DOOR:



ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN. REF MEP DRAWINGS. GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

1 LOW ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JOHN R. KUBALA 106120 LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

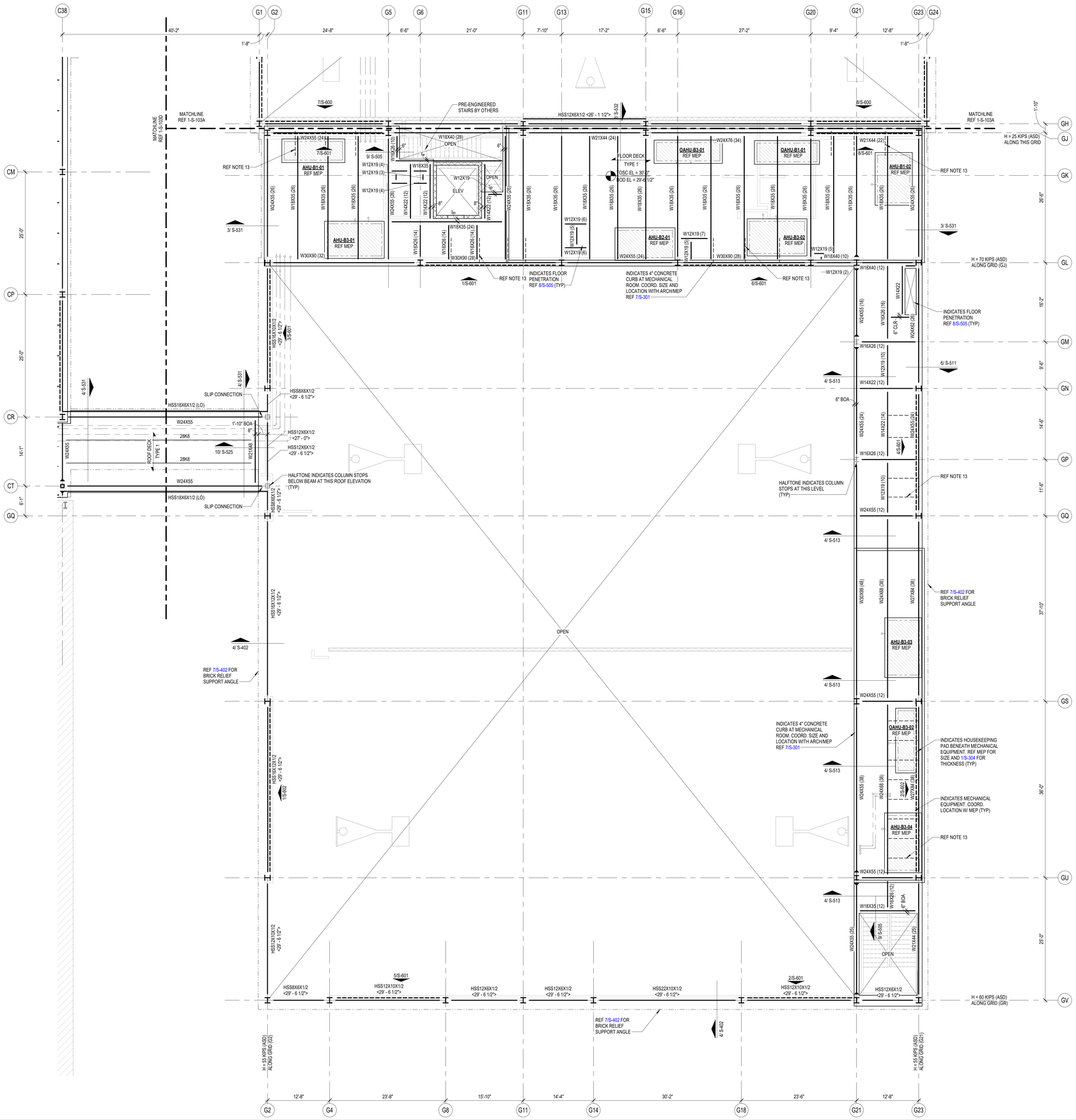
CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A

S-103A

Plot Stamp:
12/5/2025 11:51:24 AM

THIRD FLOOR FRAMING PLAN - AREA B
S-103B
FOR BLUEBEAM LABELING/DOOR:



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
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8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. CMU - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1 THIRD FLOOR FRAMING PLAN - AREA B
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0008
Kubala ENGINEERS
www.kubalaengineers.com
Phone: (832) 485-8444
TX REG: No F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JOHN R. KUBALA
106120
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

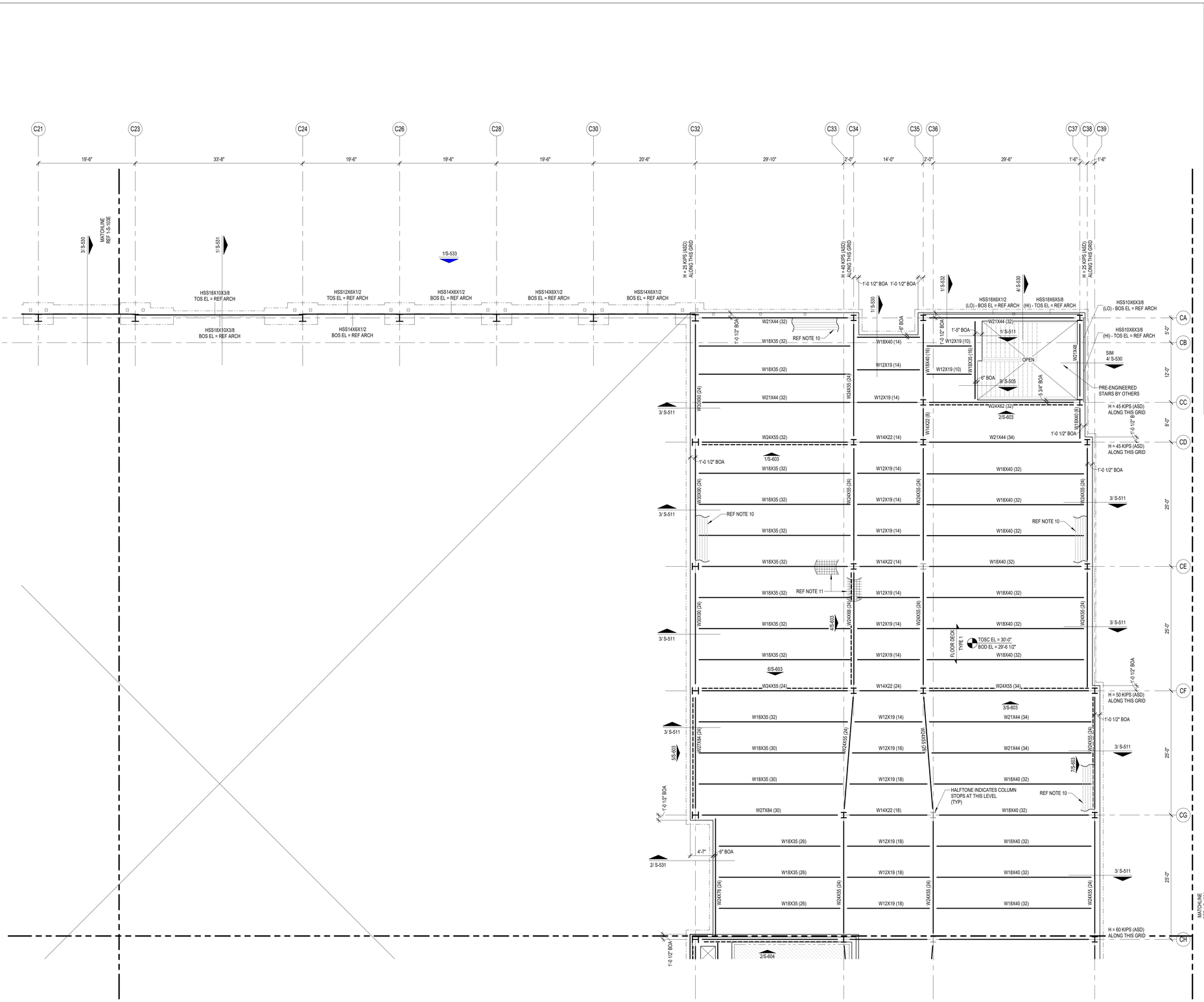
CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR FRAMING PLAN - AREA B

S-103B

Plot Stamp:
12/5/2025 11:51:27 AM

THIRD FLOOR FRAMING PLAN - AREA C
S-103C
FOR BLUEBEAM LABELING/DOOR:



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. XXXX - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)." IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1 THIRD FLOOR FRAMING PLAN - AREA C
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE: F-23612
TX. REG: No. 7-12612

KEY PLAN
NORTH: PLAN TRUE

JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

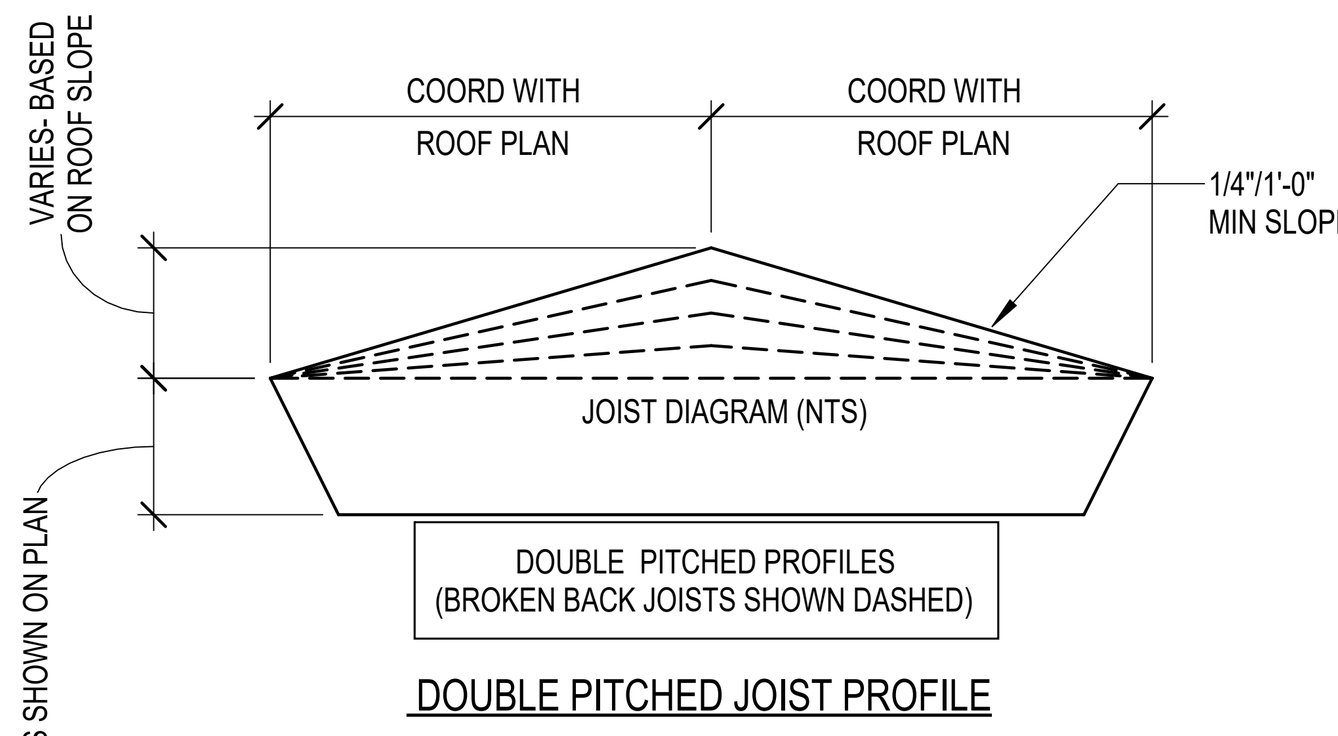
CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR FRAMING PLAN - AREA C

S-103C

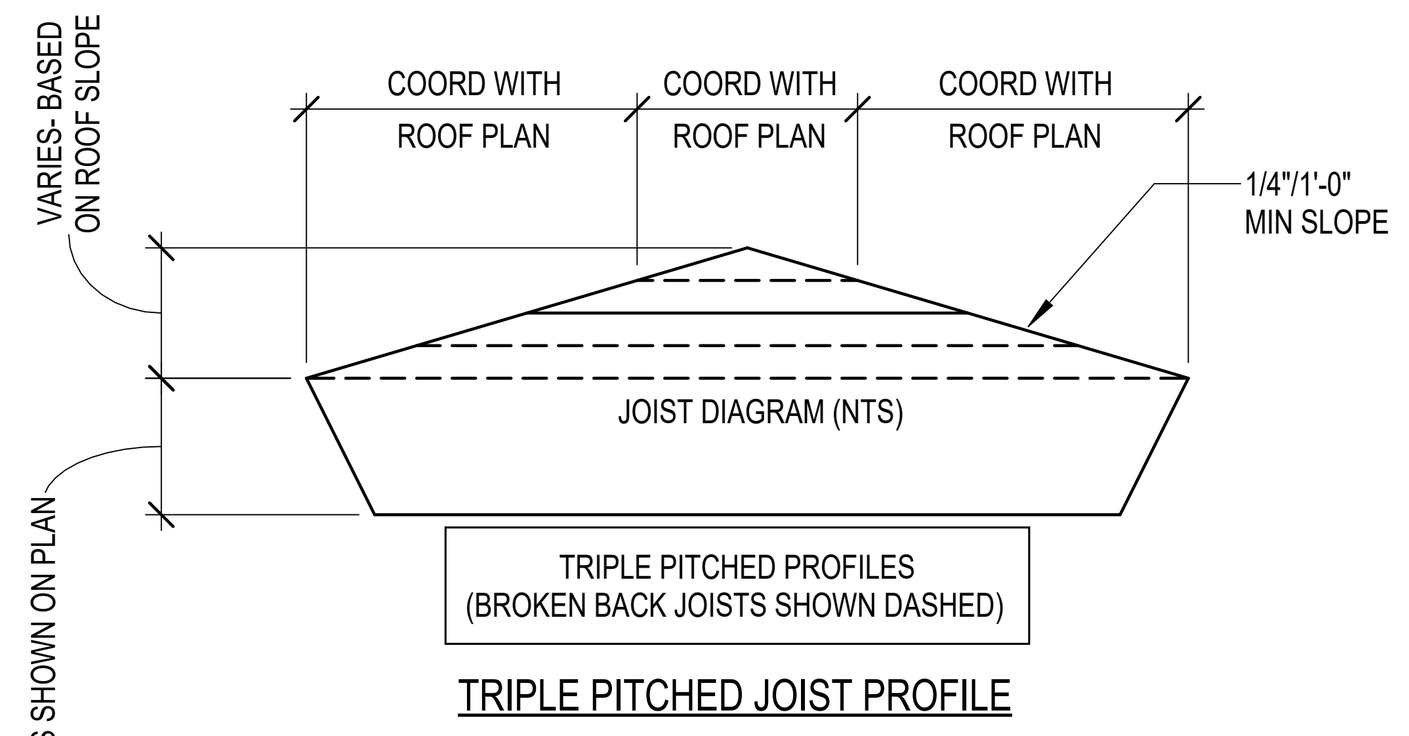
Plot Stamp:
12/5/2025 11:51:29 AM

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
S-103D
FOR BLUEBEAM LABELING/OCR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

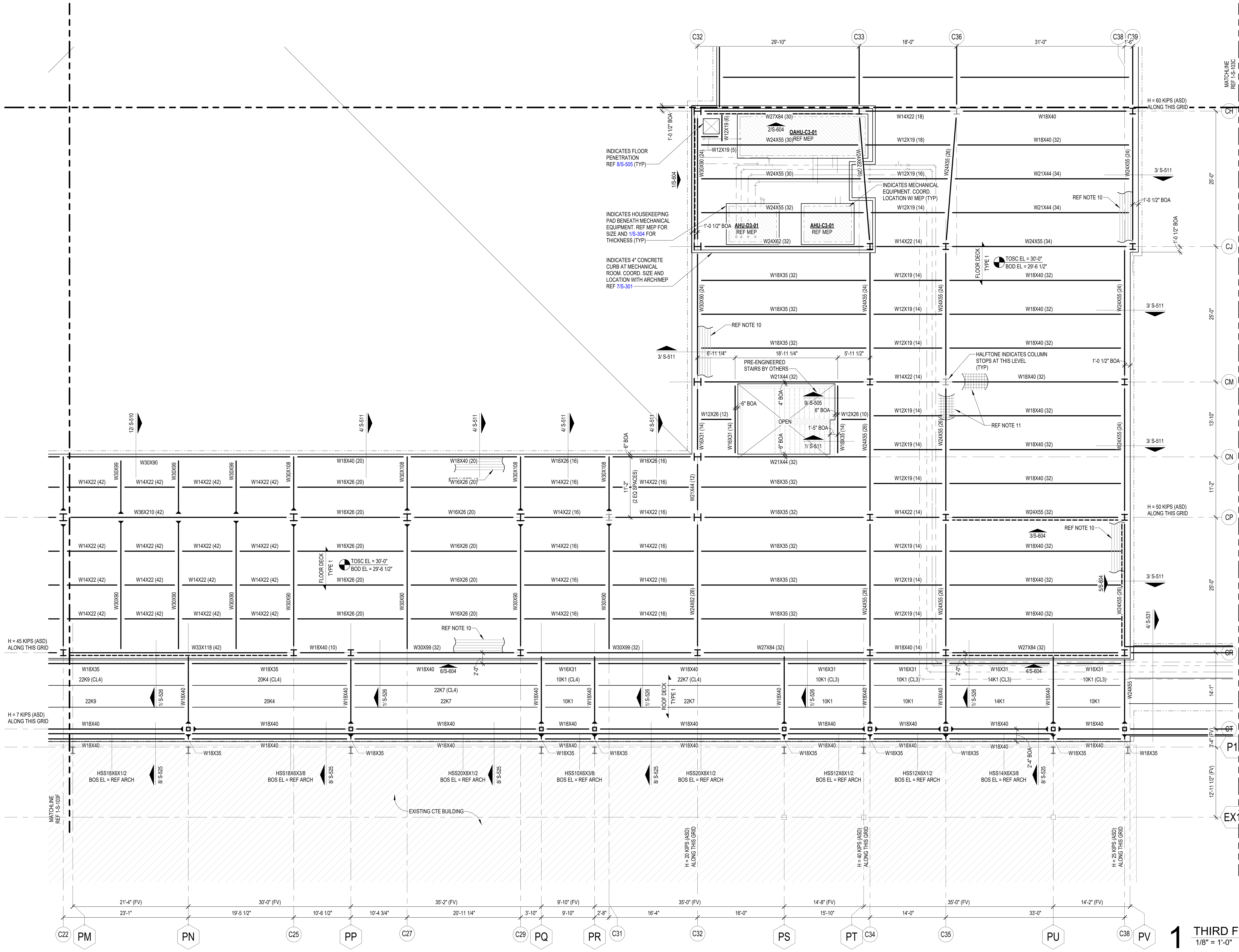
1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— — — ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.



1 THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
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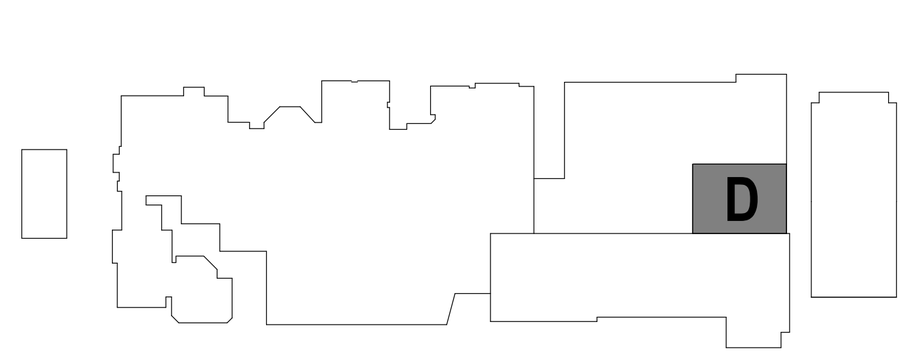


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

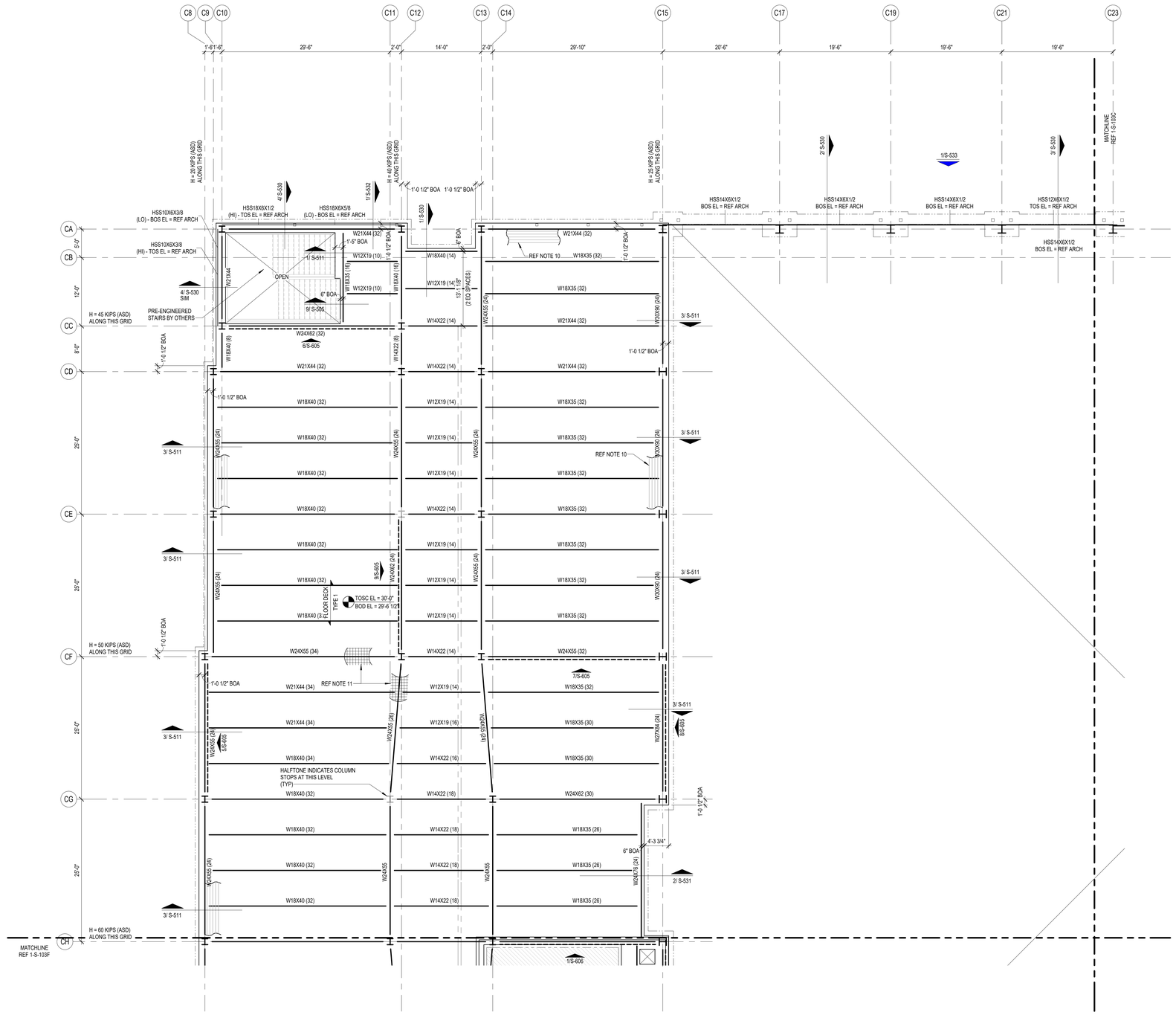
THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D

S-103D

Plot Stamp:
12/5/2025 11:51:32 AM

THIRD FLOOR FRAMING PLAN - AREA E
S-103E

FOR BLUEBEAM LABEL/INDOOR:



1 THIRD FLOOR FRAMING PLAN - AREA E
1/8" = 1'-0"

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP.).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [XXX] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

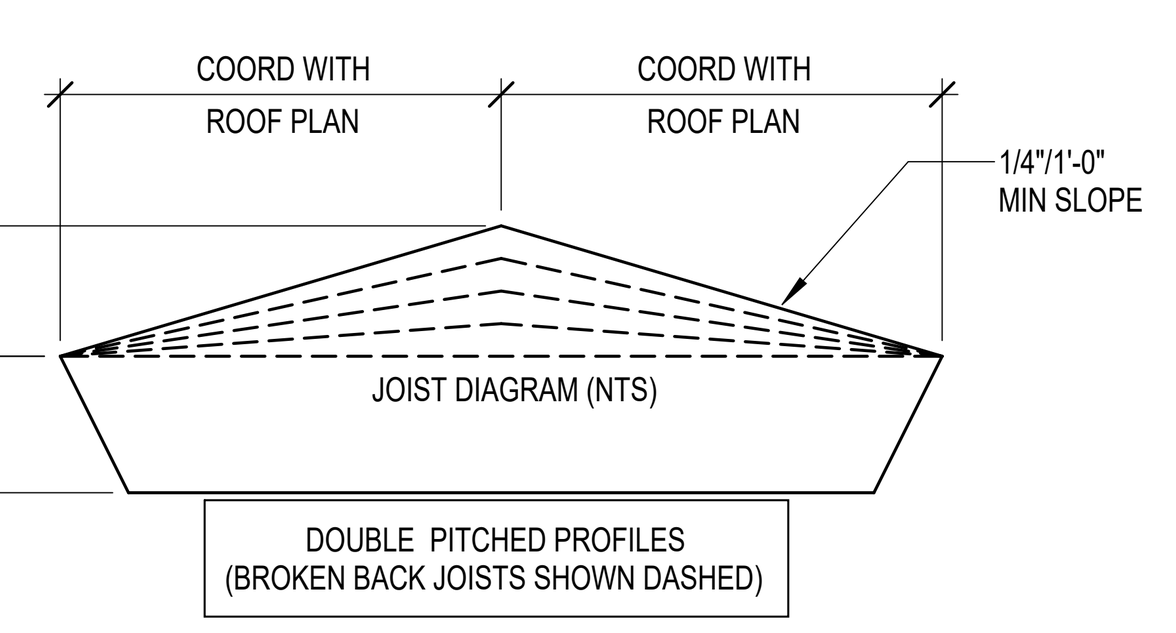
CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR FRAMING PLAN - AREA E

S-103E

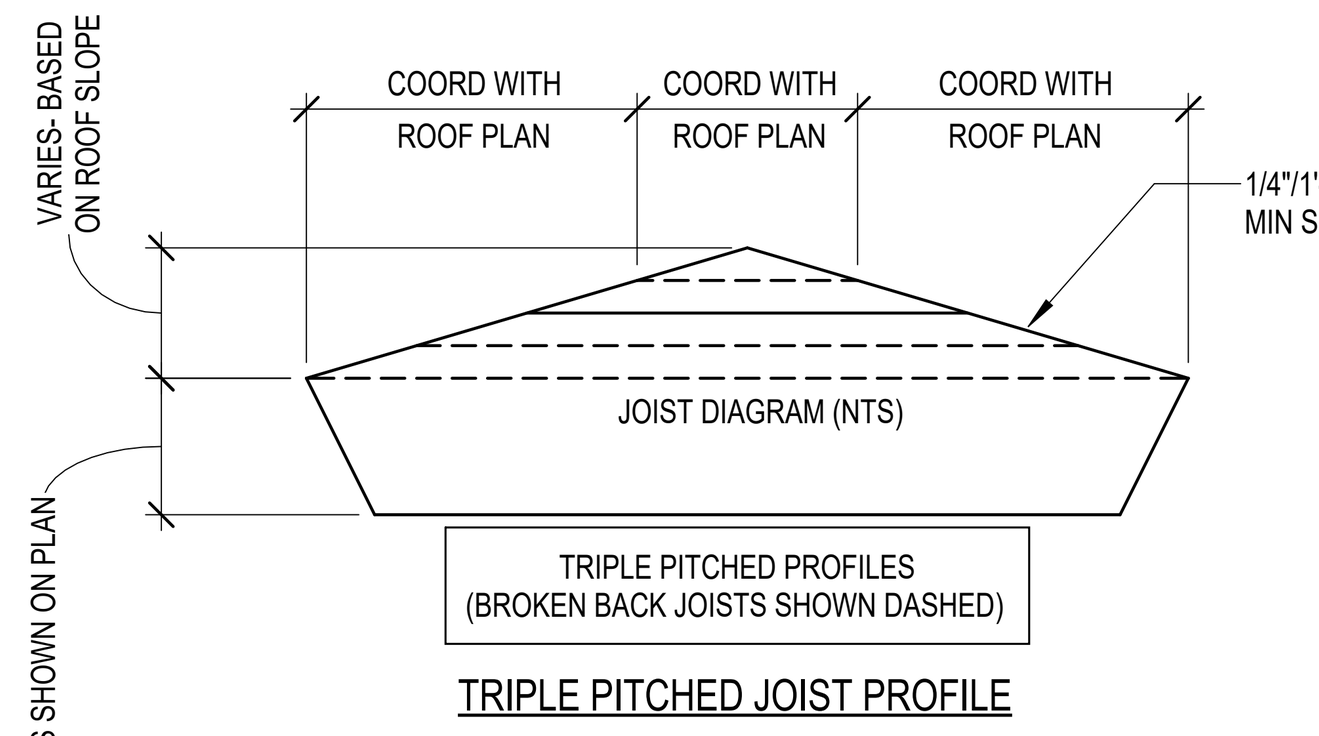
Plot Stamp:
12/5/2025 11:51:35 AM

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F
S-103F
FOR BLUEBEAM LABELING/OCR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. —— – – —— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE[ETV] ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
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11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
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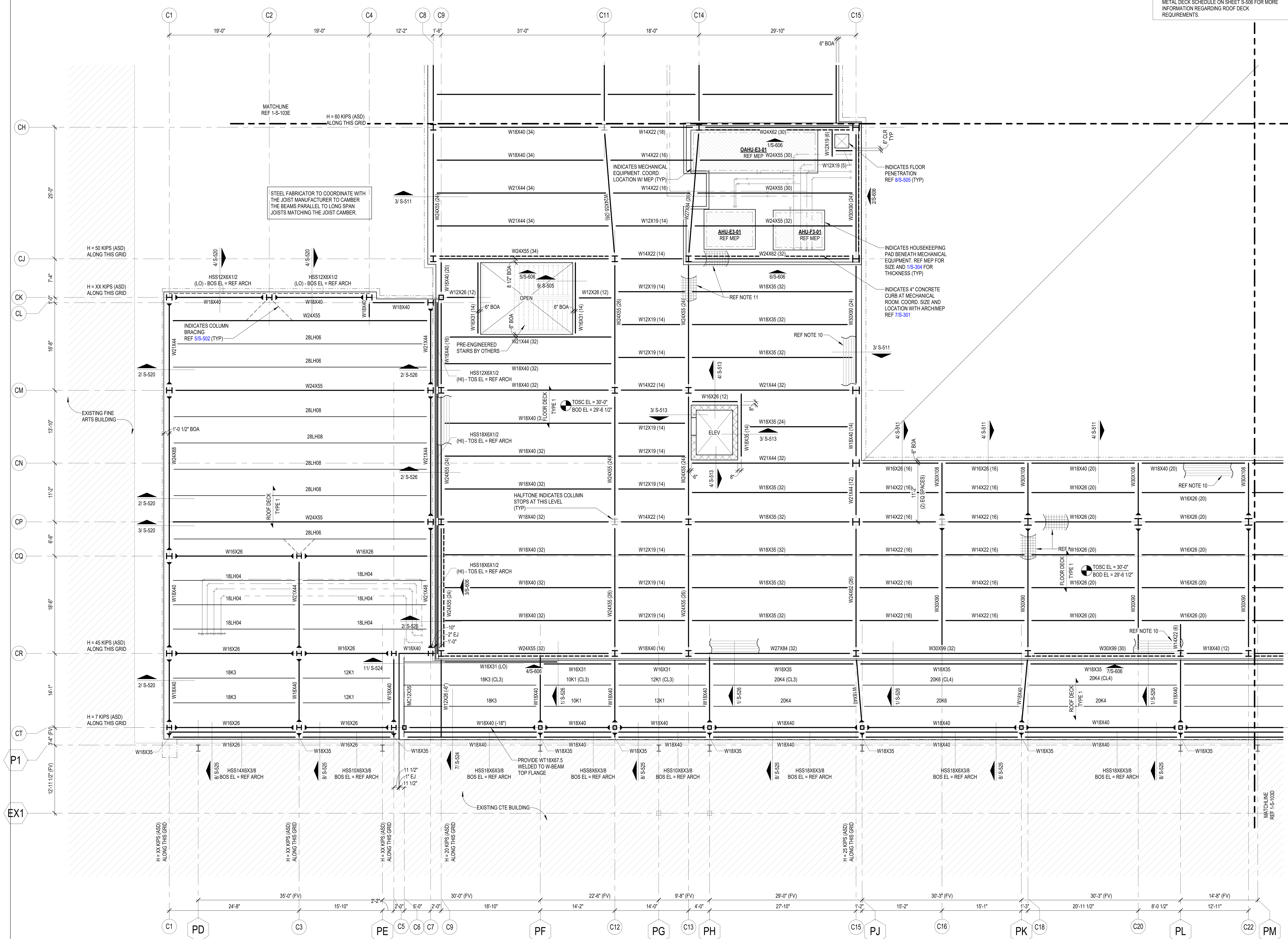
18. - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.



1 THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F
1/8" = 1'-0"



KEY PLAN
NORTH: PLAN TRUE

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St, Galena Park, TX 77547
ISSUE FOR PROPOSAL

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www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX 713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F

S-103F

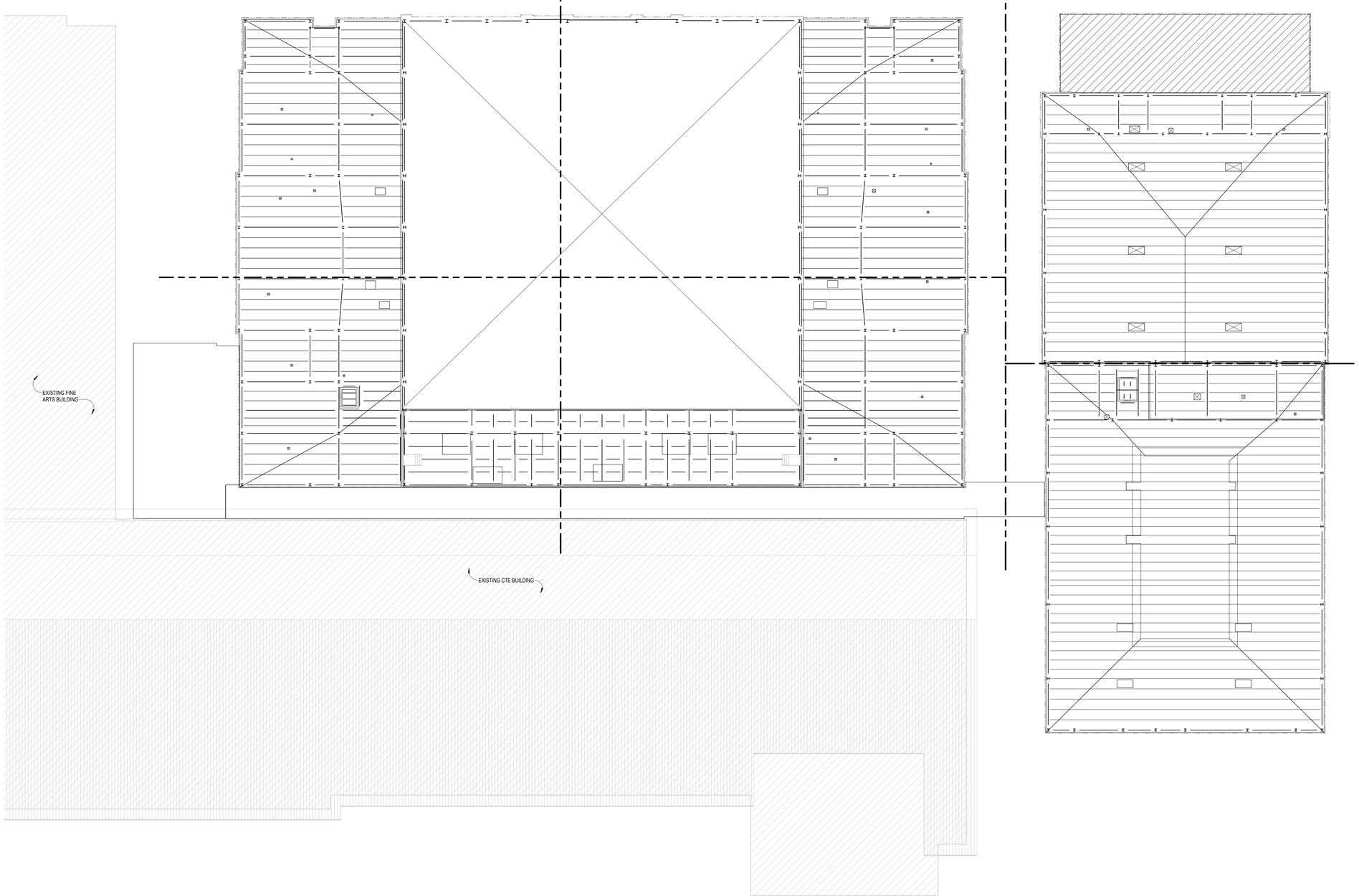
Plot Stamp:
12/5/2025 11:51:38 AM

COMPOSITE LOW ROOF FRAMING PLAN
S-104
FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:

REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE LOW ROOF FRAMING PLAN
3/64" = 1'-0"

PBK

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713-965-0608

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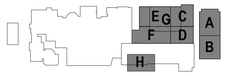


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

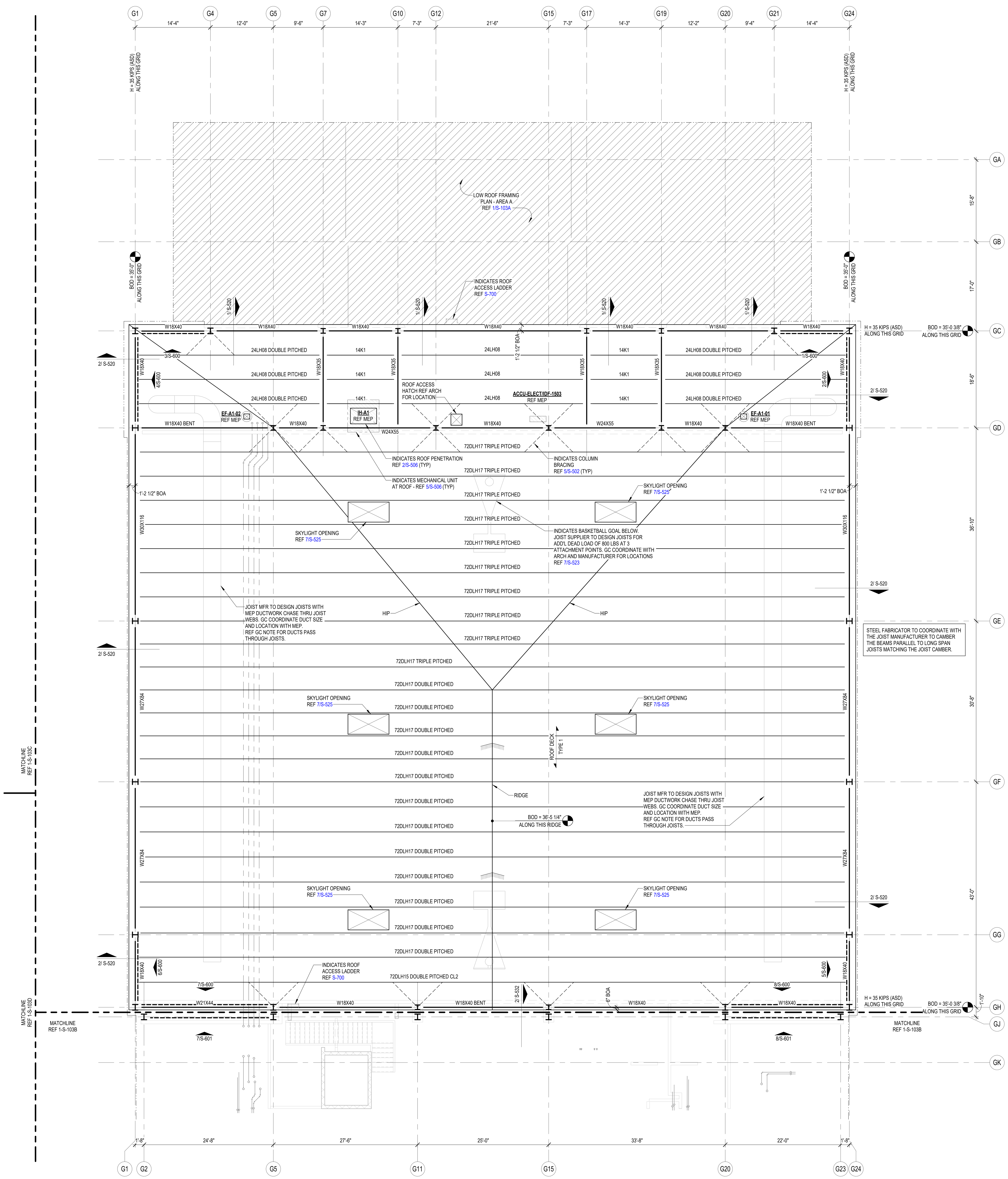
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE LOW ROOF FRAMING PLAN

S-104

Plot Stamp:
12/5/2025 11:51:39 AM

GYM LOW ROOF FRAMING PLAN - AREA A
S-104A
FOR BLUEBEAM LABELING/OCR:



GC PLEASE NOTE:

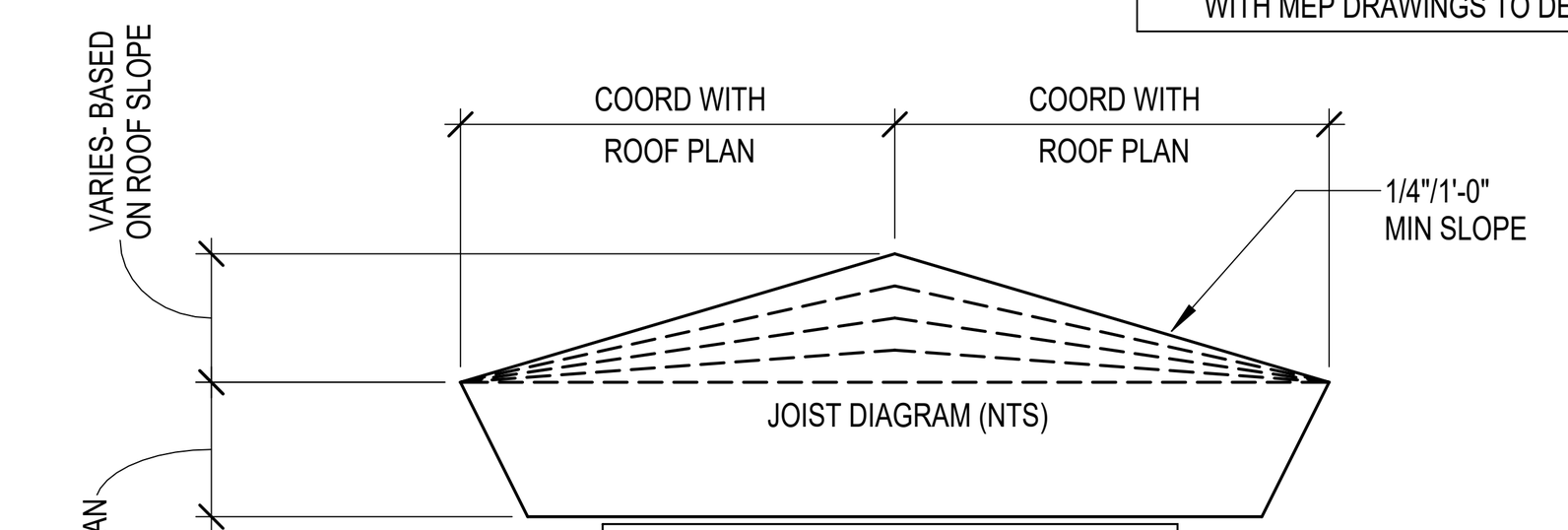
1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

ROOF PLAN NOTES

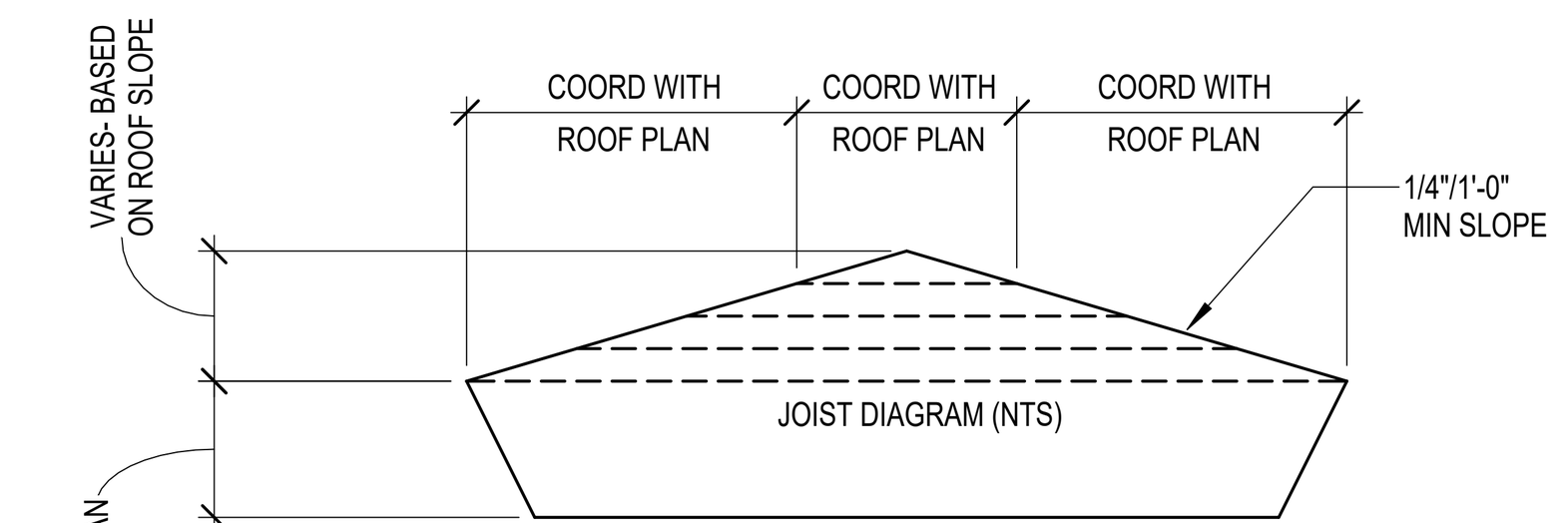
1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. —— – – —— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE ETV ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.



DOUBLE PITCHED PROFILES
(BROKEN BACK JOISTS SHOWN DASHED)

DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED PROFILES
(BROKEN BACK JOISTS SHOWN DASHED)

TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

1 GYM ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GYM LOW ROOF FRAMING PLAN - AREA A

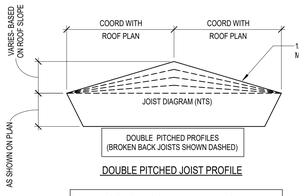
S-104A

Plot Stamp:
12/5/2025 11:51:42 AM

CLASSROOM LOW ROOF FRAMING PLAN - AREA C
S-104C

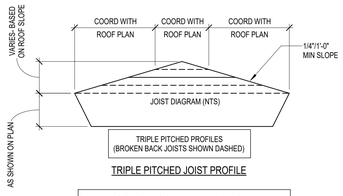
FOR BLUEBEAM LABELING/OCR:

0"
1"



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
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4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX.K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX.K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
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4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN. REF MEP DRAWINGS. GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \/ - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEGIN ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

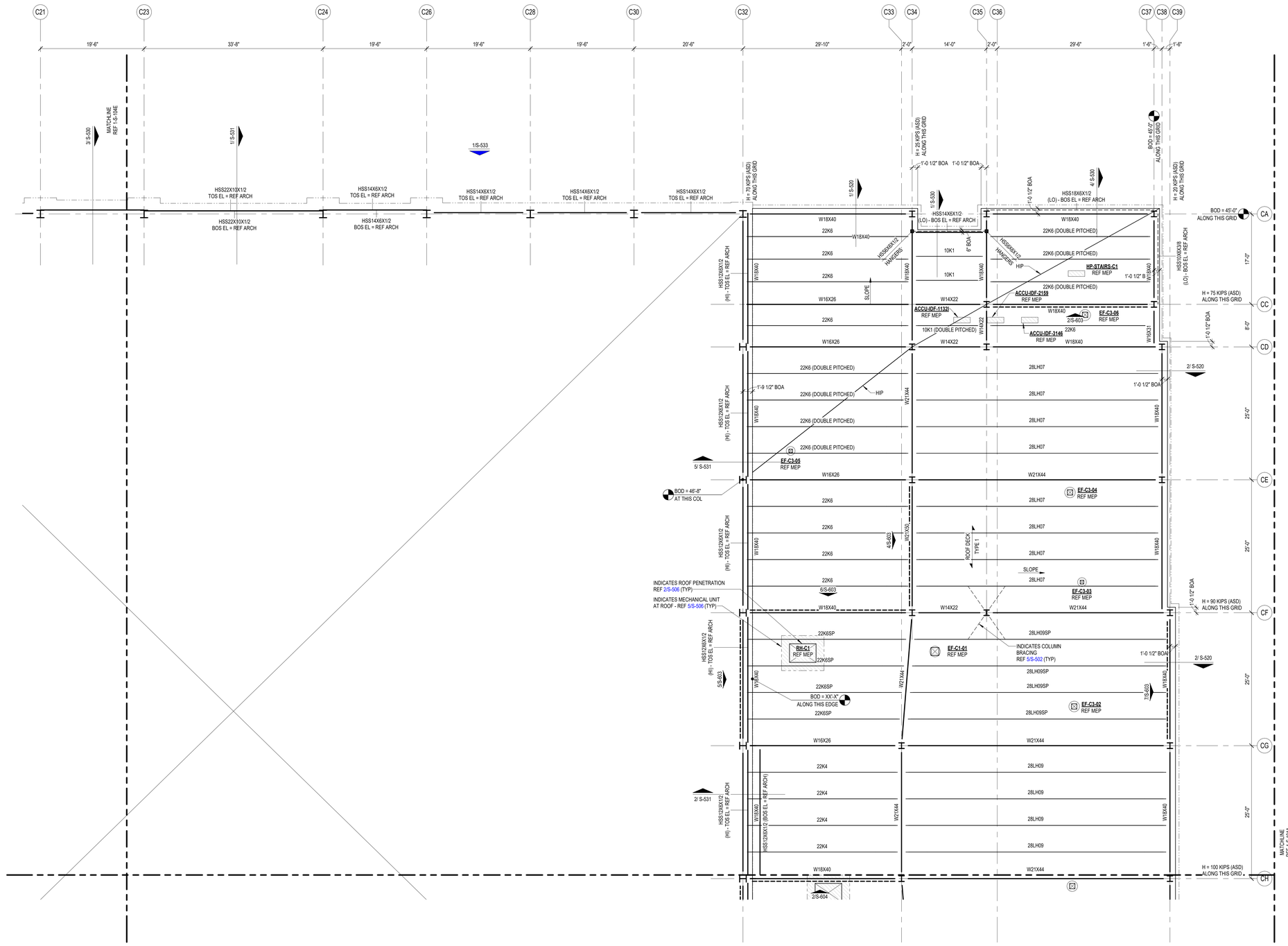
METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

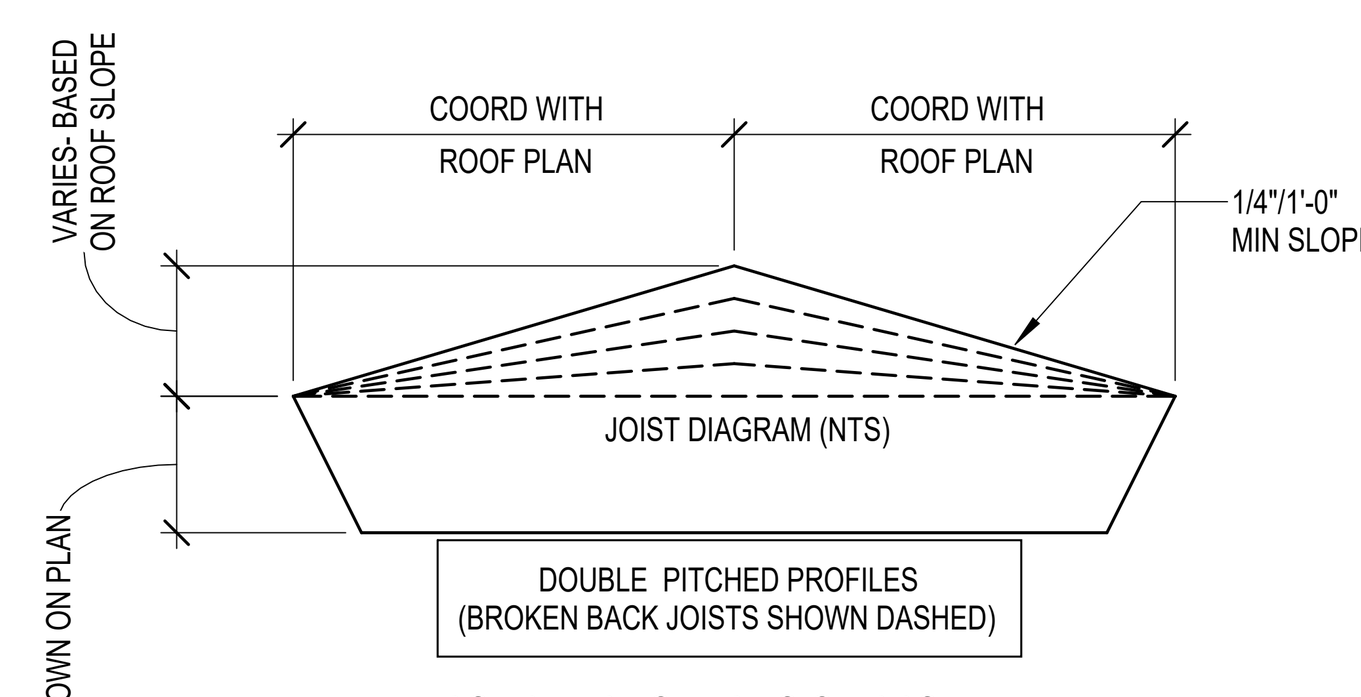
ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-004 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

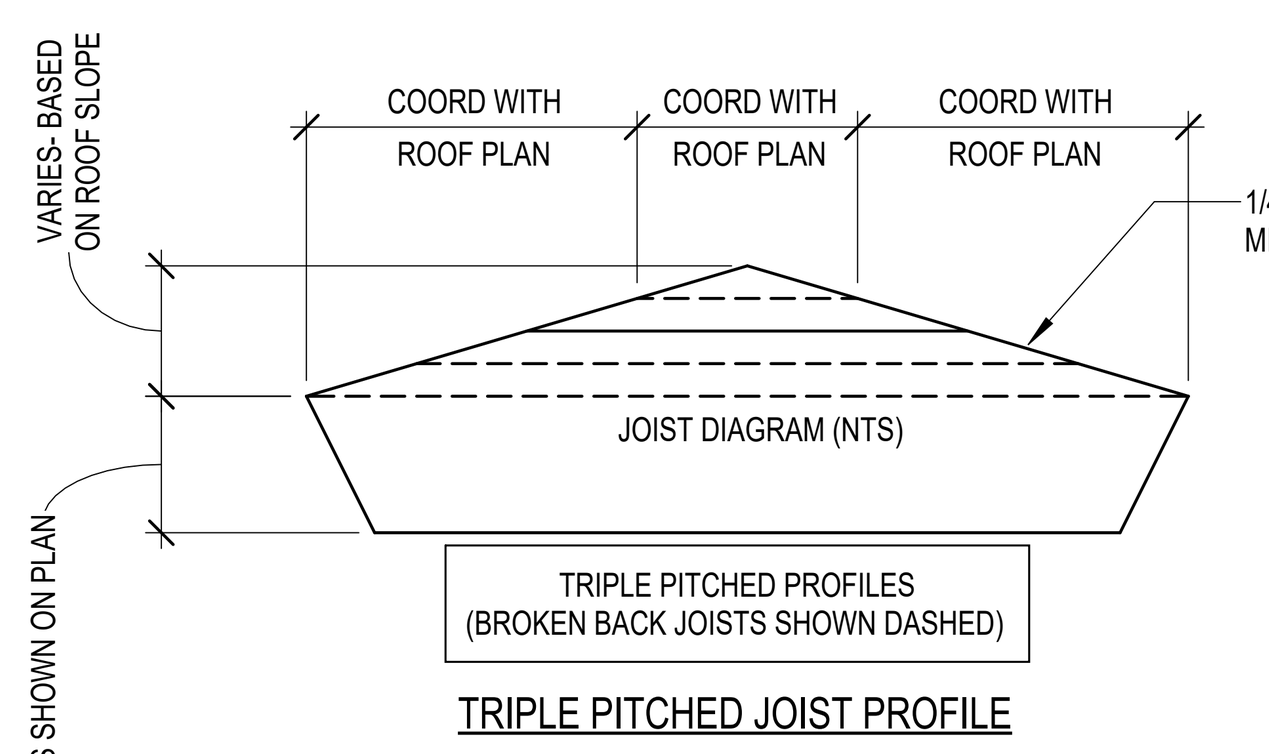

C21
C23
C24
C26
C28
C30
C32
C33
C34
C35
C36
C37
C38
C39
19'-6"
33'-8"
19'-6"
19'-6"
19'-6"
20'-6"
29'-10"
2'-0"
14'-0"
2'-0"
29'-6"
1'-6"
1'-6"
MATCH LINE REF / S-104E
3/ S-530
1/S-501
1/S-533
HSS22X10X1/2 TOS EL = REF ARCH
HSS22X10X1/2 BOS EL = REF ARCH
HSS14X6X1/2 TOS EL = REF ARCH
HSS14X6X1/2 BOS EL = REF ARCH
HSS14X6X1/2 TOS EL = REF ARCH
HSS14X6X1/2 TOS EL = REF ARCH
H = 70 KIPS (ASD) ALONG THIS GRID
H = ≥5 KIPS (ASD) ALONG THIS GRID
1'-0 1/2" BOA
1'-0 1/2" BOA
1/S-501
2/S-530
4/ S-530
HSS14X6X1/2 (LO) - BOS EL = REF ARCH
BOD = 45'-0" ALONG THIS GRID
H = 20 KIPS (ASD) ALONG THIS GRID
CA
W18X40
22K6
W18X40
22K6
22K6
W16X40
HSS12X6X1/2 (HI) - TOS EL = REF ARCH
W16X26
SLOPE
22K6
W16X26
22K6 (DOUBLE PITCHED)
22K6 (DOUBLE PITCHED)
HSS12X6X1/2 (HI) - TOS EL = REF ARCH
1'-9 1/2" BOA
22K6 (DOUBLE PITCHED)
HIP
22K6 (DOUBLE PITCHED)
22K6 (DOUBLE PITCHED)
HSS12X6X1/2 (HI) - TOS EL = REF ARCH
W16X40
22K6
22K6
W16X40
22K6
6/S-603
W18X40
INDICATES ROOF PENETRATION REF 2/S-506 (TYP)
INDICATES MECHANICAL UNIT AT ROOF - REF 5/S-506 (TYP)
HSS12X6X1/2 (HI) - TOS EL = REF ARCH
2/S-603
22K6SP
22K6SP
22K6SP
22K6SP
W16X26
22K4
22K4
22K4
22K4
HSS12X6X1/2 (HI) - TOS EL = REF ARCH
W18X40
HSS12X6X1/2 (BOS EL = REF ARCH)
W18X40
W18X40
W14X22
W14X22
10K1
10K1
10K1 (DOUBLE PITCHED)
W14X22
W18X40
W14X22
W21X44
W21X44
W21X44

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D
S-104D
FOR BLUEBEAM LABELING/OCR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

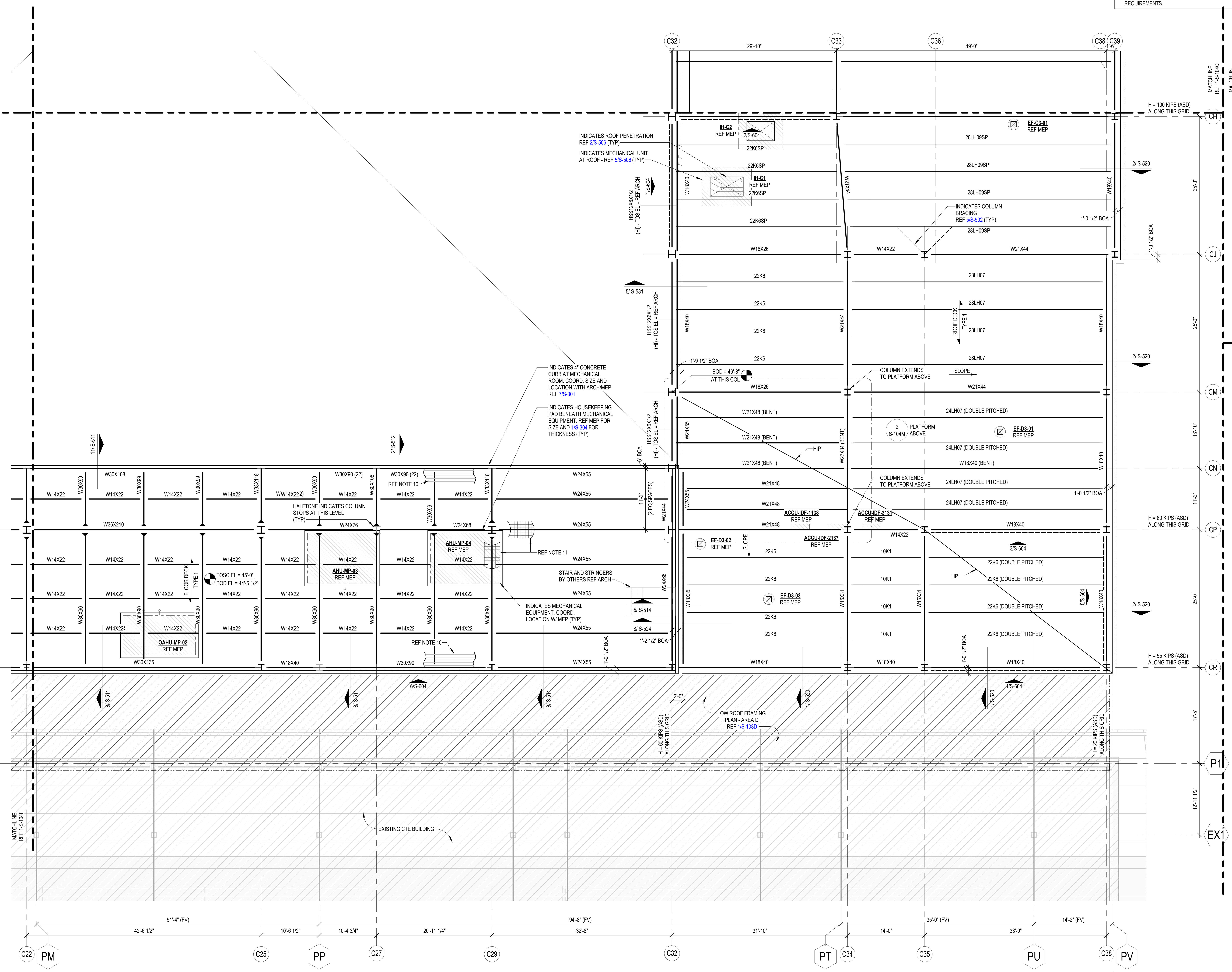
1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE: BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— – – ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507. ETV
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509. ETV
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE ETV ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0" ETV
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [hatched CMU symbol] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.



1 CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D
1/8" = 1'-0"

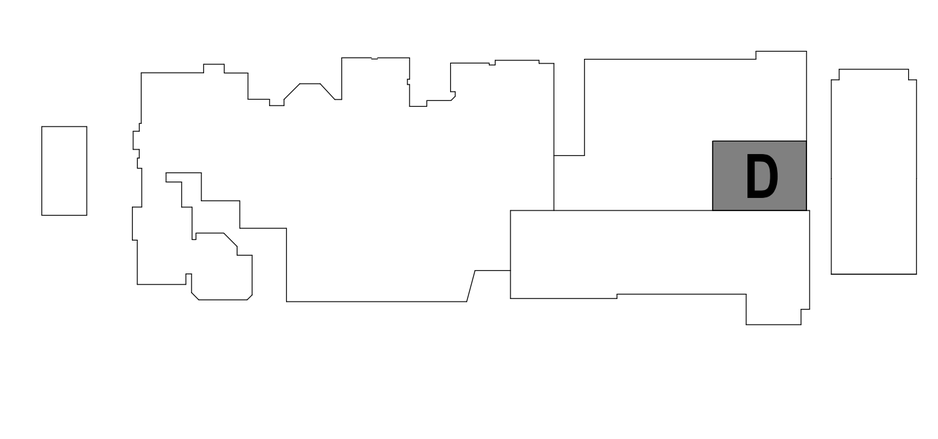
PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

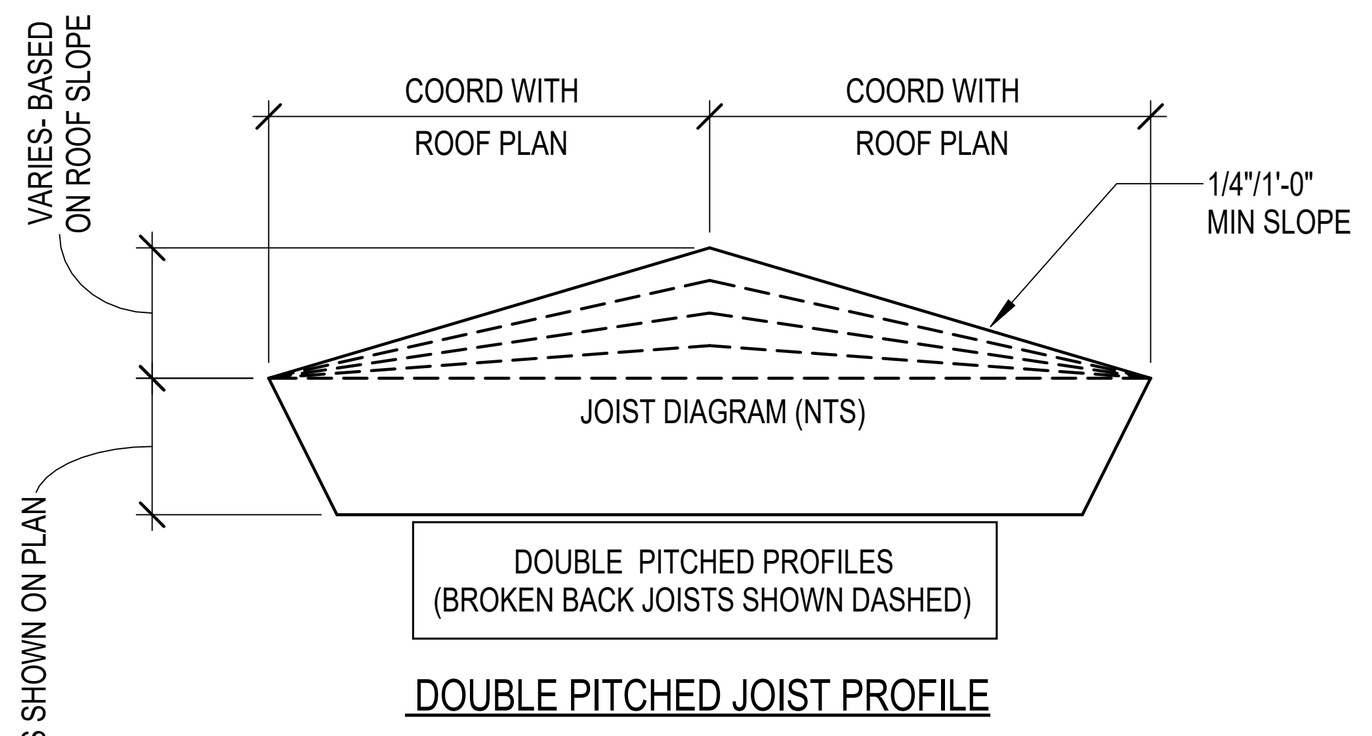
CHECKED BY: SI
DRAWN BY: CML

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D

S-104D

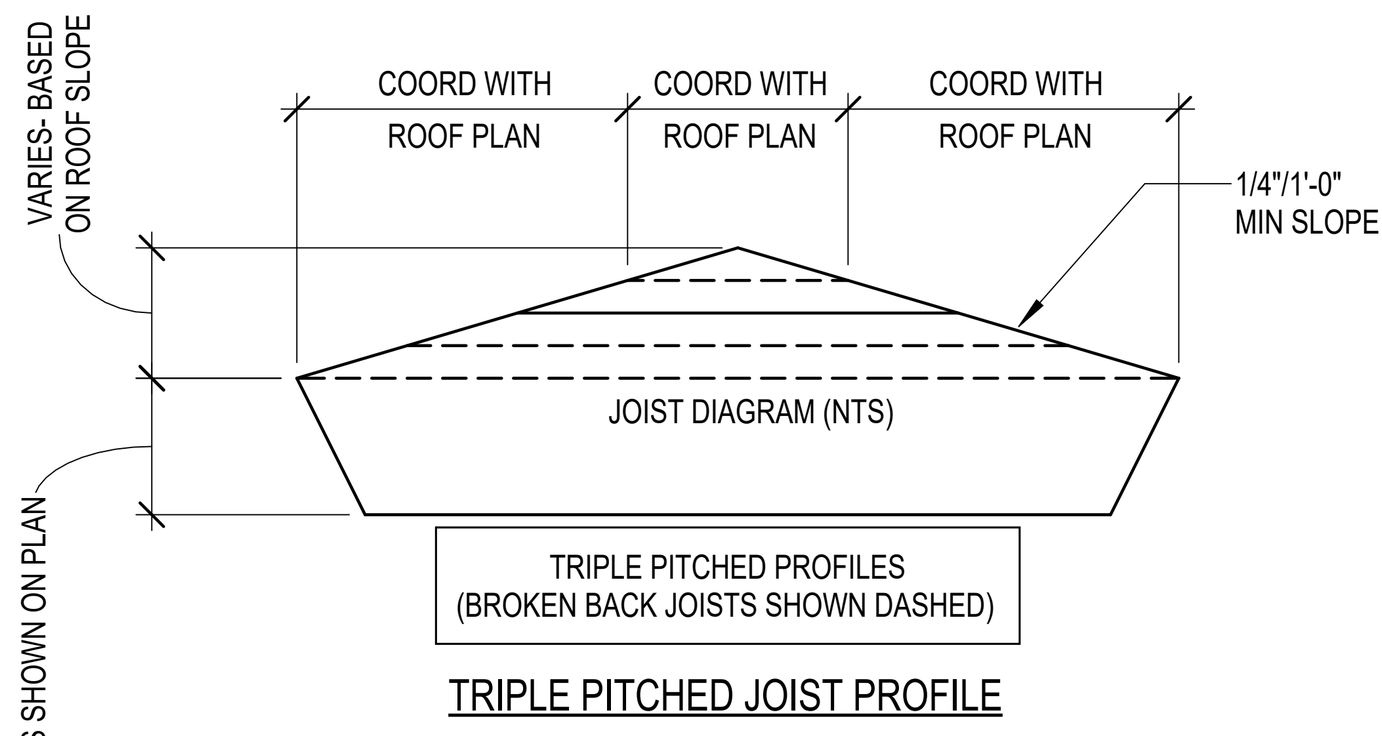
Plot Stamp:
12/5/2025 11:51:47 AM

CLASSROOM LOW ROOF FRAMING PLAN - AREA E
S-104E
FOR BLUEBEAM LABELING/OCR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

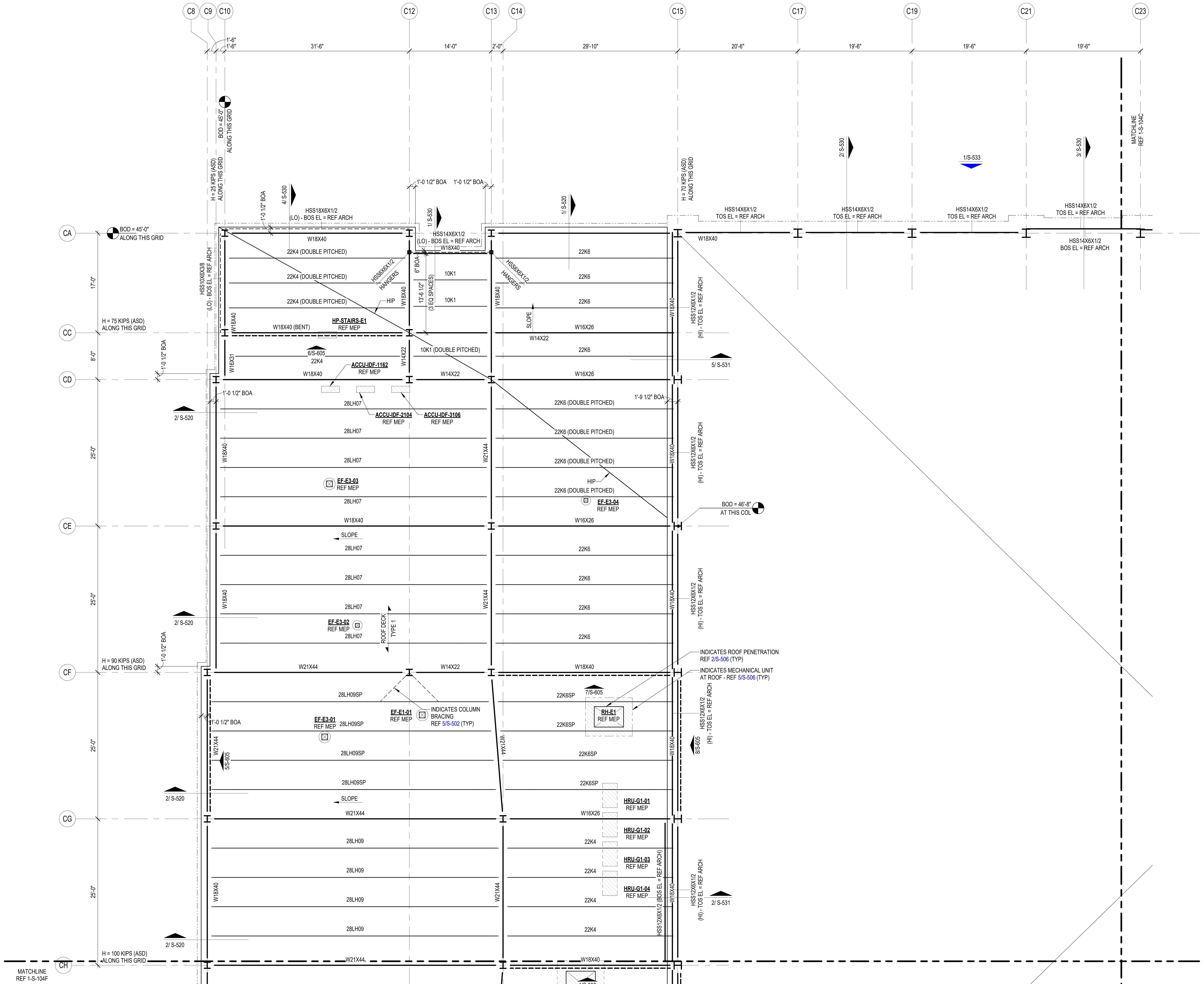
1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.



ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— – – ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507. ETV
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509. ETV
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE ETV ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

1 CLASSROOM LOW ROOF FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
GP
EXCELLENCE IN ALL, FOR ALL, BY ALL

E
KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

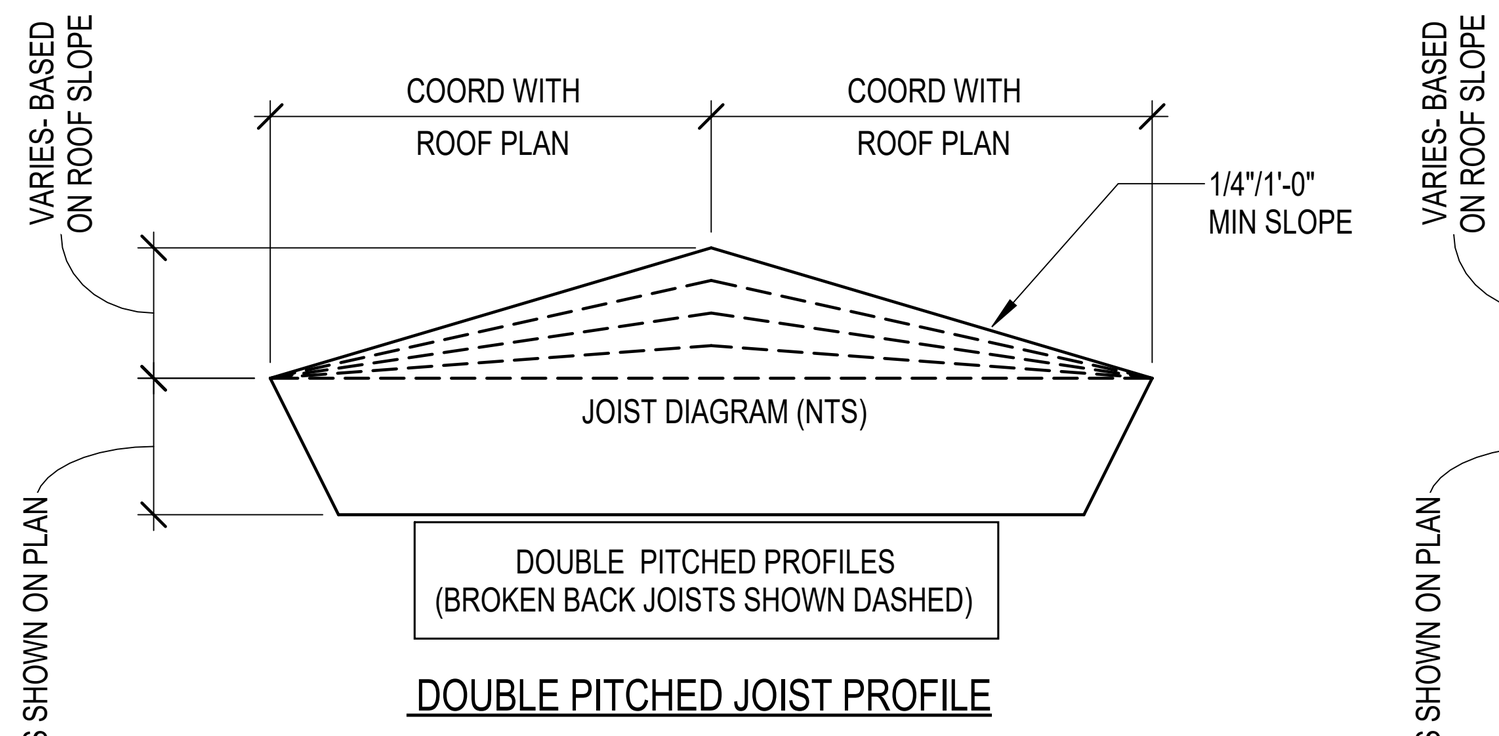
CHECKED BY: SI
DRAWN BY: CML

CLASSROOM LOW ROOF FRAMING PLAN - AREA E

S-104E

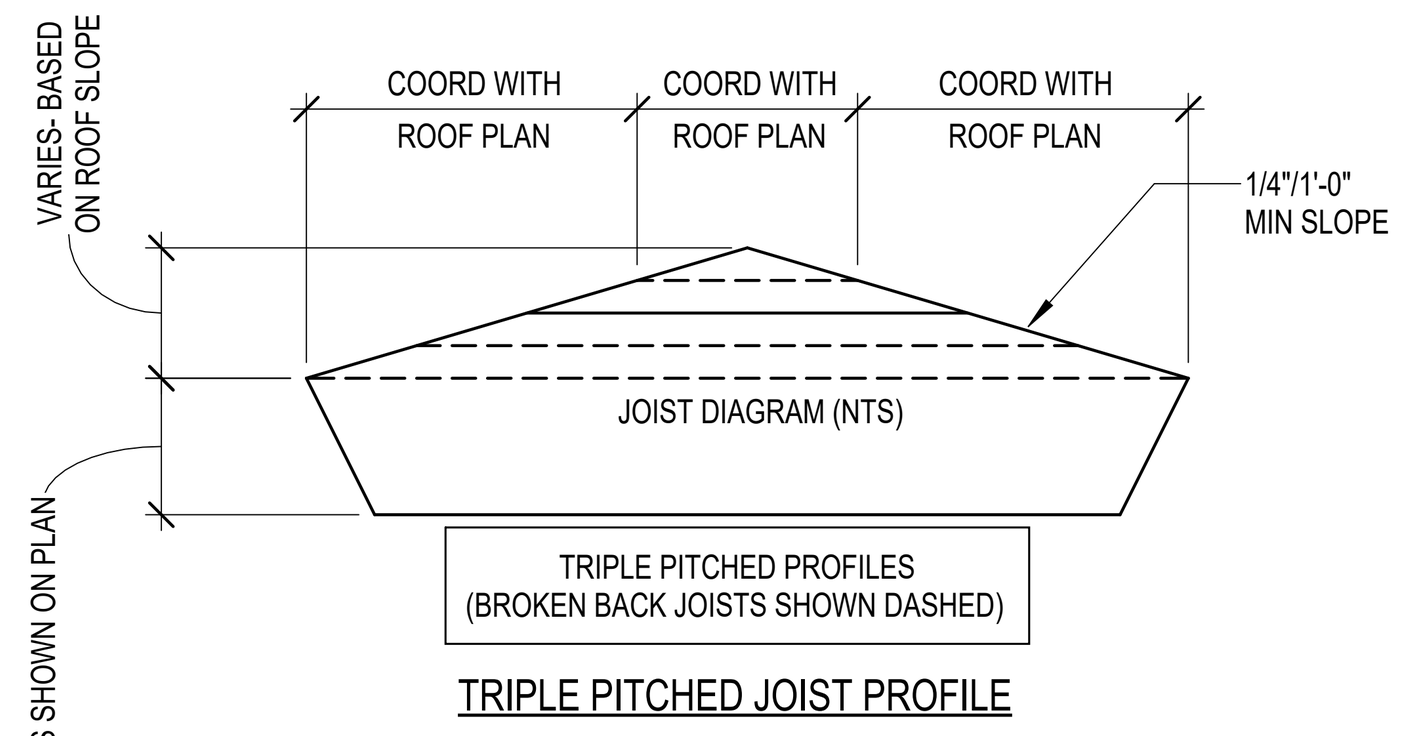
Plot Stamp:
12/5/2025 11:51:50 AM

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F
S-104F
FOR BLUEBEAM LABELING/OCR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
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COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

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FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
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NOTES:

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2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
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ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE: BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
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6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. —— – – —— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
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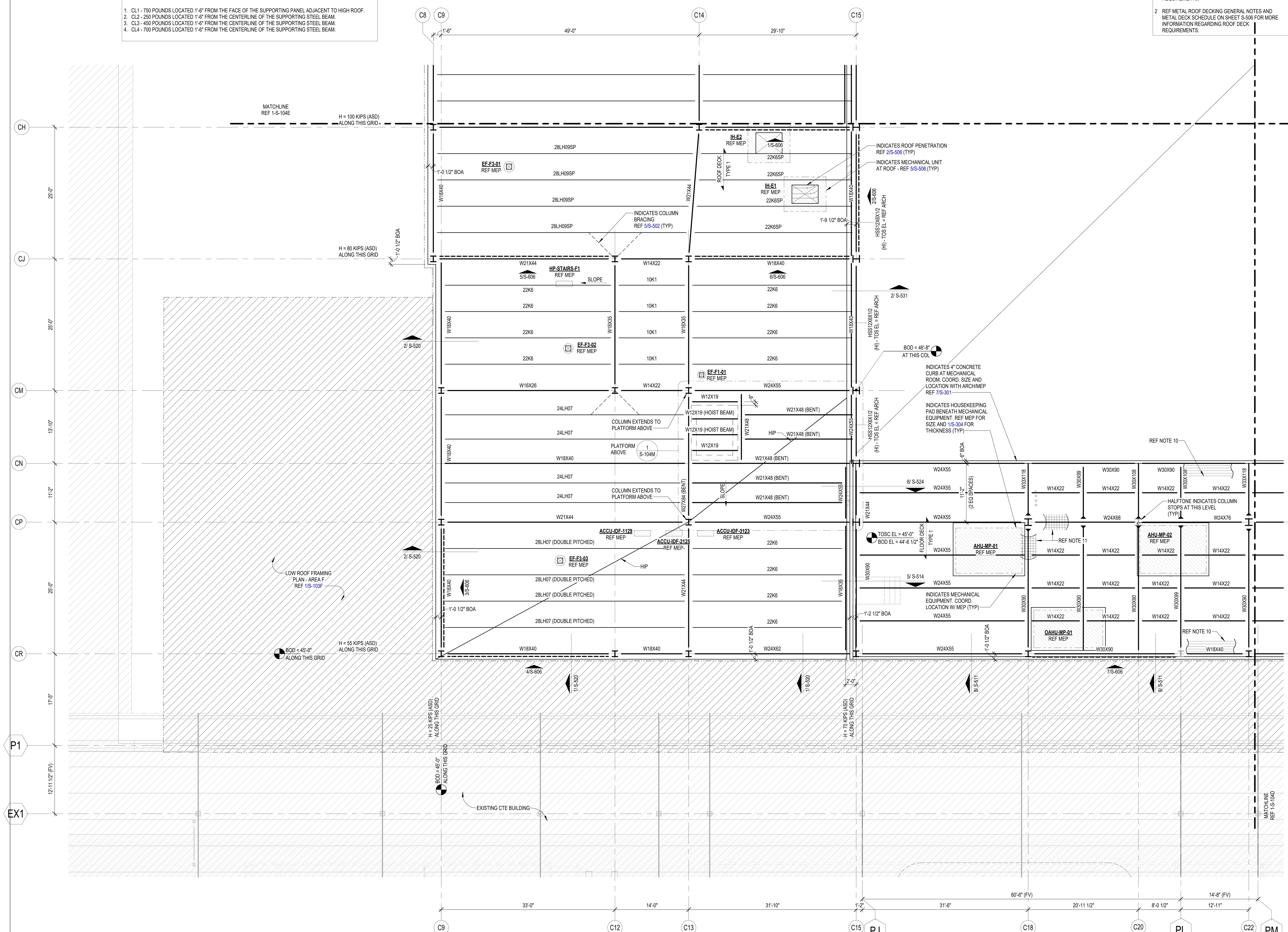
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.



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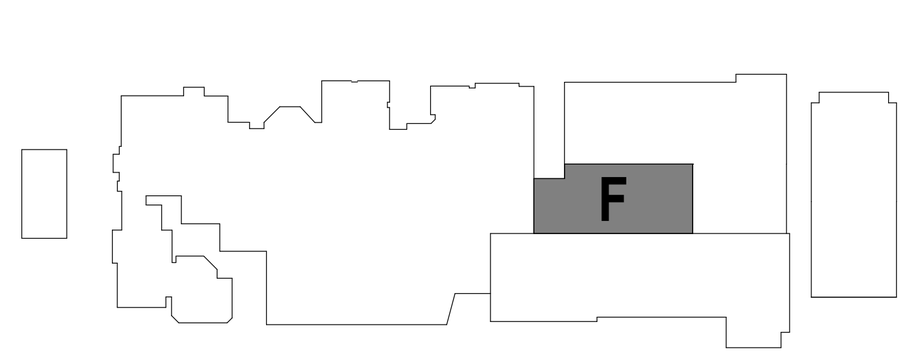
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F

S-104F

Plot Stamp:
12/5/2025 11:51:53 AM

0"

1"

MISC FRAMING PLANS
S-104M
FOR BLUEBEAM LABELINGDOOR:

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN. REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. ⋁ - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

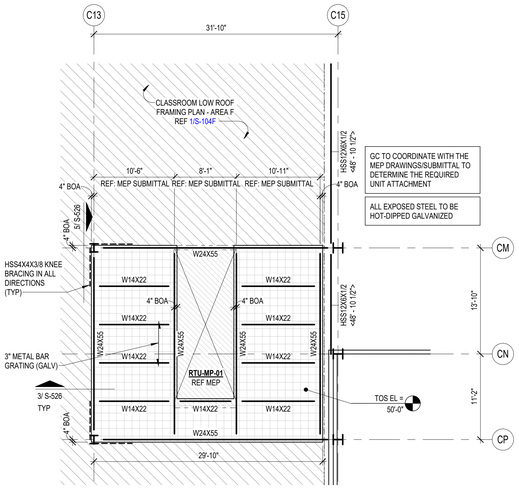
METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK

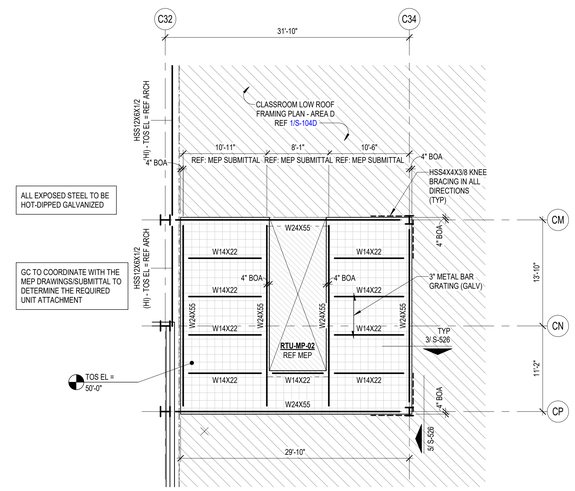
ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



1 CLASSROOM ROOF PLATFORM - AREA F
1/8" = 1'-0"



2 CLASSROOM ROOF PLATFORM - AREA D
1/8" = 1'-0"

PBK
HOUSTON, TX
713-865-6008
TX FIRM: BR 1608
www.pbk.com

Kubala ENGINEERS
www.kubalaengineers.com
TEL 832-831-3263

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL





KEY PLAN
NORTH: PLAN = TRUE



12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

DRAWN BY: CML

MISC FRAMING PLANS

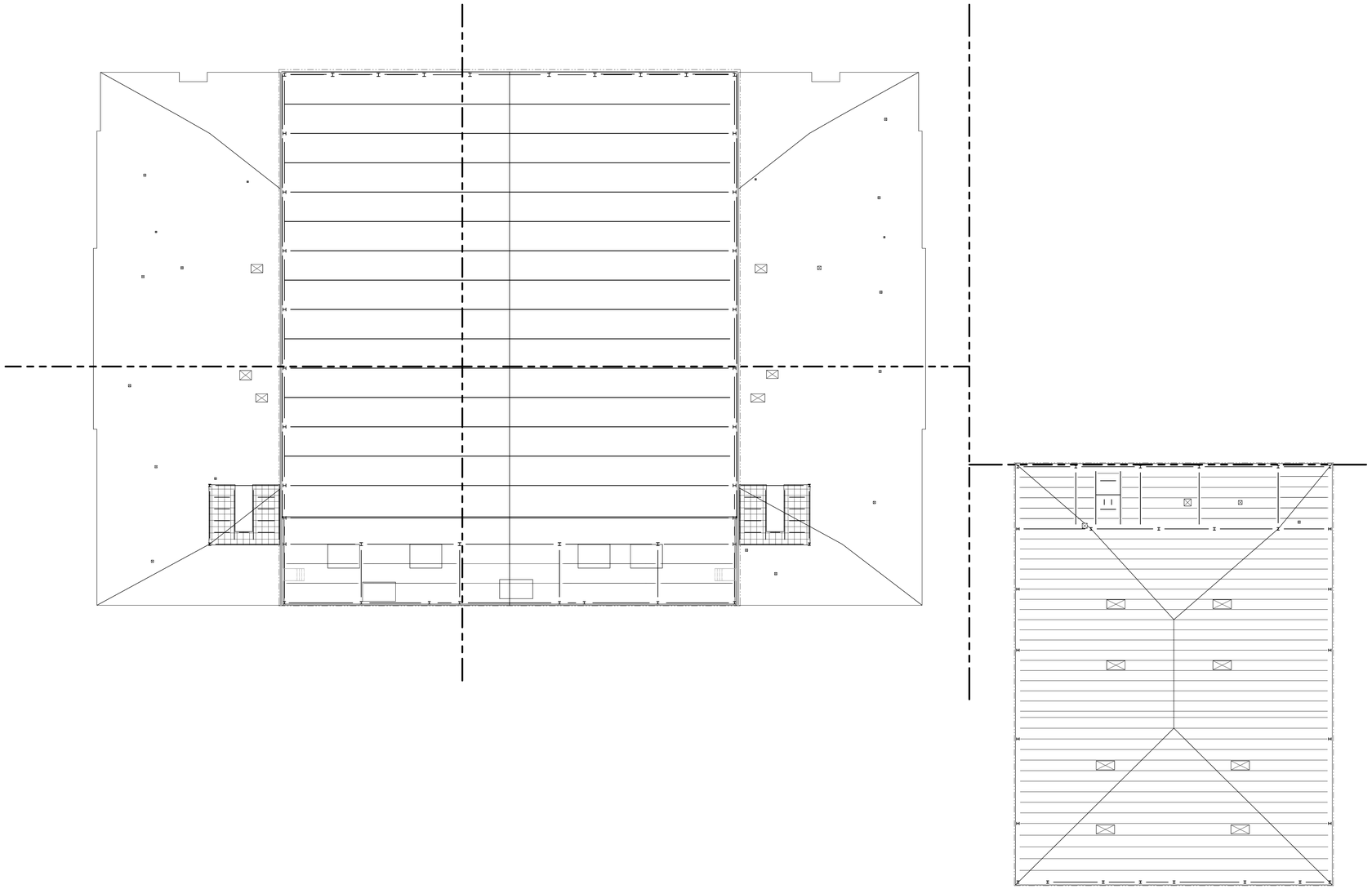
S-104M

Plot Stamp:
12/5/2025 11:51:54 AM

COMPOSITE HIGH ROOF FRAMING PLAN
S-105
FOR BLUEBEAM LABELING/OCR:

0"
1"

COMPOSITE PLAN NOTE:
REFER TO INDIVIDUAL AREA PLANS FOR ALL GRIDS NOT SHOWN.



1 COMPOSITE HIGH ROOF FRAMING PLAN
3/64" = 1'-0"

PBK
HOUSTON, TX
713-965-0608
TX FIRM: BR 1608
www.pbk.com

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

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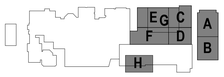
ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

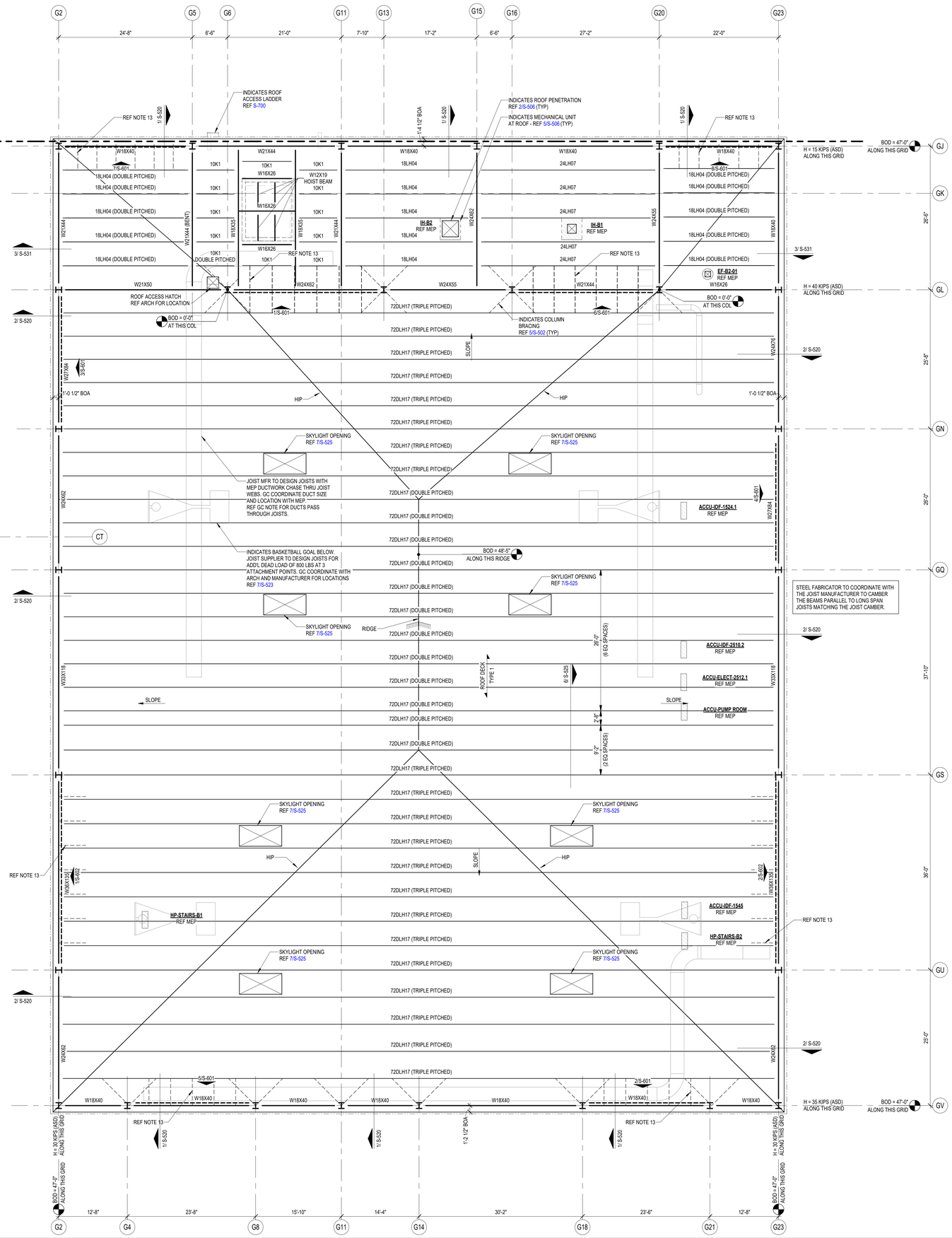
COMPOSITE HIGH ROOF FRAMING PLAN

S-105

Plot Stamp:
12/5/2025 11:51:54 AM

GYM HIGH ROOF FRAMING PLAN - AREA B
S-105B

FOR BLUEBEAM LABEL/NGOOR:


G2
G5
G6
G11
G13
G15
G16
G20
G23
24'-8"
6'-6"
21'-0"
7'-10"
17'-2"
6'-6"
27'-2"
22'-0"
GJ
GK
GL
GN
GQ
GS
GU
GV
CT
BOD = 47'-0" ALONG THIS GRID
H = 15 KIPS (ASD) ALONG THIS GRID
H = 40 KIPS (ASD) ALONG THIS GRID
H = 35 KIPS (ASD) ALONG THIS GRID
H = 30 KIPS (ASD) ALONG THIS GRID
INDICATES ROOF ACCESS LADDER REF S-700
INDICATES ROOF PENETRATION REF 2/S-506 (TYP)
INDICATES MECHANICAL UNIT AT ROOF - REF 5/S-506 (TYP)
INDICATES COLUMN BRACING REF 5/S-502 (TYP)
REF NOTE 13
1'-4 1/2" BOA
1'-0 1/2" BOA
1'-2 1/2" BOA
ROOF ACCESS HATCH REF ARCH FOR LOCATION
BOD = 0'-0" AT THIS COL
SKYLIGHT OPENING REF 7/S-525
JOIST MFR TO DESIGN JOISTS WITH MEP DUCTWORK CHASE THRU JOIST WEBS. GC COORDINATE DUCT SIZE AND LOCATION WITH MEP. REF GC NOTE FOR DUCTS PASS THROUGH JOISTS.
INDICATES BASKETBALL GOAL BELOW. JOIST SUPPLIER TO DESIGN JOISTS FOR ADD'L DEAD LOAD OF 800 LBS AT 3 ATTACHMENT POINTS. GC COORDINATE WITH ARCH AND MANUFACTURER FOR LOCATIONS REF 7/S-523
RIDGE
HIP
SLOPE
ROOF DECK TYPE 1
IH-B2 REF MEP
IH-B1 REF MEP
EF-B2-01 REF MEP
ACCU-IDF-2510.2 REF MEP
ACCU-IDF-1524.1 REF MEP
ACCU-ELECT-2512.1 REF MEP
ACCU-PUMP ROOM REF MEP
HP-STAIRS-B1 REF MEP
ACCU-IDF-1545 REF MEP
HP-STAIRS-B2 REF MEP
72DLH17 (TRIPLE PITCHED)
72DLH17 (DOUBLE PITCHED)
18LH04 (DOUBLE PITCHED)
24LH07
W18X40
W21X44
W21X50
W16X26
W12X19 HOIST BEAM
W24X62
W24X55
W21X44 (BENT)
W18X35
W21X68
W24X76
W27X94
W30X148
W30X191
W33X118
W40X249
W40X362
W24X68
W24X84
W18X40
W21X101
W24X103
W24X131
W24X146
W24X162
W24X192
W24X207
W24X229
W24X250
W24X279
W24X306
W24X335
W24X370
W24X408
W24X450
W24X492
W24X535
W24X583
W24X629
W24X676
W24X720
W24X768
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W24X2010
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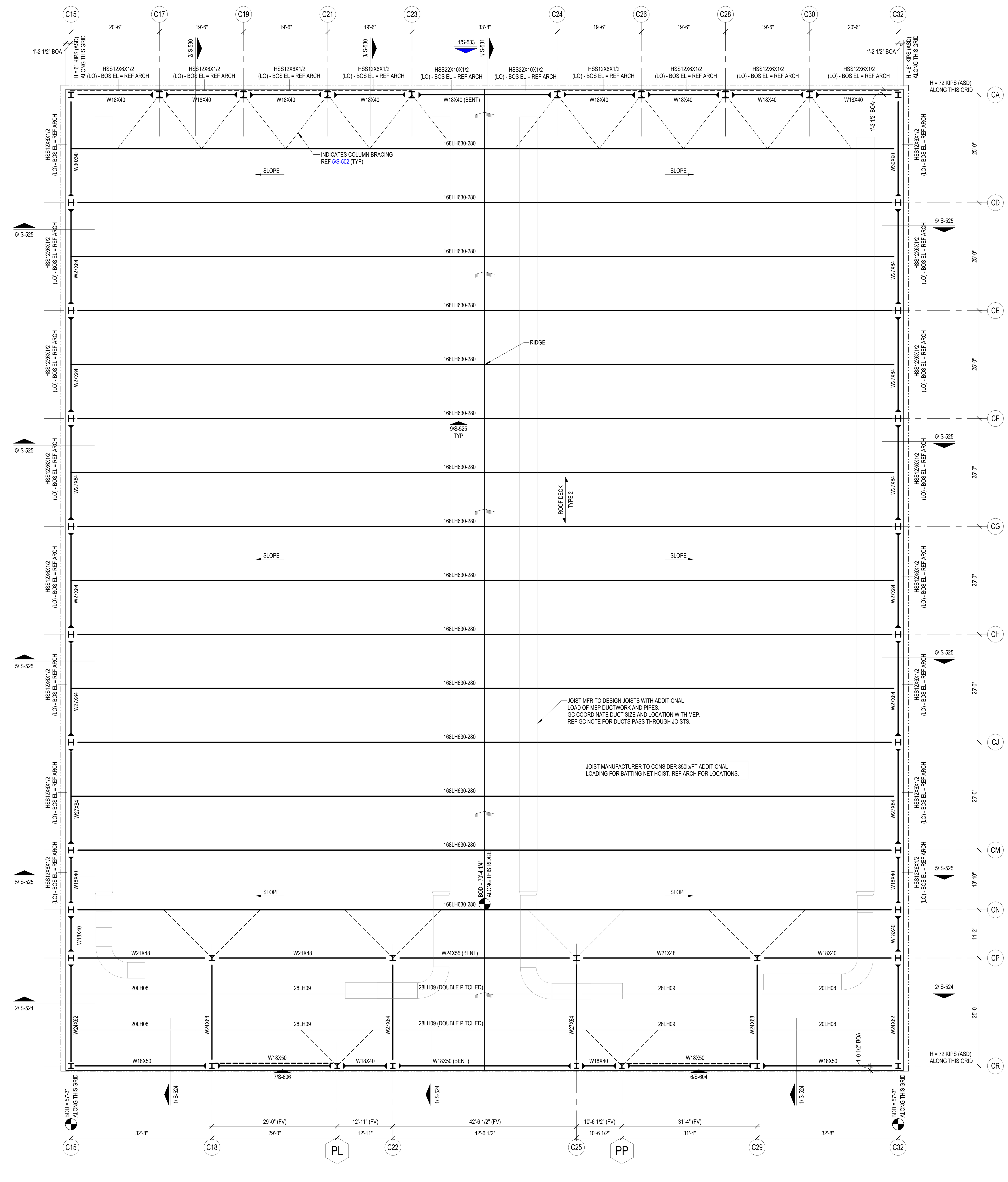
W24X2960

CLASSROOM HIGH ROOF FRAMING PLAN - AREA G
S-105G
FOR BLUEBEAM LABELING/OCR:



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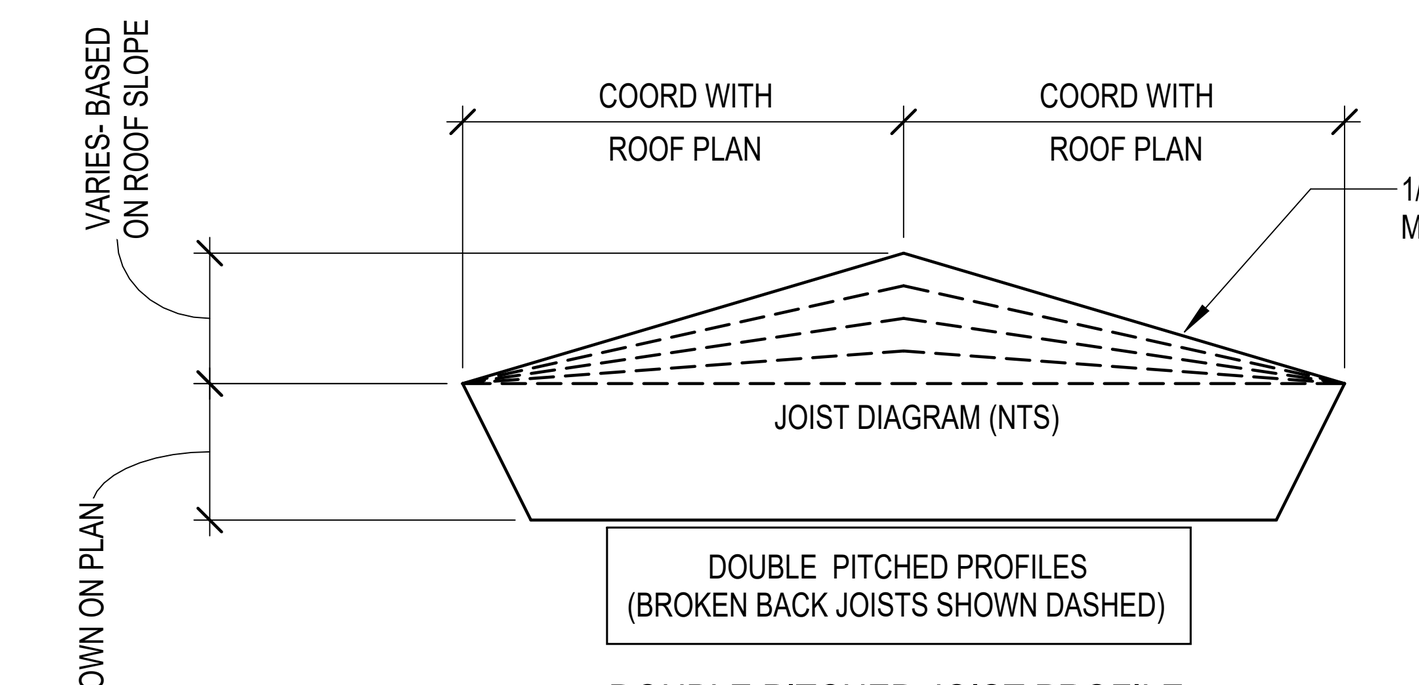
1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

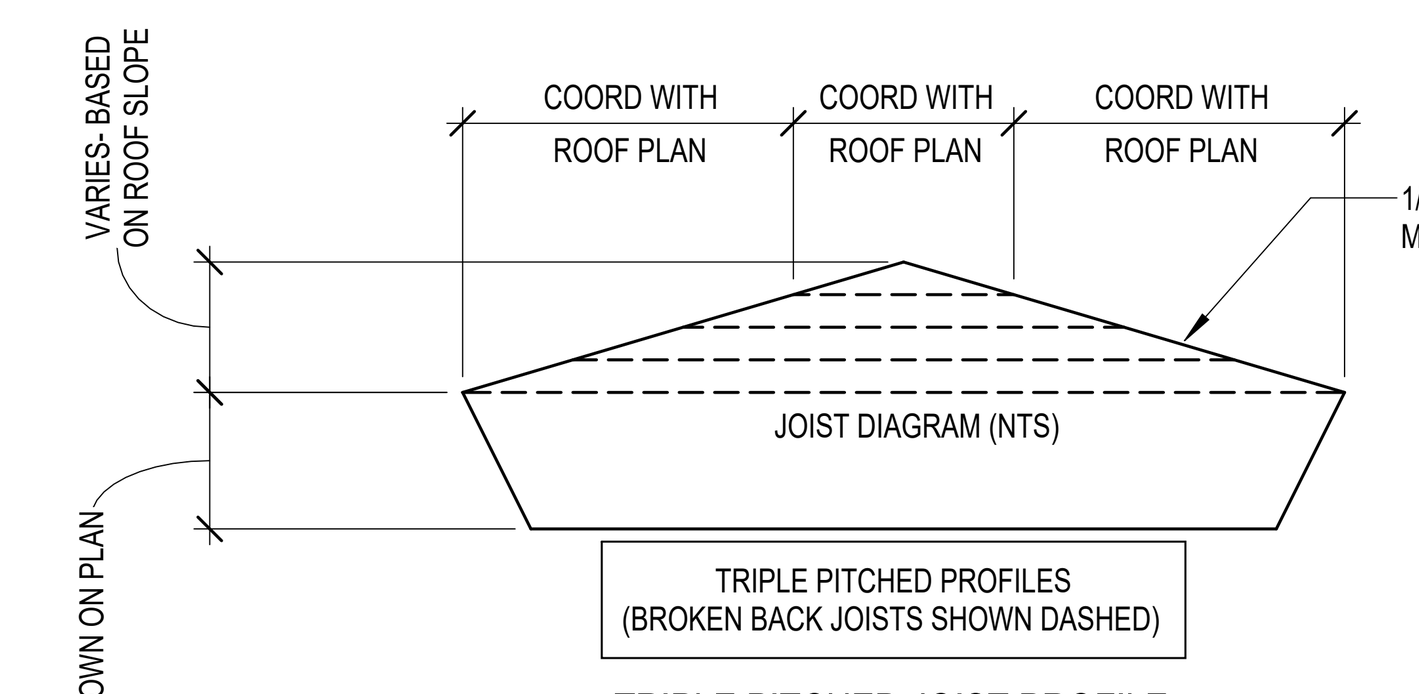
GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. —— – – —— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507. ETV
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509. ETV
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BE ETV ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

1 CLASSROOM HIGH ROOF FRAMING PLAN - AREA G
3/32" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

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Galena Park ISD
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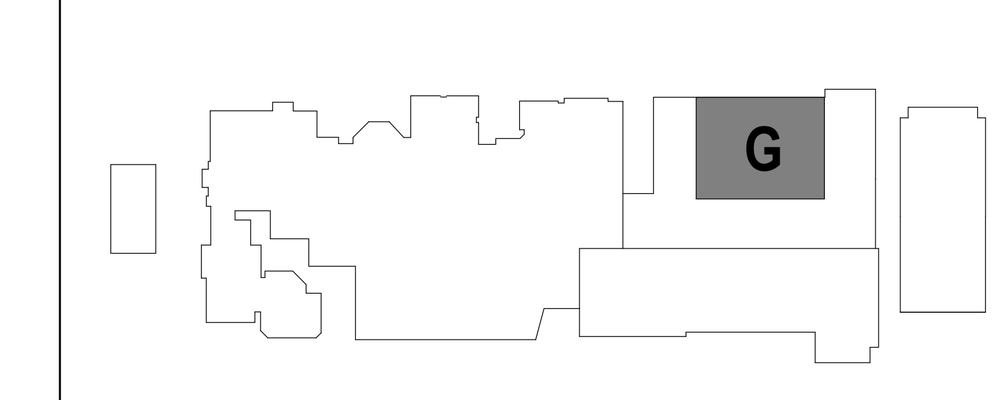


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

CLASSROOM HIGH ROOF FRAMING PLAN - AREA G

S-105G

Plot Stamp:
12/5/2025 11:52:00 AM

0"
1"

GENERAL CONCRETE AND STL REINF NOTES AND TYP DETAILS
S-300

FOR BLUEBEAM LABELING/OCR:

ETW FOOTINGS ARE NOT INTENDED FOR CONTINUOUS SEE NOTES IN TABLE ABOVE FOR SMALL INDURA WALL MIX

ETW AT 12" OR PLAN TO LOWER THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE (3,500 PSI) FOR FIRE RATING REQUIREMENTS

3/4" FOR ALL SHELTERS OR PROJECTS IN WIND-BORNE DEBRIS ZONE

VERIFY ALL WITH U.S. ASSEMBLY VERIFY IF THEY CAN DO 110 PCF OR 120 PSI PER UL ASSEMBLY HOWEVER 120 PSF FOR WEDGE

CONCRETE MIX:

1. CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:

USAGE	CONCRETE MIX DESIGN SCHEDULE									
	28 DAY STRENGTH (PSI)				MAX AGGREGATE SIZE (IN)	SLUMP (IN)	MAX W/C RATIO	MAX CURE DENSITY (PCF)	CEMENT TYPE	MAX ALLOWABLE % FLY ASH (REF CM5)	% AIR ENTRAINMENT
	3000	3500	4000	5000							
1. PIERS			•		1 1/2	6-8	0.55	150	I / II	40	-
2. FOOTINGS			•		1	3-5	0.50	150	I / II	30	5
3. SLAB-ON-GRADE **			•		1	3-5	0.50	150	I / II	20	-
4. GRADE BEAMS AND PLINTHS **			•		1	3-5	0.50	150	I / II	20	-
5. BEAMS			•		1	3-5	0.50	150	I / II	20	-
6. WALLS **			•		1	6-8	0.50	150	I / II	30	5
7. RETAINING WALLS **				•	1	6-8	0.50	150	I / II	20	3-5
8. NORMAL WEIGHT SLAB ON COMPOSITE METAL DECK			•		1	3-5	0.45	150	I / II	20	-
9. LIGHT WEIGHT SLAB ON COMPOSITE METAL DECK			•		1	3-5	0.45	117 ± 3	I / II	20	5.5
10. SLAB-ON-VOID FORMS **			•		1	3-5	0.50	150	I / II	20	-
11. SLAB FOR EQUIPMENT PADS			•		1	3-5	0.45	150	I / II	20	5- 7 IF EXPOSED TO WEATHER
12. NON-COMPOSITE TOPPING SLAB		•			1	5-7	0.45	150	I / II	-	-

** - SPECIAL GC NOTE FOR CONCRETE WHICH IS PART OF A DEPRESSED AREA. SEE CONCRETE MIX NOTE 10.

2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, OF TYPES NOTED IN SCHEDULE. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM A SINGLE SOURCE.
3. FLY ASH WILL NOT BE PERMITTED IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH MAY BE USED ELSEWHERE, WITHIN THE SPECIFIED PROPORTION LIMITS, BUT THE CONTRACTOR SHALL FIRST VERIFY COMPATIBILITY WITH CURING COMPOUNDS, SEALERS, BOND BREAKER, FLOORING ADHESIVES AND OTHER MATERIALS PROPOSED TO BE IN CONTACT WITH THE CONCRETE.
4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF 7 DAYS PRIOR TO THE START OF THE WORK FOR ENGINEER AND OWNERS TESTING LABORATORY APPROVAL. PRIOR TO THE PLACEMENT OF CONCRETE, MIX DESIGNS MUST INDICATE CONFORMANCE WITH ACI 301 SPECIFICATION, SECTION 4.2.3.
5. AT THE POINT OF DISCHARGE SLUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN. SEE CONCRETE NOTE NO. 5 BELOW FOR RATE OF TESTS.
6. AIR CONTENT TESTS CONFORMING TO ASTM C173 (VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE) SHALL BE TAKEN FOR EACH DAY'S POUR FOR ALL TYPES OF AIR-ENTRAINED CONCRETE BEING USED.
7. CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN THE AIR TEMPERATURE IS 40 DEG F AND BELOW, 80 DEG F AND ABOVE AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.
8. ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLDED AND STORED FOR LABORATORY-CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.
9. VERIFY THAT POST INSTALLED ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
10. **SPECIAL GC NOTE FOR CONCRETE WHICH IS PART OF A DEPRESSED AREA:**
    A. AT ALL DEPRESSIONS GREATER THAN OR EQUAL TO MINUS 6 INCHES FROM THE MAIN FINISH FLOOR THE GC SHALL PROVIDE XYPEX C-500 ADMIXTURE (AT AN ASSUMED MINIMUM RATE OF 15 LBS/CU YD) INTO ALL OF THE CONCRETE. THE ADMIXTURE SHALL BE PLACED INTO THE MIX AT THE TIME OF BATCHING AT THE PLANT. DO NOT ADD DRY BAG MIX TO THE WET CONCRETE TRUCK ON-SITE. THE GC SHALL STRICTLY FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR ADDITION, USE, HANDLING, ETC. THE ADD MIXTURE SHALL BE ADDED TO ALL OF THE CONCRETE WHICH MAKES UP ANY DEPRESSION GREATER THAN OR EQUAL TO MINUS 6 INCHES FROM THE MAIN FINISH FLOOR, THIS INCLUDES BUT IS NOT LIMITED TO: DEPRESSED SLABS (FULL THICKNESS), ALL VERTICAL STEM WALLS (FULL THICKNESS) AND/OR ANY GRADE BEAMS (FULL DEPTH AND THICKNESS) WHICH FORM ANY PORTION OF THE VERTICAL DROP AND ALL HORIZONTAL SLAB FOR THE DEPRESSED AREA. THIS DOES NOT REDUCE OR REVISE ANY WATERPROOFING TREATMENTS, LAYERS OR SUBSTRATES THAT ARE CURRENTLY REQUIRED BY THE STRUCTURAL, ARCHITECTURAL, AND/OR OTHER CONSULTANT DRAWINGS, THIS IS IN ADDITION TO THOSE CURRENT MEASURES. THE COST FOR THIS ADMIXTURE SHALL BE ACCOUNTED FOR WITHIN THE BASE BID AND SHALL INCLUDE, BUT IS NOT LIMITED TO ALL AREAS ARCHITECTURALLY LABELED AS FOLLOWS: ORCHESTRA PIT, ALL ELEVATOR PITS, AND THE BELOW GRADE FLY-LOFT RIGGING PIT. PLEASE NOTE: XYPEX C-500 HAS BEEN CHOSEN AS A NEUTRAL MIX ADDITIVE THAT IS NOT INTENDED TO CHANGE THE CURRENTLY PLANNED CONCRETE SET TIME. IF FOR SOME REASON THE SET TIME IS DESIRED TO BE INCREASED OR DECREASED XYPEX DOES HAVE ALTERNATIVE FORMULATIONS WHICH MAY BE USED; HOWEVER, THE GC MUST GET WRITTEN APPROVAL FROM THE EOR PRIOR TO ANY CHANGE IN THE XYPEX C-500 FORMULATION. THE XYPEX C-500 IS AN ADDITIONAL MOISTURE INTRUSION MITIGATION MEASURE THAT IS REQUIRED IN ADDITION TO THE SPECIFIED WATERSTOPS NOTED IN THE OTHER GENERAL NOTES AND DETAILS RELATED TO CONCRETE COLD-JOISTS AND OTHER CONCRETE TRANSITIONS OF PLANE.

CAST-IN-PLACE CONCRETE:

1. CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE LATE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.
2. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE; ACI 301 AND ACI 318, LATEST EDITIONS.
3. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE SHOWN ON THE DETAILS. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
4. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE; ACI 301 AND ACI 318, LATEST EDITIONS.
5. ALL BASE PLATES AND ANCHOR BOLTS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR BOLTS SHALL BE FABRICATED FROM FULL BODIED ASTM F1554, GRADE 36 LOW CARBON STEEL RODS HAVING THE SAME DIAMETER AS THE BOLT DIAMETER AND USING CUT THREADS. ROLLED THREADS ARE NOT ACCEPTABLE. BOLTS SHALL BE SET USING RIGID TEMPLATES.
6. AT HORIZONTAL CONCRETE FRAMING, FORMS SHALL NOT BE REMOVED UNTIL THE CONCRETE HAS REACHED 70 PERCENT OF THE 28-DAY COMPRESSIVE STRENGTH INDICATED. FLOOR SLABS AND BEAMS SHALL REMAIN SHORED UNTIL THE UPPER MOST LEVEL OF CONCRETE HAS REACHED 70 PERCENT OF THE 28-DAY COMPRESSIVE STRENGTH. FOR BUILDINGS WITH MORE THAN THREE STORIES IN HEIGHT, SHORING SHALL BE MAINTAINED FOR THREE LEVELS BELOW, UNTIL THE UPPER MOST LEVEL HAS REACHED 70 PERCENT OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
7. ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH ALL PROVISIONS SPECIFIED IN ACI 318,SECTION 26.8, WITH THE FOLLOWING SPECIFIC REQUIREMENTS:
    A. THE MAXIMUM OUTSIDE DIAMETER OF THE CONDUITS AND PIPES SHALL BE 1 1/2". NONE PERMITTED IN SLABS THINNER THAN 4 1/2".
    B. THE MINIMUM CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL BE 6".
    C. NONE PERMITTED IN SLABS-ON-GRADE WHICH WILL BE PERMANENTLY EXPOSED OR SCHEDULED TO RECEIVE THIN SET TILE. PLACE ALL PIPES AND CONDUITS IN THE FILL BENEATH THE VAPOR BARRIER. RE-COMPACT AS SPECIFIED.
    D. IN NON-EXPOSED SLABS-ON-GRADE. LIMIT SIZE TO 1" O.D. IN 5" SLAB SPACE 12" APART AND TIE TO UNDERSIDE OF REINFORCING MAT. WHERE LINES CONVERGE AT SOURCE, DOUBLE UP THE SLAB REINFORCING IN THE CONVERGENCE ZONE AND 3'-0" BEYOND. PLACE ALL LARGER LINES IN THE FILL BENEATH THE VAPOR BARRIER.
    E. NONE PERMITTED IN COLUMNS WITHOUT PRIOR APPROVAL.
    F. DO NOT DISPLACE REINFORCING STEEL FROM ITS PROPER POSITION.
8. PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS AND WALLS, IN ACCORDANCE WITH THE TYPICAL CONCRETE DETAILS.
9. PLACE WATERSTOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW GRADE AND ELSEWHERE AS CALLED FOR.
10. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.
11. SET FORMS TO FOLLOW SLOPES AND GRADES DEFINED ON PLAN, KEEPING MEMBER DEPTHS CONSTANT AT DEPTHS DETAILED OR SCHEDULED, UNLESS NOTED OTHERWISE. SLOPE UNIFORMLY BETWEEN ELEVATIONS GIVEN. BUILD IN CAMBER WHERE SPECIFIED.
12. CONSTRUCTION JOINTS PERMITTED ONLY WHERE INDICATED ON DRAWINGS. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, LOCATE THE JOINTS AS FOLLOWS:
    A. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF NON-POST-TENSIONED SLABS, BEAMS OR GIRDERS, UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE WIDTH OF BEAM. LOCATE VERTICAL JOINTS WITHIN THE END THIRD OF SPANS OF POST TENSIONED CONTINUOUS SLABS, BEAMS OR GIRDERS WHERE TENDON PROFILE IS AT OR NEAR THE CENTROID OF THE CONCRETE CROSS SECTION.
    B. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF SUPPORTED ELEMENTS AT THE TOP OF THE WALL OR COLUMN AND AT THE TOP OF FOOTINGS OR FLOOR SLABS AT THE BOTTOM OF THE WALL OR COLUMN. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
    C. REFER TO PLANS FOR JOINTS IN GRADE SUPPORTED SLABS.
    D. JOINTS ARE NOT ALLOWED BETWEEN PILASTERS AND BEAM/WALL THAT ARE MONOLITHIC.
    E. SUBMIT CONSTRUCTION JOINT LAYOUT PLANS FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
13. *****GC NOTE*****
    A. AT ALL CONCRETE COLD JOINTS OR TRANSITIONS BETWEEN PLANES: VERTICAL TO VERTICAL POURS, HORIZONTAL TO HORIZONTAL POURS, HORIZONTAL TO VERTICAL POURS, AND VERTICAL TO HORIZONTAL POURS, THE GC SHALL PROVIDE A CONTINUOUS WATER STOP WITHIN EACH JOINT. WATERSTOP MANUFACTURERS AND TYPES SHALL BE AS APPROVED IN THE SPECS AND THE GENERAL NOTES. ALL WATER STOPS MUST BE APPROPRIATE FOR THE CONDITION BASED ON THE MANUFACTURER'S DATA. THE GC SHALL BE IN STRICT COMPLIANCE WITH ALL MANUFACTURERS' USE, HANDLING, AND INSTALLATION INSTRUCTIONS. AT A MINIMUM, THE GC SHALL ASSUME A DUMBBELL-TYPE WATER STOP WITH WINGS THAT EXTEND TO EACH SIDE OF THE CONCRETE FOR EACH JOINT UNLESS OTHERWISE NOTED WITHIN THE CD'S TO BE AN ALTERNATE ACCEPTABLE WATER STOP TYPE.
    B. ADDITIONALLY, CONCRETE USED AT A SLAB DEPRESSION WITH A DEPTH GREATER THAN 6 INCHES, THE CONCRETE ADDITIVE XYPEX C-500 SHALL BE INCLUDED IN THE CONCRETE MIX. REFER TO CONCRETE MIX SCHEDULE FOR CONCRETE MIXES WHICH MAY REQUIRE XYPEX C-500 AND CONCRETE MIX NOTE 10 FOR ADDITIONAL INFORMATION.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL CONFORM TO ASTMA615. BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURE. REINFORCING BARS SIZE #3 THROUGH #10 SHALL BE GRADE 60. REINFORCING BARS SIZE #11 THROUGH #18 SHALL BE GRADE 75.
2. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GRADE 70.
3. ALL WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A185, AND SHALL BE FURNISHED IN FLAT SHEETS.
4. CONCRETE COVERAGE AROUND REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 SECTION 20.6, LATEST EDITION, AND MEET REQUIREMENTS BELOW. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL CAGE SIZES AT INTERSECTING REINFORCING MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING BARS. SLAB ON GRADE REINFORCEMENT SHALL BE \ SUPPORTED AT EVERY THIRD BAR, NOT TO EXCEED 45-INCH INTERVALS.

FOOTINGS/PIERS	3 IN
GRADE BEAMS	3 IN BOT; 2 IN SIDES (3" IF CAST AGAINST SOIL), 2 IN TOP
SLAB ON GRADE	2 IN TOP
SLAB BOTTOMS OVER VOID FORM	
COLUMNS NOT EXPOSED TO WEATHER OR	
IN CONTACT WITH THE GROUND (TYP INTERIOR CONDITIONS)	1 5/8"

5. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315, LATEST EDITION. ALL HOOKED BARS SHOWN SHALL HAVE STANDARD HOOKS, U.N.O.
6. REINFORCING SHALL NOT BE WELDED WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.
7. BOTTOM REINFORCING BARS SHALL BE SPLICED AT SUPPORTS AND CONTINUOUS TOP BARS SHALL BE SPLICED AT MID-SPAN PER 8/S-302
8. WHERE BAR TYPES FROM THE BAR BENDING DIAGRAM ARE SPECIFIED, PROVIDE BARS ACCORDINGLY. OTHERWISE, DETAIL BARS IN BEAMS, COLUMNS, SLABS, AND WALLS PER 8/S-302
9. PLACE BARS NOTED AS "2ND LAYER" BELOW THE PRIMARY TOP BARS (OR ABOVE THE PRIMARY BOTTOM BARS) AND PROVIDE #11 SPACER BARS PLACED AT INTERVALS OF 4'-0" BETWEEN THE TWO LAYERS OF BARS.
10. PROVIDE CORNER BARS FOR EACH HORIZONTAL BAR AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. REFER TO TYPICAL CORNER BAR DETAIL ON 5/S-302

CONCRETE FINISHES:

GC NOTE FOR EXPOSED CONCRETE FINISH

1. ALL SLAB AREAS WITH EXPOSED CONCRETE (INCLUDING STAINED OR SEALED CONCRETE, EPOXY COATING FINISH, POLISHED CONCRETE, ETC) FINISH SHALL HAVE THE ADDITIONAL PERFORMANCE CRITERIA AS NOTED BELOW.
    - SLAB FLATNESS SHALL BE 40
    - SLAB LEVELNESS SHALL BE 35
    - THE SLAB SHALL RECEIVE SIKAFLOOR 956 LD AS A CONCRETE SURFACE DENSIFIER TO INCREASE DURABILITY OF THE SLAB SURFACE FROM IMPACTS AND SIMILAR HEAVY USE.
    - THE SLAB SHALL RECEIVE SIKAFLOOR 958 PG AS A CONCRETE SURFACE SEALER. IF SLAB FINISH IS INTENDED TO BE GROUND / POLISHED THIS WOULD BE INSTALLED AFTER POUR AND BEFORE GRINDING.
2. FOR AREAS WHERE THE FINAL ARCHITECTURAL FINISH IS STAINED OR SEALED CONCRETE, THE GC IS RESPONSIBLE FOR PLANNING OUT THE CONTRACTION JOINT / SAW-CUT JOINT LOCATIONS IN ADVANCE OF THE POUR AND PROVIDE DISCONTINUOUS BARS AT EVERY OTHER BAR ON CENTER ALONG THE JOINT. THE GC SHALL ENSURE THE JOINT FORMS A STRAIGHT LINE FOLLOWING THE PLANNED SAW-CUT, AND THE GC SHALL ONLY HOLD BACK THE REINFORCEMENT 1" FROM EACH SIDE OF THE JOINT. THIS PROCEDURE MUST BE FOLLOWED FOR ALL JOINTS IN BOTH DIRECTIONS FOR THE SLABS THAT WILL BE STAINED OR SEALED CONCRETE AS THE FINAL FINISH. THE GC SHALL FOLLOW IN STRICT COMPLIANCE WITH ALL MANUFACTURER'S INSTALLATION PROCEDURES, BOTH FOR PREP AND INSTALLATION FOR ANY PRODUCT THAT IS USED.
3. FOR AREAS WHERE THE FINAL ARCHITECTURAL FINISH IS EPOXY COATING DIRECTLY APPLIED ON TOP OF THE CONCRETE, THE GC MUST PLAN TO ROUTE OUT AND INFILL ALL CRACK LOCATIONS WITH A FULLY RIGID FILLER MANUFACTURED FOR THE PURPOSE OF FILLING TYPICAL SHRINKAGE CRACKS IN CONCRETE. IT MUST BE AT THE CONTRACTOR'S DISCRETION WHETHER TO PROVIDE 1/2 THE SLAB BARS AS DISCONTINUOUS AT THESE EPOXY CONDITIONS OR TO RUN ALL BARS THROUGH AND THEN ROUTE AND FILL SHRINKAGE CRACKS. THE GC SHALL FOLLOW IN STRICT COMPLIANCE WITH ALL MANUFACTURER'S INSTALLATION PROCEDURES, BOTH FOR PREP AND INSTALLATION FOR ANY PRODUCT THAT IS USED.
4. FOR AREAS WITH A POLISHED CONCRETE FINISH, THE FOLLOWING CRITERIA MUST BE ADHERED TO: (TYP ALL AREAS)

4.1 RUN HALF OF THE REINFORCEMENT BARS DISCONTINUOUS AT CONTROL JOINTS IN THE SLAB-ON-GRADE TO HELP CONTROL CRACKING. ENSURE THAT SMOOTH DOWEL BARS ARE PROPERLY PLACED AT THESE JOINTS TO ALLOW FOR LOAD TRANSFER WHILE PERMITTING CONTROLLED MOVEMENT. SAW CUTS SHOULD BE MADE AT THE APPROPRIATE DEPTH (MINIMUM 1/4 OF SLAB THICKNESS) AND SPACING SHOULD NOT EXCEED 8'-0" TO MINIMIZE UNCONTROLLED CRACKING.

4.2 GC SHALL COORDINATE THE LOCATION OF THE EXPOSED CONCRETE FINISH WITH ARCH DRAWINGS.

4.3 GC PROVIDE 1 3/8" CONCRETE COVER AT TOP OF SLAB ON GRADE INSTEAD OF 2 " CLEAR CONCRETE.

4.4. FINISHING PROCESS:
- INITIAL SCREEDING AND BULL FLOATING TO MAINTAIN UNIFORMITY
- AVOID EXCESSIVE TROWELLING-MACHINE FINISH BEFORE SLAB BEGINS SETTING.
- NO HARD TROWELLING, WHICH CAN SEAL THE SURFACE AND AFFECT POLISHING.

4.5 CURING PROCESS METHOD FOR POLISHED CONCRETE AREAS:

PREFERRED OPTION: CURING COMPOUND & DENSIFIER COMBO
- APPLY A LITHIUM SILICATE CURING COMPOUND IMMEDIATELY AFTER FINISHING TO HELP WITH MOISTURE RETENTION.
- DENSIFIER (LITHIUM SILICATE OR SODIUM SILICATE) SHOULD BE APPLIED AFTER THE SLAB CURES FOR 14-28 DAYS. THIS HELPS HARDEN THE SURFACE BEFORE POLISHING.

ALTERNATIVE: WET CURING
- 7 DAYS OF WET CURING VIA FLOODING WITH WATERPROOF FORMS, A MINIMUM OF 3" ABOVE THE SLAB
- AVOID UNEVEN WATER EXPOSURE TO PREVENT DISCOLORATION IN POLISHED AREAS.

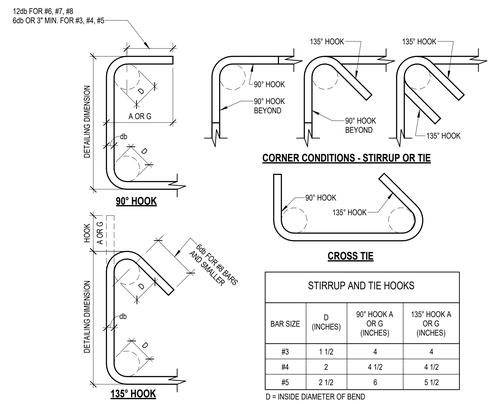
AVOID THESE METHODS:
- TRADITIONAL CURING COMPOUNDS THAT LEAVE A THICK FILM, AS THEY INTERFERE WITH POLISHING.

4.6 COLUMN BLOCK-OUTS
USING ROUND BLOCKOUTS INSTEAD OF DIAMOND IS RECOMMENDED, AS IT REDUCES STRESS CONCENTRATION AND MINIMIZES CRACKING. DO NOT PROVIDE KEYWAY AND DO NOT DOWEL BETWEEN SLAB ON GRADE AND CONCRETE BLOCKOUT. REF DETAIL 5/S-303.

4.7 MAXIMUM ALLOWABLE GRIND DEPTH: 1/4"

4.8 AGGREGATE SIZE: A UNIFORM AGGREGATE SIZE OF 3/8" TO 1/2" IS RECOMMENDED. THIS SIZE ENSURES A CONSISTENT AND AESTHETICALLY PLEASING EXPOSURE WHILE MAINTAINING DURABILITY. GC COORD WITH ARCH IF THE PROJECT REQUIRES A FULL AGGREGATE EXPOSURE, LARGER AGGREGATES (UP TO 3/4") CAN BE USED, BUT THEY REQUIRE DEEPER GRINDING. FOR SALT-AND-PEPPER EXPOSURE, SMALLER AGGREGATES (AROUND 3/8") ARE PREFERABLE. GC COORDINATE WITH ARCH REGARDING DESIRED AGGREGATE SIZE. ADDITIONALLY, WELL-GRADED AGGREGATES (PER ASTM C33) RECOMMENDED TO MINIMIZE SHRINKAGE AND CRACKING.

4.9 FINAL POLISH: PROGRESSIVELY FINER GRITS (E.G., 200, 400, 800, 1500, 3000) PER ARCHITECT'S SPECIFICATION.



STIRRUP AND TIE HOOKS			
BAR SIZE	D (INCHES)	90° HOOK A OR G (INCHES)	135° HOOK A OR G (INCHES)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2

D = INSIDE DIAMETER OF BEND

1 TYPICAL STIRRUP AND TIE HOOK TYPES
NO SCALE



END HOOK DIMENSIONS				
BAR SIZE	FINISHED BEND DIAMETER D, (INCHES)	180° HOOKS		90° HOOK
		A OR G, (INCHES)	J, (INCHES)	A OR G, (INCHES)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

D = INSIDE DIAMETER OF BEND

2 TYPICAL END HOOK TYPE
NO SCALE

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION GRADE 60 REINFORCEMENT, NORMALWEIGHT CONCRETE							
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		BAR SIZE
	Ldh	0.7 Ldh	Ldh	0.7 Ldh	Ldh	0.7 Ldh	
#3	9	7	8	6	7	6	#3
#4	11	8	10	7	9	7	#4
#5	14	10	12	9	11	8	#5
#6	17	12	15	11	13	10	#6
#7	20	14	17	12	15	11	#7
#8	22	16	19	14	17	12	#8
#9	25	18	22	16	20	14	#9
#10	28	20	25	18	22	16	#10
#11	31	22	27	19	24	17	#11
#14	38	-	33	-	29	-	#14
#18	50	-	43	-	39	-	#18



NOTES:
1. Ldh = DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION (INCHES).
2. Ldh = Lhb UNLESS CONDITIONS OF NOTE 3 ARE SATISFIED.
3. Ldh = 0.7Lhb FOR #11 BARS AND SMALLER WHEN SIDE COVER (NORMAL TO PLANE OF HOOK) IS NOT LESS THAN 2 1/2 INCHES AND FOR 90° HOOKS COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES.
4. HOOKS ARE NOT CONSIDERED EFFECTIVE FOR DEVELOPING BARS IN COMPRESSION.
5. Ldh SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED REINFORCING BARS.

3 TYPICAL DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION
NO SCALE

TENSION DEVELOPMENT AND LAP SPLICE LENGTHS (CLASS B) GRADE 60 REINFORCEMENT NORMAL WEIGHT CONCRETE						
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI	
	TYP. BARS	OTHER BARS	TYP. BARS	OTHER BARS	TYP. BARS	OTHER BARS
#3	28"	22"	24"	19"	22"	17"
#4	37"	29"	32"	25"	29"	22"
#5	47"	36"	40"	31"	36"	28"
#6	56"	43"	48"	37"	43"	33"
#7	81"	63"	70"	54"	63"	49"
#8	93"	72"	80"	62"	72"	55"
#9	105"	81"	91"	70"	81"	63"
#10	118"	91"	102"	79"	91"	70"
#11	131"	101"	113"	87"	101"	78"

NOTES:
1. THE CLASS B TENSION LAP SPLICE SCHEDULE SHOWN IS FOR NORMAL WEIGHT CONCRETE AND GRADE 60 NON-EPOXY-COATED REINFORCING.
2. TYPICAL BARS ARE FOR BEAM TOP AND INTERMEDIATE BARS, WALL TOP AND HORIZONTAL BARS, AND SLAB/FOOTING TOP BARS FOR SLAB/FOOTING THICKNESS GREATER THAN 12". OTHER BARS ARE FOR ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. ALL TYPICAL BARS SHALL HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
3. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPLICE LENGTHS OF TYPICAL BARS BY 1.3 AND THE TABULATED SPLICE LENGTHS OF OTHER BARS BY 1.5.
4. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.33.
5. FOR GRADE 75 BARS, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.25.
6. FOR #7 TO #11 SLAB OR WALL REINFORCING WITH CLEAR COVER LESS THAN 1 BAR DIAMETER, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.5.
7. SPLICE LENGTH FOR BARS OF DIFFERENT SIZE SHALL BE THE GREATER OF SPLICE LENGTH/1.3 OF THE LARGER BAR AND SPLICE LENGTH OF THE SMALLER BAR.
8. FOR CONCRETE STRENGTH IN BETWEEN THOSE SHOWN IN THE SCHEDULE, USE SPLICE LENGTHS OF THE LOWER CONCRETE STRENGTH.
9. THE SCHEDULED LAP SPLICE LENGTH WITH THE APPLICABLE MODIFICATION FACTORS SHALL NOT BE LESS THAN 12".

4 TYPICAL DEVELOPMENT AND LAP SPLICE LENGTHS
NO SCALE

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ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
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LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

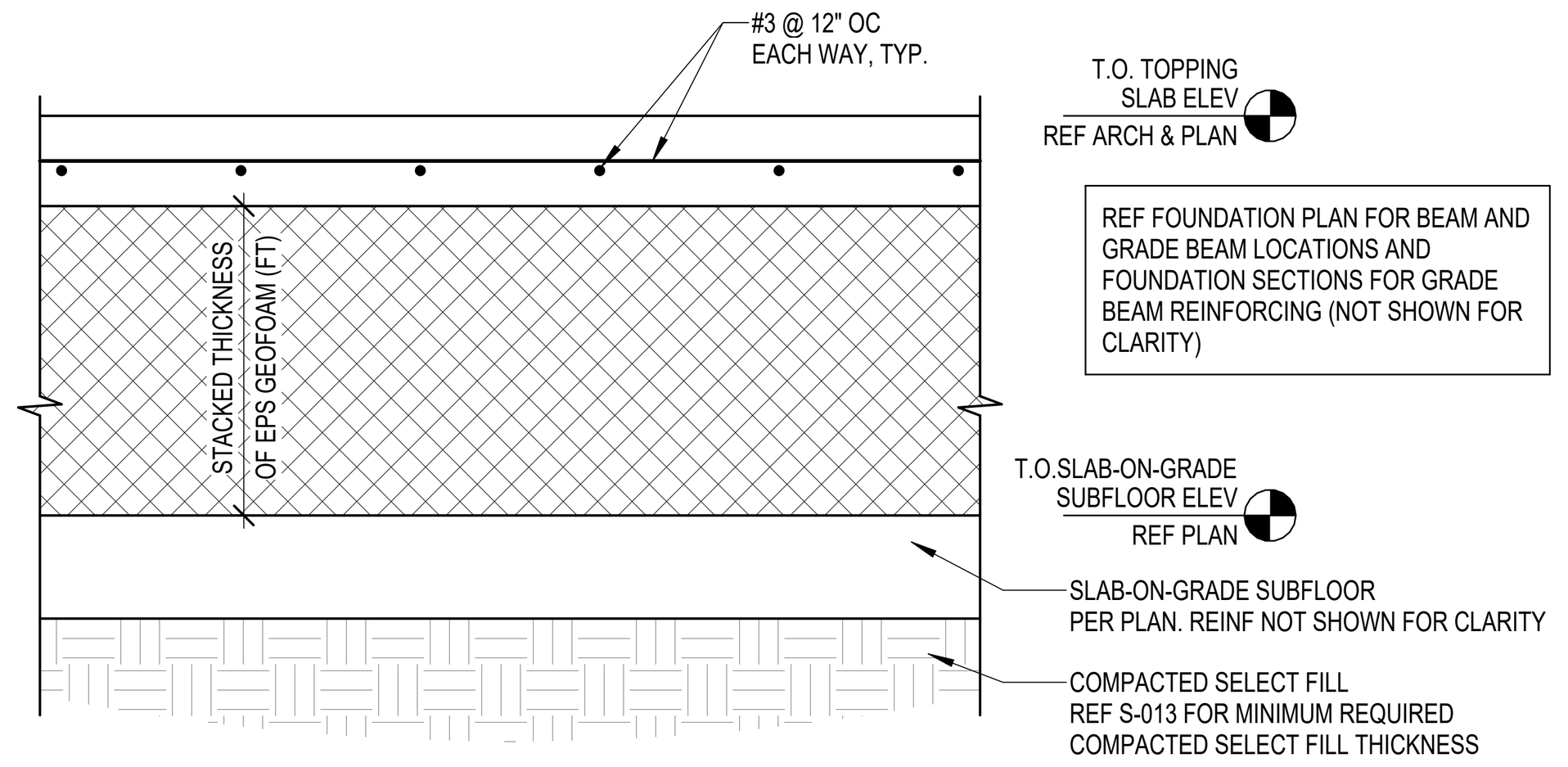
GENERAL SLAB-ON-GRADE NOTES AND TYP DETAILS
S-301
FOR BLUEBEAM LABELING/OCR:

SLAB-ON-GRADE:

1. INSTALL VAPOR BARRIER IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY BELOW SLAB. PROPERLY TAPE ALL SEAMS PER MANUFACTURER'S RECOMMENDATIONS AND REMOVE ANY REMOVE STANDING WATER ON THE SURFACE OF VAPOR BARRIER PRIOR TO CONCRETE PLACEMENT.
2. PROVIDE (2) #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.
3. PROVIDE CONTROL JOINTS ALONG COLUMN LINES AND AT 15'-0" ON CENTER, EACH WAY, MAXIMUM, UNLESS NOTED OTHERWISE. ALSO, PROVIDE ADDITIONAL CONTROL JOINTS AT RE-ENTRANT CORNERS. SEE TYPICAL DETAILS.
4. JOINT FILLER SHALL BE USED ON ALL JOINTS THAT DO NOT GET COVERED BY AN ARCHITECTURAL FLOOR COVERING. ACCEPTABLE PRODUCTS INCLUDE EDGE PRO 90. STRICTLY FOLLOW MANUFACTURER-WRITTEN RECOMMENDATIONS FOR INSTALLATION. DELAY JOINT FILLING AS LONG AS PRACTICAL TO ALLOW FOR MAXIMUM CONCRETE SHRINKAGE.
5. DO NOT PLACE HEAVY EQUIPMENT OR CONSTRUCTION STORAGE LOADS ON THE SLAB UNLESS CALCULATIONS PREPARED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED HAVE BEEN SUBMITTED, VERIFYING THE ADEQUACY OF THE SLAB.
6. TESTING LAB WILL TEST ALL PLACEMENTS IN ACCORDANCE WITH ASTM E 1155 TO CONFIRM F-NUMBERS AND ADEQUACY OF FINISHING PROCEDURES.
7. THE PERFORMANCE OF THE SLAB IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE BUILDING PAD PREPARATION RECOMMENDATIONS AS SPECIFIED IN THE GEOTECHNICAL REPORT AND EARTHWORK SECTION OF THE GENERAL NOTES. THE CONTRACTOR AND OWNER SHOULD CONSULT WITH THE GEOTECHNICAL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING DESIGN, CONSTRUCTION METHODS, PERFORMANCE AND RISKS INVOLVED IN THE CONSTRUCTION OF A GRADE SUPPORTED SLAB.
8. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.

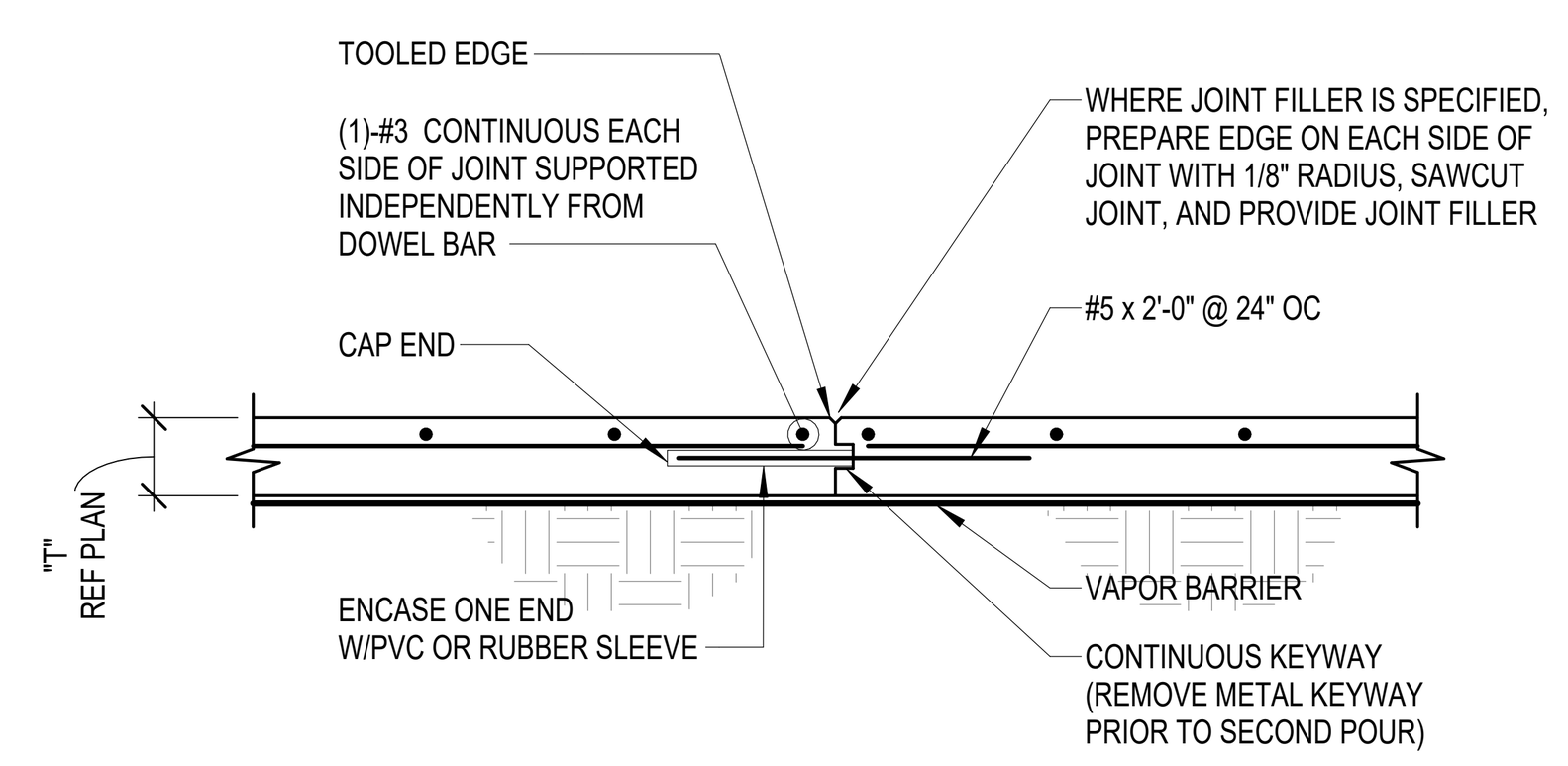
GEO-FOAM WITH CONCRETE TOPPING:

1. ALL EPS GEO-FOAM SHALL BE PER ASTM D6817 AND TYPE EPS 19 (MIN DENSITY - 1 PCF) OR BETTER.REFER TO EPS GEOFOAM SCHEDULE FOR EPS GEO-FOAM GRADE BASED STACKED THICKNESS.
2. U.N.O. ON PLANS/DETAILS ALL GEO-FOAM SHALL BE FINISHED WITH 4" THICK CONCRETE TOPPING SLAB WITH #3 AT 12" O.C. EACH WAY CENTERED IN THE SLAB.
3. CONSTRUCTION JOINTS SHALL BE FOLLOWED PER PLANS. ADJACENT POURS SHOULD BE SCHEDULED MINIMUM 4 DAYS APART.
4. ALL GEO-FOAM SHALL BE ADHERED TO THE BASE SLAB AND TO EACH OTHER WITH A NON-SOLVENT ADHESIVE WITH A MINIMUM SHEAR STRENGTH OF 5 PSF.



EPS GEOFOAM SCHEDULE

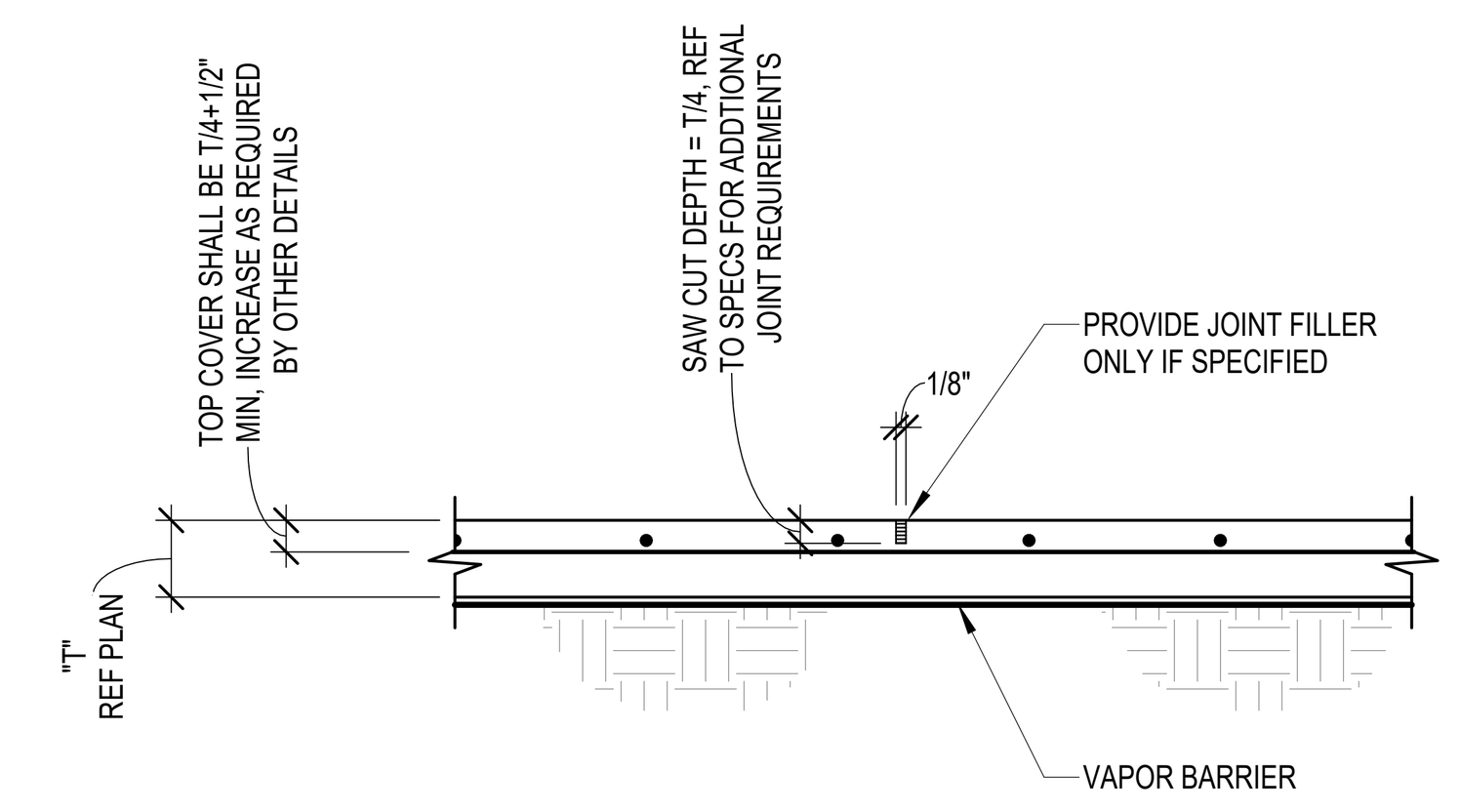
STACKED THICKNESS OF EPS GEOFOAM (FT)	MIN EPS GEOFOAM DENSITY (PCF)	1% COMPRESSIVE RESISTANCE, MIN (PSI)	EQUIVALENT EPS TYPE	TRANSVERSEMAX EXPECTED TOTAL AMOUNT OF CONSOLIDATION (W/ 4" NWC TOPPING SLAB) BOT REINF.
UP TO 2'-6"	1.15	5.8	EPS19	1/4"
>2'-6" TO 3'-3"	1.35	7.3	EPS22	1/4"
>3'-3" TO 4'-10"	1.8	10.9	EPS29	1/4"
>4'-10" TO 6'-6"	2.4	15.0	EPS39	1/4"
>6'-6" TO 8'-0"	2.85	18.6	EPS46	1/4"



NOTES:

1. AT CONTRACTOR'S OPTION, CONTRACTION JOINT MAY BE USED IN PLACE OF CONSTRUCTION JOINT. LOCATIONS SHALL BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ARCHITECT.
2. CONTRACTION JOINT MAYBE BE SAW CUT TO 1/4 OF THE SLAB DEPTH WITHIN 6 HOURS AFTER SLAB PLACEMENT.

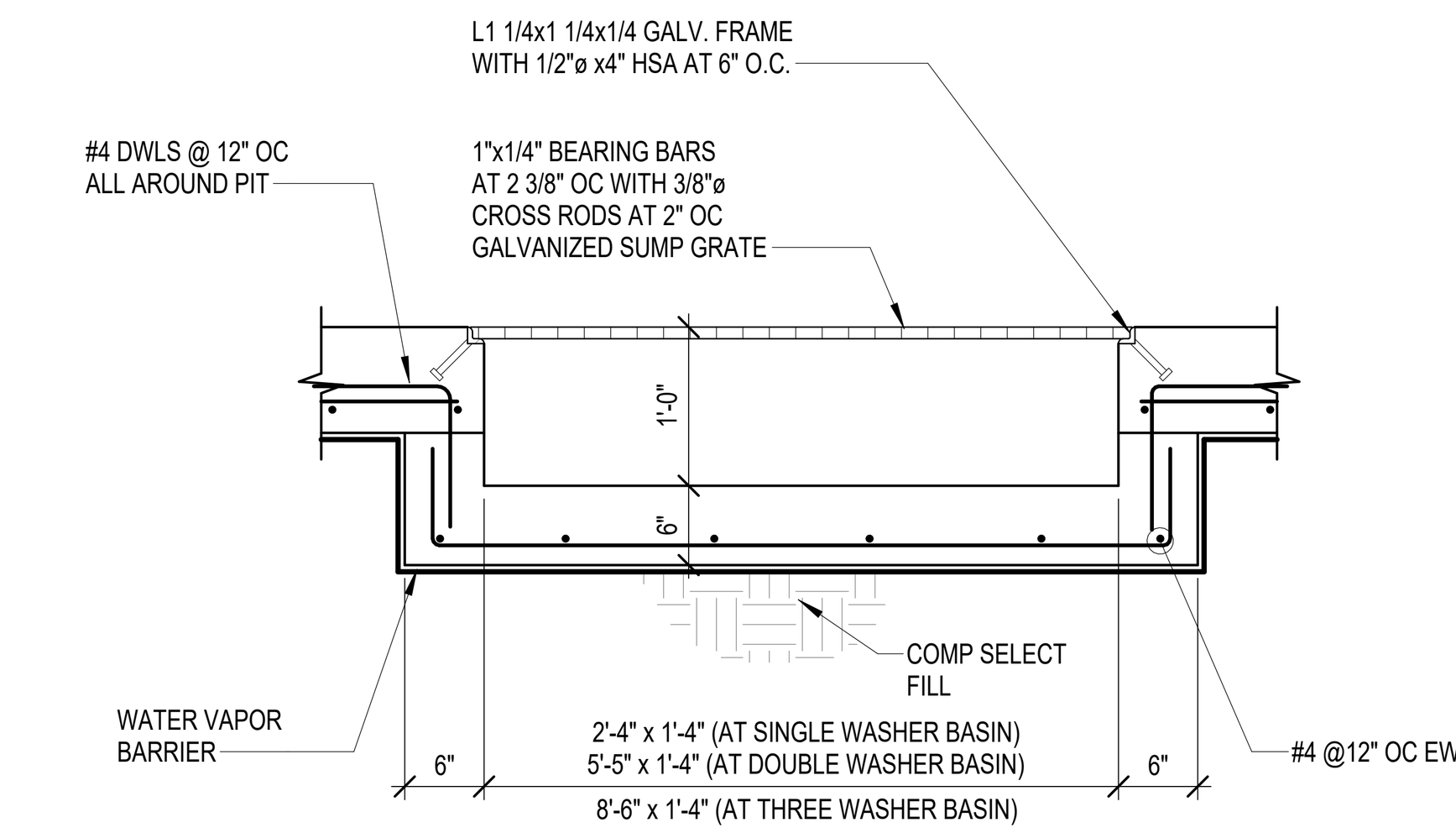
1 SLAB CONSTRUCTION JOINT
NO SCALE



NOTES:

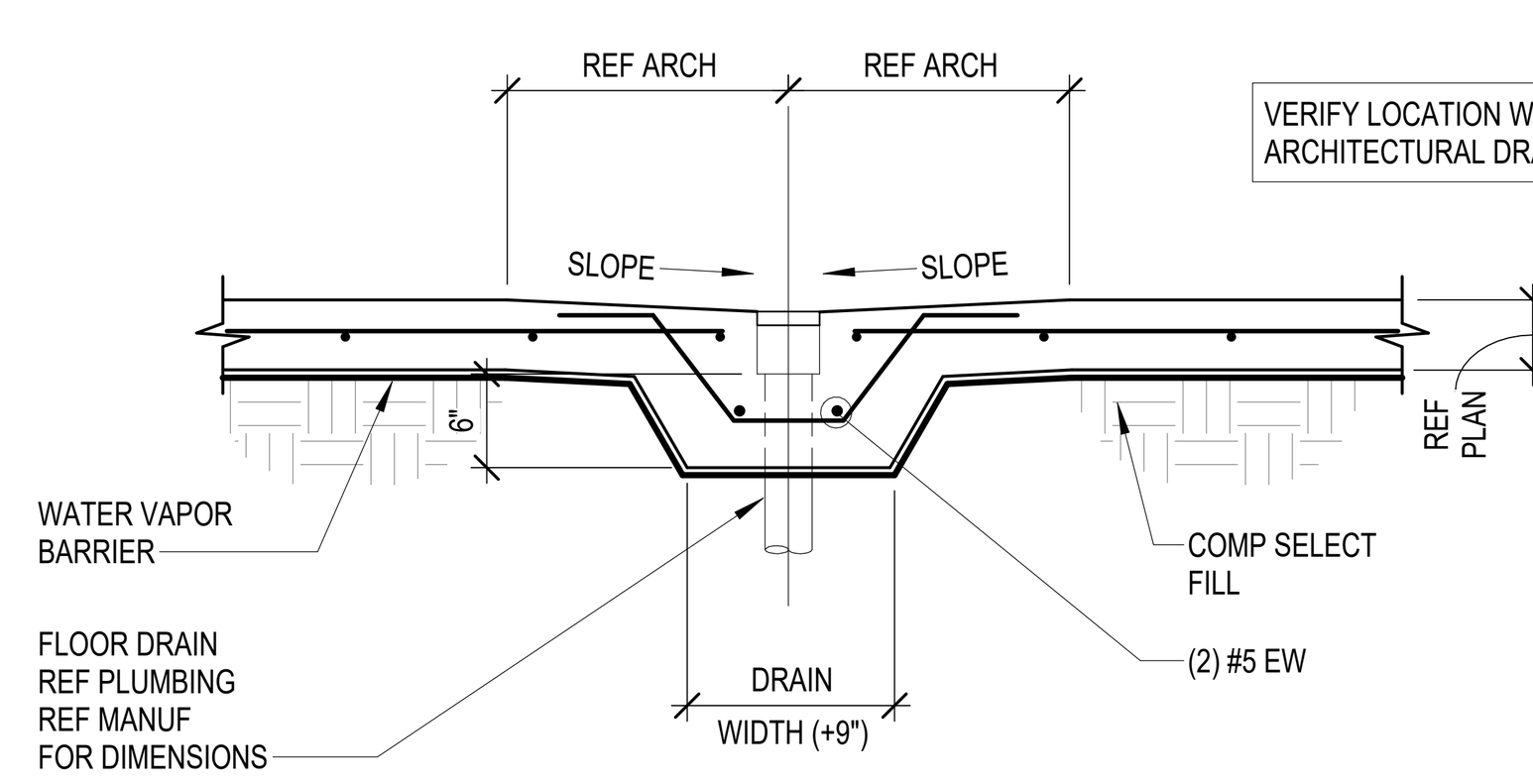
1. PROVIDE JOINT AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMN LINES AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 16 FEET); UNO.
2. GC SHALL SUBMIT JOINT LAYOUT TO THE ARCHITECT FOR APPROVAL.
3. AT ALL EXPOSED CONCRETE AREAS, RUN HALF OF THE REINFORCEMENT BARS DISCONTINUOUS AT CONTROL JOINTS IN THE SLAB-ON-GRADE TO HELP CONTROL CRACKING. ENSURE THAT SMOOTH DOWEL BARS ARE PROPERLY PLACED AT THESE JOINTS TO ALLOW FOR LOAD TRANSFER WHILE PERMITTING CONTROLLED MOVEMENT.
4. AT POLISHED CONCRETE AREAS, SAW CUTS SPACING SHOULD NOT EXCEED 8'-0" TO MINIMIZE UNCONTROLLED CRACKING.

2 CONTRACTION (CONTROL) JOINT
NO SCALE



VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

3 DRAIN TROUGH DETAIL
NO SCALE

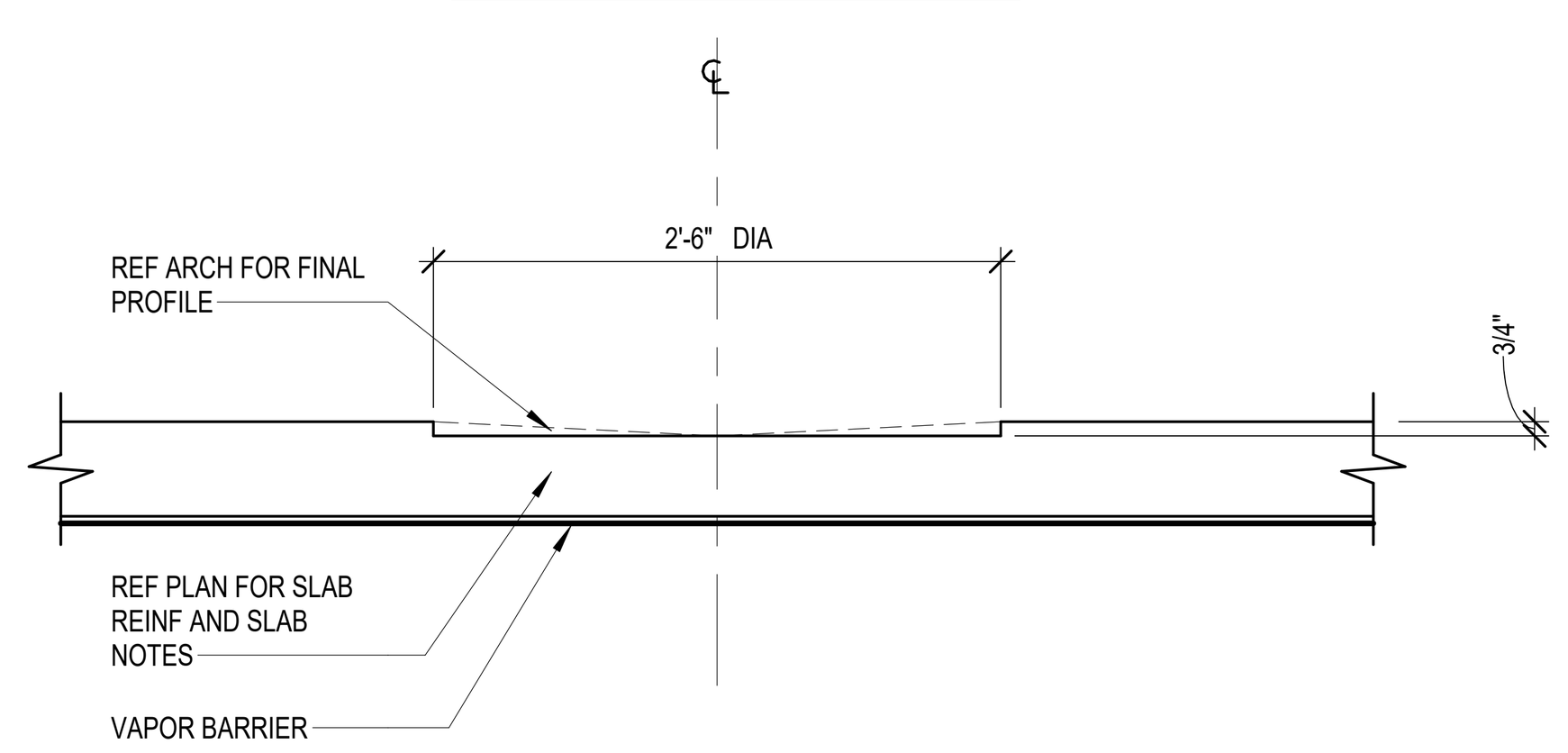


VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

4 FLOOR DRAIN DETAIL
NO SCALE

NOTE:

1. PROVIDE EXTRA HORIZ REINF AT EACH SIDE OF DRAIN EQUAL TO REINFORCING INTERRUPTED BY DRAIN DEPRESSION

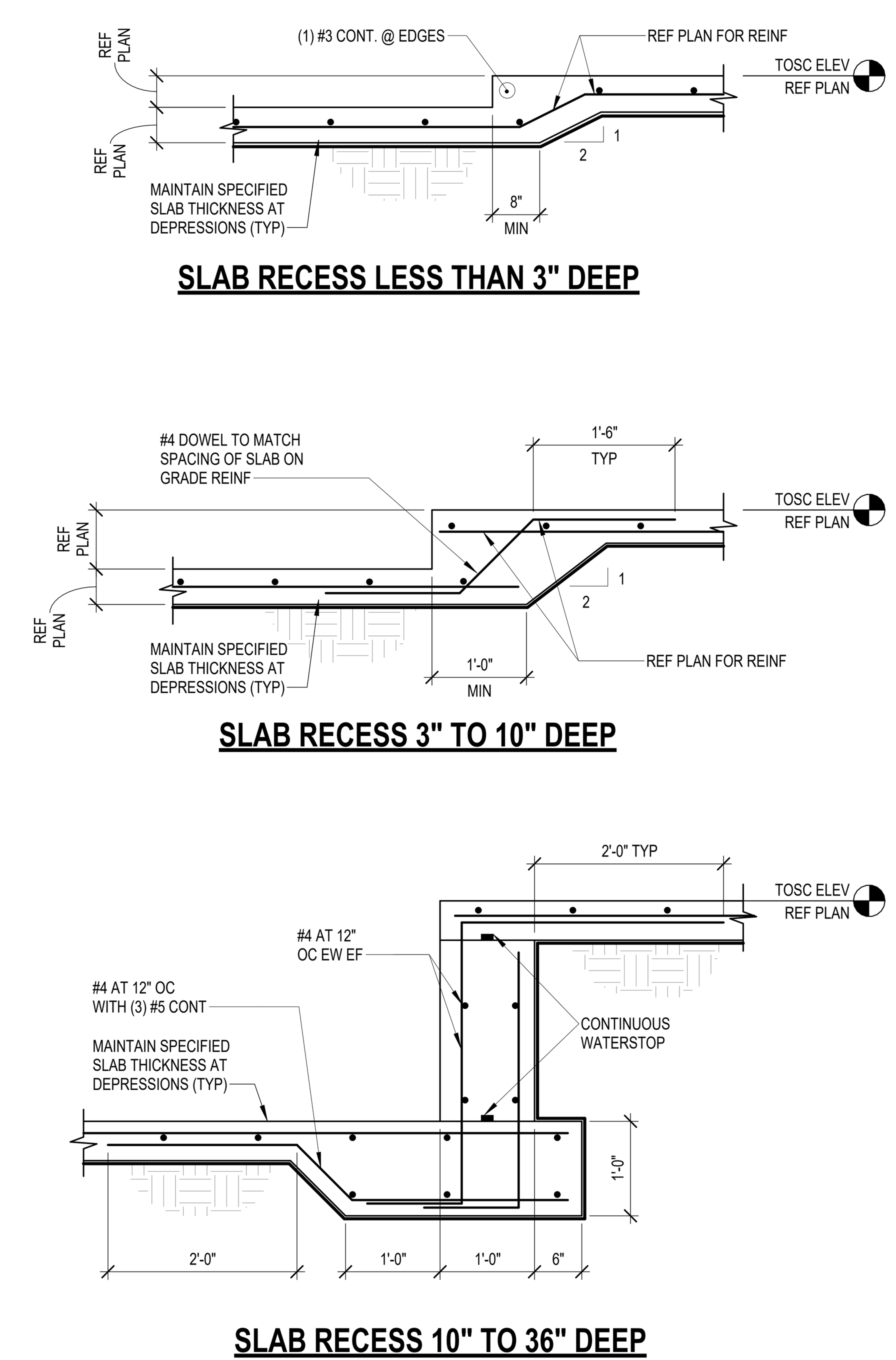


VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

5 TYPICAL SLAB RECESS AT RESTROOM DRAIN
NO SCALE

NOTE:

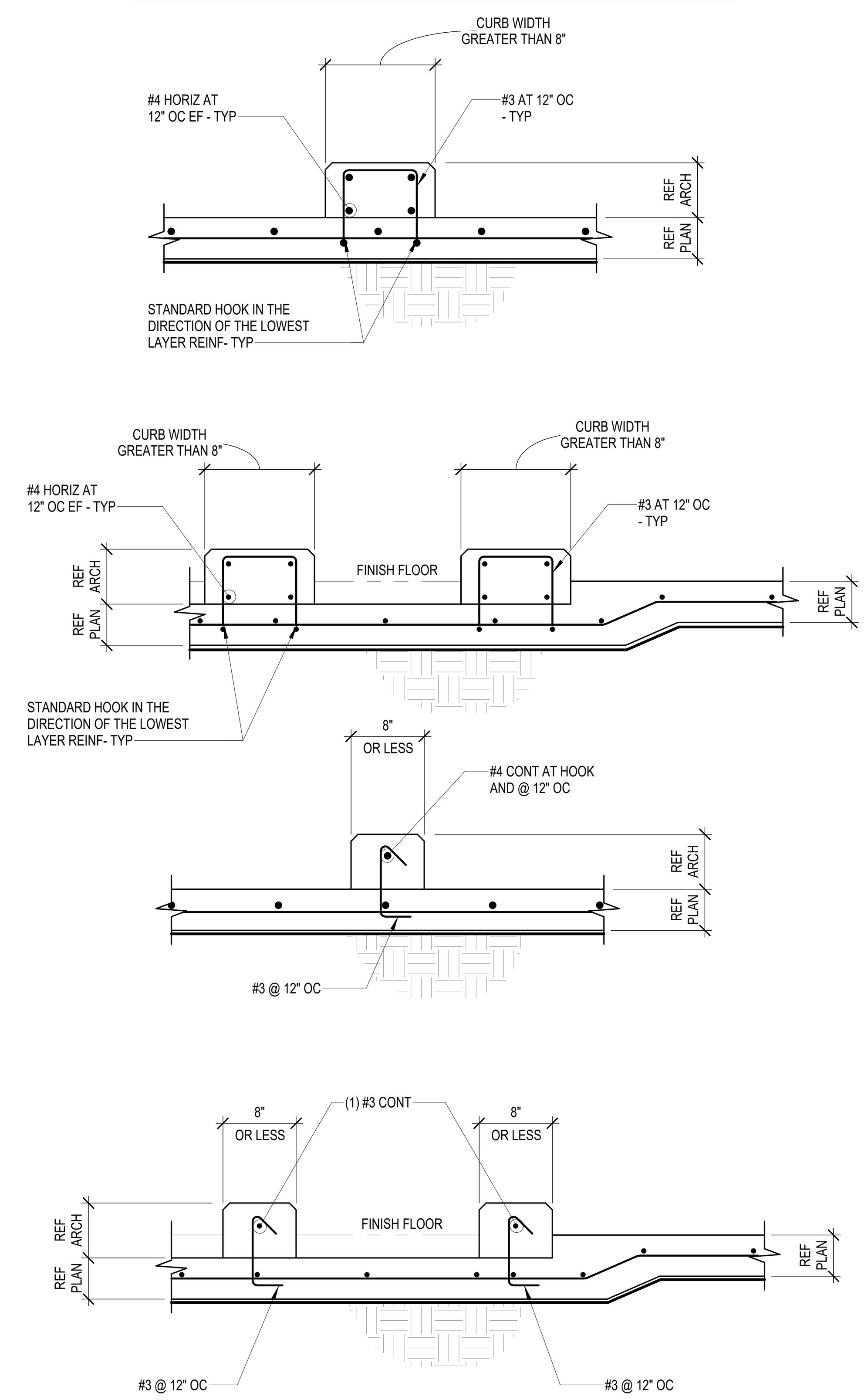
1. GC SHALL COORDINATE DEPTH AND LOCATION OF ALL FLOOR DEPRESSIONS WITH THE ARCHITECTURAL DRAWINGS.



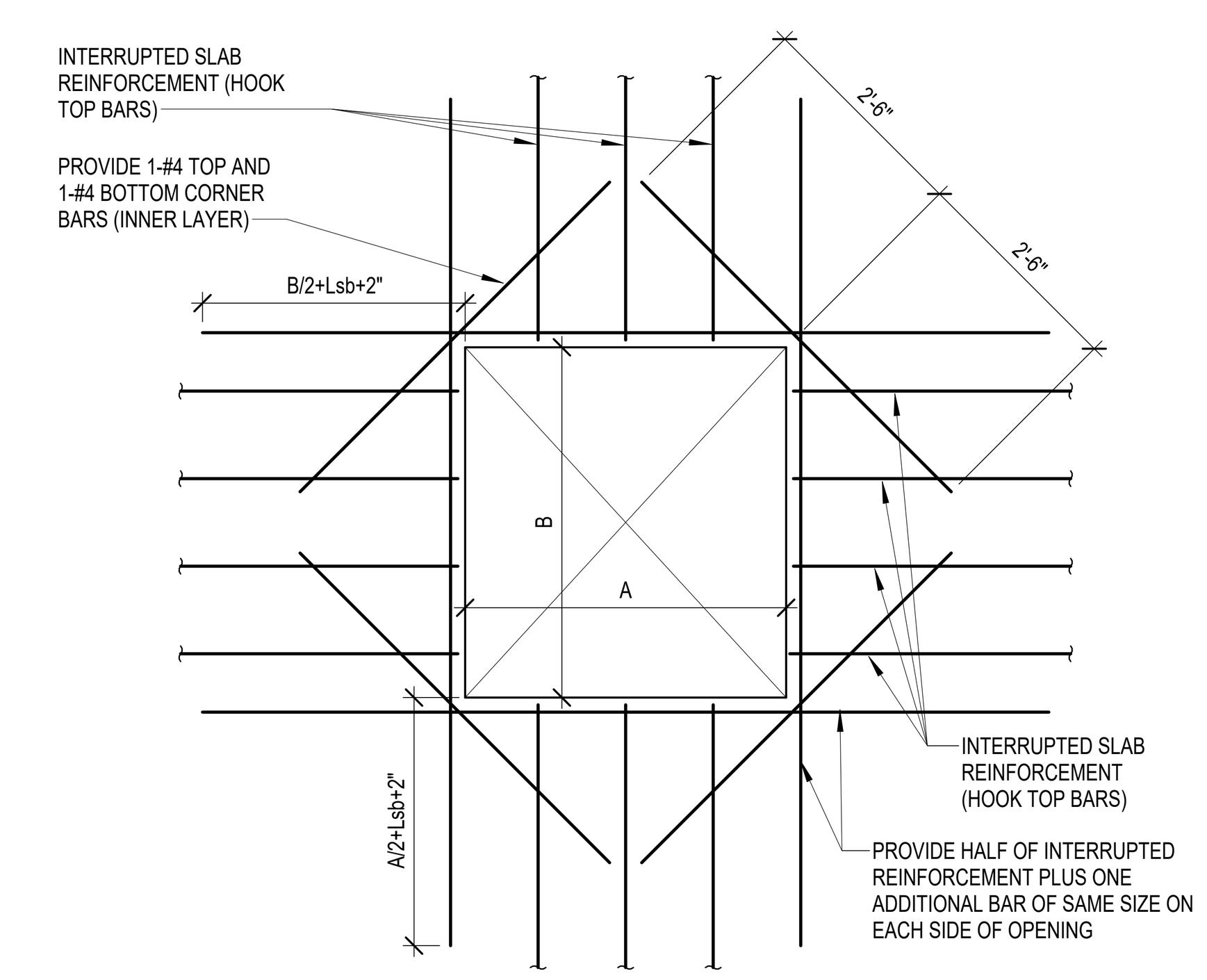
6 TYPICAL SLAB DEPRESSION DETAILS
NO SCALE

NOTE:

1. GC SHALL COORDINATE CURB SIZES AND LOCATIONS WITH ARCH DRAWINGS.



7 TYPICAL CURB DETAILS
NO SCALE



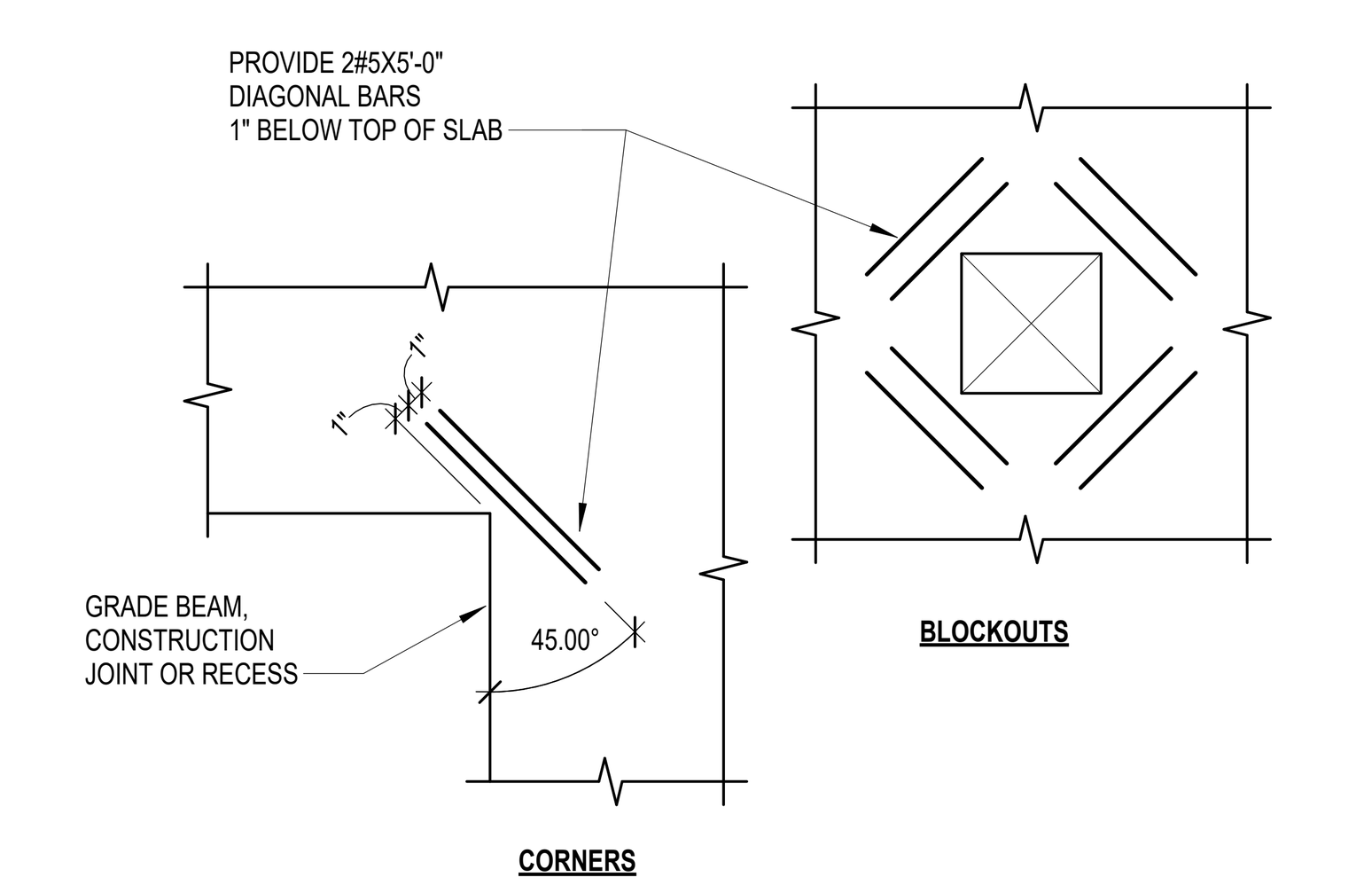
NOTES:

1. Lsb EQUALS BAR "CLASS B" TENSION LAP SPLICE LENGTH, UNLESS NOTED OTHERWISE.
2. SLAB OPENINGS ARE ONLY PERMITTED WHERE INDICATED ON THE STRUCTURAL PLANS OR AS APPROVED BY THE STRUCTURAL ENGINEER.

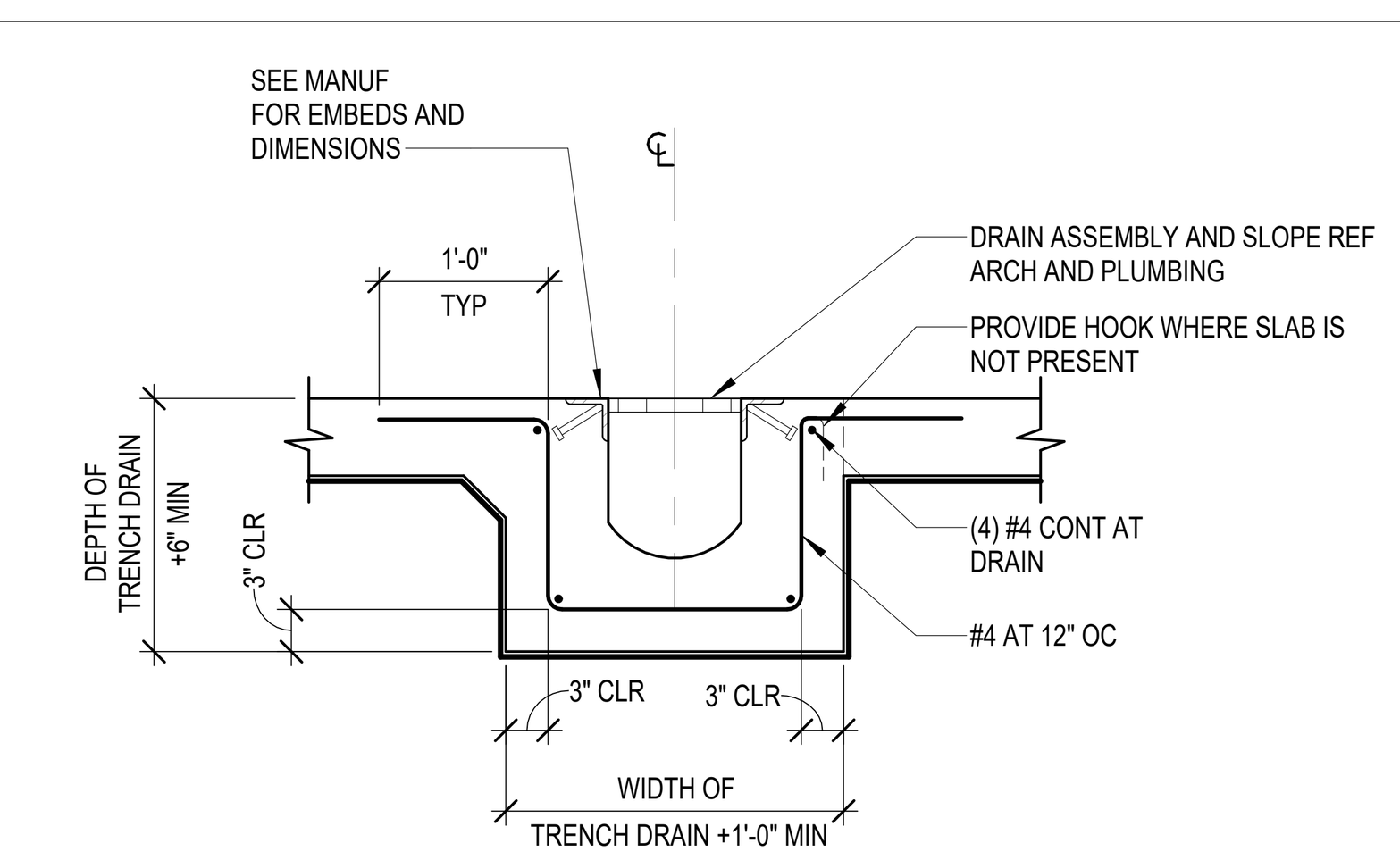
8 TYPICAL SLAB OPENING REINFORCEMENT
NO SCALE

NOTE:

1. FABRICATOR TO LOCATE THESE BARS ON THE SHOP DRAWINGS.

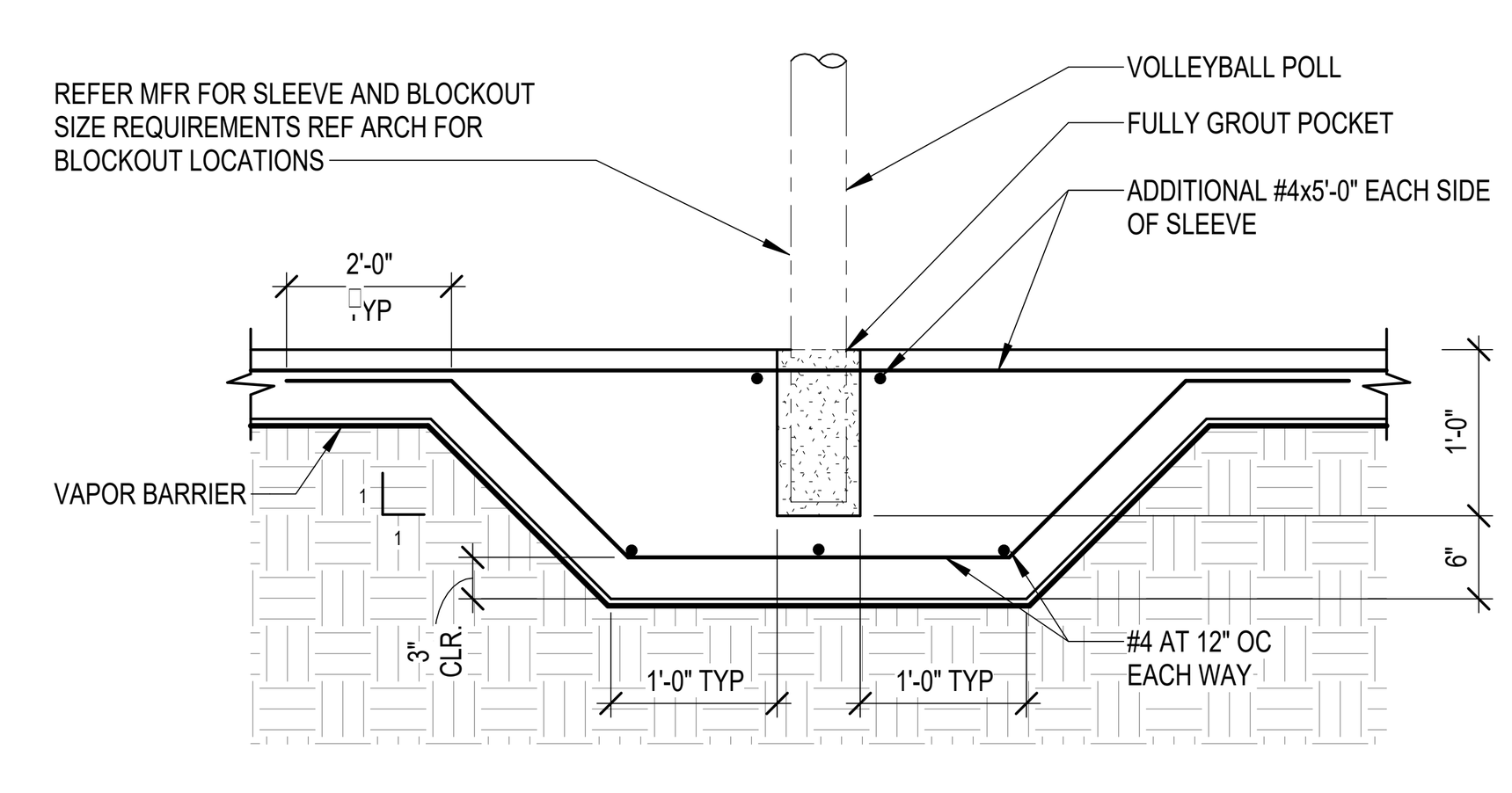


9 TYPICAL RE-ENTRANT CORNER BARS DETAIL
NO SCALE



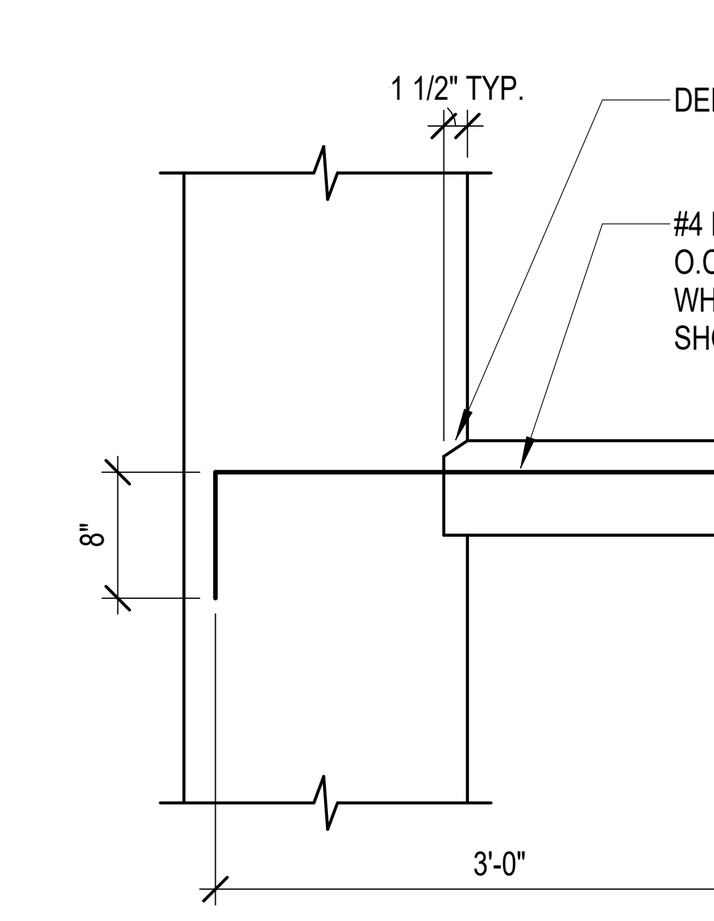
VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

10 TYPICAL TRENCH DRAIN AT SLAB-ON-GRADE
NO SCALE

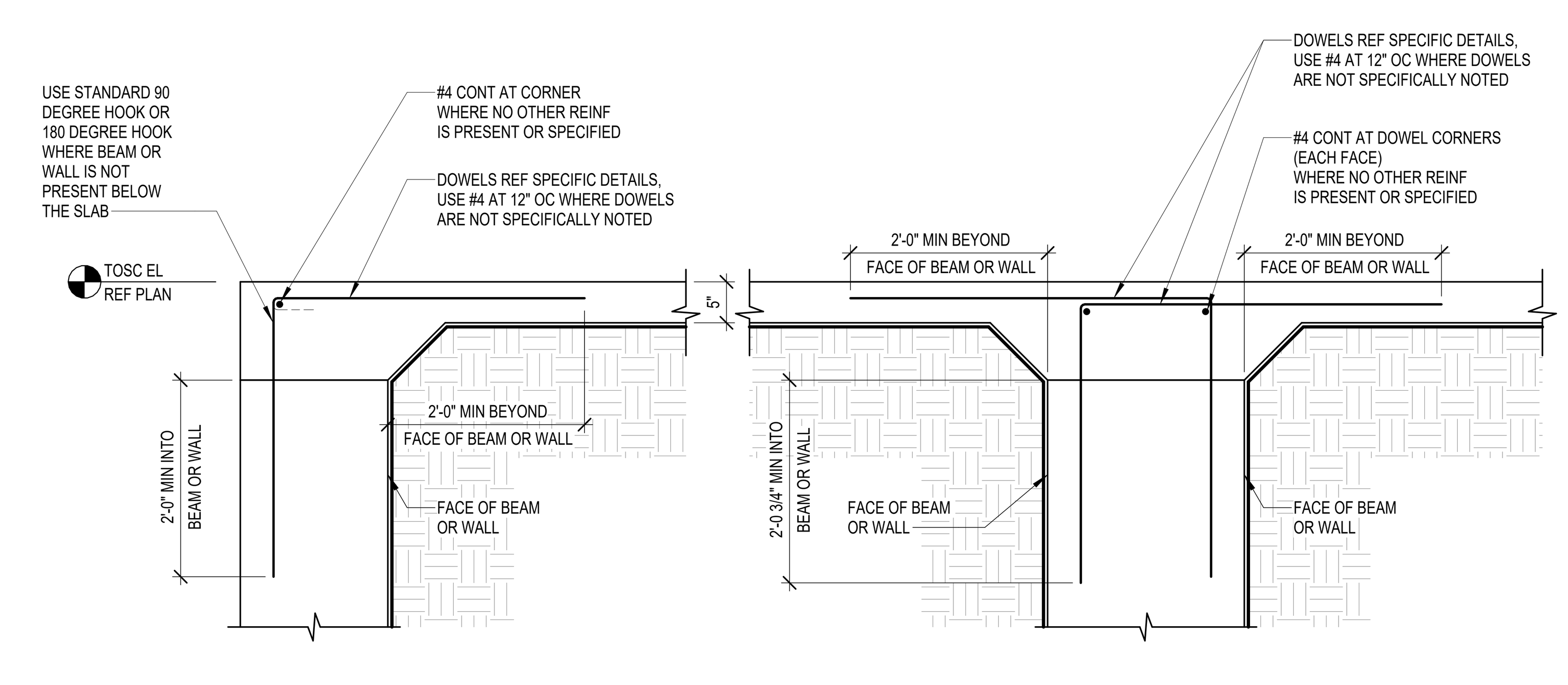


VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

11 TYPICAL VOLLEYBALL POLE INSERT
NO SCALE



12 TYPICAL WALL TO SLAB CONSTRUCTION JOINT
NO SCALE



13 TYPICAL SLAB DOWEL
NO SCALE

Plot Stamp:
12/5/2025 11:52:03 AM

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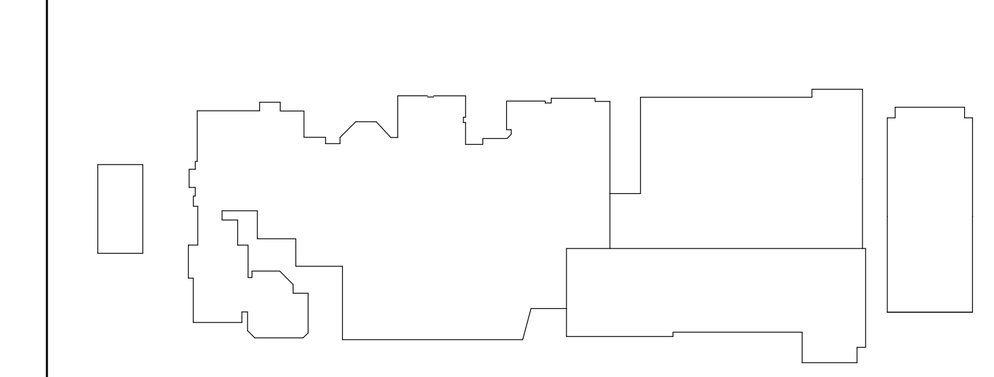

NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
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LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

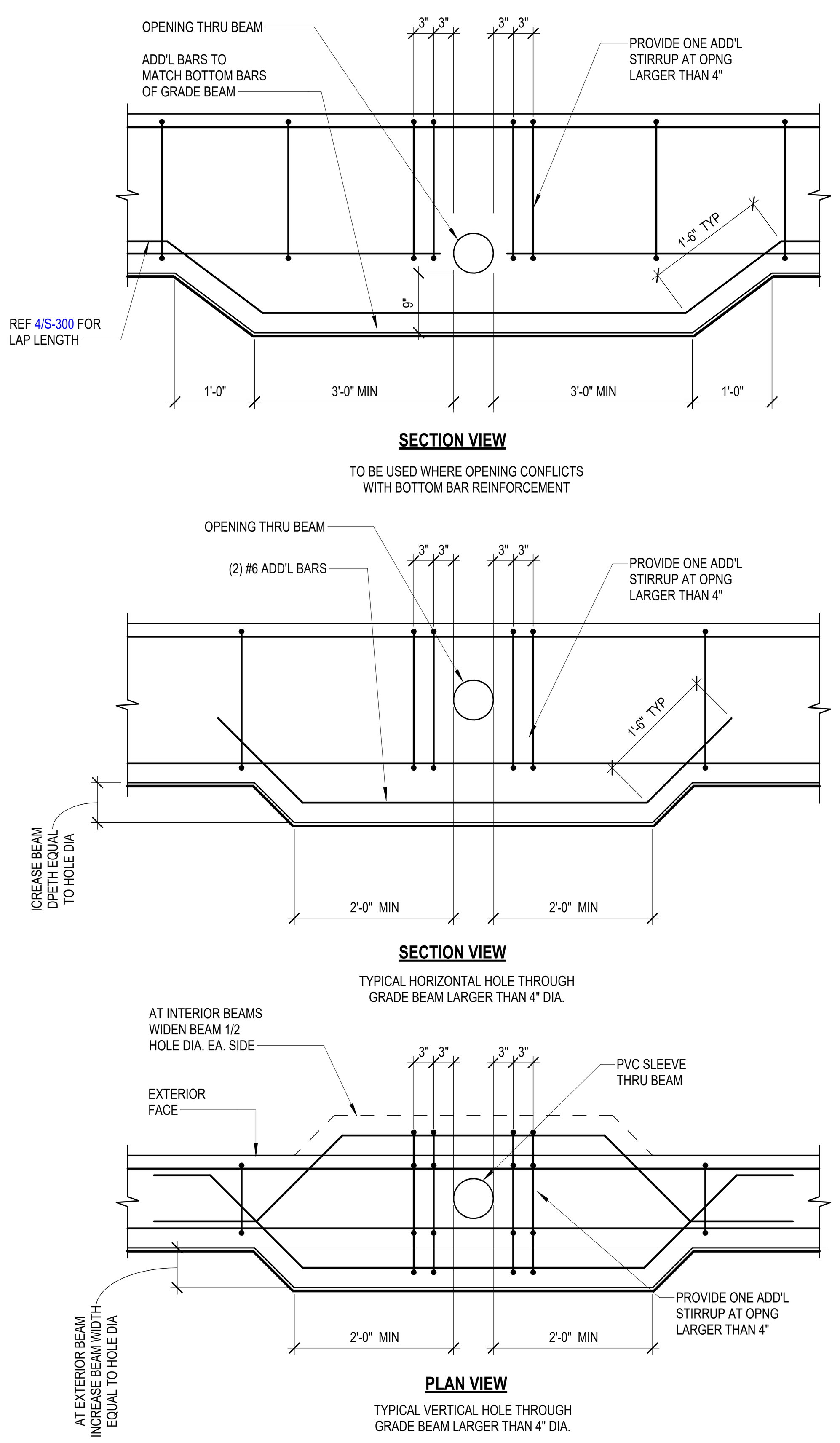
GENERAL SLAB-ON-GRADE NOTES AND TYP DETAILS

S-301

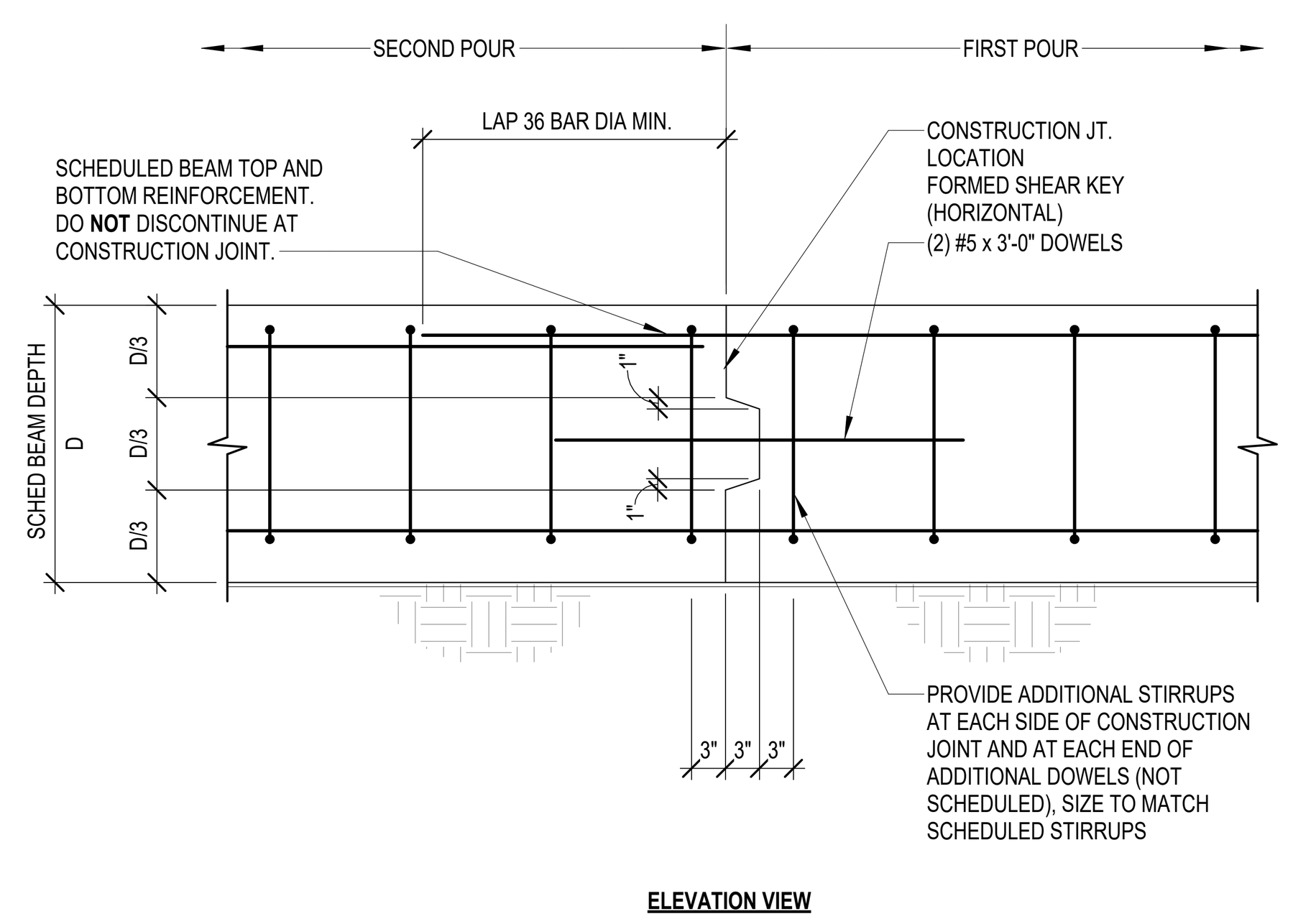
GENERAL GRADE BEAM NOTES AND TYP DETAILS
S-302
FOR BLUEBEAM LABELING/OCR:

GRADE BEAM:

1. GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED UNLESS GRADE BEAMS MAY BE EARTH FORMED SO LONG AS THE SIDES ARE PLUMB AND SOUND AND ANY PORTION OF THE BEAMS/SLAB THAT EXTENDS ABOVE GRADE/ EXPOSED IS BOARD FORMED. THE WALLS MUST NOT SLOUGH OFF MORE THAN 3/4" OUT OF PLANE OF THE PLUMB LINE. WHERE THIS OCCURS A BOARD FORM MAY BE LAID IN THE EARTH TO SMOOTH THE SIDE LOCALLY AT THE IMPERFECTION TO MAINTAIN WALL FLATNESS TOLERANCE.
2. GRADE BEAMS SHALL BE POURED MONOLITHICALLY AROUND CORNERS AND AT INTERSECTIONS. SEE TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL FOR ACCEPTABLE CONSTRUCTION JOINT LOCATIONS.
3. GENERAL CONTRACTOR SHALL COORDINATE LOCATION, SIZE, AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS FOR REVIEW AND APPROVAL.



4 TYPICAL GRADE BEAM PENETRATION DETAILS
NO SCALE



NOTES:

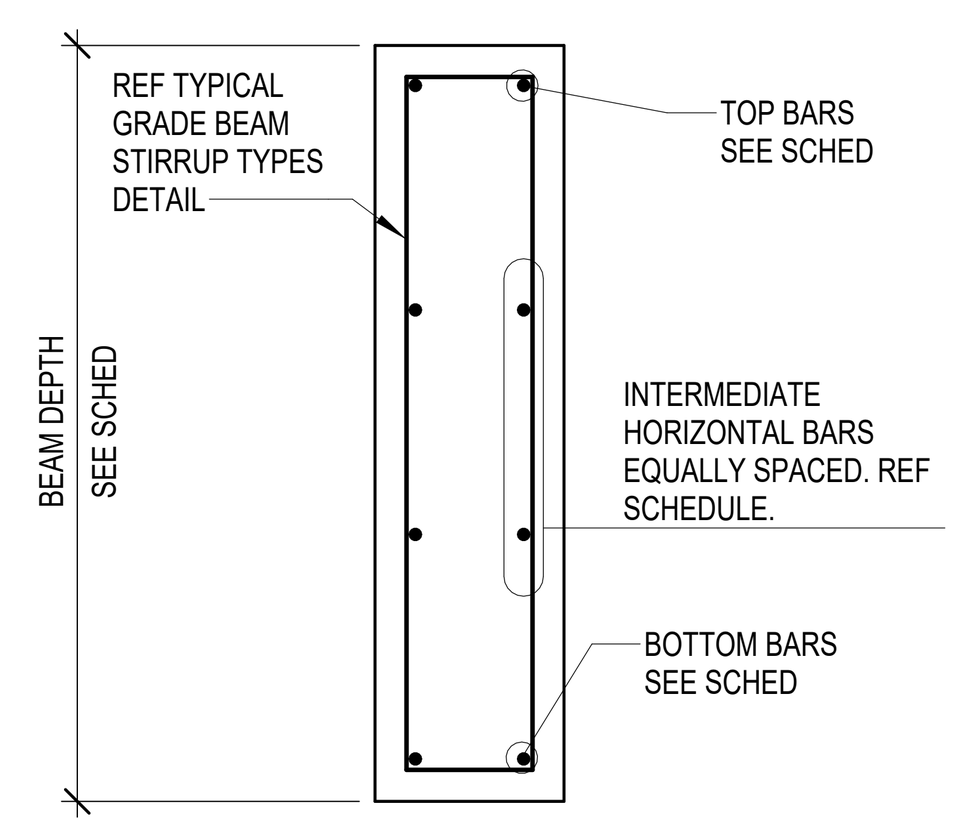
1. LOCATE JOINTS IN MIDDLE THIRD OF BEAM SPAN BETWEEN SUPPORTS.
2. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS, PLACE JOINT WITHIN MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER FOR JOINT LOCATIONS AND DOWEL REQUIREMENTS.
3. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.
4. JOINTS MAY NOT OCCUR IN THE FIRST SPAN OF A BEAM LINE OR IN ANY SPAN WHICH IS LESS THAN 8 FEET.
5. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.

7 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE

GRADE BEAM SCHEDULE

MARK	SIZE		REINFORCING			TIES		REMARKS
	WIDTH	DEPTH	TOP	BOTTOM	MIDDLE	SIZE	SPACING*	
GB1	1'-6"	2'-6"	3#9	3#9	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB2	2'-0"	2'-6"	4#9	4#9	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB3	2'-8"	2'-6"	5#9	5#9	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB4	2'-10"	2'-6"	6#9	6#9	REF SCHED	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB5	3'-0"	2'-6"	6#9	6#9	REF SCHED	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB6	1'-2"	2'-6"	3#7	3#7	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB6*	1'-2"	3'-6"	3#7	3#7	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB7	2'-0"	3'-6"	4#9	4#9	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB8	2'-0"	2'-0"	4#9	4#9	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-0'-8" BELOW FINISH FLOOR W/ 8" TURNDOWN. REF 9/S-311
GB9	4'-6"	2'-6"	8#9	8#9	REF SCHED	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB10	2'-6"	3'-6"	8#9	8#9	6#7	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB11	2'-6"	4'-0"	8#9	8#9	6#7	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-

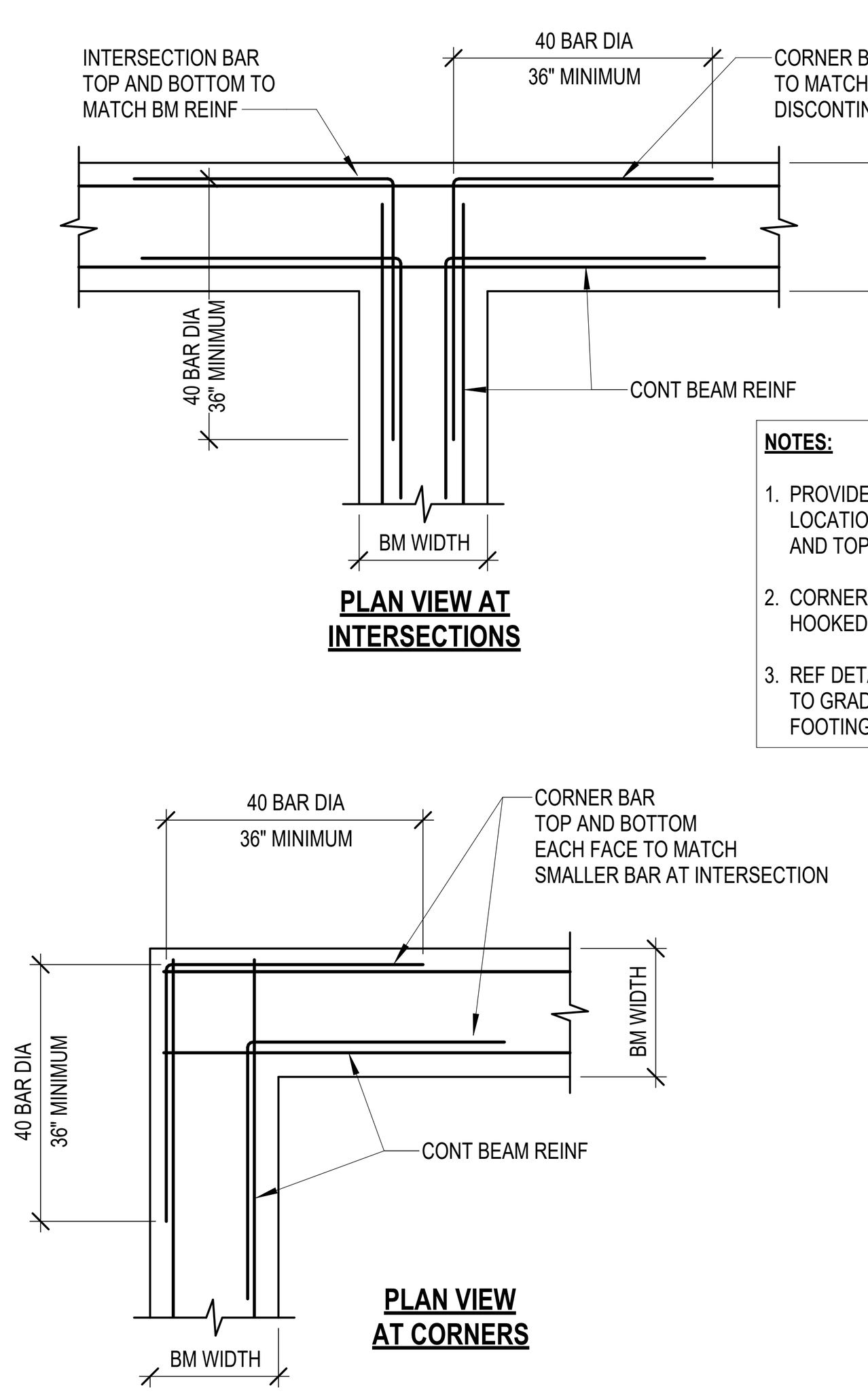
* - REF DETAIL 4/S-302A FOR TIE SPACING AT GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION. REF DETAIL 6/S-302A FOR TIES SPACING BELOW COLUMN WHERE PIER/ FOOTING IS NOT PRESENT BELOW COLUMN.



INTERMEDIATE BAR SCHEDULE

BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

1 GRADE BEAM SCHEDULE
NO SCALE



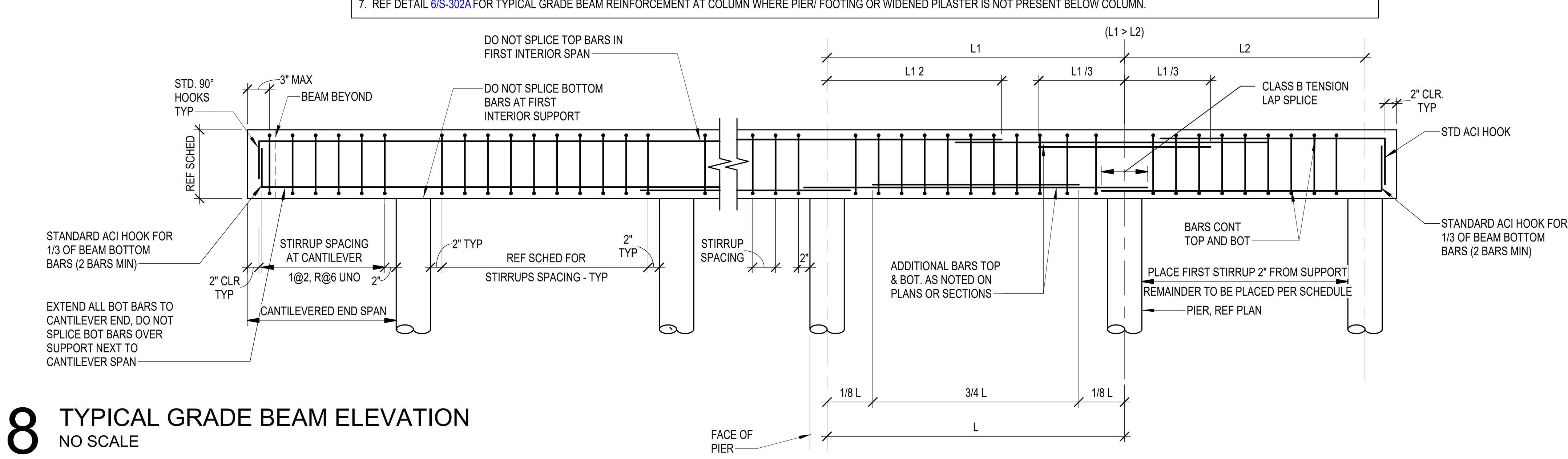
NOTES:

1. PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND TOP AND BOTTOM BARS.
2. CORNER BARS ARE NOT REQUIRED AT HOOKED ENDS. TURN HOOKS SIDEWAYS.
3. REF DETAIL 4/S-302A OR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION.

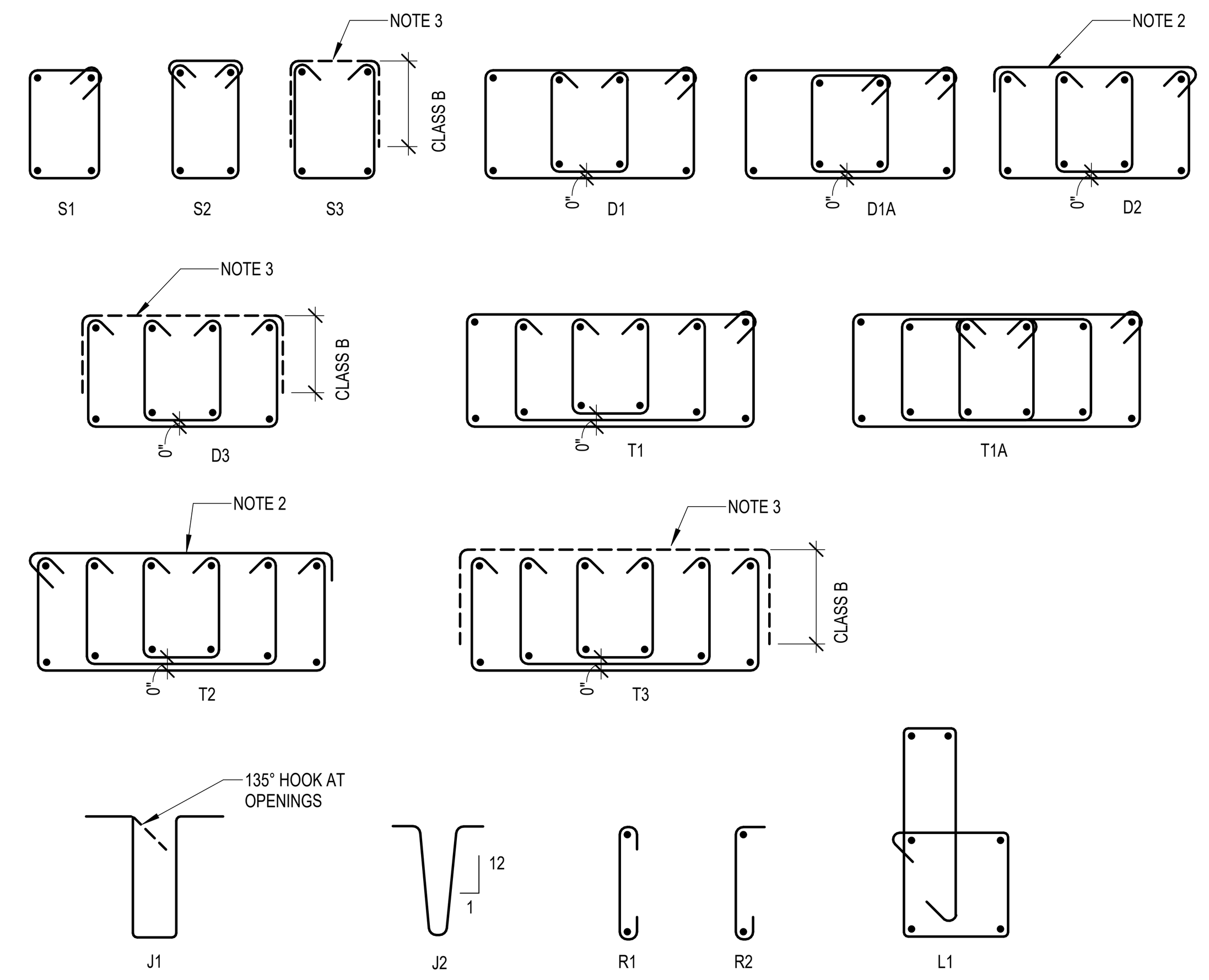
5 TYPICAL CORNER BAR DETAILS
NO SCALE

NOTES:

1. TOP CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
2. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
3. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.
4. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE. REF 1/S-302
5. REF TO DETAIL 6/S-302 FOR DROP IN TOP OR BOTTOM OF GRADE BEAM.
6. REF DETAIL 4/S-302A OR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION.
7. REF DETAIL 6/S-302A FOR TYPICAL GRADE BEAM REINFORCEMENT AT COLUMN WHERE PIER/ FOOTING OR WIDENED PILASTER IS NOT PRESENT BELOW COLUMN.

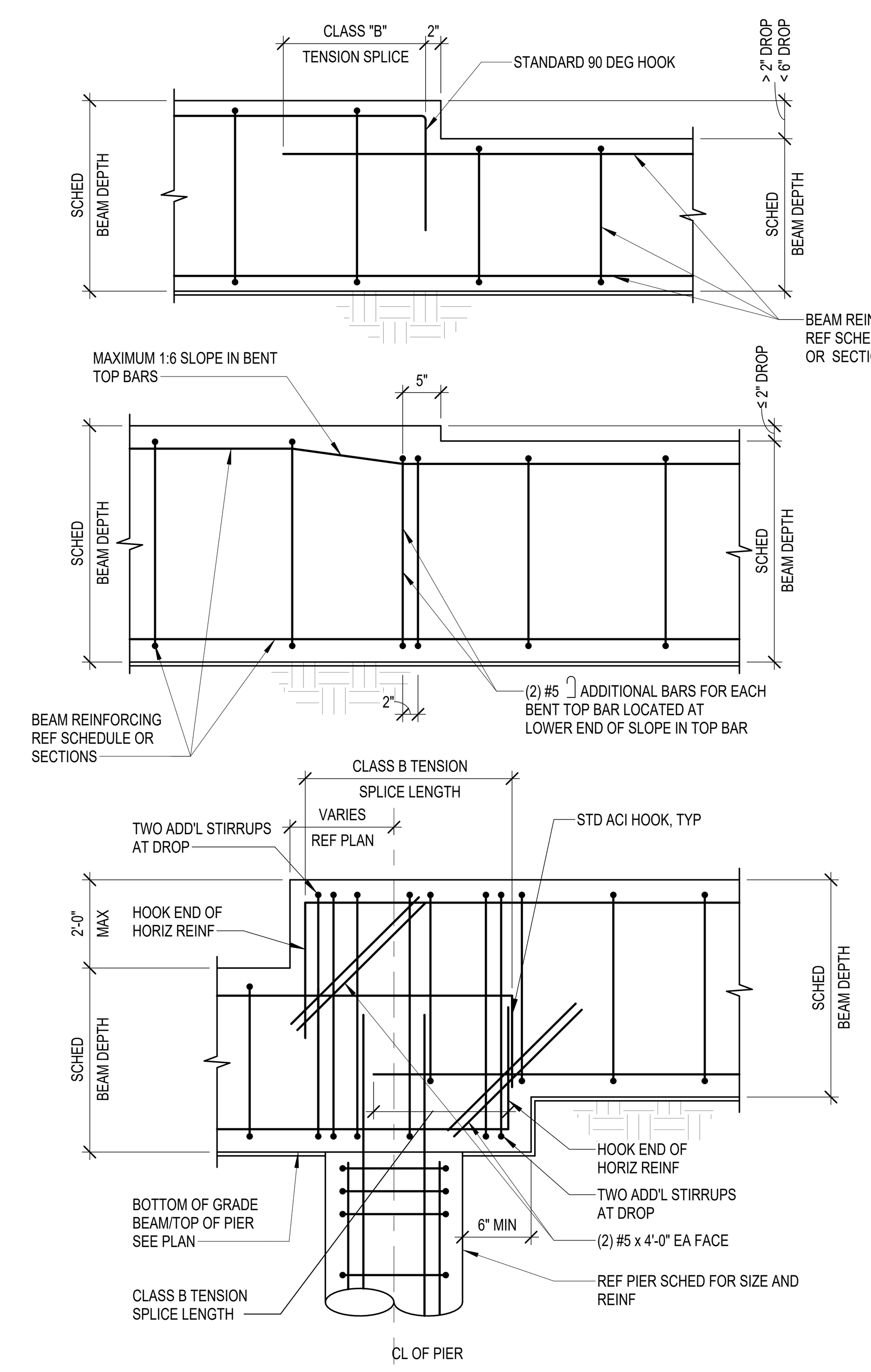


8 TYPICAL GRADE BEAM ELEVATION
NO SCALE



NOTES:
1. ALL HOOKS SHALL BE FABRICATED AS REQUIRED BY ACI. REFER TO "TYPICAL STIRRUP AND TIE HOOK TYPES."
2. THE TOP CAP FOR CLOSED STIRRUPS S15, S19, S24, AND S27 SHALL BE PLACED SUCH THAT THE 135° HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.
3. PROVIDE TOP CAP FOR OPEN STIRRUPS S3, S21, S22, AND S29 TO MATCH SCHEDULED STIRRUP SIZE AT 48".

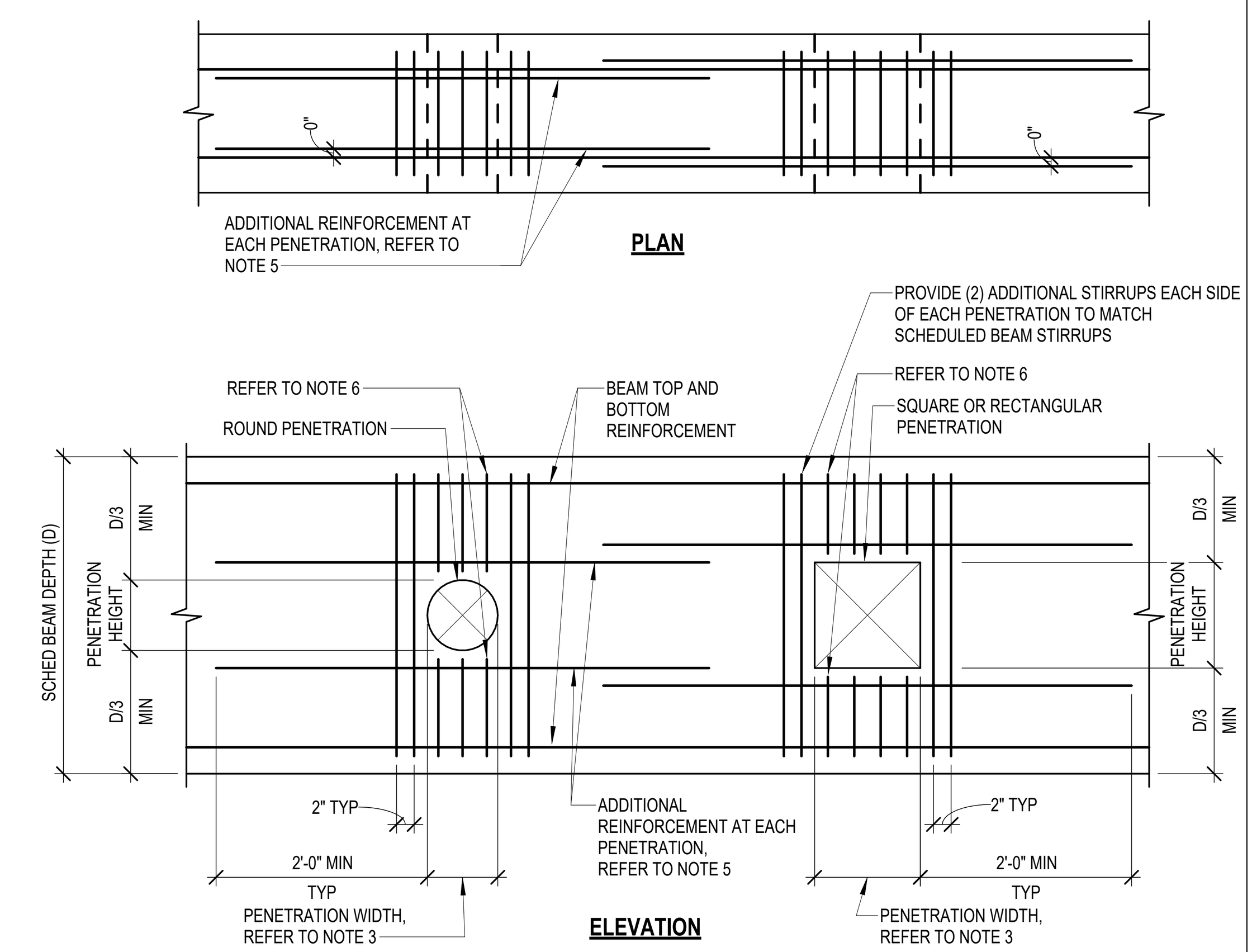
2 TYPICAL GRADE BEAM STIRRUP TYPES
3/4" = 1'-0"



6 TYPICAL GRADE BEAM STEPDOWN DETAIL
NO SCALE

NOTES:

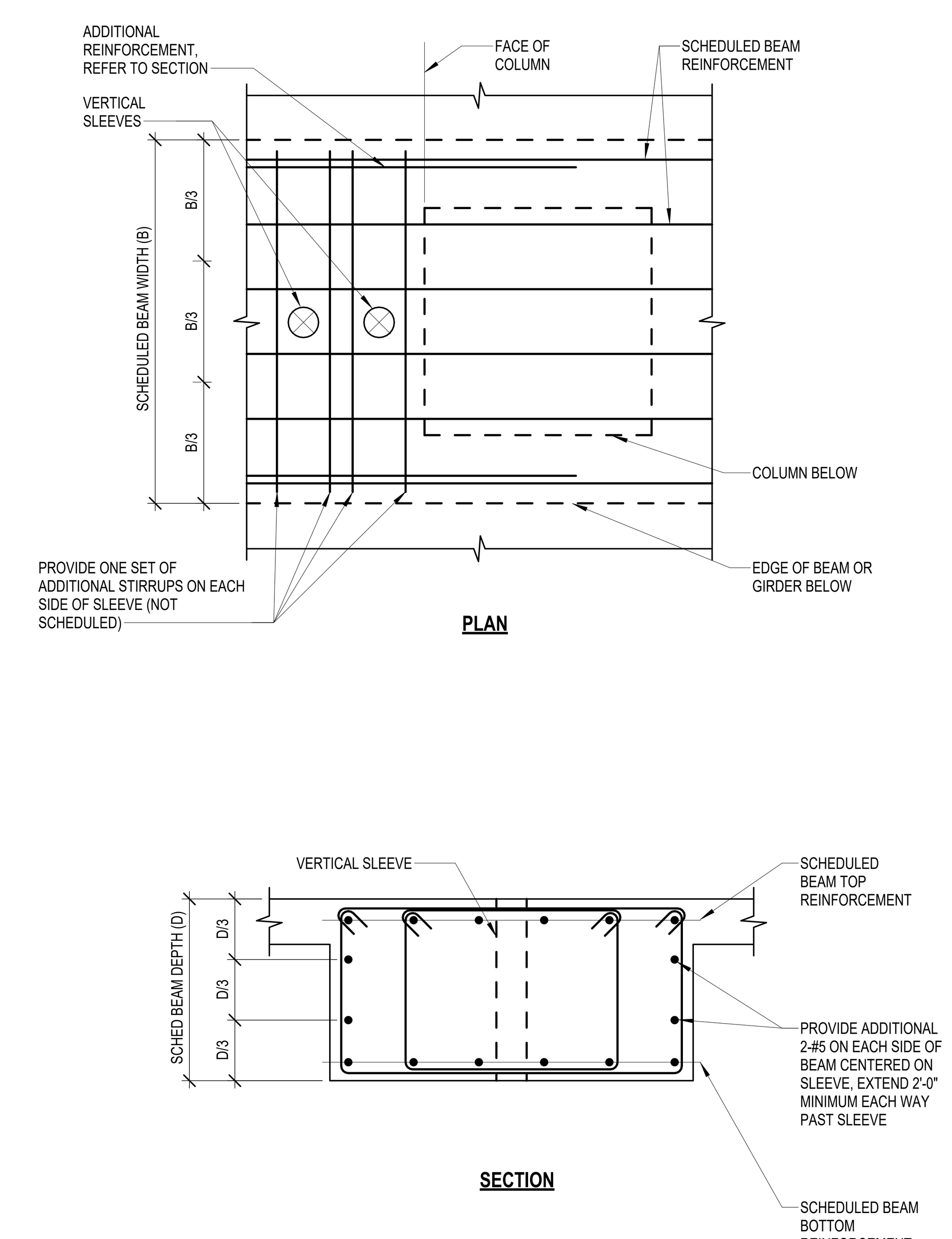
1. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS NOTED OTHERWISE BY THE STRUCTURAL ENGINEER.
2. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS CHECK WITH STRUCTURAL ENGINEER.
3. PENETRATION WIDTH MUST NOT EXCEED PENETRATION HEIGHT, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
4. FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE STRUCTURAL ENGINEER.
5. PROVIDE THE FOLLOWING REINFORCEMENT AT EACH SLEEVE, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS:
   1-#5 TOP AND BOTTOM AT BEAMS WITH WIDTHS LESS THAN 9".
   2-#5 TOP AND BOTTOM AT BEAMS WITH 2-LEG STIRRUPS.
   4-#5 TOP AND BOTTOM AT BEAMS WITH 4-LEG STIRRUPS.
   "N"-#5 TOP AND BOTTOM AT BEAMS WITH "N"-LEG STIRRUPS.
6. PROVIDE ADDITIONAL STIRRUPS ABOVE AND BELOW PENETRATIONS AT SPACING NOT TO EXCEED ONE THIRD OF THE SCHEDULED STIRRUP SPACING, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



3 TYPICAL HORIZONTAL PENETRATION IN CONCRETE BEAM
NO SCALE

NOTES:

1. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED BEAM SLEEVES WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SCHEDULED BEAM WIDTH.
3. CONTINUOUS BEAM REINFORCEMENT MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM) TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT.
4. SLEEVES OCCURRING ON OPPOSITE SIDES OF A COLUMN MUST BE IN LINE.
5. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE SCHEDULED WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.
6. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE ABOVE CONDITIONS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



9 TYPICAL VERTICAL PENETRATION IN CONCRETE BEAM
NO SCALE

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX 713-965-0608

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

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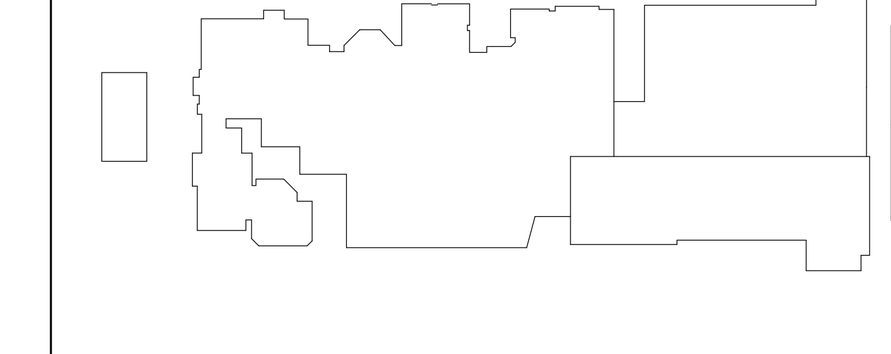
1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL GRADE BEAM NOTES AND TYP DETAILS

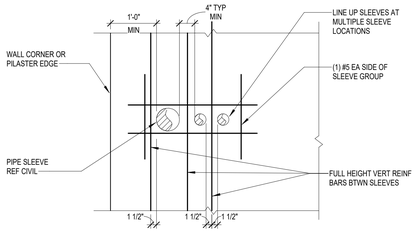
S-302

Plot Stamp:
12/5/2025 11:52:05 AM

GENERAL GRADE BEAM NOTES AND TYP DETAILS
S-302A

FOR BLUEBEAM LABELING/DOOR:

0"
1"



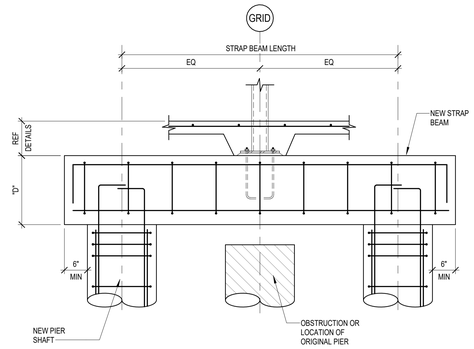
1 TYPICAL WALL PENETRATION DETAIL
NO SCALE

NOTE:

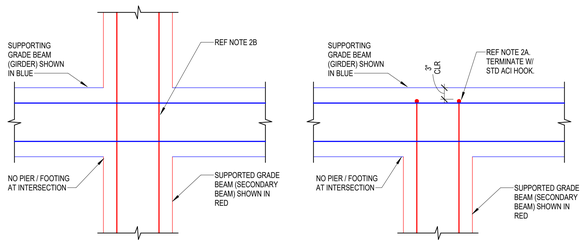
1. THIS DETAIL SHALL BE USED AT BUILDING SITES WHERE EXISTING UTILITIES, FOUNDATIONS OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE PIER INSTALLATIONS. THE ORIGINAL SINGLE PIER SHALL BE REPLACED WITH TWO NEW PIERS AND A NEW STRAP BEAM SHALL BE ADDED AS SHOWN. ANY UTILITY LINES THAT ARE ENCOUNTERED SHALL BE COVERED WITH CONCRETE.

STRAP BEAM SCHEDULE

ORIGINAL BELL DIAM (IN)	DBL PIER BELL SIZE (IN)	DBL PIER SHAFT SIZE (IN)	STRAP BEAM LENGTH	STRAP BEAM (W X D)	STRAP BEAM REINFORCING
24, 36	30	16	5'-0"	14"x24"	(2)-#7 T&B #3 @ 10"
42, 48	36	18	6'-0"	14"x24"	(3)-#6 T&B #3 @ 10"
54, 60	48	24	8'-0"	16"x24"	(2)-#6 TOP (4)-#7 BOTT #3 @ 10"
66, 72	54	28	9'-0"	20"x24"	(3)-#7 TOP (5)-#8 BOTT #3 @ 9"
78, 84	60	30	10'-0"	24"x24"	(3)-#7 TOP (6)-#9 BOTT #4 @ 9"



2 STRAP BEAM DETAIL AT CONSTRUCTION
NO SCALE



PLAN VIEW AT INTERSECTIONS

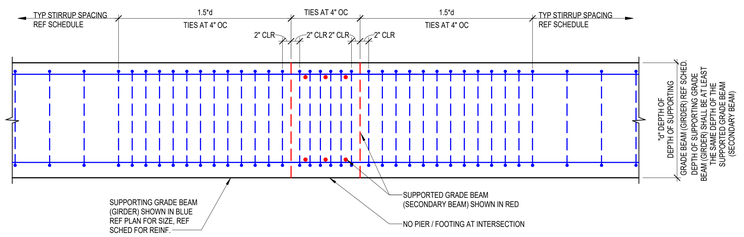
PLAN VIEW AT T-INTERSECTIONS

NOTES:

1. CONCRETE FOR SUPPORTING GRADE BEAM (GIRDER) AND SUPPORTED GRADE BEAM (SECONDARY BEAM) SHALL BE PLACED MONOLITHICALLY.

2. SUPPORTED GRADE BEAM (SECONDARY BEAM) LONGITUDINAL REINFORCEMENT INTO SUPPORTING GRADE BEAM (GIRDER):
   A. AT LEAST 1/3 OF BOTTOM BARS, BUT NOT LESS THAN TWO BARS, TO EXTEND INTO SUPPORTING BEAM (GIRDER) AND TERMINATE WITH STD ACI 90 DEGREE HOOK. ALL TOP BARS TO EXTEND AT LEAST Ldh INTO SUPPORTING BEAM (GIRDER) AND TERMINATE WITH STD HOOK IN TENSION. REF 3/S-300.
   B. LONGITUDINAL LAP SPLICES SHALL FOLLOW 8/S-302 ASSUMING SUPPORTING GRADE BEAM (GIRDER) IS THE PIER SUPPORT SHOWN IN 8/S-302.

3. REF 8/S-302 FOR INFORMATION NOT SHOWN OR ANNOTATED HERE. REF 5/S-302 FOR CORNER BARS. CORNER BARS, NOT SHOWN FOR CLARITY.



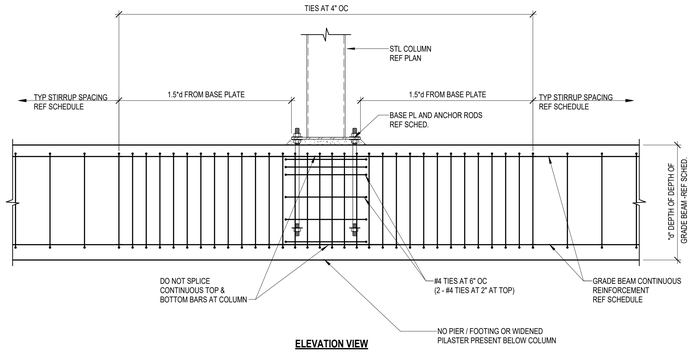
ELEVATION VIEW OF SUPPORTING GRADE BEAM (GIRDER)

4 TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION DETAIL
NO SCALE

NOTES:

1. PROVIDE WIDENED PILASTER AS SHOWN IN 3/S-303 WHERE GRADE BEAM WIDTH DOES NOT MEET PILASTER WIDTH REQUIREMENTS AT GRAVITY COLUMNS, UNO.

2. PROVIDE WIDENED PILASTER AS SHOWN IN 2/S-610 WHERE GRADE BEAM WIDTH DOES NOT MEET PILASTER WIDTH REQUIREMENTS AT BRACE FRAME COLUMNS AND FIXED BASE PLATES PER BASE PLATE SCHEDULE AND 2/S-610, UNO.



ELEVATION VIEW

6 TYPICAL GRADE BEAM REINF. AT COLUMN WITHOUT PIER BELOW
NO SCALE

PBK
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713-865-6008

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TX: HOU 1st F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

DRAWN BY: CML

GENERAL GRADE BEAM NOTES AND TYP DETAILS

S-302A

Plot Stamp:
12/5/2025 11:52:06 AM

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303

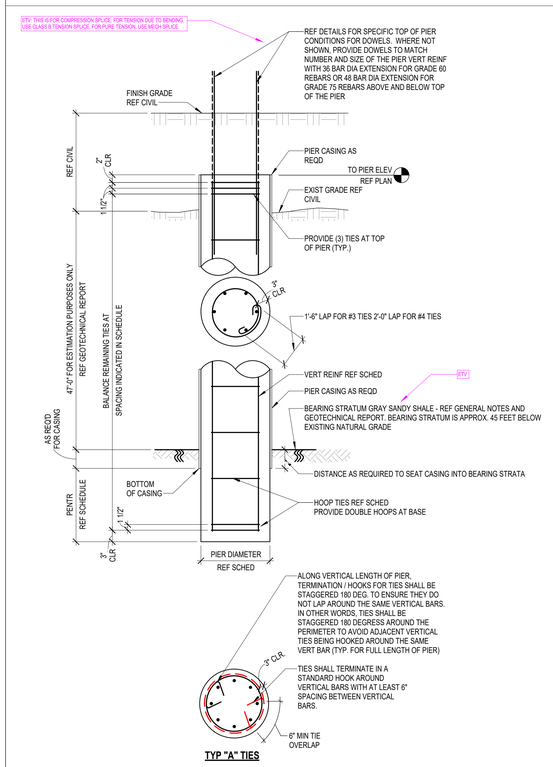
FOR BLUEBEAM LABEL/INDOOR:

0"

1"

STRAIGHT SHAFT PIERS:

1. PIER DESIGN IS BASED UPON THE FOLLOWING CRITERIA. REFER TO TYPICAL PIER DETAIL FOR PIER SCHEDULE AND REINFORCING.
   - A. ALLOWABLE END BEARING PRESSURE..... 7,500 PSF
   - B. SIDE FRICTION RESISTANCE..... 300 PSF FOR 8FT TO 13FT, 400 PSF FOR 13FT TO 40FT AND 600 PSF FOR 40FT TO 50FT
   - C. SIDE FRICTION (UPLIFT RESISTANCE)..... X.X PSF
   - D. UPLIFT PRESSURE (FROM SOIL)..... X.X PSF
   - E. MINIMUM PENETRATION INTO BEARING STRATUM..... X.X FT
   - F. BEARING STRATUM..... 50.0 FT
2. UNLESS NOTED OTHERWISE BY THE OWNER OR ARCHITECT, THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR DURING EARTHWORK OPERATIONS, AND KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT ON SITE DURING OPERATIONS. SERVICES PROVIDED SHALL INCLUDE:
   - A. OBSERVING THE BOTTOM OF SHAFT FOR CLEANLINESS.
   - B. PROPER BEARING MATERIAL SHALL BE VERIFIED BEFORE CONCRETE POURING OCCURS. THE TOP ELEVATION OF PIERS IS SHOWN ON THE DRAWINGS. THE ACTUAL BEARING ELEVATION MAY VARY AS REQUIRED TO PROVIDE PROPER CAPACITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER OF RECORD.
   - C. CHECKING SHAFT FOR CONFORMANCE TO REQUIRED TOLERANCES. FOOTINGS SHALL BE WITHIN 3" OF THEIR REQUIRED LOCATIONS AND SHAFTS SHALL NOT BE OUT OF PLUMB BY MORE THAN 2 PERCENT OF THE SHAFT LENGTH. CHECK THAT THE BELL IS CONCENTRIC WITH THE SHAFT.
3. ENSURE THAT ALL SPOILS FROM THE DRILLED PIER EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD AND THAT THE PAD IS MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED.
4. ESTABLISH TOP OF FOOTINGS/PIERS AT ELEVATIONS SHOWN ON PLANS. IF FIELD CONDITIONS REQUIRE CHANGES TO REACH THE DESIRED STRATUM, ADJUSTMENTS TO CONTRACT ARE TO BE MADE ON A UNIT PRICE BASIS. CONTRACTOR SHALL PROVIDE UNIT PRICE ADD AND DEDUCT FOR EACH PIER SIZE ON THE PROJECT.
5. PIER CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND AS PER THE LATEST VERSION OF ACI 336. DRILLED HOLES ARE TO BE EXCAVATED, CLEANED, REINFORCED, AND FILLED WITH CONCRETE DURING THE SAME DAY. NO HOLE IS TO BE LEFT OPEN OVERNIGHT. PUMP ANY ACCUMULATED WATER FROM THE PIER HOLES PRIOR TO CONCRETE PLACEMENT. REFER TO THE GEOTECHNICAL REPORT FOR CASING REQUIREMENTS.
6. REINFORCING CAGE SHALL BE HELD SECURELY AWAY FROM EARTH AT SIDES AND BOTTOM BY SETS OF 3 OR MORE SPACERS AT A MAXIMUM SPACING OF 5 FEET ALONG THE LENGTH OF THE CAGE AND 1 FOOT FROM THE BOTTOM.
7. THE CONTRACTOR SHALL VERIFY DEPTHS OF PIERS BEFORE PIER STEEL IS CUT. PIER STEEL MAY BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS OF 40 OR 60 FEET AND CUT AS REQUIRED. PROVIDE 64 BAR DIAMETER LAPS IN ALL VERTICAL PIER REINFORCING.
8. WHERE THE CLEAR DISTANCE BETWEEN TWO PIERS IS LESS THAN THE PIER DIAMETER OF THE LARGER PIER, WAIT AT LEAST 48 HOURS AFTER CASTING THE FIRST PIER BEFORE DRILLING THE SECOND PIER.
9. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE ADD AND UNIT PRICE DEDUCT FOR EACH PIER SIZE UTILIZED ON THE PROJECT.
10. THE PRICE FOR CASING OF PIERS OR SLURRY METHOD SHALL BE INCLUDED WITHIN THE BASE BID FOR ALL STRAIGHT SHAFT PIERS ON THE PROJECT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR 100% CASING OF DRILLED PIERS. CONTRACTOR SHALL ALSO PROVIDE UNIT PRICE FOR EACH SIZE OF CASING UTILIZED ON THE PROJECT. PAYMENT FOR CASING SHALL BE BASED UPON NET LENGTH OF CASING UTILIZED MULTIPLIED BY THE UNIT PRICE.



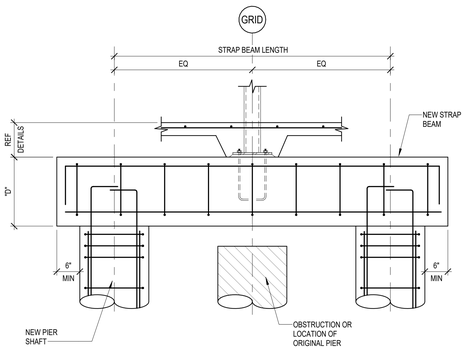
TYP "A" TIES

NOTE:

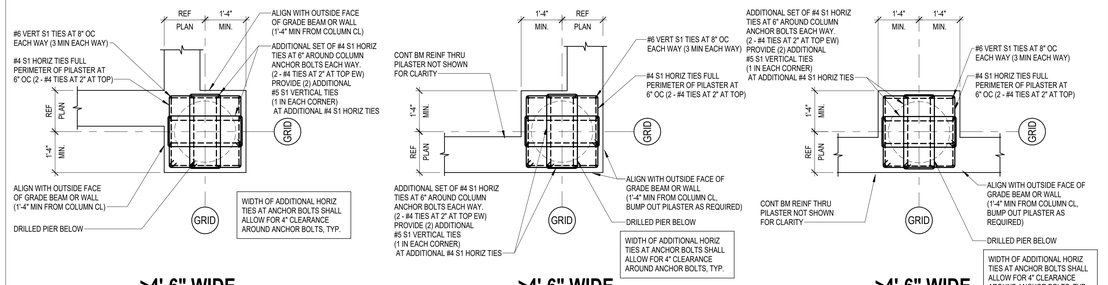
1. THIS DETAIL SHALL BE USED AT BUILDING SITES WHERE EXISTING UTILITIES, FOUNDATIONS OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE PIER INSTALLATIONS. THE ORIGINAL SINGLE PIER SHALL BE REPLACED WITH TWO NEW PIERS AND A NEW STRAP BEAM SHALL BE ADDED AS SHOWN. ANY UTILITY LINES THAT ARE ENCOUNTERED SHALL BE COVERED WITH CONCRETE.

STRAP BEAM SCHEDULE

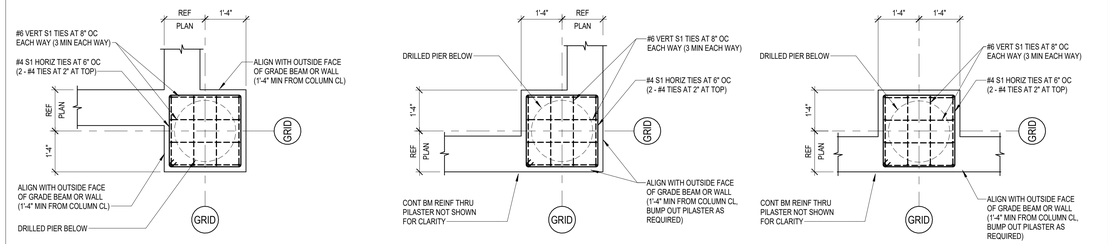
ORIGINAL BELL DIAM (IN)	DBL PIER BELL SIZE (IN)	DBL PIER SHAFT SIZE (IN)	STRAP BEAM LENGTH	STRAP BEAM (W X D)	STRAP BEAM REINFORCING
24, 36	30	16	5'-0"	14"x24"	(2)-#7 T&B #3 @ 10"
42, 48	36	18	6'-0"	14"x24"	(3)-#6 T&B #3 @ 10"
54, 60	48	24	8'-0"	16"x24"	(2)-#6 TOP (4)-#7 BOTT #3 @ 10"
66, 72	54	28	9'-0"	20"x24"	(3)-#7 TOP (5)-#8 BOTT #3 @ 9"
78, 84	60	30	10'-0"	24"x24"	(3)-#7 TOP (6)-#9 BOTT #4 @ 9"



2 STRAP BEAM DETAIL AT CONSTRUCTION
NO SCALE



>4'-6" WIDE PLAN VIEW



INSIDE CORNER PILASTER

OUTSIDE CORNER PILASTER

INTERIOR PILASTER

3 TYPICAL PILASTER DETAILS AT PIERS
NO SCALE

NOTE(S):

1. DEPTH OF BEARING STRATUM IS INDICATED FOR INFORMATION ONLY. ACTUAL DEPTH MAY VARY. REFER TO THE GEOTECHNICAL REPORT AND THE GRADING PLAN FOR DEPTH OF BEARING STRATUM BELOW FINISH FLOOR, AND ADJUST DEPTHS AS REQD. CONTRACTOR TO PROVIDE AN ALLOWANCE ON PER LINEAR FOOT BASIS FOR ADD AND DEDUCT.
2. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PIER CASINGS OR SLURRY METHOD ON A PER LINEAR FOOT BASIS AS PER DIVISION 1 OF THE PROJECT SPECIFICATIONS. ALSO REFER TO THE GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS.
3. SPLICE VERTICAL REINFORCING IN PIERS WITH CLASS B TENSION LAP SPLICE.
4. FOR PIERS LOCATED WITHIN THREE SHAFT DIAMETERS CLEAR SPACING, THE SECOND PIER SHALL BE DRILLED A MIN OF 48 HOURS AFTER THE FIRST.
5. TEMPORARY CASING AND/OR SLURRY METHOD IS REQUIRED, CASING SHALL BE SIZED TO MAINTAIN THE PIER DIAMETER INDICATED IN SCHEDULE. THE PIER EMBED SHALL BE INCREASED FOR ANY ADDITIONAL SEATING DISTANCE OF THE CASING NEEDED TO SEAL OFF THE WATER.

STRAIGHT SHAFT PIER SCHED.

MARK	SIZE			REINFORCING		TIES	
	DIAMETER	EMBED	TOTAL LENGTH	VERT. REINF.	TOP BAR/DOWEL TERMINATION	SIZE	SPACING
P1	1'-6"	5'-0"	52'-0"	(6) #6	STD. HOOK	#4	8" OC
P2	2'-0"	5'-0"	52'-0"	(8) #6	STD. HOOK	#4	8" OC
P3	2'-6"	5'-0"	52'-0"	(8) #7	STD. HOOK	#4	10" OC
P4	3'-0"	5'-0"	52'-0"	(9) #8	STD. HOOK	#4	10" OC
P5	3'-6"	5'-0"	52'-0"	(11) #9	STD. HOOK	#4	8" OC
P6	4'-0"	5'-0"	52'-0"	(15) #10	STD. HOOK	#4	8" OC
P7	4'-6"	5'-0"	52'-0"	(18) #10	STD. HOOK	#4	8" OC
P8	5'-0"	5'-0"	52'-0"	(20) #11	STD. HOOK	#4	8" OC
P9	5'-6"	5'-0"	52'-0"	(23) #11	STD.HOOK	#3	8" OC

5 TYPICAL STRAIGHT SHAFT PIER SCHEDULE
NO SCALE

Plot Stamp:
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Kubala ENGINEERS
Phone: 832.607.0776
www.kubalaengineers.com
TX REG'S NO.: F-23612

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

DRAWN BY: CML

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303

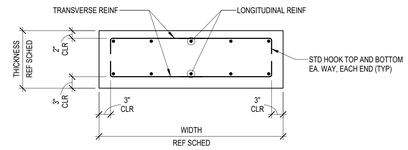
GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303SF

FOR BLUEBEAM LABELING/DOOR:

FOOTINGS:

1. FOOTING DESIGN IS BASED UPON THE FOLLOWING CRITERIA. REFER TO TYPICAL FOOTING DETAIL FOR FOOTING SCHEDULE AND REINFORCING. DISTRIBUTION OF FOOTING TYPES AS INDICATED ON PLANS.
   - A. NET ALLOWABLE SOIL BEARING PRESSURE..... XXX PSF
   - B. MINIMUM FOOTING BEARING DEPTH..... XXX FT BELOW FINAL EXTERIOR GRADE
   - C. MINIMUM WALL FOOTING WIDTH..... XXX INCHES
   - D. MINIMUM COLUMN FOOTING WIDTH..... XXX INCHES
   - E. COEFFICIENT OF BASE FRICTION AT FOOTING BASE..... XXX
   - F. ALLOWABLE PASSIVE EARTH PRESSURE FOR FOOTINGS BEARING AGAINST NATIVE SANDS OR SAND BACKFILL..... XXX PSF/FT
   - G. ALLOWABLE PASSIVE EARTH PRESSURE FOR FOOTINGS BEARING AGAINST NATIVE CLAYS OR PROPERLY PLACED AND COMPACTED CLAY BACKFILL..... XXX PSF
   - H. DEPTH OF SOIL WHERE PASSIVE EARTH PRESSURE SHALL BE NEGLECTED..... XXX FT FROM ADJACENT GRADE
   - I. BEARING STRATUM..... XXXXX
2. FOOTINGS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE LOCATED ON CENTERLINE OF THE COLUMN ABOVE, WHERE NO COLUMN OCCURS, LOCATE FOOTING ON CENTERLINE OF WALL OR BEAM.
3. PROVIDE DOWELS FROM FOOTINGS INTO CONCRETE ABOVE PER THE TYPICAL FOOTING DETAIL.
4. ELEVATION OF TOP OF FOOTING IS NOTED ON DRAWINGS.
5. REFERENCE PLANS AND FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCING, AND DEPTH OF BEARING STRATUM.
6. ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF THE PROJECT'S GER IN ORDER TO ENSURE THAT THE BEARING STRATUM IS PROPER AND IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.
7. USE TEMPLATES TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. PROVIDE DETAILS OF THE TEMPLATES IN THE FOOTING SHOP DRAWINGS. REMOVE THE TEMPLATE COMPLETELY FROM THE TOP OF THE FOOTING PRIOR TO SUPERSTRUCTURE CONSTRUCTION.
8. UNLESS REQUIRED BY THE PROJECT'S GER TO BE FORM-SIDED, THE FOOTING EXCAVATIONS SHALL BE MADE TO NEAT LINES AND SHALL BE FREE OF LOOSE OR WET MATERIALS. CONCRETE CAN BE PLACED DIRECTLY AGAINST THE SOIL WITHOUT FORMING.
9. PLACE CONCRETE IN FOOTING EXCAVATION WITHIN 8 HOURS OF FINAL EXCAVATION OR AS SPECIFIED IN THE GEOTECHNICAL REPORT.



REINF DIAGRAM

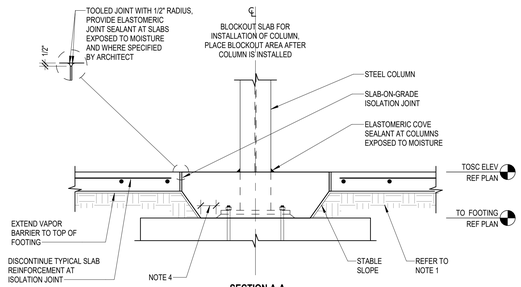
SPREAD FOOTING SCHEDULE

MARK	WIDTH (FT-IN)	LENGTH (FT-IN)	THICKNESS (FT-IN)	LONGITUDINAL TOP REINF	LONGITUDINAL BOT REINF	TRANSVERSE TOP REINF	TRANSVERSE BOT REINF	REMARKS
F4	4' - 0"	4' - 0"	2' - 0"	#4 @ 12" OC	#5 @ 10" OC	#4 @ 12" OC	#5 @ 10" OC	
F6	6' - 0"	6' - 0"	2' - 0"	#5 @ 12" OC	#7 @ 10" OC	#5 @ 12" OC	#7 @ 10" OC	
F8	8' - 0"	8' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	
F10	10' - 0"	10' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	
F12	12' - 0"	12' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	
F14	14' - 0"	12' - 0"	2' - 0"	#6 @ 10" OC	#8 @ 10" OC	#6 @ 10" OC	#8 @ 10" OC	
F16	16' - 0"	8' - 0"	2' - 0"	#7 @ 10" OC	#8 @ 10" OC	#7 @ 10" OC	#8 @ 10" OC	
F17	17' - 0"	7' - 0"	2' - 0"	#6 @ 10" OC	#8 @ 10" OC	#6 @ 10" OC	#8 @ 10" OC	
F19	19' - 0"	12' - 0"	2' - 0"	#7 @ 10" OC	#8 @ 10" OC	#7 @ 10" OC	#8 @ 10" OC	
F25	25' - 0"	12' - 0"	2' - 0"	#7 @ 10" OC	#8 @ 10" OC	#7 @ 10" OC	#8 @ 10" OC	
F31	31' - 0"	12' - 0"	2' - 0"	#8 @ 10" OC	#8 @ 10" OC	#8 @ 10" OC	#8 @ 10" OC	

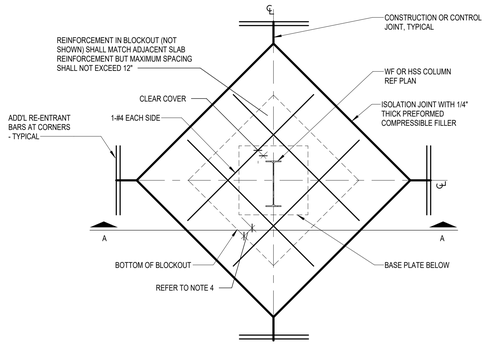
CONTINUOUS FOOTING SCHED.

TYPE	WIDTH (FT-IN)	THICKNESS	LONGITUDINAL TOP REINF.	LONGITUDINAL BOT REINF.	TRANSVERSE TOP REINF.	TRANSVERSE BOT REINF.	REMARKS
F-CONT	4'-0"	1'-6"	X @ X" OC	X @ X" OC	X @ X" OC	X @ X" OC	-

1 TYPICAL FOOTING REINF DIAGRAM AND SCHEDULE
NO SCALE



SECTION A-A

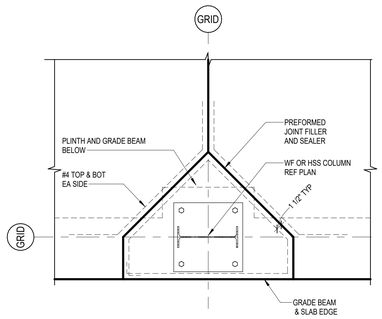


PLAN

NOTES:

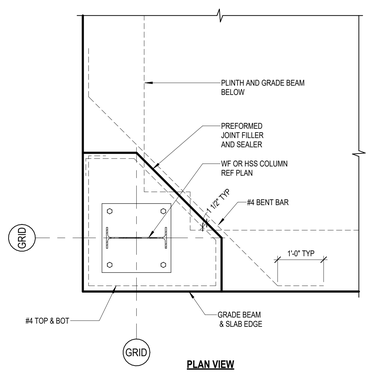
1. REFER TO "TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION" FOR SUBGRADE PREPARATION REQUIREMENTS INCLUDING LOCATION OF VAPOR BARRIER RELATIVE TO SLAB AND GRANULAR BASE AND WHETHER FINE-GRADE GRANULAR MATERIAL IS REQUIRED.
2. REFER TO "TYPICAL CONSTRUCTION AND CONTROL JOINTS - SLAB-ON-GRADE" FOR CONSTRUCTION AND CONTROL JOINT REQUIREMENTS.
3. CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCKOUT FOR STRUCTURAL STEEL COLUMNS WITH STEEL ERECTOR. SUBMIT THE DESIRED BLOCKOUT SIZE TO ARCHITECT FOR APPROVAL.
4. BLOCKOUT SHALL BE SIZED TO PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
5. THE BLOCKOUT SHALL BE KEYWAYED WITH RE-ENTRANT BARS.

2 TYPICAL SLAB-ON-GRADE INTERIOR BLOCKOUT DETAIL
NO SCALE



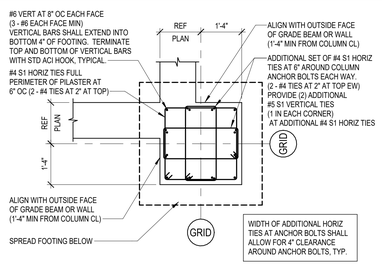
PLAN VIEW

4 TYPICAL SLAB-ON-GRADE PERIMETER BLOCKOUT DETAIL
NO SCALE



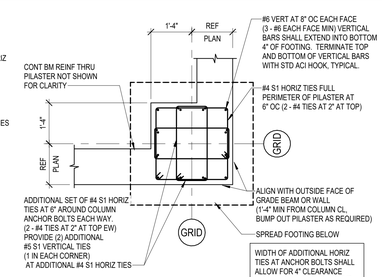
PLAN VIEW

5 TYPICAL SLAB-ON-GRADE CORNER BLOCKOUT DETAIL
NO SCALE



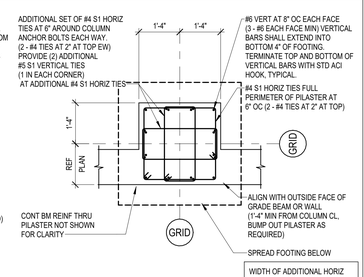
>4'-6" WIDE PLAN VIEW

INSIDE CORNER PILASTER



>4'-6" WIDE PLAN VIEW

OUTSIDE CORNER PILASTER



>4'-6" WIDE PLAN VIEW

INTERIOR PILASTER

3 TYPICAL PILASTER DETAILS AT SPREAD FOOTING
NO SCALE

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KEY PLAN
NORTH: PLAN TRUE



12/05/2025
Kubala Engineers
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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303SF

Plot Stamp:
12/5/2025 11:52:09 AM

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-304

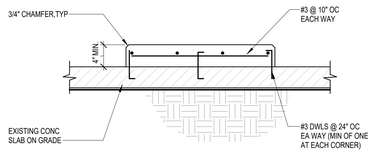
FOR BLUEBEAM LABELING/DOOR:

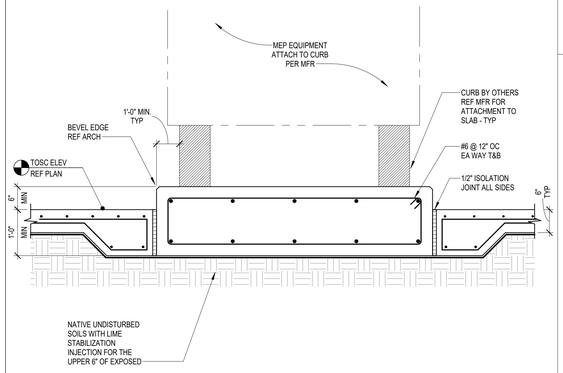
0"

1"

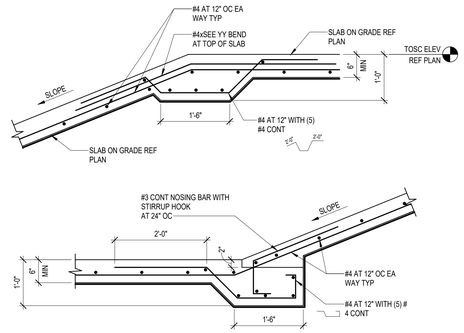
NOTES:

1. GENERAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE LOCATIONS OF HOUSEKEEPING PADS, AND TO PROVIDE WHERE REQUIRED, IF NONE ARE SHOWN ON THE STRUCTURAL DRAWINGS.
2. COORDINATE ALL PAD DIMENSIONS, AND VERIFY ADEQUACY WITH THE MECHANICAL ENGINEER AND THE EQUIPMENT REQUIREMENTS.
3. EQUIPMENT SKIDS/ATTACHMENT TO FOUNDATION SHALL BE DEFERRED SUBMITTAL SIGNED BY REGISTERED P.E. RESPONSIBLE FOR THEIR DESIGN.

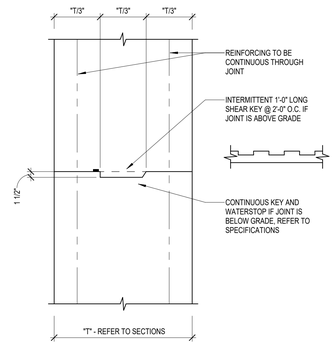




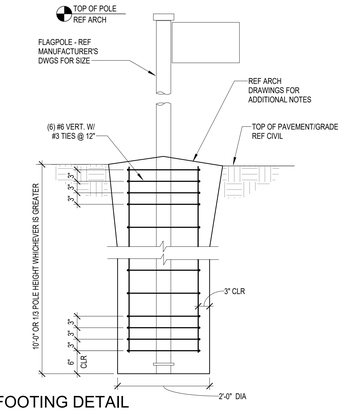
1 TYPICAL CONCRETE HOUSEKEEPING PAD DETAIL
NO SCALE



2 SLAB-ON-GRADE SLOPE REINF
NO SCALE



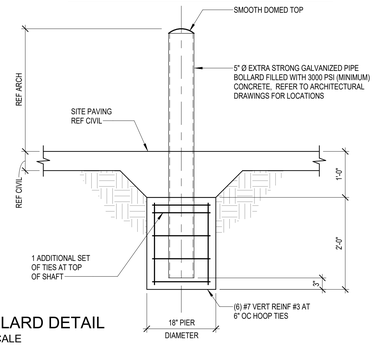
3 TYP HORIZONTAL CONSTRUCTION JOINT IN BEAMS AND WALLS OR VERTICAL CONSTRUCTION JOINT IN WALLS
NO SCALE



4 FLAGPOLE FOOTING DETAIL
NO SCALE

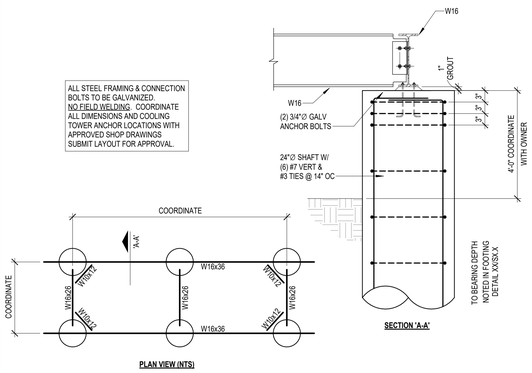
NOTE:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF BOLLARD LOCATIONS WITH THE ARCHITECTURAL DRAWINGS AND SHALL PROVIDE BOLLARDS WHERE REQUIRED WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.



5 BOLLARD DETAIL
NO SCALE

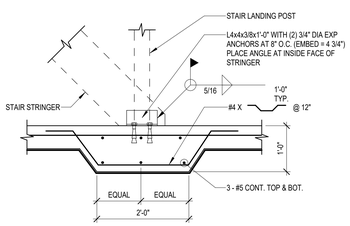
ALL STEEL FRAMING & CONNECTION BOLTS TO BE GALVANIZED.
NO FIELD WELDING. COORDINATE ALL DIMENSIONS AND COOLING TOWER ANCHOR LOCATIONS WITH APPROVED SHOP DRAWINGS
SUBMIT LAYOUT FOR APPROVAL.



6 COOLING TOWER SUPPORT DETAIL
NO SCALE

NOTE:

1. CONTRACTOR TO COORDINATE LOCATIONS OF STIFFENER BEAMS TO ALIGN WITH LOCATIONS OF STAIR STRINGERS & LANDING POSTS. COORDINATE WITH STAIR MANUFACTURER AS REQUIRED.



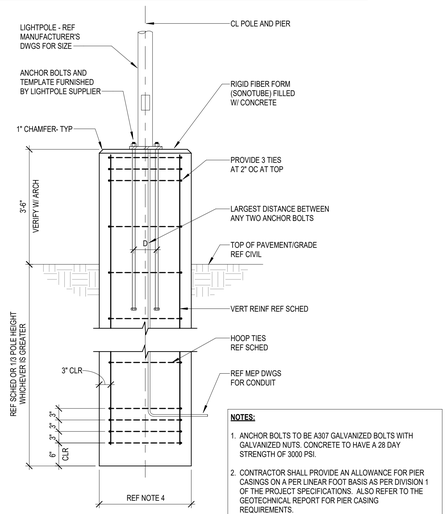
7 TYPICAL SLAB STIFFENER UNDER STAIR STRINGER
NO SCALE

LIGHT POLE BASE SCHEDULE

MAX POLE HT	MIN PIER DIAMETER	MIN DEPTH	VERT REINF	HOOP TIES	NOTES
18'-0" TO 24'-0"	18"	12'-0"	(6) #6	#3 AT 12" OC	1,2
25'-0" TO 30'-0"	24"	12'-0"	(6) #6	#3 AT 12" OC	1,2

NOTE(S):

1. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PIER CASINGS ON A PER LINEAR FOOT BASIS AS PER DIVISION 1 OF THE PROJECT SPECIFICATIONS. ALSO REFER TO THE GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS.
2. SPLICE VERTICAL REINFORCING IN PIERS WITH CLASS B TENSION LAP SPLICE.
3. OPTIONAL CONSTRUCTION JOINT IS ACCEPTABLE. DO NOT SPLICE VERTICAL REINFORCING ABOVE JOINT.
4. FOUNDATION DETAIL IS BASED ON A MAXIMUM FIXTURE EPA OF 1.2 — ENGR: CHECK MAX EPA



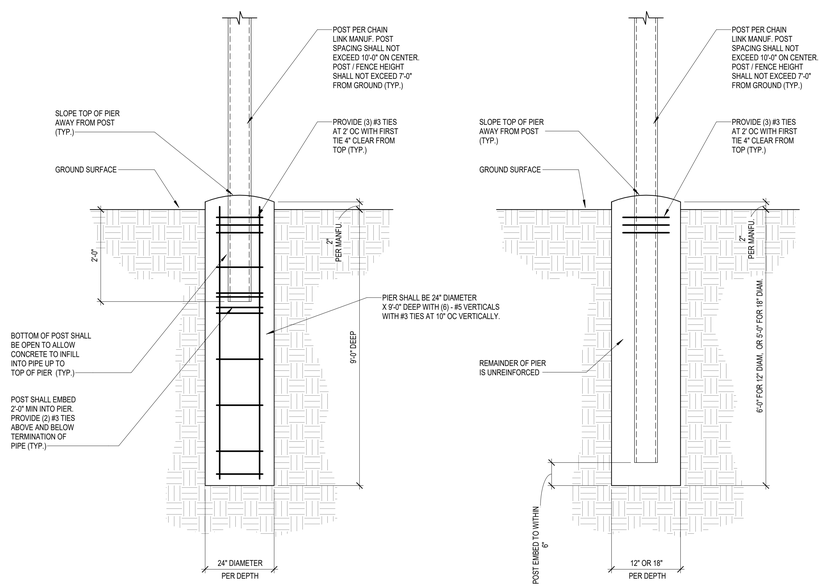
NOTES:

1. ANCHOR BOLTS TO BE A307 GALVANIZED BOLTS WITH GALVANIZED NUTS. CONCRETE TO HAVE A 28 DAY STRENGTH OF 3000 PSI.
2. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PIER CASINGS ON A PER LINEAR FOOT BASIS AS PER DIVISION 1 OF THE PROJECT SPECIFICATIONS. ALSO REFER TO THE GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS.
3. REF MEP DRAWINGS FOR EMBEDDED CONDUIT, WIRES, ETC.
4. MIN PIER DIAMETER SHALL BE THE GREATER OF D PLUS 9" OR THE MIN PIER DIAMETER IN THE SCHEDULE.

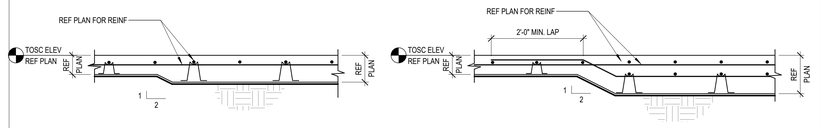
8 LIGHTPOLE FOOTING DETAIL
NO SCALE

THIS DETAIL SHALL BE USED FOR SOLID FILL CHAIN LINK WITH WIND SCREEN OR OTHER SLATTED - TYPE INFILL. GC COORD LOCATION W/ ARCH

THIS DETAIL SHALL BE USED FOR OPEN CHAIN LINK WITH NO WINDSCREEN OR OTHER SLATTED - TYPE INFILL. GC COORD LOCATION W/ ARCH



9 CHAIN LINK FENCE POST DETAIL
NO SCALE



10 TYPICAL CHANGE IN SLAB THICKNESS
NO SCALE

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STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-304

GENERAL EXISTING FOUNDATION NOTES AND TYP DETAILS
S-305
FOR BLUEBEAM LABELING/OCR:

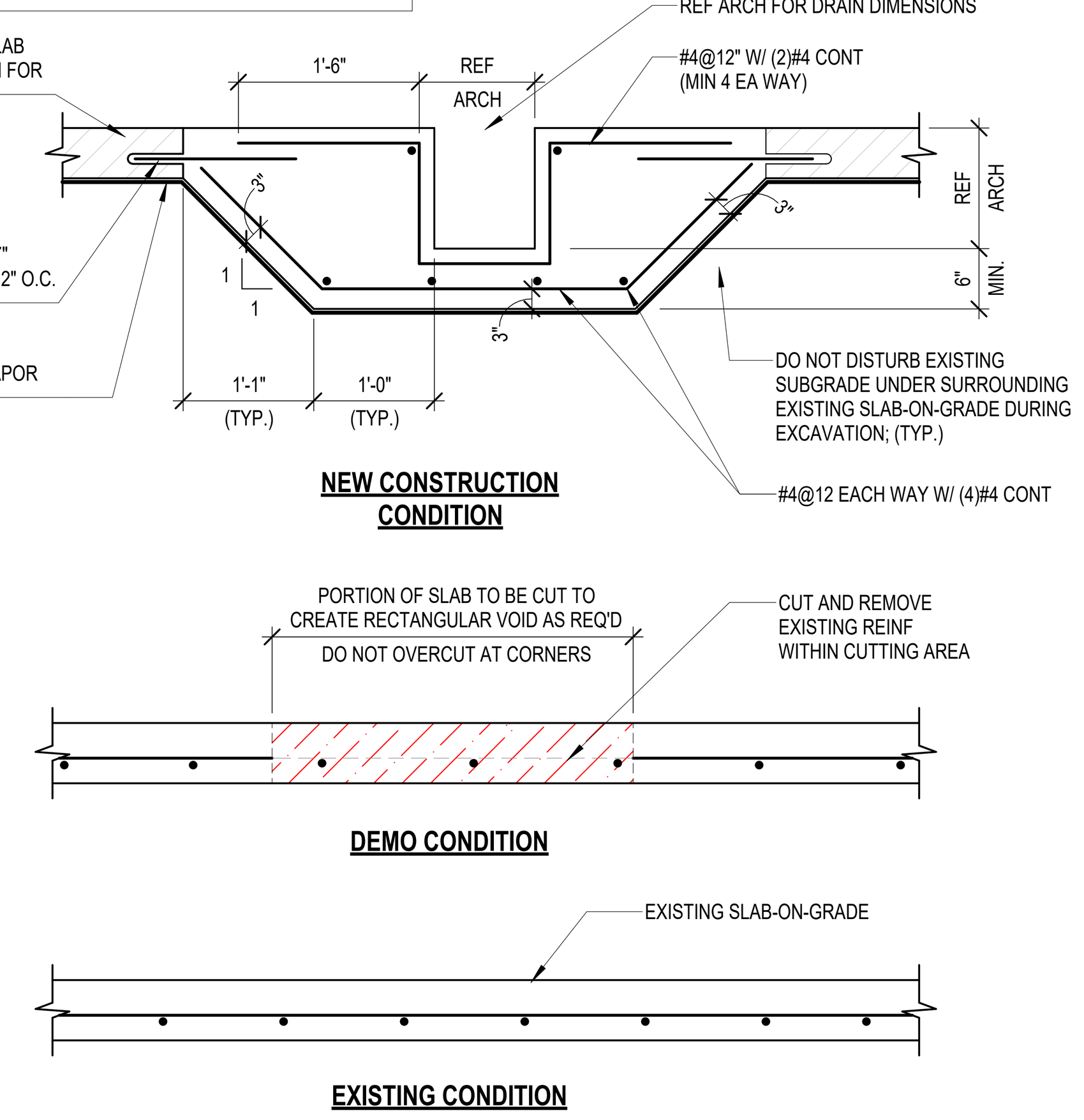
EXISTING STRUCTURE AND CONDITIONS:

1. EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING WERE UNAVAILABLE. ALL EXISTING STRUCTURE SHOWN ON PLANS IS BASED ON SITE OBSERVATIONS AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.
13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

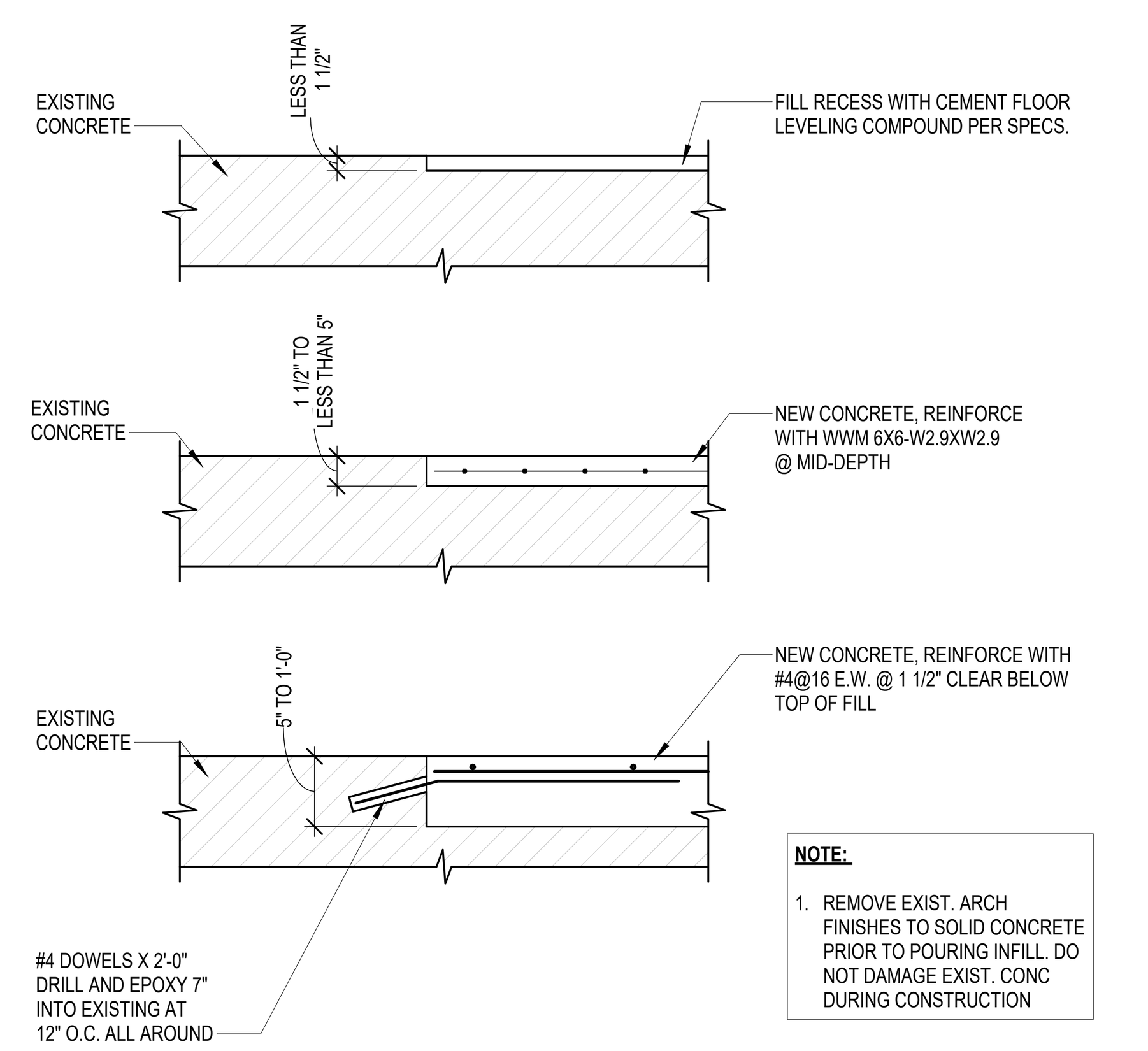
1. EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING WERE UNAVAILABLE. ALL EXISTING STRUCTURE SHOWN ON PLANS IS BASED ON SITE OBSERVATIONS AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS,FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONSOF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
7. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION SUBCONTRACTOR WHO MEETS THE FOLLOWING REQUIREMENTS:
   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
8. THE STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION AND TEMPORARY SHORINGDELEGATED DESIGN ENGINEER WHO IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND SPECIALIZES IN DEMOLITION AND TEMPORARY STRUCTURES. THE DELEGATED DESIGN ENGINEER IS RESPONSIBLE FOR THE FOLLOWING:
   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OFWORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
   A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.
10. THE GENERAL CONTRACTOR SHALL PROVIDE A "TWO-WEEK LOOK AHEAD" TO INDICATE UPCOMING AREAS WHERE DEMOLITION WORK IS SCHEDULED TO TAKE PLACE, SO ALL PARTIES ARE AWARE OF TIMELINE AND ANY COORDINATION WITH ARCHITECT AND CONSULTANTS CAN TAKE PLACE. THE HIGHLIGHTED PLAN SHOULD BE COMPLETED BY THE GENERAL CONTRACTOR (IN CONJUNCTION WITH THEIR DEMOLITION SUBCONTRACTOR) AND BE AVAILABLE FOR DISCUSSION AT THE WEEKLY OAC MEETING.

NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.
2. REF 7-EX-01 FOR SLAB DEMO AT EXISTING GRADE BEAM.
3. EXISTING GRADE BEAMS FOUND WITHIN DEMO SLAB AREA SHALL NOT BE DEMOLISHED OR CORED UNLESS NOTED OTHERWISE IN STRUCTURAL FOUNDATION PLAN.



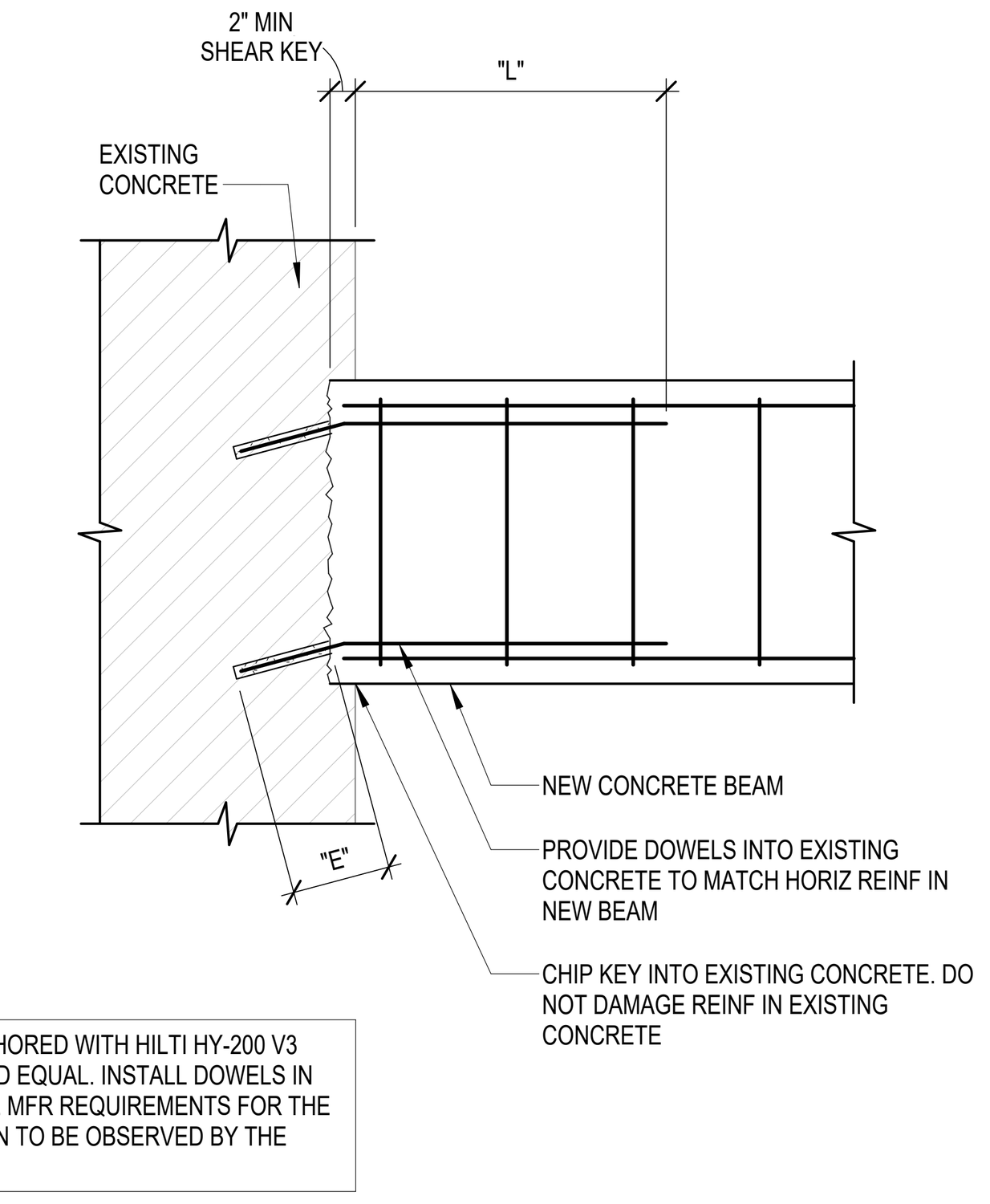
1 TYPICAL FLOOR TRENCH DRAIN AT EXISTING SOG
3/4" = 1'-0"

NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.



2 TYPICAL INFILL AT EXIST. FLOOR RECESS
3/4" = 1'-0"

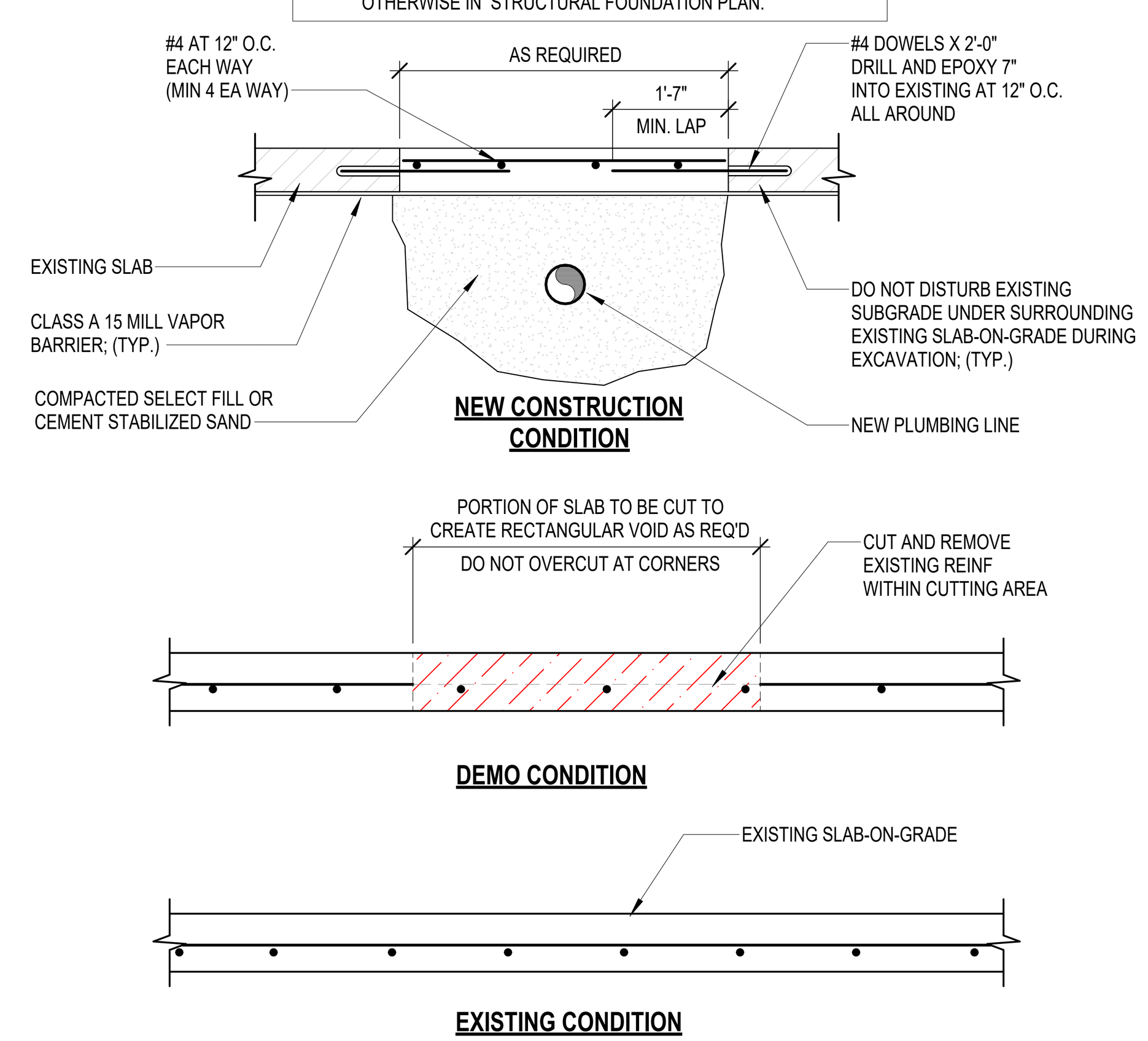
BAR SIZE	E	L
#3	7"	2'-0"
#4	8"	2'-0"
#5	10"	2'-7"
#6	14"	3'-1"
#7	15"	4'-6"
#8	16"	5'-2"
#9	18"	5'-10"
#10	20"	6'-8"
#11	22"	7'-4"



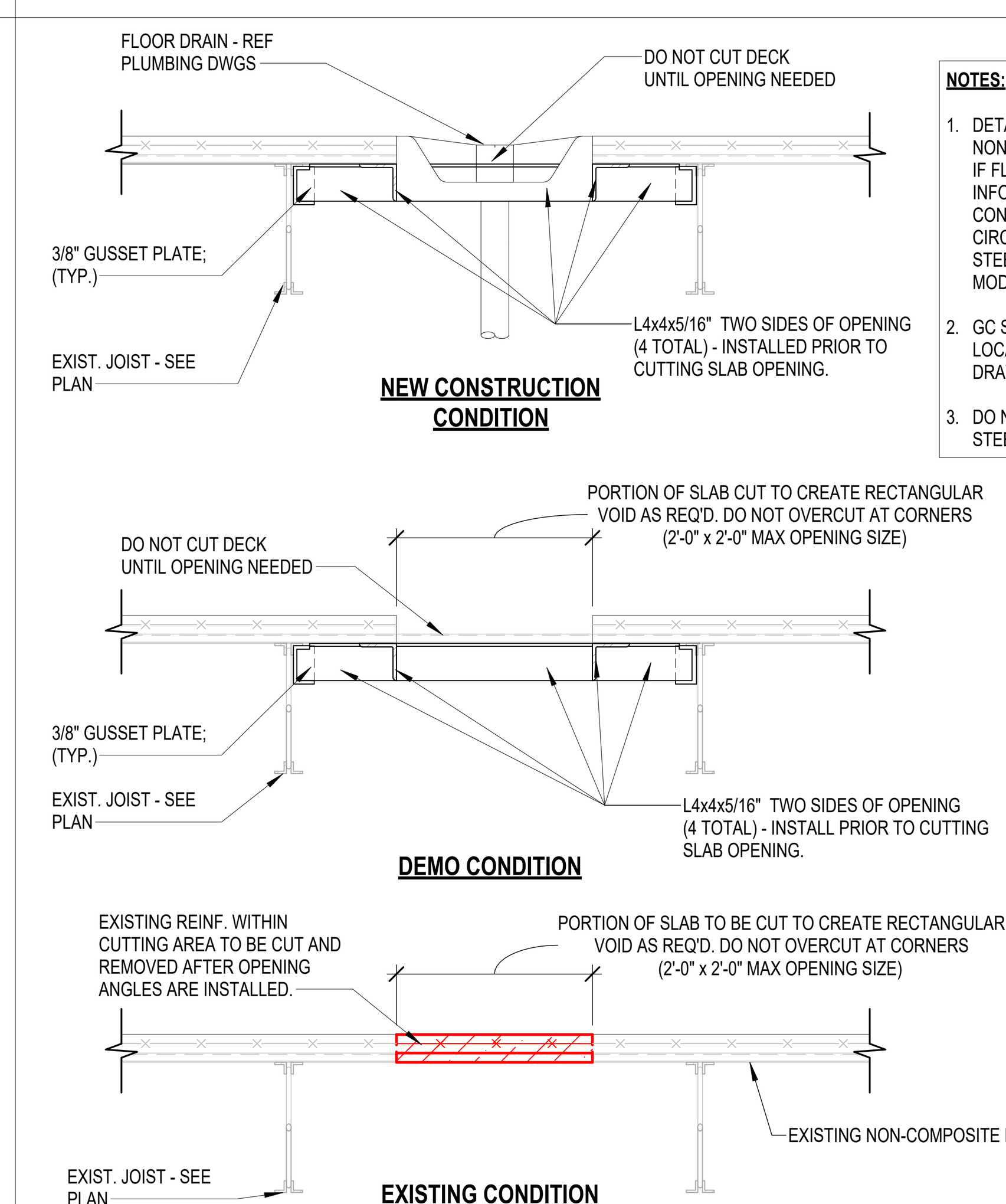
DOWELS SHALL BE ANCHORED WITH HILTI HY-200 V3 ADHESIVE OR APPROVED EQUAL. INSTALL DOWELS IN ACCORDANCE WITH THE MFR REQUIREMENTS FOR THE PRODUCT. INSTALLATION TO BE OBSERVED BY THE OWNERS TESTING LAB

3 CONCRETE BEAM CONNECTION TO EXISTING CONCRETE
3/4" = 1'-0"

NOTE:
1. GC SHALL COORDINATE ALL LOCATIONS WITH PLUMBING DRAWINGS, INCLUDING LOCATIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
2. REF 7/EX-01 FOR SLAB DEMO AT EXISTING GRADE BEAM.
3. EXISTING GRADE BEAMS FOUND WITHIN DEMO SLAB AREA SHALL NOT BE DEMOLISHED OR CORED UNLESS NOTED OTHERWISE IN STRUCTURAL FOUNDATION PLAN.



5 TYP. NEW PLUMBING TRENCH IN EXISTING SLAB-ON-GRADE
3/4" = 1'-0"

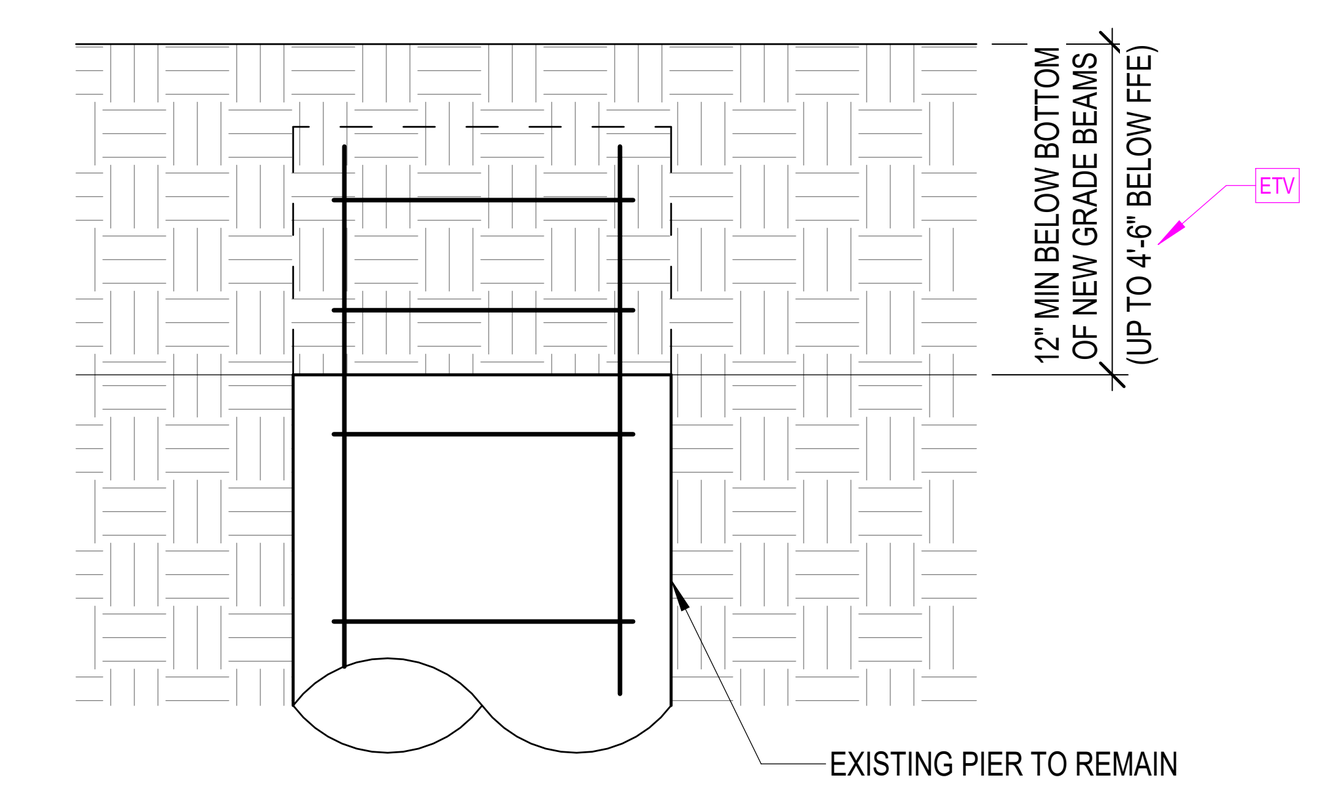


NOTES:
1. DETAILS SHOWN HERE ARE FOR NON-COMPOSITE STEEL FLOORS. IF FLOOR IS COMPOSITE PLEASE INFORM E.O.R. TO REVIEW THE CONDITION. UNDER NO CIRCUMSTANCES SHALL ANY STEEL STRUCTURE BE CUT OR MODIFIED.
2. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.
3. DO NOT CUT ANY STRUCTURAL STEEL MEMBERS (TYP.)

6 TYPICAL FLOOR DRAIN
3/4" = 1'-0"

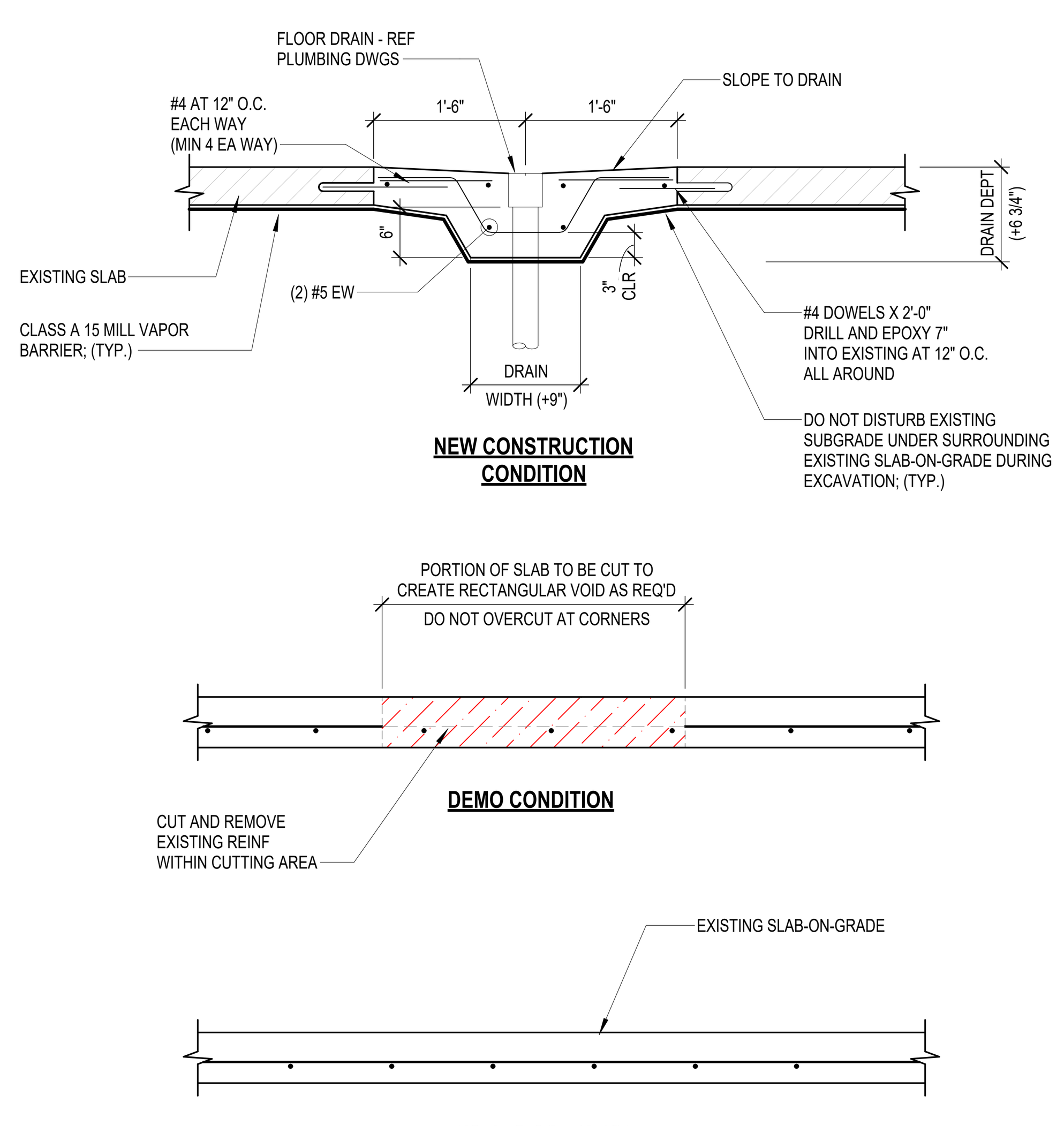
PREPARATION:
1. CHIP EXISTING CONCRETE PIER DOWN TO DEPTH SHOWN.
2. CUT PIER REINFORCEMENT FLUSH W/ TOP PIER.
3. PROVIDE EPOXY GROUT OVER EXPOSED REBAR.
4. BACKFILL/COMPACT OVER PIER AND ABANDON IN PLACE.

NOTE:
1. WHERE EXISTING PIER INTERFERES WITH NEW FOUNDATION/SLAB, CONTRACTOR SHALL REMOVE EXISTING TOP OF PIER TO AN ELEVATION 12 INCHES BELOW FUTURE GRADE BEAMS (UP TO 4'-6" BELOW FFE - REF GRADE BEAM SCHED).
2. IF DRILLED FOOTINGS ARE PLANNED TO BE EXCAVATED AND COMPLETELY REMOVED, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS. COMPLETE REMOVAL OF DRILLED FOOTINGS WILL REQUIRE SIGNIFICANT EARTHWORK ACTIVITIES TO BACKFILL THE RESULTING EXCAVATIONS IN SUCH A MANNER AS TO MAKE THE SITE SUITABLE FOR NEW CONSTRUCTION.

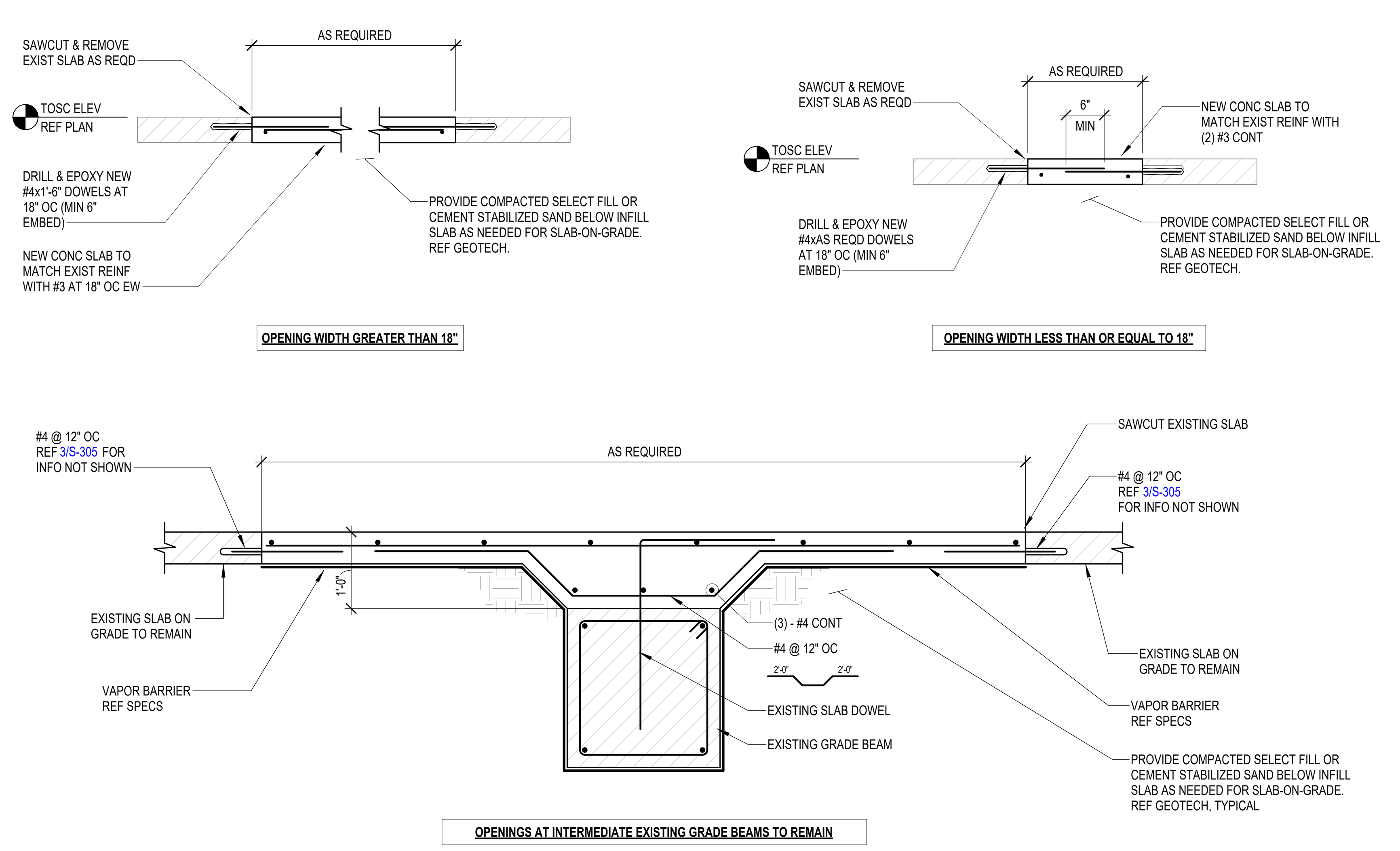


7 TYP. EXIST PIER DEMO DTL (PDC 2 - EXIST. PIER DOES NOT OVERLAP W/ NEW PIER)
3/4" = 1'-0"

NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.
2. REF 7/EX-01 FOR SLAB DEMO AT EXISTING GRADE BEAM.
3. EXISTING GRADE BEAMS FOUND WITHIN DEMO SLAB AREA SHALL NOT BE DEMOLISHED OR CORED UNLESS NOTED OTHERWISE IN STRUCTURAL FOUNDATION PLAN.



8 TYP. FLOOR DRAIN DETAIL AT EXISTING SOG
3/4" = 1'-0"



9 TYPICAL EXISTING SOG INFILL
3/4" = 1'-0"

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Ph: (800)248-3674 www.kubalaengineers.com TX. REG. NO. F-23612

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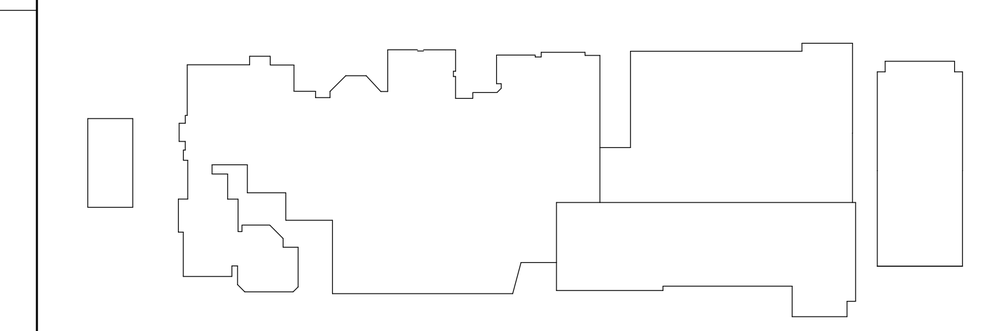
ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS JOHN R. KUBALA 106120 LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers F-23612

CLIENT: Galena Park ISD
DATE: December 5, 2025 | PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

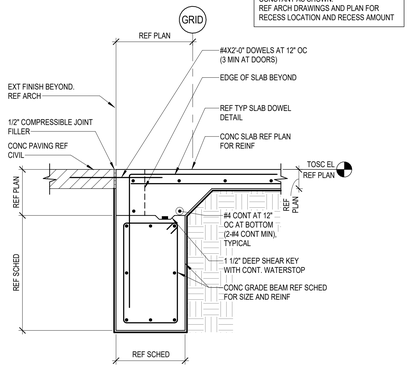
GENERAL EXISTING FOUNDATION NOTES AND TYP DETAILS

S-305

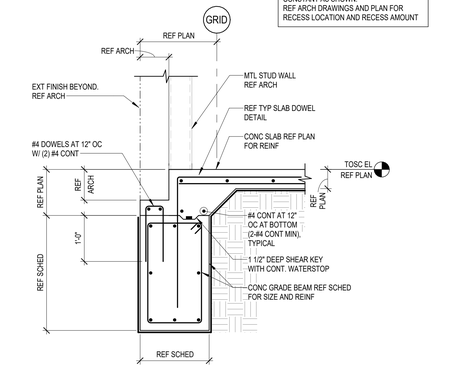
Plot Stamp:
12/5/2025 11:52:11 AM

FOUNDATION DETAILS
S-310
FOR BLUEBEAM LABELING/DOOR:

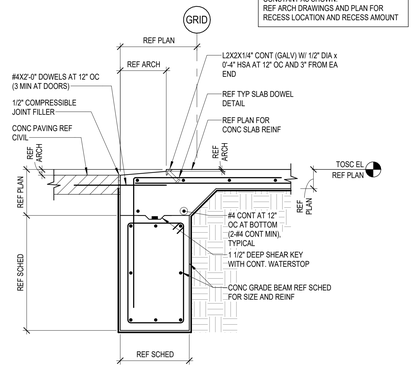
0"
1"



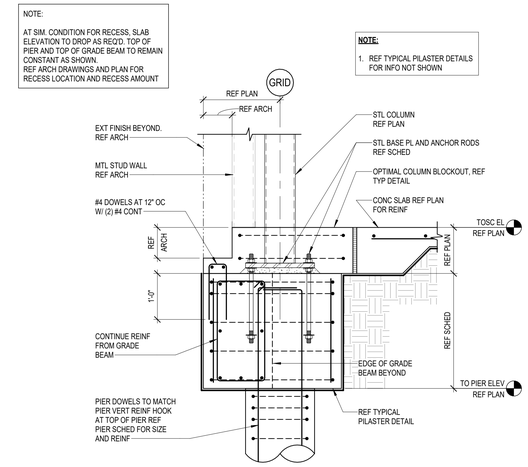
1 EXTERIOR GRADE BEAM AT DOOR
3/4" = 1'-0"



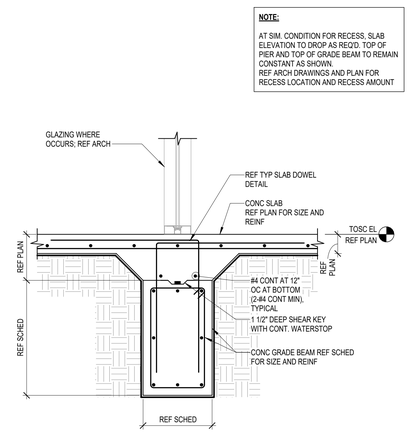
2 EXTERIOR GRADE BEAM AT LEDGE
3/4" = 1'-0"



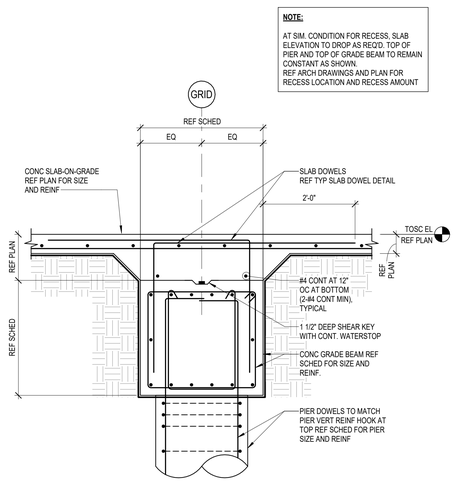
3 EXTERIOR GRADE BEAM AT OVERHEAD DOOR
3/4" = 1'-0"



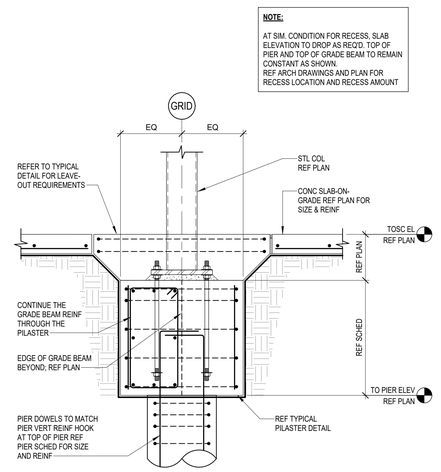
4 EXTERIOR PILASTER AT COLUMN
3/4" = 1'-0"



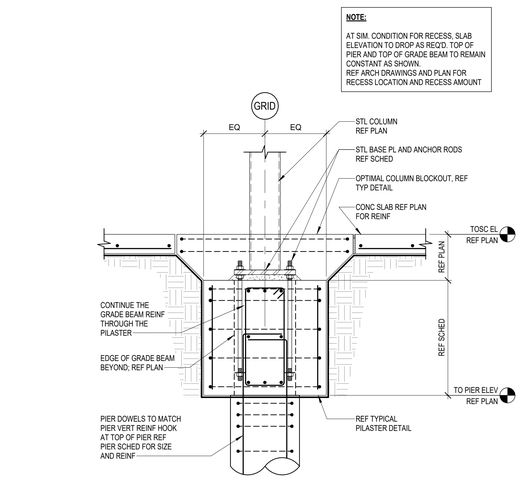
5 INTERIOR GRADE BEAM AT GLAZING
3/4" = 1'-0"



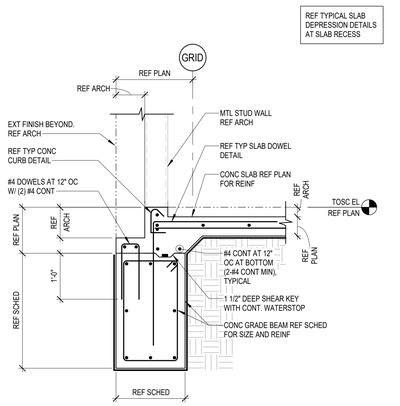
6 INTERIOR GRADE BEAM AT PIER
3/4" = 1'-0"



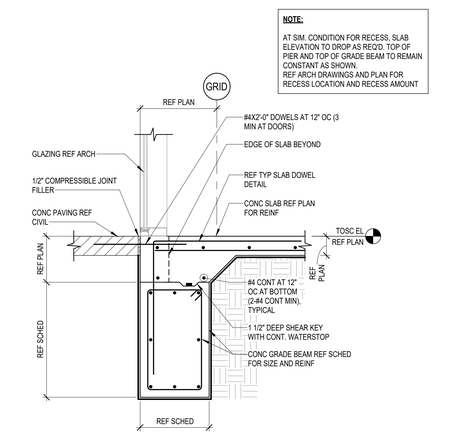
7 INTERIOR COLUMN AT PILASTER
3/4" = 1'-0"



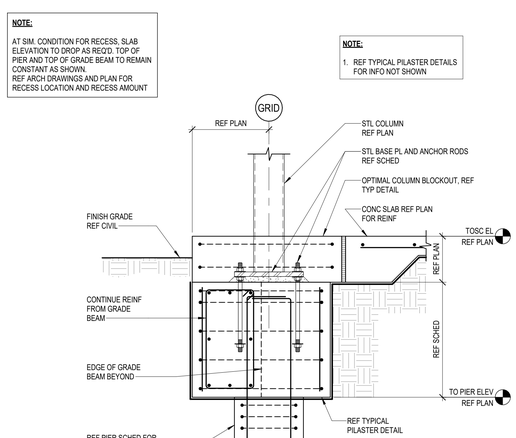
8 INTERIOR COLUMN AT PILASTER
3/4" = 1'-0"



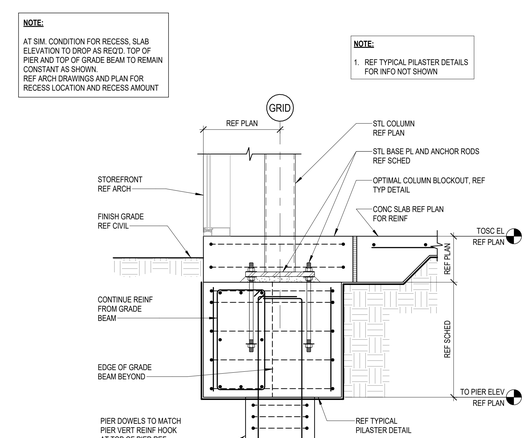
9 EXTERIOR GRADE BEAM
3/4" = 1'-0"



10 EXTERIOR GRADE BEAM AT GLAZING
3/4" = 1'-0"



11 EXTERIOR PILASTER AT COLUMN
3/4" = 1'-0"



12 EXTERIOR COLUMN AT PILASTER W/GLAZING
3/4" = 1'-0"

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12/5/2025 11:52:13 AM

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

Kubala ENGINEERS
Phone: (832) 487-2314
www.kubalaengineers.com
TX: REG. NO. F-23612

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

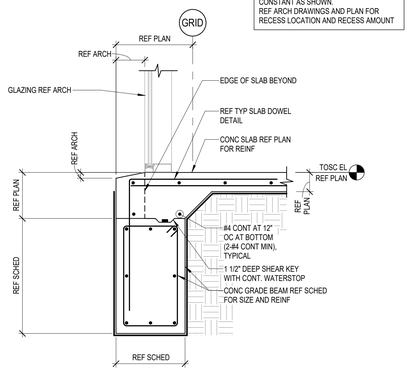
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DETAILS

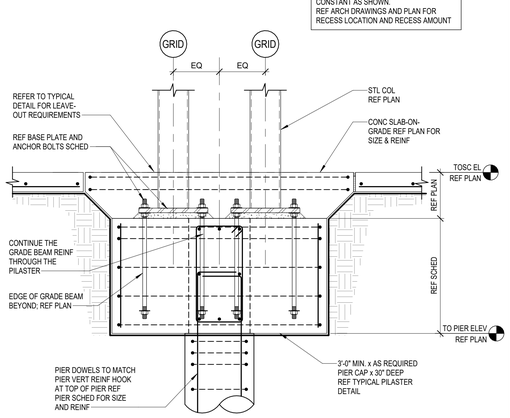
S-310

0"
1"

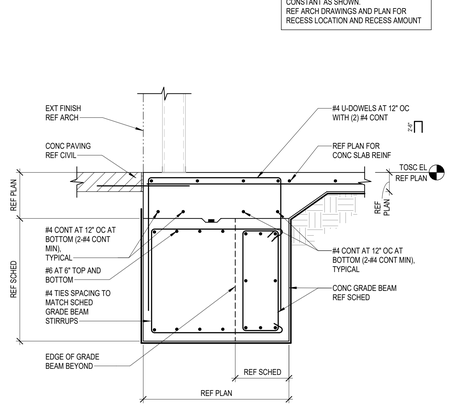
FOUNDATION DETAILS
S-311
FOR BLUEBEAM LABELING/DOOR:



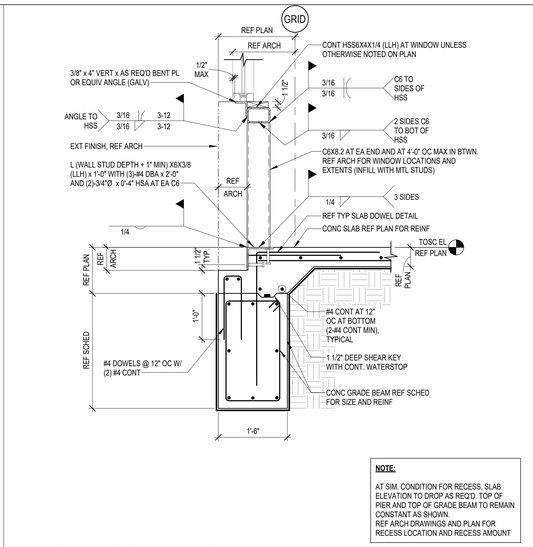
1 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"



2 DOUBLE COLUMNS W/ONE PIER
3/4" = 1'-0"



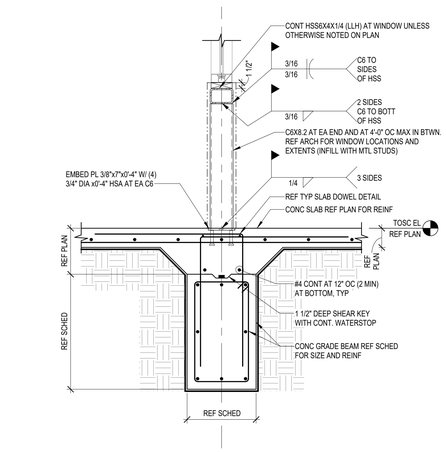
3 EXTERIOR WIDENED GRADE BEAM
3/4" = 1'-0"



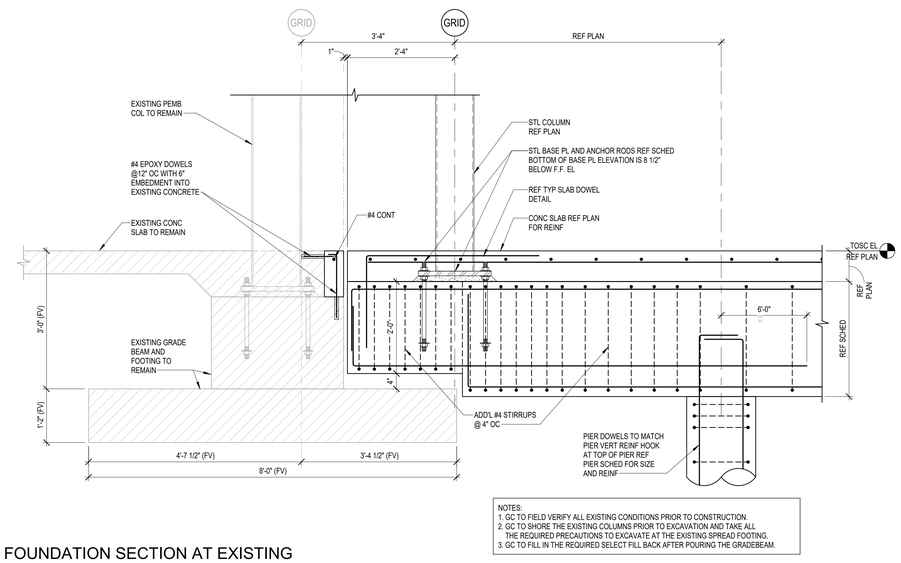
4 FOUNDATION SECTION
3/4" = 1'-0"

5 SECTION AT PLATFORM
3/4" = 1'-0"

7 TYPICAL CONC SLAB-ON-GRADE STOOP AT EXTERIOR DOORS
3/4" = 1'-0"



10 INTERIOR STOREFRONT SUPPORT
3/4" = 1'-0"



9 FOUNDATION SECTION AT EXISTING
3/4" = 1'-0"

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala Engineers
www.kubalaengineers.com
TBPE Firm #20974
TEL 832-651-1260

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

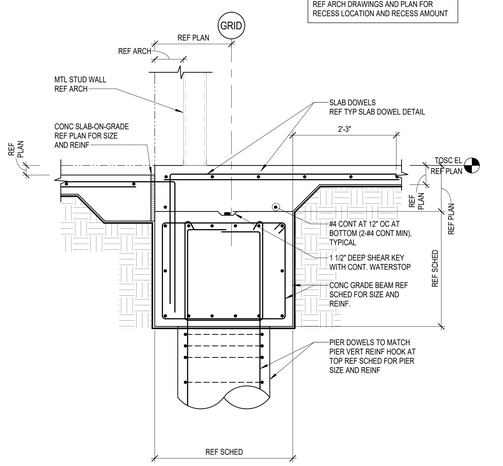
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DETAILS

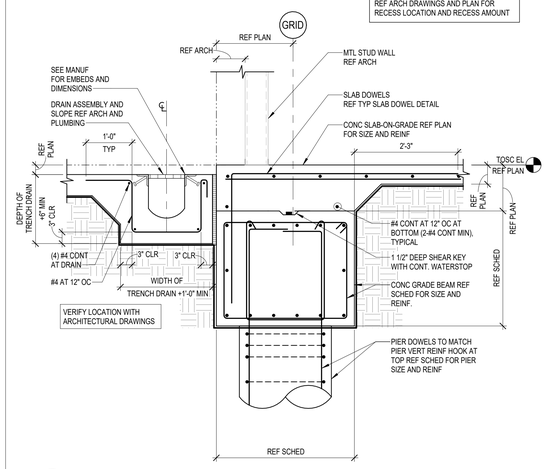
S-311

FOUNDATION DETAILS
S-312
FOR BLUEBEAM LABEL/INDOOR:

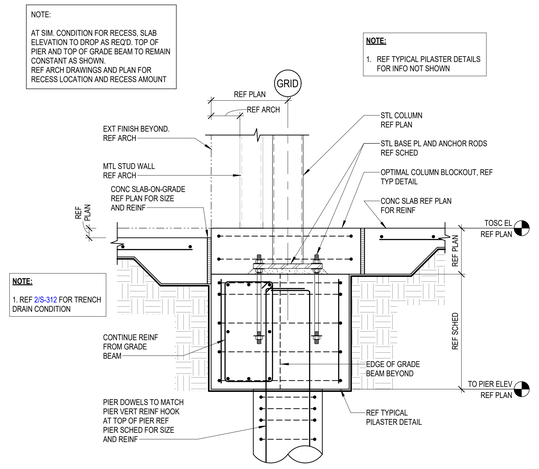
0"
1"



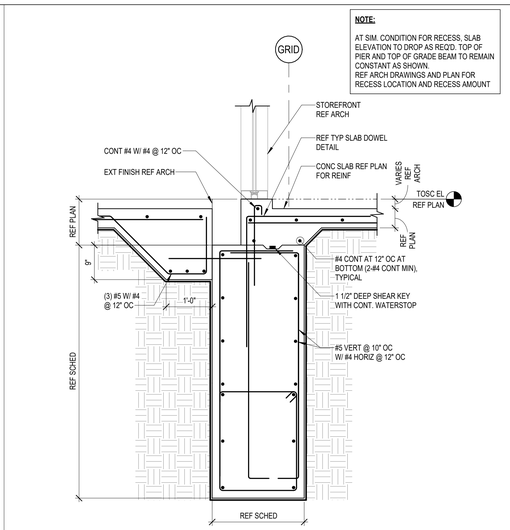
1 INTERIOR GRADE BEAM AT LEDGE
3/4" = 1'-0"



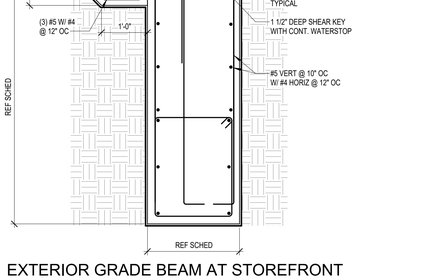
2 INTERIOR GRADE BEAM AT LEDGE
3/4" = 1'-0"



3 INTERIOR PILASTER AT COLUMN AT LEDGE
3/4" = 1'-0"



4 EXTERIOR GRADE BEAM AT STOREFRONT W/ SLAB RECESS
3/4" = 1'-0"



5 EXTERIOR GRADE BEAM AT DEEP LEDGE
3/4" = 1'-0"

6 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"

7 EXTERIOR GRADE BEAM AT STAIR AND RAMP
3/4" = 1'-0"

8 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:52:16 AM

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TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

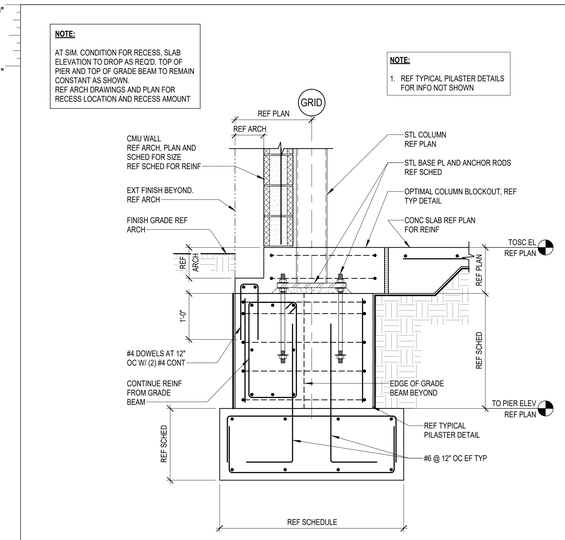
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DETAILS

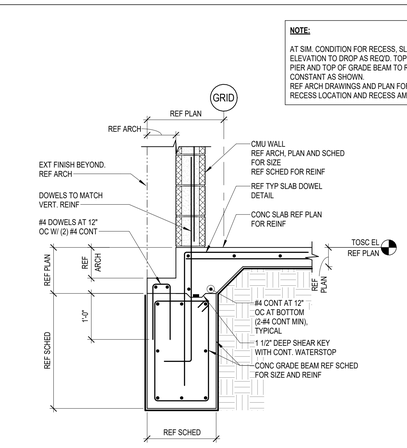
S-312

FOUNDATION DETAILS (CMU)
S-313
FOR BLUEBEAM LABELING/OCR:

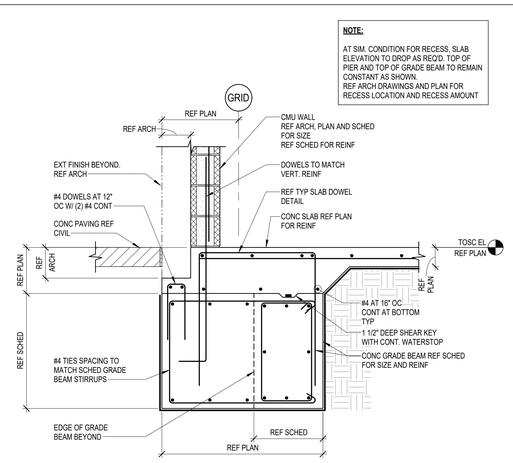
0"
1"



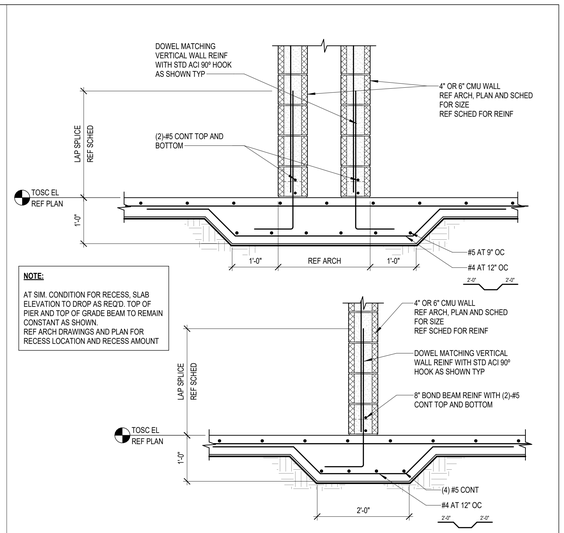
1 EXTERIOR PILASTER AT COLUMN
3/4" = 1'-0"



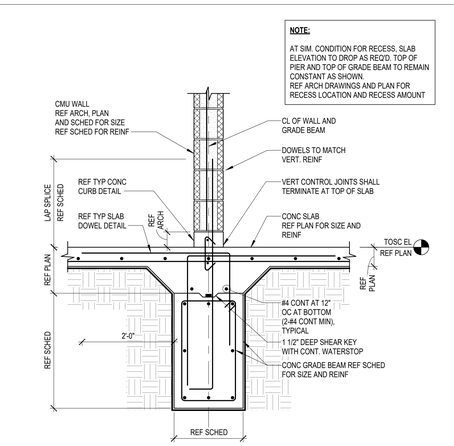
2 EXTERIOR GRADE BEAM AT CMU WALL
3/4" = 1'-0"



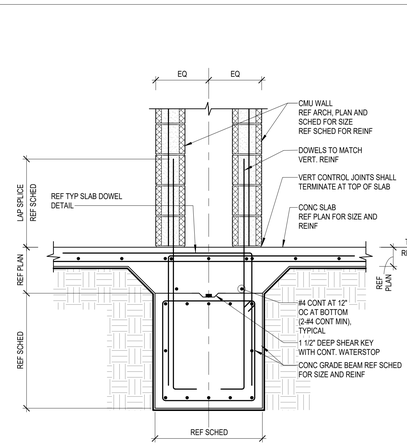
3 EXTERIOR WIDENED GRADE BEAM
3/4" = 1'-0"



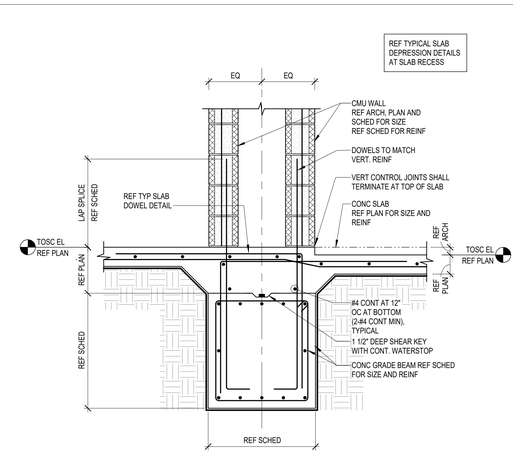
4 TYPICAL INTERIOR CMU ON SLAB-ON-GRADE
3/4" = 1'-0"



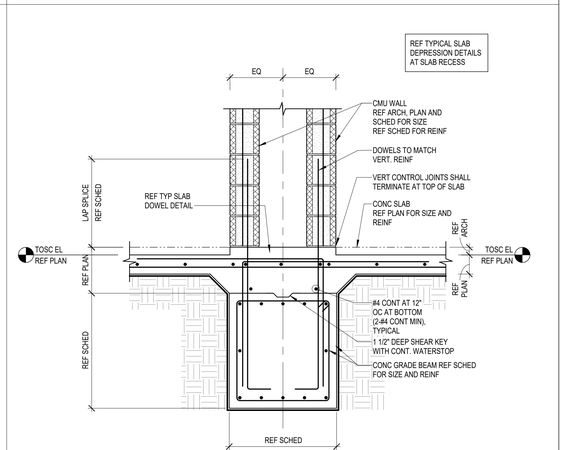
5 EXTERIOR GRADE BEAM AT DOUBLE CMU WALLS
3/4" = 1'-0"



6 EXTERIOR GRADE BEAM
3/4" = 1'-0"



7 INTERIOR CMU WALL AT INTERIOR GRADE BEAM
3/4" = 1'-0"



8 INTERIOR CMU WALL AT INTERIOR GRADE BEAM W/RECESS
3/4" = 1'-0"

9 INTERIOR CMU WALL AT INTERIOR GRADE BEAM W/CONC CURB
3/4" = 1'-0"

10 INTERIOR GRADE BEAM AT DOUBLE CMU WALLS
3/4" = 1'-0"

11 INTERIOR GRADE BEAM AT DOUBLE CMU WALLS W/ RECESS ON ONE SIDE
3/4" = 1'-0"

12 INTERIOR GRADE BEAM AT DOUBLE CMU WALLS W/RECESS ON BOTH SIDES
3/4" = 1'-0"

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ISSUE FOR PROPOSAL

Kubala ENGINEERS
Phone: 832-595-8771
www.kubalaengineers.com
TX REG: No F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

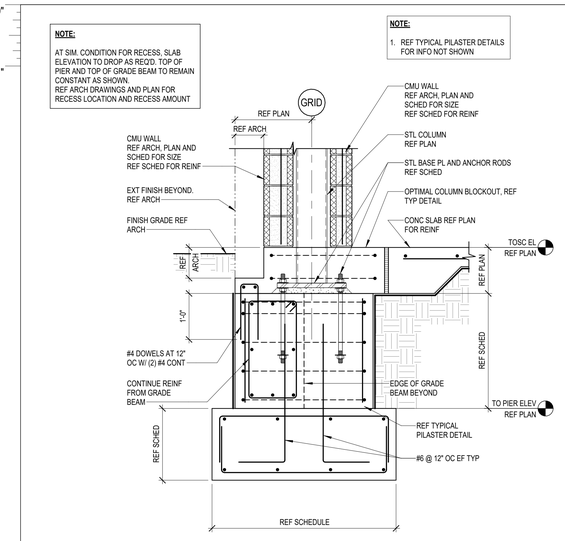
FOUNDATION DETAILS (CMU)

S-313

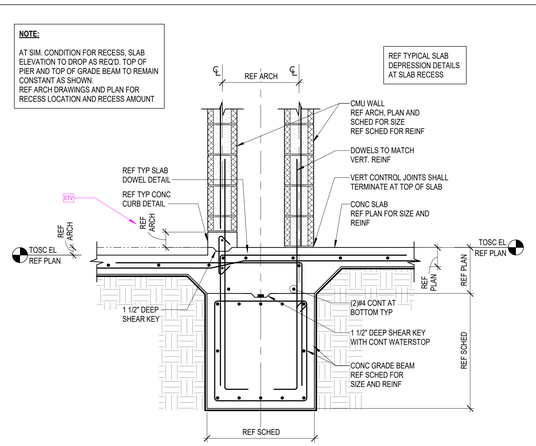
Plot Stamp:
12/5/2025 11:52:18 AM

FOUNDATION DETAILS (CMU)
S-314
FOR BLUEBEAM LABELING/OCR:

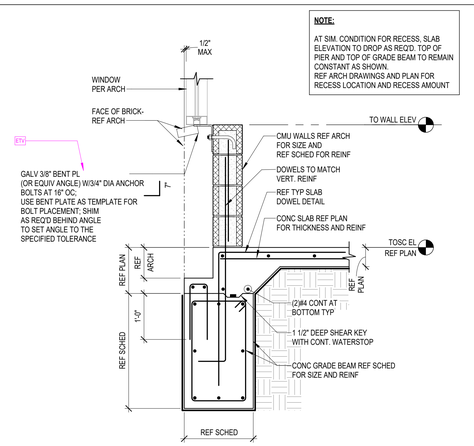
0"
1"



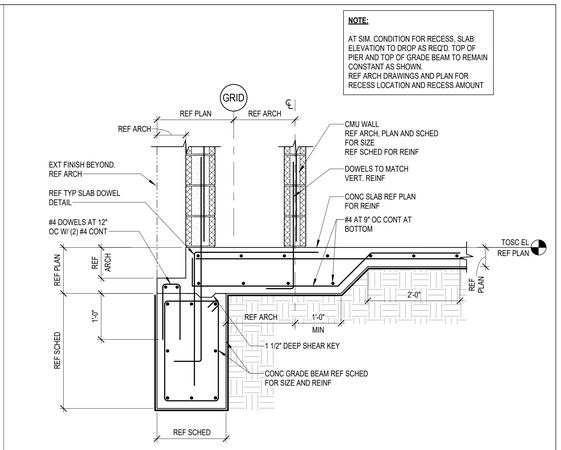
1 EXTERIOR COLUMN AT PILASTER
3/4" = 1'-0"



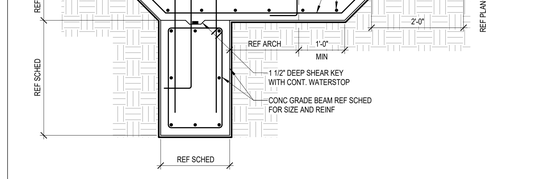
2 INTERIOR DOUBLE CMU WALLS W/ CONC CURB
3/4" = 1'-0"



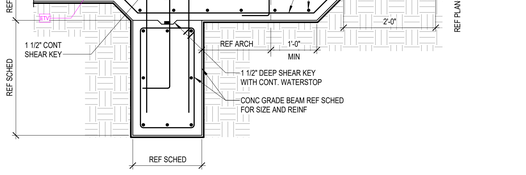
3 CMU AT WINDOW
3/4" = 1'-0"



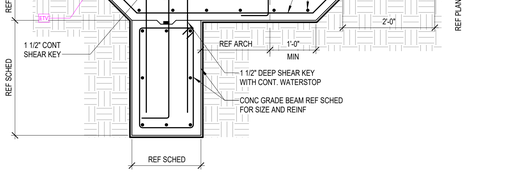
4 EXTERIOR GRADE BEAM AND THICKENED SLAB AT DOUBLE CMU WALLS
3/4" = 1'-0"



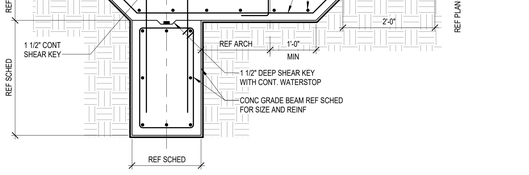
5 INTERIOR GRADE BEAM AND THICKENED SLAB AT DOUBLE CMU WALLS
3/4" = 1'-0"



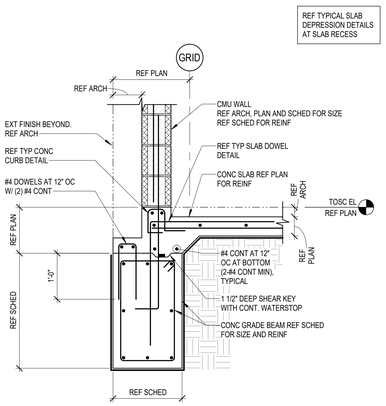
6 INTERIOR GRADE BEAM AND THICKENED SLAB AT DOUBLE CMU WALLS W/ CONC CURB AND RECESS
3/4" = 1'-0"



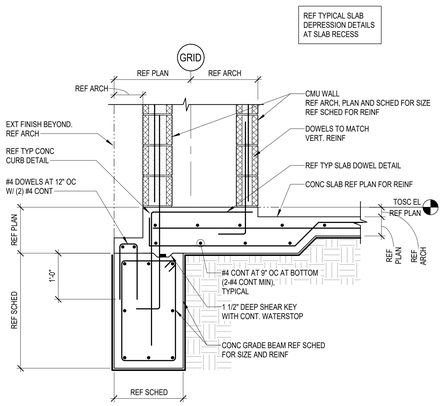
7 INTERIOR GRADE BEAM AND THICKENED SLAB AT DOUBLE CMU WALLS W/ CONC CURB
3/4" = 1'-0"



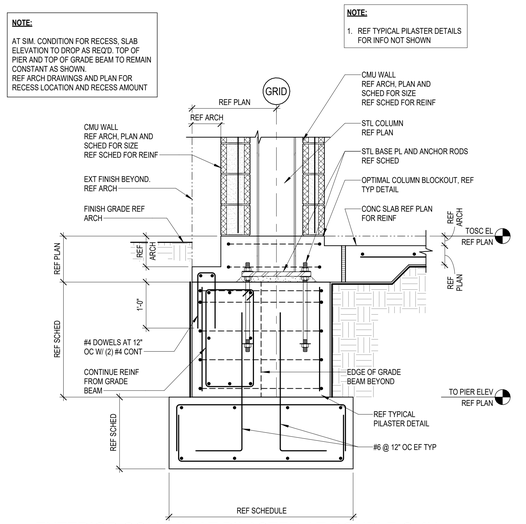
8 INTERIOR GRADE BEAM AND THICKENED SLAB AT CMU WALL W/ CONC CURB
3/4" = 1'-0"



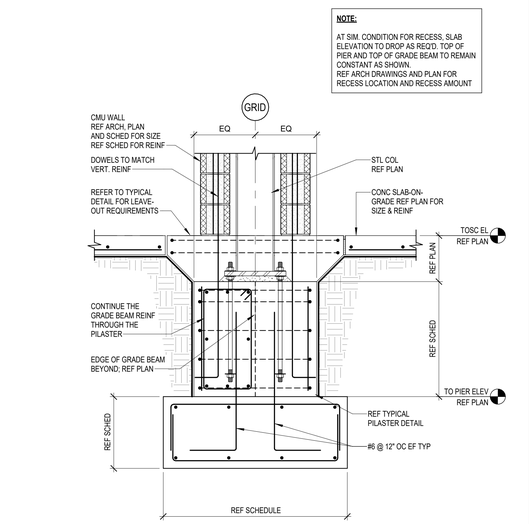
9 EXTERIOR GRADE BEAM AT SLAB DEPRESSION
3/4" = 1'-0"



10 EXTERIOR GRADE BEAM AT SLAB DEPRESSION
3/4" = 1'-0"



11 EXTERIOR COLUMN AT PILASTER AT DOUBLE CMU WITH SLAB DEPRESSION
3/4" = 1'-0"



12 INTERIOR COLUMN W/ CMU AT PILASTER
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:52:19 AM

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TBPE FIRM #: F-23612

KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

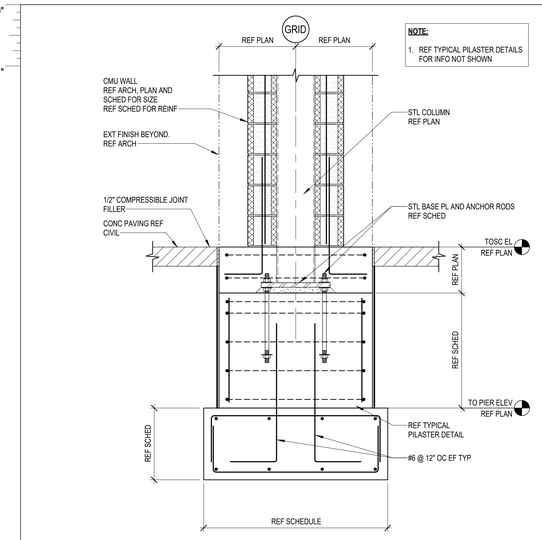
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DETAILS (CMU)

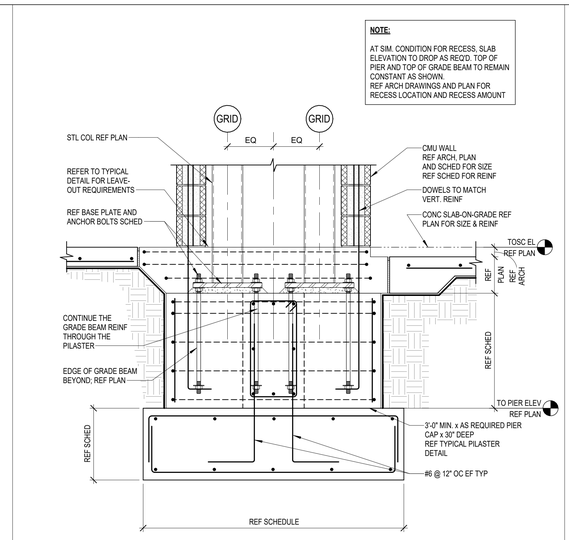
S-314

FOUNDATION DETAILS (CMU)
S-315
FOR BLUEBEAM LABELING/OCR:

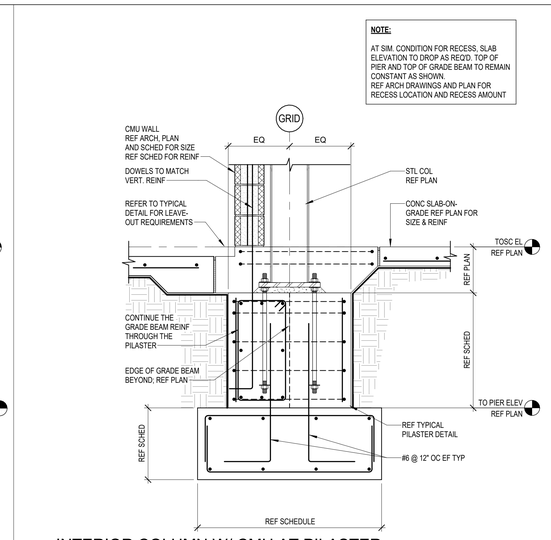
0"
1"



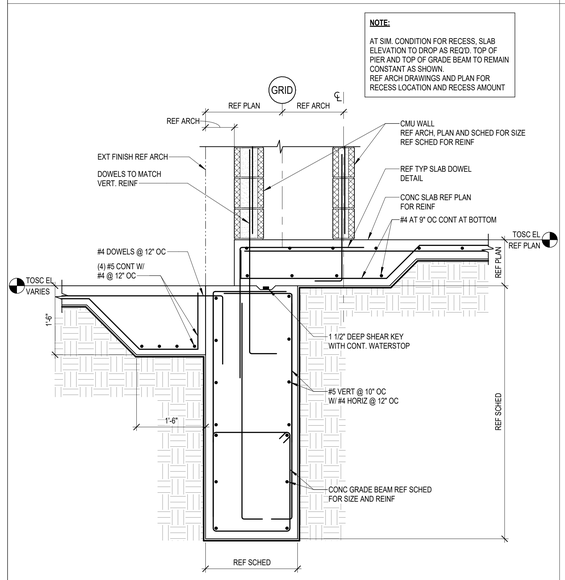
1 EXTERIOR COLUMN WITH CMU
3/4" = 1'-0"



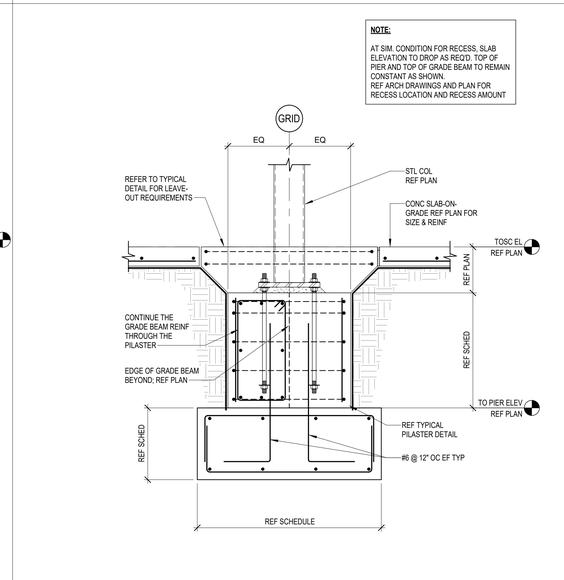
2 DOUBLE COLUMNS W/ CMU AND SLAB DEPRESSION
3/4" = 1'-0"



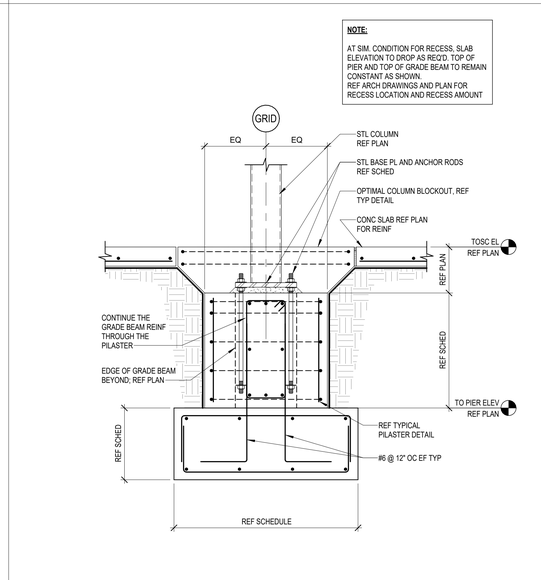
3 INTERIOR COLUMN W/ CMU AT PILASTER AND SLAB DEPRESSION
3/4" = 1'-0"



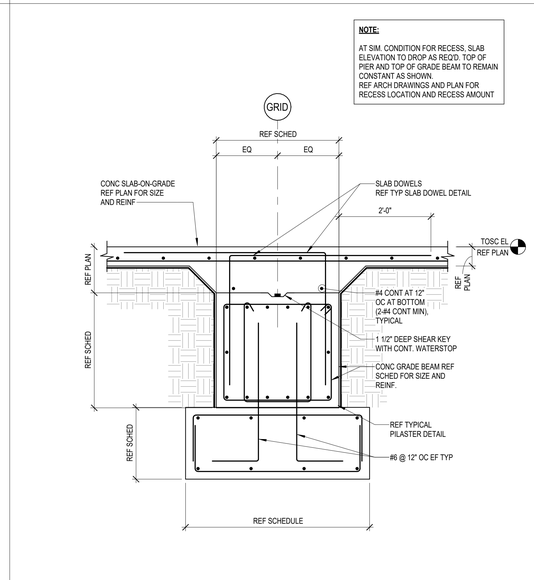
5 EXTERIOR GRADE BEAM AT DEEP LEDGE W/ DOUBLE CMU
3/4" = 1'-0"



6 INTERIOR COLUMN AT PILASTER W/ FOOTING
3/4" = 1'-0"



7 INTERIOR COLUMN AT PILASTER W/ FOOTING
3/4" = 1'-0"



8 INTERIOR GRADE BEAM AT FOOTING
3/4" = 1'-0"

Plot Stamp:
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TEL 832.667.1200

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STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539
DRAWING HISTORY

No.	Description	Date

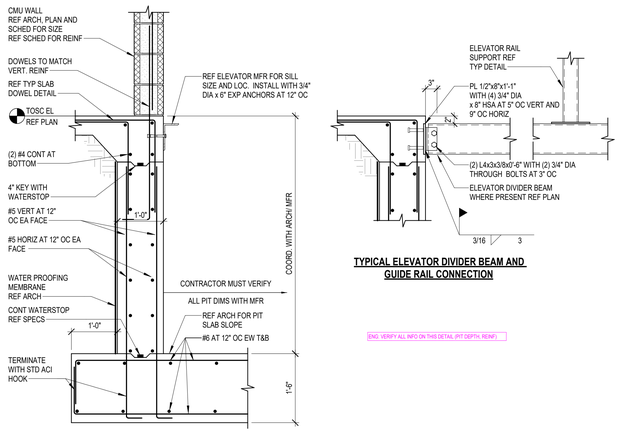
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DETAILS (CMU)

S-315

ELEVATOR PIT DETAILS
S-316
FOR BLUEBEAM LABELING/DOOR:

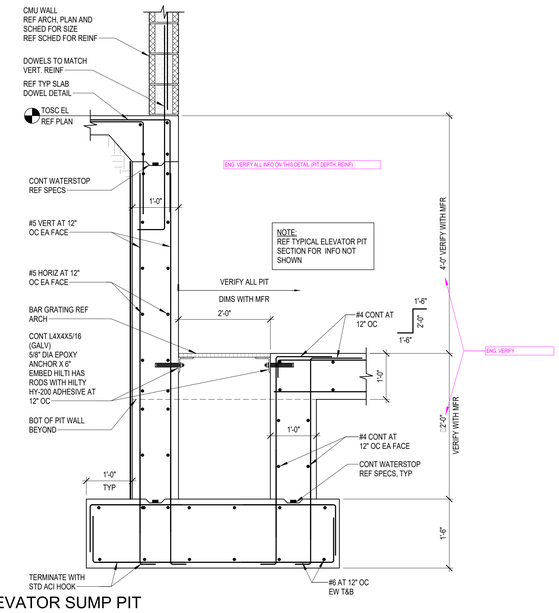
0"
1"



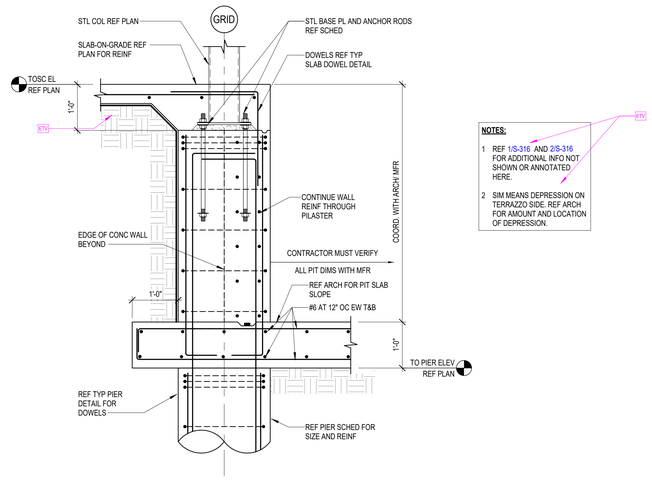
TYPICAL ELEVATOR DIVIDER BEAM AND GUIDE RAIL CONNECTION

ENG. VERIFY ALL INFO ON THIS DETAIL (PIT DEPTH, REINF)

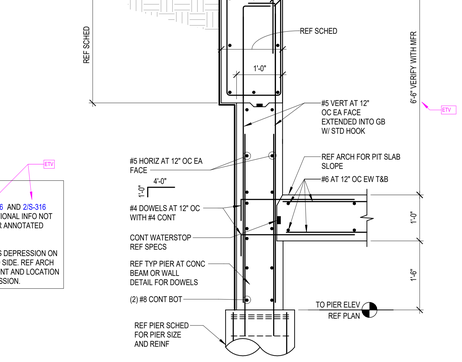
1 ELEVATOR PIT
3/4" = 1'-0"



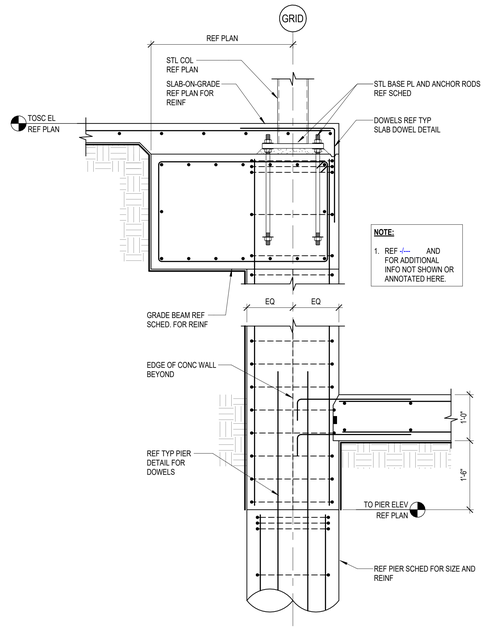
2 ELEVATOR SUMP PIT
3/4" = 1'-0"



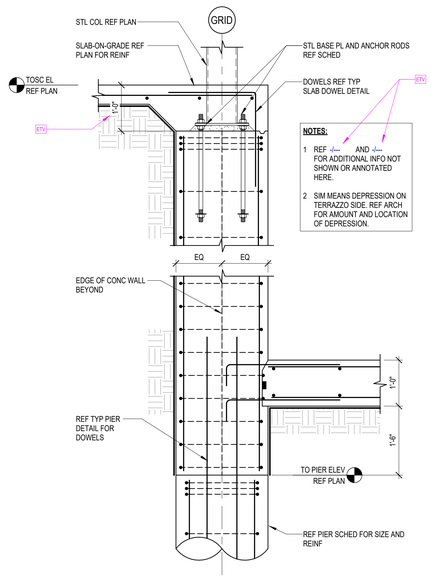
3 ELEVATOR PIT AT COLUMN
NO SCALE



5 ELEVATOR PIT AT GRADE BEAM
NO SCALE



6 ELEVATOR PIT AT GRADE BEAM AND COLUMN
NO SCALE



7 ELEVATOR PIT AT COLUMN
NO SCALE

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106120
REGISTERED
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12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

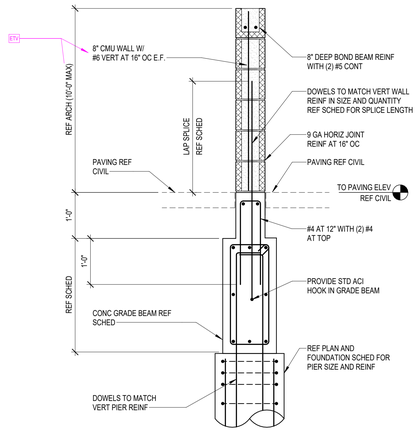
ELEVATOR PIT DETAILS

S-316

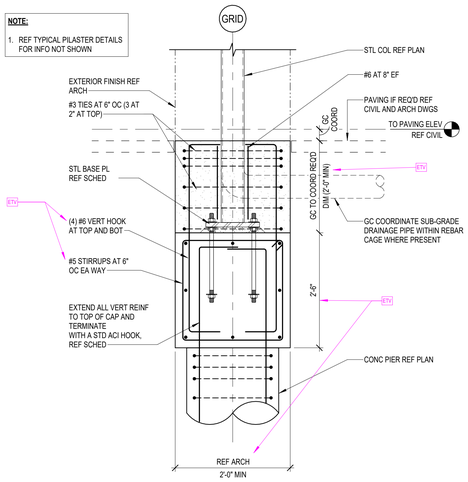
Plot Stamp:
12/5/2025 11:52:22 AM

0"
1"

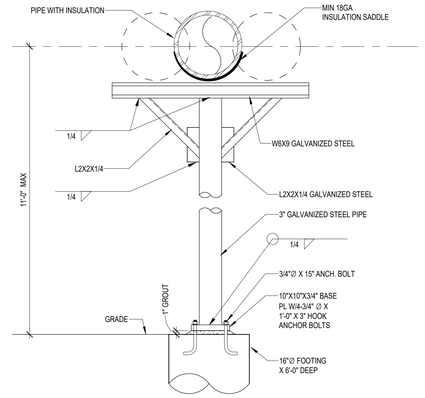
SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-320
FOR BLUEBEAM LABELING/DOOR:



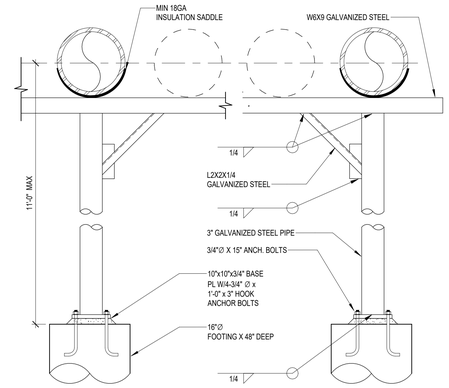
1 SCREEN WALL AT MECH YARD
3/4" = 1'-0"



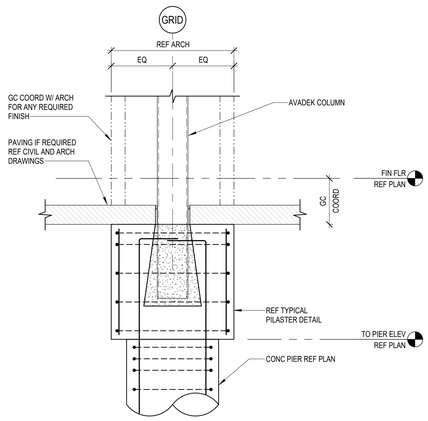
2 EXTERIOR COLUMN DETAIL
3/4" = 1'-0"

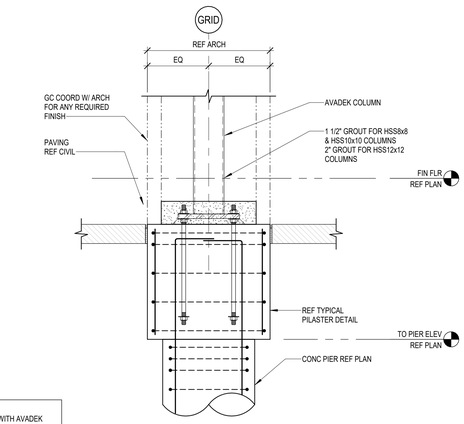


3 SINGLE COLUMN PIPE STANCHION DETAIL
NO SCALE



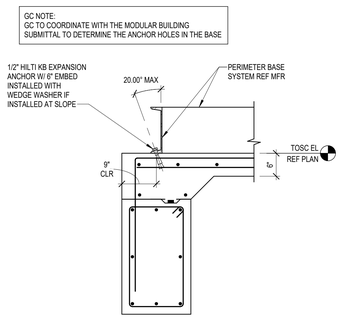
4 DOUBLE PIPE STANCHION PIPE SUPPORT DETAIL
NO SCALE





NOTE:
GC SHALL COORDINATE WITH AVADEK FOR REQUIRED COLUMN BASE CONDITION (TYP)

5 TYP AVADEK CANOPY COLUMN DETAIL
3/4" = 1'-0"



6 ANCHORING AT CENTRAL PLANT
3/4" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

Kubala ENGINEERS
PH: (832) 659-4771
www.kubalaengineers.com
TX REG: No F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

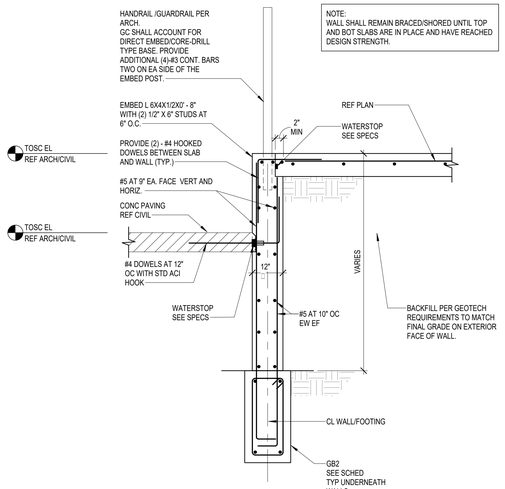
SITE ITEMS FOUNDATION SECTIONS AND DETAILS

S-320

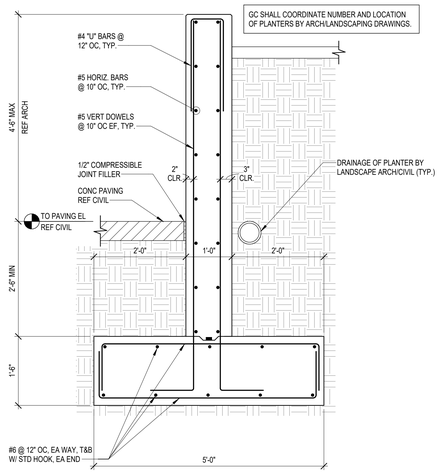
Plot Stamp:
12/5/2025 11:52:23 AM

SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-321
FOR BLUEBEAM LABELING/DOOR:

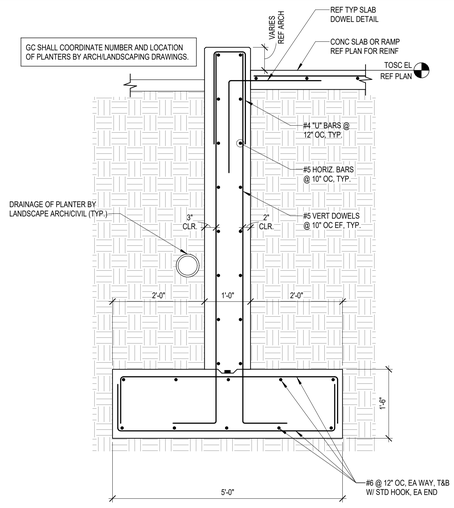
0"
1"



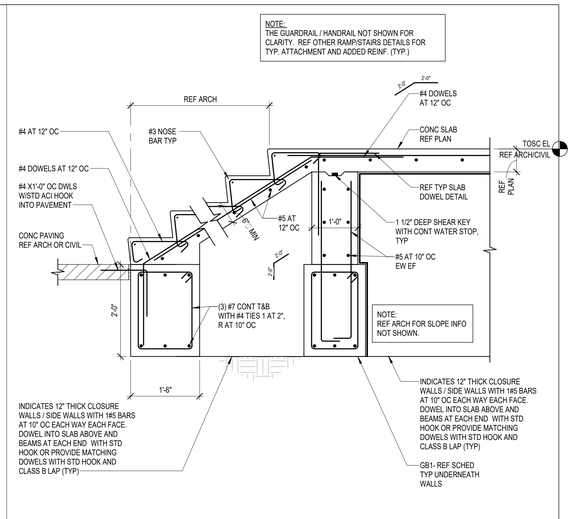
1 CONCRETE WALL
3/4" = 1'-0"



2 SECTION AT PLANTER WALL
3/4" = 1'-0"



3 SECTION AT PLANTER WALL AND SLAB/RAMP
3/4" = 1'-0"



4 CONCRETE STAIR DETAIL
3/4" = 1'-0"

5 RAMP AT PIER
3/4" = 1'-0"

6 CONCRETE RAMP DETAIL
3/4" = 1'-0"

7 CONCRETE RAMP DETAIL
3/4" = 1'-0"

8 CONCRETE STAIR DETAIL
3/4" = 1'-0"

9 RAMP DETAIL
3/8" = 1'-0"

Plot Stamp:
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TX: HC-01 NO.T-12612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

SITE ITEMS FOUNDATION SECTIONS AND DETAILS

S-321

GENERAL CMU NOTES AND TYP DETAILS
S-400
FOR BLUEBEAM LABELING/OCR:

MASONRY:

1. MASONRY TESTING SHALL CONSIST OF A QUALIFIED TESTING LABORATORY PROVIDING THE FOLLOWING SERVICES:
    A. OBSERVE THE INSTALLATION OF MASONRY UNITS.
    B. VERIFY THE QUANTITY, SIZE AND THE SPACING OF THE REQUIRED REINFORCING THAT IS SHOWN ON THE DRAWINGS.
    C. INSPECT THE GROUT SPACE PRIOR TO THE CLOSING OF CLEANOUTS AND ALL GROUTING OPERATIONS. VERIFY THAT THE SPECIFIED CELLS ARE FULLY GROUTED AS NOTED.
    D. MONITOR THE PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT. PROVIDE 28 DAY COMPRESSIVE STRENGTH TESTS ON EACH GROUT MIX IN ACCORDANCE WITH ASTM C1019. PROVIDE COMPRESSION TESTS ON MASONRY PRISMS FOR EACH TYPE OF WALL CONSTRUCTION, IN ACCORDANCE WITH ASTM C1314. CONTRACTOR SHALL PREPARE ONE SET FOR TESTING AT 28 DAYS. TESTS ARE TO BE CONDUCTED FOR EACH 2000 SQUARE FEET OF WALL INSTALLED, BUT NOT LESS THAN TWO TESTS.

MASONRY NOTES:

MATERIALS:

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL SHALL CONFORM TO ASTM C90, TYPE 1, GRADE N, AND THE QUALITY CONTROL STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION.
2. ALL CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT (105 TO LESS THAN 125 PCF, OVEN DRY UNIT DENSITY).
3. ALL MASONRY UNITS SHALL HAVE A MAXIMUM LINEAR SHRINKAGE OF .06 OF 1% FROM THE SATURATED TO THE OVEN DRY CONDITION, WHEN TESTED WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION.
4. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN 28 DAYS WHEN PLACED IN THE STRUCTURE.

COMPRESSIVE STRENGTHS:

1. THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (f'm) SHALL BE 2000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD.
2. ALL MASONRY UNITS SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 2500 PSI AND A MINIMUM NET TENSILE STRENGTH OF 125 PSI, WHEN TESTED IN ACCORDANCE WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION.

MORTAR:

1. UNLESS NOTED OTHERWISE, MORTAR SHALL CONFORM TO ASTM C270, TYPE 'S'. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE RATIO OF 1 PART PORTLAND CEMENT, 1/4 PART MINIMUM TO 1/2 PART MAXIMUM LIME PUTTY OR HYDRATED LIME, DAMP LOOSE SAND NOT LESS THAN 2-1/4 AND NOT MORE THAN 3 TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME USED.

GROUT:

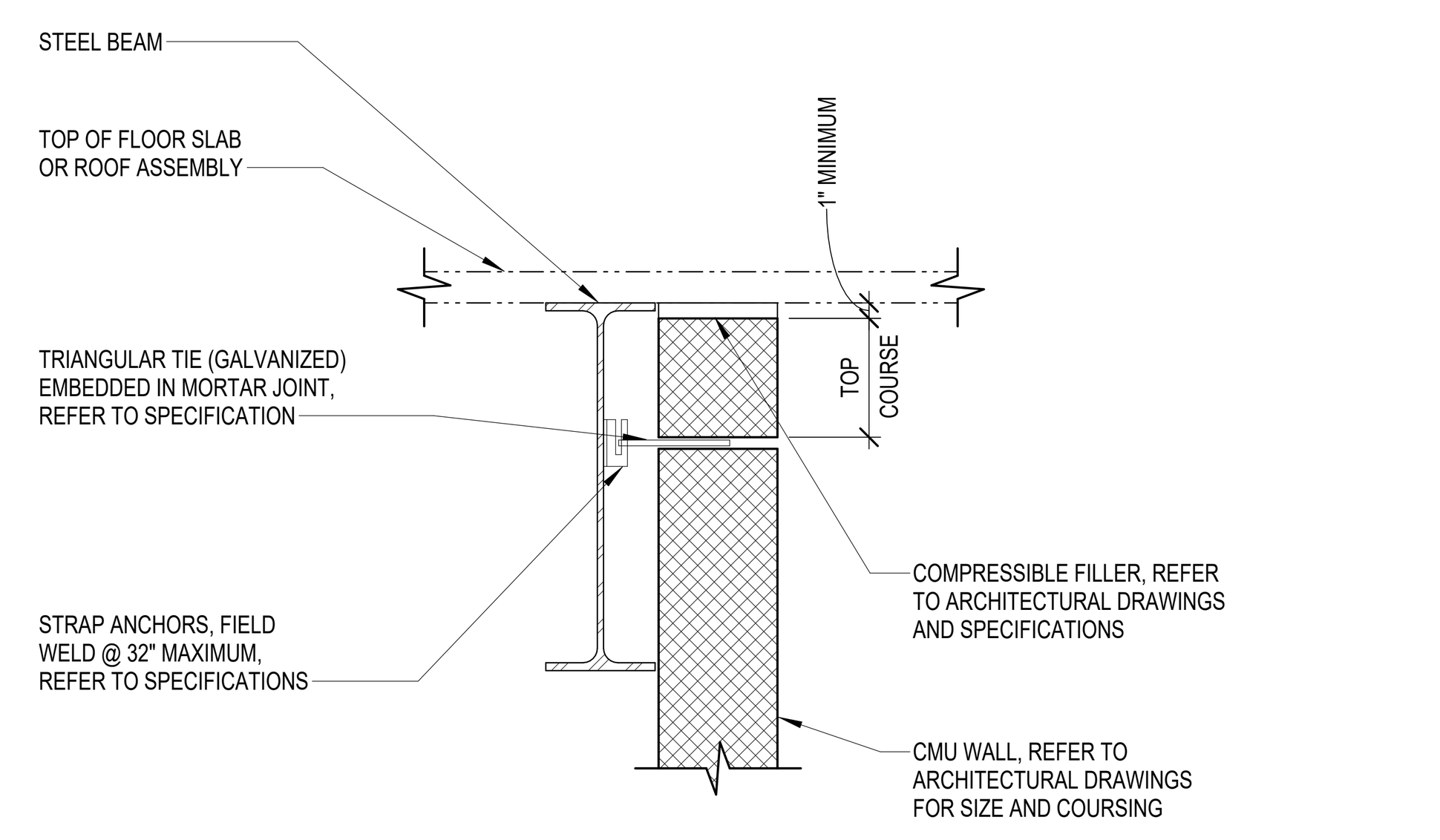
1. GROUT FOR POURING SHALL BE OF FLUID CONSISTENCY AND MIXED IN THE RATIO BY VOLUMES, 1 PART PORTLAND CEMENT, 2 1/4 PARTS MINIMUM TO 3 PARTS MAXIMUM DAMP LOOSE SAND, 1 PART MINIMUM TO 2 PARTS MAXIMUM PEA GRAVEL, AND 0 TO 1/10 PART MAXIMUM HYDRATED LIME. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI, WHEN TESTED IN ACCORDANCE WITH ASTM C476.
2. GROUT FOR PUMPING SHALL BE OF FLUID CONSISTENCY AND SHALL HAVE NO LESS THAN 7 SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. SUBMIT THE MIX FOR APPROVAL.
3. ALL CELLS WITH REINFORCING BARS SHALL BE GROUTED SOLID.
4. ALL CELLS THAT WILL HAVE DRILLED EXPANSION ANCHORS, EMBEDDED HEADED STUDS OR OTHER EMBEDDED ANCHORS MUST BE GROUTED SOLID.

REINFORCEMENT:

1. PROVIDE HORIZONTAL JOINT REINFORCING (TRUSS OR LADDER TYPE, 9 GAGE) AT 16" OC VERTICALLY AT ALL CMU WALLS. PROVIDE PRE-FAB WIRE TIES AT ALL CORNERS AND INTERSECTIONS AT 16" O.C. REINFORCEMENT SHALL CONFORM TO ASTM A82 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI, AND SHALL BE HOT DIPPED GALVANIZED.
2. OPENINGS IN MASONRY WALLS SHALL HAVE EITHER MASONRY OR STEEL LINTELS AS SHOWN ON THE DRAWINGS. ALL HORIZONTAL REINFORCING IN BOND BEAMS AND LINTEL BLOCKSSHALL BE CONTINUOUS, AND GROUTED SOLID. WHEN NO LINTEL IS DETAILED, A MINIMUM OF (2) #4 BARS IN A LINTEL BLOCK SHALL BE INSTALLED. THE BARS SHALL EXTEND A MINIMUM OF EIGHT INCHES BEYOND THE EDGE OF THE OPENING, AND EACH JAMB SHALL BE GROUTED SOLID FOR A DISTANCE OF EIGHT INCHES WITH (2) #5 VERTICAL MINIMUM. STEEL LINTELS SHALL BEAR 8" MINIMUM AT EACH END. PROVIDE VERTICAL CONTROL JOINTS AT THE ENDS OF ANY STEEL LINTEL, UNLESS 15# FELT OR FLASHING IS PROVIDED AT THE TOP AND BOTTOM OF THE LINTEL ANGLE WHERE THE ANGLE BEARS ON BRICK.
3. LINTEL BLOCKS SHALL BE "U" SHAPED UNITS WITH SOLID BOTTOMS AND ARE TO BE USED OVER WINDOW AND DOOR OPENINGS. BOND BEAM BLOCKS SHALL BE OPEN BOTTOM UNITS AND ARE TO BE USED AT THE TOPS OF WALLS AND AT THE MID-HEIGHT, UNLESS THE WALL HEIGHT EXCEEDS 16 FEET, IN WHICH BOND BEAMS SHALL BE PROVIDED 8'-0" ON CENTER VERTICALLY MAXIMUM, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PROVIDE (2) #4 BARS IN A SOLID GROUTED BOND BEAM UNLESS NOTED OTHERWISE. LINTEL BLOCKS SHALL NOT BE USED IN PLACE OF BOND BEAM BLOCKS.
4. ALL MASONRY TIES TO BACKUP STRUCTURE SHALL BE HOT DIP GALVANIZED. UNLESS OTHERWISE NOTED ON THE DRAWINGS, PROVIDE HECKMANN NO. 315 ANCHOR WITH N0. 316 TRIANGULAR TIE ON COLUMNS AT 16" ON CENTER VERTICALLY AND A HECKMANN NO. 357 ANCHOR ON ALL BEAMS AT 16" ON CENTER HORIZONTALLY. MASONRY TIES TO WALL STUDS SHALL BE HECKMANN NO. 316 TRIANGULAR TIE WITH HECKMANN NO. 315-C SCREW ON ANCHOR STRAP SPACED 16" ON CENTER HORIZONTALLY VERTICALLY. AT WALL CORNERS, INTERSECTIONS AND OPENINGS, PROVIDE TWO VERTICAL ROWS OF ANCHORS SPACED 16" APART AND 16" ON CENTER VERTICALLY. TRIANGULAR TIES SHALL EXTEND 3/4" FROM FACE OF MASONRY. ANCHOR STRAPS SHALL BE ATTACHED TO METAL STUDS WITH TWO (2) #10-16x1 1/2" CADMIUM PLATED SHEET METAL SCREWS.
5. AT FREE VERTICAL EDGES OF WALLS, AND AT THE FIRST CELL EACH SIDE OF CONTROL JOINTS, PROVIDE (1) VERTICAL IN GROUT FILLED END CORES. THE VERTICAL REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING UNLESS NOTED OTHERWISE, AND SHALL EXTEND TO THE TOP OF THE WALL.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE A MINIMUM OF #4 VERTICAL BARS AND DOWELS IN FULLY GROUTED CELLS AT 48" O.C.
7. ALL BAR REINFORCING SHALL BE LAPPED AS FOLLOWS:
    · #3 LAP SPLICE LENGTH = 19 INCHES
    · #4 LAP SPLICE LENGTH = 34 INCHES
    · #5 LAP SPLICE LENGTH = 45 INCHES
    · #6 LAP SPLICE LENGTH = 54 INCHES
    · #7 LAP SPLICE LENGTH = 63 INCHES
    · #8 LAP SPLICE LENGTH = 72 INCHES
    · #9 LAP SPLICE LENGTH = 82 INCHES
    · INCREASE LAP SPLICE LENGTHS BY 50% FOR EPOXY COATED REINFORCING

MISCELLANEOUS:

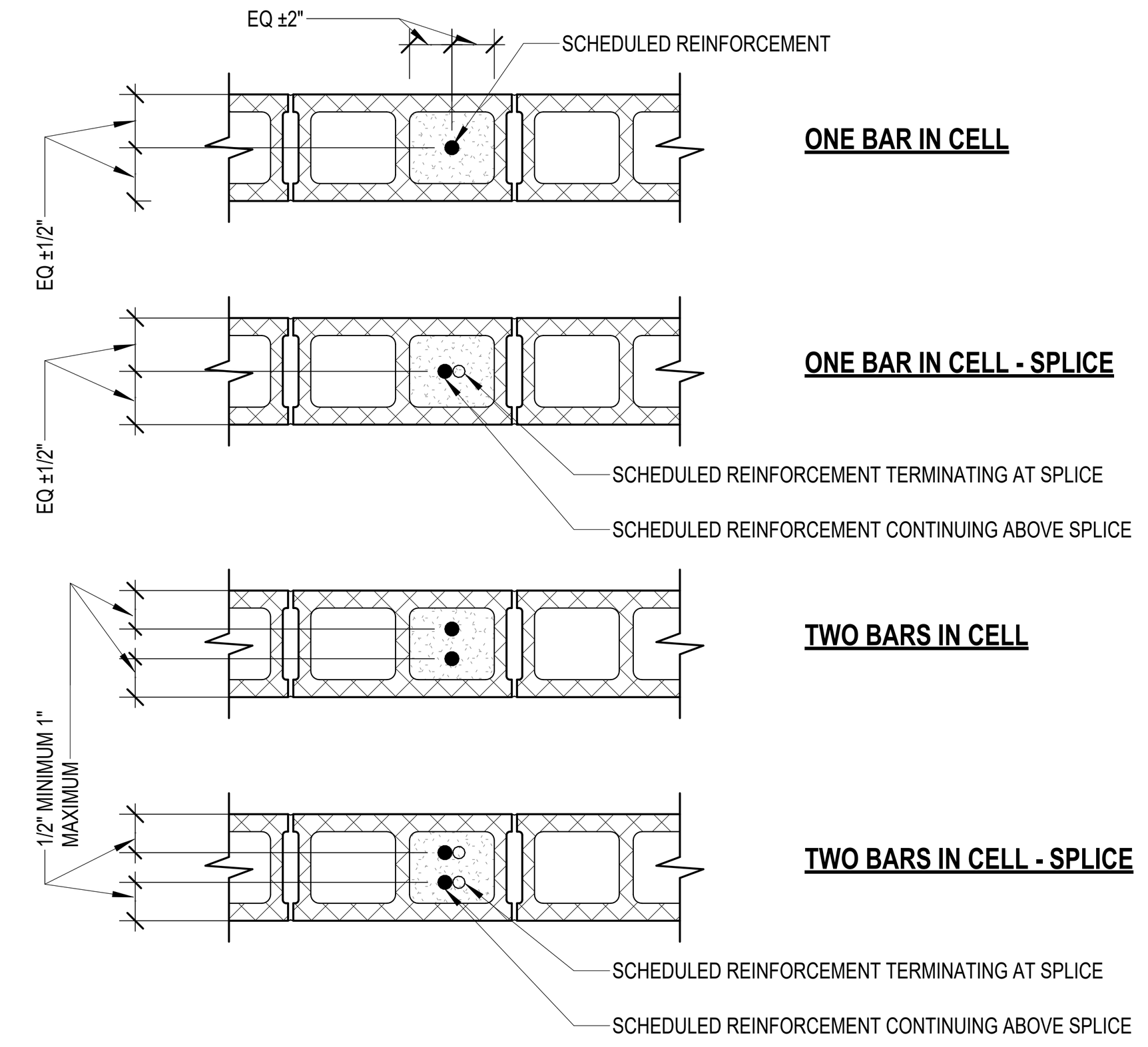
1. ALL MASONRY DESIGN IS BASED ON CHAPTER 21 OF INTERNATIONAL BUILDING CODE, LATEST EDITION AND ACI 530, LATEST EDITION.
2. SEE TYPICAL DETAILS FOR INTERIOR WALL BRACING, AND REINFORCING REQUIREMENTS.
3. UNLESS NOTED OTHERWISE PER PLANS, SPECS OR DETAILS, MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS PER NCMA GUIDELINES TEK 10-2C AS FOLLOWS:
    . AT APPROXIMATELY SIXTEEN FEET ON CENTER
    · CORNERS-AT A MAXIMUM DISTANCE NOT TO EXCEED ONE-HALF THE REQUIRED MAXIMUM DISTANCE
    · BETWEEN MAIN AND INTERSECTING WALLS
    · CHANGES IN WALL HEIGHTS
    · ADJACENT TO LINTELS AND THROUGH OPENINGS IF NOT CROSSING VERTICAL REINFORCEMENT
    · AT PILASTERS AND CHANGES IN WALL THICKNESS
    · ALL JOINT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.
4. UNLESS NOTED OTHERWISE PER PLANS, SPECS OR DETAILS, BRICK VENEER CONTROL JOINTS SHALL BE PER BIA GUIDELINES-TECHNICAL NOTE 18A.
    · WITHOUT OPENINGS, SPACE NO MORE THAN 25 FT
    · WITH MULTIPLE OPENINGS, SPACE NO MORE THAN 20 FT
    · AT OR NEAR CORNERS
    · AT OFFSETS AND SETBACKS
    · AT WALL INTERSECTIONS
    · AT CHANGES IN WALL HEIGHTS
    · AT WALL BACKING SYSTEM CHANGES (CMU TO DRYWALL)
    · AT SUPPORT CHANGES (CONCRETE TO STEEL)
    · AT WALL FUNCTION OR CLIMATIC EXPOSURE CHANGES (INTERIOR TO EXTERIOR)
5. GROUT LIFT LIMITS
    · GROUT POURS SHALL NOT EXCEED 5 FEET PER LIFT WHEN GROUTING THE CELLS OF REINFORCED CMU, UNLESS CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF EACH 5 FOOT SECTION.
    · GROUT POURS SHALL NOT EXCEED 24 FEET WHEN GROUTING THE CELLS OF HOLLOW CMU. WHEN GROUTING THE SPACE BETWEEN MULTI-WYTHE WALLS, THE TOTAL POUR SHALL NOT EXCEED 24 FEET FOR 3" SPACES, 12 FEET FOR 2 1/2" SPACES, AND 5 FEET FOR 2" SPACES.
    · MECHANICALLY VIBRATE ALL LIFTS IN EXCESS OF 1 FOOT.
    · ALL GROUT MUST BE PLACED WITHIN 1 1/2 HOURS FROM INTRODUCING WATER INTO THE MIXTURE.
    · GROUT LIFTS SHALL NOT BE STOPPED WITHIN 1 1/2" OF BED JOINT.
    · ALL CMU WALLS LOCATED ADJACENT TO EARTH FILL MUST BE FULLY GROUTED DIRECTLY ADJACENT TO, AND AT EAST 8" ABOVE, ALL SOIL IN CONTACT WITH THE WALL.



NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS. USE OF THIS DETAIL IS LIMITED TO WALL HEIGHTS UP TO 36 TIMES THE NOMINAL WALL THICKNESS.

1 TYPICAL INTERIOR NON-BEARING CMU WALL SIDE CONNECTION
NO SCALE



NOTES:

1. REINFORCEMENT MUST BE PLACED USING REINFORCING BAR POSITIONERS THAT LOCATE THE BAR AS SPECIFIED AND PREVENT MOVEMENT OF THE BAR DURING CONSTRUCTION.
2. SPLICED REINFORCEMENT MUST BE A CONTACT LAP SPLICE WITH SPLICED BARS ALIGNED PARALLEL TO THE WALL AS SHOWN.
3. THE ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF REINFORCEMENT THAT IS REQUIRED TO BE PLACED OUTSIDE OF THE TOLERANCES OF THIS DETAIL SUCH AS TO AVOID INTERFERENCE WITH OTHER REINFORCEMENT, CONDUITS, OR EMBEDDED ITEMS.

2 TYPICAL CMU VERTICAL BAR PLACEMENT
NO SCALE

BRACE FRAMING (3 5/8" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
SJ 20 (40 KSI)	Ix = 0.541 IN^4 rx = 1.429 IN A = 0.2136 IN^2 Sx = 0.273 IN^3	4'-0" OC	14'-0"	BRACE @ MID-PT FOR LENGTHS OVER 14'-0"

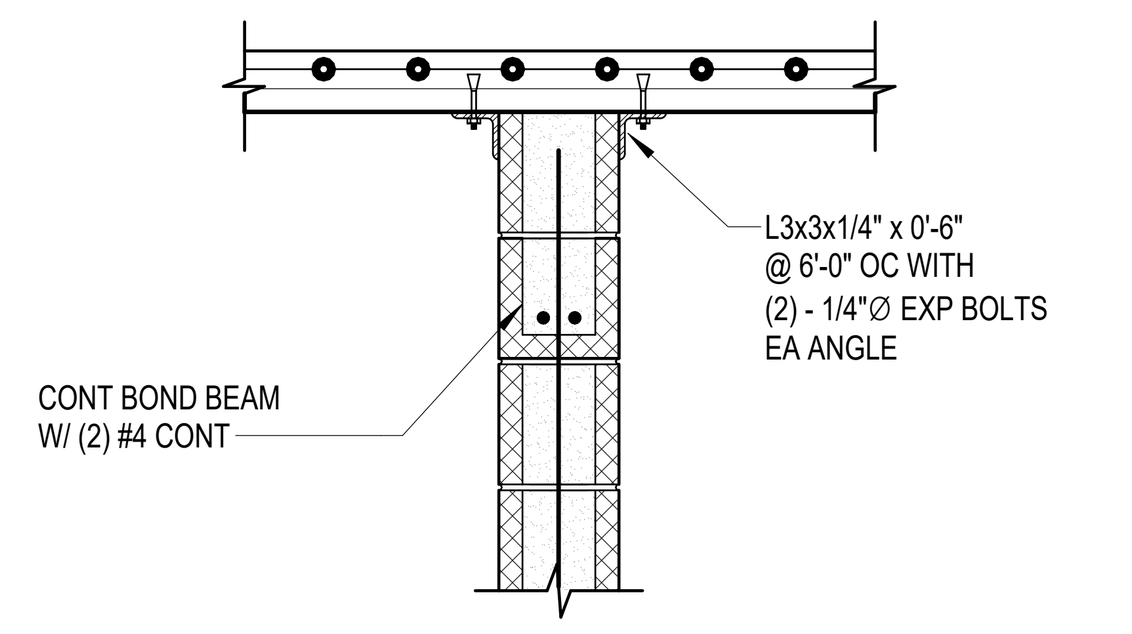
VERTICAL FRAMING (3 5/8" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
ST 25 (33 KSI)	Ix = 0.239 IN^4 rx = 1.415 IN A = 0.123 IN^2 Sx = 0.113 IN^3	1'-4" OC	16'-9"	* ONE LAYER SHEATHING (MIN)
ST 20 (33 KSI)	Ix = 0.414 IN^4 rx = 1.407 IN A = 0.210 IN^2 Sx = 0.213 IN^3	1'-4" OC	22'-6"	* ONE LAYER SHEATHING (MIN)

*OR PROVIDE 1 1/2x1 1/2x16 GA HORIZONTAL CHANNEL FASTENED TO STUDS WITH 1 1/2x1 1/2x14 GA CLIP AT 4'-0" OC VERTICALLY

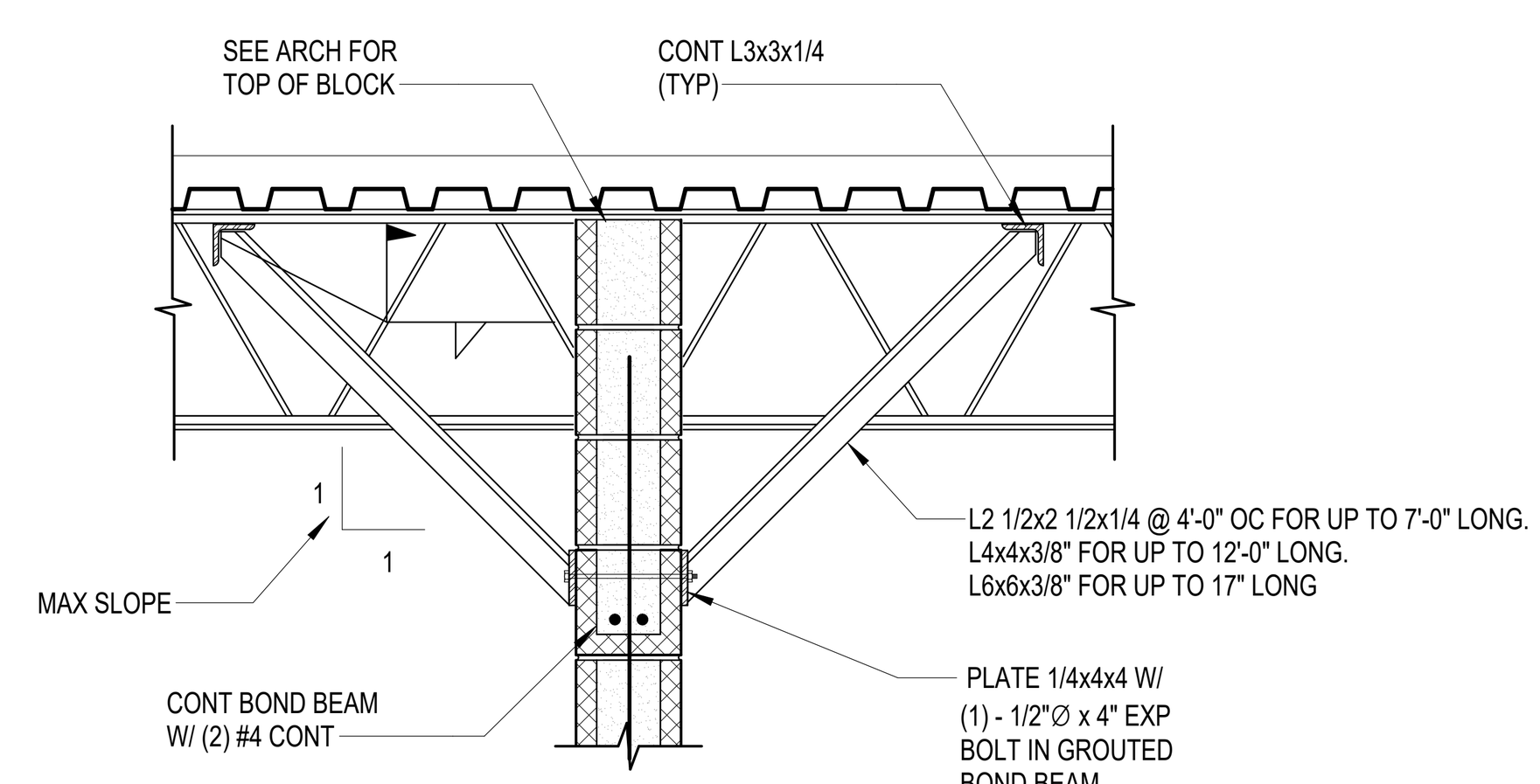
BRACE FRAMING (6" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
SJ 20 (40 KSI)	Ix = 1.787 IN^4 rx = 2.253 IN A = 0.2148 IN^2 Sx = 0.539 IN^3	4'-0" OC	20'-0"	BRACE @ MID-PT FOR LENGTHS OVER 20'-0"

VERTICAL FRAMING (6" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
ST 25 (33 KSI)	Ix = 0.773 IN^4 rx = 2.209 IN A = 0.167 IN^2 Sx = 0.184 IN^3	1'-4" OC	20'-0"	* ONE LAYER SHEATHING (MIN)
ST 20 (33 KSI)	Ix = 1.385 IN^4 rx = 2.199 IN A = 0.288 IN^2 Sx = 0.437 IN^3	1'-4" OC	32'-9"	* ONE LAYER SHEATHING (MIN)

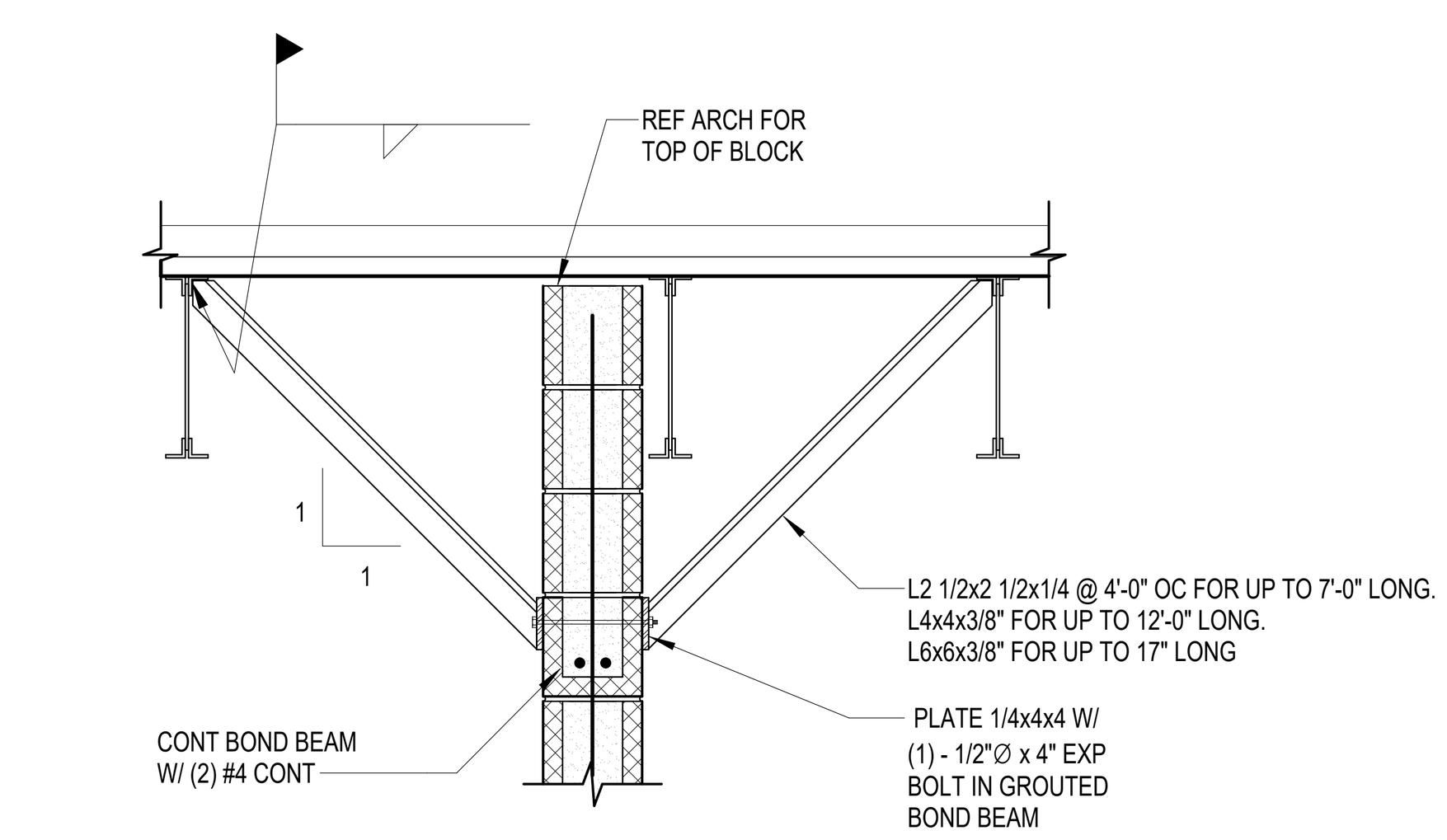
*OR PROVIDE 1 1/2x1 1/2x16 GA HORIZONTAL CHANNEL FASTENED TO STUDS WITH 1 1/2x1 1/2x14 GA CLIP AT 4'-0" OC VERTICALLY



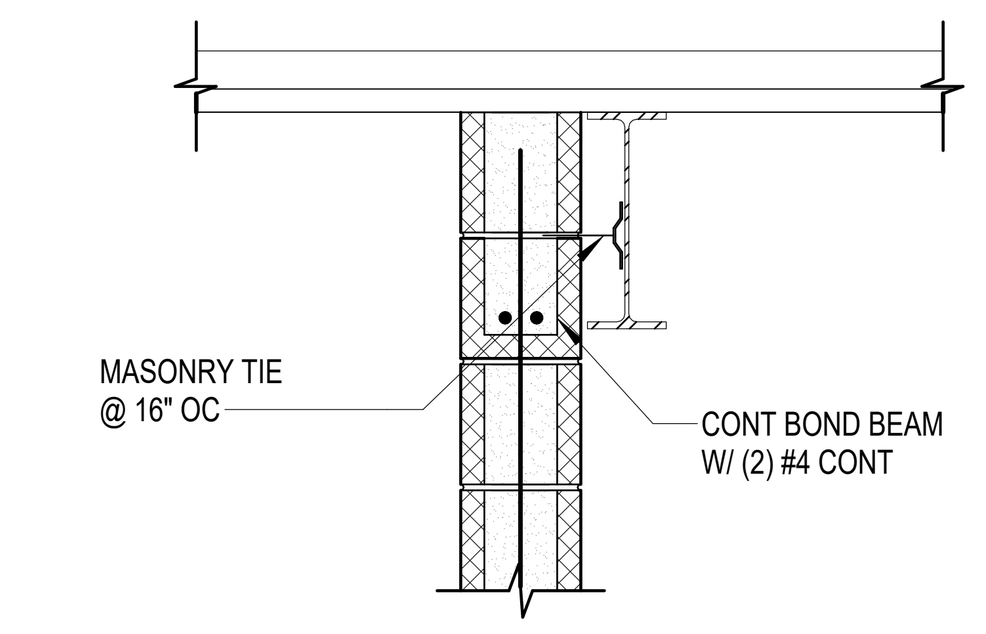
TYPE A (FLOOR)



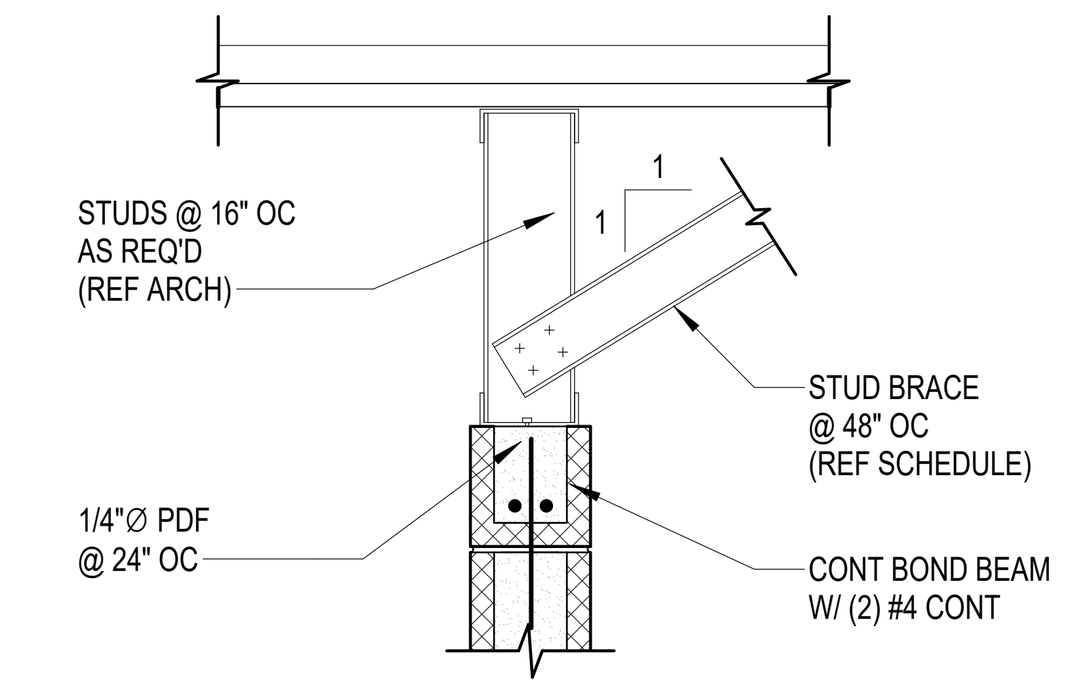
TYPE B (FLOOR / ROOF)



TYPE C (FLOOR / ROOF)



TYPE D (FLOOR / ROOF)



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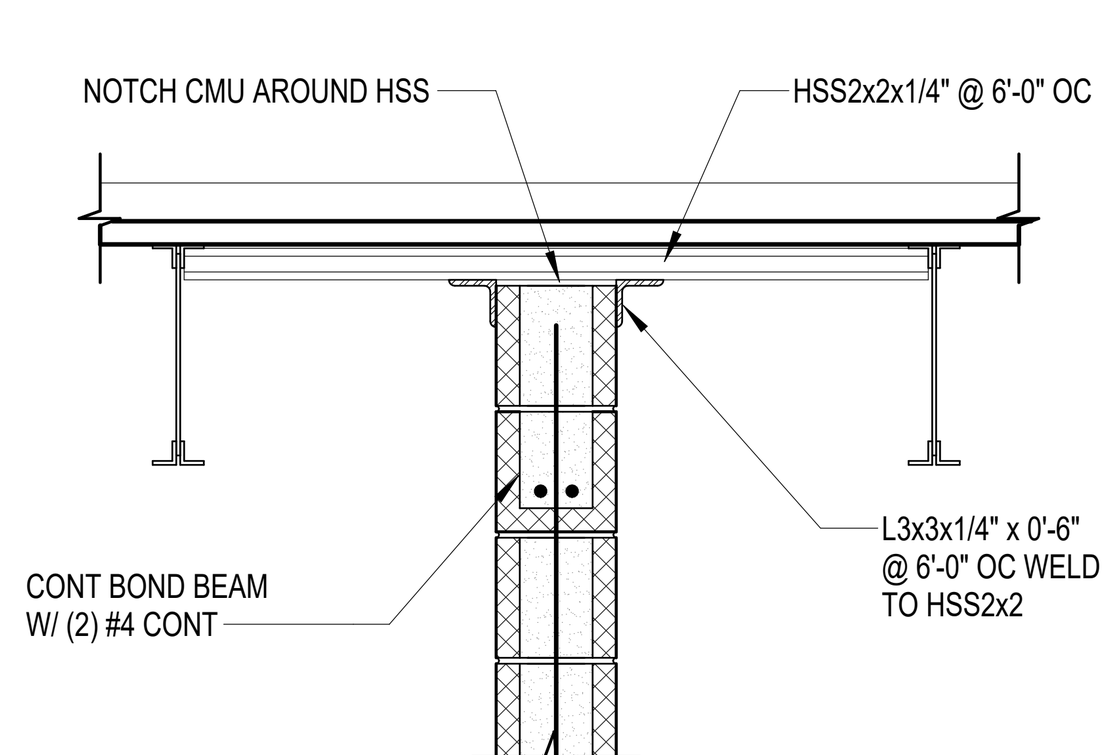
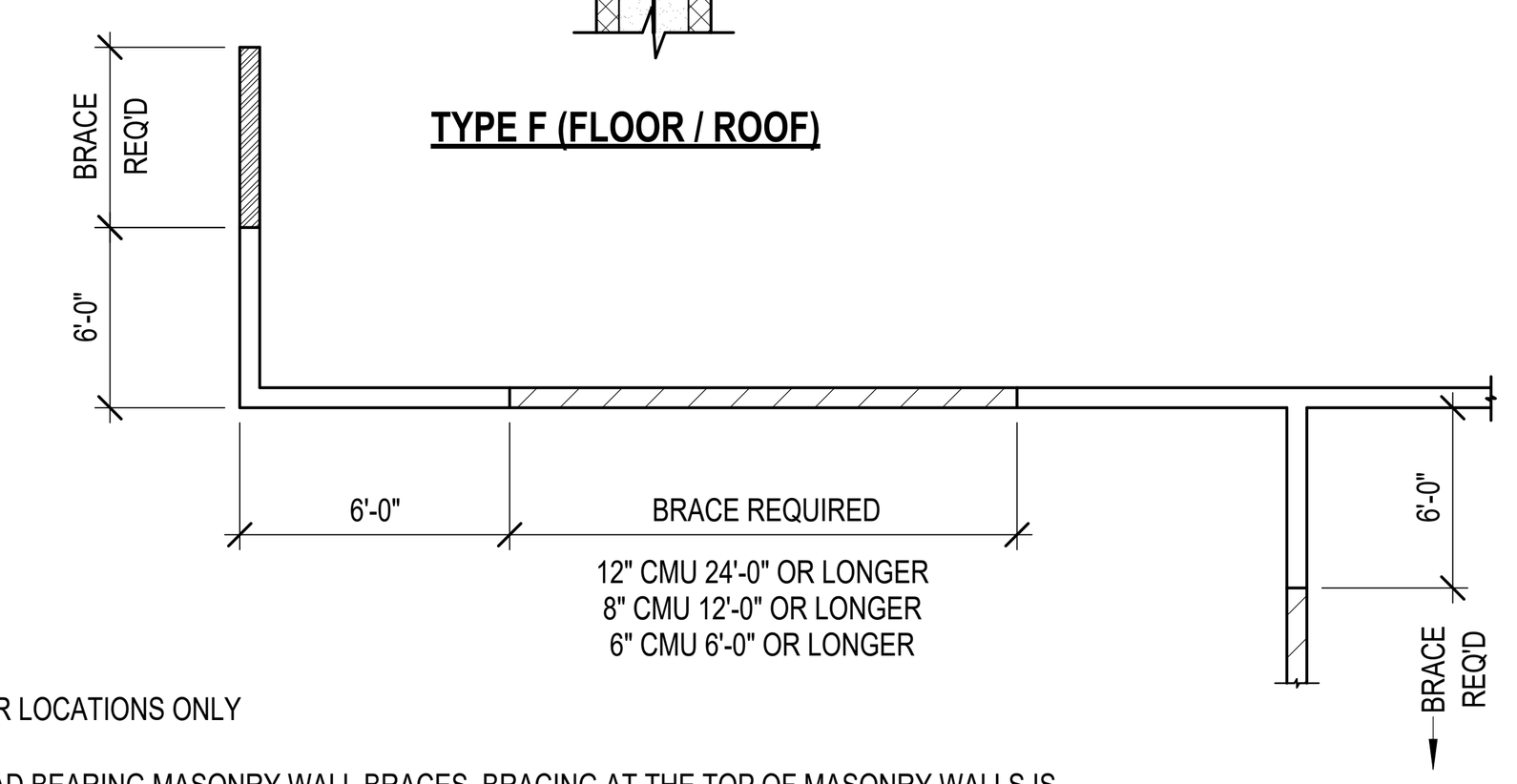


TYPE F (FLOOR / ROOF)



INTERIOR LOCATIONS ONLY

NON-LOAD BEARING MASONRY WALL BRACES. BRACING AT THE TOP OF MASONRY WALLS IS REQUIRED ON STRAIGHT RUNS OF WALL MORE THAN SIX FEET FROM A CORNER, INTERSECTING WALL, OR AS NOTED ABOVE.

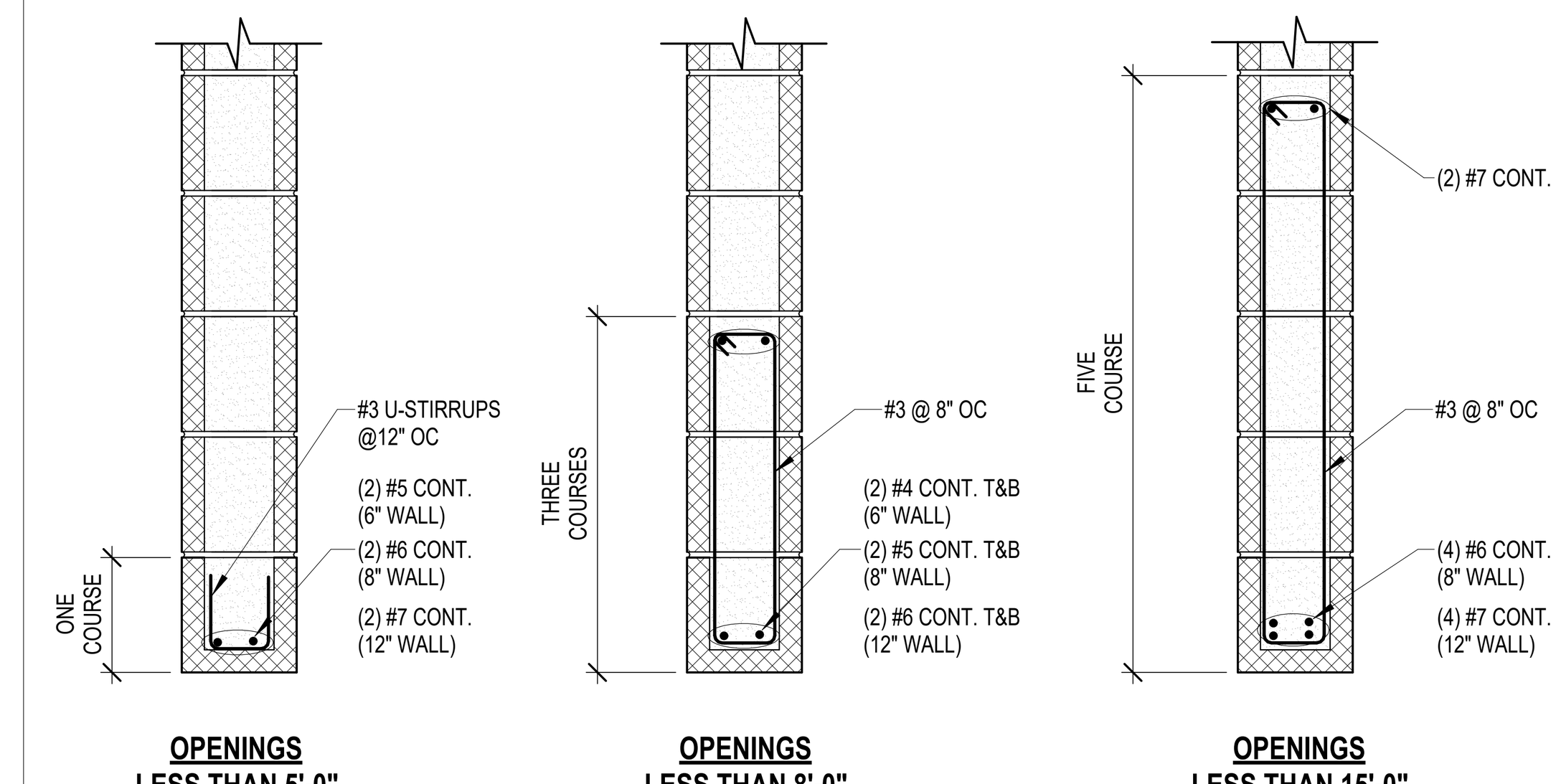
WHEN THE MASONRY WALL TERMINATES AT THE BOTTOM OF THE DECK, A TYPE 'A' ATTACHMENT AT THE FLOOR DECK OR A TYPE 'B', 'C', 'D' OR 'F' ATTACHMENT AT EITHER THE FLOOR OR ROOF MAY BE USED. WHEN WALLS TERMINATE ABOVE THE CEILING A TYPE 'B', 'C' OR 'E' ATTACHMENT SHOULD BE USED.

TYPICAL CMU WALL BRACING LOCATION PLAN

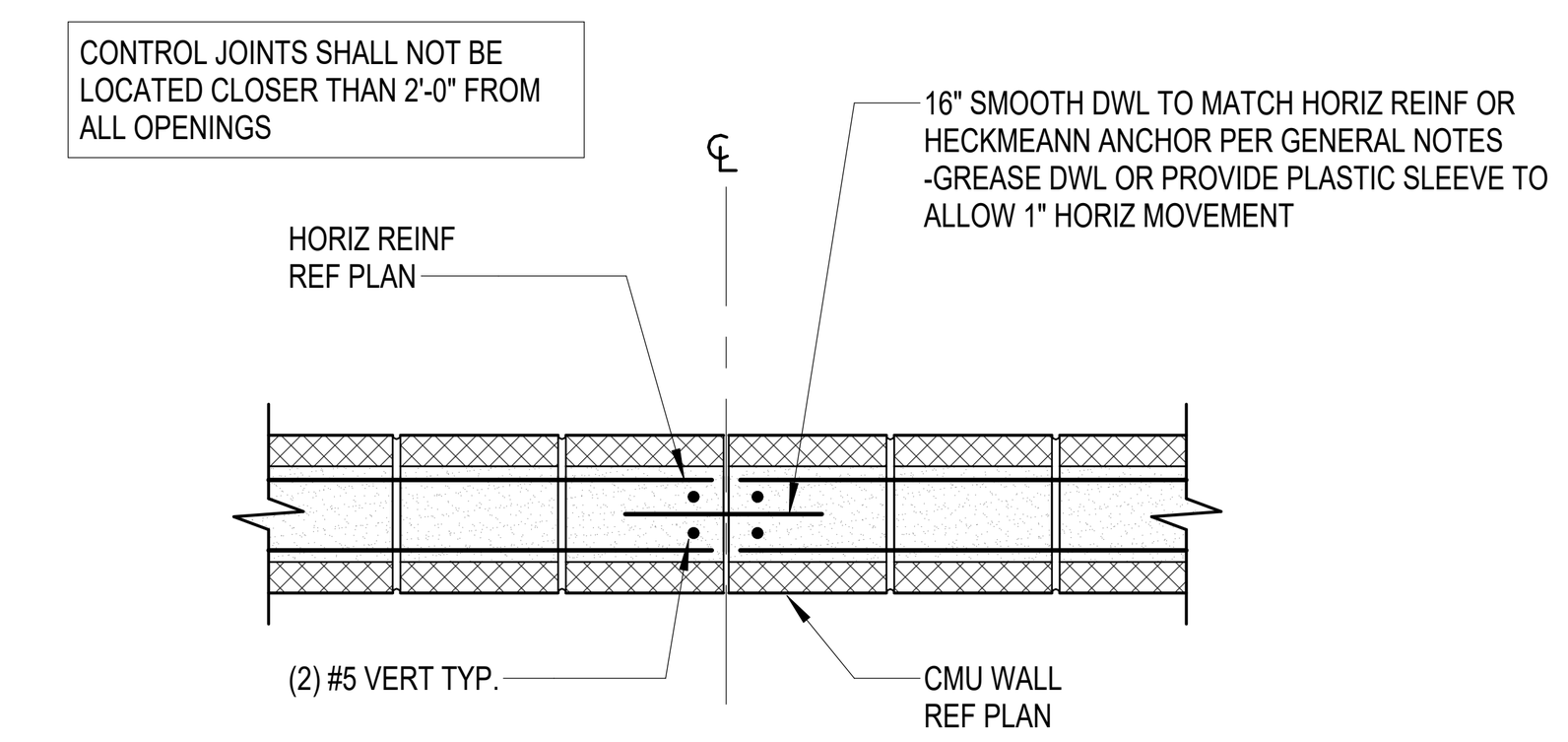
5 TYPICAL NON-STRUCTURAL CMU WALL BRACE CONNECTIONS
NO SCALE

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS. PROVIDE BLOCK LINTELS FOR ALL OPENINGS AT INTERIOR AND EXTERIOR WALLS FOR WHICH A STEEL LINTEL IS NOT SCHEDULED.
2. PROVIDE 1" OF BEARING @ EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 8". REINFORCING SHALL EXTEND A MINIMUM OF 6" ONTO THE BEARING.
3. FOR REINFORCED CMU WALLS AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT\ CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF OF THE TOTAL NUMBER OF CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
4. AS AN ALTERNATIVE TO USING A FILLED CMU BLOCK LINTEL (PER THE SCHEDULE ABOVE) FOR OPENINGS 5'-0" AND LESS, CONTRACTOR MAY USE CAST CRETE LINTEL (8U8).



3 MASONRY LINTEL SCHEDULE
NO SCALE



4 TYPICAL CONTROL JOINT DETAIL
NO SCALE

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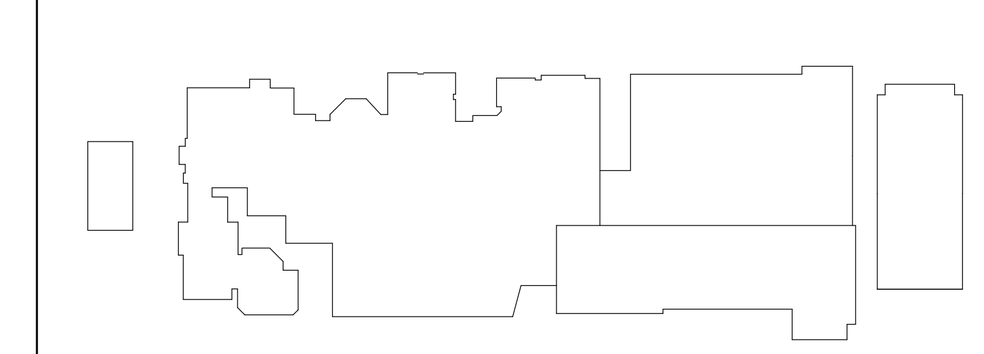
ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

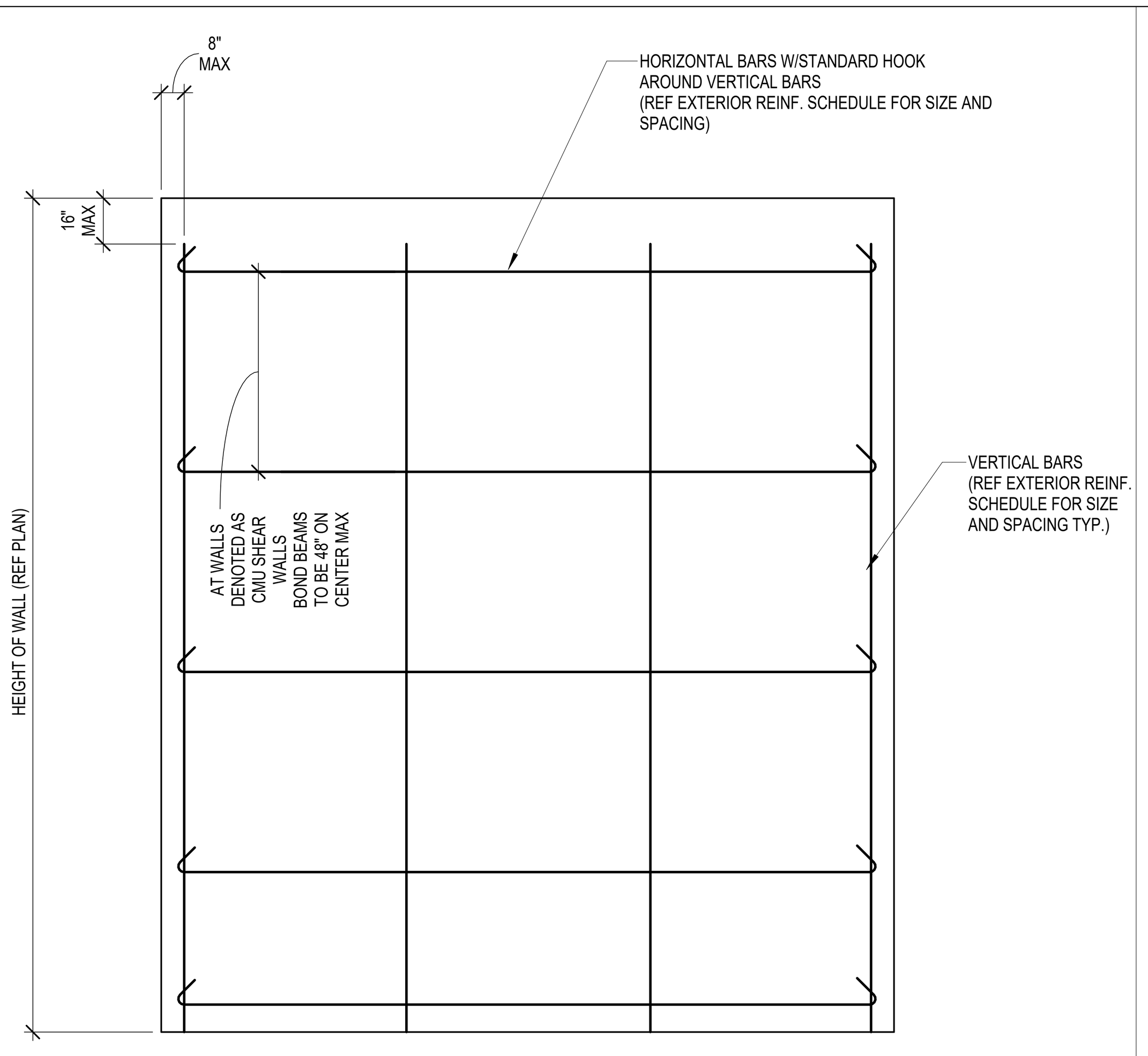
No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL CMU NOTES AND TYP DETAILS

S-400

Plot Stamp:
12/5/2025 11:52:25 AM



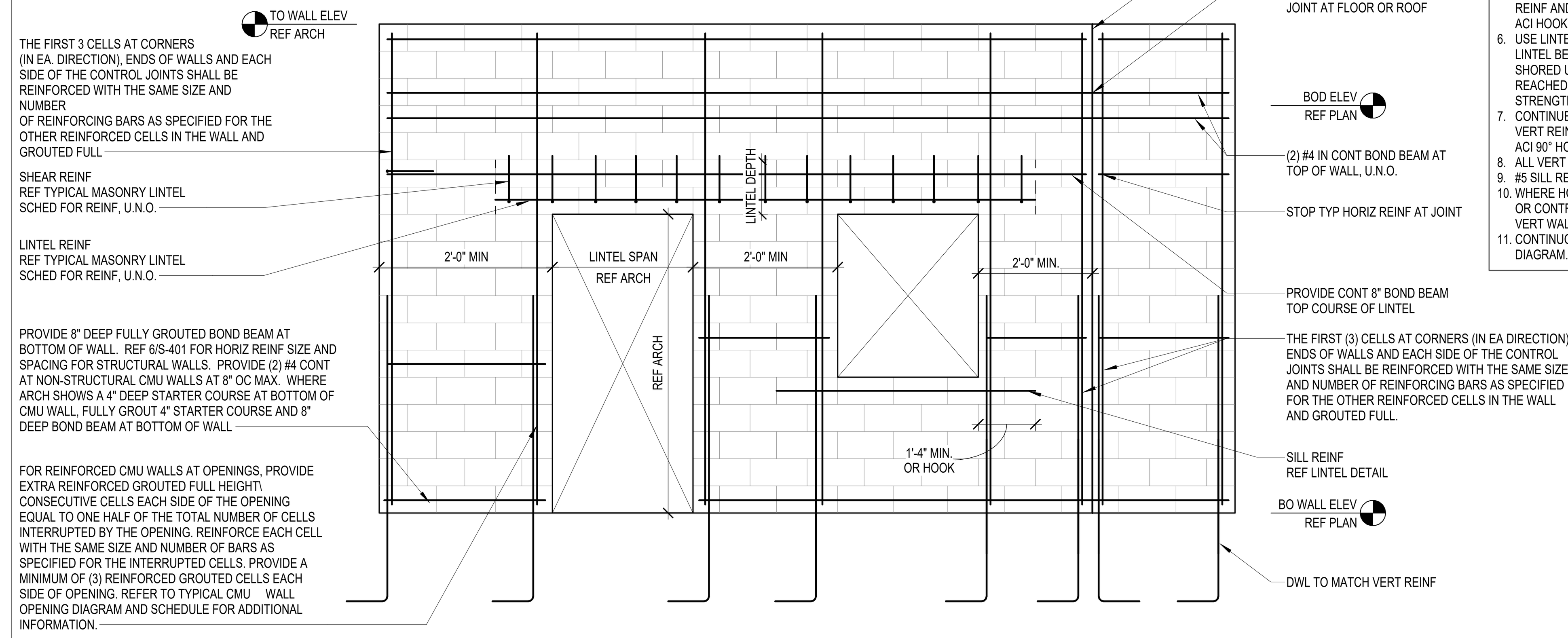
1 EXTERIOR MASONRY WALL REINF. ELEVATION
NO SCALE

	CMU (SIZE)	MEAN ROOF HEIGHT (SIMPLE SPAN, NON-LOAD BEARING)	VERT REINF (IN FULLY GROUTED CELLS)	DOWELS (4'-0" LONG MIN OR AS NEEDED FOR REQ'D LAP/EMBED)
EXTERIOR WALL	8"	16'-0"	#6 @ 16" OC	#6 @ 16" OC
	8"	>16'-0" ...... 28'-0"	#6 @ 16" OC EF	#6 @ 16" OC EF
	12"	16'-0"	#6 @ 24" OC	#6 @ 24" OC
	12"	>16'-0" ...... 28'-0"	#6 @ 16" OC EF	#6 @ 16" OC EF
INTERIOR WALL	6"	15'-0"	#5 @ 48" OC	#5 @ 48" OC
	8"	16'-0"	#6 @ 48" OC	#6 @ 48" OC
	8"	>16'-0" ...... 28'-0"	#6 @ 40" OC	#6 @ 40" OC

NOTES:

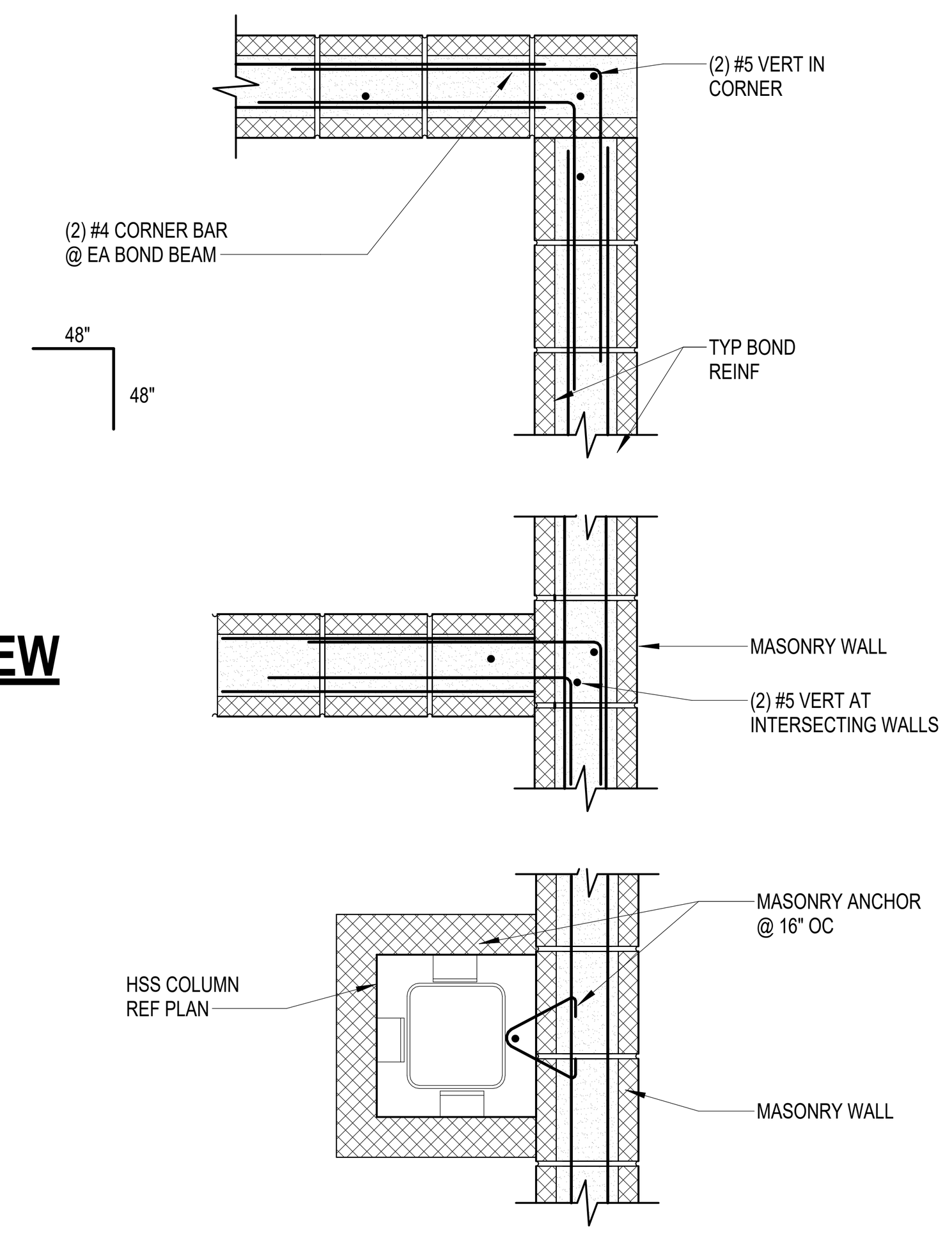
1. FOR ANY WALLS THAT DON'T MEET THE REQUIREMENTS OF THE SCHEDULE, GC TO CONTACT ENGINEER OF RECORD FOR PROPER REINFORCEMENT REQUIREMENTS.
2. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
3. AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING WITH (1) #5, (1) #6 OR (2) # 6, 8" or 12" UNREINFORCED CMU WALL IN EACH GROUTED CELL RESPECTFULLY.
4. REFER TO 'TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
5. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
6. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
7. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.
8. PROVIDE VERTICAL CONTROL JOINTS AT 5'-0" TO 8'-0" OC FROM CORNERS AND AT 15'-0" MAX IN BETWEEN. REF MISCELLANEOUS NOTE 3 ON S-400 FOR MORE INFORMATION.
9. IF AN INTERIOR NON-STRUCTURAL CMU WALL IS TALLER THAN THE OPTIONS PROVIDED IN THIS CHART THE GC SHALL INFORM THE EOR TO REVIEW AND PROVIDE ANY ADJUSTMENTS TO CMU WALL THICKNESS OR REINFORCING THAT MAY BE NEEDED. FOR BIDDING PURPOSES, FOR ANY WALLS WHICH ARE INTERIOR NON-STRUCTURAL AND ARE TALLER THAN PROVIDED BY THIS CHART THE GC SHALL ASSUME #6 BARS AT 24 "OC.

2 TYPICAL NON-STRUCTURAL MASONRY WALL REINF. SCHEDULE
NO SCALE

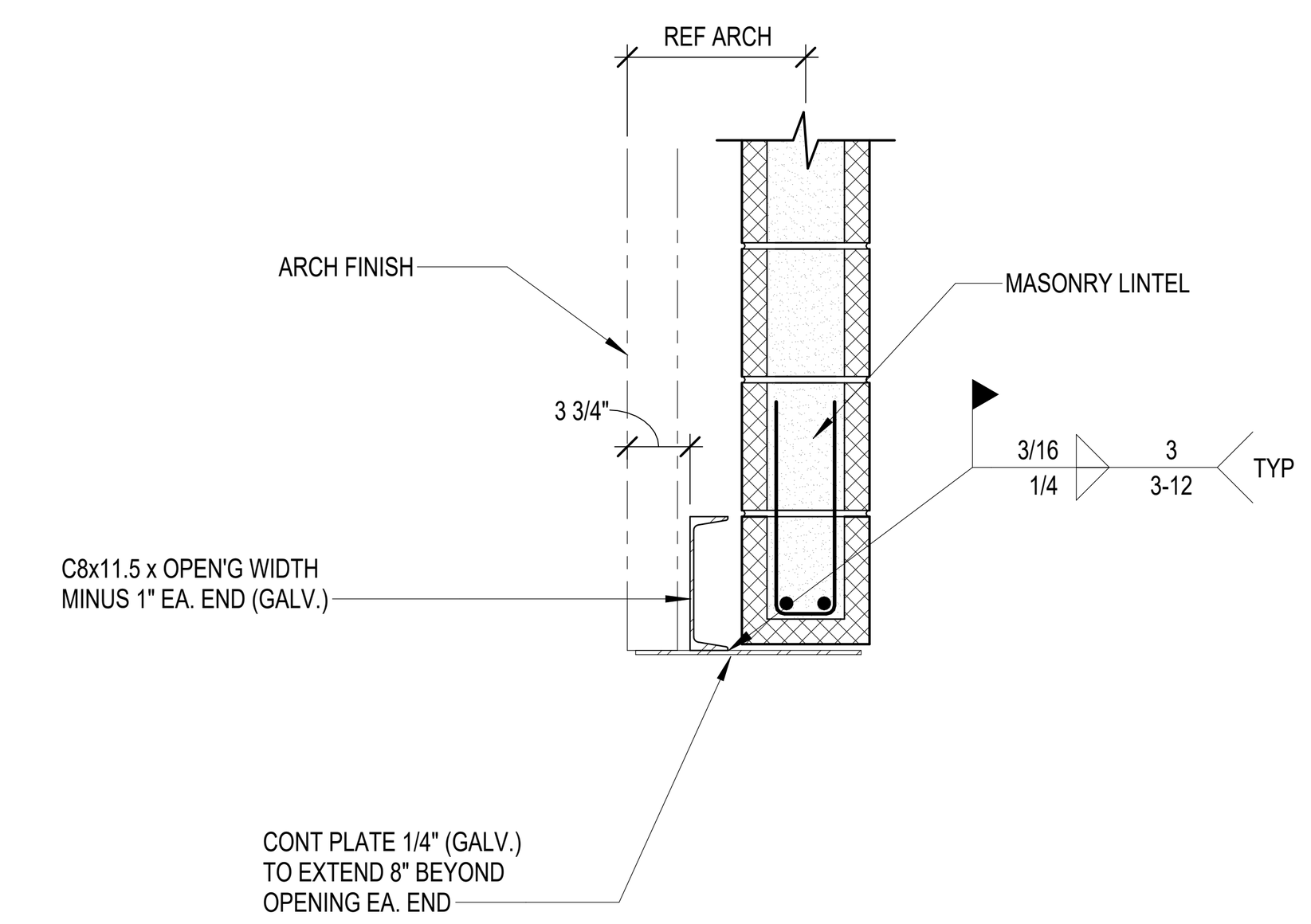


NOTES:
1. REFER TO ARCH AND MECH DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. REFER TO SCHEDULES FOR LINTEL AND JAMB REINFORCING UNLESS DETAILED OTHERWISE.
3. SPLICES IN VERT REINF REF CMU WALL REINF DIAGRAM.
4. CMU WALL STARTS ABOVE FLOOR.
5. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINF AND 1'-0" FOR LINTEL REINF WITH STANDARD ACI HOOK.
6. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENING. LINTEL SHALL REMAIN SHORED UNTIL MASONRY CONSTRUCTION ABOVE HAS REACHED 100% OF THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
7. CONTINUE VERT WALL REINF OVER OPENING. ANCHOR VERT REINF INTO LINTEL BEAM WITH STANDARD ACI 90° HOOK.
8. ALL VERT BARS AT DOOR JAMBS TO BE FULL HEIGHT.
9. #5 SILL REINF. SOLID GROUT SILL.
10. WHERE HORIZONTAL REINF IS TERMINATED BY OPENING OR CONTROL JOINT PROVIDE STANDARD ACI HOOK WITH VERT WALL REINF IN THE END CELL.
11. CONTINUOUS BOND BEAM REF CMU WALL REINF DIAGRAM.

3 TYPICAL MASONRY WALL ELEVATION
NO SCALE



4 MASONRY WALL BRACING/REINF. DETAIL
NO SCALE



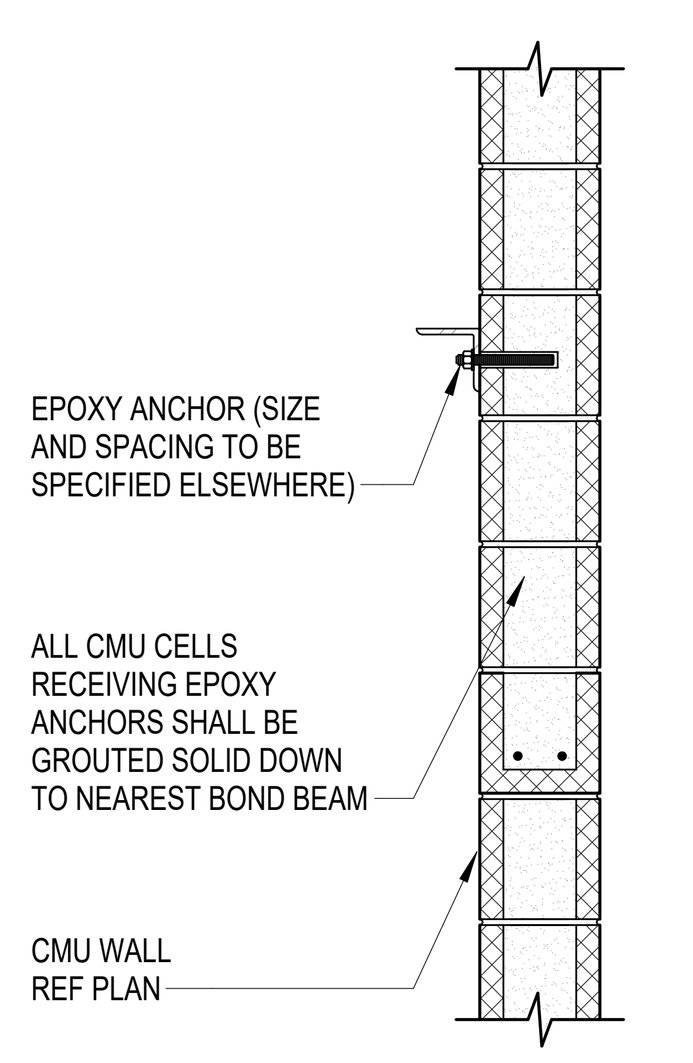
5 TYPICAL HEADER DETAIL AT OVERHEAD DOORS
NO SCALE

	SW TAG	CMU (SIZE)	MEAN ROOF HEIGHT (SIMPLE SPAN)	VERT REINF (IN FULLY GROUTED CELLS)	HORIZ REINF (IN FULLY GROUTED CELLS)	JAMB / JOINT REINF (IN FULLY GROUTED CELLS)
EXTERIOR WALL	SW1	8"	16'-0"	#6 @ 24" OC EF	#5 @ 48" OC	(2) #5 PER CELL IN FIRST 2 CELLS
			>16'-0" ...... 28'-0"	#6 @ 16" OC EF	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS
	SW2	12"	16'-0"	#6 @ 40" OC EF	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS
			>16'-0" ...... 28'-0"	#6 @ 16" OC EF	#5 @ 32" OC EF	(2) #6 PER CELL IN FIRST 3 CELLS
INTERIOR WALL	SW1	8"	16'-0"	#6 @ 32" OC	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS
			>16'-0" ...... 28'-0"	#6 @ 16" OC EF	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS

NOTES:

1. UNLESS NOTED OTHERWISE, REFER TO THE SCHEDULE ABOVE FOR VERTICAL WALL REINFORCING REQUIREMENTS AT ALL STRUCTURAL CMU WALLS.
2. THE STRUCTURAL MASONRY SHOWN ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS, INCLUDING CLIP ANGLES, DOWELS AND ADDITIONAL SECONDARY FRAMING MEMBERS, ETC., SHOWN ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING. THE TEMPORARY STEEL FRAME BRACING PROVIDED DURING CONSTRUCTION SHALL NOT BE REMOVED UNTIL ALL STRUCTURAL LATERAL BRACING SYSTEMS (INCLUDING STRUCTURAL MASONRY WALLS) HAVE BEEN INSTALLED AND CONNECTED TO THE STEEL FRAMING.
3. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
4. AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO 'TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
5. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
6. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
7. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.

6 TYPICAL STRUCTURAL MASONRY SHEAR WALL REINF. SCHEDULE
NO SCALE

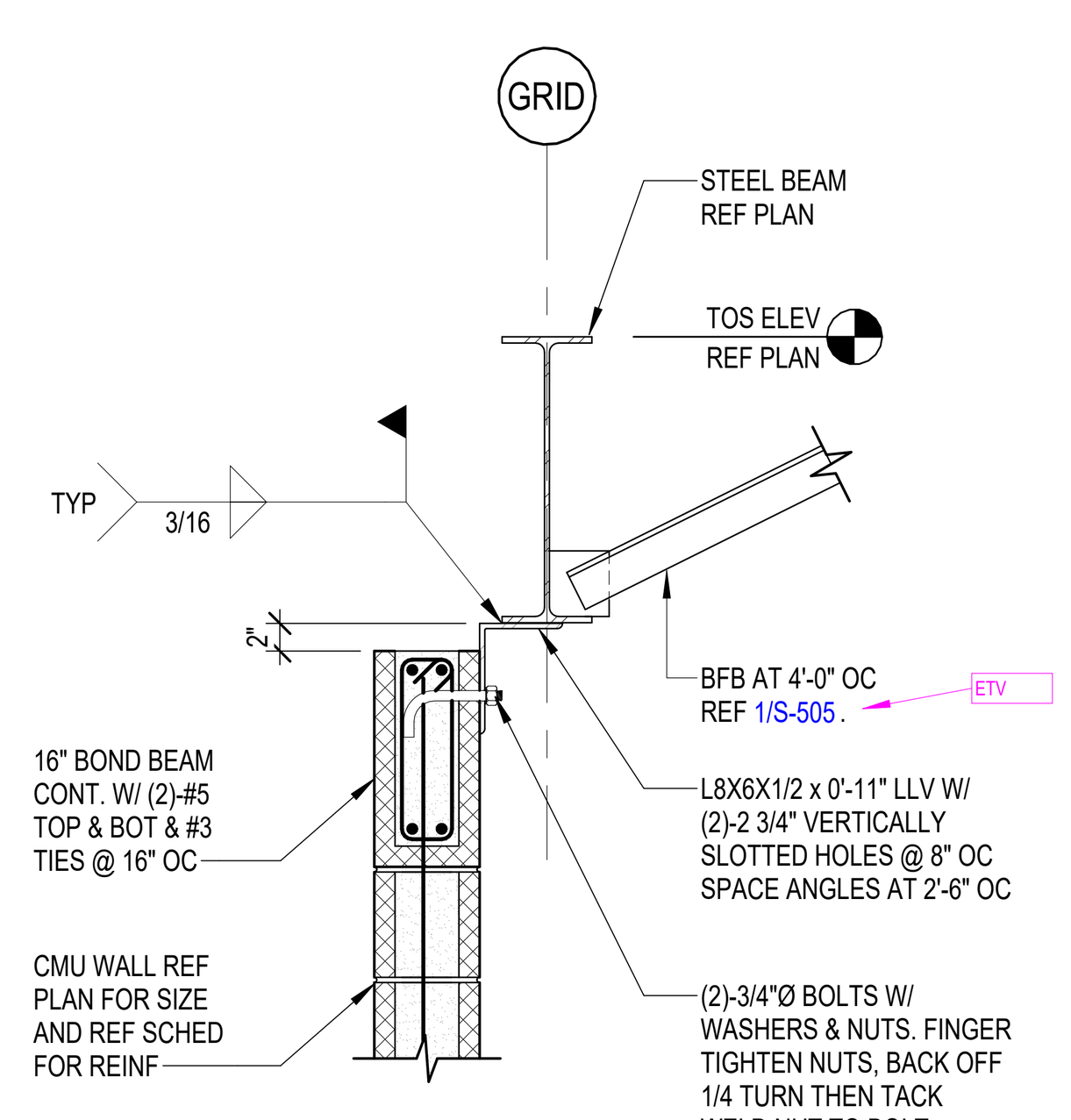


EPOXY ANCHOR SCHEDULE	
SPECIFIED DIAMETER	EMBEDMENT DEPTH
1/2"	4 1/2"
5/8"	5 5/8"
3/4"	6 3/4"

NOTES:

1. THIS DETAIL SHALL APPLY AT ALL LOCATIONS WHERE EPOXY OR ADHESIVE ANCHORS ARE SPECIFIED WITHIN THE DRAWINGS.
2. ALL THREADED RODS FOR EPOXY ANCHORS SHALL BE MADE FROM EITHER A307 OR A36 STEEL.
3. IF GREATER EMBEDMENT DEPTHS ARE SPECIFIED IN THE DRAWINGS, THOSE EMBEDMENT DEPTHS SHALL GOVERN.
4. EPOXY ANCHORS IN CMU AND CONCRETE SHALL BE LOCATED AT LEAST 4" AWAY FROM ALL EDGES. THE CENTER TO CENTER SPACING OF EPOXY ANCHORS SHALL NOT BE LESS THAN 8". WHERE EPOXY ANCHORS ARE LOCATED IN CMU, THERE SHALL BE A MAXIMUM OF ONE ANCHOR PER CELL.
5. ALL EPOXY ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING HOLE DIAMETERS, HOLE CLEANING PROCEDURES, TORQUE SPECIFICATIONS, AND SPECIAL INSPECTIONS).
6. HILTI HY-200 V3 ADHESIVE ANCHORING SYSTEM SHALL BE USED AT ALL ADHESIVE ANCHORS IN CMU.

7 TYPICAL EPOXY ANCHOR DETAIL
NO SCALE



8 TYPICAL WALL BRACING AT STEEL BEAM
3/4" = 1'-0"

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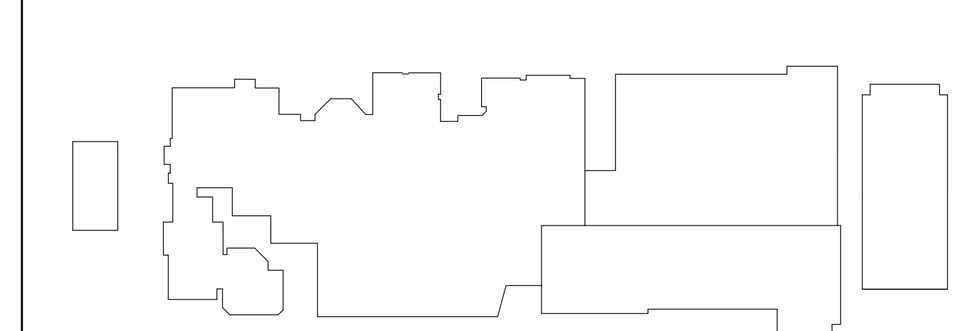


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL CMU NOTES AND TYP DETAILS

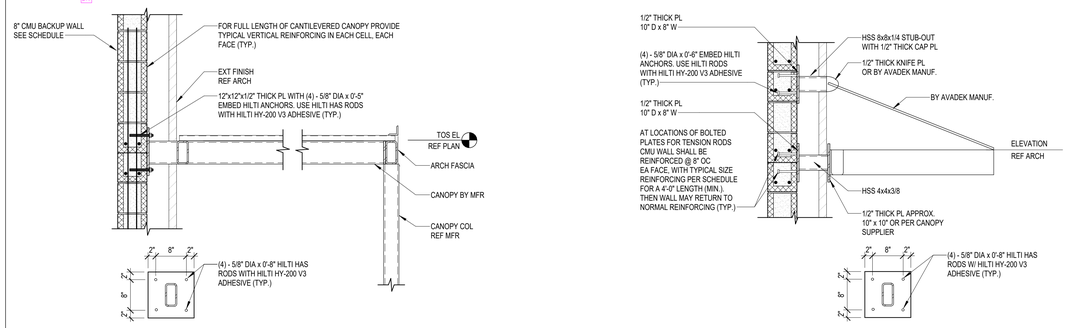
S-401

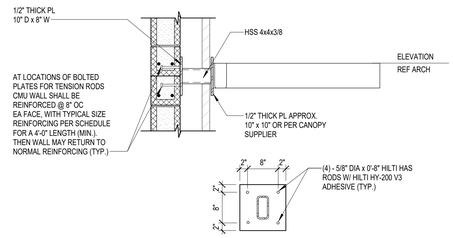
Plot Stamp:
12/5/2025 11:52:27 AM

MISC CMU DETAILS
S-402
FOR BLUEBEAM LABEL:INGOOR:

0"
1"

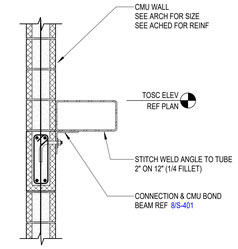
NOTES:
1. EXTEND BOND BEAM CONTINUOUSLY BETWEEN PILASTERS FOR EACH CANOPY LEVEL.
2. GALVANIZE ALL PARTS THAT EXTEND THROUGH ARCHL WALL MATERIALS.
3. CONNECTION APPLIES FOR CANOPY ROOF FRAMING BEAMS AND HANGERS.
4. SEE 7/S-402 FOR TYPICAL LINTEL WITH SHELF ANGLE



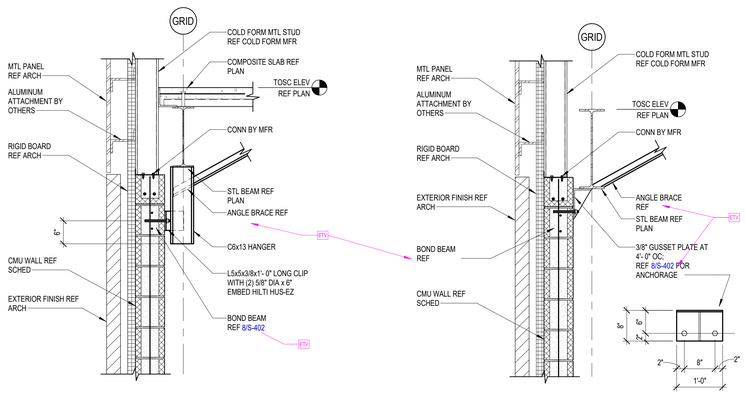


1 AVADEK CANOPY CONNECTION DETAIL
3/4" = 1'-0"

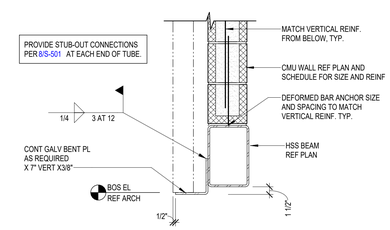
PROVIDE STUB-OUT CONNECTIONS PER 7/S-501 OR 8/S-501 AT EACH END OF TUBE



4 CMU WALL SUPPORT DETAIL
NO SCALE

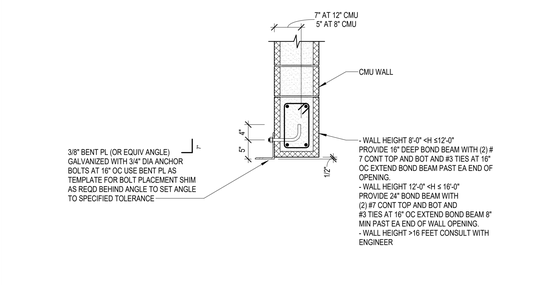


5 TYPICAL CMU TO STUD TRANSITION
NO SCALE

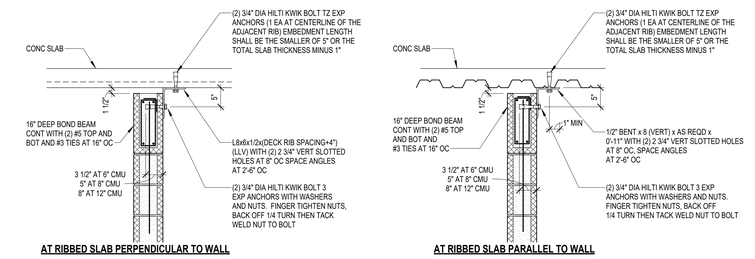


6 TYP LOW TUBE AT BRICK SUPPORT
1" = 1'-0"

NOTE:
HORIZONTAL LEG OF ANGLE OR BENT PL TO EQUAL DISTANCE FROM FACE OF BRICK TO FACE OF CMU LESS MINUS 1/2"

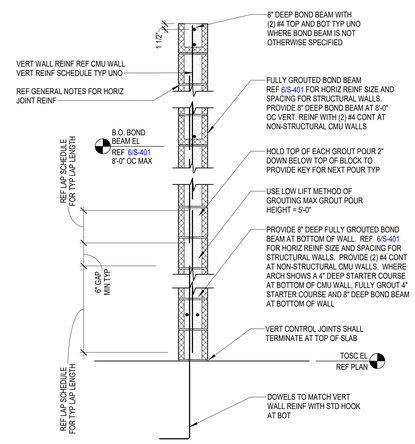


7 TYPICAL LINTEL WITH SHELF ANGLE
3/4" = 1'-0"



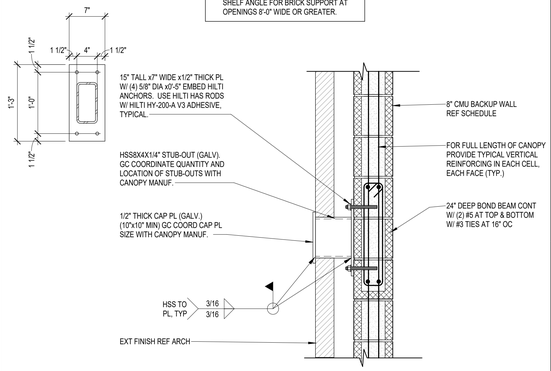
8 TYPICAL BRACING AT TOP OF STRUCTURAL CMU SHEAR WALLS AND NON STRUCTURAL EXTERIOR CMU WALLS
3/4" = 1'-0"

NOTE:
REF SHEET S-400, AND DETAILS 2/S-401, 6/S-401 FOR INFO NOT SHOWN HERE



9 TYPICAL CMU WALL AT ELEVATED LEVELS
NO SCALE

NOTES:
1. EXTEND BOND BEAM CONTINUOUSLY BETWEEN PILASTERS FOR EACH CANOPY LEVEL.
2. GALVANIZE ALL PARTS THAT EXTEND THROUGH ARCHL WALL MATERIALS.
3. CONNECTION APPLIES FOR CANOPY ROOF FRAMING BEAMS AND HANGERS.
4. SEE 7/S-402 FOR TYPICAL LINTEL WITH SHELF ANGLE FOR BRICK SUPPORT AT OPENINGS 8'-0" WIDE OR GREATER.



10 ALUMINUM CANOPY ATTACHMENT AT CMU
1" = 1'-0"

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

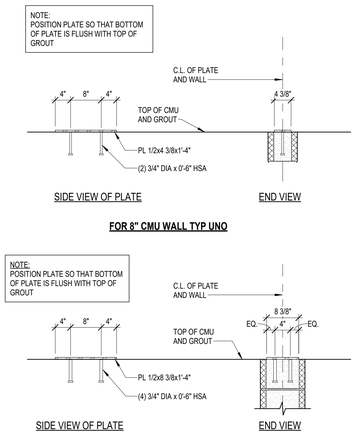
MISC CMU DETAILS

S-402

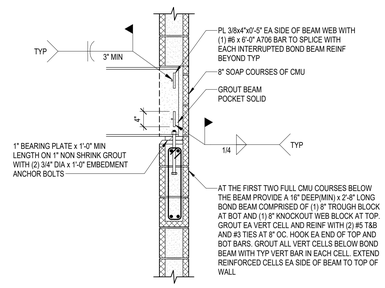
Plot Stamp:
12/5/2025 11:52:28 AM

MISC CMU DETAILS
S-403
FOR BLUEBEAM LABELINGDOOR:

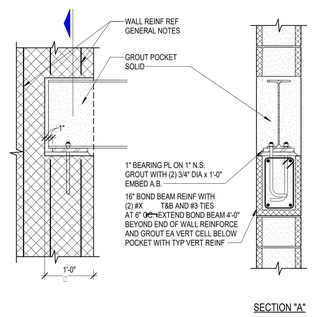
0"
1"



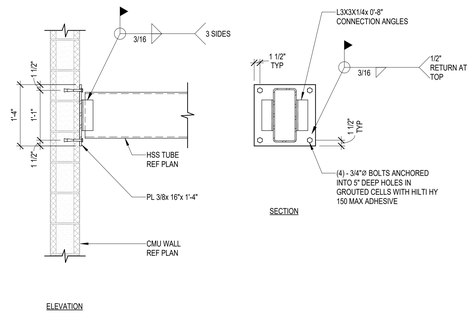
1 EMBED AT JOIST OR DECK SUPPORT ELEMENT
3/4" = 1'-0"



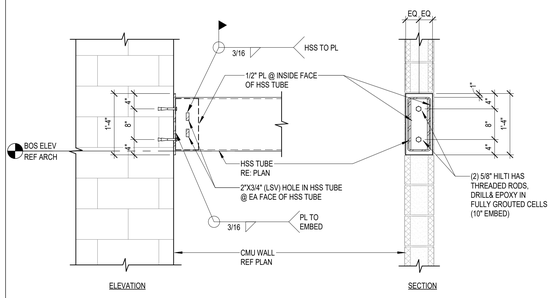
2 STEEL BEAM BEARING ON MASONRY WALL
3/4" = 1'-0"



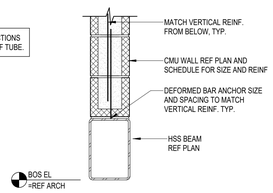
3 STEEL BEAM BEARING AT END OF MASONRY WALL
3/4" = 1'-0"



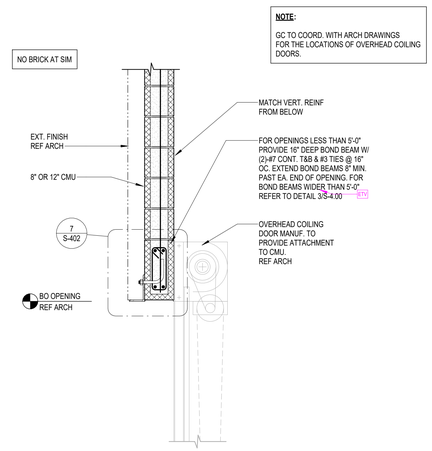
4 HSS TUBE BEARING ON MASONRY WALL
3/4" = 1'-0"



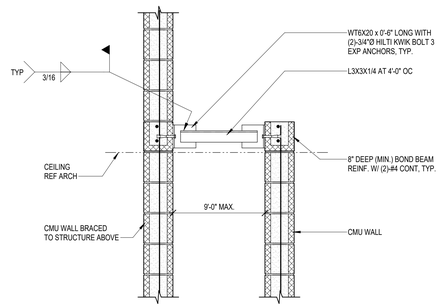
5 HSS TUBE BEARING AT END OF MASONRY WALL
3/4" = 1'-0"



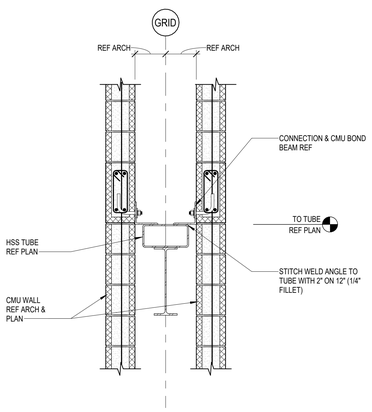
6 TYP LOW TUBE AT CMU SUPPORT
1" = 1'-0"



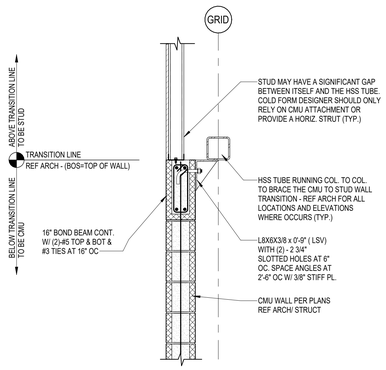
7 OVERHEAD COILING DOOR SECTION AT CMU
3/4" = 1'-0"



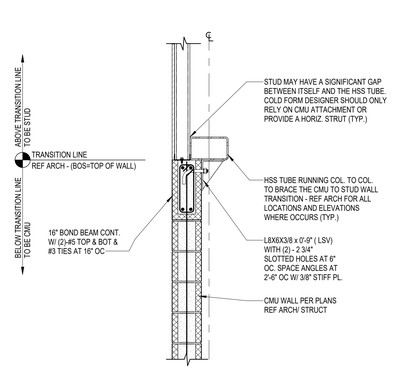
8 BRACE DETAIL AT DOUBLE WYTHE CMU WALLS
3/4" = 1'-0"



10 BRACE DETAIL AT DOUBLE WYTHE CMU WALLS
3/4" = 1'-0"



A - TYP. TUBE AT CMU TO STUD WALL TRANSITION IN PLANE W/ CENTERLINE OF COLUMN



B - TYP. OFFSET TUBE AT CMU TO STUD WALL TRANSITION

11 TYPICAL CMU TO STUD TRANSITION
NO SCALE

Plot Stamp:
12/5/2025 11:52:29 AM

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ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE: F-23612
TX. REG: 1st T-29812

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

MISC CMU DETAILS

S-403

STRUCTURAL STEEL:

MATERIAL:

1. STRUCTURAL STEEL IS TO CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, AND IS TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS:
   - A. STEEL WIDE FLANGE AND WT SECTIONS........ASTM A992 OR ASTM A572 - GRADE 50
   - B. MISCELLANEOUS STEEL SECTIONS (ANGLES, CHANNELS AND BARS)........ASTM A36
   - C. HOLLOW STEEL SECTIONS........ASTM A500, GRADE B OR C, (46 KSI MIN)
   - D. STEEL PIPE SECTIONS........ASTM A53, GRADE B
   - E. BOLTS AND NUTS (HEAVY-HEX)........ASTM A325
   - F. SHEAR-STUD CONNECTORS........ASTM A108
   - G. ANCHOR RODS........ASTM F1554, GRADE 36, GRADE 55 OR GRADE 105
   - H. PLATES........ASTM A36 OR A572 GRADE 50
   - K. WASHERS........ASTM F436
2. ALL STEEL SHALL BE DOMESTICALLY (INCLUDING CANADA) MILLED AND FABRICATED. FOREIGN STEEL SHALL NOT BE UTILIZED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE APPROVAL PROCESS SHALL TAKE PLACE DURING BIDDING TIME. ANY REQUEST TO UTILIZE FOREIGN STEEL MADE AFTER BIDDING SHALL BE REJECTED.
3. STRUCTURAL STEEL, MISCELLANEOUS METAL, AND EMBEDS EXPOSED TO THE EXTERIOR ARE TO BE HOT DIP GALVANIZED AFTER FABRICATION, EXCEPT AS NOTED ON THE DRAWINGS. TUBE SHAPE MEMBERS EXPOSED TO THE EXTERIOR SHALL HAVE CAP PLATES SEAL WELDED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. STRUCTURAL STEEL IS TO BE PREPARED AND PRIMED ACCORDING TO THE PROJECT SPECIFICATIONS. STRUCTURAL STEEL LOCATED IN CRAWL SPACES OR OTHERWISE INACCESSIBLE AREAS IS TO RECEIVE 2 COATS OF PRIMER.
5. CONTINUITY PLATES (FULL DEPTH COLUMN STIFFENERS ALIGNED WITH BEAM FLANGES, OR FULL DEPTH BEAM STIFFENERS ALIGNED WITH COLUMN FLANGES) SHALL MATCH THE STEEL GRADE OF THE BASE MEMBER.
6. IN ADDITION TO THE STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THREE (3) PERCENT OF TOTAL TONNAGE OF FABRICATED STEEL (LABOR FOR ERECTION SHALL BE INCLUDED) DURING THE PROCESS OF WORK AS MAY BE DIRECTED BY THE ARCHITECT/ENGINEER OF RECORD. IF STEEL IS NOT USED DURING THE COURSE OF THE PROJECT, OWNER IS TO RECEIVE A CREDIT FOR THE PORTION NOT USED.

CONNECTIONS:

1. THE DESIGN OF THE STRUCTURAL STEEL CONNECTIONS, WHICH ARE NOT FULLY DETAILED IN THE CONTRACT DOCUMENTS, IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTIONS SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, WORKING FOR THE FABRICATOR, IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE AISC 303-CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
2. THE FABRICATOR'S LICENSED STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN SHALL REVIEW AND CONFIRM IN WRITING THAT THE SHOP AND ERECTION DRAWINGS PROPERLY INCORPORATE THE CONNECTION DESIGNS PRIOR TO SUBMITTING THE CONNECTION CALCULATIONS AND SHOP DRAWINGS TO THE ENGINEER-OF-RECORD FOR REVIEW.
3. THE FABRICATOR SHALL PROVIDE A MEANS BY WHICH THE CONNECTION INFORMATION PREPARED BY THE FABRICATOR'S LICENSED PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN IS REFERENCED TO THE RELATED CONNECTIONS ON THE SHOP AND ERECTION DRAWINGS FOR THE PURPOSE OF REVIEW.
4. THE FABRICATOR SHALL PROVIDE BEAM SHEAR CONNECTIONS USING THE VERTICAL REACTIONS PROVIDED ON THE PLANS, WHICH ARE PROVIDED AS KIPS (SERVICE-LOAD LEVEL). ALLOWABLE STRESS DESIGN (ASD) SHALL BE USED IN THE SELECTION, COMPLETION AND DESIGN OF CONNECTION DETAILS. **IN INSTANCES WHERE REACTIONS ARE NOT SPECIFIED ON THE PLANS, THE CONNECTION DESIGNER SHALL PROVIDE CONNECTIONS BASED ON THE WORST-CASE SHEAR REACTION (HIGHEST SHEAR CAPACITY) FROM THE OPTIONS LISTED BELOW:**
   - **4.1 OPTION 1 (BASED ON BEAMS' ALLOWABLE UNIFORM LOAD):** SHEAR CONNECTION CAPACITIES FOR BEAMS SHALL BE ONE-HALF (50 PERCENT) THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 OF THE AISC MANUAL OF STEEL CONSTRUCTION. CONNECTIONS FOR COMPOSITE BEAMS AND CAMBERED ROOF BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.
   - **4.2 OPTION 2 (MINIMUM SERVICE-LOAD / ASD) SHEAR REACTIONS:** ALL BEAM CONNECTIONS SHALL HAVE A MINIMUM SERVICE LOAD (ASD) SHEAR CAPACITY GIVEN IN TABLE 4.2. REFER TO TYPICAL DOUBLE-ANGLE CONNECTION SCHEDULE (1/S-503) AND TYPICAL SHEAR TAB BOLTED CONNECTION SCHEDULE (2/S-503) FOR SHEAR CONNECTIONS THAT MEET THE MINIMUM SERVICE-LOAD (ASD) SHEAR CONNECTION CAPACITIES LISTED IN TABLE 4.2. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

TABLE 4.2 - MINIMUM SERVICE-LOAD (ASD) SHEAR CONNECTION CAPACITIES

BEAM SIZE	MINIMUM REACTION (KIPS) (SERVICE-LOAD LEVEL)	BEAM SIZE	MINIMUM REACTION (KIPS) (SERVICE-LOAD LEVEL)
W8	9	W24	83
W10	14	W27	113
W12	23	W30	119
W14	28	W33	142
W16	40	W36	160
W18	48	W40	193
W21	64	W44	195

5. SHEAR CONNECTIONS MAY BE SELECTED FROM THE TABLES IN PART 10 OF THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION IF THE CONNECTION MEETS THE SHEAR CAPACITY REQUIREMENTS OF CONNECTION NOTE 4 ABOVE. TABLE 10-1 SHALL BE USED FOR BOLTED DOUBLE ANGLE CONNECTIONS, TABLE 10-2 SHALL BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS, AND TABLE 10-3 SHALL BE USED FOR WELDED DOUBLE ANGLE CONNECTIONS.
6. DOUBLE CONNECTIONS AT COLUMNS AND/OR AT BEAM WEBS OVER A COLUMN. WHEN TWO STRUCTURAL MEMBERS ON OPPOSITE SIDES OF A COLUMN WEB, OR A BEAM WEB OVER A COLUMN, ARE CONNECTED SHARING COMMON CONNECTION HOLES, AT LEAST ONE BOLT WITH ITS WRENCH-TIGHT NUT SHALL REMAIN CONNECTED TO THE FIRST MEMBER UNLESS A SHOP-ATTACHED OR FIELD-ATTACHED SEAT OR EQUIVALENT CONNECTION DEVICE IS SUPPLIED WITH THE MEMBER TO SECURE THE FIRST MEMBER AND PREVENT THE COLUMN FROM BEING DISPLACED.
7. THE DRAWINGS INDICATE VARIOUS NON-PRIMARY STRUCTURAL FRAME ELEMENTS SUCH AS SHELF ANGLES, LINTELS, SUPPORT MEMBERS FOR CURTAIN WALLS OR MASONRY, AND EDGE ANGLES FOR OPENINGS AND PERIMETER CONDITIONS WHICH ARE INTENDED TO SUPPORT OR BE COORDINATED WITH MATERIALS FURNISHED BY OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE FRAMING AND FOR MEETING THE TOLERANCES REQUIRED BY OTHER TRADES, WHICH MAY BE MORE STRINGENT THAN A.I.S.C. TOLERANCES FOR STRUCTURAL STEEL. WHERE THESE NON-PRIMARY STRUCTURAL FRAME ELEMENTS ARE INDICATED TO BE WELDED (INDICATED EITHER FIELD OR SHOP WELDED) IN THE DRAWINGS, THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR DETERMINING IF THE WELDS SHOULD BE MADE IN THE SHOP OR FIELD IN ORDER TO ACHIEVE PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE FRAMING AND FOR MEETING THE TOLERANCES REQUIRED BY OTHER TRADES.
8. SPLICING OF STRUCTURAL STEEL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER, IF NOT ALREADY SHOWN ON THE DRAWINGS.
9. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE FULLY SHOP ASSEMBLED. FIELD SPLICES FOR SHIPPING PURPOSES SHALL ONLY BE AS APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION, SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND ASSEMBLIES.
10. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS MUST CONFORM TO ASTM A325-N HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER. STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS SPECIFIED ON S-503. BOLTS SHALL BE DIRECT TENSION INDICATING BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE NUT AND SACRIFICIAL SPLINES. HEX NUTS MUST CONFORM TO ASTM A563 AND WASHERS MUST CONFORM TO ASTM F436.
11. ALL MOMENT CONNECTIONS SHALL BE FULL WELDED CONNECTIONS DESIGNED TO DEVELOP THE FULL CROSS-SECTION OF THE MEMBER. STIFFENER PLATES, WHERE SHOWN, ARE MANDATORY AND MAY NOT BE OMITTED. MOMENT CONNECTIONS ARE INDICATED ON THE PLANS BY A TRIANGULAR BULB ON THE END OF THE BEAM, OR BY THE LETTERS "MC". CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
12. WHERE HORIZONTAL FORCES ARE INDICATED ON PLAN AS "H=_K", THE LICENSED PROFESSIONAL ENGINEER WORKING FOR THE FABRICATOR SHALL SIZE THE CONNECTION TO TRANSFER THE HORIZONTAL FORCE IN ADDITION TO THE REQUIRED VERTICAL REACTION. SLOTTED HOLES ARE NOT PERMITTED AT CONNECTIONS WITH HORIZONTAL FORCES.
13. EMBED PLATES TO BE INSTALLED IN THE FOUNDATION AND/OR SLAB SHALL BE SUBMITTED FOR REVIEW WITH THE ANCHOR BOLTS.
14. BOLTS SHALL BE TIGHTENED BY THE AISC "SNUG TIGHT" METHOD UNLESS NOTED OTHERWISE.
15. CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
16. SHELF ANGLES SHOWN AS CONTINUOUS IN THE SECTIONS SHALL BE INSTALLED IN 20'-0" MAXIMUM LENGTHS, LEAVING A 1/4" GAP BETWEEN ENDS AND AT CORNERS. LOCATE GAPS TO MATCH MASONRY CONTROL JOINTS. AT BUILDING EXPANSION JOINT, LEAVE A GAP TO MATCH EXPANSION JOINT WIDTH.
17. CONNECT MISCELLANEOUS STEEL MEMBERS USING FILLET WELDS SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS SHOWN OTHERWISE.
18. STEEL MEMBERS SHOWN TO BE CURVED SHALL BE ROLLED IN A MANNER THAT WILL NOT CAUSE DISTORTION OR BUCKLING. SHOULD ALTERATIONS TO THE MEMBER SIZE, SUCH AS A THICKER FLANGE OR WEB, BE REQUIRED TO ENSURE THIS OUTCOME, THE ADDITIONAL STEEL SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.
19. WHERE STIFFENER PLATES ARE INDICATED ON DRAWINGS, THEY ARE REQUIRED AND SHALL BE PROVIDED AS INDICATED.
20. PROVIDE WELDED IN SPACER PLATES AT THREE FEET ON CENTER AT ALL BACK-TO-BACK CHANNELS OR DOUBLE ANGLES.
21. BEAMS WITH LATERAL BRACING ATTACHED AND WEB CONNECTIONS OF MOMENT-CONNECTED BEAMS SHALL UTILIZE SLIP CRITICAL BOLTS OR WELDED CONNECTIONS.
22. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS), IF NOTED ON STRUCTURAL PLANS OR BY THE ARCHITECT, SHALL CONFORM TO AISC 303 SECTION 10.
23. INSTALL LEDGER ANGLES FOR FASCIA BRICK SUPPORT SUCH THAT THE SWEEP OR CAMBER DOES NOT EXCEED 1/8 INCH DEVIATION FROM STRAIGHT LINE.
24. TEMPORARY SUPPORTS, BRACES, FALSE WORK, SHORES, CRIBBING OR OTHER SUPPORTS REQUIRED DURING ERECTION TO KEEP STRUCTURAL STEEL SECURE, SUPPORTED, PLUMB, AND IN ALIGNMENT SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR AND STEEL ERECTOR. THESE TEMPORARY SUPPORTS SHALL SECURE THE STRUCTURAL STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST ALL LATERAL AND VERTICAL LOADS, INCLUDING BUT NOT LIMITED TO THOSE RESULTING FROM WIND, SEISMIC, ERECTION OPERATIONS AND THE WEIGHT OF THE STRUCTURE AND SUPPORTED ELEMENTS. ALL TEMPORARY SUPPORTS SHALL REMAIN IN PLACE DURING CONSTRUCTION UNTIL THE PERMANENT STRUCTURAL STEEL, CONNECTIONS, FLOOR DECKS AND BRACING ELEMENTS INDICATED IN THE CONTRACT DOCUMENTS ARE COMPLETE.

ETV: DELETE OR SELECT AND MODIFY NOTE AS REQUIRED IF THERE ARE ANY SLIP CRITICAL CONNECTIONS SUCH AS IN SEISMIC ZONES. THE LOCATIONS OF FULLY TENSIONED BOLTS MUST BE CLEAR IN THE NOTES OR DRAWINGS. THE CODES GENERALLY REQUIRE FASTENERS IN SEISMIC LOAD RESISTING SYSTEMS TO BE SLIP CRITICAL.

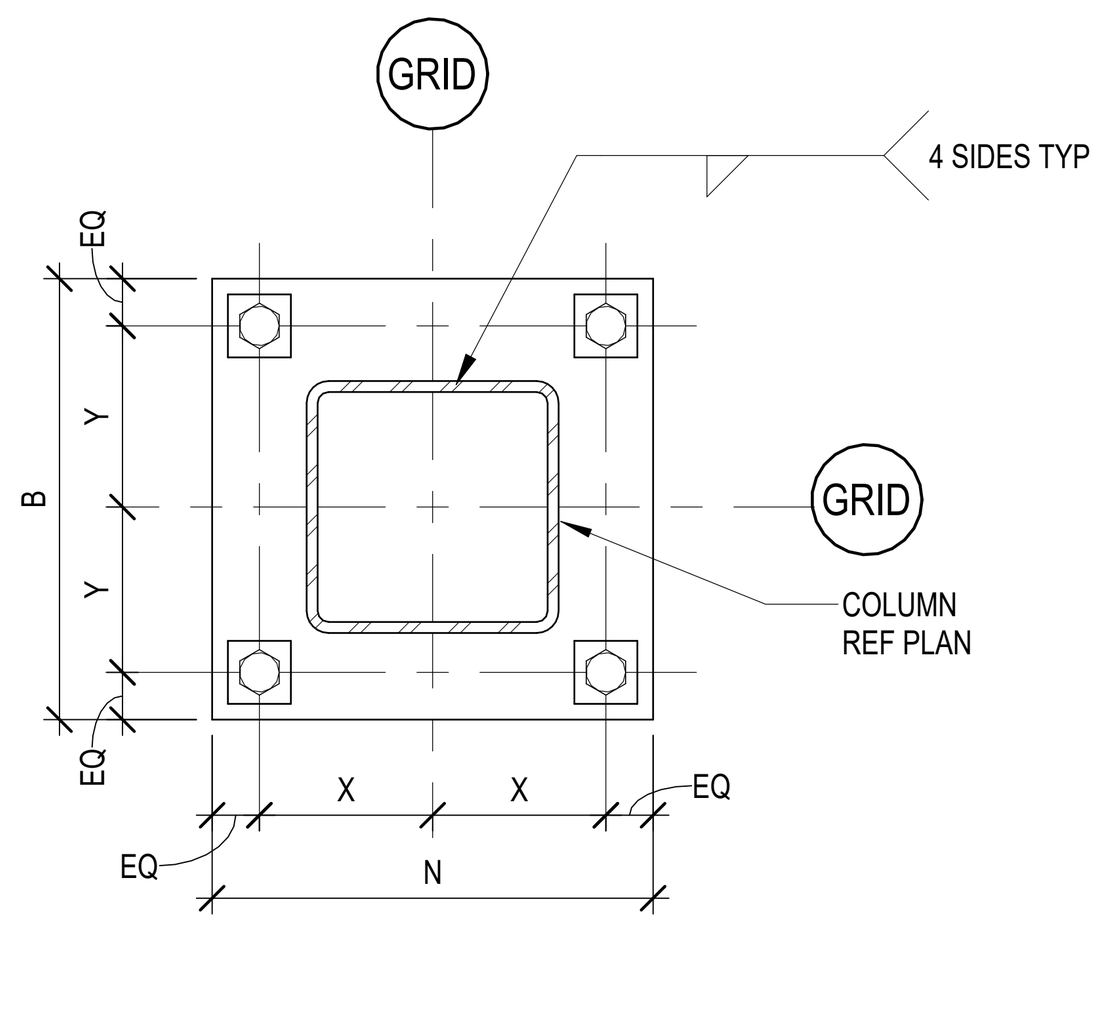
WELDING:

1. ALL WELDING MUST CONFORM TO THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STANDARDS, AND SHALL CONFORM TO THE STANDARDS OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION. ALL WELDERS MUST BE CERTIFIED IN ACCORDANCE WITH AWS D1.1. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.
2. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX. ELECTRODES FOR MOMENT CONNECTIONS SHALL BE CLASS E7018 WITH A CHARPY TOUGHNESS OF AT LEAST 20 FT-LBS AT -20 DEGREES FAHRENHEIT.
3. ALL MISCELLANEOUS WELDS SHALL BE MINIMUM SIZE FILLET ALL AROUND AND MUST BE IN ACCORDANCE WITH AISC. WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. COLUMN BASE PLATES, STIFFENER PLATES AND CAP PLATES SHALL BE WELDED ALL AROUND.
4. HEADED STUDS SHALL BE WELDED TO EMBED PLATES BY A METHOD IN WHICH THE CONNECTION CAN DEVELOP THE FULL TENSION AND SHEAR CAPACITY OF THE STUD.

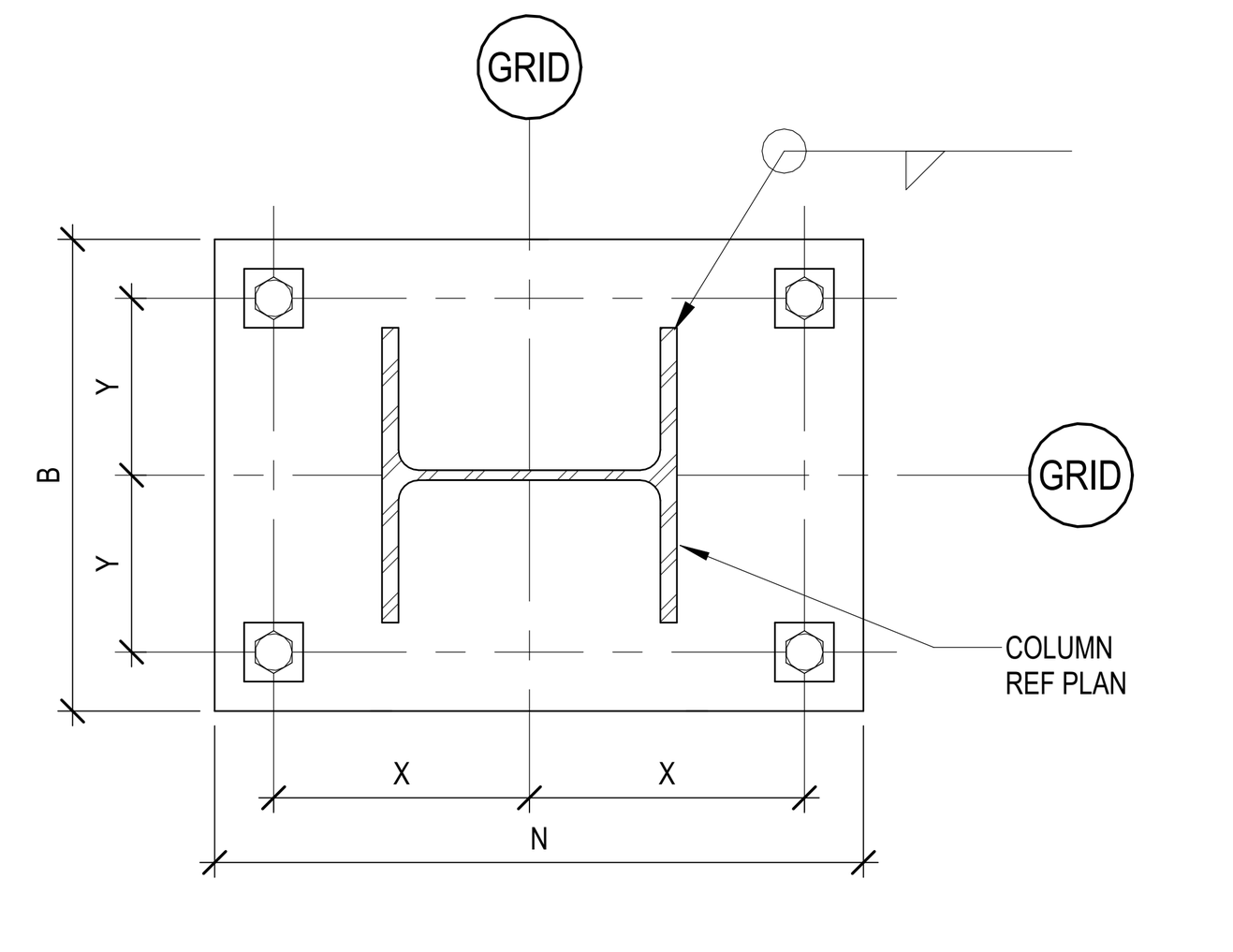
BASE PLATE NOTES:

1. ALL ANCHOR RODS SHALL BE F1554 GRADE 55 UNLESS NOTED OTHERWISE.
2. SIZE WELDS PER AISC MINIMUM FILLET REQUIREMENTS, 5/16" MINIMUM.
3. UNLESS NOTED OTHERWISE, ALL ANCHOR ROD NUTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
4. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES.
5. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
6. NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES:

   ALL GROUT USED UNDER STEEL COLUMN BASE PLATES OR BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT COMPOUND CONFORMING TO ASTM C1090 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621. THE GROUT SHALL HAVE A MINIMUM STRENGTH OF 6,000 PSI WHEN BEARING ON 3,000 PSI CONCRETE OR LESS, A STRENGTH OF 8,000 PSI WHEN BEARING ON CONCRETE BETWEEN 3,000 AND 4,000 PSI, AND, UNLESS NOTED OTHERWISE ON THE DRAWINGS, A STRENGTH OF 8,000 PSI WHEN BEARING ON CONCRETE GREATER THAN 4,000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED.



TYPE 1 HSS BASE PLATE
NTS



TYPE 2 WIDE FLANGE BASE PLATE
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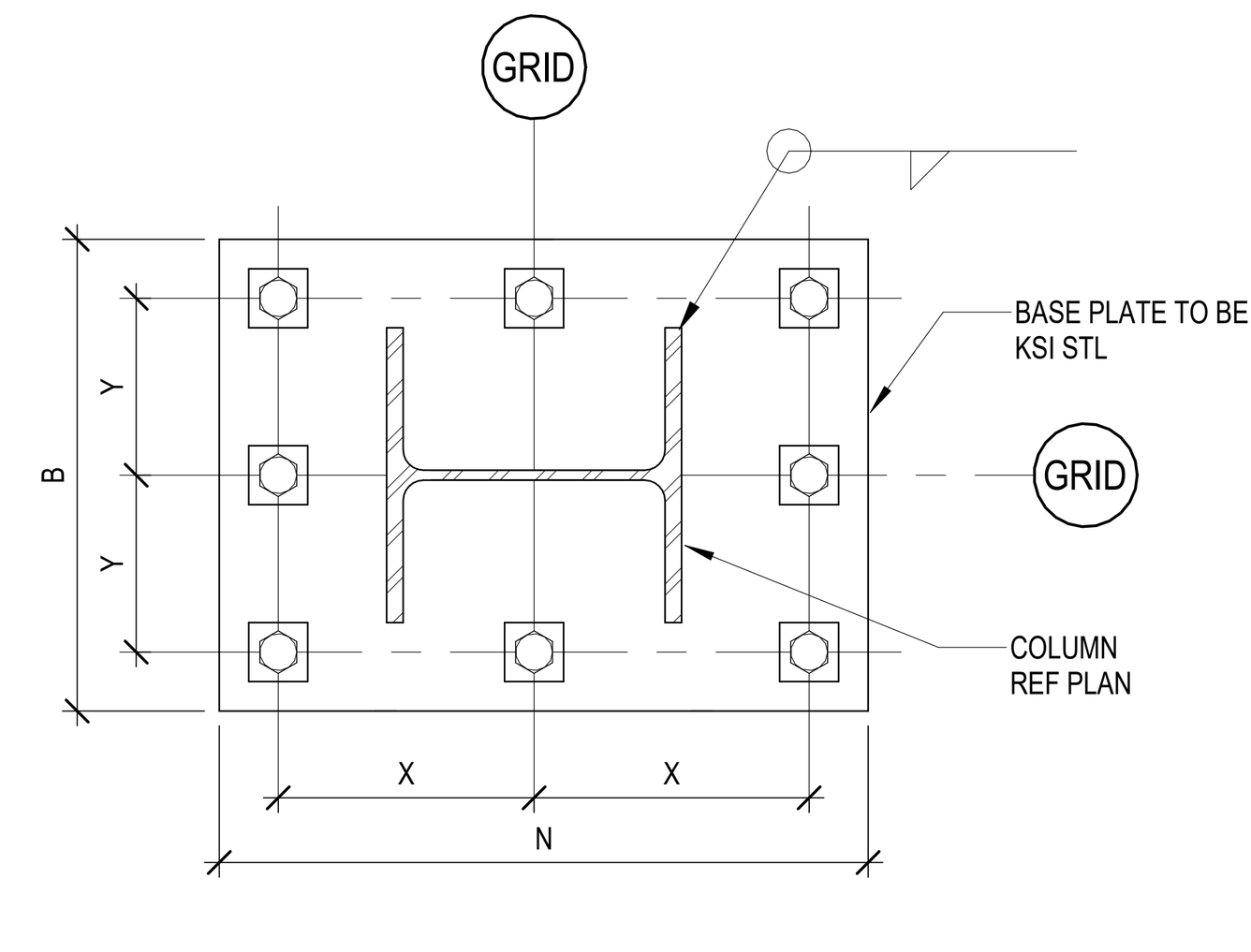

TYPE 3 WIDE FLANGE MOMENT BASE PLATE
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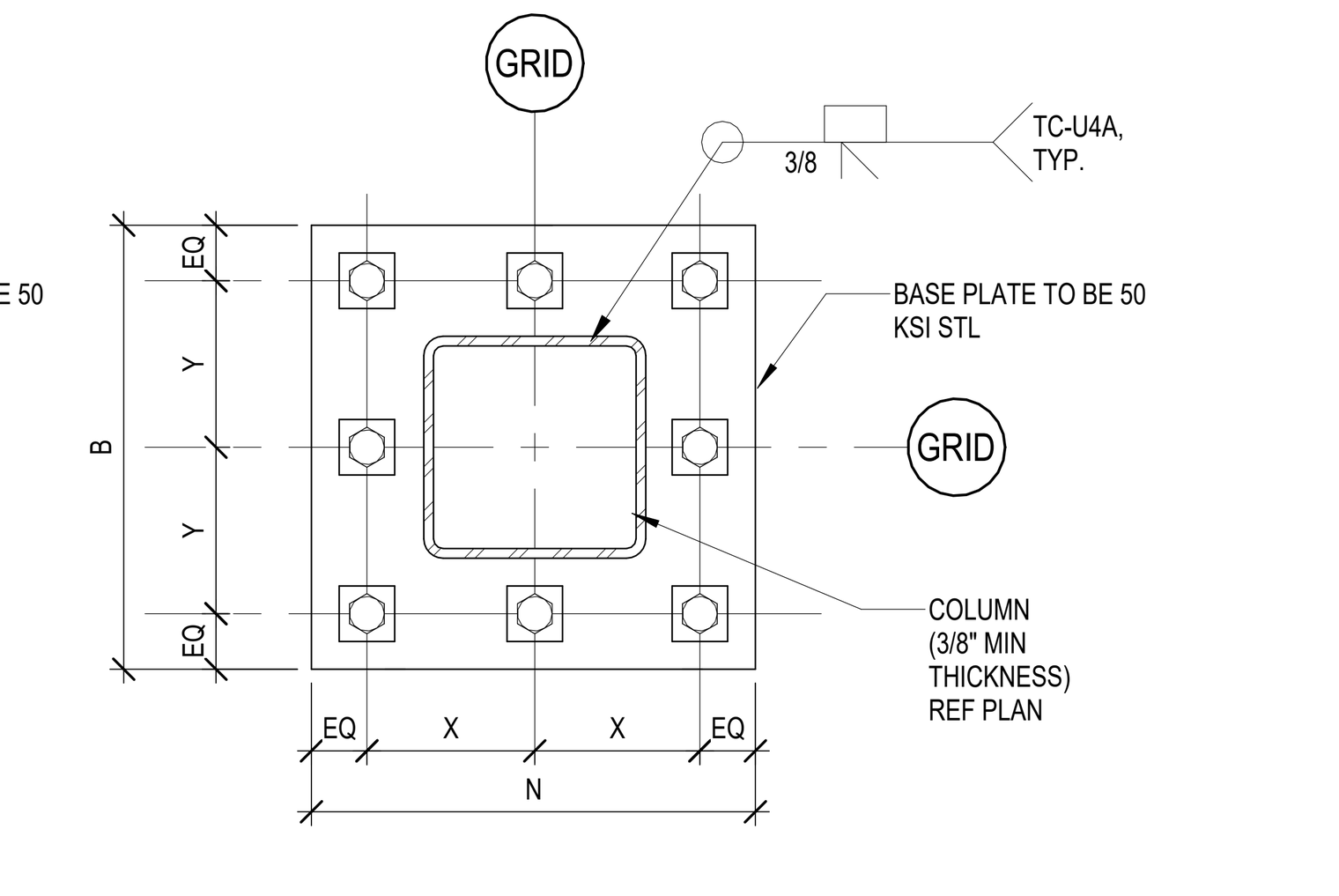

TYPE 4 MOMENT BASE PLATE
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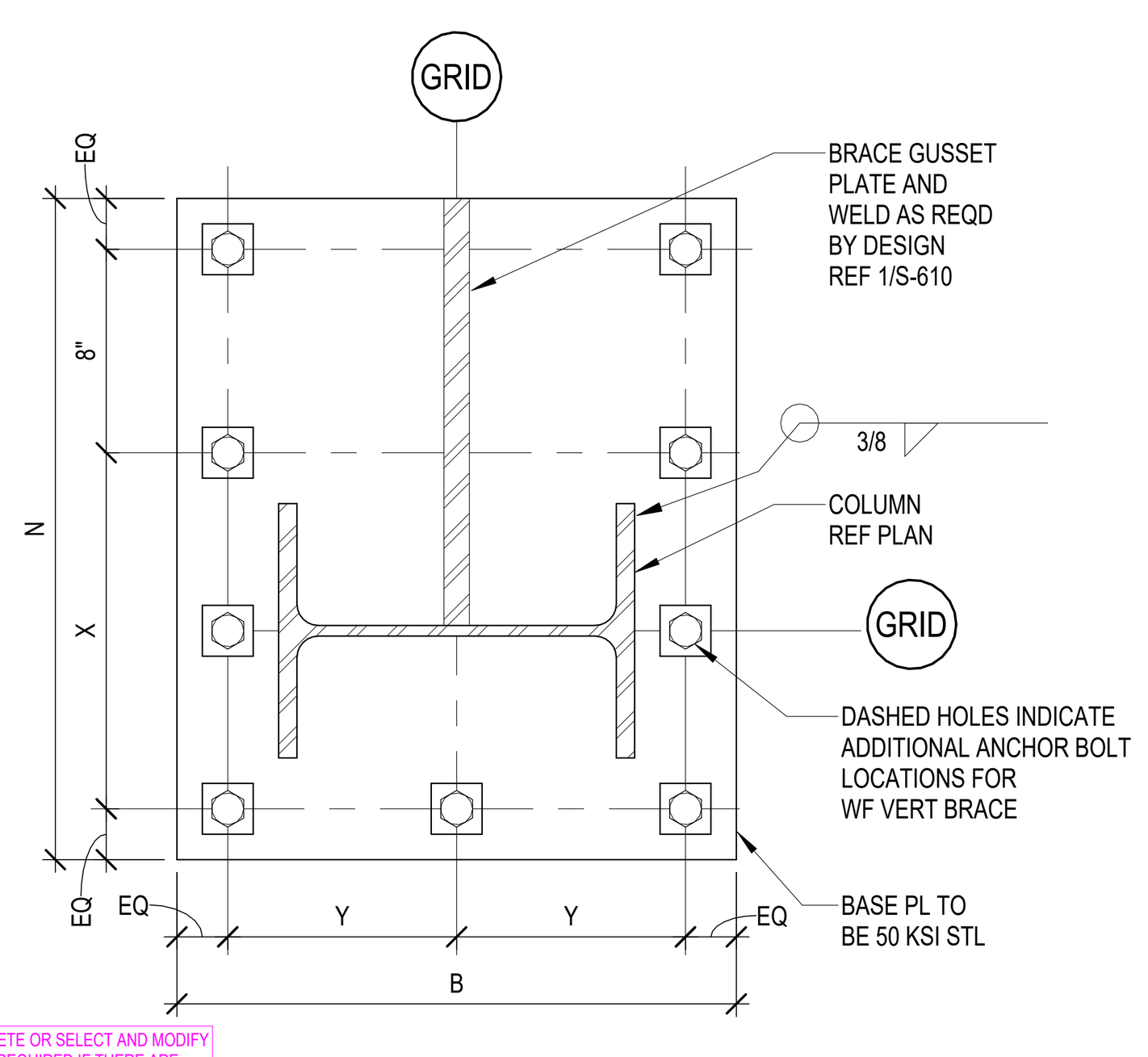

TYPE 5 BRACE BASE PLATE
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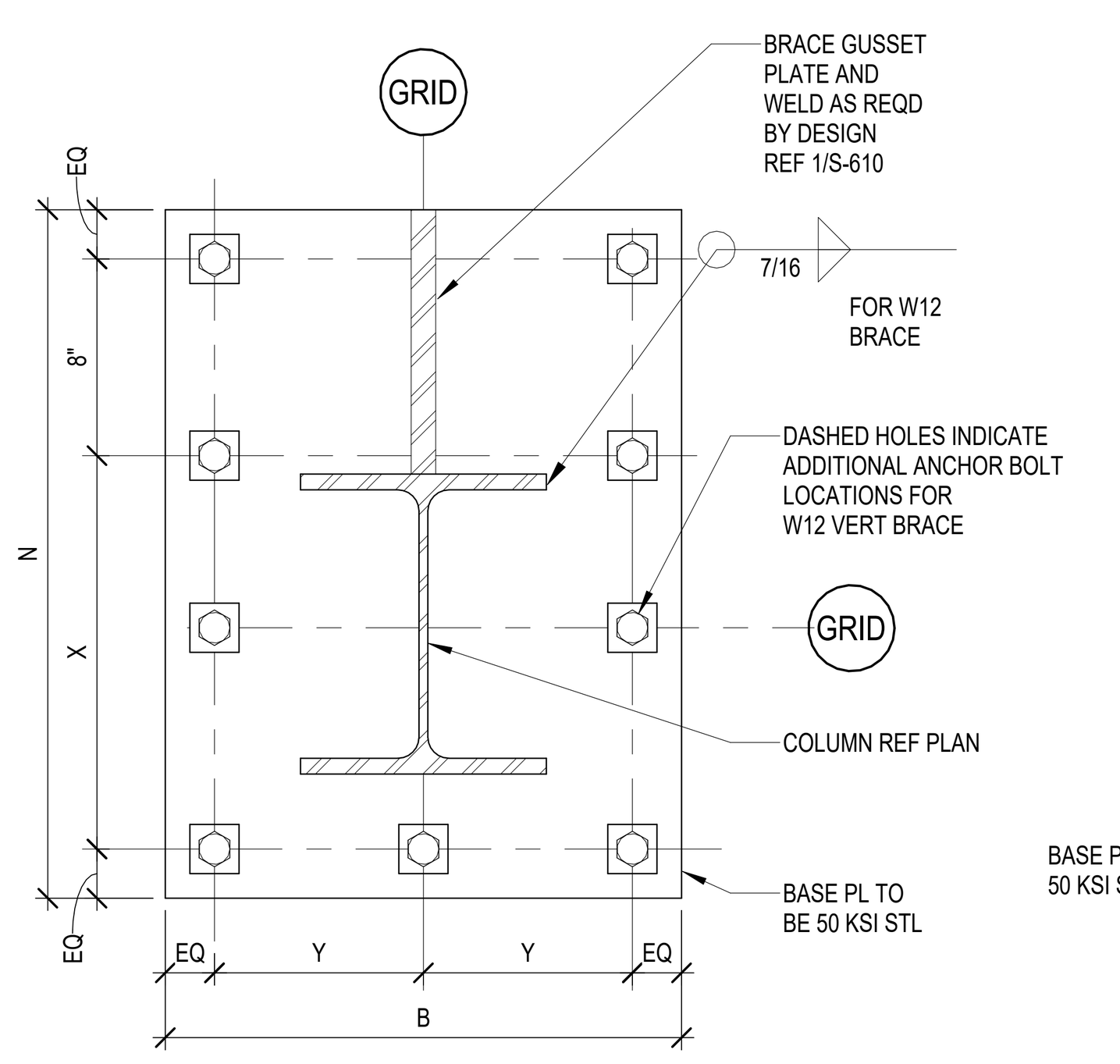

TYPE 6 BRACE BASE PLATE
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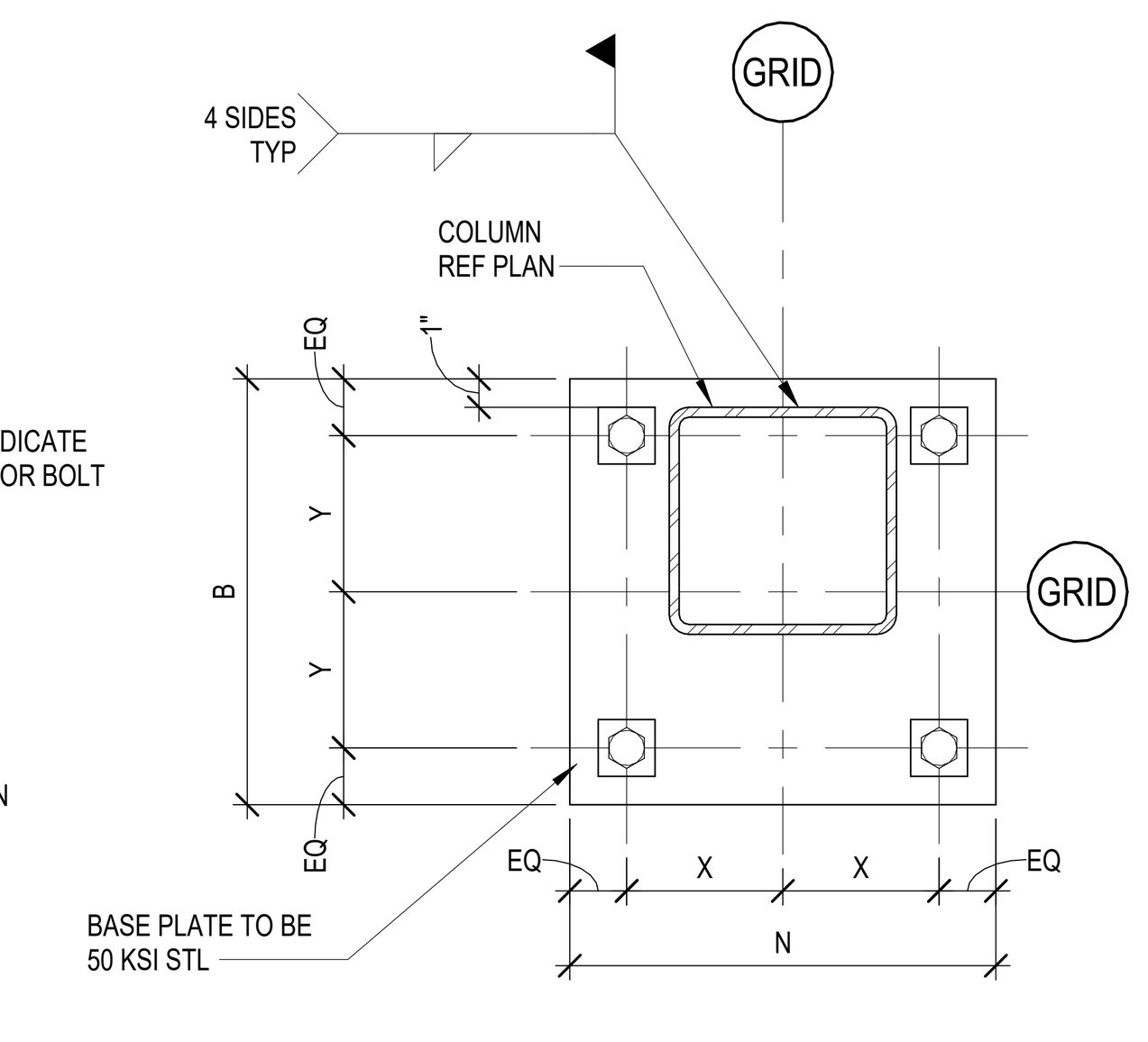

TYPE 7 HSS BASE PLATE
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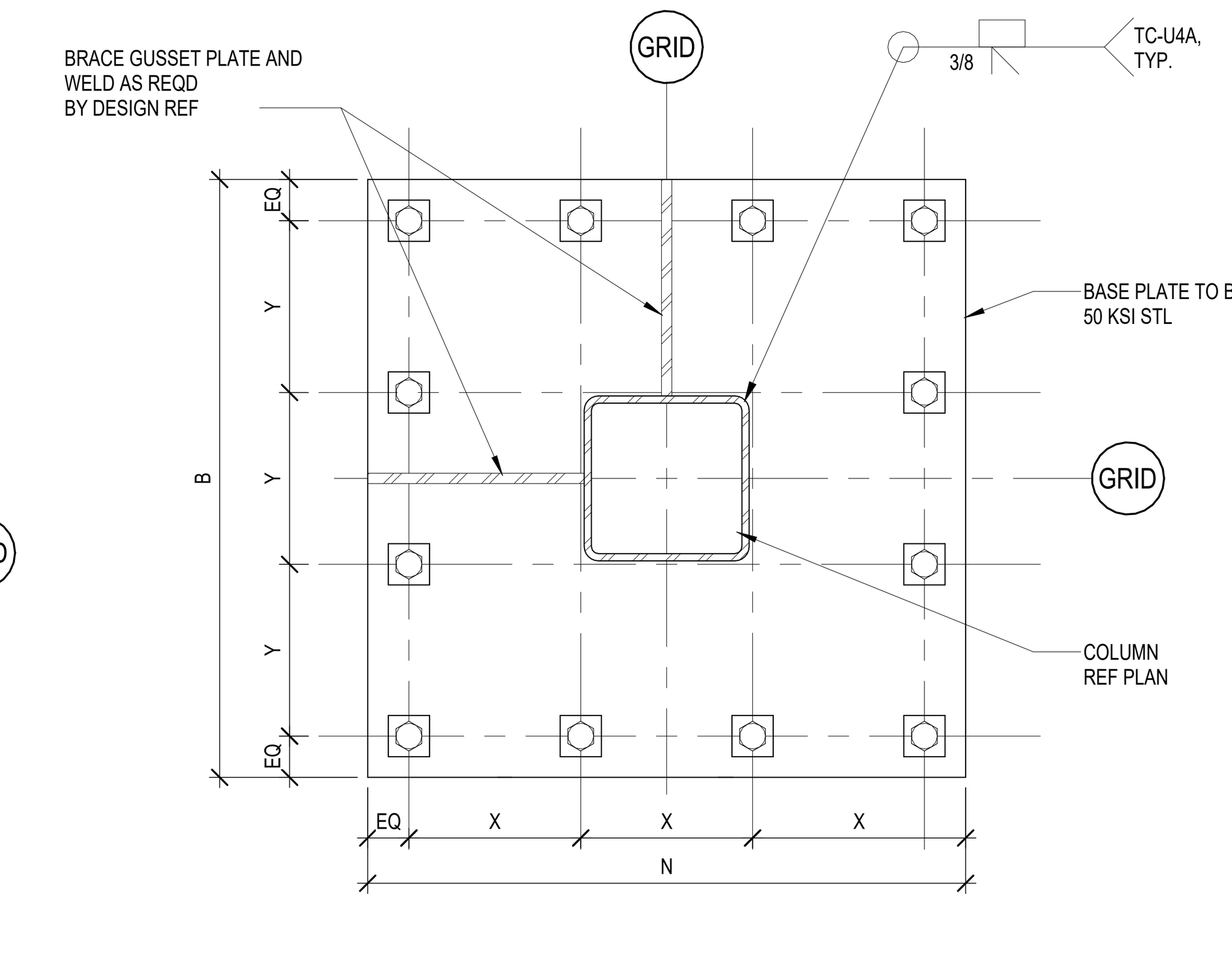


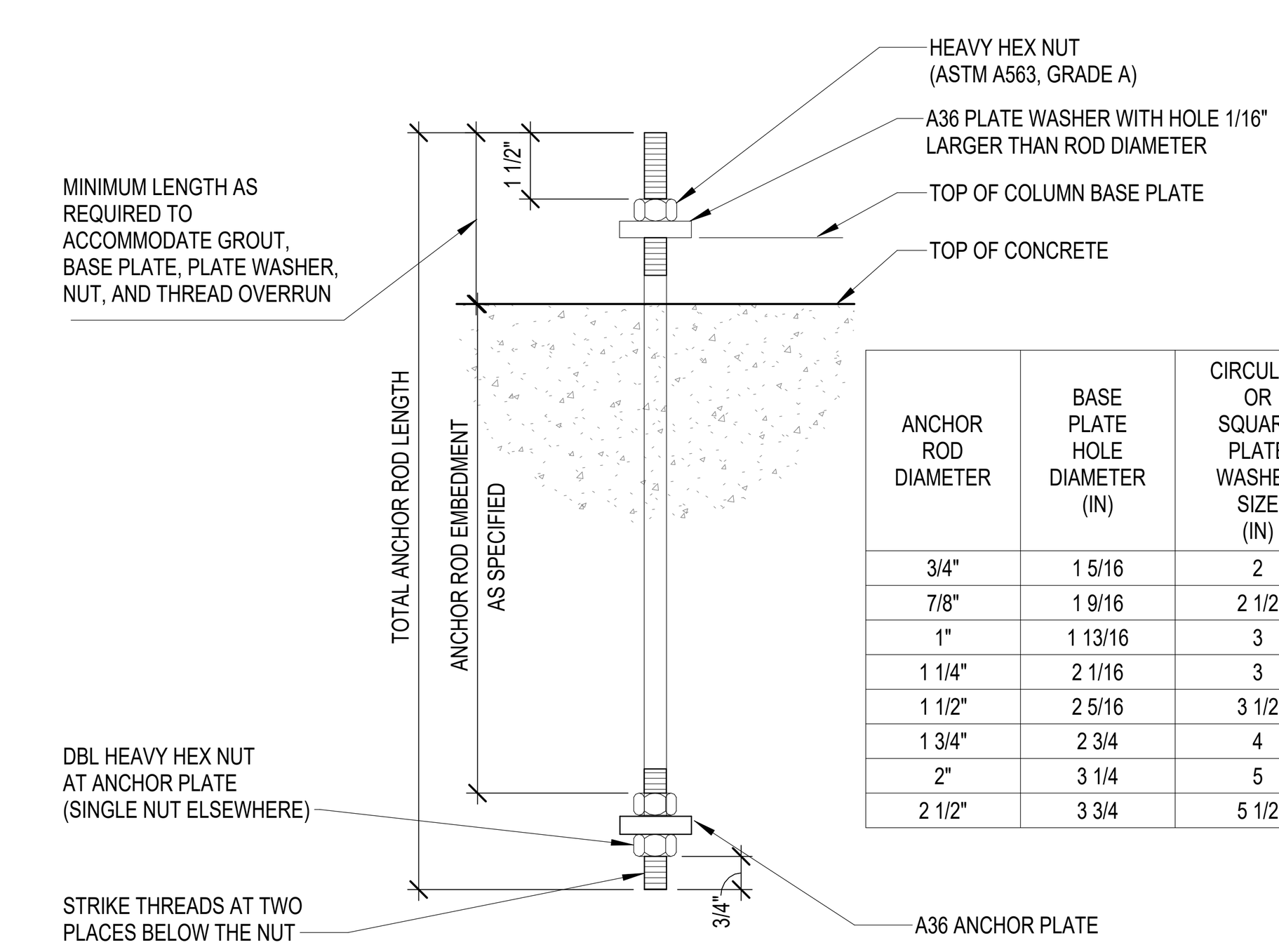
TYPE 8 VERTICAL BRACE BASE PLATE
NTS

BASE PLATE SCHEDULE

MARK	COLUMN SIZE	BASE PLATE TYPE	BASE PLATE DIMENSIONS: N LENGTH (IN)	B WIDTH (IN)	T THICKNESS (IN)	X (IN)	Y (IN)	ANCHOR RODS: NUMBER	DIA (IN)	EMBED LENGTH (IN)	ANCHOR ROD GRADE	NOTES
-	HSS5X5	1	12	12	1	4	4	4	3/4	18	36	-
-	HSS6X6 FIXED BP	1	14	14	1	4 1/2	4 1/2	4	3/4	18	36	-
-	HSS8X8	1	16	16	1 1/4	6	6	4	1	18	36	-
-	HSS10X10	1	19	19	1 1/2	7	7	4	1 1/4	18	36	-
	HSS8X8 FIXED BP	4	19	19	1 1/2	7	7	8	1 3/4	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W10X54	2	18	16	1 1/2	7	6	4	1	18	36	-
-	W12X79 W12X96 W12X120	2	22	20	1 3/4	8 1/2	7	4	1 1/4	18	36	BASE PLATE TO BE 50 KSI STEEL
-	W14X145	3	26	24	2 1/4	10 1/2	9 1/2	8	1 1/2	18	36	BASE PLATE TO BE 50 KSI STEEL
-	W14X283	3	26	26	2 1/2	10	10	8	1 1/2	20	105	BASE PLATE TO BE 50 KSI STEEL
-	W12 BRACE	5 OR 6	32	24	2	18	9	9	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W10 BRACE 2-DIRECTIONS	8	31	31	2	8	8	12	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W12 BRACE 2-DIRECTIONS	8	31	31	2	8	8	12	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W10 FIXED BP	3	23	21	1 3/4	8 1/2	7 1/2	8	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W12 FIXED BP	3	25	23	2	9 1/2	8 1/2	8	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W14 FIXED BP	3	28	26	2 1/4	11	10	8	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W14 BRACE	5 OR 6	34	27	2 1/2	20	10 1/2	9	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL
-	W14 BRACE 2-DIRECTIONS	8	31	31	2 1/2	8	8	12	1 1/2	18	105	COMPLETE JOINT PENETRATION REQUIRED BASE PLATE TO BE 50 KSI STEEL

NOTES:

1. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES.
3. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
4. MINIMUM GROUT THICKNESS PER GROUT THICKNESS SCHEDULE.
5. SIZE WELDS PER AISC MINIMUM FILLET REQUIREMENTS, 5/16" MINIMUM.



ANCHOR ROD DIAMETER	BASE PLATE HOLE DIAMETER (IN)	CIRCULAR OR SQUARE PLATE WASHER SIZE (IN)	PLATE WASHER THICKNESS (IN)
3/4"	1 5/16	2	1/4
7/8"	1 9/16	2 1/2	5/16
1"	1 13/16	3	3/8
1 1/4"	2 1/16	3	1/2
1 1/2"	2 5/16	3 1/2	1/2
1 3/4"	2 3/4	4	5/8
2"	3 1/4	5	3/4
2 1/2"	3 3/4	5 1/2	7/8

GROUT THICKNESS SCHEDULE

ANCHOR BOLT SIZE (DIA.)	MINIMUM GROUT THICKNESS
LESS THAN OR EQUAL TO 1 1/4"Ø	2"
GREATER THAN 1 1/4"Ø	3"

NOTES:

1. REFER TO SPECIFICATIONS AND GENERAL NOTES FOR GROUT REQUIREMENTS.
2. GROUT MAY BE BEVELED OR FORMED BUT SHALL EXTEND A MIN OF 1 1/2" BEYOND FACE OF BASE PLATE.

1 COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE
NO SCALE

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

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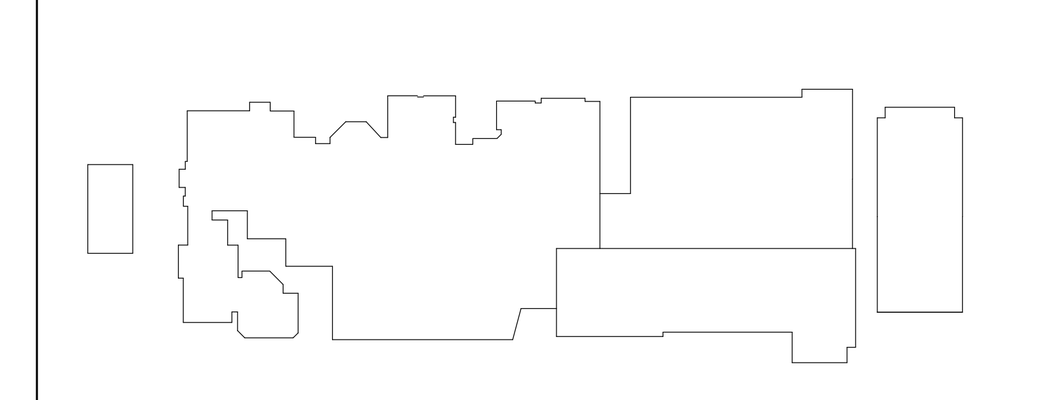
Ph: (800)248-3674
www.kubalaengineers.com
TX. REG. NO. F-23612



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL STEEL NOTES AND TYP DETAILS

S-500

GENERAL STEEL NOTES AND TYP DETAILS
S-500
FOR BLUEBEAM LABELING/OCR:

0"
1"

Plot Stamp:
12/5/2025 11:52:31 AM

GENERAL INFO.:

1. FOR ANY STEEL BEAM OR COLUMN THAT DOES NOT MEET THE MINIMUM SIZE REQUIRED,DUE TO THE U.L. DESIGN NUMBER (SELECTED BY THE ARCHITECT), THE THICKNESS OF THE SPRAYED FIRE PROTECTION MATERIAL MUST BE INCREASED AS REQUIRED BY THE FORMULA SHOWN IN THE U.L. FIRE RESISTANCE DIRECTORY (LATEST EDITION).

2. AT BRICK SUPPORT ANGLES, DURING CONSTRUCTION, THE BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE. SHORING THE BRICK DURING CONSTRUCTION CAN CAUSE HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.

3. HEADED ANCHORS/STUDS SHALL BE MANUFACTURED FROM COLD DRAWN MATERIALS PER ASTM A108. ANCHORS/STUDS SHALL BE OF GRADE 50 WITH SOLID FLUX FILLED HEADS. ANCHORS/STUDS STUDS SHALL BE AUTOMATICALLY END WELDED WITH IN ACCORDANCE WITH AWS D1.1. ANCHORS/STUDS FOR EMBEDDED PLATES AND OTHER ANCHORS SHALL BE SHOP WELDED. STUDS FOR COMPOSITE BEAMS MUST BE FIELD WELDED.

4. AT BUILDINGS, WHERE SPLICED COLUMNS ARE REQUIRED, THE STEEL COLUMNS MUST BE SPLICED AT A MINIMUM OF 4'-0" ABOVE THE FINISH FLOOR. COLUMNS SHALL BE SPLICED AT EVERY OTHER LEVEL. AT WIDE FLANGE COLUMNS, PROVIDE HOLES IN THE WEBS FOR 3/4" DIAMETER SAFETY CABLES. AT TUBE OR PIPE COLUMNS, PROVIDE PLATES WITH HOLES WELDED TO THE COLUMNS FOR SAFETY CABLE CONNECTIONS. A L3x3x1/4 DECK SUPPORT ANGLE SHALL BE PROVIDED ON ALL SIDES OF THE COLUMN.

5. ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED. WITH A MINIMUM ZINC COATING CLASS OF G90, MEETING THE REQUIREMENTS OF ASTM 123, AND SHALL BE APPLIED AFTER FABRICATION. ALL FIELD WELDS SHALL REQUIRED SHALL BE GROUND SMOOTH AND TOUCHED UP WITH A ZINC RICH PAINT.

6. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL COMPLY TO OSHA 29 CFR 1926 SUBPART R, SAFETY STANDARDS FOR STEEL ERECTION.

7. THE DRAWINGS AND SPECIFICATIONS MAY NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF ALL MISCELLANEOUS METAL ITEMS INDICATED, DESCRIBED, OR IMPLIED ON THE STRUCTURAL AND/OR THE ARCHITECTURAL DRAWINGS. MISCELLANEOUS STEEL ITEMS, WITHIN AN ASSEMBLY AND NOT ATTACHED TO THE STRUCTURE, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS, WHETHER OR NOT THEY ARE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. SUCH ASSEMBLIES INCLUDE, BUT ARE NOT LIMITED TO, EXTERIOR AND INTERIOR WALL ASSEMBLIES, CEILING ASSEMBLIES, PARTITION ASSEMBLIES, SHELF AND CABINET ASSEMBLIES AND ALL OTHER SIMILAR ASSEMBLIES. ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE A MINIMUM OF L4x4x1/2", C7x9.8, 3/8" PLATE OR HSS4x4x3/8" UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.

8. THE GENERAL CONTRACTOR AND THE ELEVATOR SUPPLIER SHALL REVIEW THE STRUCTURAL DRAWINGS FOR FLOOR TO FLOOR AND FLOOR TO ROOF HEIGHTS FOR THE REQUIRED DISTANCE BETWEEN BRACE POINTS, FOR THEIR RAIL DESIGN. PROVIDE A W18x50 MINIMUM HOIST BEAM SIZE, IF NO OTHER SIZE IS PROVIDED ON THE PLANS. BRACING REQUIREMENTS FOR THE TOP OF THE RAIL, OR INTERMEDIATE RAIL BRACE POINTS, SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF BRACING IS REQUIRED BUT NOT SHOWN, PROVIDE A MINIMUM OF TS6x6X1/4 VERTICAL POST OR HANGER ATTACHED TO THE STRUCTURE WITH W8x12 BEAMS OR C7x9.8 CHANNELS SPANNING BETWEEN THE FRAMING MEMBERS. ALL MISCELLANEOUS STEEL MEMBERS REQUIRED TO ATTACH RAILS AT THE RAIL BRACE POINTS SHALL BE SUPPLIED BY THE ELEVATOR SUPPLIER. ELEVATOR MACHINE BEAM OR SHIVE BEAM LOADS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. LOADS AND LOAD LOCATIONS VARYING FROM THE LOADS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH THE STRUCTURAL ENGINEER OF RECORD. THE FRAMING AND INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS BASED ON:

   - ELEVATOR MODEL NO. PER SPEC.
   - MANUFACTURED BY PER SPEC.

   IF THE ELEVATOR MANUFACTURER AND/OR MODEL NUMBER CHANGES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REVISIONS TO THE FOUNDATIONS AND THE FLOOR AND ROOF FRAMING AS REQUIRED DUE TO THE CHANGE IN THE ELEVATOR TYPE.

IMPORTANT NOTE TO PROPOSERS:

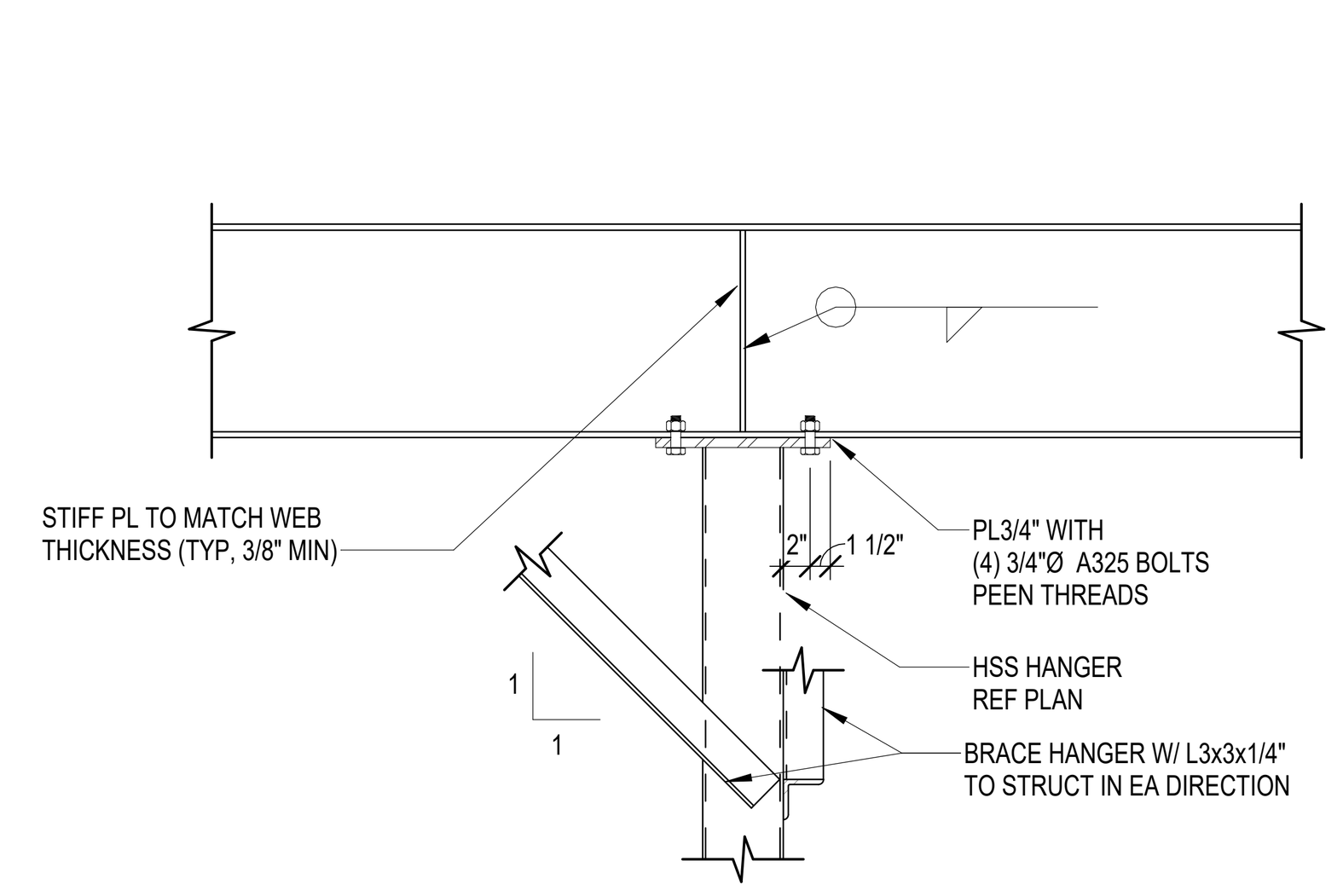
1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL SECONDARY FRAMING WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.

2. WHERE MISCELLANEOUS METAL ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

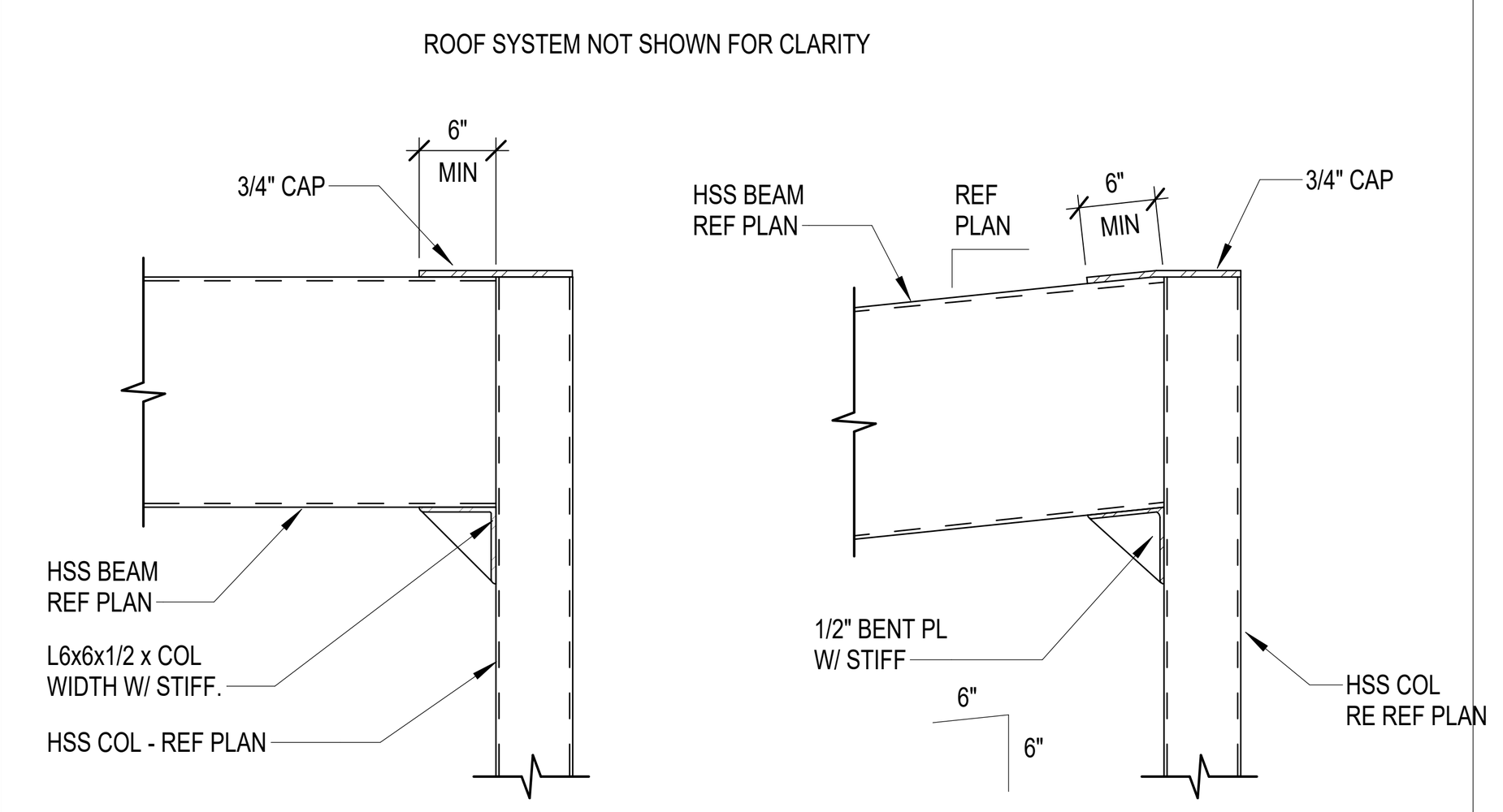
   A. ANGLES: L6X6X3/8
   B. CHANNELS: C12X20.7
   C. PLATES: 1/2" THICK
   D. ANCHOR RODS: 1 1/2" DIAMETER X 18"LONG
   E. EPOXY ANCHORS: 3/4" DIAMETER AT 48"OC MAX SPACING
   F. WIDE FLANGE BEAMS: W24X55
   G. WIDE FLANGE COLUMNS: W12X79
   H. HSS COLUMNS AND BEAMS: HSS8X8X1/2
   J. HSS BEAMS: HSS18X6X5/8
   K. VERT BRACE: HSS8X8X3/8

   THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION.

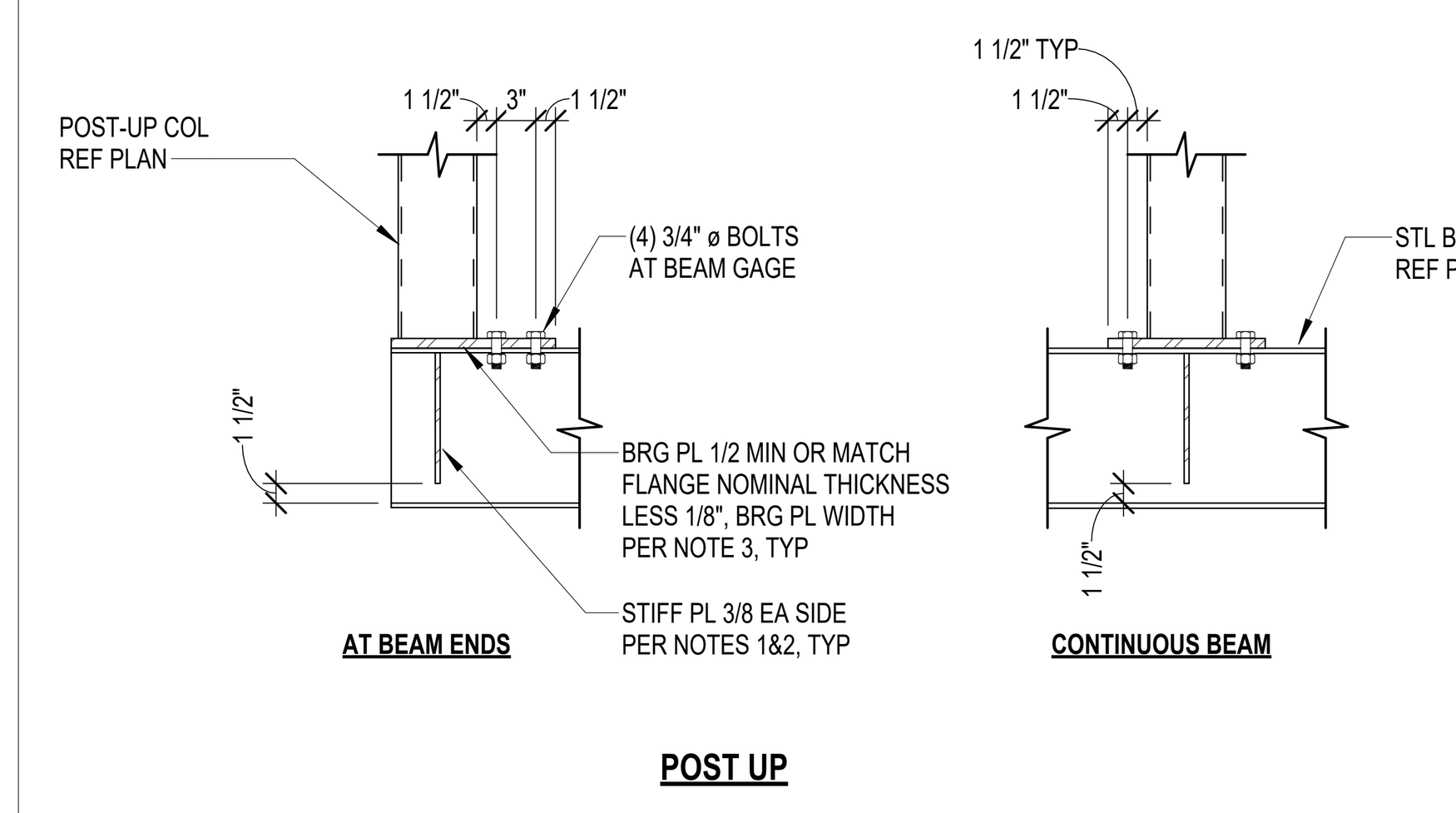
3. PROVIDE SUPPORT FOR EDGES OF ROOF AND FLOOR DECK WHETHER SHOWN ON THE DRAWINGS OR NOT. PROVIDE CONTINUOUS SCREED ANGLE OR BENT PLATE FOR SLAB EDGES.



1 TYPICAL HANGER DETAIL
NO SCALE



2 TYPICAL OUTRIGGER DETAIL
NO SCALE



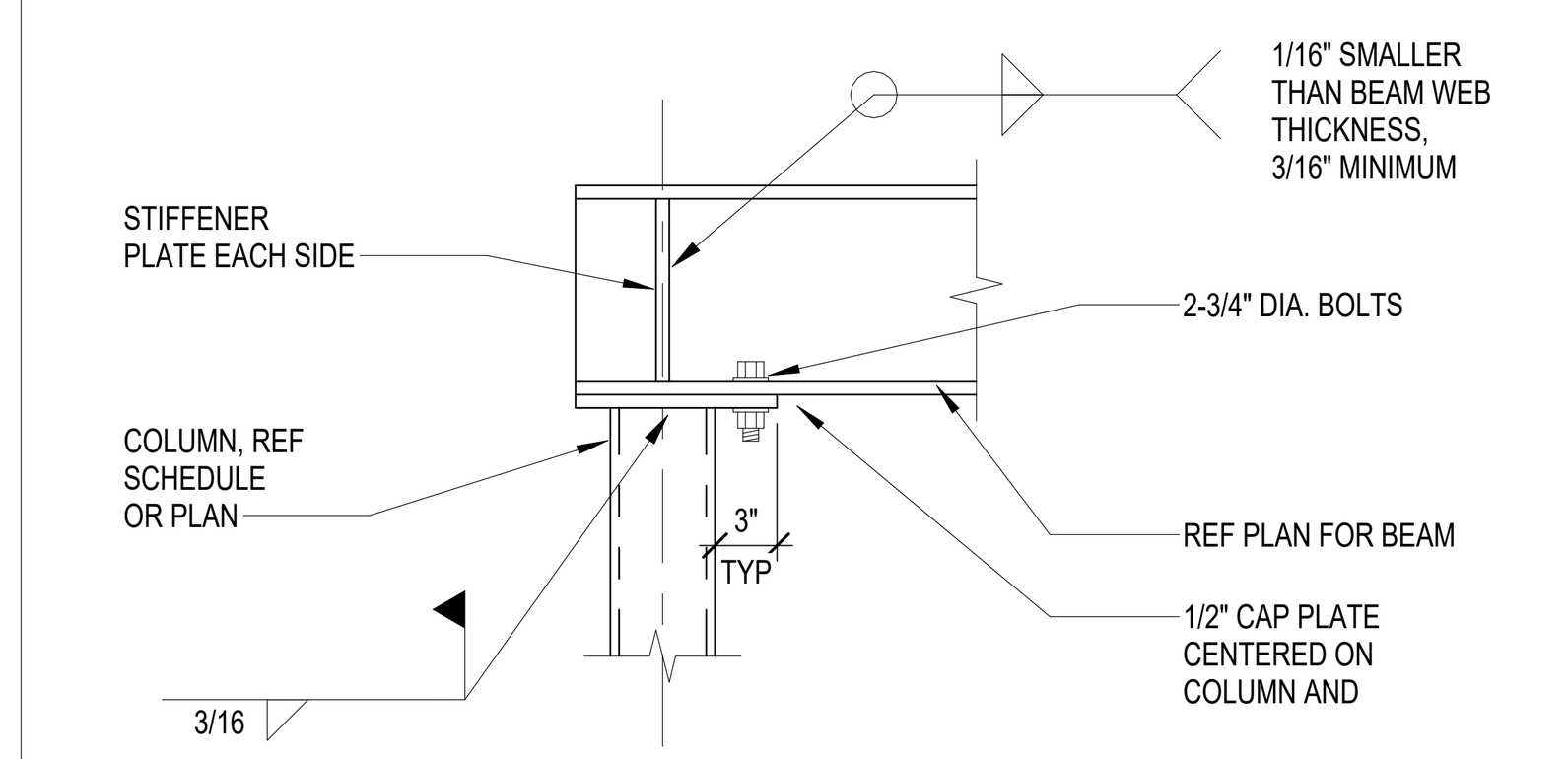
NOTES:

1. CHAMFER CORNERS OF STIFF PL ATE AS REQUIRED AT BEAM "K" REGION.
2. AT INTERSECTING BEAMS, EXTEND SHEAR TAB PER TYPICAL CONNECTION DETAIL FULL DEPTH.
3. BEARING PLATE WIDTH = BEAM FLANGE WIDTH. IF COLUMN IS WIDER THAN BEAM FLANGE, BEARING PLATE WIDTH = COLUMN WIDTH + 1".

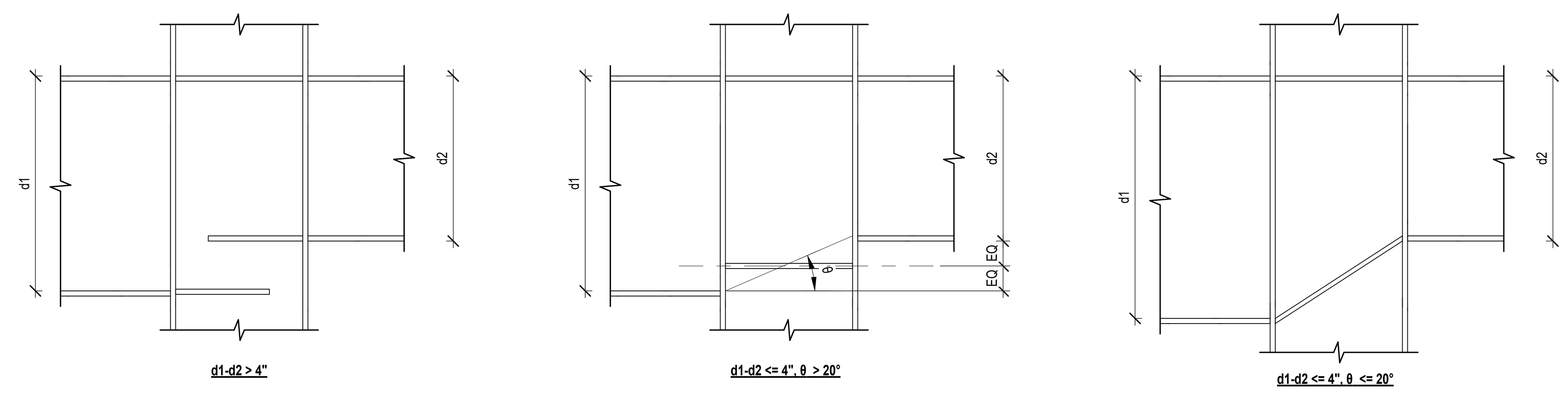
3 TYPICAL POST-UP DETAIL
NO SCALE

NOTES:

1. REF ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.
2. STIFFENER PLATE SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.

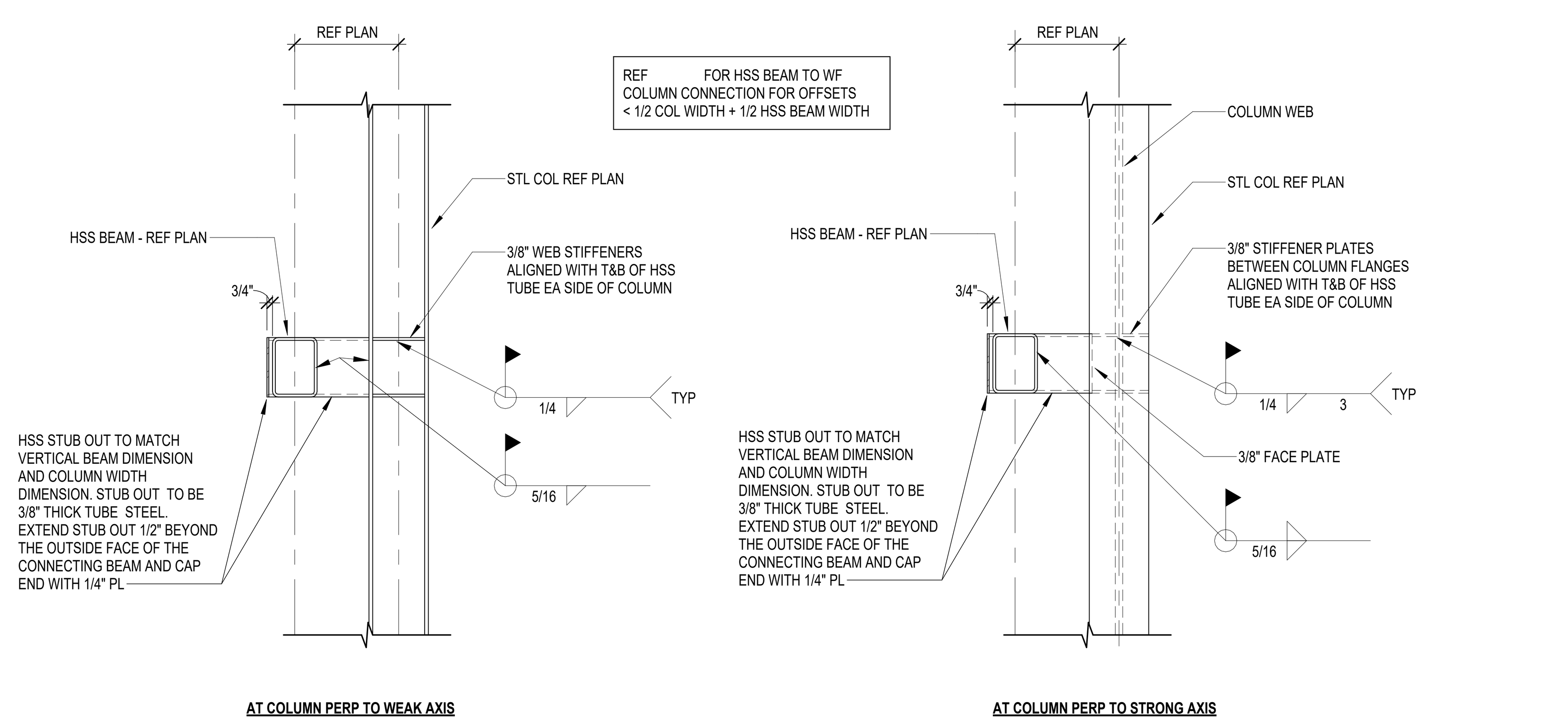


4 TYPICAL CAP PLATE - BOLTED CONNECTION DETAIL
NO SCALE

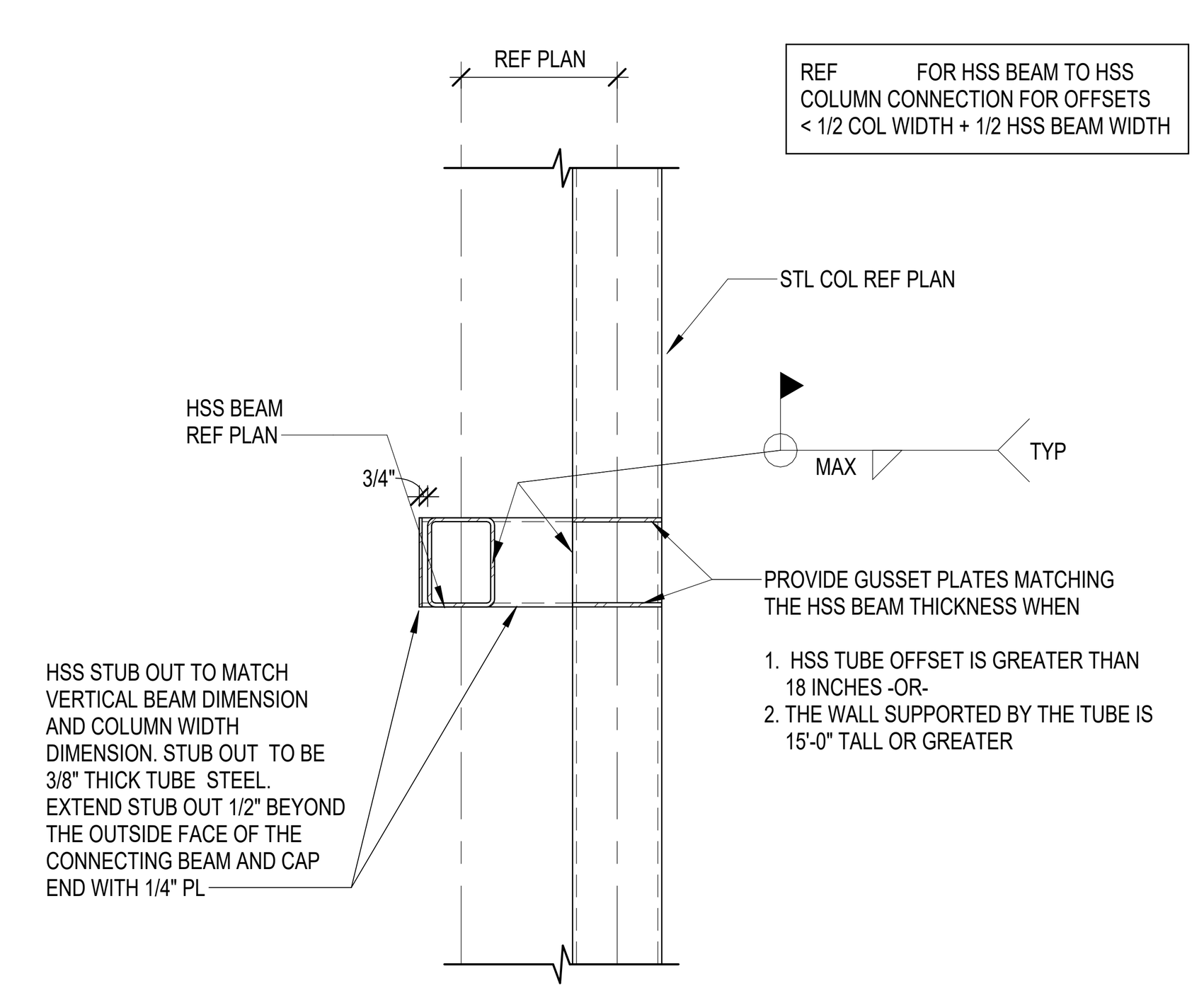


NOTES:
1. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
2. PROVIDE PREDESIGNED CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL WHERE APPLICABLE.
3. WHEN BEAM FRAMES ON ONLY ONE SIDE OF COLUMN OR WHEN BEAM REACTIONS ARE SIGNIFICANTLY DIFFERENT, STIFFEN COLUMN WEB AS REQUIRED.

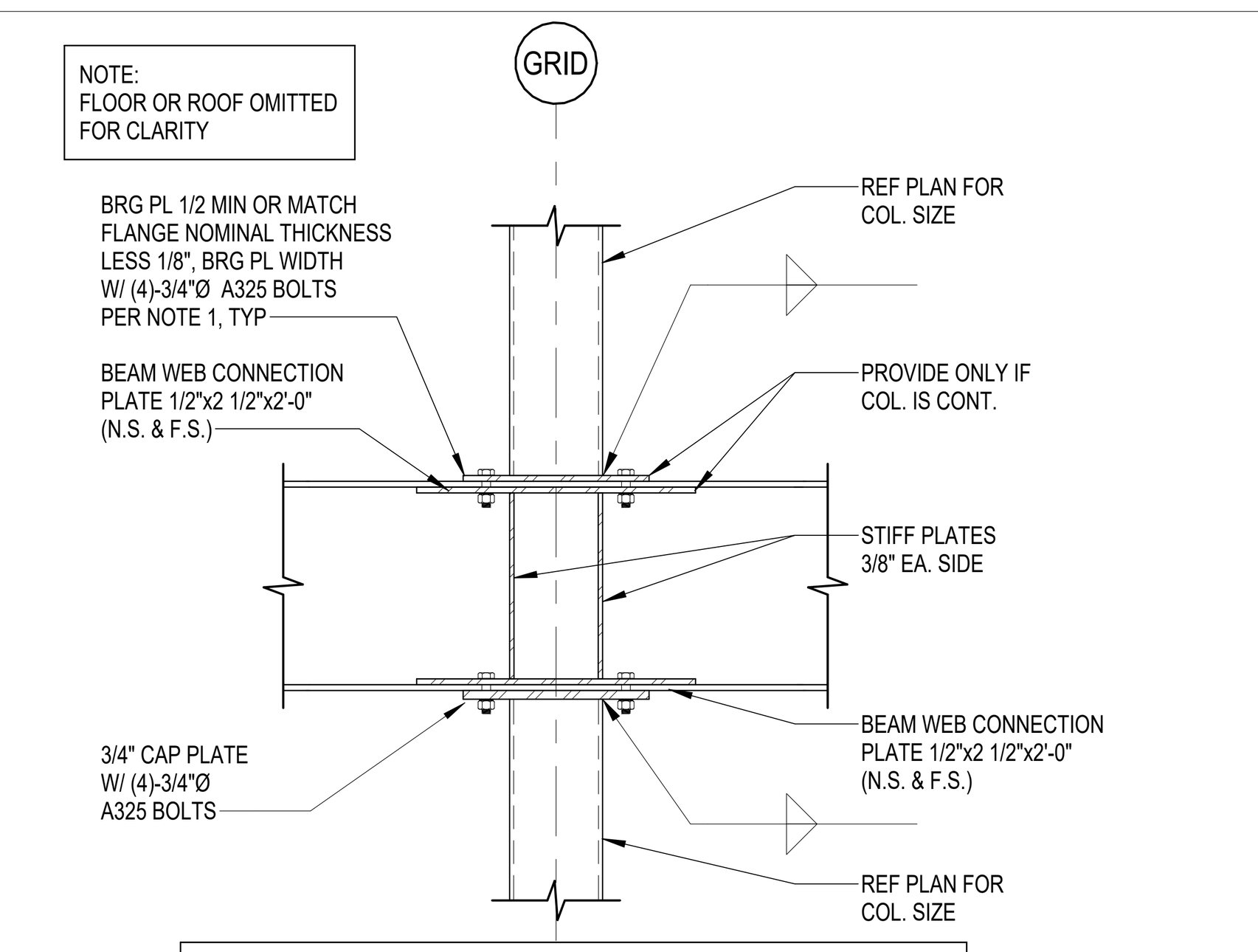
5 TYPICAL COLUMN STIFFENER ARRANGEMENT FOR OPPOSING BEAMS OF DIFFERENT DEPTHS
1 1/2" = 1'-0"



7 TYPICAL HSS BEAM TO WF COLUMN CONNECTION FOR OFFSETS > 1/2 COL WIDTH + 1/2 HSS BEAM WIDTH
NO SCALE



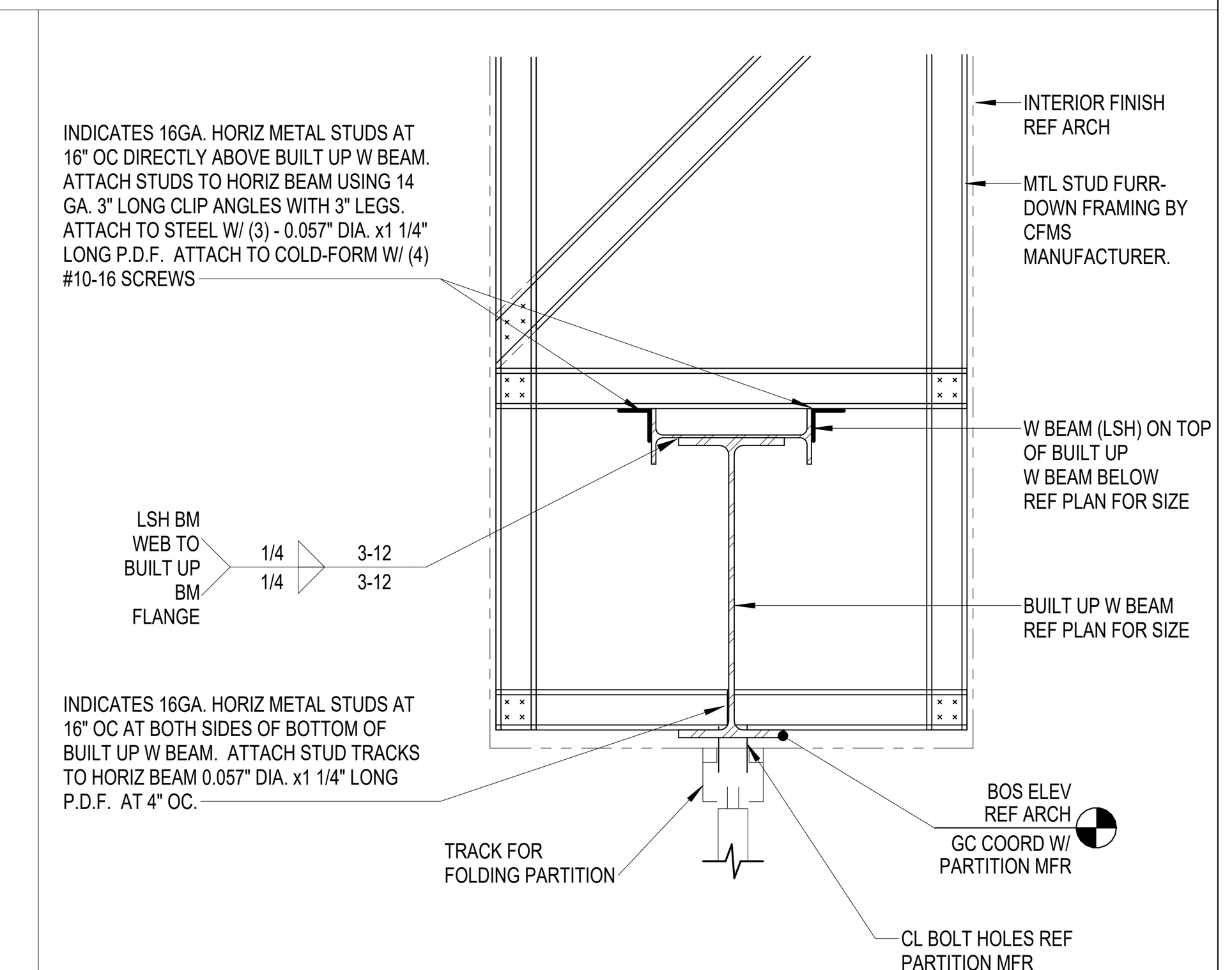
8 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION FOR OFFSETS > 1/2 COL WIDTH + 1/2 HSS BEAM WIDTH
3/4" = 1'-0"



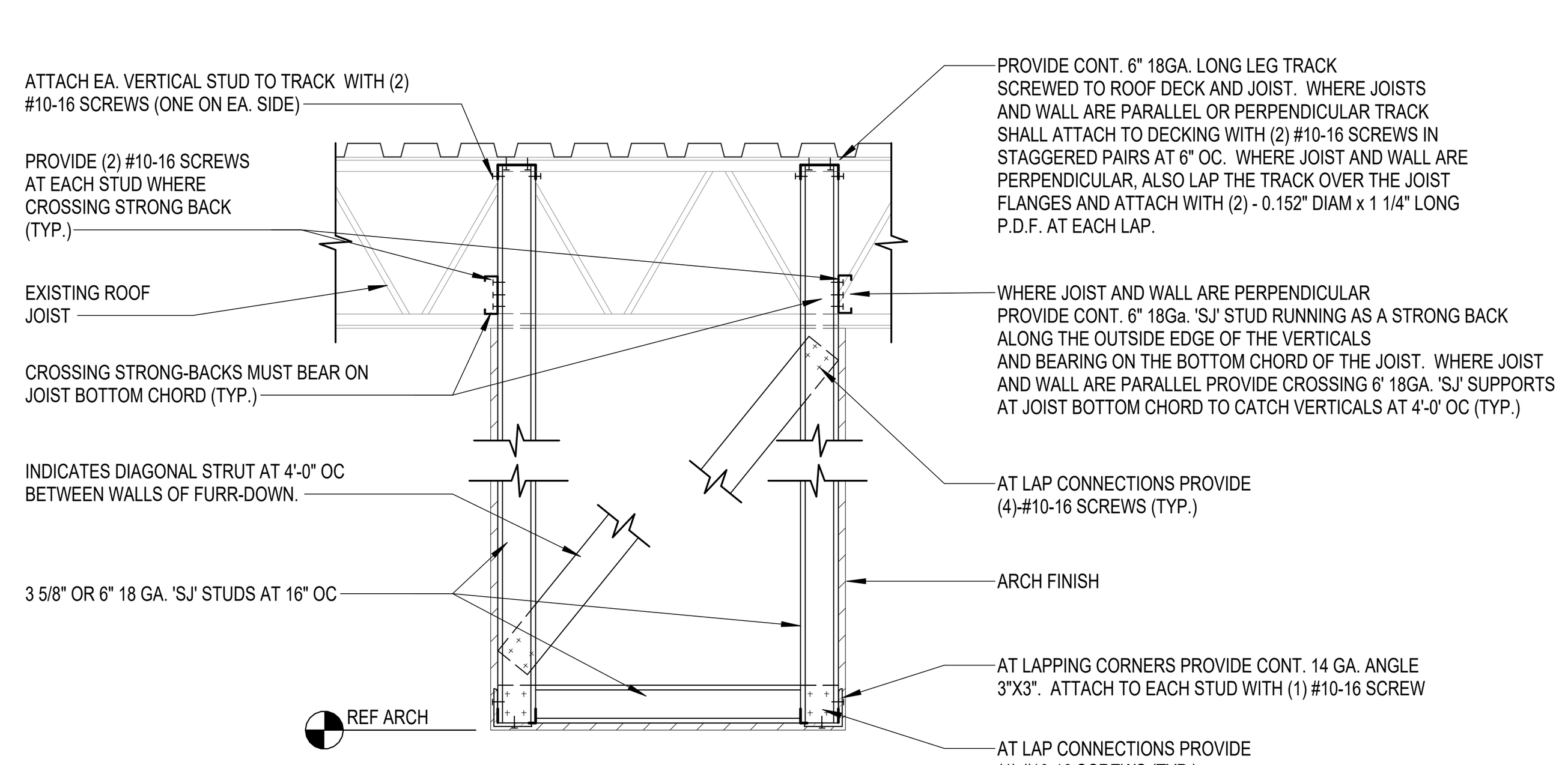
NOTES:

1. BEARING PLATE WIDTH = BEAM FLANGE WIDTH. IF COLUMN IS WIDER THAN BEAM FLANGE, BEARING PLATE WIDTH = COLUMN WIDTH + 1".
2. REF 3/S-501 AND 4/S-501 FOR INFO NOT SHOWN HERE

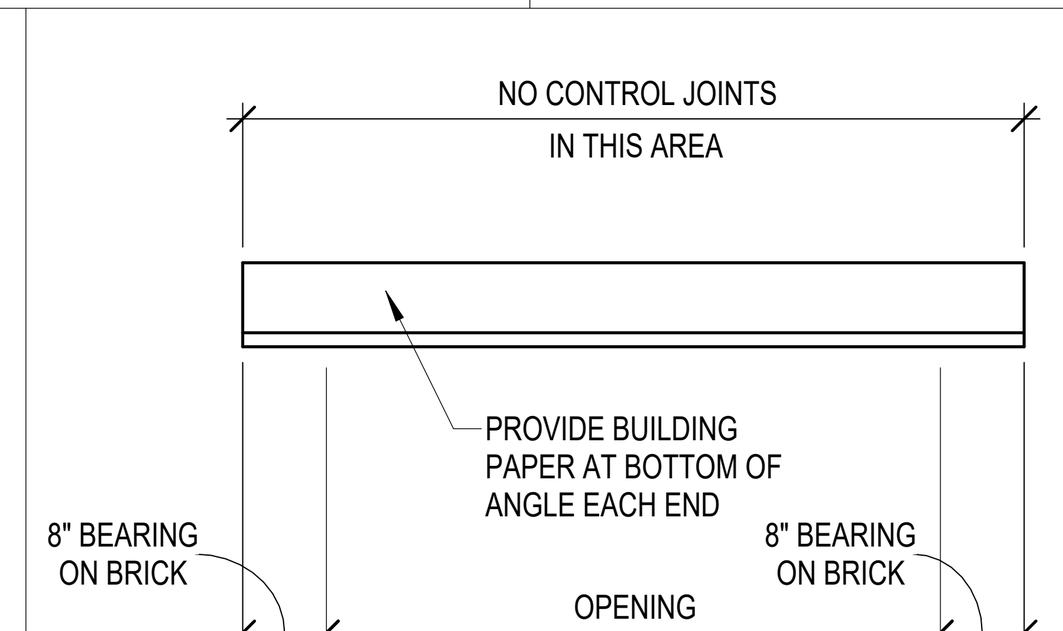
9 TYPICAL CANTILEVERED BEAM OVER COLUMN CONNECTION
3/4" = 1'-0"

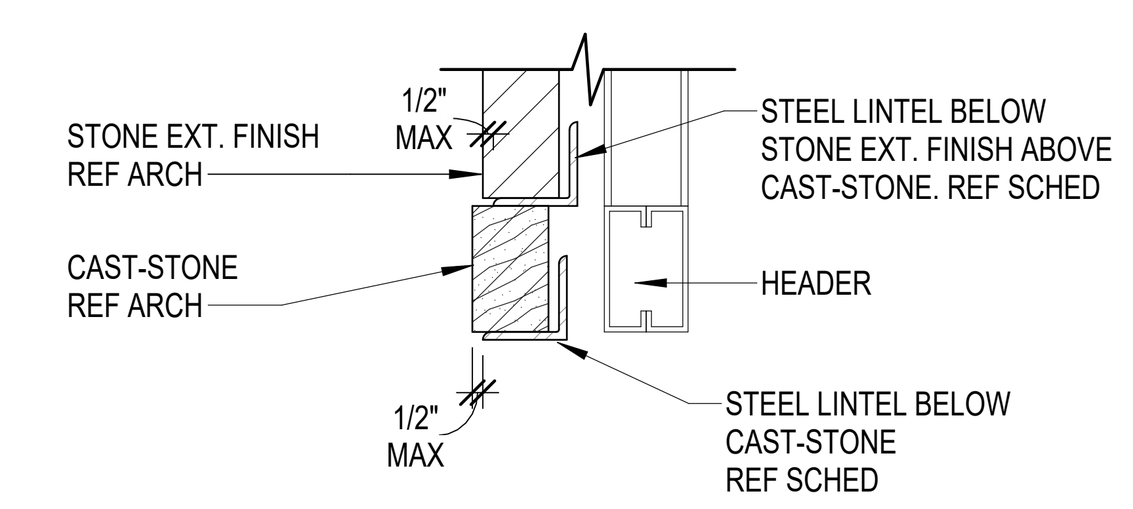


10 FOLDING PARTITION SUPPORT
NO SCALE



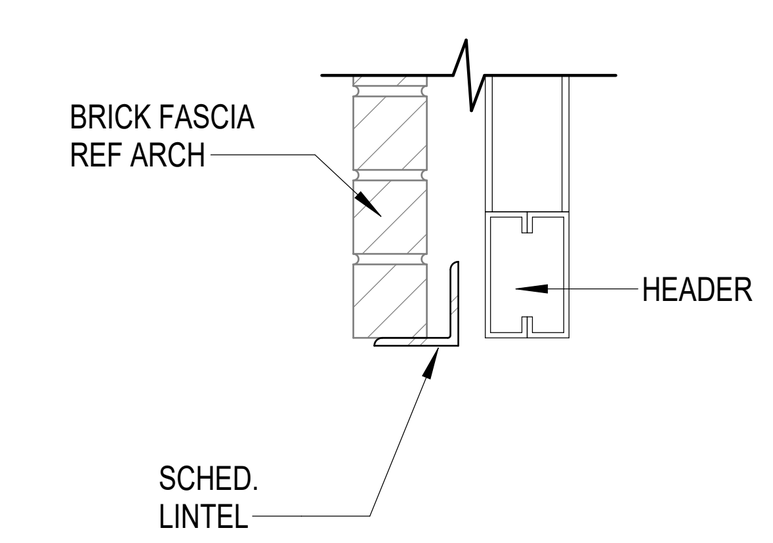
11 FUR-DOWN DETAIL
3/4" = 1'-0"





SECTION AT LINTEL SUPPORT BRICK OR STONE ABOVE CAST-STONE

CLEAR OPENING	MINIMUM ANGLE SIZE
0 TO LESS THAN 6'-0"	L 3 1/2 x 3 1/2 x 5/16 (GALV)
6'-0" TO LESS THAN 7'-0"	L 5 x 3 1/2 x 5/16 (LLV) (GALV)
7'-0" TO LESS THAN 8'-0"	L 6 x 3 1/2 x 5/16 (LLV) (GALV)
UP TO 8'-6"	L7 x 4 x 1/2 (LLV) (GALV)

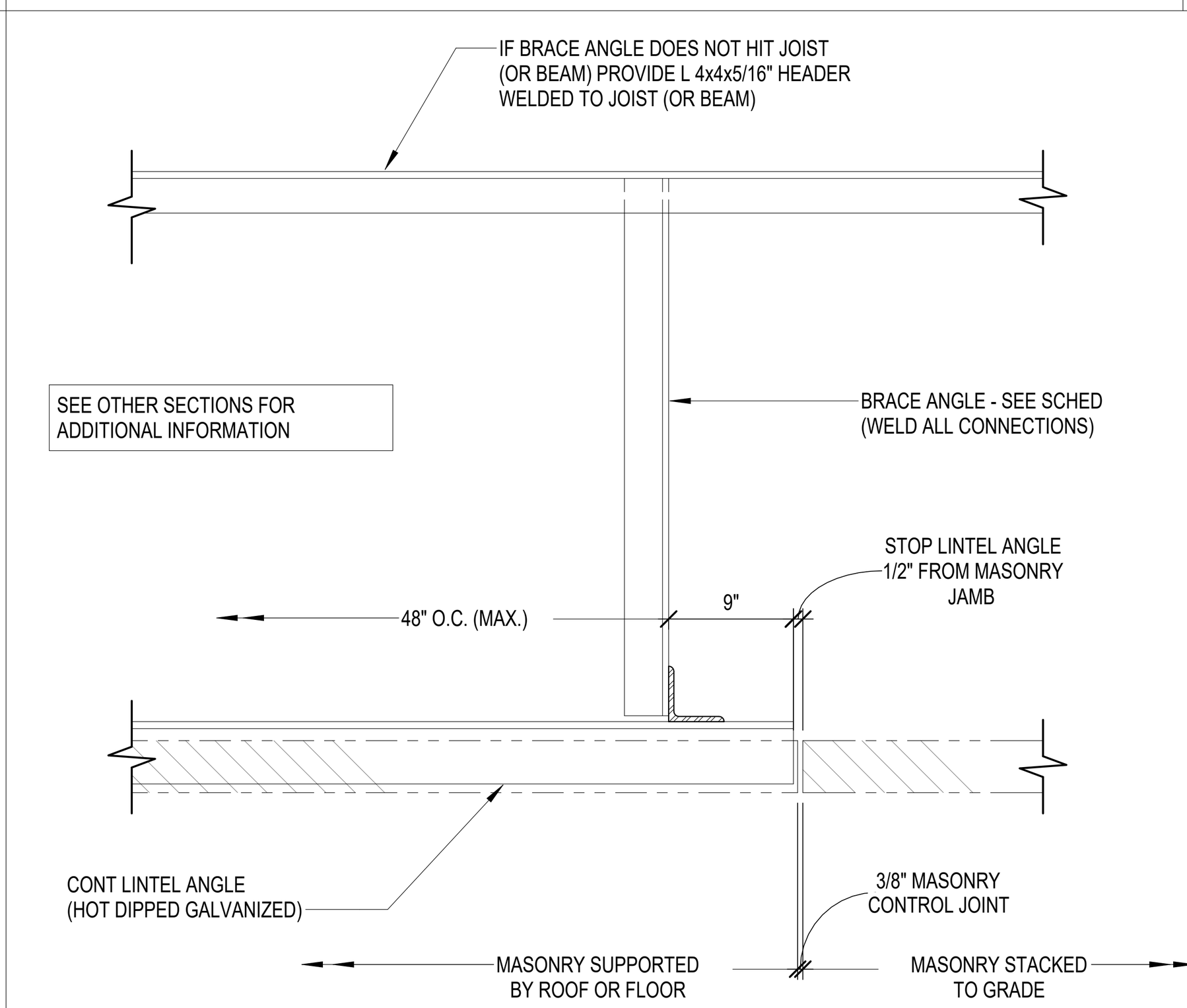


SECTION AT LINTEL

NOTES:

1. REF ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS.
2. PROVIDE 1" OF BEARING @ EACH JAMB FOR EACH FOOT OF CLEARSPAN BUT NOT LESS THAN 8".
3. WHERE MIN. BEARING CANNOT BE ACHIEVED, PROVIDE ADEQUATE CONNECTION TO STRUCTURAL MEMBERS OR PROVIDE VERTICAL SUPPORTS AS REQ'D. SUCH DETAILS SHALL BE APPROVED BY THE ENGINEER OF RECORD.

12 TYPICAL STEEL LOOSE LINTEL SCHEDULE
NO SCALE



NOTE:

1. WHERE MASONRY IS SUPPORTED BY STEEL TUBES WITHOUT HANGERS AND BRACES, THE NOTES PERTAINING TO LINTEL ANGLES SHALL STILL APPLY.

BRACE ANGLE SCHEDULE

BRACE ANGLE SIZE	HEADER ANGLE SIZE	MAX LENGTH
L 3x3x1/4"	L 4x4x5/16"	9'-6"
L 4x4x1/4"	L 5x5x5/16"	13'-3"
L 5x5x5/16"	L 6x6x3/8"	16'-6"
L 6X6x5/16"	L 6x6x3/8"	20'-0"
CONSULT ENGINEER	CONSULT ENGINEER	OVER 20'-0"

SIZE OF ALL BRACE ANGLES IN COMPRESSION SHALL BE DETERMINED BY STEEL FABRICATOR BASED ON THEIR UNBRACED LENGTHS AS SCHEDULED

13 HANGER BRACE SCHEDULE
NO SCALE

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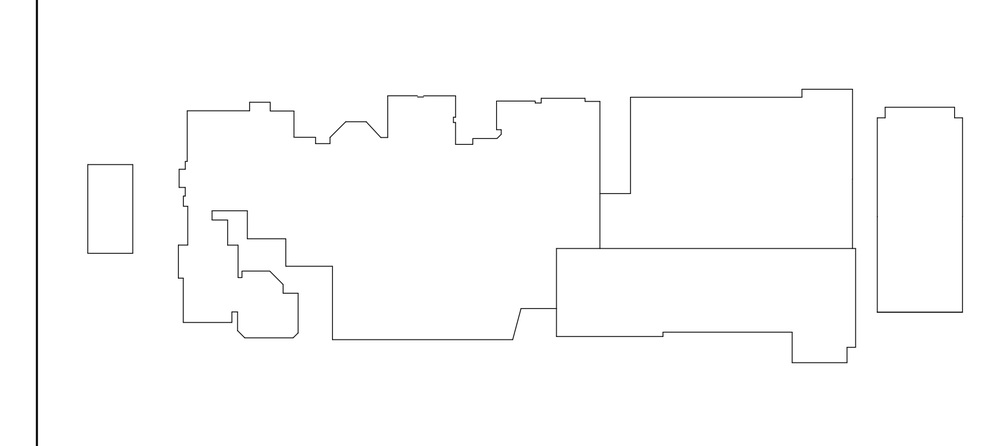
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN



NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

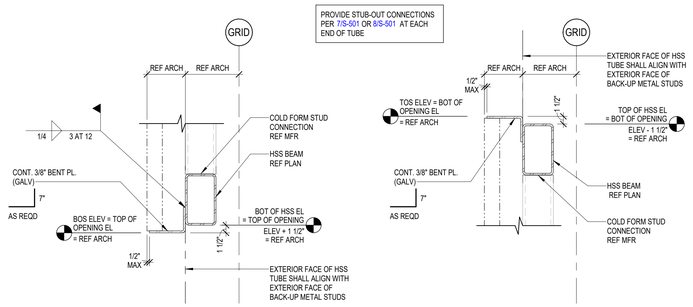
GENERAL STEEL NOTES AND TYP DETAILS

S-501

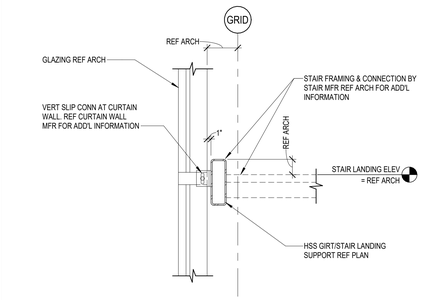
Plot Stamp:
12/5/2025 11:52:33 AM

GENERAL STEEL NOTES AND TYP DETAILS
S-502
FOR BLUEBEAM LABELING/DOOR:

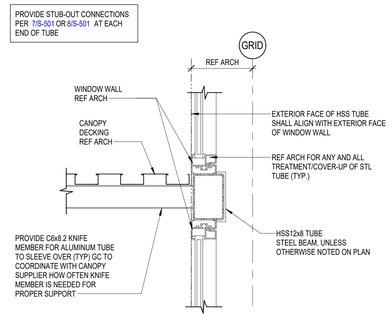
0"
1"



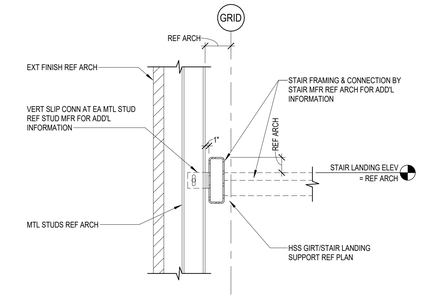
1 TYP LOW TUBE AT BRICK SUPPORT
1" = 1'-0"



2 TYPICAL GIRT/STAIR LANDING SUPPORT
NO SCALE



3 TYPICAL INTERMEDIATE WINDOW WALL SUPPORT DETAIL
NO SCALE



4 TYPICAL GIRT/STAIR LANDING SUPPORT
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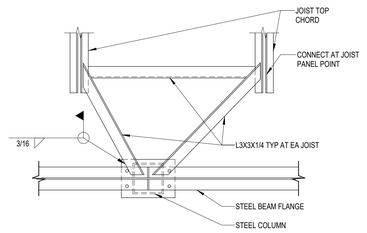
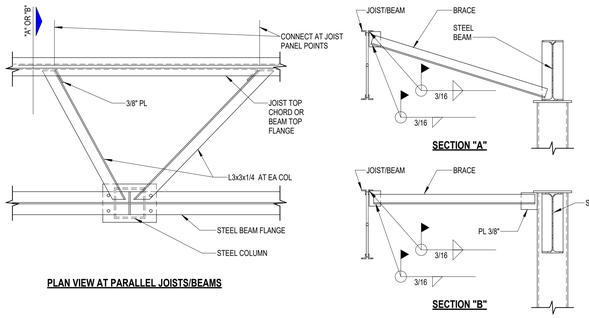
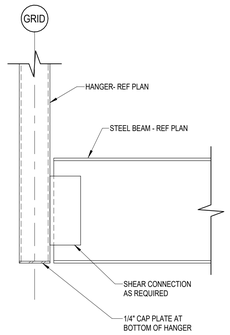


PLAN VIEW AT PERPENDICULAR JOISTS/BEAMS



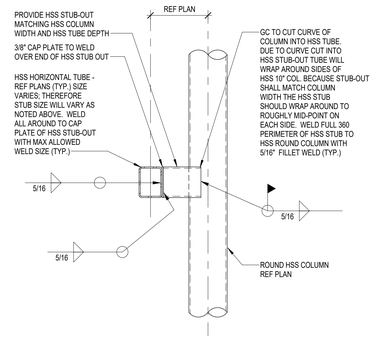
PLAN VIEW AT PARALLEL JOISTS/BEAMS

5 TYPICAL COLUMN BRACE AT JOISTS/BEAMS
NO SCALE

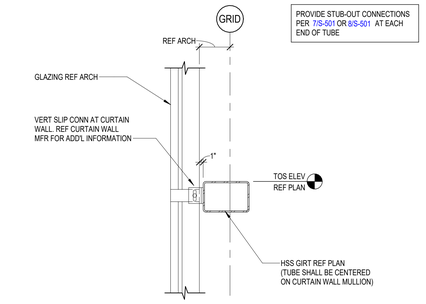


NOTE:
1. DECK NOT SHOWN FOR CLARITY.

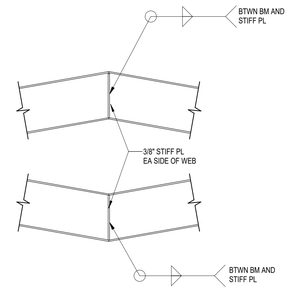
6 TYPICAL BEAM TO HANGER CONNECTION
NO SCALE



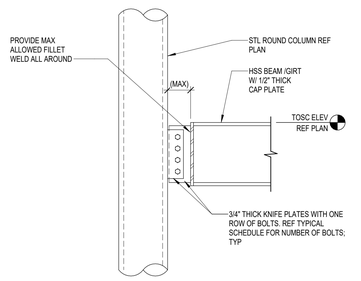
7 TYPICAL OFFSET HSS BEAM TO HSS COLUMN CONNECTION
3/4" = 1'-0"



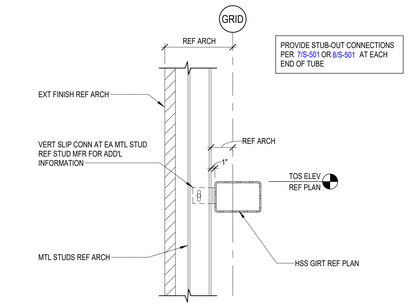
8 TYPICAL HSS GIRT AT GLAZING
NO SCALE



9 TYPICAL BENT BEAM DETAIL
NO SCALE



10 TYPICAL WIND GIRT AT ROUND COLUMN
NO SCALE

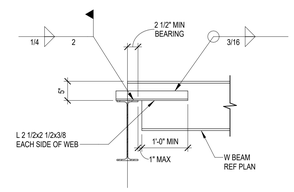


11 TYPICAL HSS GIRT AT EXTERIOR METAL STUD
NO SCALE

AT FLOOR **AT ROOF**

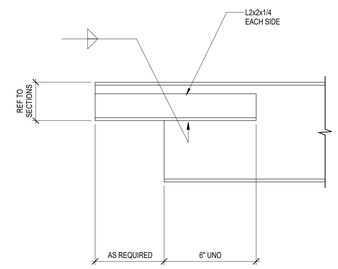
NOTES:
1. REF CONNECTION SCHEDULE
2. REF PLANS FOR LOCATIONS AND BEAM COLUMN SIZES.
3. PROVIDE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SHOWN.
4. AT TOP LEVELS PROVIDE COLUMN CAP PLATE.

12 TYPICAL MOMENT CONNECTION DETAIL AT HSS COLUMN
NO SCALE

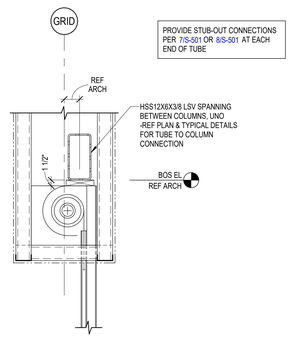


NOTES:
1. CUT BEAM TO MAINTAIN 5" DEPTH ON WEB.
2. MAXIMUM CAPACITY 10k.

13 TYPICAL DEATIL FOR 5" SEAT CONNECTION FOR STEEL BEAM
NO SCALE



14 TYPICAL COPED CHANNEL OR BEAM
NO SCALE



15 OVERHEAD COILING DOOR SUPPORT
3/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
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ISSUE FOR PROPOSAL

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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

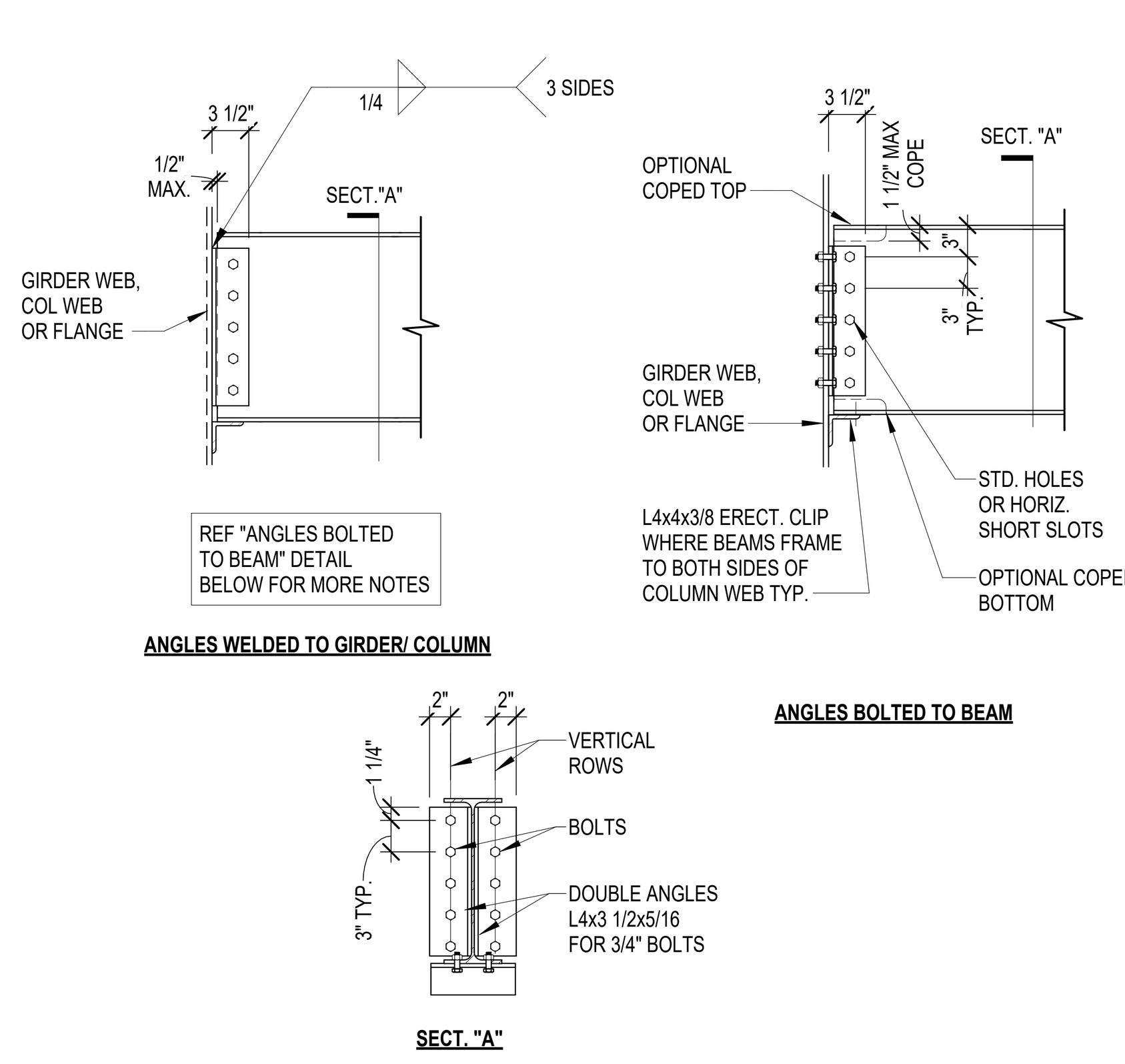
CHECKED BY: SI
DRAWN BY: CML

GENERAL STEEL NOTES AND TYP DETAILS

S-502

Plot Stamp:
12/5/2025 11:52:34 AM

GENERAL STEEL CONNECTION NOTES AND TYP DETAILS
S-503
FOR BLUEBEAM LABELING/OCR:



THIS CONNECTION SHALL BE USED ONLY WHEN CONNECTING BEAMS TO COLUMNS OR WHEN CONNECTING BEAMS TO GIRDERS WHERE GIRDER HAS BEAM CONNECTION ON ONE SIDE ONLY IF USED AT LOCATIONS WHERE A BEAM CONNECTION IS OPPOSED BY A BEAM CONNECTION ON THE OTHER SIDE OF THE SUPPORTING MEMBER, AN OSHA-APPROVED METHOD MUST BE USED FOR TEMPORARY ERECTION SUPPORT OF BOTH MEMBERS.

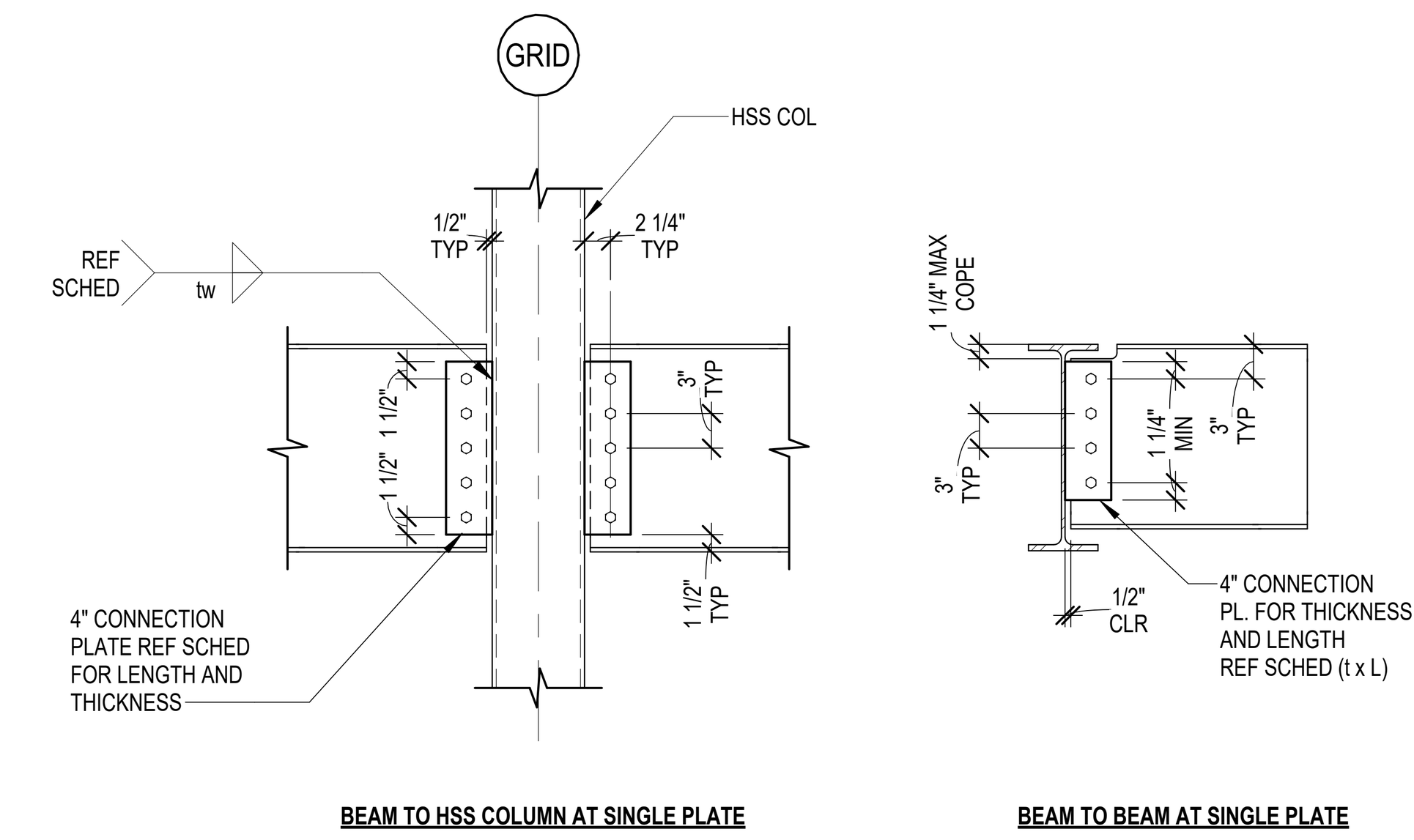
DOUBLE-ANGLE CONNECTION SCHEDULE

BEAM SIZE	NO. OF BOLTS PER VERT. ROW	ANGLE LENGTH (IN)	MAX CAPACITY (KIPS) (ASD)
W8	2	5 1/2	9
W10	2	5 1/2	14
W12	3	8 1/2	23
W14	3	8 1/2	28
W16	4	11 1/2	40
W18	4	11 1/2	48
W21	5	14 1/2	64
W24	6	17 1/2	83
W27	6	17 1/2	113
W30	7	20 1/2	119
W33	8	23 1/2	142
W36	9	26 1/2	160
W40	10	29 1/2	193
W44	10	29 1/2	195

NOTES:

1. ALLOWABLE CAPACITIES ARE IN KIPS (SERVICE LEVEL - UNFACTORED).
2. CAPACITIES BASED ON GRADE 50 BEAMS, A325-N BOLTS, AND A36 ANGLES.
3. HOLES SHALL BE STANDARD (STD) OR SHORT-SLOPPED (SSLT).
4. ALL INFORMATION SHOWN IN THE SCHEDULE ABOVE IS TO BE USED AS A MINIMUM REQUIREMENT FOR ALL CONNECTIONS.
5. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

1 TYPICAL DOUBLE ANGLE CONNECTION
NO SCALE



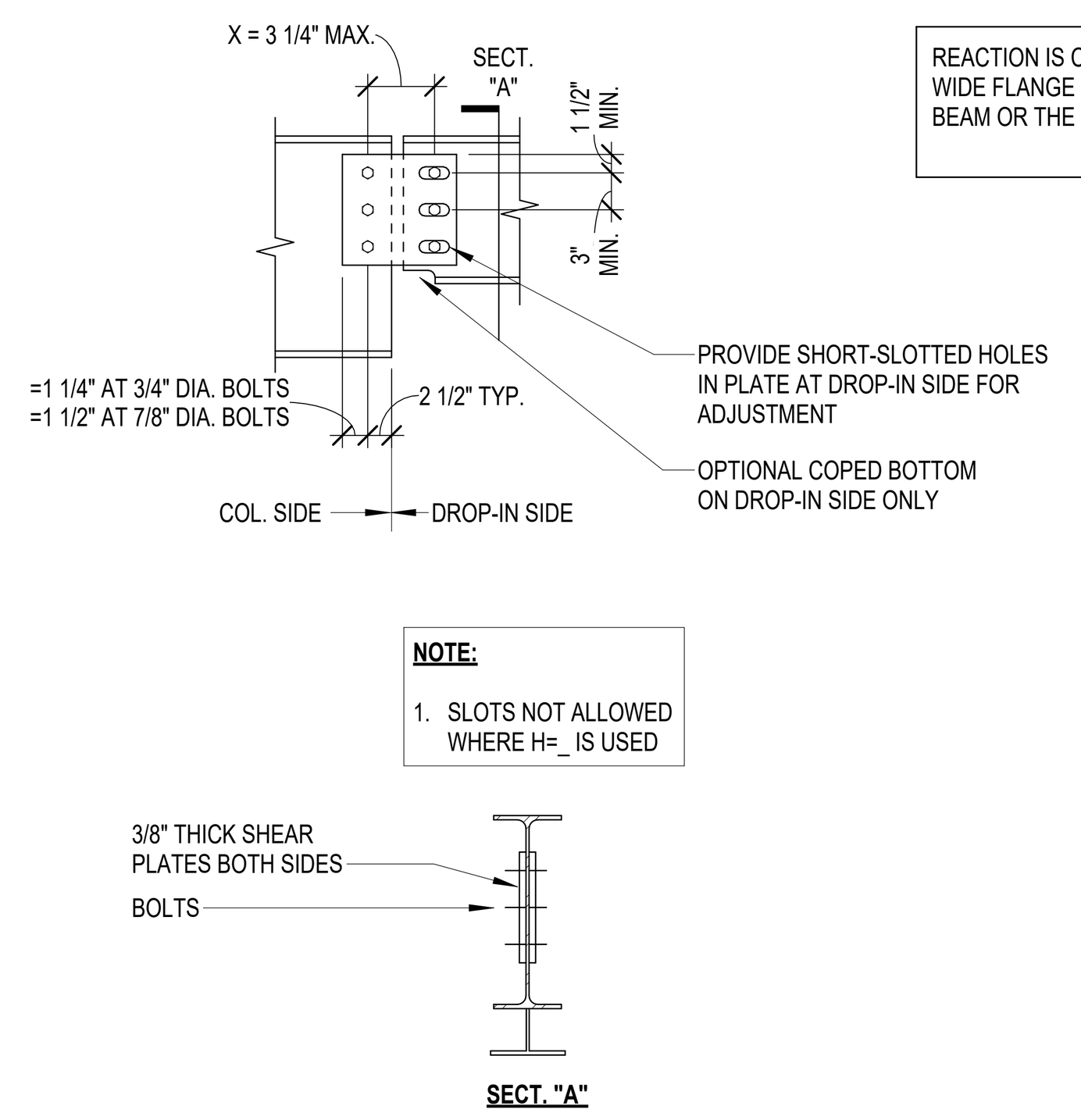
SINGLE PLATE CONNECTION SCHEDULE

BEAM SIZE	SHEAR PLATE (t x L)	WELD SIZE (tw(	A325-N BOLT DIAMETER	NO. OF BOLTS PER VERT. ROW	MAX CAPACITY (KIPS) (ASD)
W8	3/8" x 5 1/2	3/16"	3/4"	2	9
W10	3/8" x 5 1/2	1/4"	7/8"	2	14
W12	3/8" x 8 1/2	1/4"	7/8"	3	23
W14	3/8" x 8 1/2	1/4"	7/8"	3	28
W16	3/8" x 11 1/2	1/4"	7/8"	4	40
W18	1/2" x 11 1/2	1/4"	7/8"	4	48
W21	1/2" x 14 1/2	1/4"	1"	5	64
W24	1/2" x 17 1/2	1/4"	1"	6	83
W27	5/8" x 20 1/2	1/4"	1"	7	113
W30	5/8" x 20 1/2	1/4"	1"	7	119
W33	5/8" x 23 1/2	5/16"	1"	8	142
W36	5/8" x 26 1/2	5/16"	1"	9	160

NOTES:

1. ALLOWABLE CAPACITIES ARE IN KIPS (SERVICE LEVEL - UNFACTORED).
2. CAPACITIES BASED ON GRADE 50 BEAMS, A325N BOLTS, AND A36 PLATES.
3. HOLES SHALL BE STANDARD (STD) OR SHORT-SLOPPED (SSLT).
4. ALL INFORMATION SHOWN IN THE SCHEDULE ABOVE IS TO BE USED AS A MINIMUM REQUIREMENT FOR ALL CONNECTIONS.
5. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
6. WELD SIZES SHOWN IN THE ABOVE SCHEDULE ASSUME THAT THE SUPPORTING COLUMN / GIRDER MEETS THE REQUIRED THICKNESS OF THE WELD. IF THE SUPPORTING COLUMN / GIRDER DOES NOT MEET THE REQUIRED THICKNESS FOR THE SCHEDULED WELD SIZE, THE CONNECTION DESIGNER SHALL PROVIDE A SHEAR CONNECTION WHICH MEETS THE CAPACITIES PROVIDED IN THE SCHEDULE ABOVE.

2 TYPICAL SHEAR TAB BOLTED CONNECTION SCHEDULE
NO SCALE



NOTE:

1. SLOTS NOT ALLOWED WHERE H=_ IS USED

REACTION IS CALCULATED FROM THE DROP-IN SPAN. WIDE FLANGE SIZE IS THE SMALLER OF THE DROP-IN BEAM OR THE SUPPORTING BEAM.

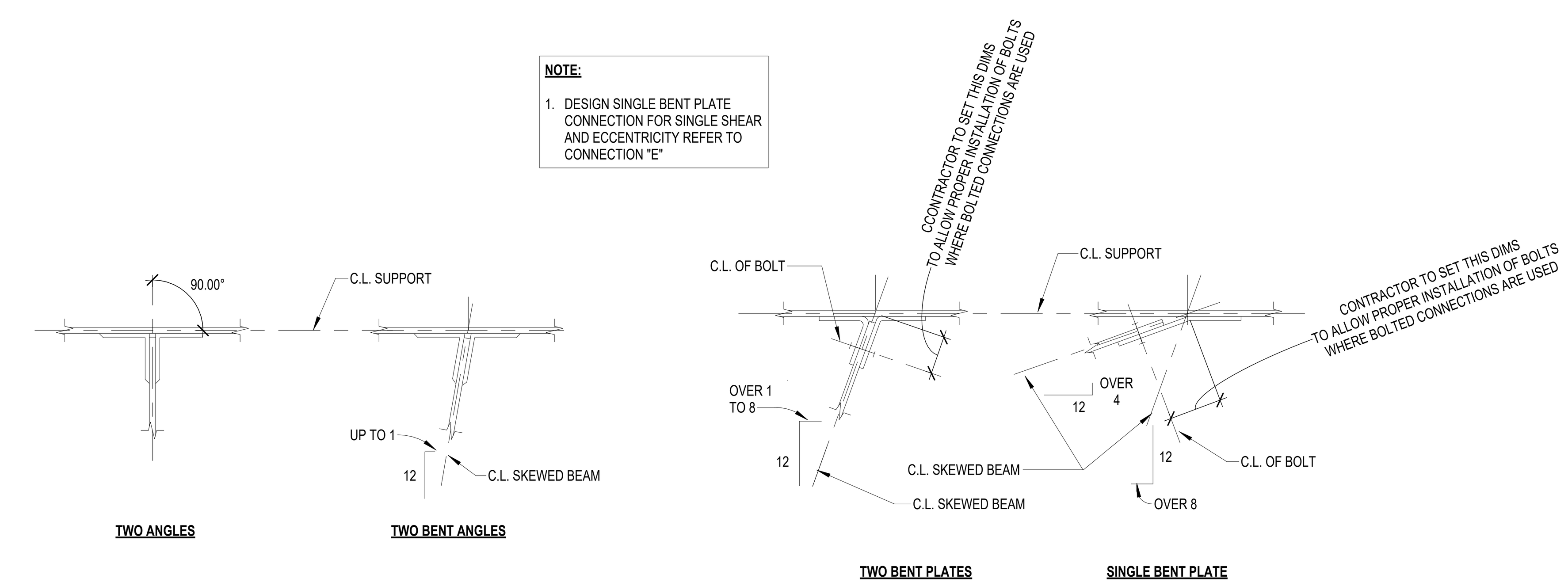
CONNECTION LOAD CAPACITY

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT ROW	MINIMUM BEAM WEB THICKNESS (IN)	MAX REACTION (KIPS) (ASD)	
			3/4" DIA. BOLT X= 3 1/4" BOLTS	7/8" DIA. BOLT X= 3 3/4" BOLTS
W8x10	2	.170	15	14
W10x12	2	.190	18	24
W12x14	3	.200	30	29
W12x16	3	.220	33	32
W8 TO W12	2	.230	18	20
W12 TO W18	3	.235	36	34
W16 TO W24	4	.250	53	51
W18 TO W30	5	.300	70	67
W21 TO W44	6	.350	97	92
W24 TO W44	7	.395	126	119
W30 TO W44	8	.470	150	187
W33 TO W44	9	.550	173	234
W36 TO W44	10	.600	195	261
W40 TO W44	11	.630	217	287
W44	12	.710	238	313

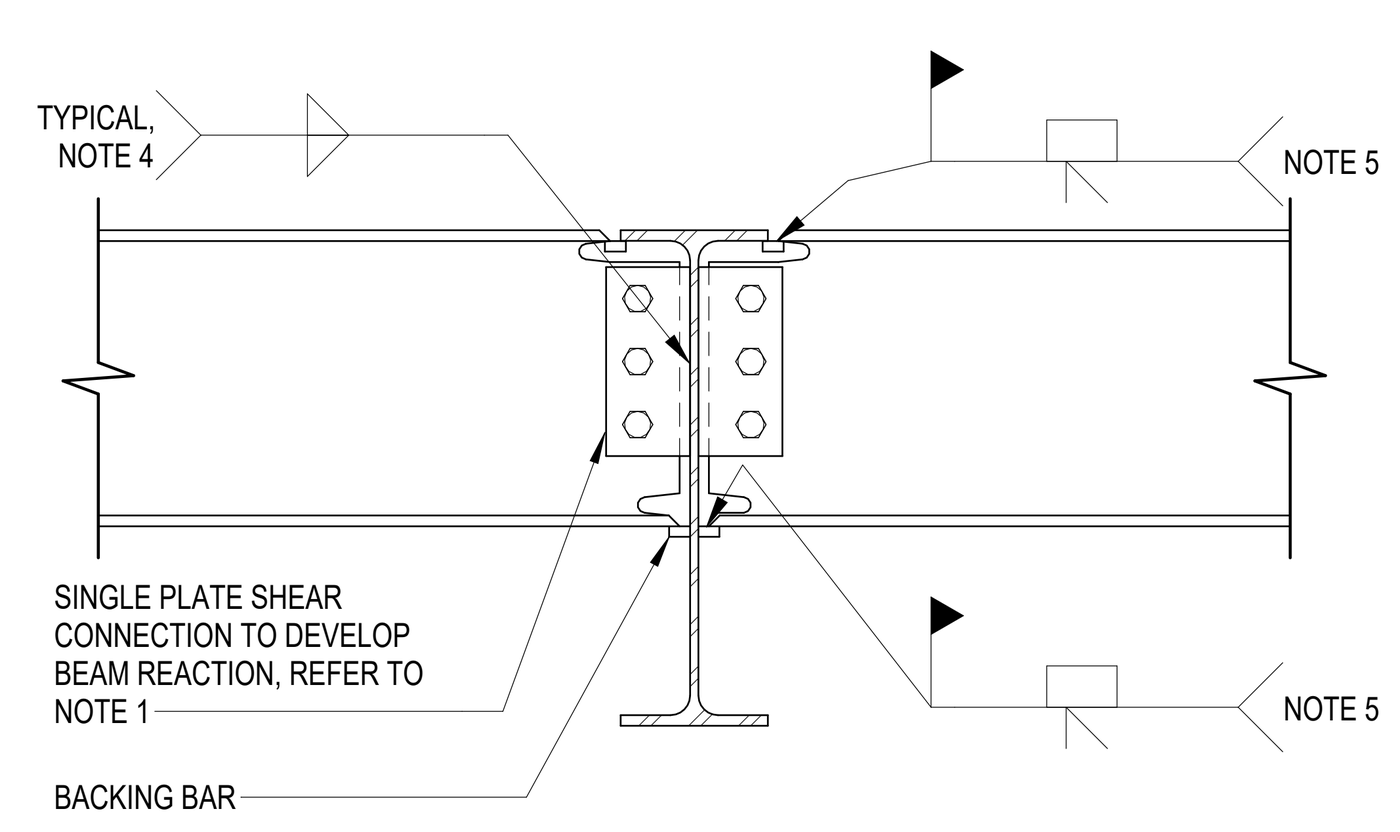
3 TYPICAL SHEAR SPLICE CONNECTION
NO SCALE

NOTE:

1. DESIGN SINGLE BENT PLATE CONNECTION FOR SINGLE SHEAR AND ECCENTRICITY REFER TO CONNECTION "E"



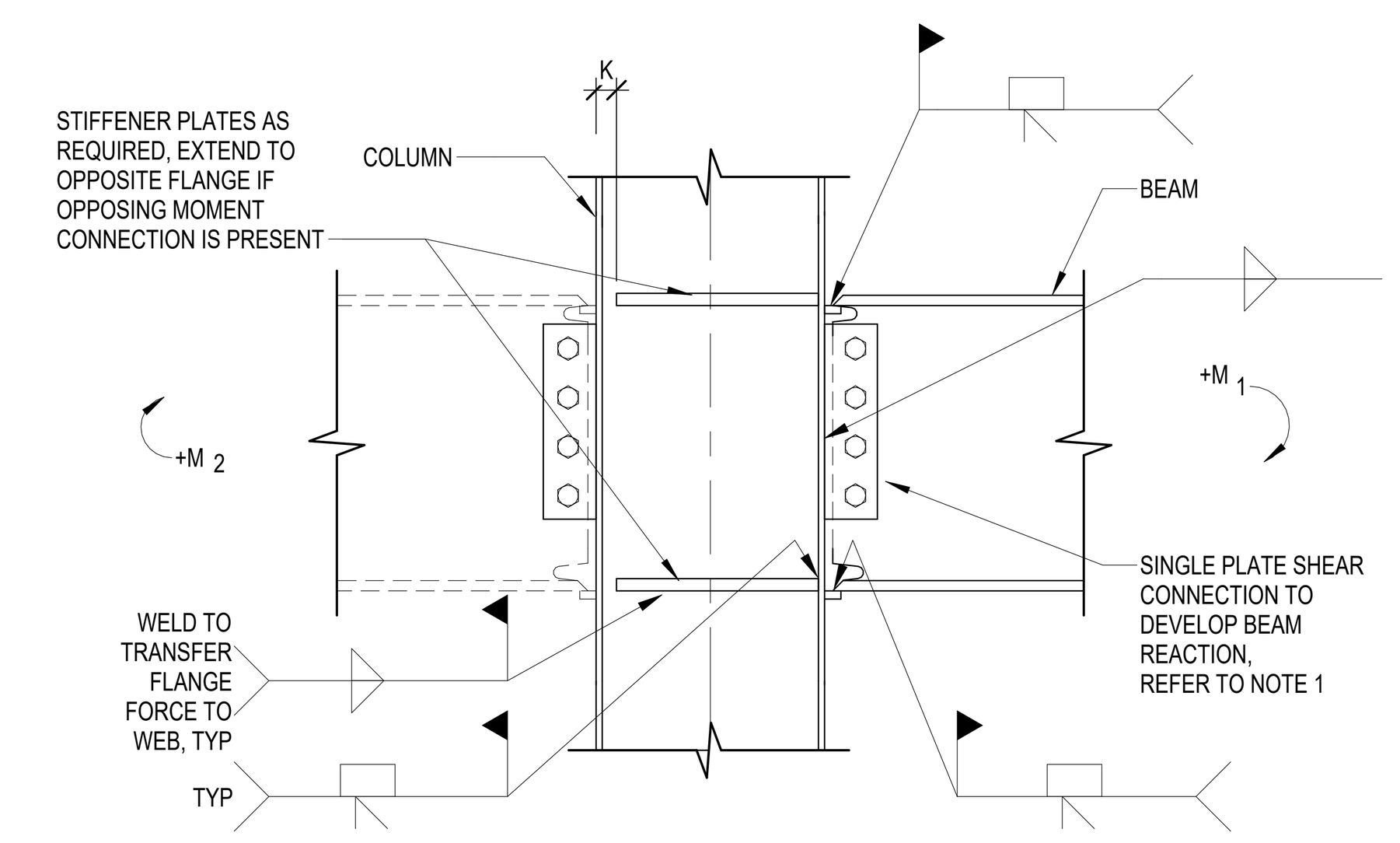
4 TYPICAL SKEWED SIMPLE FRAMING CONNECTION - BEAM TO BEAM
NO SCALE



NOTES:

1. BOLTS IN WEB CONNECTION MAY BE SNUG-TIGHTENED OR PRETENSIONED A325 OR A490 BOLTS WITH HORIZONTAL SHORT-SLOTTED HOLES IN PLATE. IF BOLTS ARE TO BE PRETENSIONED, SNUG-TIGHTEN BOLTS PRIOR TO WELDING FLANGES AND PRETENSION AFTER WELDING FLANGES.
2. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
3. PROVIDE PREDESIGNED SHEAR CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION LRFD MANUAL WHERE APPLICABLE.
4. MINIMUM FILLET WELD SIZE FOR SINGLE PLATE SHEAR CONNECTIONS SHALL BE 5/8 TIMES THE PLATE THICKNESS.
5. IF MOMENT IS SHOWN ON DRAWINGS, PARTIAL PENETRATION WELD TO DEVELOP MOMENT CAN BE USED IN LIEU OF COMPLETE JOINT PENETRATION WELD. FOR THIS CASE, WELD SHALL BE REQUIRED TO DEVELOP THE BEAM FLANGE FORCE COMPUTED AS FOLLOWS: Pu = (Mu)/(0.95D), WHERE:
   Mu = DESIGN MOMENT (KIP-FEET).
   D = BEAM DEPTH (INCHES).
   Pu = BEAM FLANGE FORCE (KIPS).

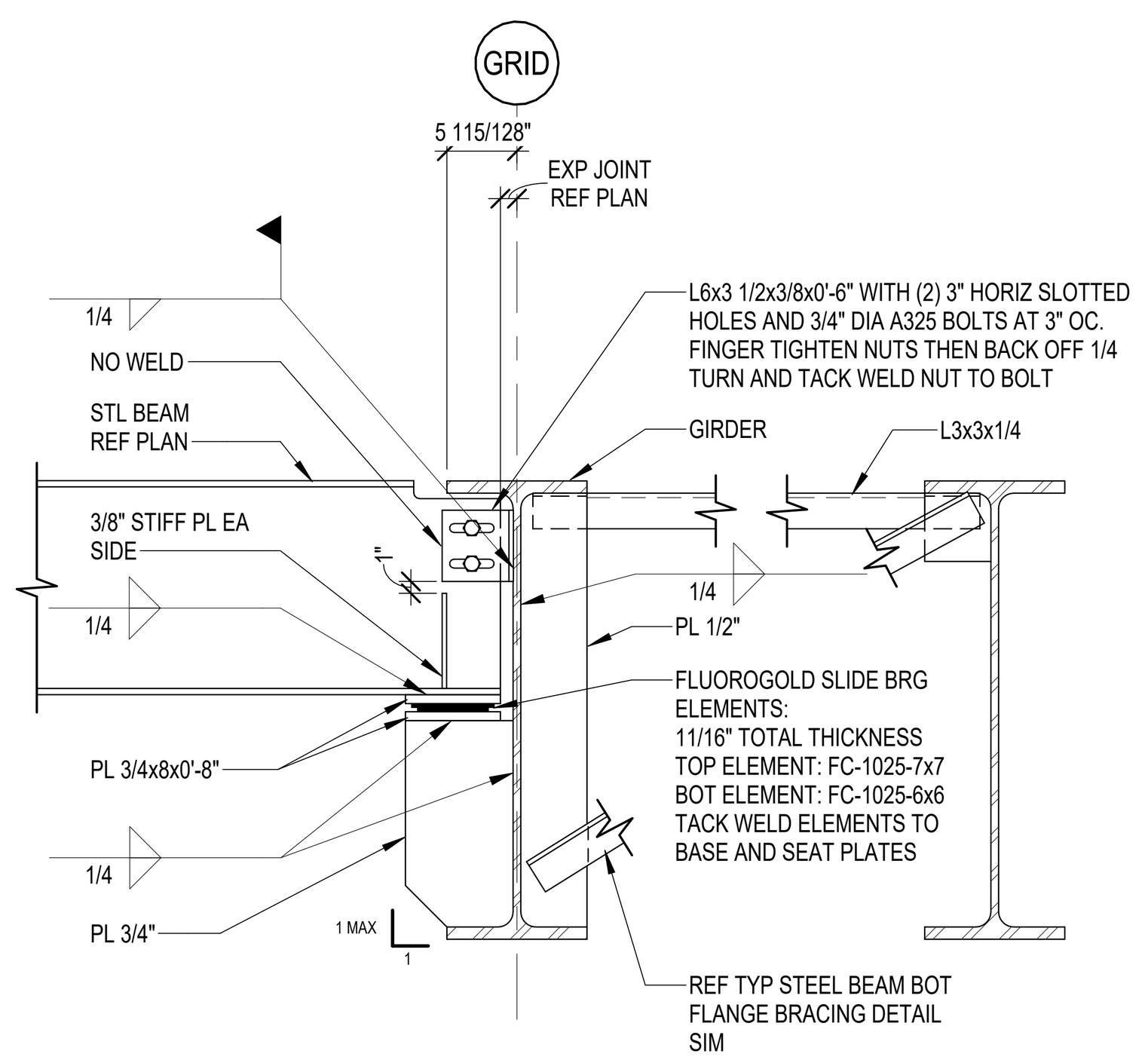
5 TYPICAL BEAM-TO-BEAM MOMENT CONNECTION DETAIL
NO SCALE

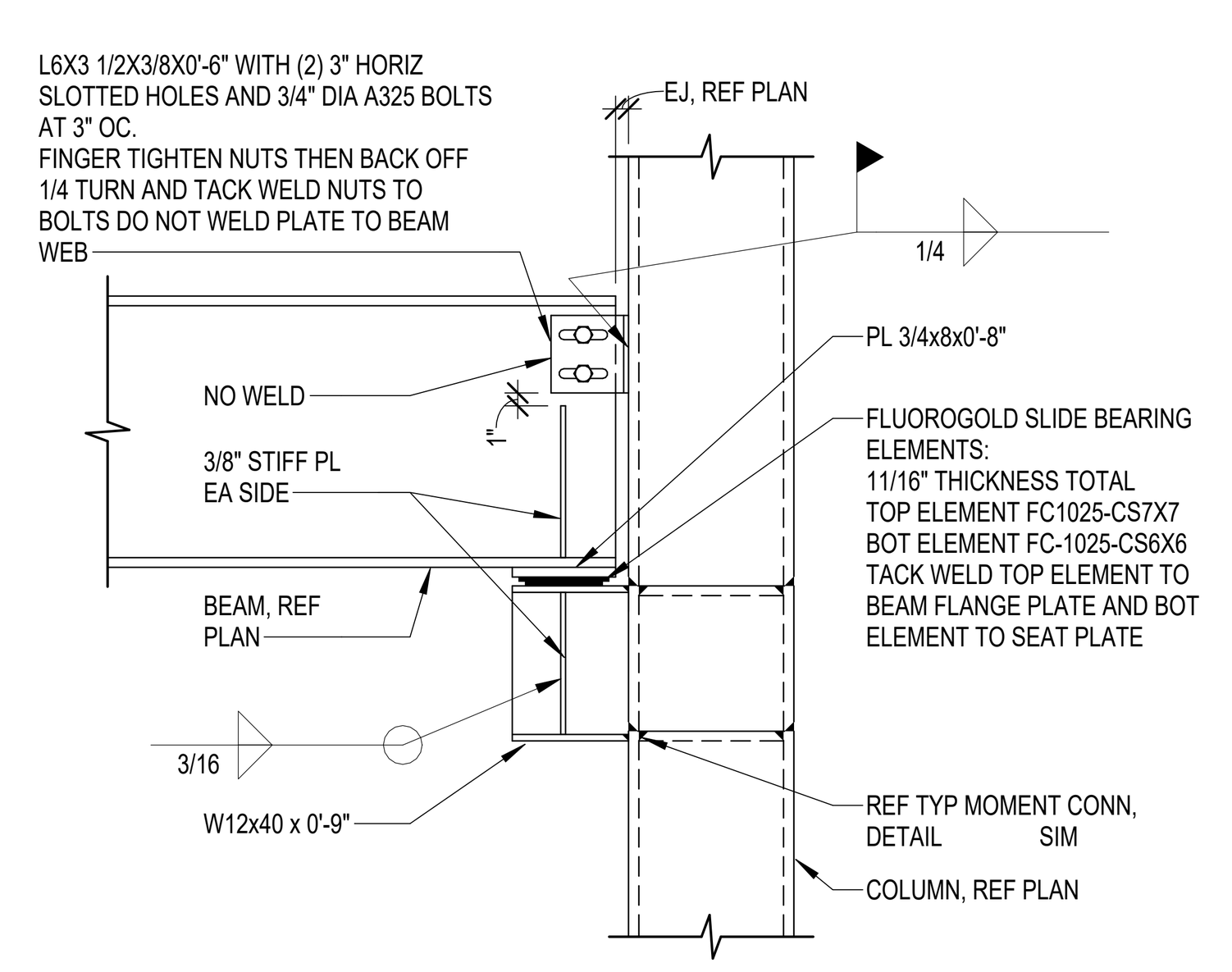


NOTES:

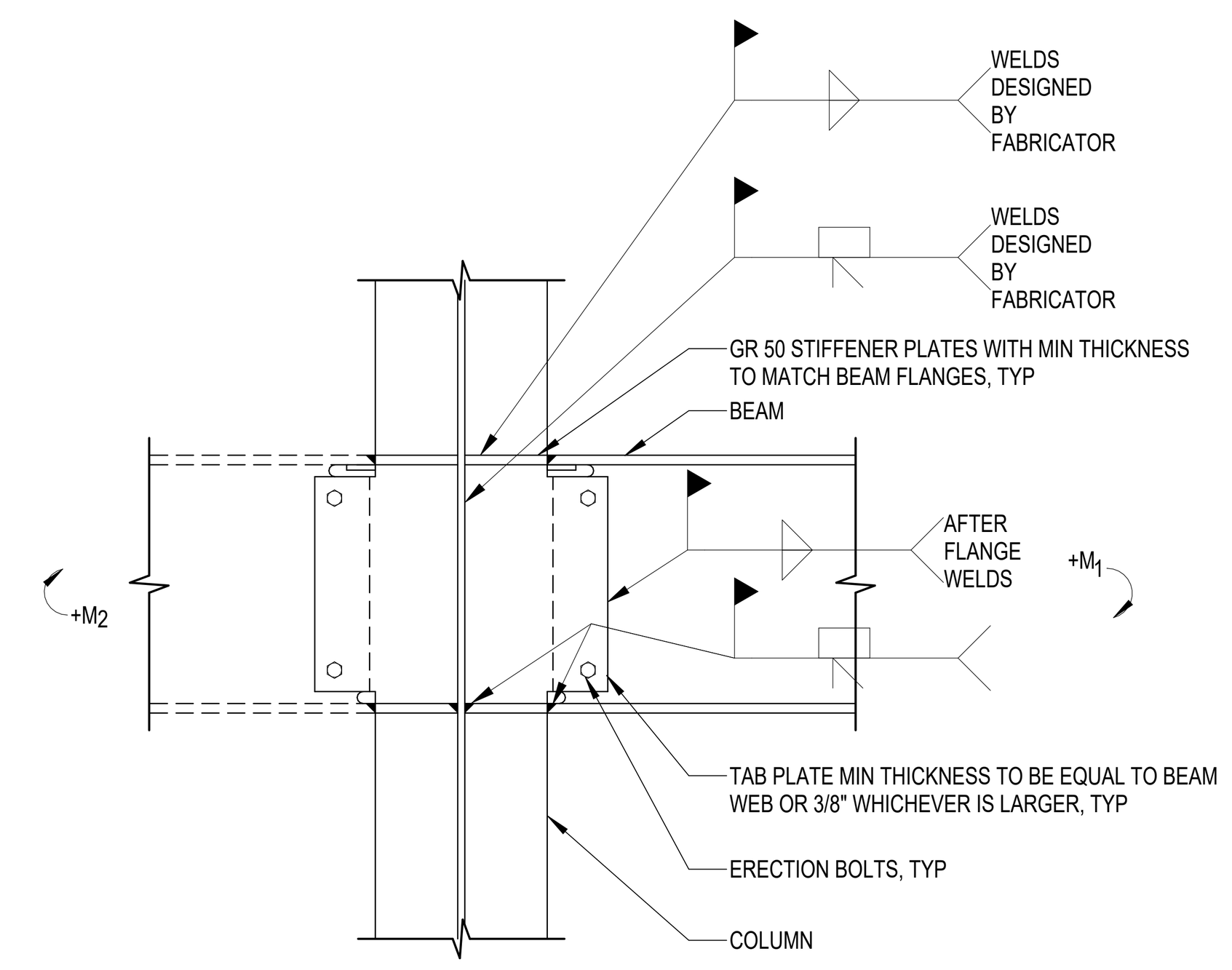
1. BOLTS IN WEB CONNECTION MAY BE SNUG-TIGHTENED OR PRETENSIONED A325 OR A490 BOLTS WITH HORIZONTAL SHORT-SLOTTED HOLES IN PLATE. IF BOLTS ARE TO BE PRETENSIONED, SNUG-TIGHTEN BOLTS PRIOR TO WELDING FLANGES AND PRETENSION AFTER WELDING FLANGES.
2. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
3. PROVIDE PREDESIGNED SHEAR CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL WHERE APPLICABLE.
4. MINIMUM FILLET WELD SIZE FOR SINGLE PLATE SHEAR CONNECTIONS SHALL BE 5/8 TIMES THE PLATE THICKNESS.
5. WHEN BEAM FRAMES ON ONLY ONE SIDE OF COLUMN OR WHEN BEAM MOMENTS ARE SIGNIFICANTLY UNBALANCED (I M + M I >>0), STRENGTHEN COLUMN WEB AS REQUIRED.
6. ALL CJP WELDS: CVN = 20FT-LBS AT 40°F.

6 TYPICAL MOMENT CONNECTION AT COLUMN FLANGE
NO SCALE





7 TYPICAL SLIDE BEARING CONNECTION
3/4" = 1'-0"



NOTES:

1. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
2. WHEN BEAM FRAMES ON ONLY ONE SIDE OF COLUMN OR WHEN BEAM MOMENTS ARE SIGNIFICANTLY UNBALANCED (I M + M I >>0), STRENGTHEN COLUMN WEB AS REQUIRED.
3. ALL CJP WELDS: CVN = 20FT-LBS AT 40°F.

8 TYPICAL MOMENT CONNECTION AT COLUMN WEB
3/4" = 1'-0"

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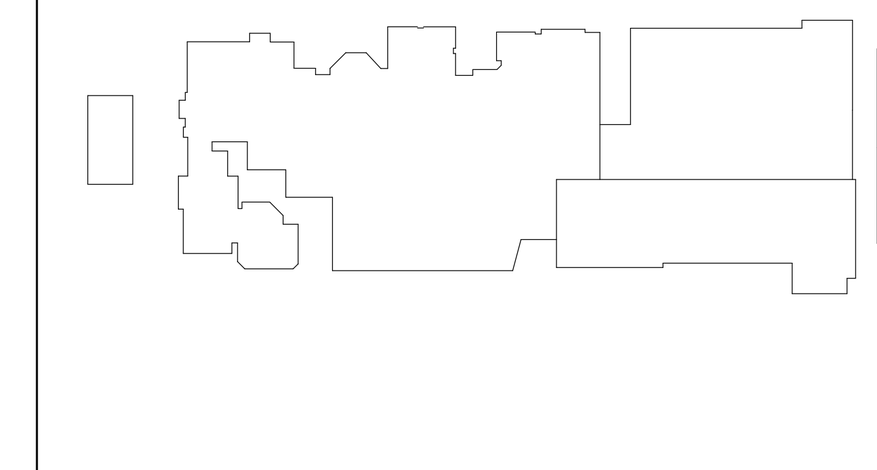


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

GENERAL STEEL CONNECTION NOTES AND TYP DETAILS

S-503

Plot Stamp:
12/5/2025 11:52:36 AM

0"
1"

SLABS FORM DECK (AT FLOORS):

1. FLOOR DECK SHALL BE CONTINUOUS OVER FOUR OR MORE SUPPORTS. AT LOCATIONS WHERE SINGLE OR DOUBLE SPAN CONDITIONS OCCUR, THE CONTRACTOR SHALL EITHER SHORE THE DECK, OR ADJUST THE GAGE THICKNESS OF THE DECK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORT OVER FOUR SUPPORTS.
2. DESIGN OF COMPOSITE STEEL BEAMS AND DETAILS FOR CONSTRUCTION ARE BASED ON THE FOLLOWING DECK SYSTEM:

METAL DECK SCHEDULE									METAL DECK CONNECTION SCHEDULE		
									FASTEN DECK TO SUPPORT MEMBERS		
DECK DESIGNATION	DECK GAUGE	SDI DECK TYPE	DECK DEPTH (IN)	Ie+ (IN4)	Ie- (IN4)	Se+ (IN3)	Se- (IN3)	Fy (KSI)	ATTACHMENT PATTERN (W/N)	SUPPORT FASTENERS	SIDELAP FASTENERS
3.0 VLI	20	COMPOSITE	3.0	0.919	0.921	0.512	0.539	50	36/4	5/8" PUDDLE WELD	1-1/2" TOP ARC SEAM WELDS @ 12" OC
2.0 VLI	18	COMPOSITE	2.0	0.409	0.407	0.326	0.337	50	36/4	5/8" PUDDLE WELD	1-1/2" TOP ARC SEAM WELDS @ 12" OC

Ie+: POSITIVE EFFECTIVE MOMENT OF INERTIA
Ie-: NEGATIVE EFFECTIVE MOMENT OF INERTIA
Se+: POSITIVE EFFECTIVE SECTION MODULUS
Se-: NEGATIVE EFFECTIVE SECTION MODULUS
FY:YIELD STRENGTH
W/N: SHEET WIDTH / NUMBER OF CONNECTIONS EACH SHEET

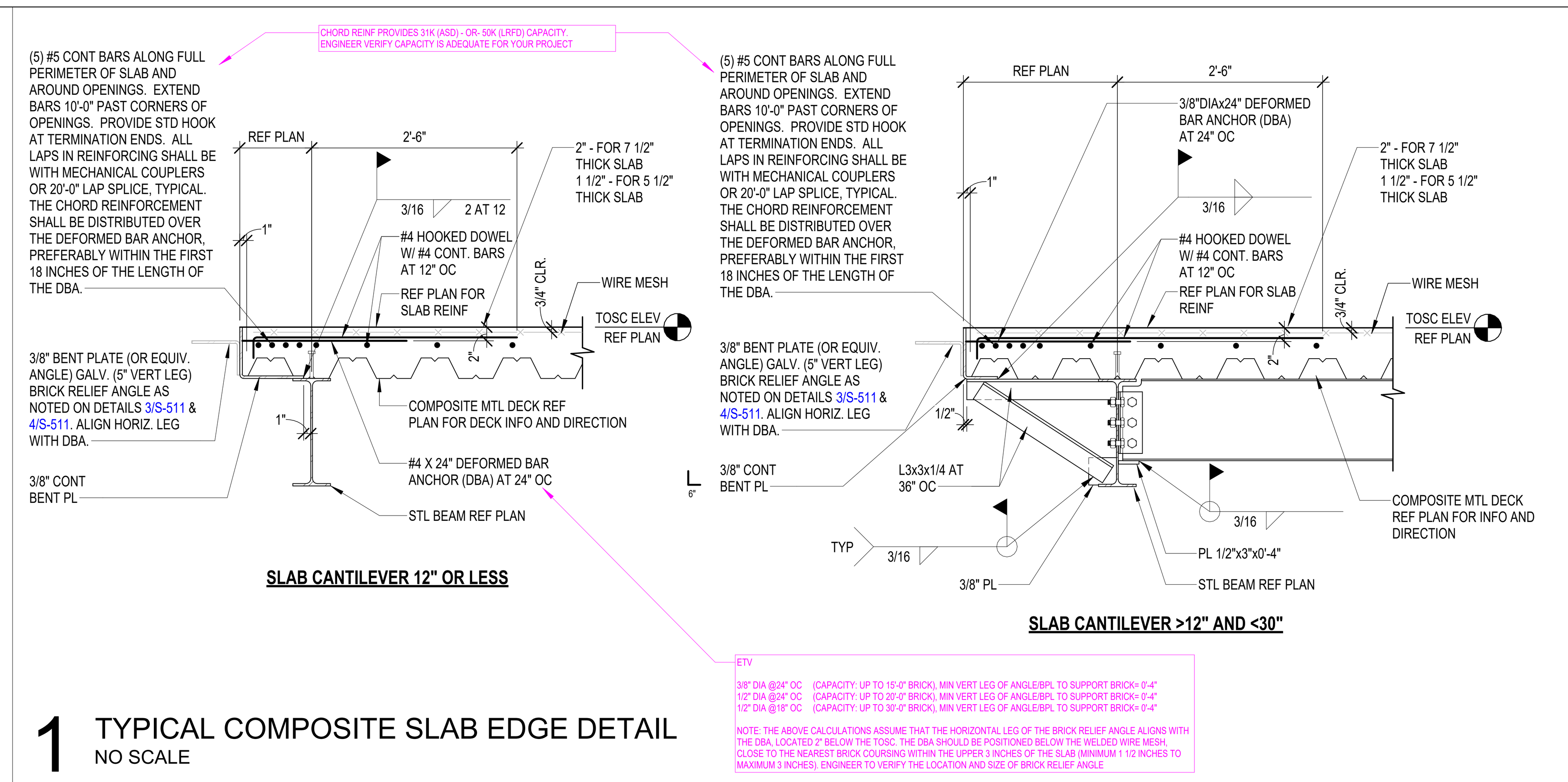
ETV

ETV
Deck Design Tools can be found here:
https://vulcraft.com/resources/designtools
Ensure that deck specified and support spacing shown pass all deck design checks & meet fire rating requirements.
Additional materials can be found here:
S:\Technical Resources\003 - KE's Schedules\Steel\Deck Schedules

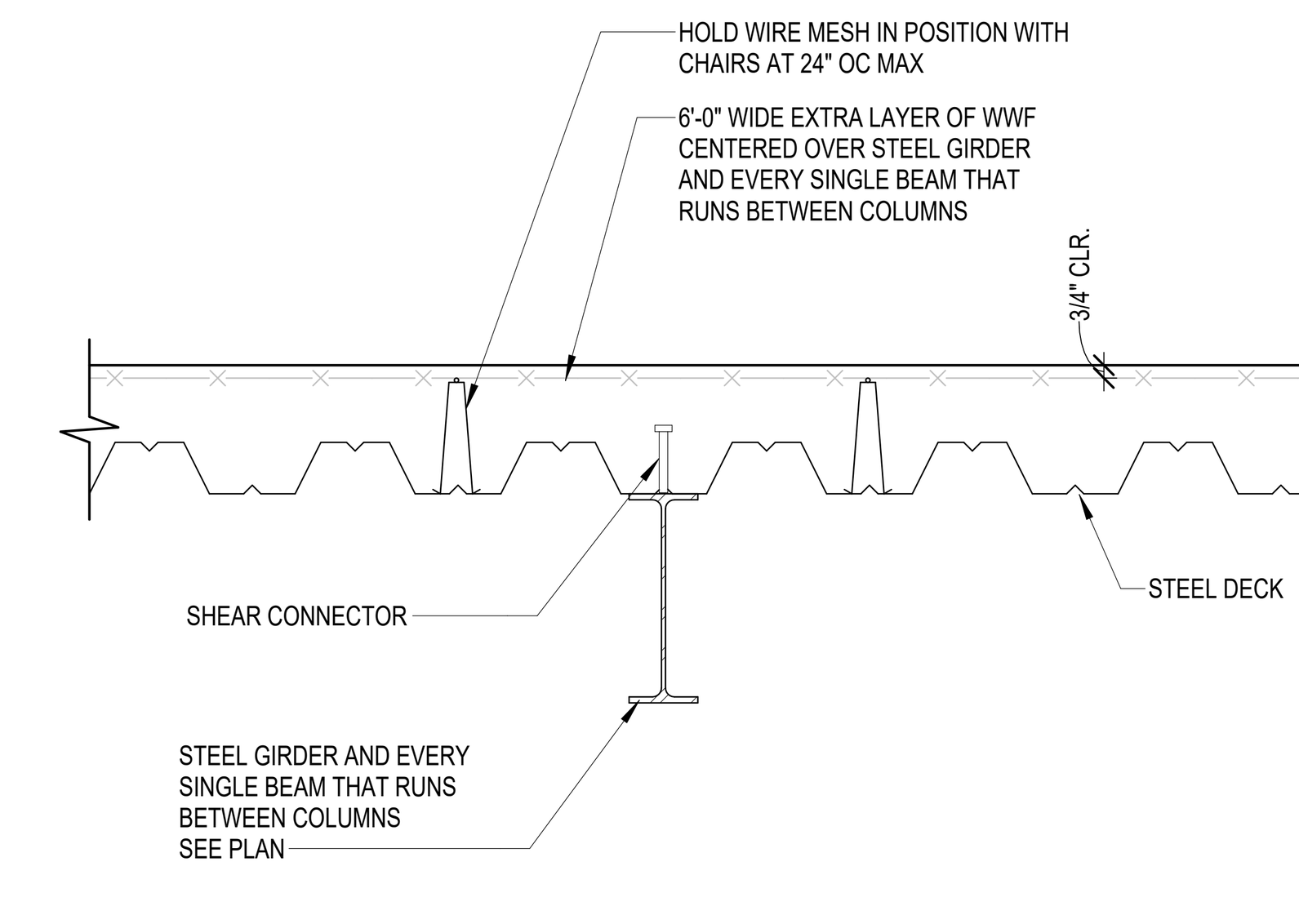
3. COMPOSITE STEEL BEAMS DO NOT REQUIRE SHORING TO SUPPORT THE WET WEIGHT OF CONCRETE. BEAMS WILL BE HIGHLY STRESSED AS CONCRETE IS PLACED AND MUST BE POSITIVELY BRACED BY THE METAL DECK CONNECTIONS. DO NOT EXCEED CONCRETE THICKNESSES SHOWN.
4. WARNING: IN NON-SHORED CONSTRUCTION, EXCESSIVE CONCRETE WEIGHT DURING CASTING CAN CAUSE SUPPORTING BEAMS TO COLLAPSE. DO NOT, UNDER ANY CIRCUMSTANCES, EXCEED THE DESIGN SLAB THICKNESS BY MORE THAN 3/4 INCH. CAREFULLY CHECK BEAM CAMBERS AND RETURN ANY FOUND TO BE OUT OF TOLERANCE TO THE SHOP FOR CORRECTION.
5. PRIOR TO ERECTING THE FIRST COMPOSITE BEAMS, THE CONTRACTOR SHALL CALL A SPECIAL PRE-CONSTRUCTION MEETING WITH APPLICABLE SUBCONTRACTORS, TESTING LABORATORY, ARCHITECT AND STRUCTURAL ENGINEER TO REVIEW ALL REQUIREMENTS AND ESTABLISH A QUALITY CONTROL PROCEDURE.
6. THE FINISHED COMPOSITE FLOOR SHALL NOT BE LOADED WITH CONSTRUCTION MATERIALS BEFORE THE CONCRETE HAS ATTAINED 75 PERCENT OF ITS SPECIFIED STRENGTH.
7. ALL SHEAR STUDS SHALL BE FIELD APPLIED, UNLESS OTHERWISE NOTED. SIZE SHALL BE SELECTED FROM THE FOLLOWING TABLE DEPENDING ON DECK AND SLAB DIMENSIONS:

DECK THICKNESS	TOTAL SLAB THICKNESS	SHEAR STUDS
3"	5.5"	3/4" DIA. X 5"
3"	6.5"	3/4" DIA. X 5"
3"	7.5"	3/4" DIA. X 5"
2"	5.5"	3/4" DIA. X 5"
2"	6.5"	3/4" DIA. X 5"

8. PLACE THE INDICATED NUMBER OF SHEAR STUDS ALONG THE LENGTH OF THE BEAM OR BEAM SEGMENT AS SHOWN IN THE SHEAR STUD PLACEMENT DIAGRAMS. STUDS SHALL BE EQUALLY SPACED IN A SINGLE ROW WHERE POSSIBLE, ALLOWING A SINGLE STUD IN THE DECK FLUTES, WHERE APPLICABLE. WHERE ADDITIONAL STUDS ARE REQUIRED TO OBTAIN THE SPECIFIED NUMBER OF STUDS IN A LENGTH OF BEAM, PLACE STUDS IN TANDEM PAIRS PER THE SHEAR STUD PLACEMENT DIAGRAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING PROPER STUD LAYOUT FOR EACH BEAM PRIOR TO INSTALLATION OF STUDS IN THE FIELD. REFER TO TYPICAL DETAILS FOR PLACEMENT OF SHEAR STUDS ON BEAMS.
9. WHERE MULTIPLE NUMBERS OF STUDS ARE SHOWN FOR A BEAM, PLACE EACH QUANTITY OF STUDS IN THE CORRESPONDING BEAM SEGMENT WHERE THE NUMBER IS SHOWN.
10. PROVIDE CAMBER IN MEMBERS WHERE INDICATED. SPECIFIED CAMBER APPLIES AT JOBSITE, JUST PRIOR TO ERECTION, LYING DOWN FLAT SO THAT MEMBER WEIGHT HAS NO EFFECT. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT OR COMPENSATE FOR CAMBER LOSS DURING SHIPMENT. MEASURED CAMBER IN MEMBERS UP TO 50'-0" LONG SHALL BE WITHIN A TOLERANCE OF -0" TO +1/2" FROM AMOUNT SPECIFIED. FOR MEMBERS GREATER THAN 50'-0" LONG, BOTH POSITIVE AND NEGATIVE TOLERANCE MAY INCREASE 1/8" FOR EVERY 10'-0" OF LENGTH IN EXCESS OF 50'-0". MEMBERS WITH A FIELD MEASURED CAMBER OUTSIDE OF SPECIFIED TOLERANCE SHALL BE RETURNED TO SHOP.
11. SUPPORT CAMBERED MEMBERS DURING SHIPMENT AND HANDLING IN A MANNER WHICH WILL NOT RESULT IN LOSS OF CAMBER.
12. THE CONTRACTOR SHALL MEASURE AND RECORD CAMBER OF ALL BEAMS UPON ARRIVAL AND BEFORE ERECTION FOR COMPLIANCE WITH THE SPECIFIED CAMBER. MEASURE LYING FLAT WITH WEB HORIZONTAL. MEMBERS OUTSIDE THE CAMBER TOLERANCE SHALL BE RETURNED TO THE SHOP FOR CORRECTION. CAMBERS MEASURED BY THE CONTRACTOR ARE TO BE VERIFIED BY THE OWNER'S TESTING LABORATORY.
13. PLACE AN EXTRA LAYER OF WIRE MESH 6'-0" WIDE IN THE TOP OF THE SLAB ABOVE ALL INTERIOR GIRDERS WHICH RUN PARALLEL TO THE DECK SPAN.
14. PLACE SUPPORTS FOR WIRE MESH ON METAL DECK, SO THAT THE MESH IS MAINTAINED IN POSITION 3/4" BELOW THE TOP OF SLAB.
15. METAL DECK SHALL, IN GENERAL, BE FASTENED TO STEEL FRAMEWORK BY WELDING SHEAR STUDS THROUGH THE DECK. IF FIELD WELDED SHEAR STUDS THROUGH METAL DECK ARE NOT CALLED FOR IN SCHEDULE OR ON DRAWINGS,DECK SHALL BE WELDED TO STEEL FRAMEWORK BY PUDDLE WELDS NOT LESS THAN 3/4" DIAMETER, SPACED NOT MORE THAN 1'-0". WHERE SHEAR STUD SPACING EXCEEDS SPECIFIED MAXIMUM DECK WELD SPACING, USE ADDITIONAL PUDDLE WELDS AT 1'-0" BETWEEN STUDS. WHERE 2 UNITS ABUT, EITHER END-TO-END OR SIDE-TO-SIDE, EACH SHALL BE SO FASTENED TO STEEL FRAMING.
16. WELD GIRDER FILLERS TO STEEL BEAM WITH 2" LONG FILLET WELDS AT A MAXIMUM SPACING OF 12 INCHES. CONNECT SIDES OF ADJACENT UNITS WITH 1 1/2" LONG WELDS AT 3'-0" OC MAX.
17. DEFLECTION OF DECK AND/OR STEEL WILL TAKE PLACE WHEN CONCRETE IS POURED. THE SPECIFIED CONCRETE SLAB THICKNESS SHALL BE MAINTAINED AT COLUMN LOCATIONS. SLAB THICKNESS AWAY FROM THE COLUMNS WILL VARY DUE TO BEAM AND DECK DEFLECTIONS. MINIMUM THICKNESS OF CONCRETE REQUIRED MUST BE PROVIDED, AND TOP SURFACES OF SLABS MUST BE CONSTRUCTED WITHIN SPECIFIED TOLERANCES. WHERE THERE IS RESIDUAL CAMBER IN STEEL BEAMS, FINISHED CONCRETE SURFACE SHALL FOLLOW CAMBER OF BEAMS, BUT FINISHED SURFACE SHALL NOT VARY BY MORE THAN 1/4" FROM ONE BEAM TO ANOTHER ADJACENT BEAM, NOR 1/2" TOTAL FOR LENGTH OF FLOOR. CAMBERED BEAMS ARE INTENDED TO DEFLECT TO APPROXIMATELY A STRAIGHT LINE UNDER FULL WEIGHT OF CONCRETE SLAB, IF ALL TOP OF STEEL ELEVATIONS AND CAMBERS ARE AS SPECIFIED IN THE DRAWINGS. THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONDITIONS OF THE PROJECT AND FURNISH THE MATERIALS REQUIRED TO CREATE THE SPECIFIED FLOOR ELEVATION. NO ADJUSTMENT WILL BE MADE TO CONTRACT PRICE FOR ADDITIONAL CONCRETE REQUIRED BECAUSE OF DEFLECTION OF DECK OR STEEL OR DUE TO DIFFERENTIAL CAMBER.
18. NO CONDUITS ALLOWED IN SLABS WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD.
19. DO NOT HANG CONCENTRATED LOAD EXCEEDING 100LB FROM COMPOSITE METAL DECKING. ALL MEP APPURTENANCES EXCEEDING 100LB SHALL BE SUPPORTED BY STEEL BEAMS OR JOISTS.
20. ALL METAL FLOOR DECKING SHALL BE GALVANIZED WITH [G90] COATING CONFORMING TO ASTM A924.



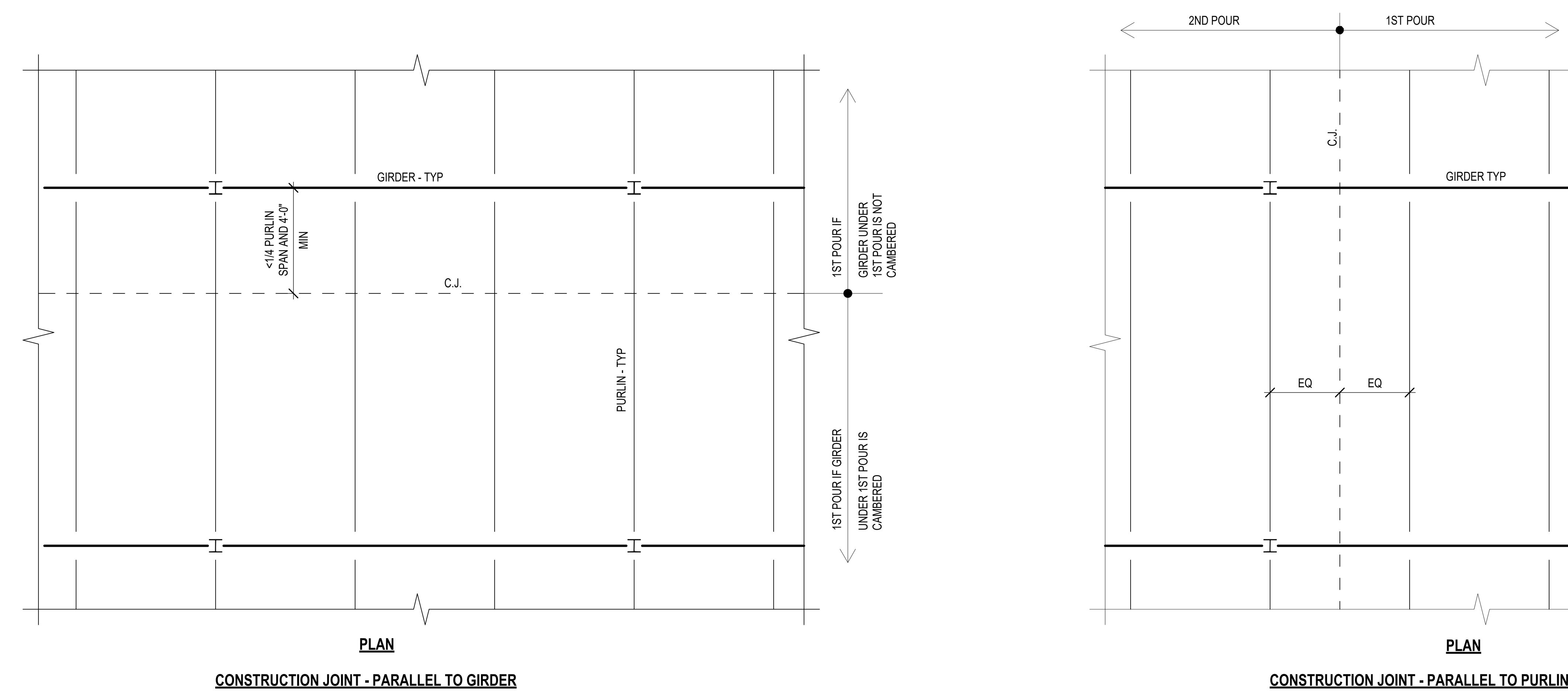
1 TYPICAL COMPOSITE SLAB EDGE DETAIL
NO SCALE



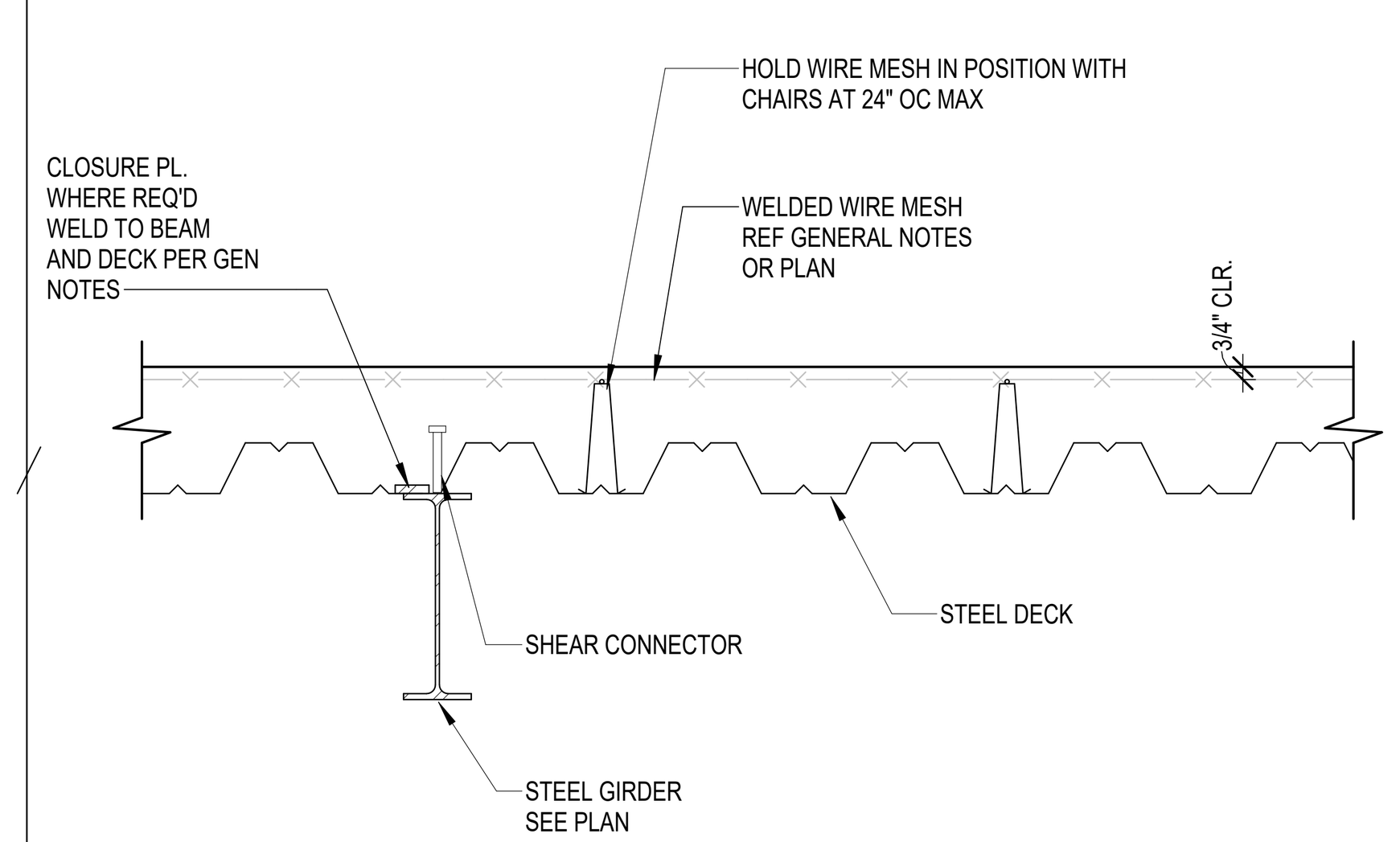
NOTE:

1. REINFORCEMENT SHOWN OVER GIRDERS IS IN ADDITION TO THE TYPICAL SLAB REINFORCEMENT SPECIFIED ON THE DRAWINGS.

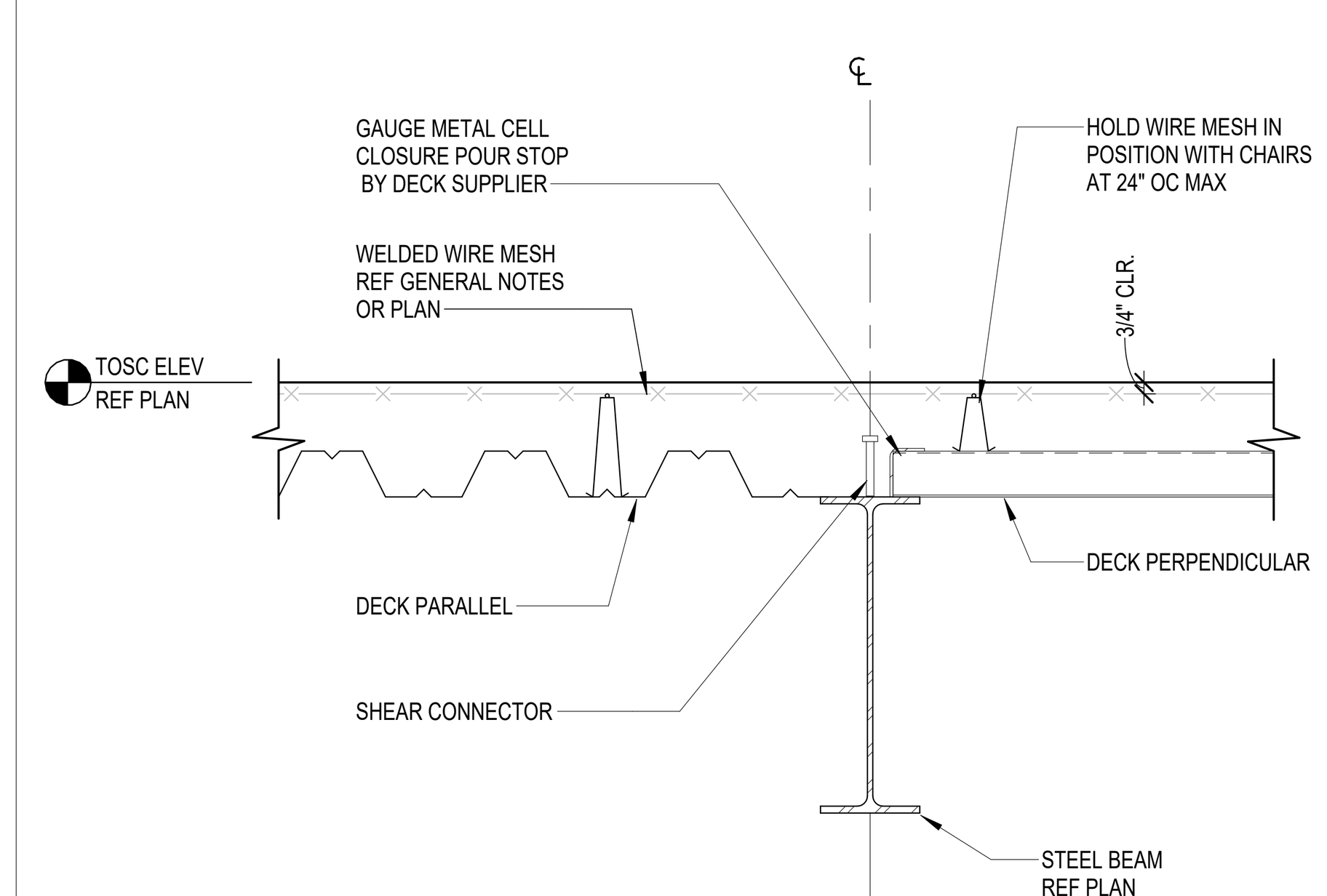
2 TYPICAL DETAIL FOR ADD'L REINF IN COMPOSITE SLAB AT INTERIOR GIRDERS
NO SCALE



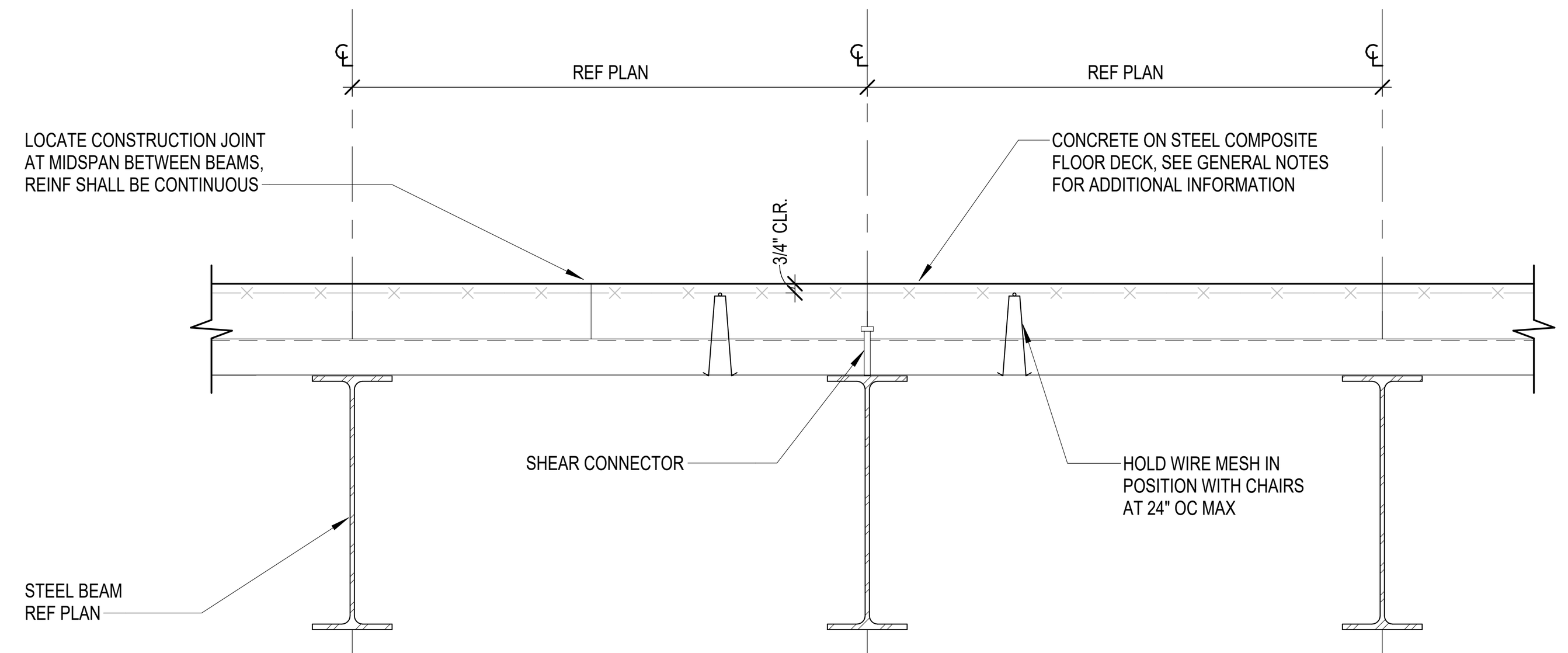
5 TYPICAL DETAIL FOR COMPOSITE SLAB CONSTRUCTION JOINTS
NO SCALE



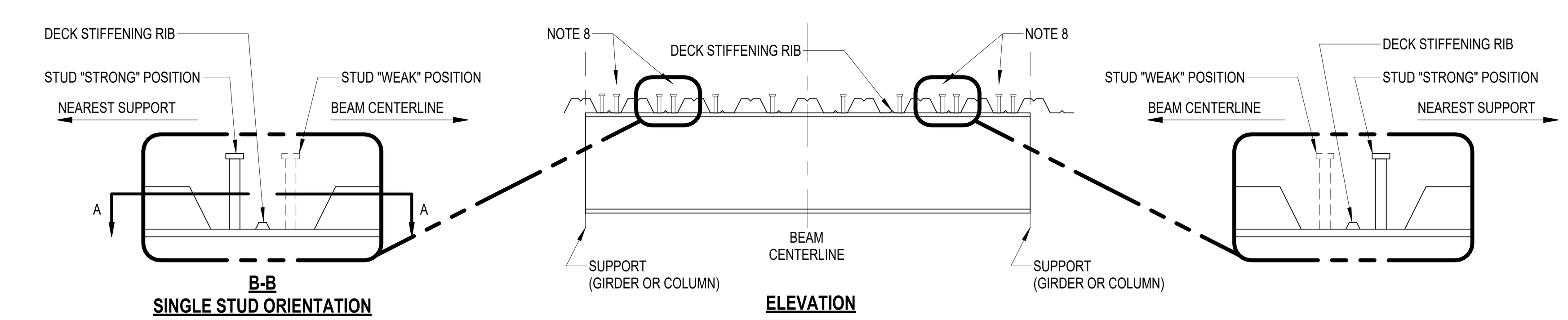
3 TYPICAL DECK PARALLEL TO BEAM
NO SCALE

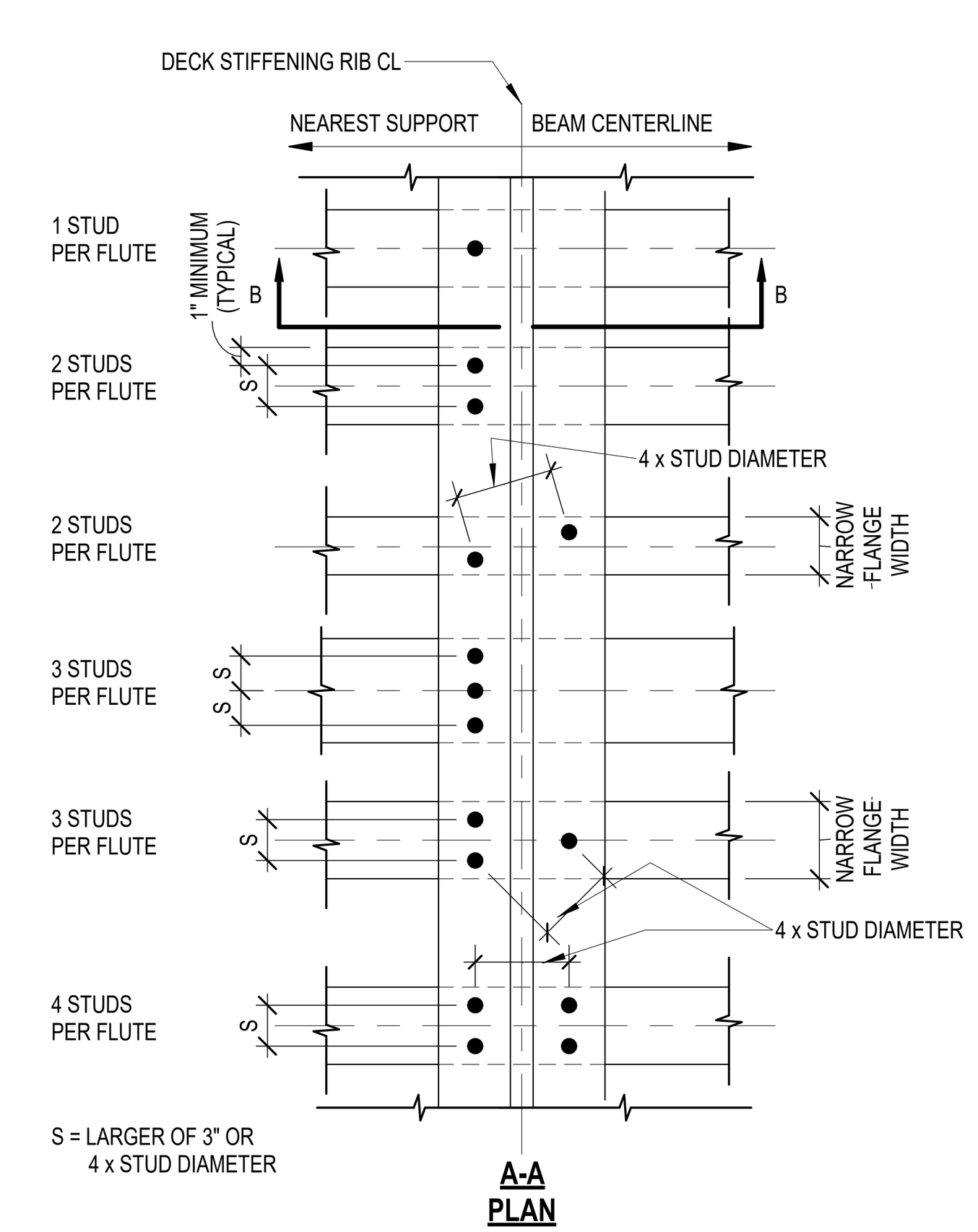


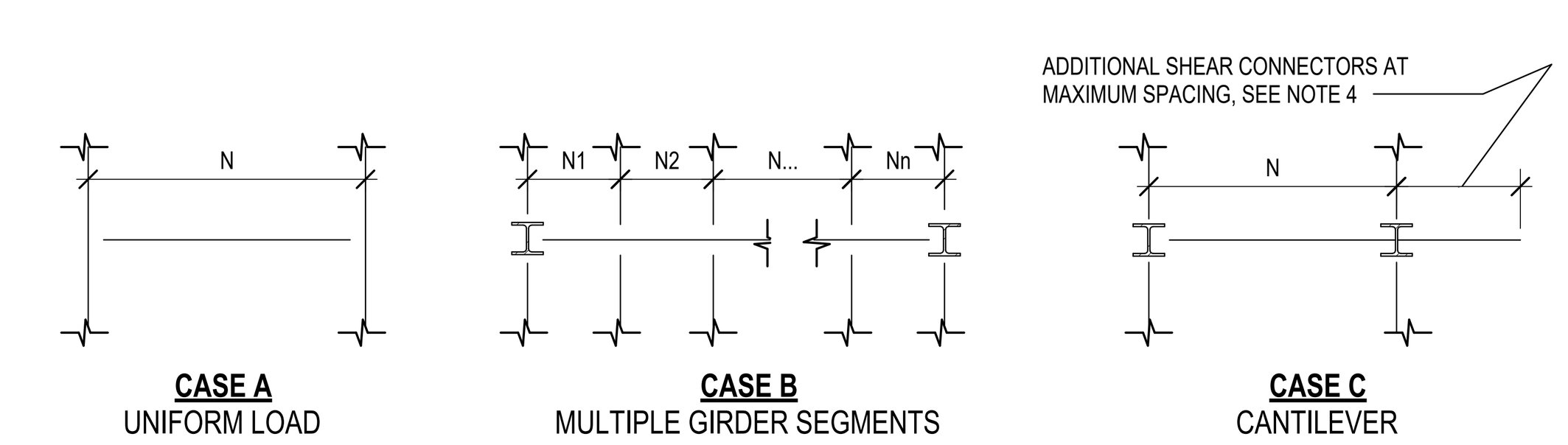
4 TYPICAL DECKING DIRECTION CHANGE
NO SCALE



6 TYPICAL DECK PERPENDICULAR TO BEAM
NO SCALE







NOTES:

1. N = NUMBER OF SHEAR CONNECTORS SPECIFIED ON PLAN. SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN IN CASES A THROUGH C.
2. REFER TO GENERAL NOTES FOR PLAN NOTATION.
3. REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
4. UNLESS NOTED OTHERWISE, ALL BEAMS SHALL HAVE SHEAR CONNECTORS SPACED AT 24" MAXIMUM.
5. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (OR THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
6. CH SHEAR CONNECTOR TO BE PLACED IN "STRONG" POSITION (FURTHEST FROM BEAM CENTERLINE).
7. SHEAR CONNECTORS MAY ONLY BE PLACED IN "WEAK" POSITION WHEN THERE ARE MULTIPLE STUDS PER FLUTE. REFER TO PLAN VIEW AT LEFT FOR PERMISSIBLE CONFIGURATIONS.

SHEAR CONNECTORS HAVE HIGHEST CAPACITIES WHEN PLACED AS SHOWN. IF STUDS ARE NOT PLACED PER THIS DETAIL, 25% MORE STUDS MUST BE INSTALLED. EQUALLY SPACE ADDITIONAL STUDS ALONG THE BEAM.

7 TYPICAL SHEAR CONNECTOR PLACEMENT DIAGRAM - IN STUDS " STRONG" POSITION
NO SCALE

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NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

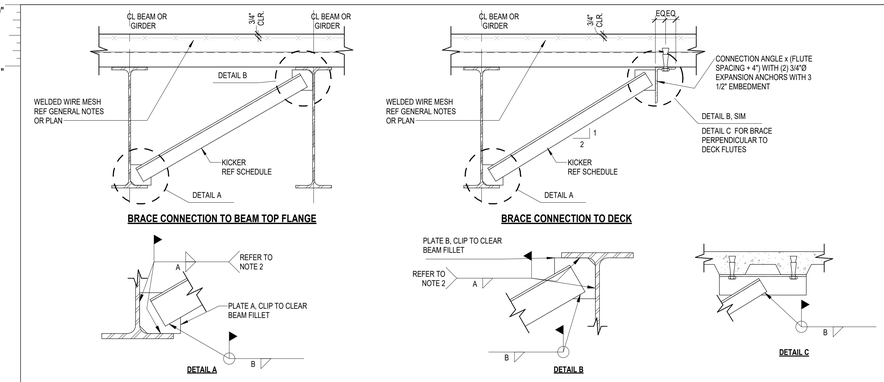
GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS

S-504

Plot Stamp:
12/5/2025 11:52:38 AM

GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS
S-505
FOR BLUEBEAM LABELING/DOOR:

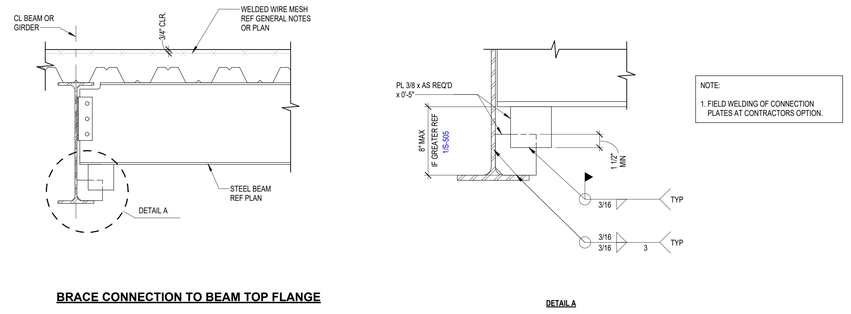
0"
1"



CONNECTION SCHEDULE				
KICKER LENGTH	KICKER SIZE	PLATES A & B	WELDS A & B	CONNECTION ANGLE
UP TO 3'-0"	L2 1/2x2 1/2 x3/16	4x4x3/8	3/16	L3x3x1/4
3'-0" TO 8'-0"	L3x3x1/4	4x4x3/8	3/16	L4x4x1/4
8'-0" TO 12'-0"	L4x4x1/4	5x5x3/8	3/16	N/A
12'-0" TO 16'-0"	L5x5x5/16	6x6x3/8	1/4	N/A

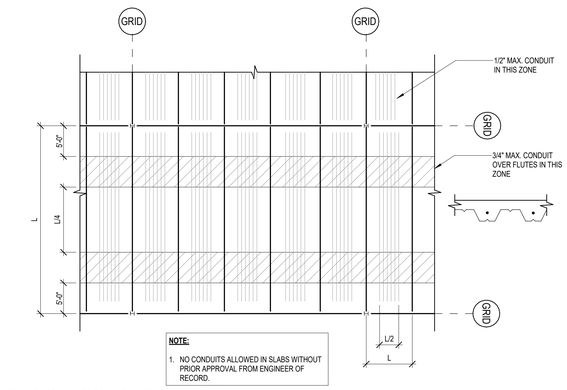
NOTES:
1. REFER TO PLAN AND DETAILS FOR LOCATIONS OF ANGLE BRACES.
2. FIELD WELDING OF CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.

1 TYPICAL BEAM BOTTOM FLANGE BRACE (COMPOSITE CONSTRUCTION)
NO SCALE



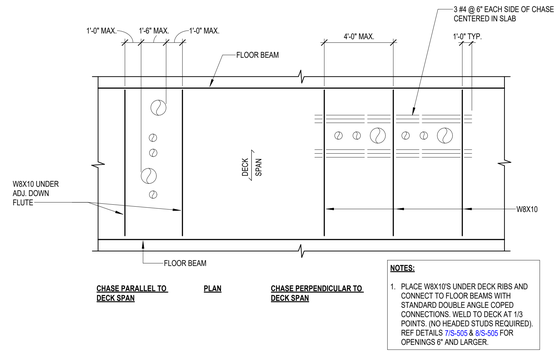
NOTE:
1. FIELD WELDING OF CONNECTION PLATES AT CONTRACTORS OPTION.

2 TYPICAL BEAM BOTTOM FLANGE BRACE (COMPOSITE CONSTRUCTION)
1" = 1'-0"



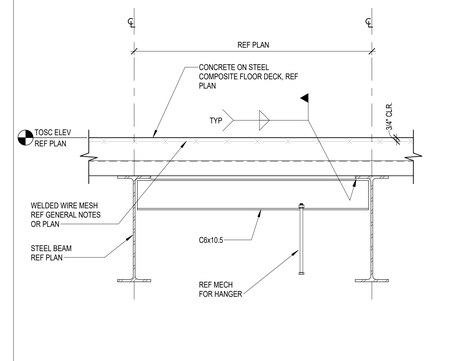
NOTE:
1. NO CONDUITS ALLOWED IN SLABS WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD.

3 TYPICAL CONDUIT LAYOUT
NO SCALE

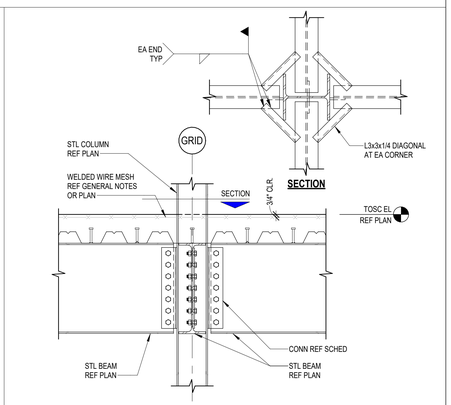


NOTES:
1. PLACE W8X10'S UNDER DECK RIBS AND CONNECT TO FLOOR BEAMS WITH STANDARD DOUBLE ANGLE COPED CONNECTIONS. WELD TO DECK AT 1/3 POINTS. (NO HEADED STUDS REQUIRED). REF DETAILS 7/S-505 & 8/S-505 FOR OPENINGS 6" AND LARGER.

4 TYPICAL DETAIL FOR FLOOR STRENGTHENING AT PLUMBING CHASE
NO SCALE

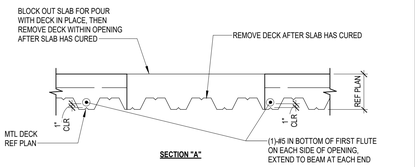


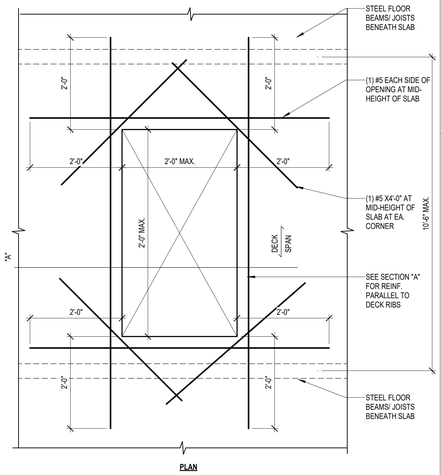
5 TYPICAL MECHANICAL HANGER AT FLOOR
NO SCALE



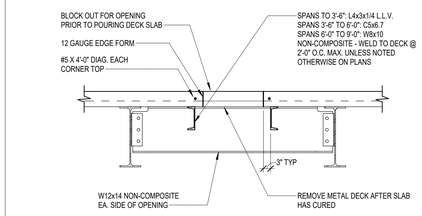
6 TYPICAL DECK SUPPORT AT COLUMN DETAIL
3/4" = 1'-0"

NOTE:
1. REFER TO DETAIL 4/S-505 FOR OPENINGS LESS THAN 6" WIDE UNLESS DETAILED OTHERWISE. FOR OPENINGS LARGER THAN 2'-0" WIDE, PROVIDE BEAM FRAMING PER 8/S-505.

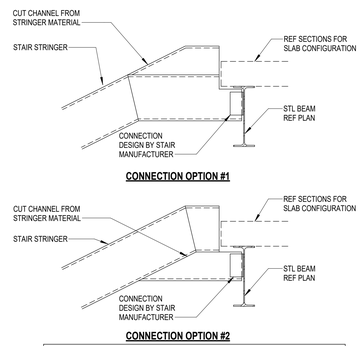




7 TYPICAL DETAIL FOR SMALL MECHANICAL OPENING FROM 6" WIDE TO 24" WIDE IN COMPOSITE SLAB
NO SCALE

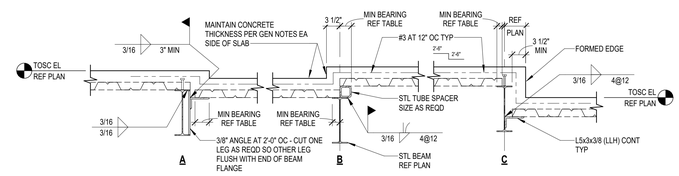


8 TYPICAL DETAIL FOR LARGE MECHANICAL OPENING IN COMPOSITE SLAB OVER 2'-0" PERPENDICULAR TO DECK SPAN
NO SCALE



THE DESIGN OF THE STAIR CONNECTIONS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE STAIR SUPPLIER. OTHER OPTIONS MAY BE ACCEPTABLE. HOWEVER THE LOAD MUST BE DELIVERED TO THE STRUCTURAL STEEL AND NOT THE SLAB EDGE.

9 TYPICAL CONNECTION OPTIONS FOR STAIR STRINGER TO STRUCTURAL STEEL
3/4" = 1'-0"



NORMAL WEIGHT CONCRETE				
	MINIMUM BEARING LENGTH REQUIRED			
	SLAB DEPTH ABOVE FLUTES			
DECK TYPE	2 1/2	3	3 1/2	4 1/2
3 VLI 22	2 1/2	2 1/2	2 1/2	2 1/2
3 VLI 20	2 1/2	2 1/2	2 1/2	2 1/2
2 VLI 22	2	2	2	2
2 VLI 20	1 1/2	1 1/2	1 1/2	2
2 VLI 18	1 1/2	1 1/2	1 1/2	2

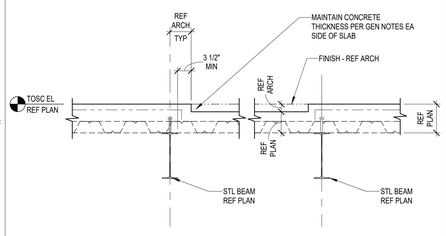
NOTE :
MINIMUM BEARING FOR ALL DECK TYPES AND SLAB THICKNESSES IS 1 1/2" UNLESS LISTED IN THE TABLE ABOVE.

LIGHTWEIGHT CONCRETE				
	MINIMUM BEARING LENGTH REQUIRED			
	SLAB DEPTH ABOVE FLUTES			
DECK TYPE	2 1/2	3	3 1/2	4 1/4
3 VLI 22	2 1/2	2 1/2	2 1/2	2 1/2
3 VLI 20	2	2 1/2	2 1/2	2 1/2
2 VLI 22	1 1/2	2	2	2

NOTE :
MINIMUM BEARING FOR ALL DECK TYPES AND SLAB THICKNESSES IS 1 1/2" UNLESS LISTED IN THE TABLE ABOVE.

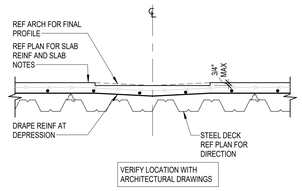
10 TYPICAL FLOOR DECK SUPPORTS AT SLAB OFFSETS
3/4" = 1'-0"

SEE 10/S-505 FOR INFO NOT SHOWN



11 TYPICAL FLOOR DECK SUPPORTS AT SLAB OFFSETS
3/4" = 1'-0"

NOTE:
1. PROVIDE EXTRA HORIZ REINF AT EACH SIDE OF DRAIN EQUAL TO REINFORCING INTERRUPTED BY DRAIN DEPRESSION



VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

12 TYPICAL SLAB RECESS AT COMPOSITE SLAB
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:52:39 AM

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1000 Keene St.
Galena Park, TX 77547

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

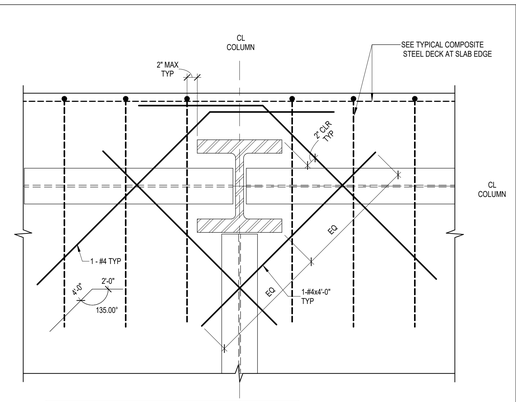
GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS

S-505

TYPICAL STEEL DECK DETAILS
S-506

FOR BLUEBEAM LABELING/DOOR:

0"
1"

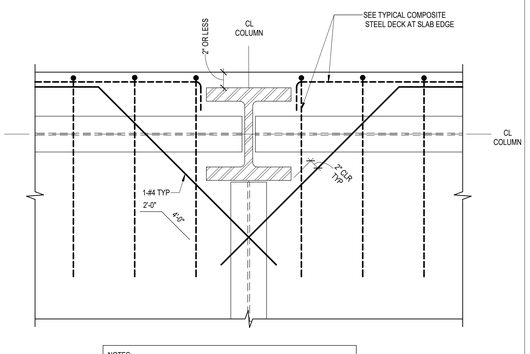


NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

1 TYPICAL SLAB REINFORCEMENT AT EDGE COLUMN, SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN
1" = 1'-0"

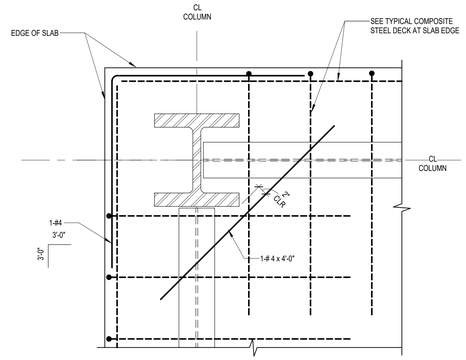


NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

2 TYPICAL SLAB REINFORCEMENT AT EDGE COLUMN, SLAB EDGE EXTENDS LESS THAN 2" BEYOND FACE OF COLUMN
1" = 1'-0"

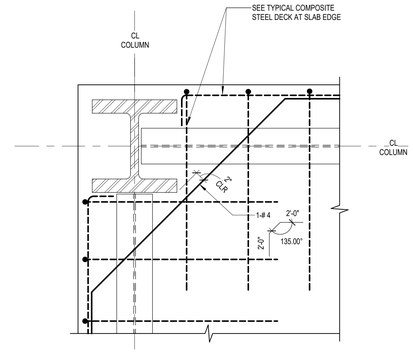


NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

3 TYPICAL SLAB REINFORCEMENT AT CORNER COLUMN, SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN
1" = 1'-0"

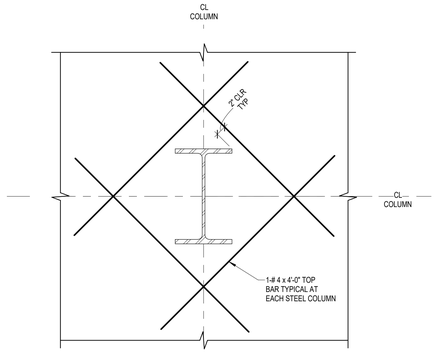


NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

4 TYPICAL SLAB REINFORCEMENT AT EDGE COLUMN, SLAB EDGE EXTENDS LESS THAN 2" BEYOND FACE OF COLUMN
1" = 1'-0"

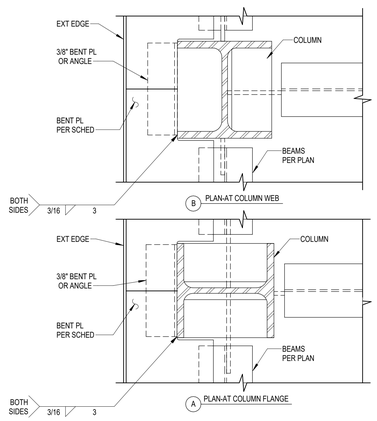


NOTES:

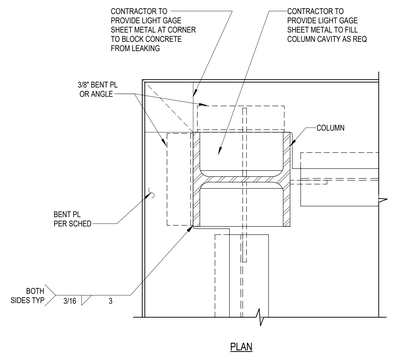
1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

5 TYPICAL SLAB REINFORCEMENT AT INTERIOR COLUMN
1" = 1'-0"

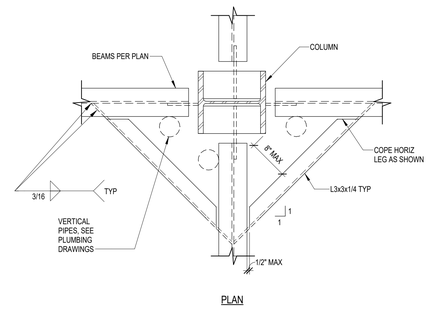


6 EDGE OF DECK AT EXTERIOR COLUMN
1" = 1'-0"



PLAN

7 EDGE OF DECK AT EXTERIOR CORNER COLUMN
1" = 1'-0"



PLAN

8 OPENINGS ADJACENT TO COLUMN
1" = 1'-0"

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JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI

DRAWN BY: CML

TYPICAL STEEL DECK DETAILS

S-506

Plot Stamp:
12/5/2025 11:52:40 AM

GENERAL STEEL NOTES AND TYP DETAILS
S-507
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

STEEL JOIST FRAMING:

1. OPEN WEB STEEL JOISTS SHALL BE DESIGNED, MANUFACTURED AND ERECTED PER THE LATEST STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS. JOISTS SHALL BE CAMBERED FOR DEAD LOAD. PROVIDE THE STANDARD SJI AMOUNT OF CAMBER UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE JOIST SUPPLIER SHALL ADJUST CAMBERS AT JOISTS ADJACENT TO EACH OTHER THAT HAVE VARYING LENGTHS AND AT JOISTS ADJACENT TO STEEL BEAMS WITH SET ELEVATIONS SO THAT THE ELEVATIONS FOR ADJACENT MEMBERS, PRIOR TO ERECTION OF DECK, DO NOT VARY BY MORE THAN 1".

2. STAGGER JOISTS ENDS AS REQUIRED (AT NARROW BEAMS) IN ORDER TO ACHIEVE 2 1/2 INCH MINIMUM BEARING. HORIZONTAL AND DIAGONAL BRIDGING SHALL BE PROVIDED PER SJI SPECIFICATIONS, AND SHALL BE WELDED TO STEEL BEAMS AND DECK SUPPORT ANGLES AT ENDS.

3. AT JOIST SPANS WHERE REQUIRED BY SJI, BOLTED DIAGONAL BRIDGING NEAREST THE CENTER OF THE SPAN SHALL BE INSTALLED AT EACH JOIST PRIOR TO THE SLACKENING OF HOIST LINES. FOR JOISTS THAT SPAN 40 FEET AND GREATER, THE JOIST SHALL HAVE ALL JOISTS BOLTED TO THE SUPPORT AT EACH END.

4. FOR THE THREE JOISTS NEAREST EACH COLUMN, THE BOTTOM CHORDS SHALL BE EXTENDED. BOTTOM CHORD EXTENSION CONNECTIONS SHALL NOT BE MADE UNTIL AFTER THE FULL DEAD LOAD IS APPLIED. A 6 INCH x 6 INCH STABILIZER PLATE SHALL BE PROVIDED IN ORDER TO RECEIVE THE JOIST BOTTOM CHORDS AT ALL COLUMN LOCATIONS. THE PLATE SHALL EXTEND A MINIMUM OF 3" BELOW THE BOTTOM OF THE BOTTOM CHORDS. PROVIDE A 13/16" DIAMETER HOLE IN THE STABILIZER PLATE FOR GUYING CABLES.

5. JOISTS THAT REQUIRE REPAIRS OR MODIFICATIONS DUE TO FABRICATION ERRORS OR TO DAMAGES CAUSED DURING THE SHIPPING PROCESS, SHALL BE REPLACED WITH NEW JOISTS.

6. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

7. PROVIDE STANDARD DEPTH OF BEARING FOR ALL JOISTS AS SHOWN BELOW UNLESS NOTED OTHERWISE ON THE DRAWING OR DICTATED BY JOIST SLOPE:
   A. ALL K SERIES: 2 1/2" DEEP
   B. LH SERIES WITH JOIST SECTION NUMBER LESS THAN 18: 5" DEEP
   C. ALL DLH SERIES JOIST AND LH SERIES JOIST WITH SECTION NUMBER GREATER THAN 18: 7 1/2" DEEP
   D. WHERE JOISTS WITH DIFFERENT SEAT DEPTHS BUT THE SAME TOP OF JOIST ELEVATION BEAR ON THE SAME SUPPORTING ELEMENT, PROVIDE THE DEEPER JOIST SEAT FOR ALL JOIST BEARING ON THAT ELEMENT UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE CONTRACT DOCUMENTS.

8. UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS, WELD ALL JOIST SEATS TO THE SUPPORTING STRUCTURAL STEEL OR TO BEARING PLATES IN CONCRETE OR MASONRY AS FOLLOWS:
   A. K-SERIES JOISTS: 2 1/2 INCH LONG FILLET WELDS EACH SIDE OF JOIST SEAT WITH A THICKNESS EQUAL TO THE STEEL THICKNESS OF THE JOIST SEAT. (1/8" FILLET WELD MINIMUM)
   B. LH & DLH-SERIES JOISTS: 2 1/2 INCH LONG FILLET WELDS FOR JOIST SECTIONS NUMBER 02 THROUGH 17 AND 4 INCH LONG FILLET WELDS FOR JOIST SECTIONS NUMBER 18 THROUGH 25 EACH SIDE OF JOIST SEAT WITH A THICKNESS EQUAL TO THE STEEL THICKNESS OF THE JOIST SEAT. (3/16" FILLET WELD MINIMUM FOR JOISTS WITH SECTION NUMBER LESS THAN 07 AND 1/4" FILLET WELD MINIMUM FOR JOISTS WITH SECTION NUMBER 07 THROUGH 25).
   C. IN ADDITION TO THE WELDED CONNECTION FOR ALL JOISTS, PROVIDE AN ADDITIONAL BOLTED CONNECTION AT JOISTS WHERE REQUIRED BY OSHA STANDARDS OR THE STEEL JOIST INSTITUTE'S STANDARD SPECIFICATIONS.

9. WHERE JOISTS BEAR ON ONE SIDE OF A MASONRY WALL, JOIST SEATS SHALL BE OF SUFFICIENT DEPTH THAT WILL ALLOW THE JOIST REACTION TO ALIGN ON THE CENTER OF THE MASONRY WALL.

10. HANGERS SUPPORTING MECHANICAL EQUIPMENT, SPRINKLER LINES, ETC., FROM THE CHORD OF STEEL JOISTS, SHALL BE LOCATED AT THE PANEL POINTS OF THE JOISTS OR THE JOIST CHORD SHALL BE REINFORCED TO SUPPORT THE ADDITIONAL LOAD, EXCEPT AS FOLLOWS. HANGERS SUPPORTING LESS THAN 50 POUNDS FROM THE BOTTOM CHORD OR 150 POUNDS FROM THE TOP CHORD DO NOT HAVE TO BE PLACED AT PANEL POINTS. DO NOT SUSPEND ANYTHING FROM JOIST BRIDGING.

11. PROVIDE JOIST BRIDGING IN COMPLIANCE WITH THE CURRENT EDITION OF THE STEEL JOIST INSTITUTE'S STANDARD SPECIFICATIONS, UNLESS A MORE STRINGENT REQUIREMENT FOR BRIDGING IS REQUIRED BY THE CONTRACT DOCUMENTS.
   A. WHERE THE SPECIFIED WIND UPLIFT LOAD (REF GENERAL NOTES) RESULTS IN COMPRESSION IN THE JOIST BOTTOM CHORD, PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO BRACE THE BOTTOM CHORD.
   B. WHERE JOISTS ARE EXPOSED, CONTRACTOR SHALL COORDINATE BRIDGING WITH REQUIREMENTS OF OTHER TRADES SUCH AS MECHANICAL DUCTS, LIGHTING, ETC. IF NECESSARY FOR COORDINATION WITH OTHER TRADES, PROVIDE ADDITIONAL ROWS OF BRIDGING ABOVE THE MINIMUM REQUIREMENTS OF THE STEEL JOIST INSTITUTE'S STANDARD SPECIFICATIONS.
   C. AT LOCATIONS WHERE BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUED FOR ONE JOIST SPACING FOR ANY REASON, PROVIDE DIAGONAL BRIDGING BETWEEN ADJACENT TWO JOISTS ON EACH SIDE.

12. SEE ROOF PLANS FOR JOIST TOP CHORDS TO BE DESIGNED AS DRAG STRUTS FOR HORIZONTAL FORCES (NOTED H = _____ KIPS) IN COMBINATION WITH GRAVITY LOADS. THIS FORCE MAY BE EITHER COMPRESSION OR TENSION. STRESSES MAY NOT BE INCREASED FOR WIND.

13. IF BEAM FLANGES ARE NOT WIDE ENOUGH TO ACCOMMODATE BEARING SEATS FROM BOTH SIDES, JOISTS MAY BE OFFSET AND SEATS OVERLAPPED. CONTRACTOR TO COORDINATE DECK LAYOUT SO END LAPS ALWAYS OCCUR OVER JOISTS. JOISTS ON COLUMN LINES MUST STILL BRACE COLUMNS WITH EXTENDED BOTTOM CHORDS.

ETV NOTE 14

14. WHERE JOIST TOP CHORD EXTENSIONS ARE INDICATED, DESIGN THE EXTENSION FOR A CONCENTRATED DEAD LOAD AT THE END OF 150 POUNDS AND A UNIFORM LOAD EQUAL TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS WITH THE EXTENSIONS. SIZE EXTENSIONS TO LIMIT DEFLECTION TO THE LESSER OF 3/8" OR L/180 FOR LIVE LOAD OR L/120 FOR TOTAL LOAD, WHERE "L" IS THE LENGTH OF THE EXTENSION.

15. STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED FOR A NET UPLIFT EQUAL TO THE UPWARD COMPONENT AND CLADDING WIND PRESSURES SHOWN ON THE STRUCTURAL DRAWINGS MINUS 3 PSF OF DEAD LOAD(0.6D). STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL ALSO BE DESIGNED FOR AN ADDITIONAL DOWN WIND FORCE RESULTING FROM POSITIVE WIND ROOF COMPONENTS AND CLADDING PRESSURE AS SHOWN ON THE STRUCTURAL DRAWINGS. DOWN FORCE WIND LOADING IN COMBINATION WITH DEAD AND LIVE LOADS MAY CONTROL THE DESIGN OF THESE ELEMENTS.

16. PROVIDE ALL NECESSARY ERECTION BOLTS, STABILIZER PLATES, BOTTOM CHORD CONNECTIONS, ERECTION BRIDGING, ETC., IN COMPLIANCE WITH OSHA REGULATIONS GOVERNING SAFETY IN THE WORKPLACE. CONNECTION DETAILS SHOWN ARE ADEQUATE FOR FINAL IN PLACE CONDITIONS AND DO NOT NECESSARILY PROVIDE FOR CONSTRUCTION SAFETY.

17. ALL STEEL SHALL BE DOMESTICALLY (INCLUDING CANADA) MILLED AND FABRICATED. FOREIGN STEEL SHALL NOT BE UTILIZED WITH OUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE APPROVAL PROCESS SHALL TAKE PLACE DURING BIDDING TIME. ANY REQUEST TO UTILIZE FOREIGN STEEL MADE AFTER BIDDING SHALL BE REJECTED.

18. OPEN WEB STEEL JOIST SUPPLIER IS TO SUBMIT SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF A LICENSED ENGINEER IN THE STATE IN WHICH THE PROJECT IS BEING PERFORMED TO THE ARCHITECT/ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. SEE THE SPECIFICATIONS FOR OTHER SUBMITTAL REQUIREMENTS.

19. FOR OPEN WEB JOISTS, SOME U.L. RATINGS REQUIRE SPECIAL SIZES. THE JOIST MANUFACTURER SHALL VERIFY AND RE-DESIGN ANY/ALL JOISTS AS REQUIRED, TO MEET THE U.L. FIRE RESISTANCE DIRECTORY.

20. GENERAL RTU WEIGHTS AND LOCATIONS ARE PROVIDED IN THE CONTRACT DOCUMENTS. THE JOIST SIZES DESIGNATED ON THE FRAMING PLAN AND THE JOIST GIRDER PANEL POINT LOADS DO NOT TAKE INTO ACCOUNT THE RTU WEIGHTS. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THE WEIGHT OF THE RTU'S IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS AT THE RTU LOCATIONS. JOISTS SUPPORTING RTU'S SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. THE RTU WEIGHTS SHALL ALSO BE ADDED TO THE JOIST GIRDER PANEL POINT LOADS PROVIDED IN THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE FINAL RTU LOCATIONS, WEIGHTS AND SIZES WITH THE JOIST MANUFACTURER AND NOTIFY THE ENGINEER OF ANY CHANGES FROM WHAT IS INDICATED IN THE CONTRACT DOCUMENTS. ROOF MOUNTED MECHANICAL UNIT LOCATIONS ARE SHOWN ON THE ROOF FRAMING PLANS. PROVIDE ADDITIONAL STEEL FRAMING, AS DETAILED, FOR SUPPORT OF RTU CURBS AND PROVIDE DECK SUPPORT ANGLES AT ALL ROOF OPENINGS.

21. UNLESS INDICATED OTHERWISE, THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS AND THE JOIST GIRDER PANEL POINT LOADS DO NOT TAKE INTO ACCOUNT THE WEIGHT OF VARIOUS ITEMS SUCH AS, BUT NOT LIMITED TO, OPERABLE PARTITIONS, BASKETBALL GOALS, SCORE BOARDS, MECHANICAL EQUIPMENT, MECHANICAL EQUIPMENT SUPPLY AND RETURN PIPING, ELECTRICAL EQUIPMENT, ETC. THE MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THE WEIGHT OF THESE ITEMS IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS AT THE LOCATION OF THESE ITEMS. JOISTS SUPPORTING THESE ITEMS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. THE ITEM WEIGHTS SHALL ALSO BE ADDED TO THE JOIST GIRDER PANEL POINT LOADS PROVIDED IN THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF THESE ITEMS, AND THEIR WEIGHTS AND SIZES WITH THE JOIST MANUFACTURER AND NOTIFY THE ENGINEER OF ANY CHANGES FROM WHAT IS INDICATED ON THE FRAMING PLANS.

22. THE JOIST DESIGNATED ON THE FRAMING PLANS AND THE JOIST GIRDER PANEL POINT LOADS DO NOT TAKE INTO ACCOUNT THE COLUMN LOADS ASSOCIATED WITH THE ROOF SCREENS INDICATED IN THE CONTRACT DOCUMENTS. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS AND JOIST GIRDERS TO SUPPORT THE CONCENTRATED LOADS AND MOMENTS INDICATED IN THE ROOF SCREEN DETAILS AT EACH ROOF SCREEN COLUMN IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS AT THE ROOF SCREEN COLUMN LOCATIONS. JOISTS SUPPORTING ROOF SCREEN COLUMNS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. THE ROOF SCREEN COLUMN LOADS SHALL ALSO BE ADDED TO THE JOIST GIRDER PANEL POINT LOADS PROVIDED IN THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE FINAL ROOF SCREEN COLUMN LOCATIONS WITH THE JOIST MANUFACTURER AND NOTIFY THE ENGINEER OF ANY CHANGES FROM WHAT IS INDICATED ON THE FRAMING PLANS.

23. IN ADDITION TO AND SIMULTANEOUSLY WITH OTHER SPECIFIED LOADS, DESIGN JOISTS AND JOIST GIRDERS FOR THE FOLLOWING CONCENTRATED LOADS:
   A. DESIGN JOISTS AND JOIST GIRDERS FOR A CONCENTRATED LOAD AND ANY OTHER SPECIFIED LOADS AT ANY ONE TOP OR BOTTOM CHORD PANEL POINT AS FOLLOWS:
      1. FLOOR AND ROOF JOISTS: 300 POUNDS
      2. FLOOR AND ROOF JOIST GIRDERS: 500 POUNDS
   B. DESIGN CHORDS FOR SHEARS AND MOMENTS INDUCED IN THE CHORDS AS A RESULT OF ALL OR A PORTION OF THESE CONCENTRATED LOADS AND ANY OTHER SPECIFIED LOADS BEING LOCATED AT ANY POINT BETWEEN ANY TWO ADJACENT PANEL POINTS AS FOLLOW:
      1. FLOOR AND ROOF JOISTS:
         a. TOP CHORD: 300 POUNDS
         b. BOTTOM CHORD: 50 POUNDS
      2. FLOOR AND ROOF JOIST GIRDERS:
         a. TOP CHORD: 500 POUNDS
         b. BOTTOM CHORD: 500 POUNDS
   C. ALL LOADS HANGING FROM THE JOIST BOTTOM CHORD SHALL BE CENTERED ON THE JOIST CHORD AND ATTACHED TO ALL ELEMENTS OF MULTI-ELEMENT BOTTOM CHORDS. CLAMP TYPE HANGERS ARE NOT ALLOWED UNLESS SPECIFICALLY AUTHORIZED BY THE JOIST MANUFACTURER'S ENGINEER.

24. UNLESS INDICTED OTHERWISE, SPECIAL JOISTS SUPPORTING OPERABLE PARTITIONS SHALL BE DESIGNED FOR A MAXIMUM DEFLECTIONS DUE TO THE LIVE LOAD AND OPERABLE PARTITION WEIGHT OF L/360. HOWEVER, THE CONTRACTOR SHALL COORDINATE WITH THE SELECTED OPERABLE PARTITION MANUFACTURER TO DETERMINE IF A MORE RESTRICTIVE DEFLECTION LIMIT IS REQUIRED BY THE MANUFACTURER FOR INSTALLATION PURPOSES AND TO MAINTAIN PROPER OPERATION OF THE PARTITION.

25. THE FRAMING PLANS AND DETAILS IN THE CONTRACT DRAWINGS MAY SHOW THE JOIST ALIGNED IN ADJACENT SPANS WITH BUTTED SEATS. IF THE SUPPORTING STEEL BEAM OR EMBEDDED BEARING PLATE IN THE CONCRETE/MASONRY WALL IS NOT WIDE ENOUGH TO ALLOW BUTTED SEATS AND MEET THE MINIMUM STEEL JOIST INSTITUTE SPECIFICATIONS FOR MINIMUM BEARING LENGTH, THEN THE SEATS SHALL BE LAPPED. THE CONTRACTOR SHALL COORDINATE THE FINAL JOIST LOCATIONS AND THE METAL DECK SPANS.

26. THE JOIST DEPTH AT THE ENDS OF JOIST DESIGNATED AS DOUBLE OR TRIPLE PITCHED SHALL BE THE DEPTH SPECIFIED ON THE FRAMING PLANS. THE DEPTH AT THE RIDGE OF THESE JOIST SHALL BE THE SPECIFIED DEPTH PLUS THE CHANGE IN TOP OF STEEL ELEVATION BETWEEN THE END OF THE JOIST AND THE RIDGE.

METAL ROOF DECKING:

1. METAL ROOF DECK OF SIZE NOTED ON PLANS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

ETV
ENGINEER TO VERIFY DECK GAUGE AT WIND-BORNE DEBRIS REGION, USE MIN 20 GAUGE

METAL DECK SCHEDULE (ETV)

DECK DESIGNATION	DECK GAUGE	SDI DECK TYPE	DECK DEPTH (IN)	Ie+ (IN4)	Ie- (IN4)	Se+ (IN3)	Se- (IN3)	Fy (KSI)	METAL DECK CONNECTION SCHEDULE: FASTEN DECK TO SUPPORT MEMBERS — ATTACHMENT PATTERN (W/N)	FASTEN DECK TO SUPPORT MEMBERS — SUPPORT FASTENERS	SIDELAP FASTENERS
1.0 CSV	20	CONFORM	0.9375	0.088	0.088	0.167	0.165	60	36/6	5/8" PUDDLE WELD	6#12 TEK SCREWS
1.5 B	20	WIDE RIB	1.5	0.201	0.201	0.234	0.247	50	36/7	5/8" PUDDLE WELD	6#12 TEK SCREWS
3PLN-32	20	WIDE RIB	3	0.806	0.886	0.448	0.476	50	32/8	5/8" PUDDLE WELD	6#12 TEK SCREWS

Ie+: POSITIVE EFFECTIVE MOMENT OF INERTIA
Ie-: NEGATIVE EFFECTIVE MOMENT OF INERTIA
Se+: POSITIVE EFFECTIVE SECTION MODULUS
Se-: NEGATIVE EFFECTIVE SECTION MODULUS
FY:YIELD STRENGTH
W/N: SHEET WIDTH / NUMBER OF CONNECTIONS EACH SHEET

ETV
Deck Design Tools can be found here: https://vulcraft.com/resources/designtools
Ensure that deck specified and support spacing shown pass all deck design checks & meet fire rating requirements.
Additional materials can be found here: S:\Technical Resources\003 - KE's Schedules\Steel Deck Schedules

2. SEE ROOF FRAMING PLAN FOR ROOF DECK SIZES.

3. THE METAL ROOF DECK ON THIS PROJECT IS REQUIRED TO PERFORM AS A STRUCTURAL DIAPHRAGM. ALL WELDS AND SCREWS ARE CRITICAL TO THE SUCCESSFUL PERFORMANCE OF THE DIAPHRAGM.

4. STEEL ROOF DECK (WITH RIGID INSULATION BOARD):
   4.1. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB, TYPE B DECK CONFORMING TO ASTM A611 OR A653-99 WITH Fy=33 KSI. DECK SHALL BE GALVANIZED, CONFORMING TO ASTM A924, WITH A MINIMUM ZINC COATING CLASS OF G90 PER ASTM A653-99. DECK SHALL HAVE A MINIMUM MOMENT OF INERTIA OF 0.155 INCH TO THE FOURTH PER FOOT OF WIDTH. FASTEN SIDELAPS WITH #10 TEK SCREWS: ONE AT MIDSPAN OR 3'-0" ON CENTER MAX. WELD DECK THROUGH 5/8" DIAMETER PUDDLE WELDS TO EACH STRUCTURAL SUPPORTING MEMBER AT 1'-0" ON CENTER AT END LAPS AND AT INTERMEDIATE SUPPORTS. AT SPANDREL BEAMS AND DECK SUPPORT ANGLES, AND FOR A 10'-0" SQUARE AREA AT ROOF CORNERS, THE DECK SHALL BE WELDED TO ALL SUPPORTS AT 6" ON CENTER.

4. STEEL ROOF DECK (WITH LIGHTWEIGHT INSULATION FILL):
   4.1. LIGHTWEIGHT INSULATION CONCRETE FILL USED OVER ROOF DECKING SHALL HAVE A MIX RATIO OF ONE SACK PORTLAND CEMENT TO SIX CUBIC FEET OF LIGHTWEIGHT CONCRETE AGGREGATE. PERLITE OR VERMICULITE AGGREGATE MUST CONFORM TO ASTM C332. PERLITE SHALL HAVE A MAXIMUM WET DENSITY OF 42 POUNDS PER CUBIC FOOT (PCF), AND VERMICULITE SHALL HAVE A MAXIMUM WET DENSITY OF 60 PCF AT THE POINT OF DISCHARGE. BOTH SHALL HAVE A MAX DRY DENSITY OF 32 PCF, AND MUST HAVE A COMPRESSIVE STRENGTH (f'c) OF 300 PSI IN 28 DAYS.
   4.2. ROOF DECK SHALL BE CORRUGATED DECK CONFORMING TO ASTM A611 OR A653-99 WITH Fy=60 KSI. DECK SHALL BE GALVANIZED, CONFORMING TO ASTM A924, WITH A MINIMUM ZINC COATING CLASS OF G90 PER ASTM A653-99. DECK SHALL BE 22 GAGE METAL FORMS, 1" DEEP WITH VENTING SLOTS IN VALLEY OF EACH CORRUGATION. DECK SHALL HAVE A MINIMUM SECTION MODULUS OF 0.130 INCHES CUBED PER FOOT OF WIDTH. FASTEN SIDELAPS WITH #10 TEK SCREWS. WELD DECK TO EACH STRUCTURAL SUPPORTING MEMBER AT EVERY OTHER CORRUGATION AT END LAPS AND AT INTERMEDIATE SUPPORTS. AT SPANDREL BEAMS AND DECK SUPPORT ANGLES, AND FOR A 20'-0" SQUARE AREA AT ROOF CORNERS, THE DECK SHALL BE WELDED TO ALL SUPPORTS AT EVERY CORRUGATION OR 6" ON CENTER MAXIMUM.
   4.3. THE THICKNESS OF THE LIGHTWEIGHT CONCRETE FILL SHALL BE AS SPECIFIED BY THE ARCHITECT. HOWEVER, THE THICKNESS SHALL NOT EXCEED 2.5 INCHES. ROOF SLOPES THAT ARE NOT REFLECTED IN THE SLOPE OF THE STRUCTURAL FRAMING, SUCH AS AT SMALL AREAS, CRICKET AND THE EDGES OF THE ROOF, SHALL BE IMPLEMENTED BY VARYING THE INSULATION THICKNESS IN LIEU OF VARYING THE THICKNESS OF THE LIGHTWEIGHT CONCRETE FILL. DO NOT EXCEED THE MAXIMUM SPECIFIED THICKNESS OF LIGHTWEIGHT CONCRETE FILL.

5. THE STEEL DECK SHALL ALWAYS BE INSTALLED WITH THE DIRECTION OF FLUTES PERPENDICULAR TO THE FRAMING MEMBERS. THE DECK SHALL BE CUT TO ENSURE A MINIMUM OF THREE SPANS PER DECK WIDTH.

6. IN ADDITION TO THE DECK CONNECTIONS INDICATED IN THE CONNECTION SCHEDULE, THE DECK SHALL BE CONNECTED AT EACH FLUTE AT EACH SUPPORT WITHIN THE FIRST 10 FEET FROM THE BUILDING PERIMETER.

7. ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE SUPPORTS. AT LOCATIONS WHERE SINGLE OR DOUBLE SPAN CONDITIONS OCCUR, THE CONTRACTOR SHALL EITHER SHORE THE DECK, OR ADJUST THE GAGE THICKNESS OF THE DECK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORT OVER FOUR SUPPORTS.

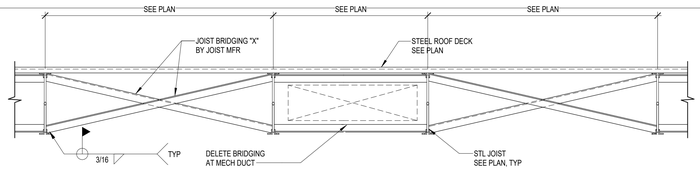
8. COORDINATE METAL DECK LENGTHS WITH THE FINAL JOIST AND BEAM LAYOUT. THE FINAL JOIST AND BEAM LAYOUT CAN BE DIFFERENT THAN THAT SHOWN IN THE CONTRACT DRAWINGS DEPENDING ON WHETHER THE JOIST BEARING SEATS ARE BUTTED OR LAPPED. THE JOIST LOCATIONS SHOWN IN THE CONTRACT DRAWINGS DO NOT ACCOUNT FOR THE SMALL DIFFERENCE IN JOIST LOCATION DUE TO THE VARIOUS JOIST BEARING CONDITIONS THAT COULD EXIST IN THE FIELD.

9. SUSPENDED CEILING, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.

10. ACOUSTICAL "DOVETAIL" METAL ROOF DECK SHALL BE MANUFACTURED BY EPIC METALS CORPORATION (EPICORE) OR CSI METAL DECK GROUP (VERSA DECK). REFER TO THE ROOF FRAMING PLAN FOR DECK TYPE AND LOCATION.

Connection schedule is intended to give a minimum diaphragm shear of 550plf (ASD), some give higher capacities.
Uplift applied in template cells = 30psf (ASD) (MWFRS).
Can be calculated here:

ENGINEER PICK ONE AND VERIFY

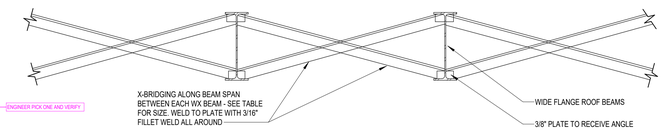


1 TYPICAL BRIDGING
NO SCALE

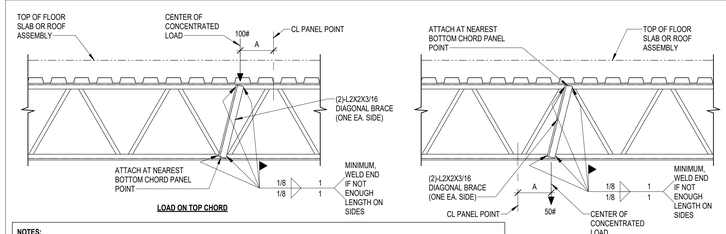
ETV
BRIDGING IS NOT DESIGNED FOR WIND-BORNE REGION. ENGINEER TO VERIFY

PURLIN SPAN LENGTH (FEET)	# OF ROWS OF BRIDGING	BRIDGING ANGLE SIZE
LESS THAN 10'-0"	- 0 -	L2x2x1/4"
10'-0" - 15'-0"	- 1 -	L2x2x1/4"
15'-0" - 20'-0"	- 1 -	L2x2x1/4"
20'-0" - 25'-0"	- 2 -	L2x2x1/4"
25'-0" - 30'-0"	- 2 -	L2x2x1/4"
30'-0" - 35'-0"	- 2 -	L2x2x1/4"
35'-0" - 40'-0"	- 3 -	L3x3x1/4"
40'-0" - 45'-0"	- 4 -	L3x3x1/4"
45'-0" - 50'-0"	- 4 -	L3x3x1/4"
50'-0" - 55'-0"	- 4 -	L3x3x1/4"
55'-0" - 60'-0"	- 4 -	L3x3x1/4"
60'-0" - 65'-0"	- 4 -	L3x3x1/4"

ROOF DECK NOT SHOWN FOR CLARITY



3 TYPICAL UPLIFT BRIDGING DETAIL
3/4" = 1'-0"

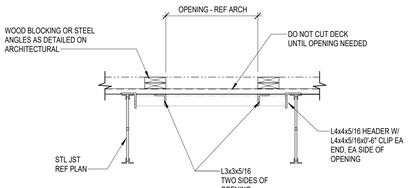


NOTES:
1. THIS DETAIL IS APPLICABLE TO ALL CONCENTRATED LOADS THAT ARE ATTACHED TO JOIST(S) WHETHER INDICATED ON THE STRUCTURAL DRAWINGS OR NOT. EXAMPLES OF THESE LOADS ARE:
   a. HANGING LOAD, PARTITION THAT EXCEEDS 150#
   b. HANGING PLUMBING, MECH STEEL PIPE 4" DIA OR LARGER
   c. HANGING BASKETBALL GOALS
   d. MECHANICAL UNITS
   e. HEAVY LIGHTS
2. ADDITIONAL ANGLES SHALL BE PLACED AT PANEL POINTS.
3. DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN THREE INCHES.

USE FOR LOADS IN EXCESS OF THOSE SHOWN FOR TOP & BOTTOM CHORDS

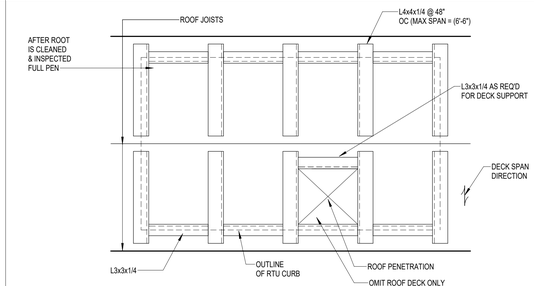
4 TYPICAL JOIST STIFFENING DETAIL AT CONCENTRATED LOADS
NO SCALE

THIS DETAIL APPLIES FOR OPENINGS GREATER THAN 1'-1" IN ANY DIRECTION. FOR OPENINGS GREATER THAN 6" AND LESS THAN 1'-1" IN ANY DIRECTION, USE A 16 GAGE DOUBLER PLATE WITH A PLAN DIMENSION 3 TIMES THE OPENING SIZE. SCREW PLATE TO DECK WITH #12 SCREWS @ 6" OC.

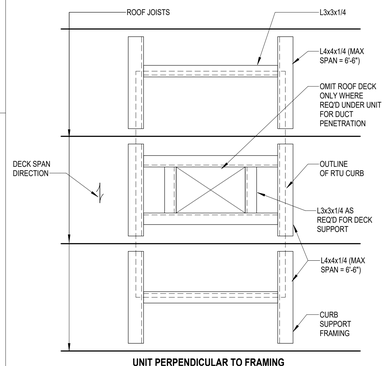


NOTE:
1. PROVIDE L3x3x1/4" FRAME FOR ROOF DRAIN SUPPORT (MIN) UNLESS NOTED OTHERWISE IN ARCHITECTURAL DRAWINGS

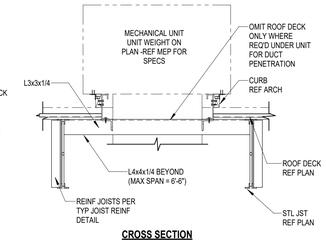
2 TYPICL ROOF OPENING DETAIL
NO SCALE



UNIT PARALLEL TO FRAMING



UNIT PERPENDICULAR TO FRAMING



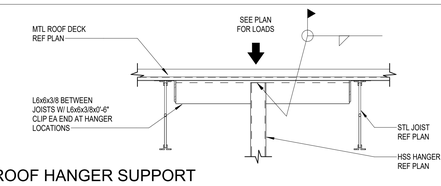
CROSS SECTION

NOTES:
1. VERIFY SIZE OF FRAME W/ MECH CONTRACTOR.
2. VERIFY UNIT LOCATION ON SITE PRIOR TO FRAME FABRICATION.
3. CONTRACTOR TO VERIFY UNIT WEIGHT WITH WEIGHT SHOWN ON PLAN.

ETV

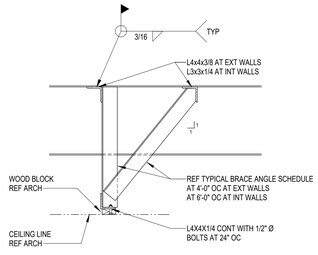
DESIGN CRITERIA:
INTERNATIONAL BUILDING CODE 2015
WIND VELOCITY = 150 MPH (3-SEC)
EXPOSURE = C
RISK CATEGORY III

5 TYPICAL SUPPORT AT MECHANICAL UNIT DETAIL
NO SCALE


SEE PLAN FOR LOADS
MTL ROOF DECK REF PLAN
L6x6x3/8 BETWEEN JOISTS W/ L6x6x3/8x0'-6" CLIP EA END AT HANGER LOCATIONS

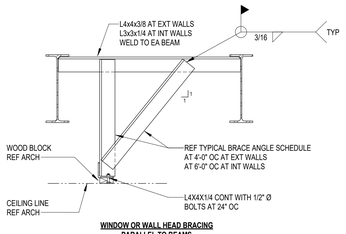
GENERAL STEEL NOTES AND TYP DETAILS
S-508
FOR BLUEBEAM LABELING/DOOR:

0"
1"



WINDOW OR WALL HEAD BRACING PERPENDICULAR TO BEAMS

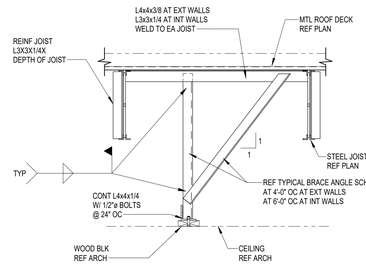
DECK NOT SHOWN FOR CLARITY



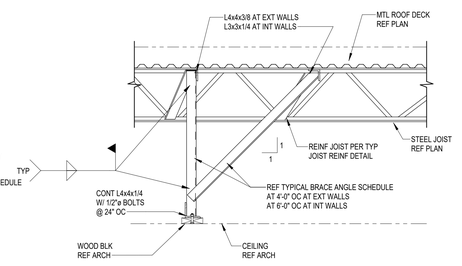
WINDOW OR WALL HEAD BRACING PARALLEL TO BEAMS

1 TYPICAL WINDOW OR WALL HEAD BRACING AT BEAMS
NO SCALE

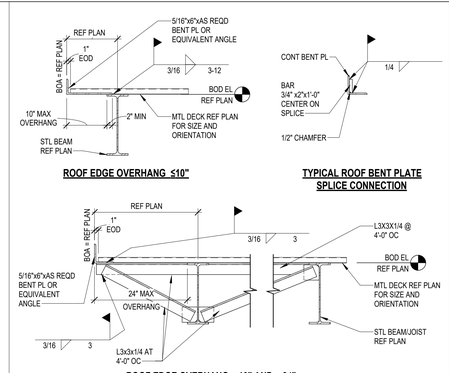
NOTE:
DESIGN JOISTS FOR ADDTIONAL DEAD LOAD = 1.2 KIPS



NOTE:
DESIGN JOISTS FOR ADDTIONAL DEAD LOAD = 0.25 KLF



2 TYPICAL WINDOW OR WALL HEAD BRACING AT JOISTS
NO SCALE

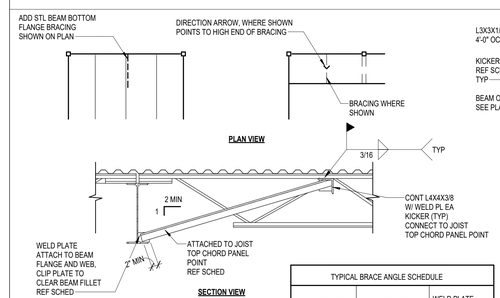


ROOF EDGE OVERHANG ≤10"

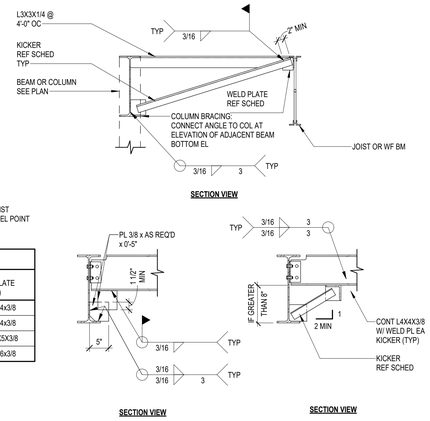
TYPICAL ROOF BENT PLATE SPLICE CONNECTION

ROOF EDGE OVERHANG > 10" AND < 24"

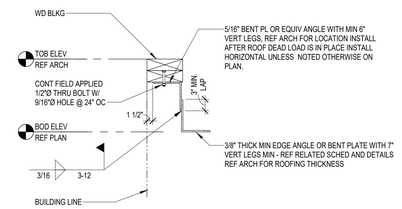
3 TYPICAL ROOF EDGE DETAIL
3/4" = 1'-0"



TYPICAL BRACE ANGLE SCHEDULE		
LENGTH (FT)	KICKER SIZE (IN)	WELD PLATE SIZE (IN)
UP TO 3'-0"	L2-1/2X2-1/2X3/16	PL 4x4x3/8
3'-0" TO 8'-0"	L3 x 3 x 1/4	PL 4x4x3/8
8'-0" TO 12'-0"	L4 x 4x 1/4	PL 5X5X3/8
12'-0" TO 16'-0"	L5 x 5x 5/16	PL 6x6x3/8

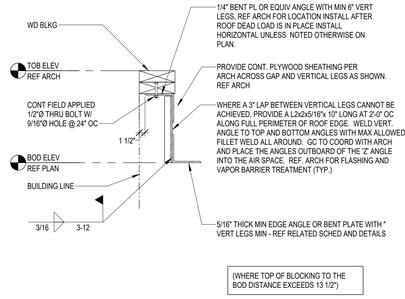


4 TYPICAL BEAM/JOIST BOTTOM FLANGE BRACE
NO SCALE

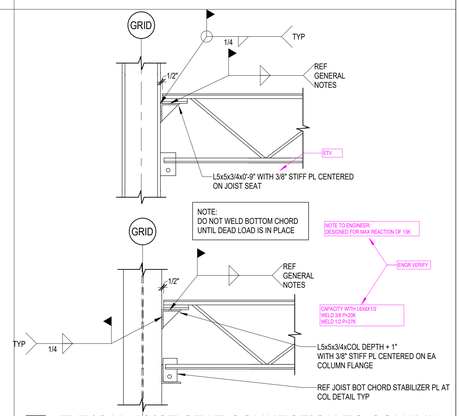


5 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"

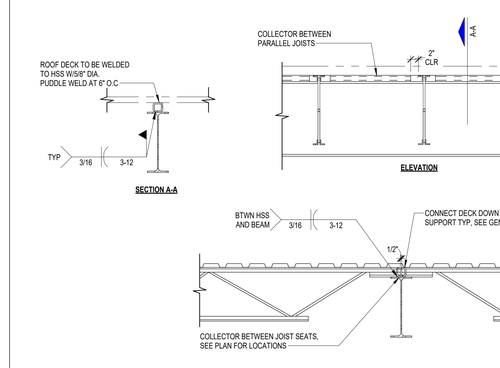
GC TO COORDINATE THIS DETAIL WITH ARCHITECT TO ENSURE ALL WATERPROOFING REQUIREMENTS ARE MET.



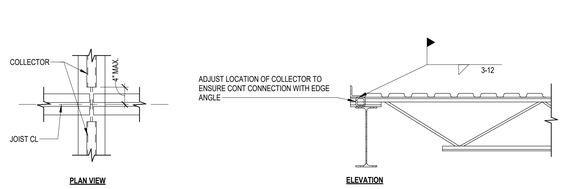
6 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"



7 TYPICAL JOIST SEAT CONNECTION TO COLUMN
3/4" = 1'-0"



8 TYPICAL DIAPHRAGM SHEAR COLLECTOR AT STEEL BEAM
NO SCALE

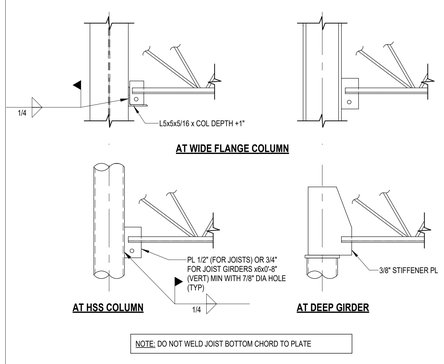


NOTES:

1. PROVIDE HSS BETWEEN JOIST SEATS AT WIND BRACING BEAMS, MOMENT FRAME BEAMS AND COLLECTOR BEAMS WITH "H" FORCE SPECIFIED AT END OF THE BEAM PLAN.
2. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
3. IF JOIST SEAT DEPTHS ARE DIFFERENT AT THE BEAM, USE DEEPER JOIST SEAT FOR BOTH JOISTS

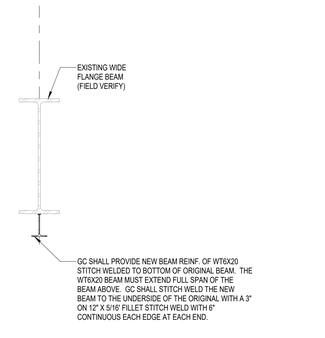
JOIST SEAT DEPTH	COLLECTOR SIZE
2 1/2	HSS 2 1/2 x 2 1/2 x 1/4
3	HSS 3 x 3 x 1/4
3 1/2	HSS 3 1/2 x 2 1/2 x 1/4
4	HSS 4 x 4 x 1/4
5	HSS 5X3X1/4
6	C 6 x 8.2
8	C 8 x 11.5

8 TYPICAL DIAPHRAGM SHEAR COLLECTOR AT STEEL BEAM
NO SCALE



NOTE: DO NOT WELD JOIST BOTTOM CHORD TO PLATE

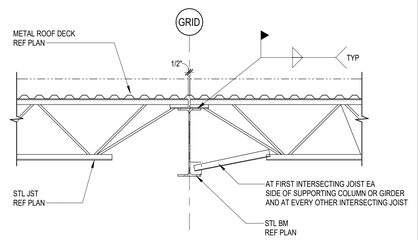
9 TYPICAL JOIST/JOIST GIRDER BOTTOM CHORD STABILIZER PLATE AT COLUMN
3/4" = 1'-0"



10 EXISTING BEAM REINF
3/4" = 1'-0"

NOTES:

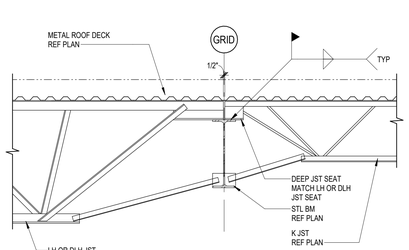
1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.



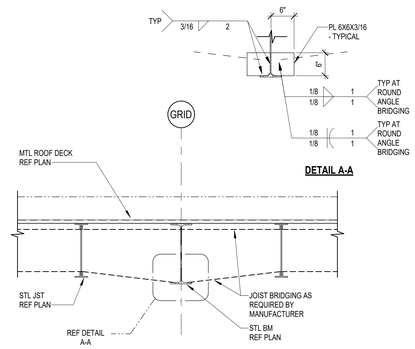
11 TYPICAL INTERIOR DETAIL AT K JOIST BEARING
NO SCALE

NOTES:

1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.



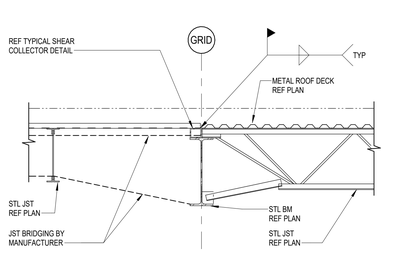
12 TYPICAL INTERIOR DETAIL AT LH AND DLH JOIST BEARING
NO SCALE



13 TYPICAL JOIST BRIDGING CONNECTION TO INTERIOR STEEL BEAM
NO SCALE

NOTES:

1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.

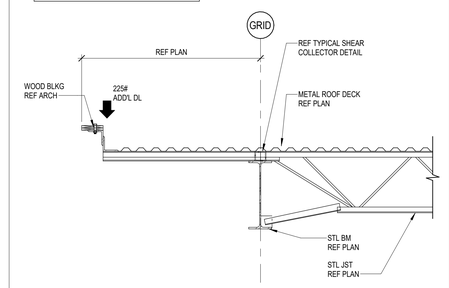


14 TYPICAL CHANGE IN DECK DIRECTION AT STEEL BEAM
NO SCALE

JOIST MFR DESIGN EXTENSION
FOR THE FOLLOWING LOADS
UNLESS EXTENSION SIZE NOTED ON PLAN:

DEAD & LIVE LOAD: REFER TO STEEL JOIST
FRAMING GENERAL NOTES

ETV



15 TYPICAL ROOF JOIST EXTENTION
NO SCALE

Plot Stamp:
12/5/2025 11:52:44 AM

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1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBAE Firm No. 23612

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

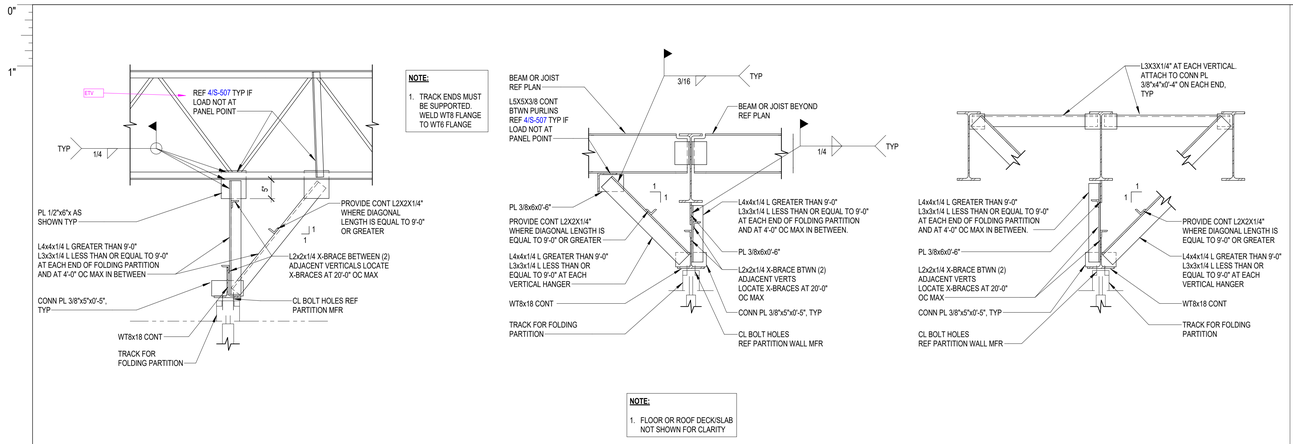
No.	Description	Date

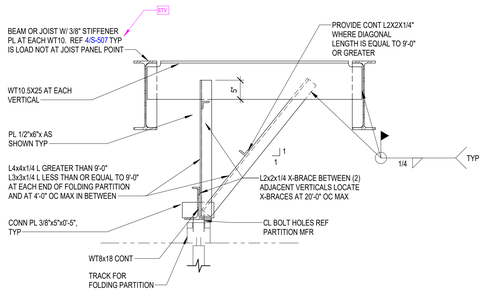
CHECKED BY: SI
DRAWN BY: CML

GENERAL STEEL NOTES AND TYP DETAILS

S-508

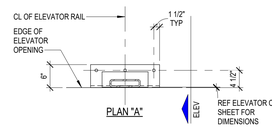
GENERAL STEEL NOTES AND TYP DETAILS
S-509
FOR BLUEBEAM LABELING/DOOR:





1 FOLDING PARTITION SUPPORT
3/4" = 1'-0"

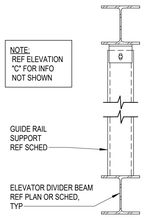
ELEVATOR BEAM / GUIDE RAIL SUPPORT SCHEDULE			
ELEVATORS	FLOORS	DIVIDER BEAM	GUIDE RAIL SUPPORT
TYP	ALL LEVELS	HSS8x4x1/4	HSS10x4x1/2



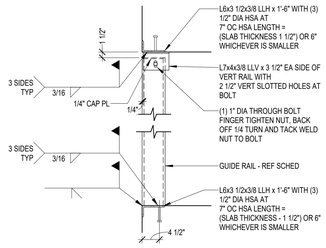
TYPICAL ELEVATOR GUIDE RAIL CONNECTION TO CONCRETE

NOTE TO CONTRACTOR:
CONTRACTOR TO COORDINATE WITH ELEVATOR CUTSHEETS

NOTE:
REF ELEVATION "C" FOR INFO NOT SHOWN

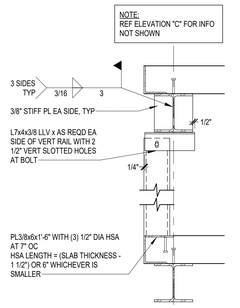


ON DIVIDER BEAM ELEVATION "B"



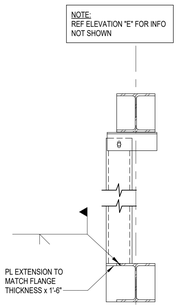
AT CONCRETE FRAMING EDGE ELEVATION "C"

NOTE:
REF ELEVATION "C" FOR INFO NOT SHOWN



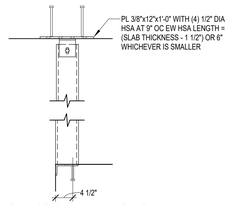
AT STEEL EDGE BEAM WITH SLAB ELEVATION "E"

NOTE:
REF ELEVATION "E" FOR INFO NOT SHOWN



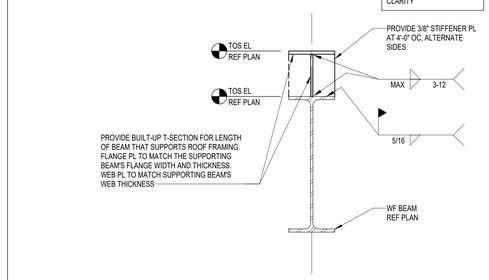
AT STEEL EDGE BEAM WITHOUT SLAB ELEVATION "F"

NOTE:
REF ELEVATION "C" FOR INFO NOT SHOWN

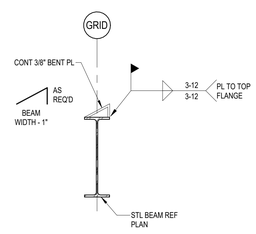


NOT AT CONCRETE FRAMING EDGE ELEVATION "D"

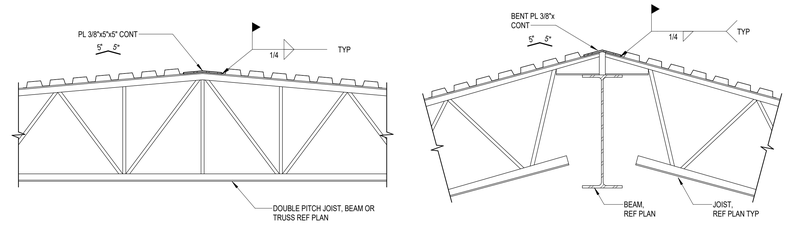
2 TYPICAL ELEVATOR GUIDERAIL SUPPORT DETAILS
3/4" = 1'-0"



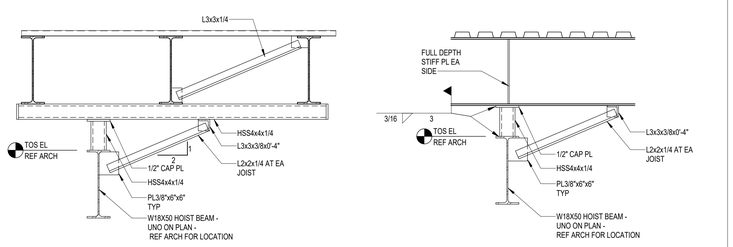
3 BUILT-UP WF BEAM
1 1/2" = 1'-0"



4 SLOPED DECK SUPPORT
3/4" = 1'-0"

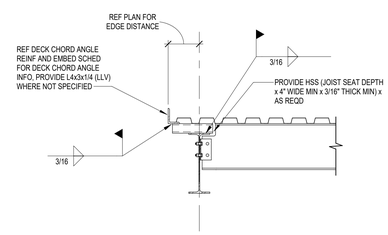


5 TYPICAL BENT PLATE AT RIDGE
3/4" = 1'-0"

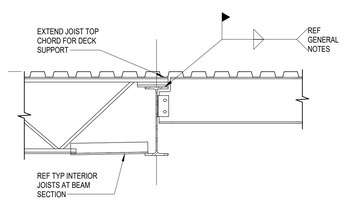


6 TYPICAL HOIST BEAM SUPPORT
3/4" = 1'-0"

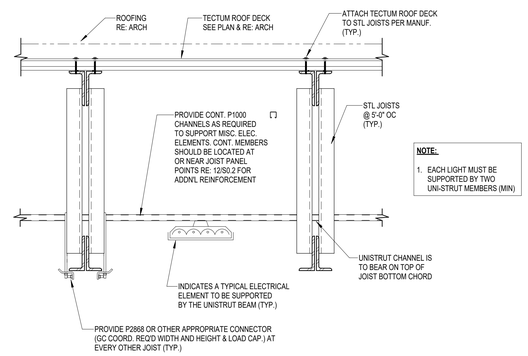
7 TYPICAL DECK SPACER AT STEEL BEAM
3/4" = 1'-0"



8 TYPICAL JOIST/BEAM AT BEAM
3/4" = 1'-0"



EXTENDED JOIST TOP CHORD FOR DECK SUPPORT



9 UNISTRUT DETAIL FOR ELECTRICAL SUPPORT
3/4" = 1'-0"

Plot Stamp:
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ISSUE FOR PROPOSAL

Kubala ENGINEERS
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TX: REG. NO. F-23612

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

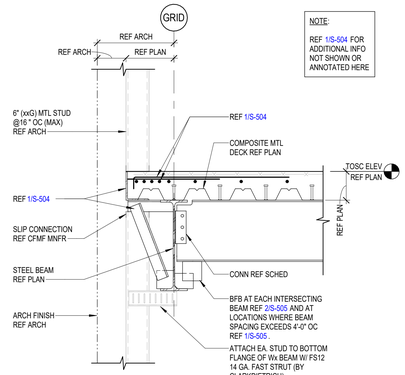
CHECKED BY: SI
DRAWN BY: CML

GENERAL STEEL NOTES AND TYP DETAILS

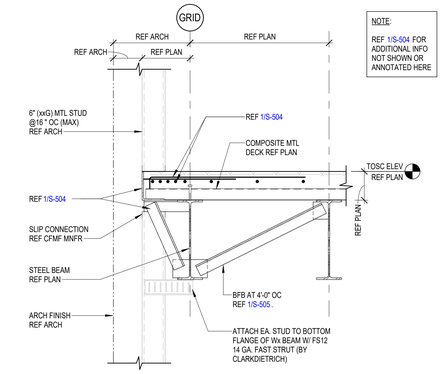
S-509

COMPOSITE FRAMING DETAILS
S-510
FOR BLUEBEAM LABELING/DOOR:

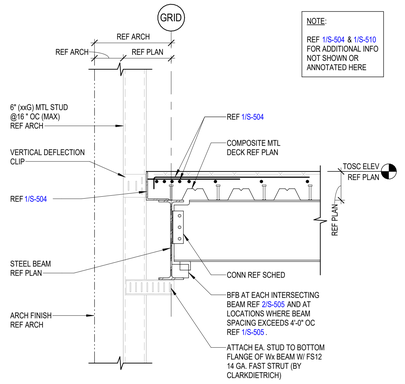
0"
1"



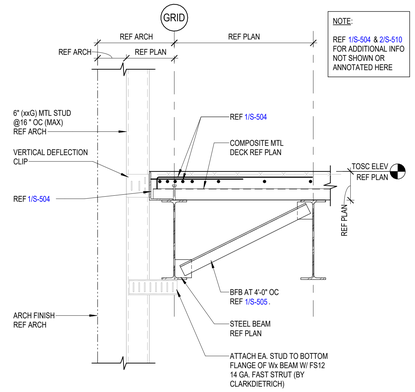
1 EXTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



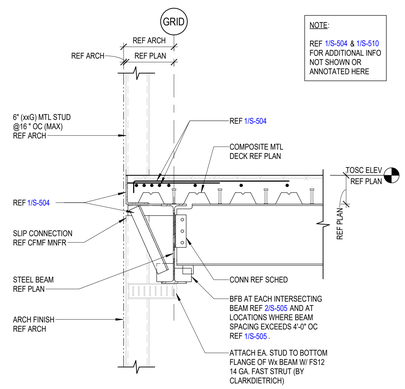
2 EXTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



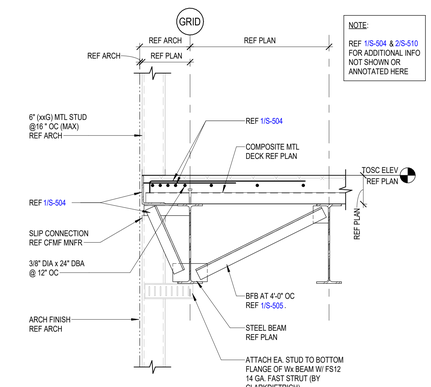
3 EXTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



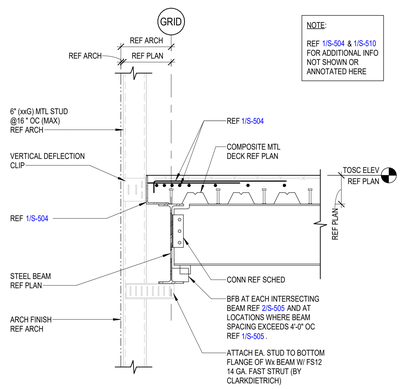
4 EXTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



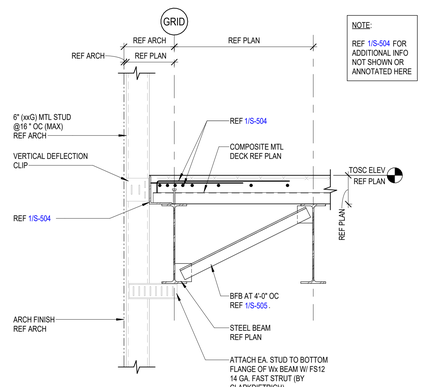
5 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



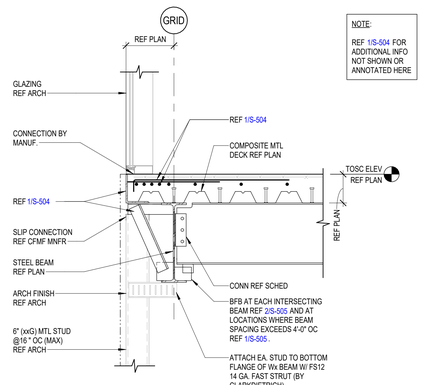
6 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



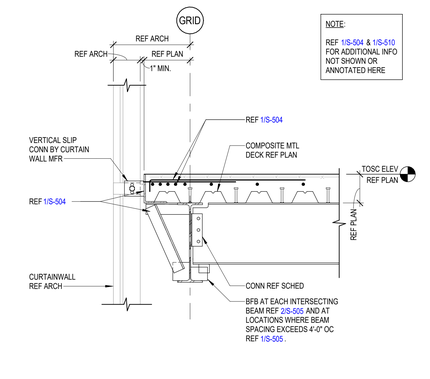
7 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



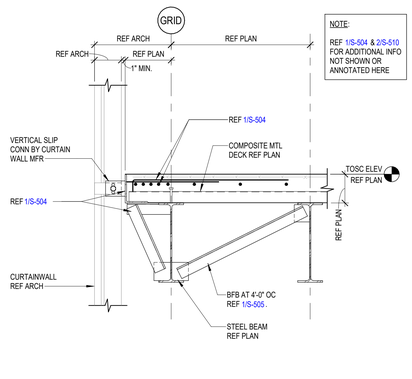
8 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



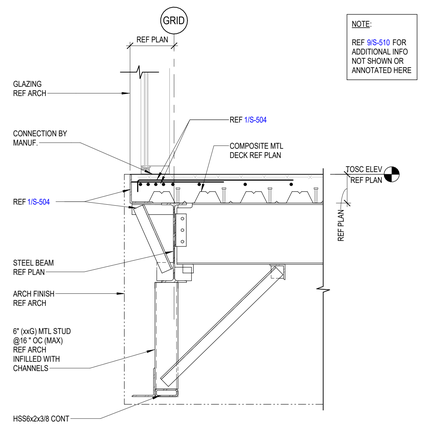
9 BEAM AT GLAZING AND STUD WALL
3/4" = 1'-0"



10 FLOOR EDGE DETAIL AT CURTAIN WALL
3/4" = 1'-0"



11 FLOOR EDGE DETAIL AT CURTAIN WALL
3/4" = 1'-0"



12 BEAM AT GLAZING AND STUD WALL
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:52:47 AM

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBAE Firm #20074
TX: 432-561-7 (2021)

Galena Park ISD
EXCELLENCE IN ALL THAT WE DO

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

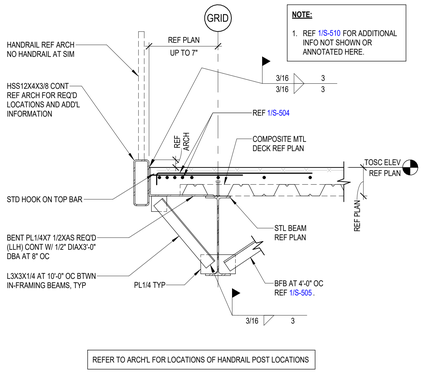
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

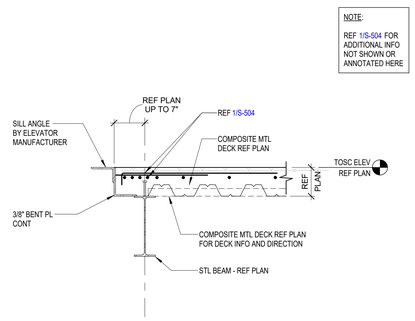
S-510

0"
1"

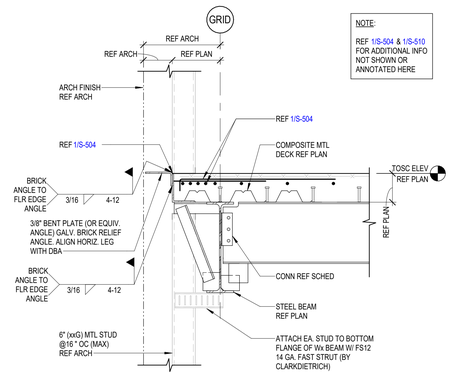
COMPOSITE FRAMING DETAILS
S-511
FOR BLUEBEAM LABELING/DOOR:



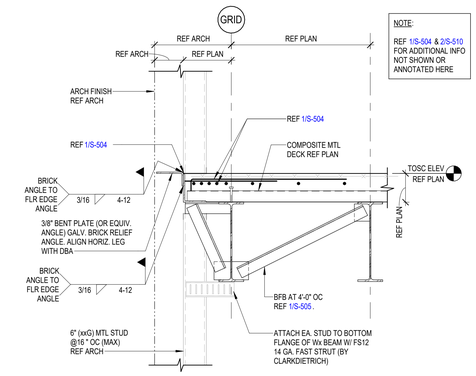
1 TYPICAL SLAB EDGE DETAIL AT GUARDRAILS
3/4" = 1'-0"



2 TYPICAL SLAB EDGE AT ELEVATOR SILL
3/4" = 1'-0"



3 EXTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



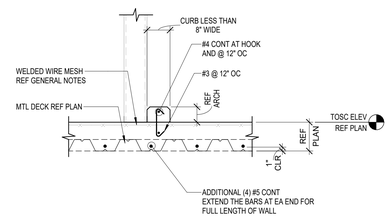
4 EXTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"

5 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"

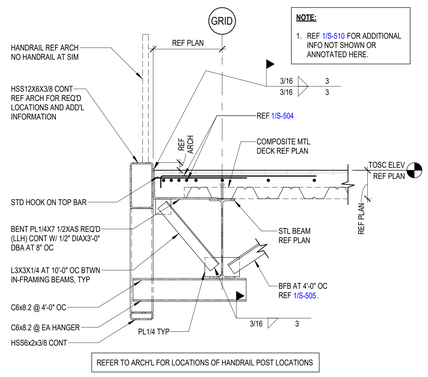
6 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"

7 INTERIOR FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"

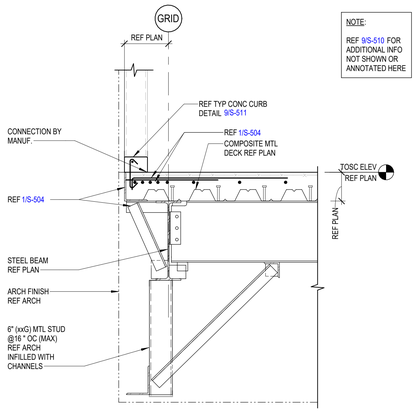
8 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



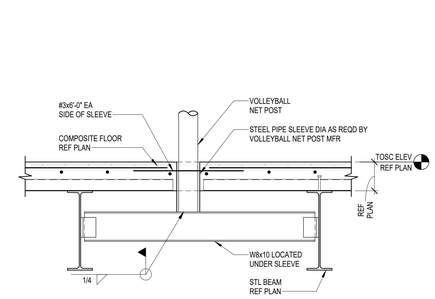
9 TYPICAL CURB AT COMPOSITE FLOOR
3/4" = 1'-0"



10 TYPICAL SLAB EDGE DETAIL AT GUARDRAILS
3/4" = 1'-0"



11 INTERIOR FLOOR EDGE DETAIL AT CURB
3/4" = 1'-0"



12 VOLLEYBALL POLE SLEEVE AT COMPOSITE FLOOR
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:52:49 AM

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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HOUSTON, TX
713-965-0008

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBPLS Firm #
TX: HCEI.1647.12912



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

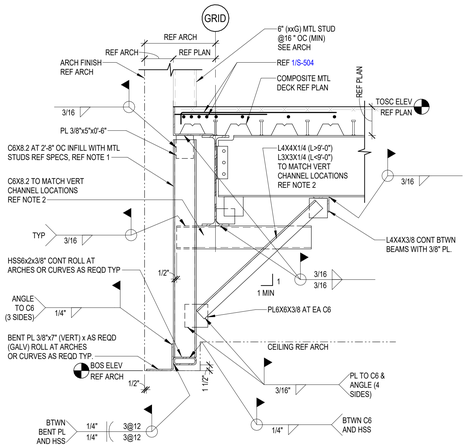
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

S-511

COMPOSITE FRAMING DETAILS
S-512
FOR BLUEBEAM LABELINGDOOR:

0"
1"



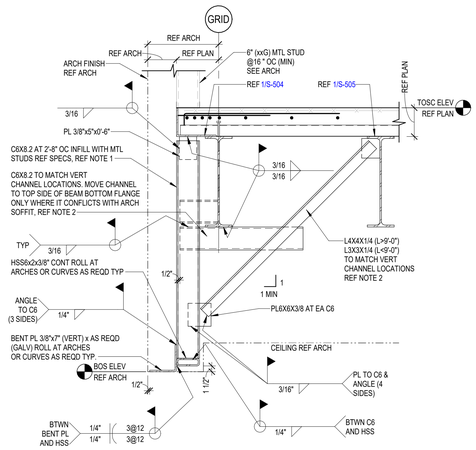
NOTES:

1. LOCATE FIRST VERT CHANNEL AT 6" MAX. FROM EACH END OF OPENING AN EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. AT JOISTS, PROVIDE JOIST CHORD STRENGTHENING BRACING WHERE BRACING IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
REFER TO LOOSE LINTEL SCHEDULE.

1 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"



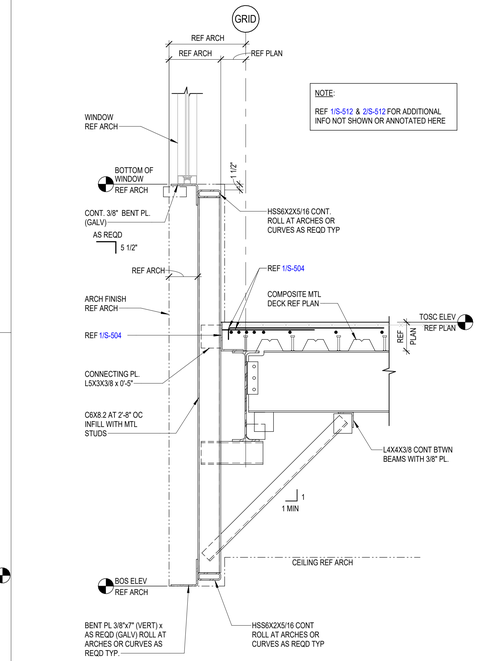
NOTES:

1. LOCATE FIRST VERT CHANNEL AT 6" MAX. FROM EACH END OF OPENING AN EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. AT JOISTS, PROVIDE JOIST CHORD STRENGTHENING BRACING WHERE BRACING IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
REFER TO LOOSE LINTEL SCHEDULE.

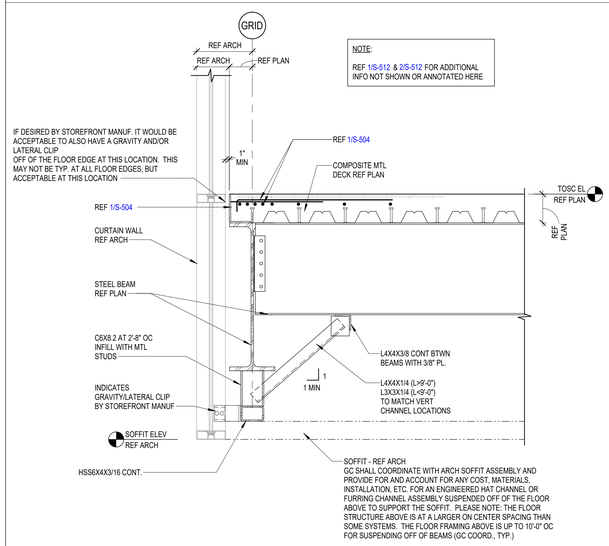
2 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"



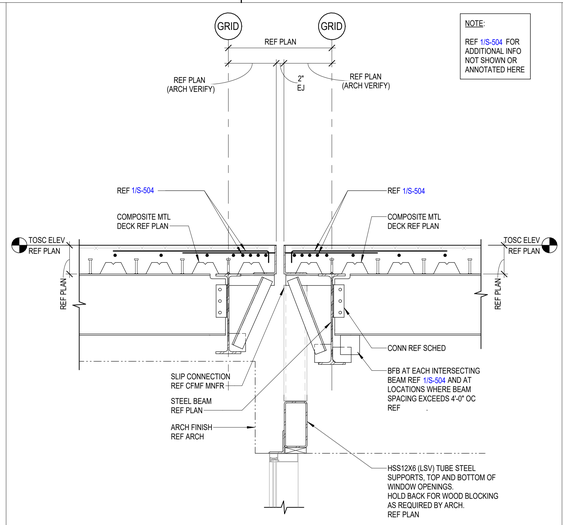
NOTE:

REF 1/S-512 & 2/S-512 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE

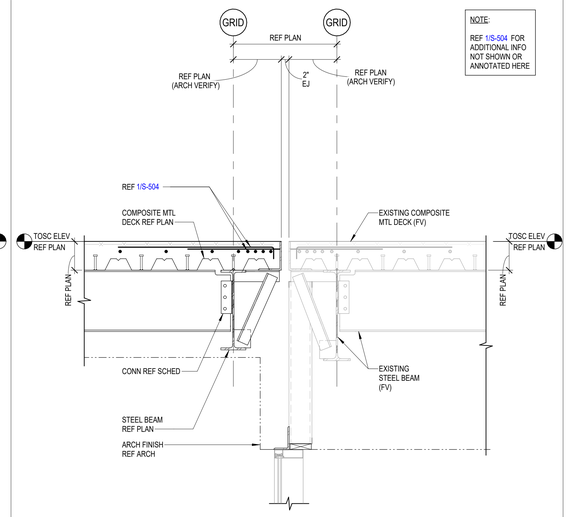
6 HANGING BRICK DETAIL
3/4" = 1'-0"



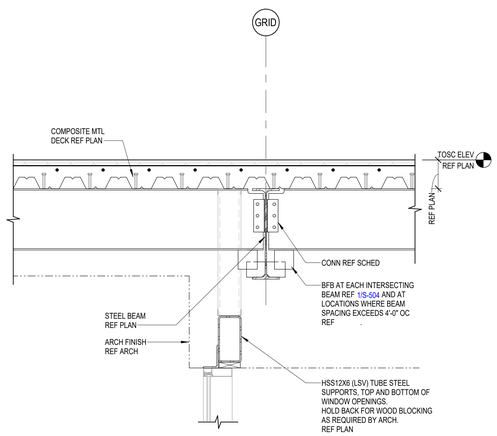
3 TYPICAL CURTAINWALL SUPPORT AT SECOND FLOOR
3/4" = 1'-0"



4 EXTERIOR FLOOR EDGE DETAIL AT EJ
3/4" = 1'-0"



5 EXTERIOR FLOOR EDGE DETAIL AT EJ AT EXISTING
3/4" = 1'-0"



7 FRAMING SECTION
3/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
Firm #20070174
TX REG: No.F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

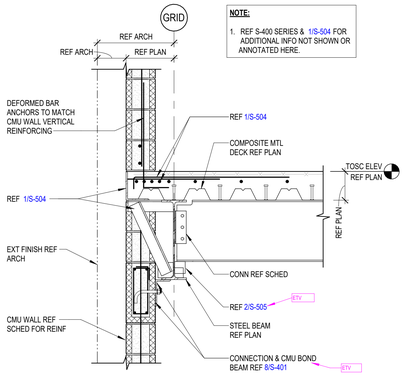
COMPOSITE FRAMING DETAILS

S-512

Plot Stamp:
12/5/2025 11:52:51 AM

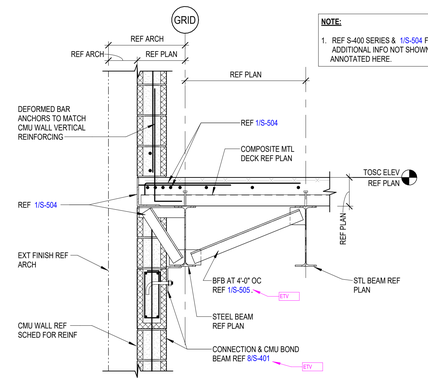
COMPOSITE FRAMING DETAILS
S-513
FOR BLUEBEAM LABEL:INDOOR;

0"
1"



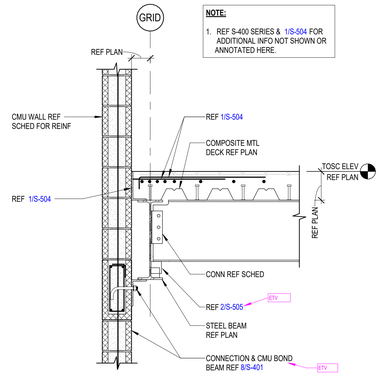
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

1 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



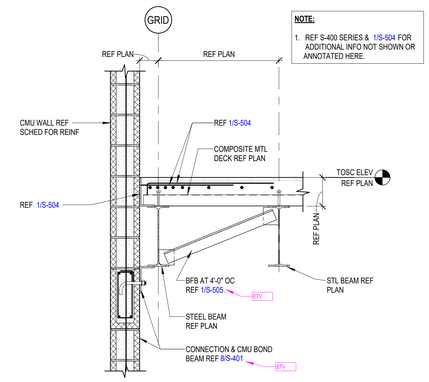
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

2 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



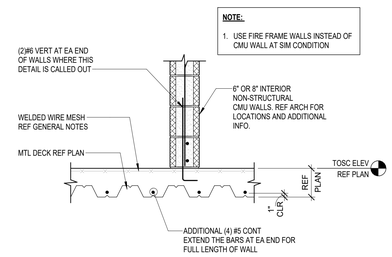
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

3 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"

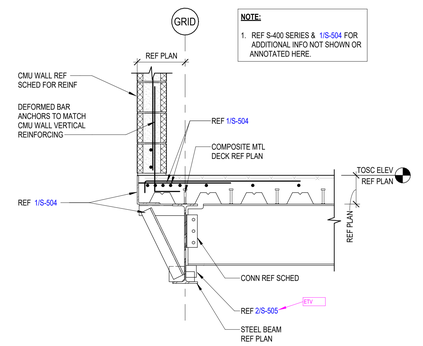


NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

4 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"

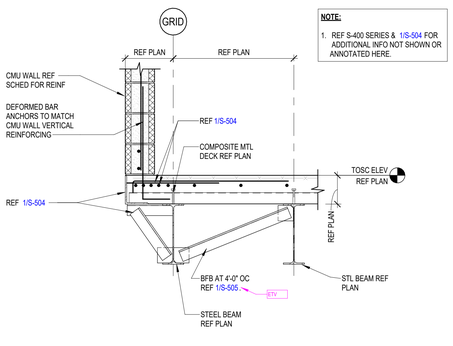


5 TYPICAL ADDITIONAL REINF UNDER INT. WALLS PARALLEL TO DECK SPAN
3/4" = 1'-0"



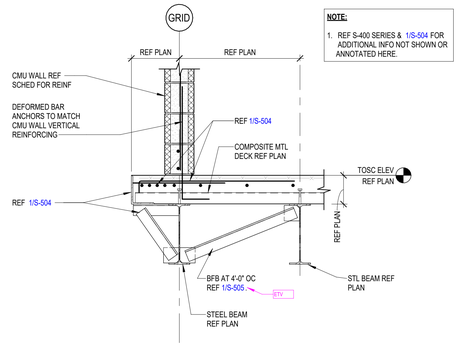
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

6 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



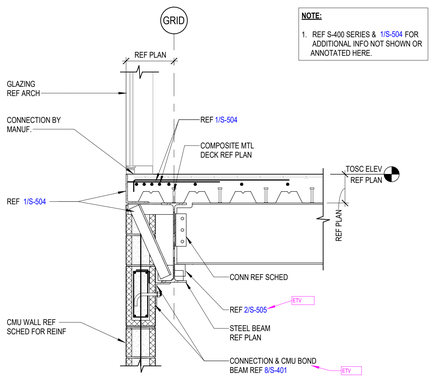
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

7 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



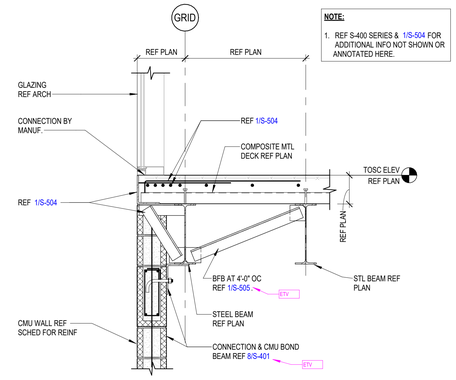
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

8 CMU BEARING ON STEEL BEAM DETAIL
3/4" = 1'-0"



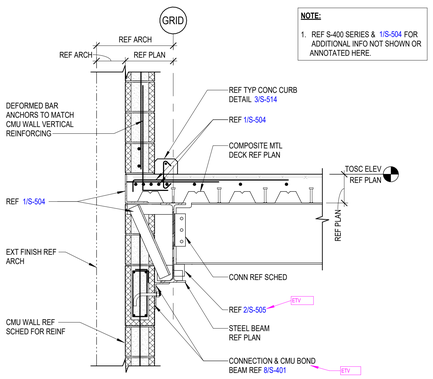
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

9 BEAM AT GLAZING AND CMU WALL
3/4" = 1'-0"



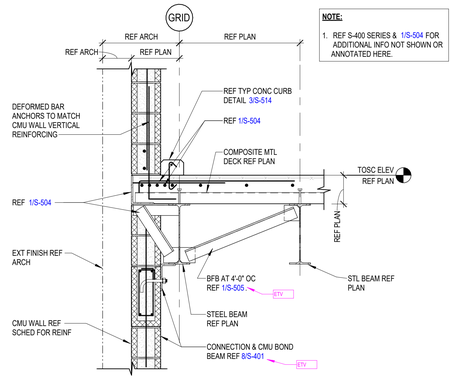
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

10 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

11 BEAM AT EXTERIOR CMU WALL W/CONC CURB
3/4" = 1'-0"



NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

12 BEAM AT EXTERIOR CMU WALL W/CONC CURB
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:52:53 AM

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ISSUE FOR PROPOSAL

Kubala ENGINEERS
PH: 713-503-9974
www.kubalaengineers.com
TX. REG. NO. F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

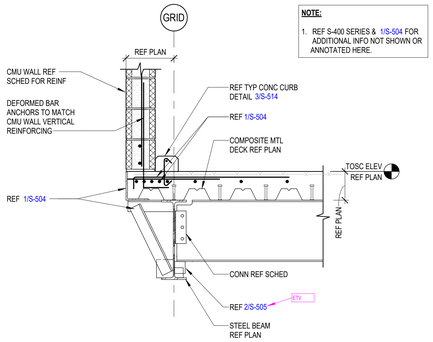
No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

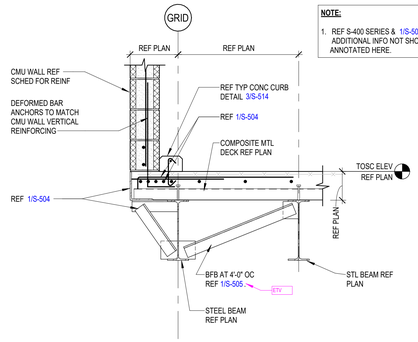
S-513

COMPOSITE FRAMING DETAILS
S-514
FOR BLUEBEAM LABELING/OCR:



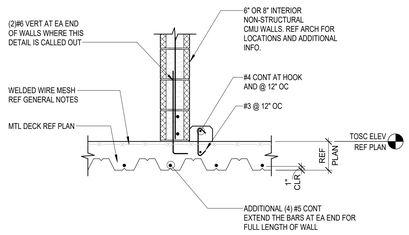
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

1 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



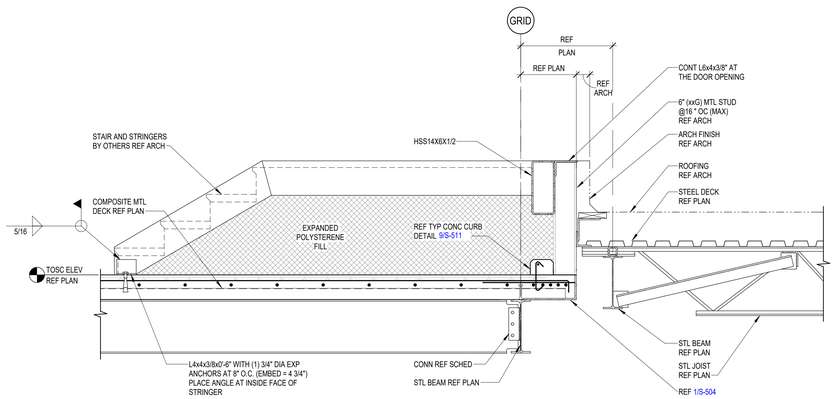
NOTE:
1. REF S-400 SERIES & 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

2 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



NOTE:
1. USE FIRE FRAME WALLS INSTEAD OF CMU WALL AT SIM CONDITION

3 TYPICAL CURB AT COMPOSITE FLOOR
3/4" = 1'-0"



5 STAIR ON GEOFOAM TO ROOF
3/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

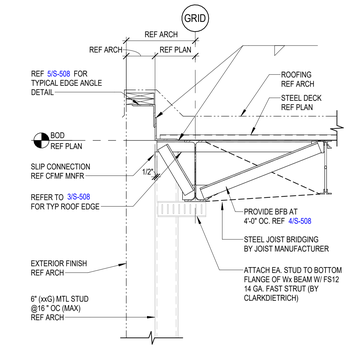
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

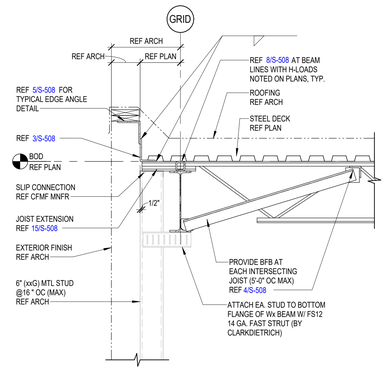
S-514

Plot Stamp:
12/5/2025 11:52:54 AM

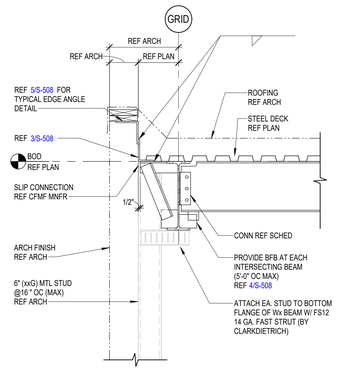
0"
1"



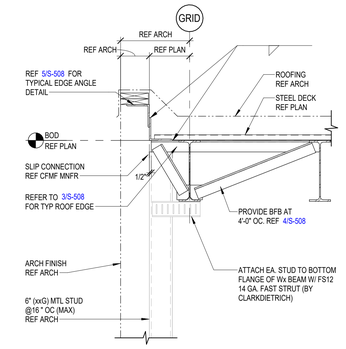
1 TYPICAL ROOF SECTION
3/4" = 1'-0"



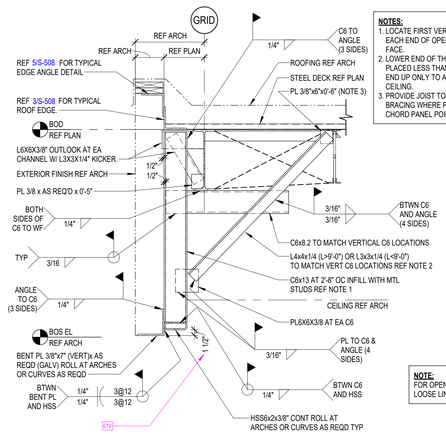
2 TYPICAL ROOF SECTION
3/4" = 1'-0"



3 TYPICAL ROOF SECTION
3/4" = 1'-0"

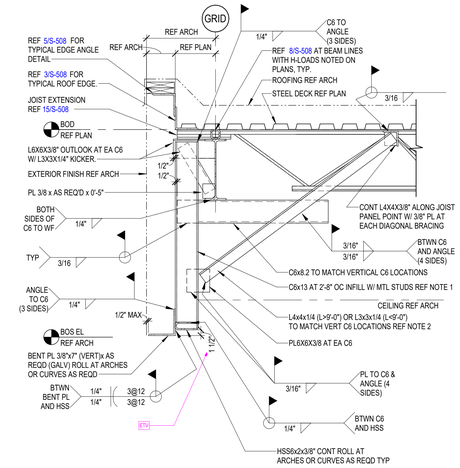


4 TYPICAL ROOF SECTION
3/4" = 1'-0"

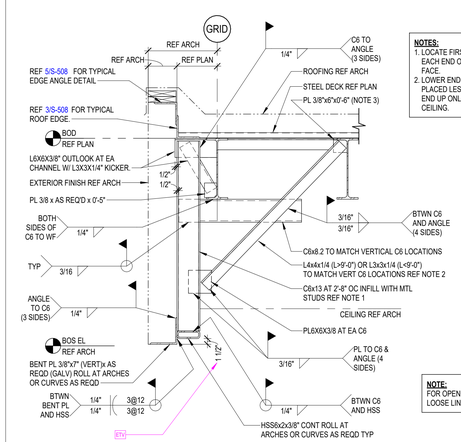


NOTES:
1. LOCATE FIRST VERT CHANNEL AT 6" MAX FROM EACH END OF OPENING AND EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. PROVIDE JOIST TOP CHORD STRENGTHENING BRACING WHERE PLATE IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTE:
FOR OPENINGS LESS THAN 8'-0" REF LOOSE LINTEL SCHED

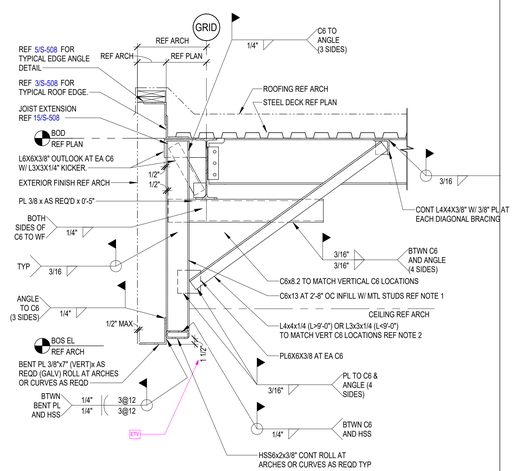


5 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"

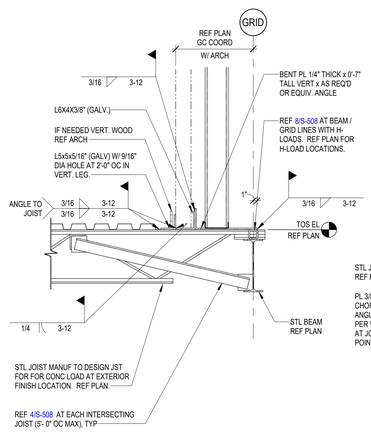


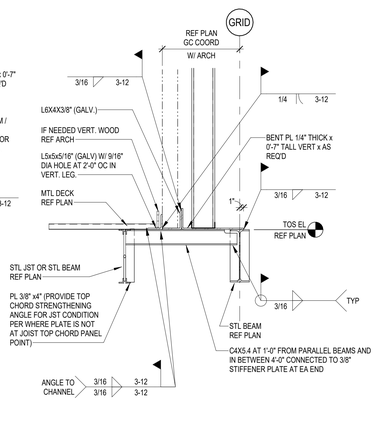
NOTES:
1. LOCATE FIRST VERT CHANNEL AT 6" MAX FROM EACH END OF OPENING AND EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.

NOTE:
FOR OPENINGS LESS THAN 8'-0" REF LOOSE LINTEL SCHED



6 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"

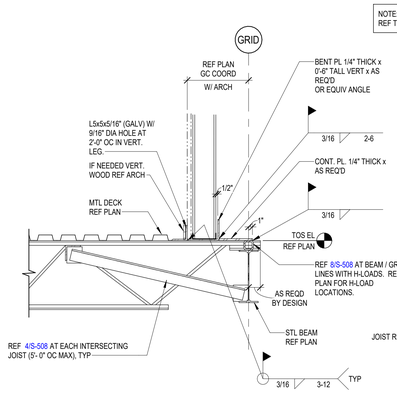


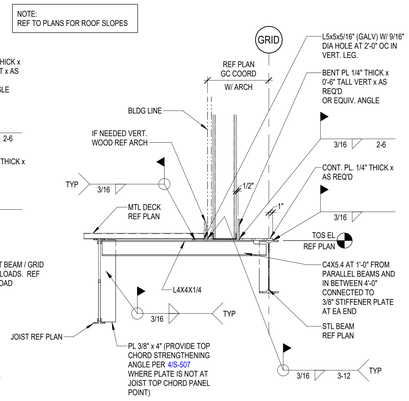


NOTE: JOIST ENGINEER TO DESIGN JOISTS FOR ADDITIONAL DEAD LOAD ASSOCIATED WITH VENEER AND WALL SYSTEM FOR TOTAL HEIGHT OF WALL SUPPORTED ABOVE. ASSUME THE FOLLOWING DEAD LOADS (TYP): MASONRY DEAD LOAD = 40 PSF CFMF WALL SYSTEM = 15 PSF NON-MASONRY VENEER = 5 PSF

7 TYP. EXTERIOR FINISH SUPPORT AT HIGH/LOW ROOF TRANSITIONS
3/4" = 1'-0"

NOTE:
REF TO PLANS FOR ROOF SLOPES





NOTE: JOIST ENGINEER TO DESIGN JOISTS FOR ADDITIONAL DEAD LOAD ASSOCIATED WITH VENEER AND WALL SYSTEM FOR TOTAL HEIGHT OF WALL SUPPORTED ABOVE. ASSUME THE FOLLOWING DEAD LOADS (TYP): MASONRY DEAD LOAD = 40 PSF CFMF WALL SYSTEM = 15 PSF NON-MASONRY VENEER = 5 PSF

8 TYP. METAL PANEL FINISH SUPPORT AT HIGH/LOW ROOF TRANSITIONS
3/4" = 1'-0"

ROOF FRAMING DETAILS
S-520
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
12/5/2025 11:52:57 AM

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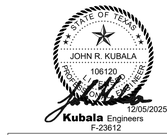
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

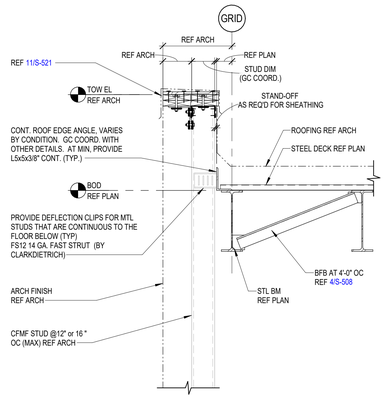
CHECKED BY: SI
DRAWN BY: CML

ROOF FRAMING DETAILS

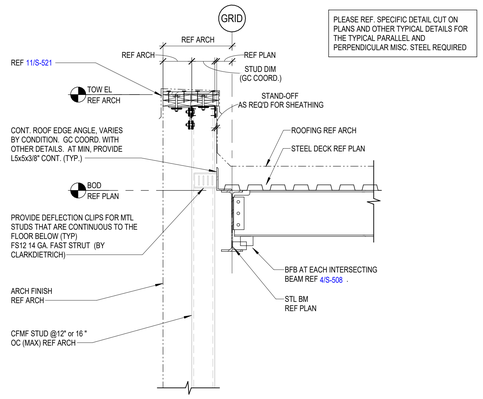
S-520

0"
1"

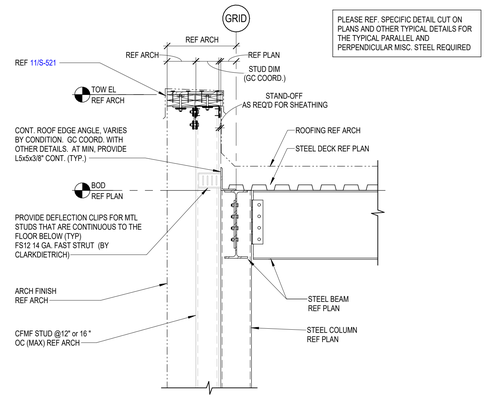
ROOF FRAMING DETAILS
S-521
FOR BLUEBEAM LABELINGDOOR:



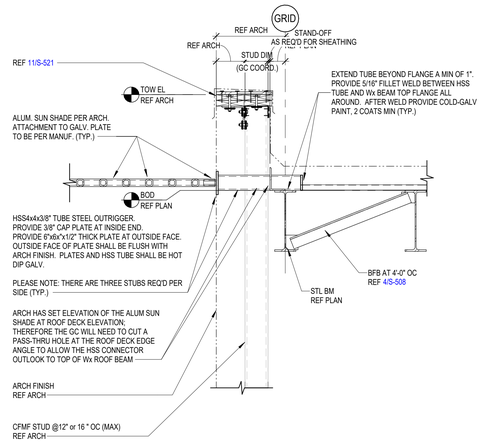
1 TYPICAL ROOF SECTION WITH PARAPET
3/4" = 1'-0"



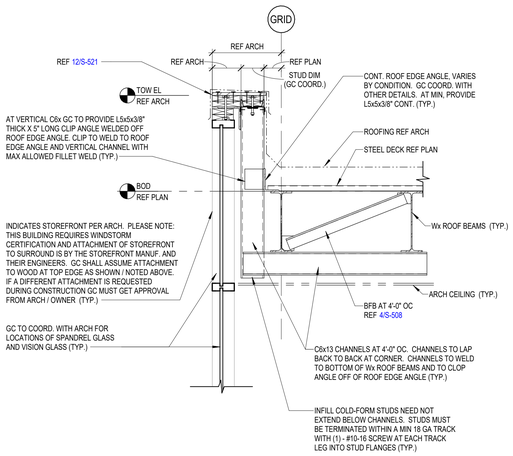
2 TYPICAL ROOF SECTION WITH PARAPET
3/4" = 1'-0"



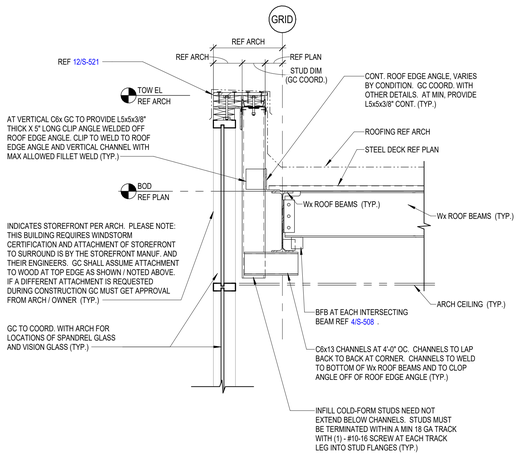
3 TYPICAL ROOF SECTION WITH PARAPET AT COLUMN
3/4" = 1'-0"



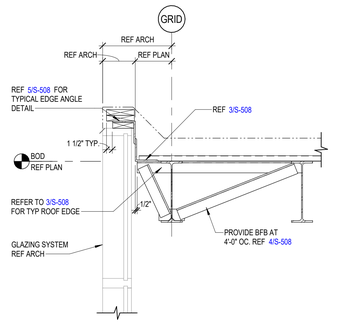
4 PARAPET ROOF EDGE DETAIL AT ALUMINUM SUN SHADE ATTACHMENT / OUTLOOK
3/4" = 1'-0"



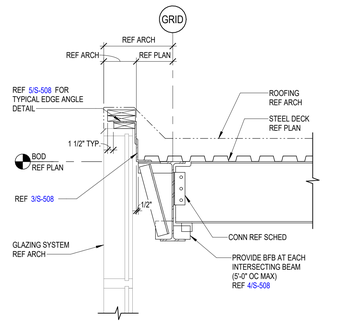
5 TYPICAL TOP OF PARAPET DETAIL WITH STOREFRONT AND/OR MISC. STEEL BACK-UP
3/4" = 1'-0"



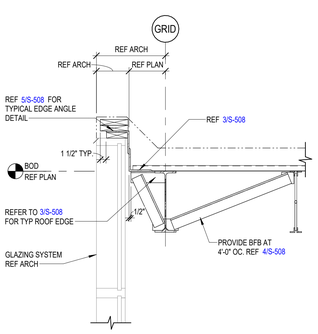
6 TYPICAL TOP OF PARAPET DETAIL WITH STOREFRONT AND/OR MISC. STEEL BACK-UP
3/4" = 1'-0"



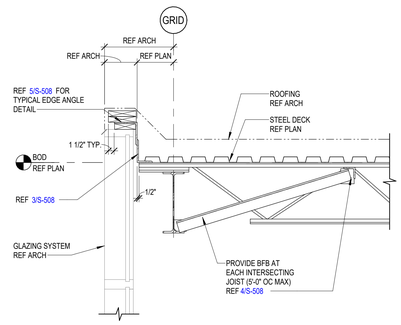
7 ROOF SECTION
3/4" = 1'-0"



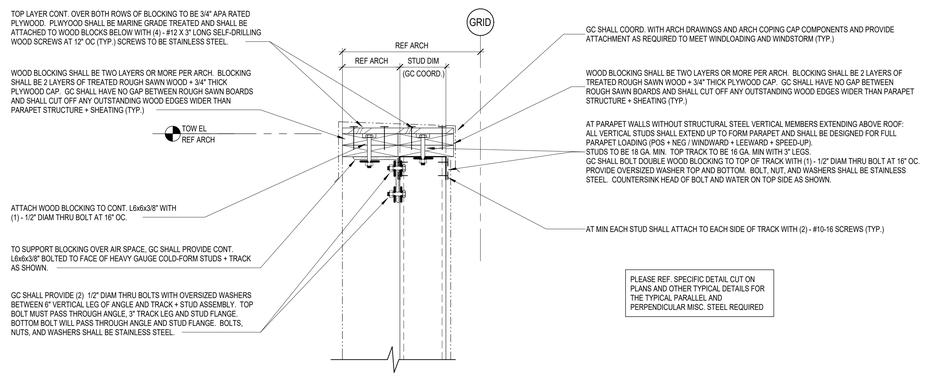
8 ROOF SECTION
3/4" = 1'-0"



9 ROOF SECTION
3/4" = 1'-0"



10 ROOF SECTION
3/4" = 1'-0"



11 TYPICAL TOP OF PARAPET DETAIL WITH METAL STUD-FRAMING
1 1/2" = 1'-0"

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Phone: 832-595-4774
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TX: 16C01 NO.1 12812

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

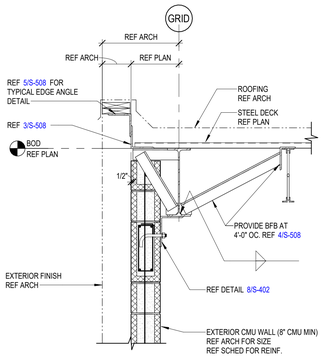
ROOF FRAMING DETAILS

S-521

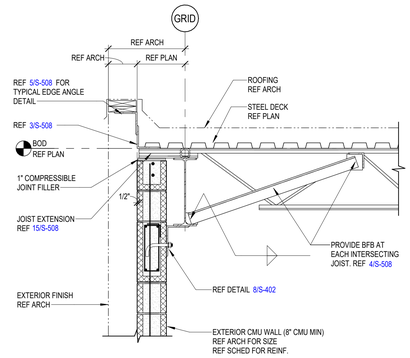
Plot Stamp:
12/5/2025 11:52:59 AM

ROOF FRAMING DETAILS
S-522
FOR BLUEBEAM LABELING/DOOR:

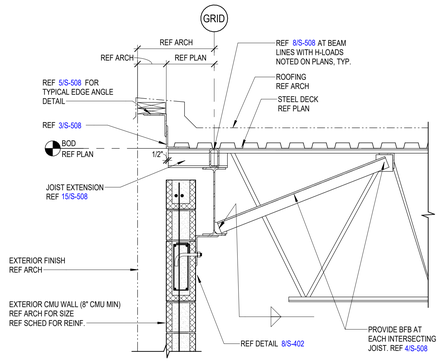
0"
1"



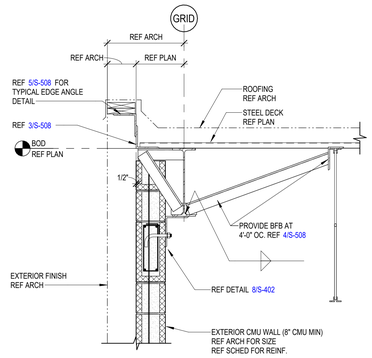
1 ROOF SECTION
3/4" = 1'-0"



2 ROOF SECTION
3/4" = 1'-0"



3 ROOF SECTION
3/4" = 1'-0"



4 ROOF SECTION
3/4" = 1'-0"

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713-865-0008
Kubala ENGINEERS
Phone: 832-967-0771
www.kubalaengineers.com
TX. REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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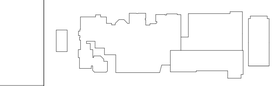
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN ≈ TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

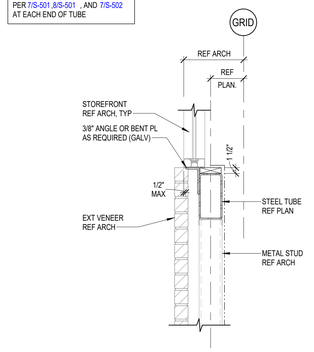
ROOF FRAMING DETAILS

S-522

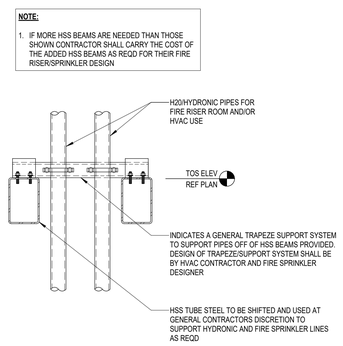
Plot Stamp:
12/5/2025 11:53:00 AM

ROOF FRAMING DETAILS
S-523
FOR BLUEBEAM LABELING/OCR:

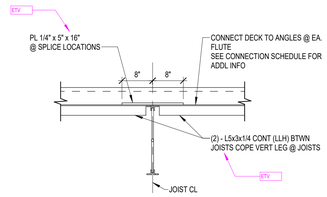
0"
1"



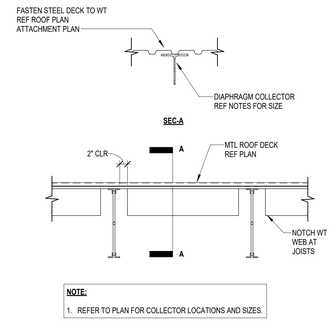
1 HSS HEADER DETAIL
3/4" = 1'-0"



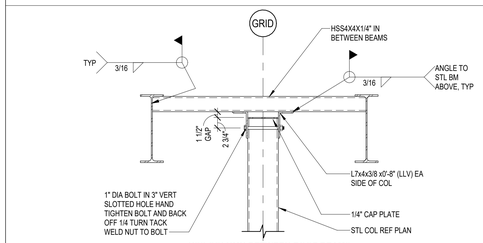
2 FIRE/SPRINKLER SUPPORT
3/4" = 1'-0"



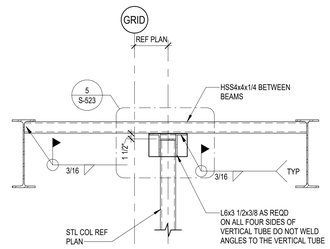
3 TYPICAL DETAIL
3/4" = 1'-0"



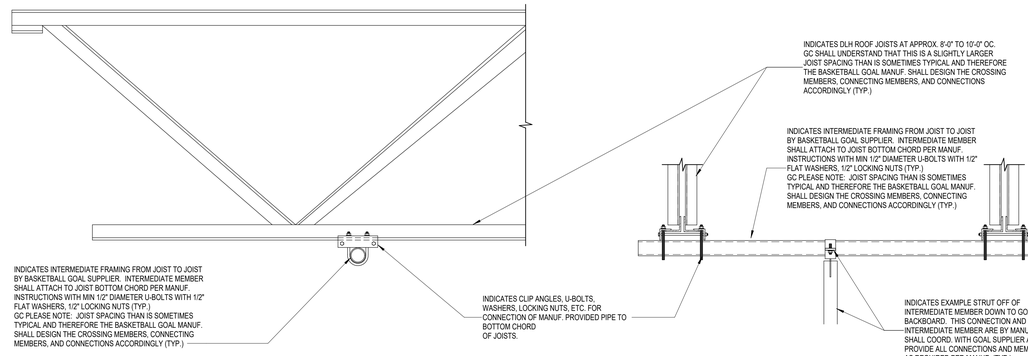
4 DIAPHRAGM COLLECTOR PERP TO JOISTS
3/4" = 1'-0"



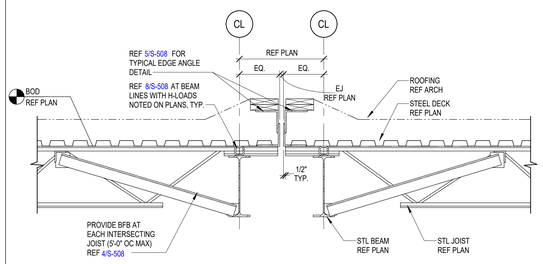
5 FRAMING SECTION
3/4" = 1'-0"



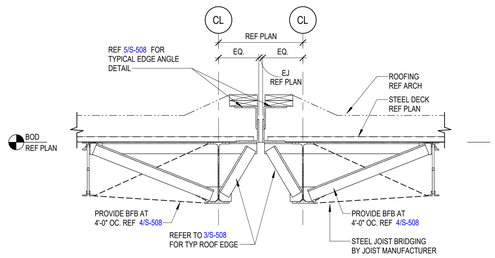
6 FRAMING SECTION
3/4" = 1'-0"



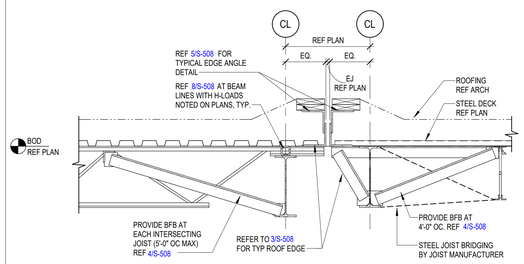
7 TYPICAL BASKETBALL GOAL DETAIL
3/4" = 1'-0"



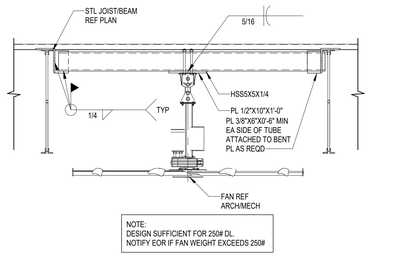
9 DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



10 DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



11 DETAIL AT EXPANSION JOINT
3/4" = 1'-0"



12 ROOF FRAMING AT LARGE CEILING FAN
3/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

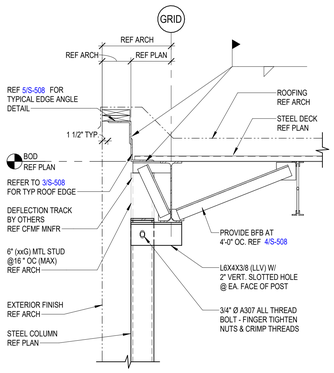
ROOF FRAMING DETAILS

S-523

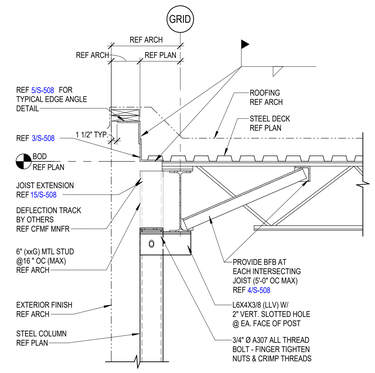
Plot Stamp:
12/5/2025 11:53:02 AM

ROOF FRAMING DETAILS
S-524
FOR BLUEBEAM LABELING/OCR:

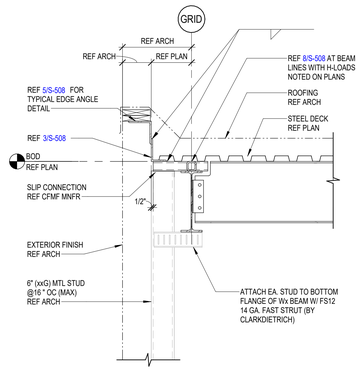
0"
1"



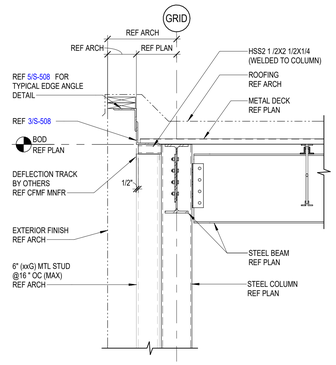
1 ROOF SECTION
3/4" = 1'-0"



2 ROOF SECTION
3/4" = 1'-0"



3 TYPICAL ROOF SECTION
3/4" = 1'-0"



4 TYPICAL ROOF SECTION AT COLUMN
3/4" = 1'-0"

5 TYPICAL ROOF SECTION AT COLUMN
3/4" = 1'-0"

6 ROOF SECTION
3/4" = 1'-0"

7 FRAMING SECTION
3/8" = 1'-0"

8 FLOOR TO ROOF FRAMING SECTION
3/4" = 1'-0"

9 ROOF FRAMING SECTION
3/4" = 1'-0"

10 ROOF FRAMING SECTION
3/4" = 1'-0"

11 SECTION AT EJ LOW ROOF
3/4" = 1'-0"

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713-965-0008
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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

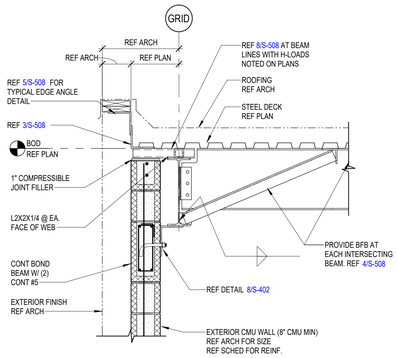
ROOF FRAMING DETAILS

S-524

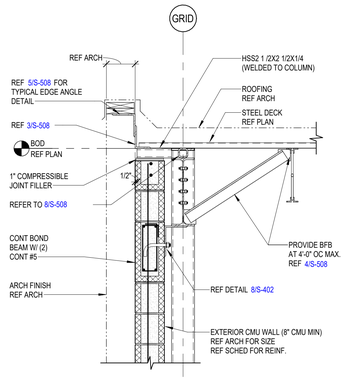
Plot Stamp:
12/5/2025 11:53:03 AM

ROOF FRAMING DETAILS
S-525
FOR BLUEBEAM LABELING/OCR:

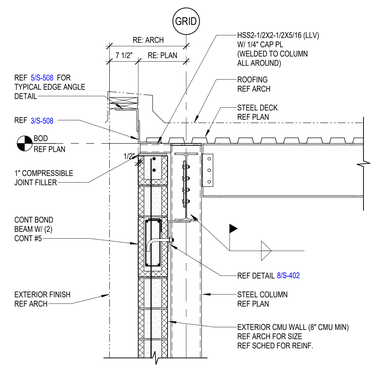
0"
1"



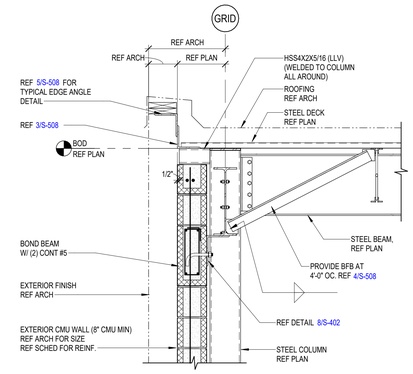
1 ROOF SECTION
3/4" = 1'-0"



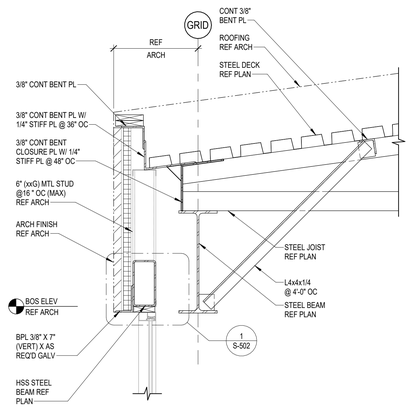
2 ROOF SECTION
3/4" = 1'-0"



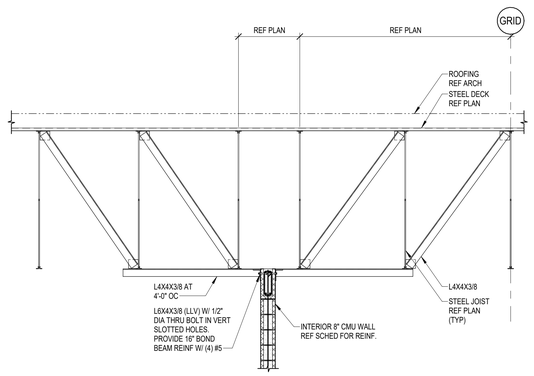
3 ROOF SECTION
3/4" = 1'-0"



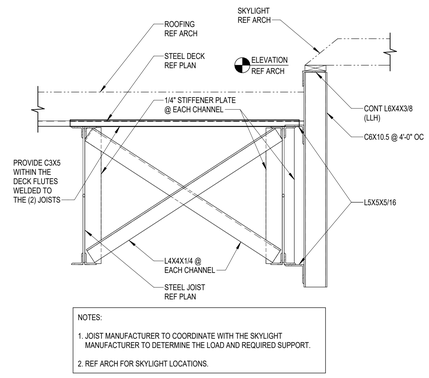
4 ROOF SECTION
3/4" = 1'-0"



5 CLASSROOF HIGH ROOF FRAMING SECTION
3/4" = 1'-0"

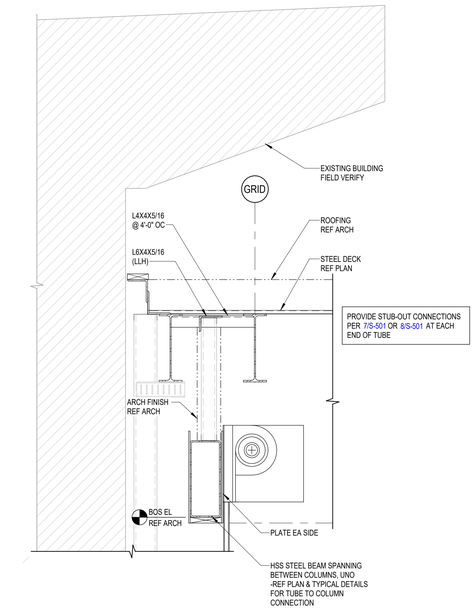


6 SUPPORT AT CMU DEMISING WALL
3/8" = 1'-0"

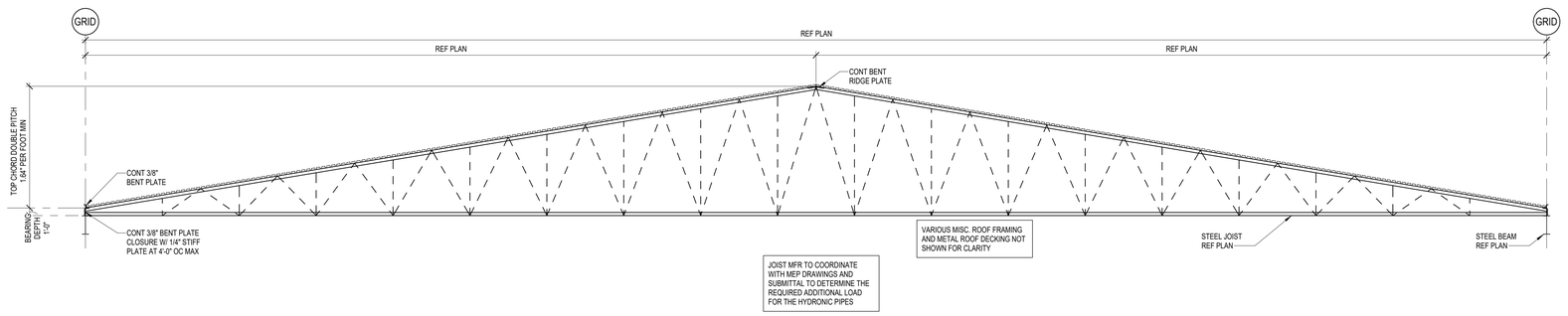


NOTES:
1. JOIST MANUFACTURER TO COORDINATE WITH THE SKYLIGHT MANUFACTURER TO DETERMINE THE LOAD AND REQUIRED SUPPORT.
2. REF ARCH FOR SKYLIGHT LOCATIONS.

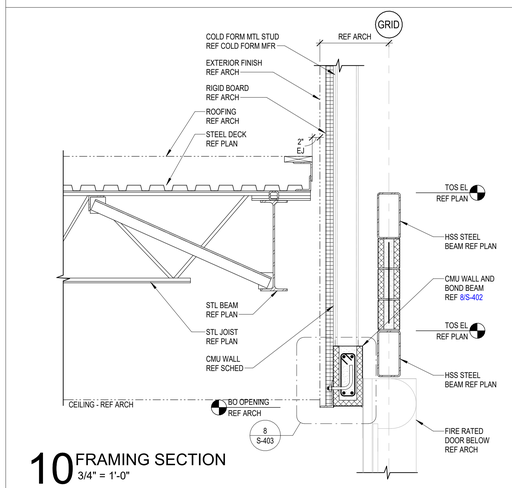
7 SKYLIGHT OPENING SUPPORT
3/4" = 1'-0"



8 SMOKE AND FIRE SCREEN SUPPORT
3/4" = 1'-0"



9 GYM ROOF JOIST ELEVATION
1/8" = 1'-0"



10 FRAMING SECTION
3/4" = 1'-0"

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TX REG: No F-23612

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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
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106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
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F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

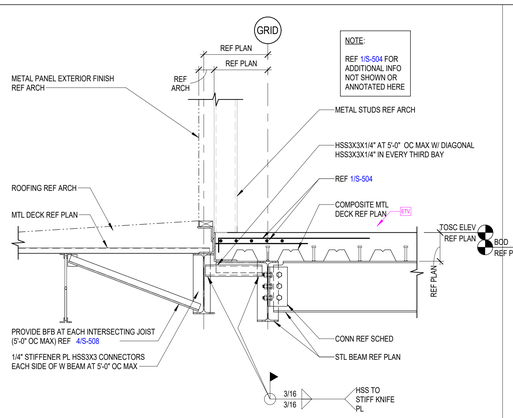
ROOF FRAMING DETAILS

S-525

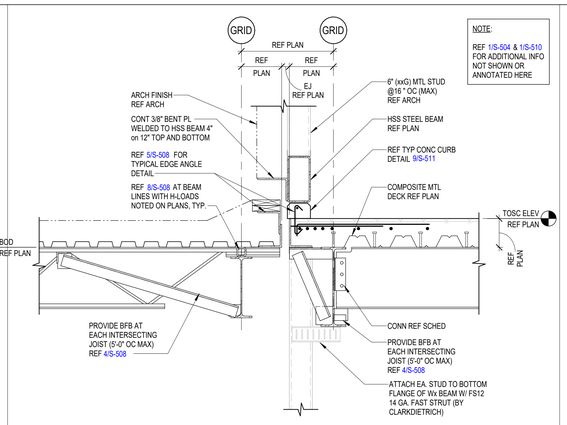
Plot Stamp:
12/5/2025 11:53:05 AM

ROOF FRAMING DETAILS
S-526
FOR BLUEBEAM LABELING/OCR:

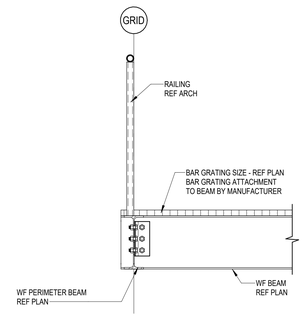
0"
1"



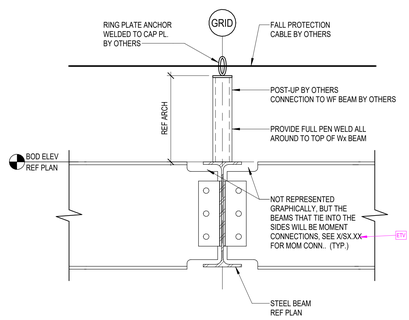
1 ROOF SECTION
3/4" = 1'-0"



2 ROOF SECTION EXPANSION JOINT
3/4" = 1'-0"



3 EDGE DETAIL
3/4" = 1'-0"



4 TYPICAL TIE-BACK POST
1 1/2" = 1'-0"

5 KNEE BRACING AT PLATFORM
3/4" = 1'-0"

6 EXHAUST FAN TIE DOWN CONNECTION
3/4" = 1'-0"

7 MEP DUCTWORK SUPPORT BETWEEN JOISTS
3/4" = 1'-0"

Plot Stamp:
12/5/2025 11:53:06 AM

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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

ROOF FRAMING DETAILS

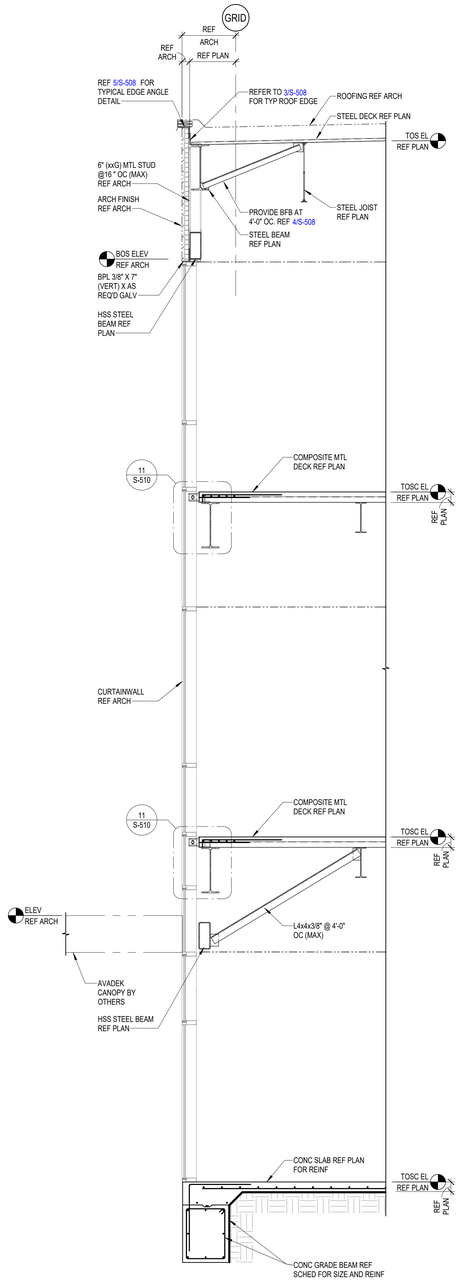
S-526

BUILDING SECTIONS
S-530
FOR BLUEBEAM LABELINGDOOR:

0"
1"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



1 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
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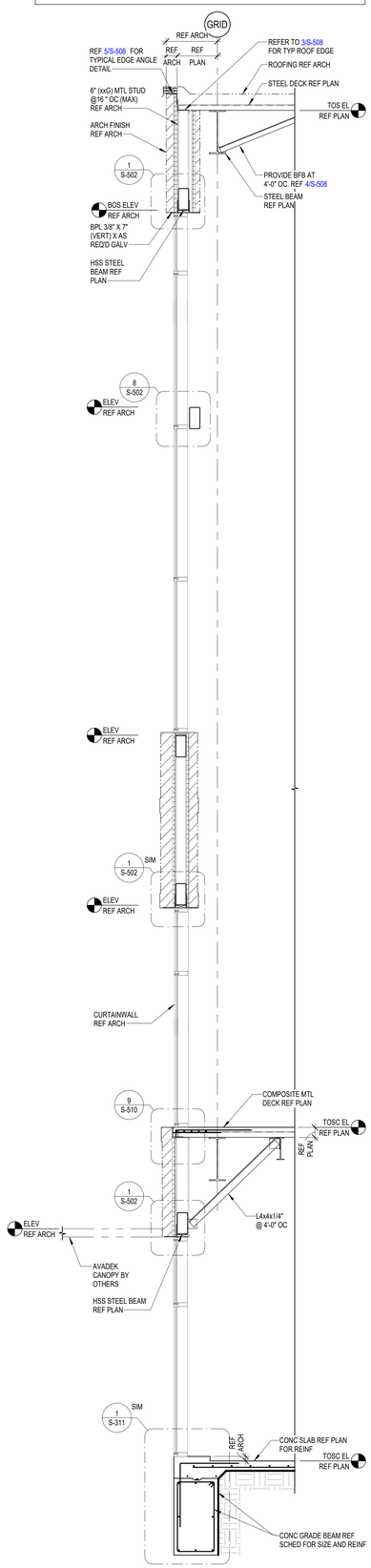
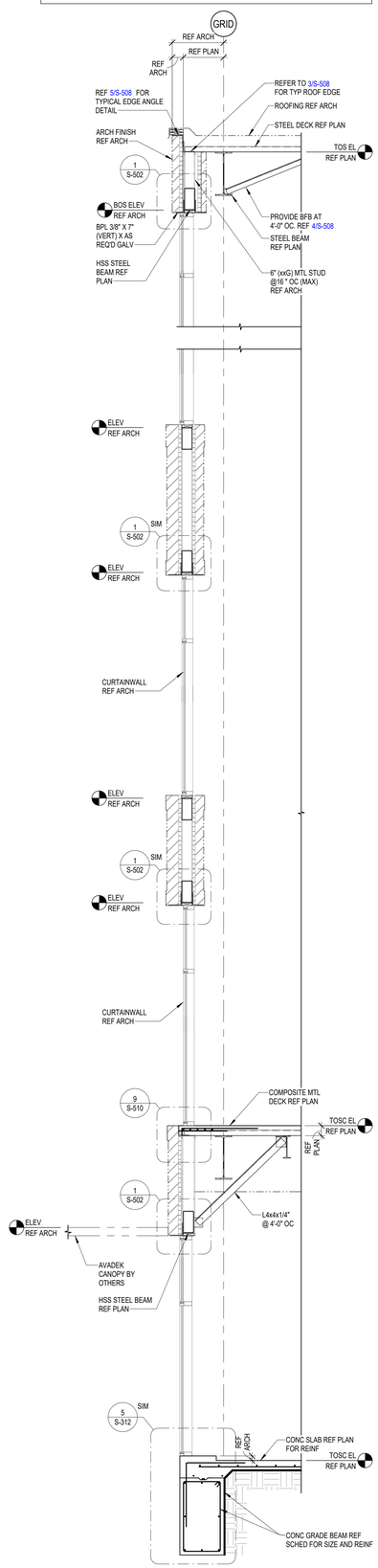
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



2 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

GC NOTES:

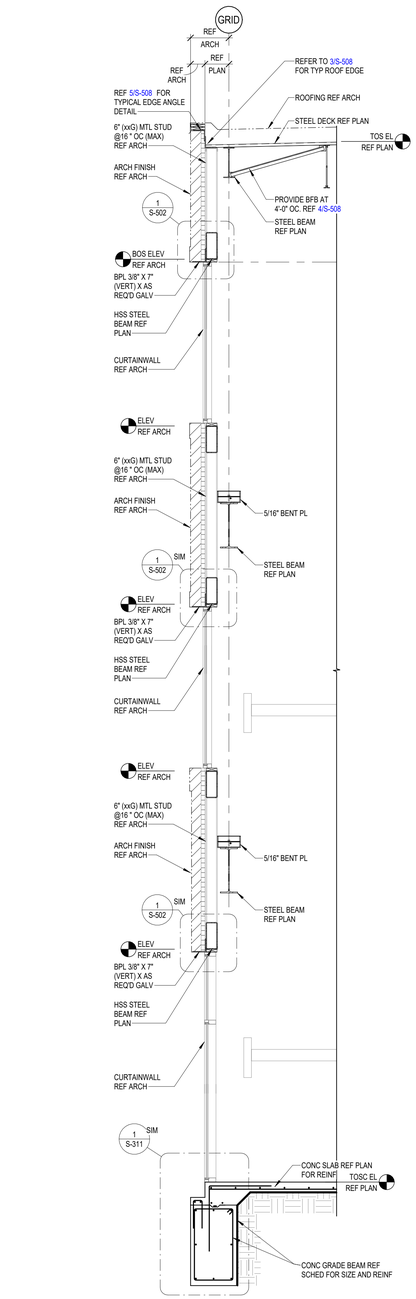
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



3 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



4 AREA C AND E STAIR SECTION
3/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

BUILDING SECTIONS

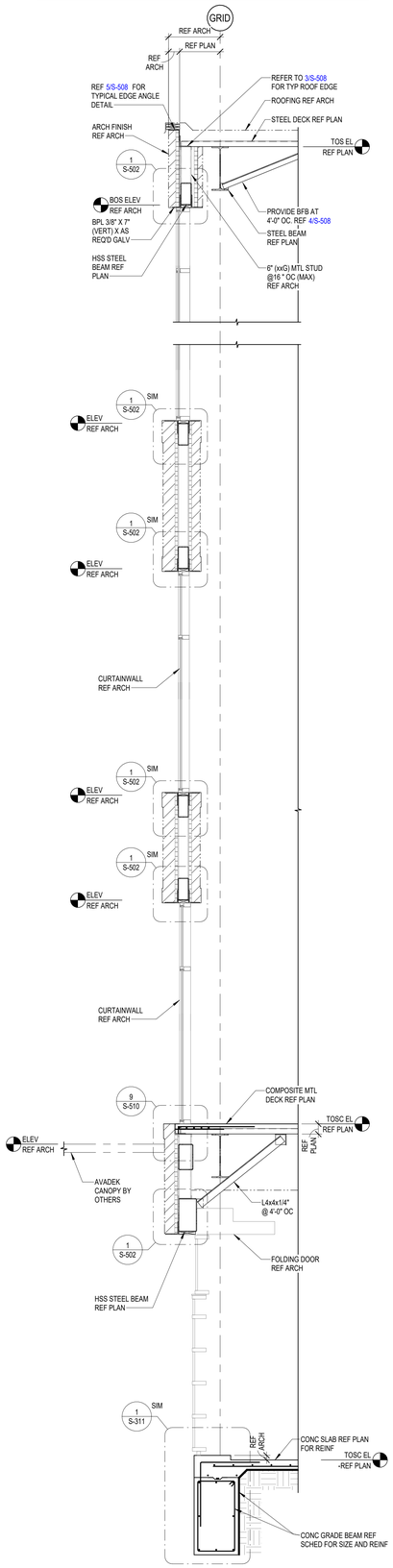
S-530

BUILDING SECTIONS
S-531
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



1 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
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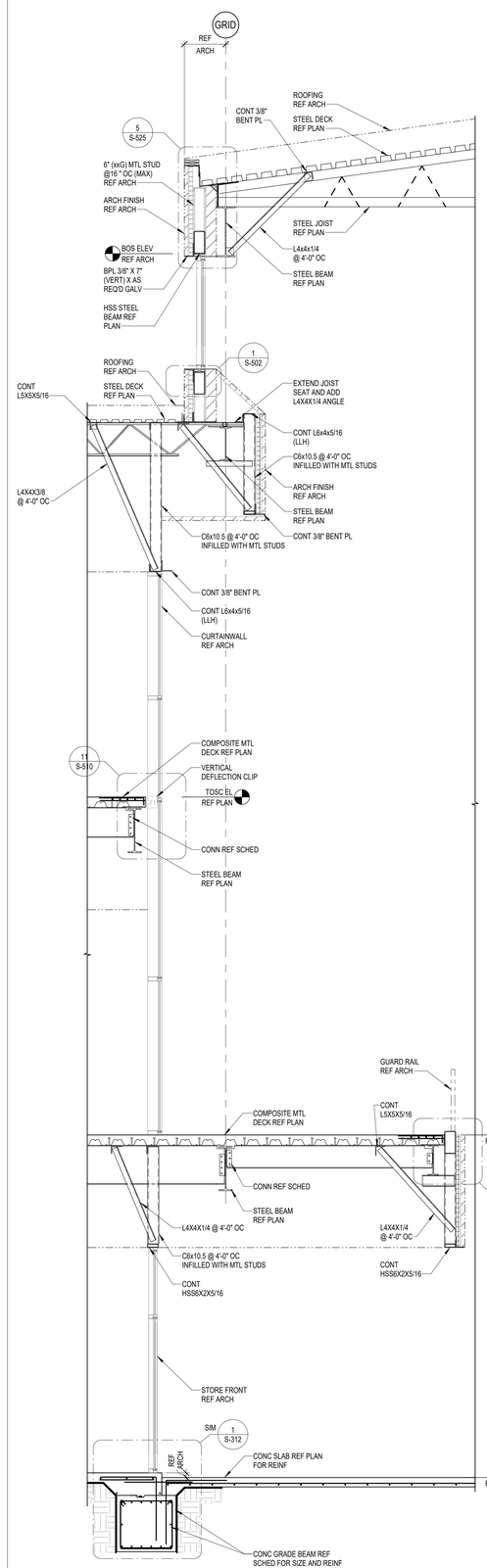
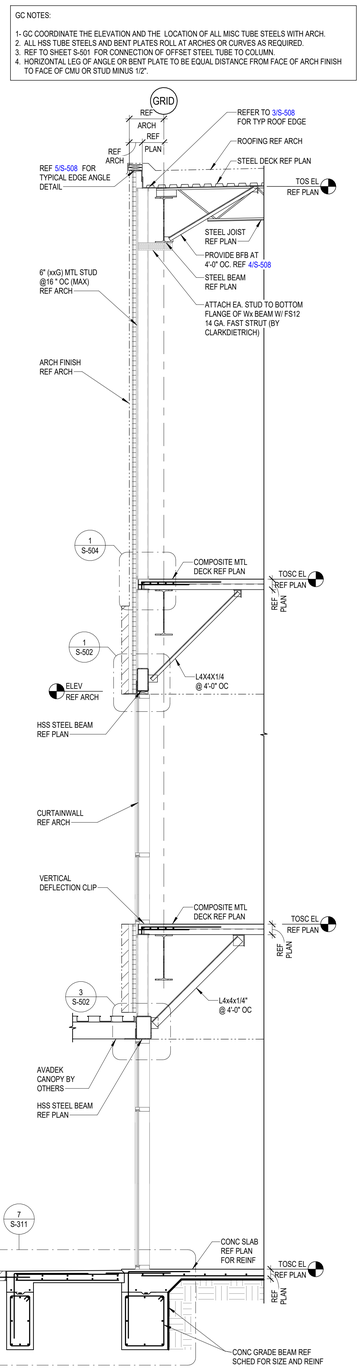


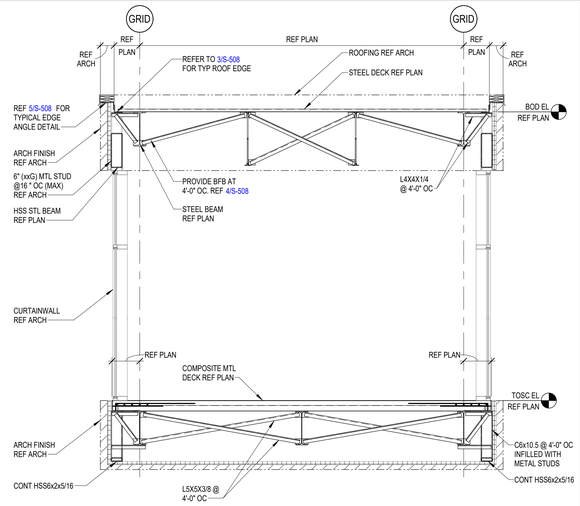
2 BALCONY SECTION
3/8" = 1'-0"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



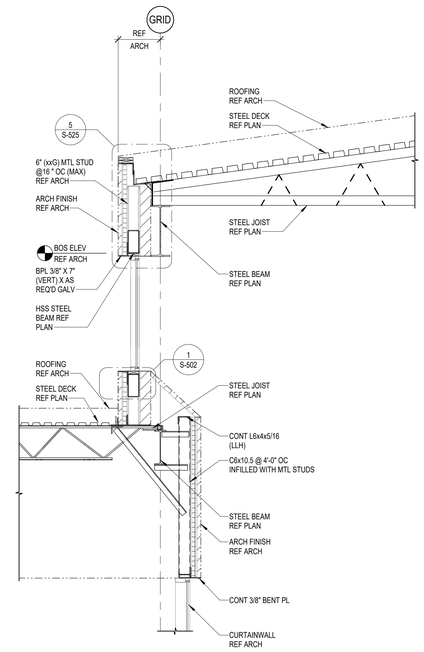
3 AREA B BUILDING SECTION
3/8" = 1'-0"



4 AREA B AND D BRIDGE SECTION
3/8" = 1'-0"

GC NOTES:

1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



5 FRAMING SECTION
3/8" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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KEY PLAN
NORTH: PLAN TRUE



Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

BUILDING SECTIONS

S-531

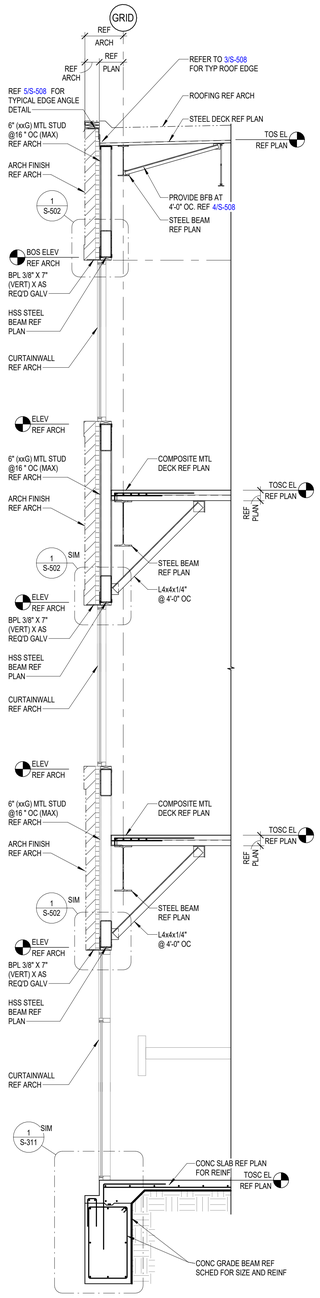
Plot Stamp:
12/5/2025 11:53:09 AM

BUILDING SECTIONS
S-532
FOR BLUEBEAM LABELING/DOOR:

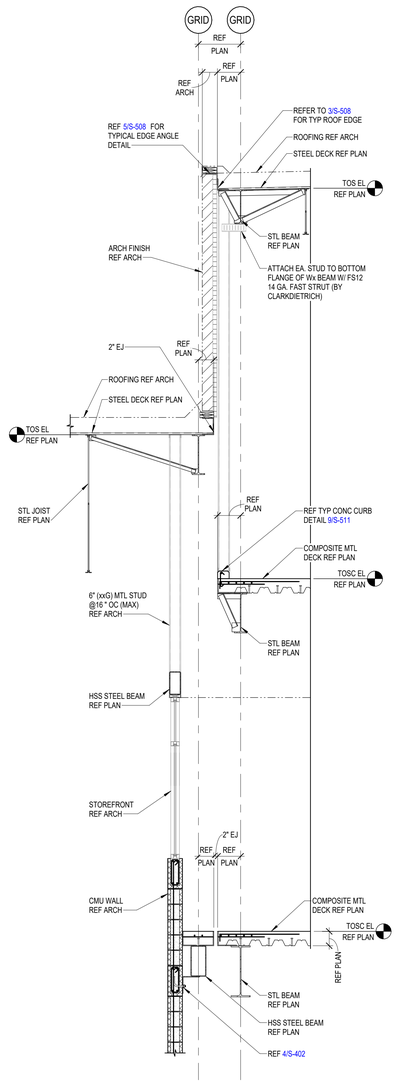
0"
1"

GC NOTES:

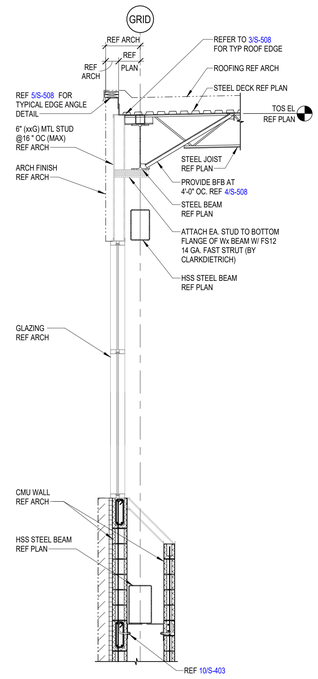
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE OF ARCH FINISH TO FACE OF CMU OR STUD MINUS 1/2".



1 AREA C AND E STAIR SECTION
3/8" = 1'-0"



2 BUILDING SECTION AT GYM EJ
3/8" = 1'-0"



3 BUILDING SECTION AT AREA A GYM
3/8" = 1'-0"

Plot Stamp:
12/5/2025 11:53:10 AM

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KEY PLAN
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STATE OF TEXAS
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106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

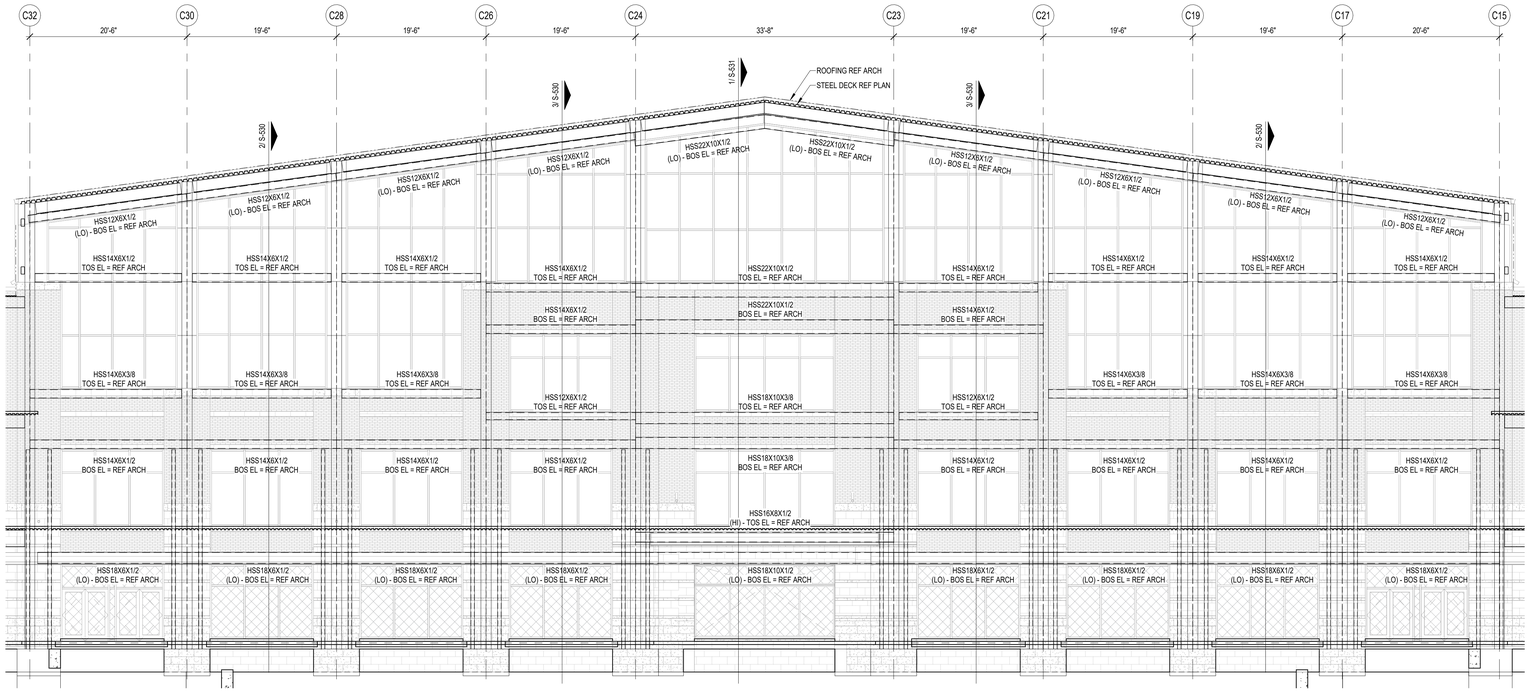
CHECKED BY: SI
DRAWN BY: CML

BUILDING SECTIONS

S-532

BUILDING ELEVATION
S-533
FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 MULTI-PURPOSE FRONT ELEVATION
1/8" = 1'-0"

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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

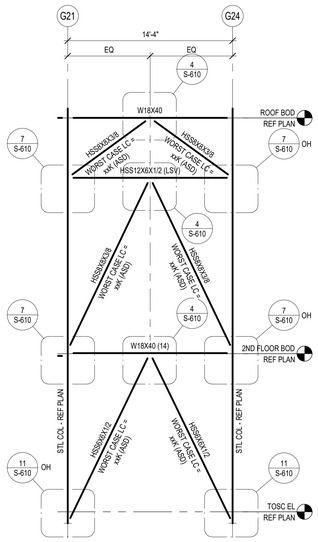
BUILDING ELEVATION

S-533

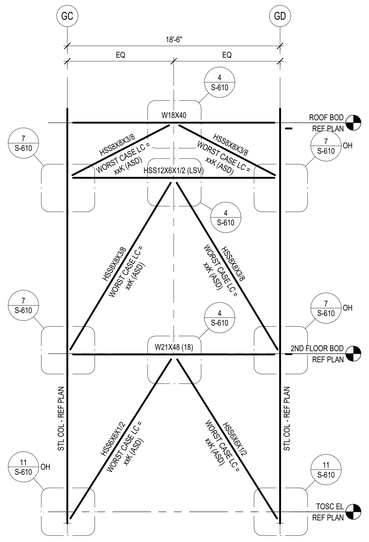
Plot Stamp:
12/5/2025 11:53:14 AM

TYPICAL WIND BRACING ELEVATIONS - AREA A
S-600
FOR BLUEBEAM LABELING/DOOR:

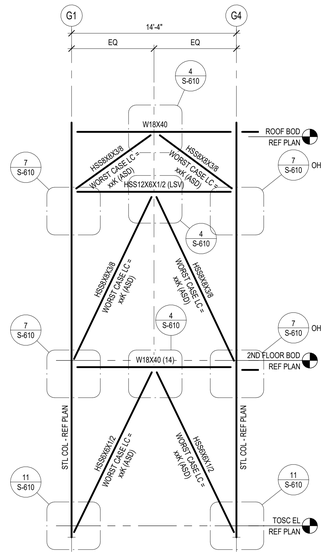
0"
1"



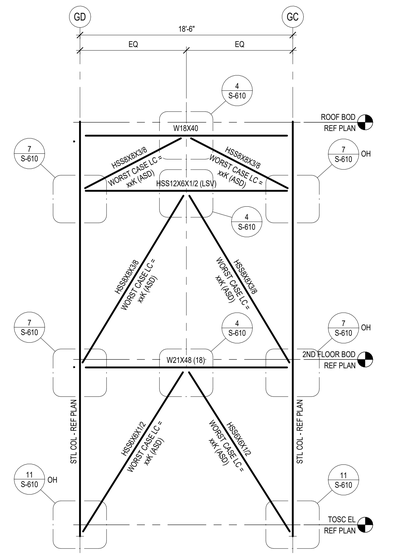
1 BRACE ELEVATION
3/16" = 1'-0"



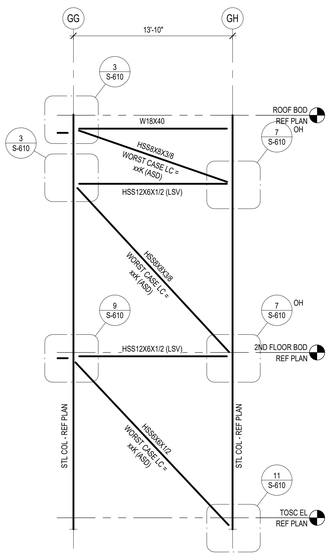
2 BRACE ELEVATION
3/16" = 1'-0"



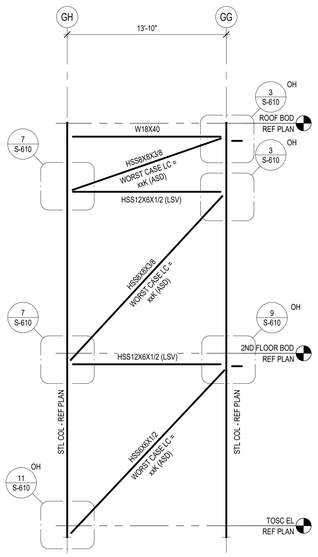
3 BRACE ELEVATION
3/16" = 1'-0"



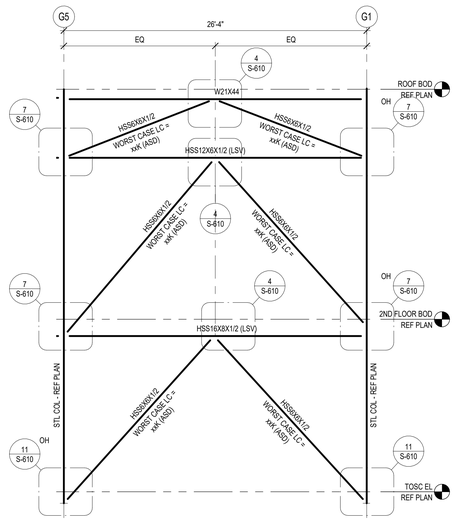
4 BRACE ELEVATION
3/16" = 1'-0"



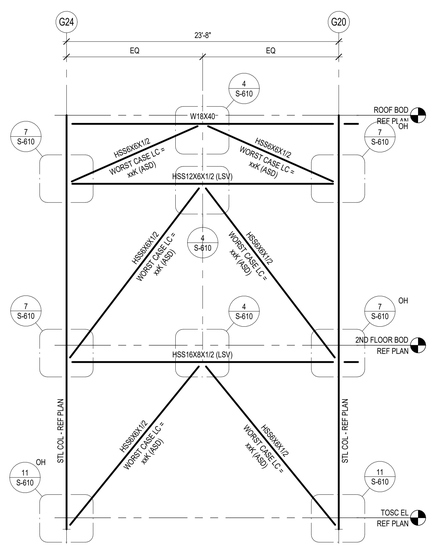
5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"



8 BRACE ELEVATION
3/16" = 1'-0"

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106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

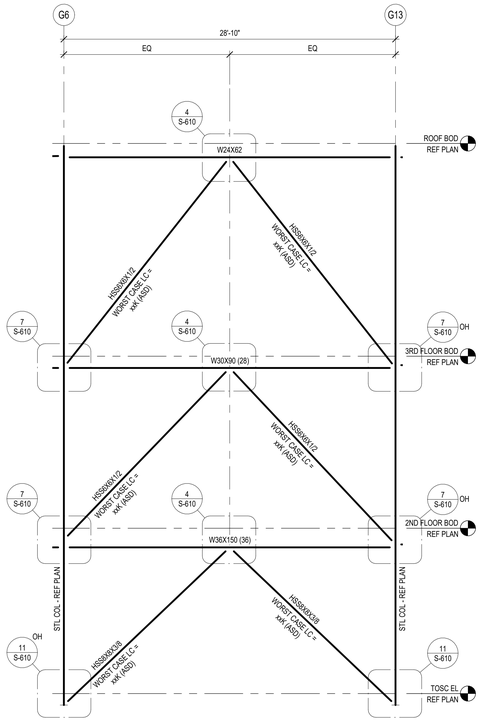
TYPICAL WIND BRACING ELEVATIONS - AREA A

S-600

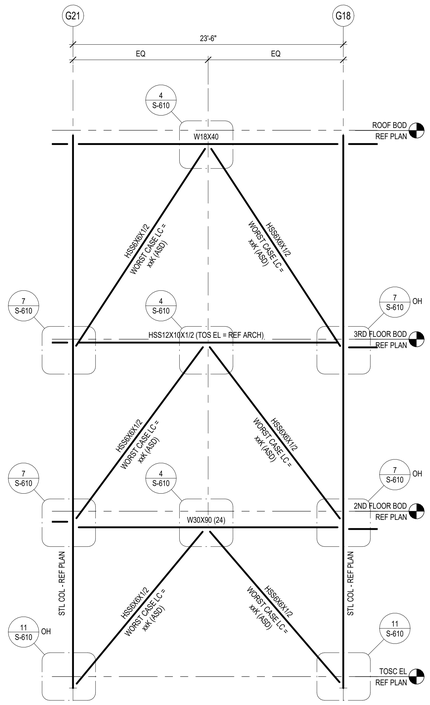
Plot Stamp:
12/5/2025 11:53:16 AM

TYPICAL WIND BRACING ELEVATIONS - AREA B
S-601
FOR BLUEBEAM LABELING/DOOR:

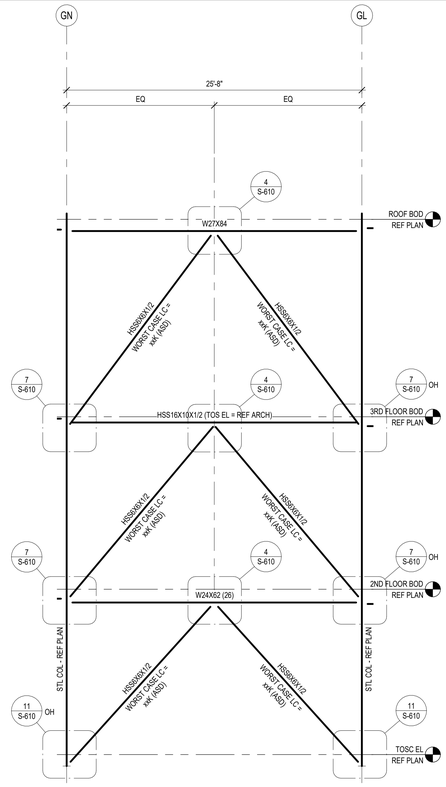
0"
1"



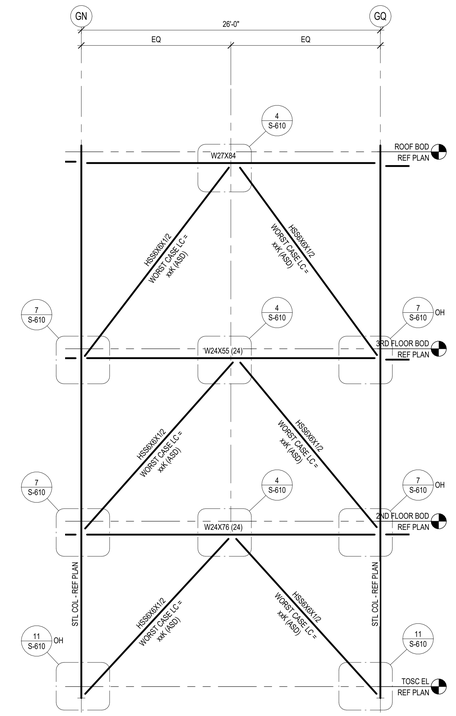
1 BRACE ELEVATION
3/16" = 1'-0"



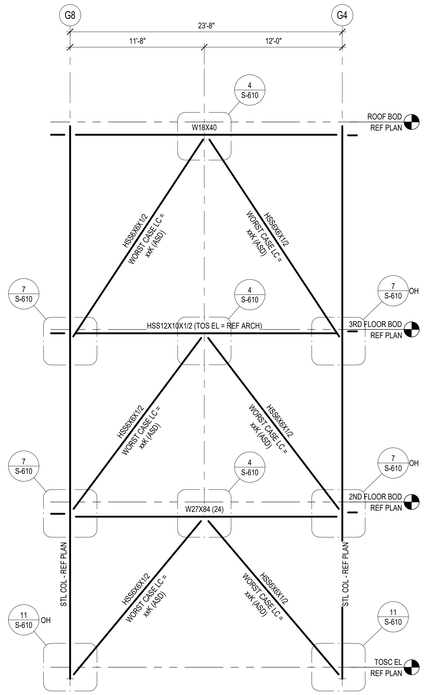
2 BRACE ELEVATION
3/16" = 1'-0"



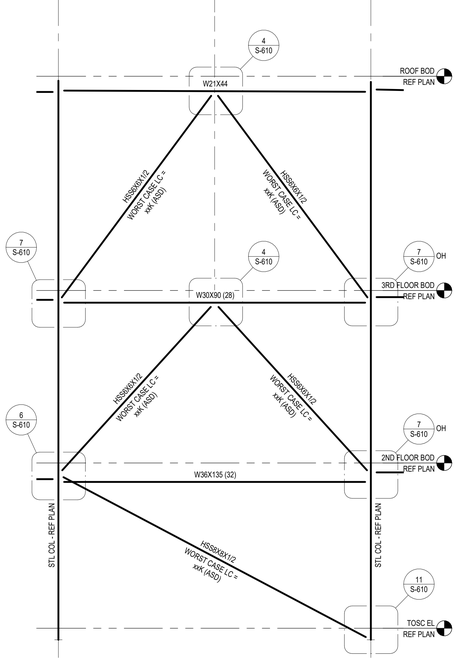
3 BRACE ELEVATION
3/16" = 1'-0"



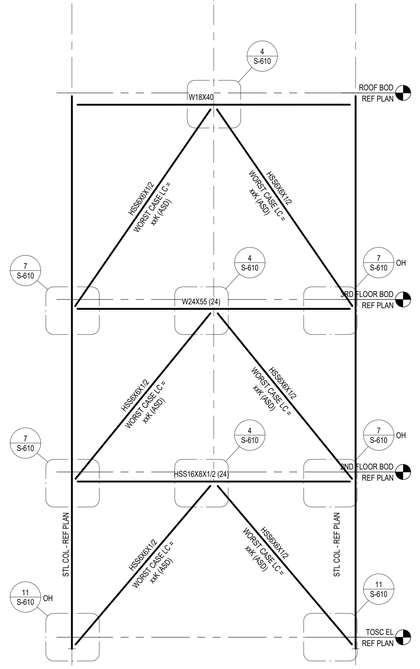
4 BRACE ELEVATION
3/16" = 1'-0"



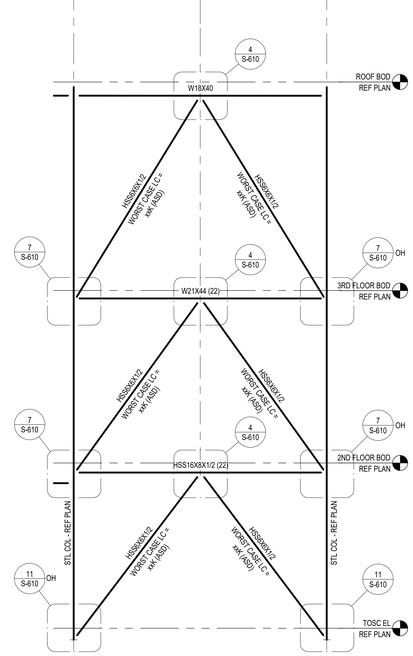
5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"



8 BRACE ELEVATION
3/16" = 1'-0"

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STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

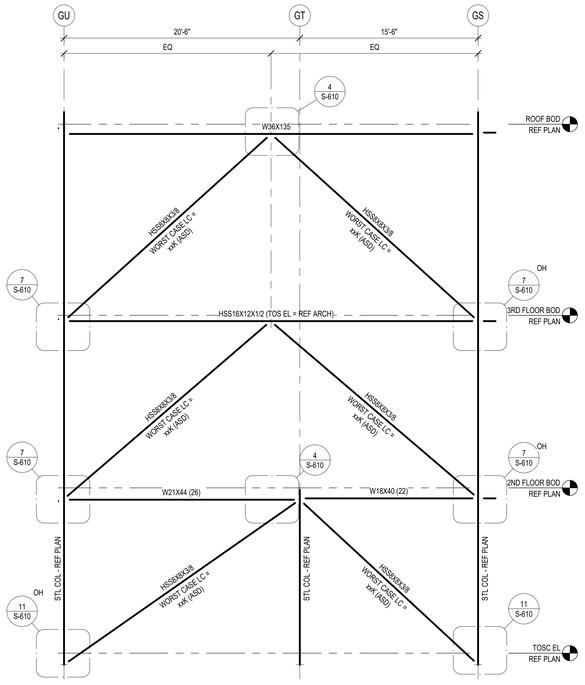
TYPICAL WIND BRACING ELEVATIONS - AREA B

S-601

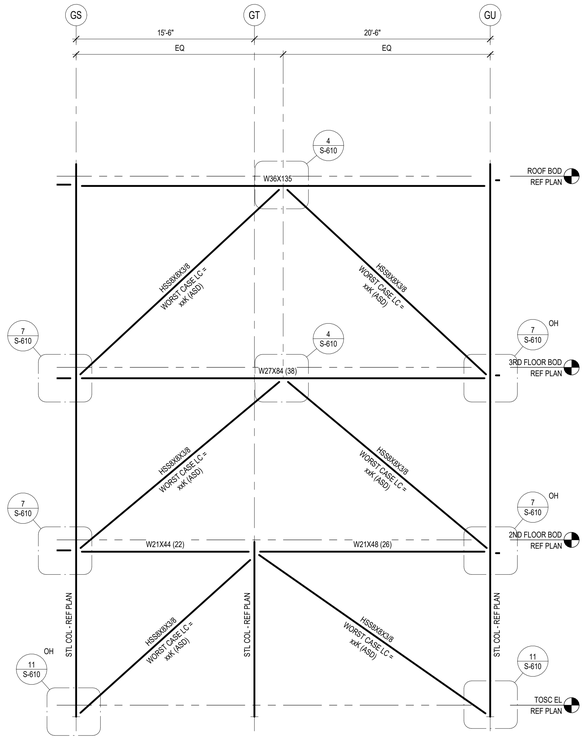
Plot Stamp:
12/5/2025 11:53:19 AM

TYPICAL WIND BRACING ELEVATIONS - AREA B
S-602
FOR BLUEBEAM LABELING/DOOR:

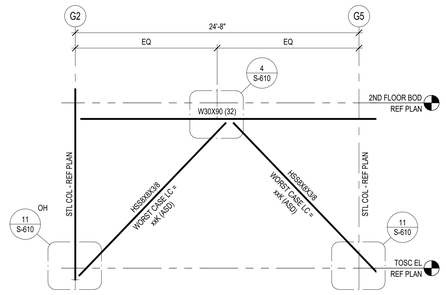
0"
1"



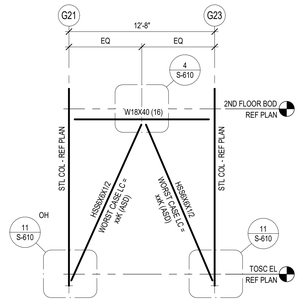
1 BRACE ELEVATION
3/16" = 1'-0"



2 BRACE ELEVATION
3/16" = 1'-0"



3 BRACE ELEVATION
3/16" = 1'-0"



4 BRACE ELEVATION
3/16" = 1'-0"

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KEY PLAN
NORTH: PLAN ≠ TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

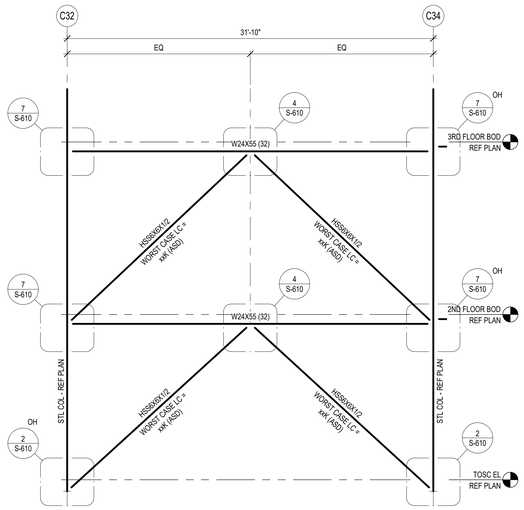
TYPICAL WIND BRACING ELEVATIONS - AREA B

S-602

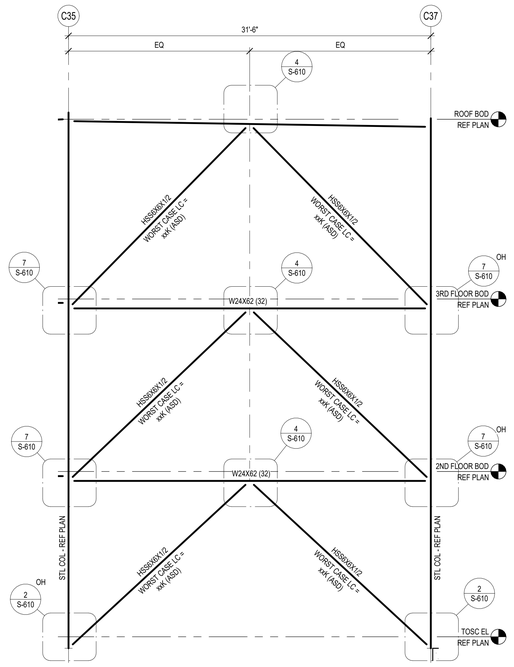
Plot Stamp:
12/5/2025 11:53:20 AM

TYPICAL WIND BRACING ELEVATIONS - AREA C
S-603
FOR BLUEBEAM LABELING/DOOR:

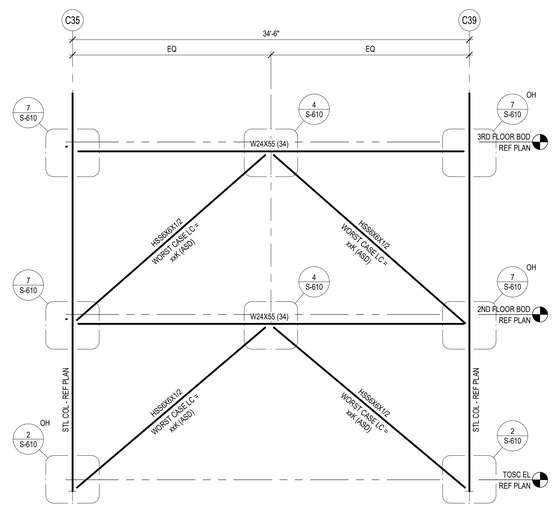
0"
1"



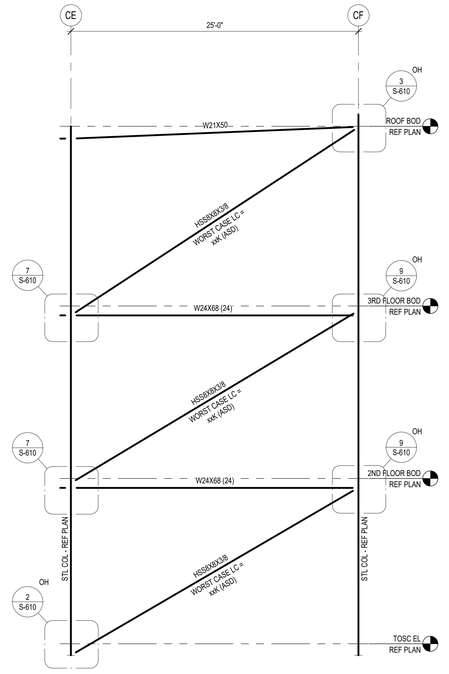
1 BRACE ELEVATION
3/16" = 1'-0"



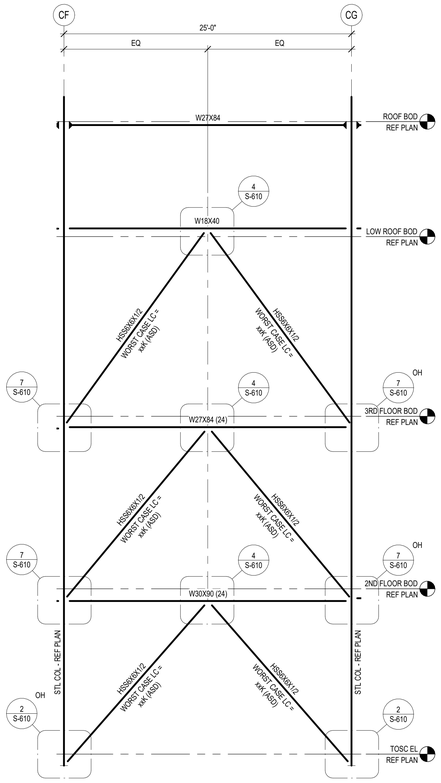
2 BRACE ELEVATION
3/16" = 1'-0"



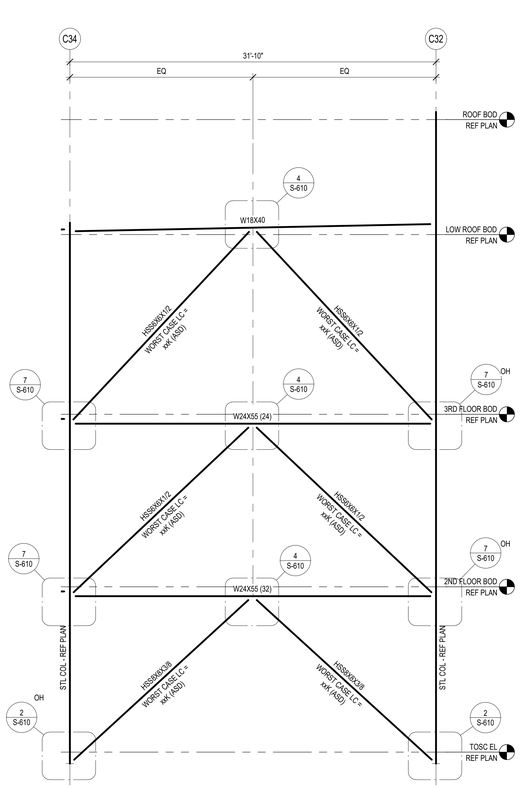
3 BRACE ELEVATION
3/16" = 1'-0"



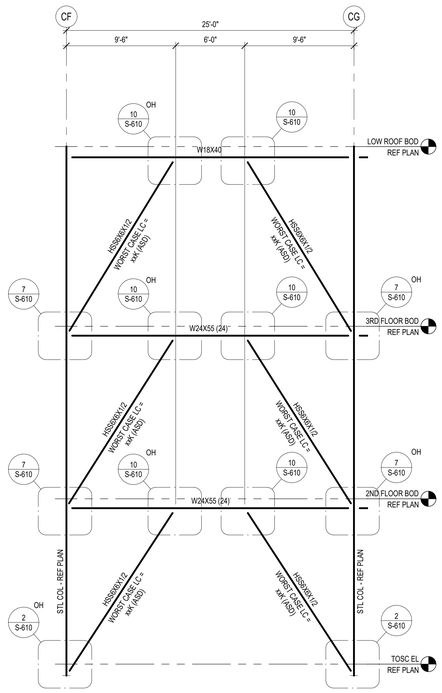
4 BRACE ELEVATION
3/16" = 1'-0"



5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"

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KEY PLAN
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STATE OF TEXAS
JOHN R. KUBALA
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Kubala Engineers
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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

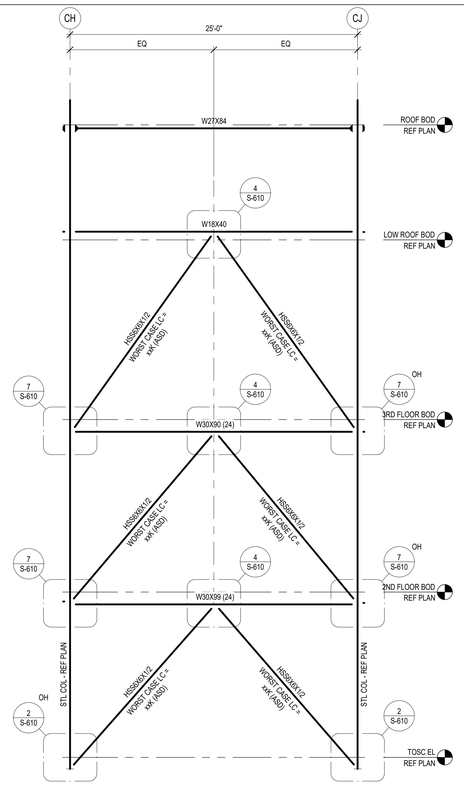
No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

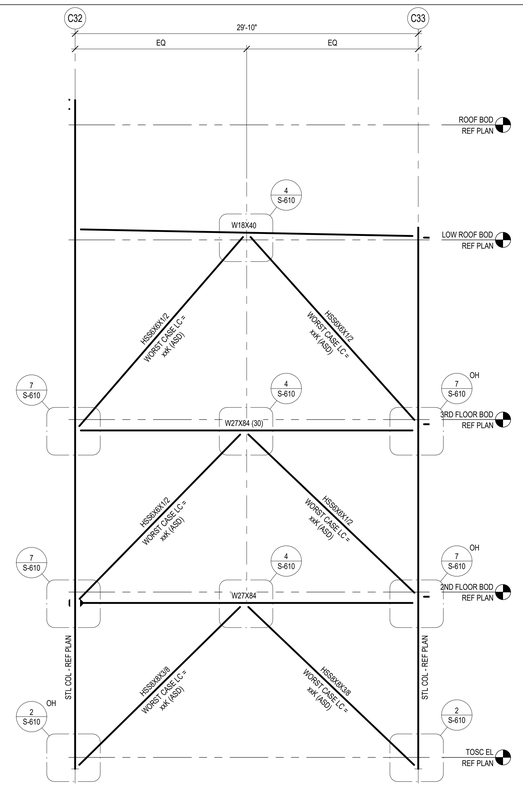
TYPICAL WIND BRACING ELEVATIONS - AREA C

S-603

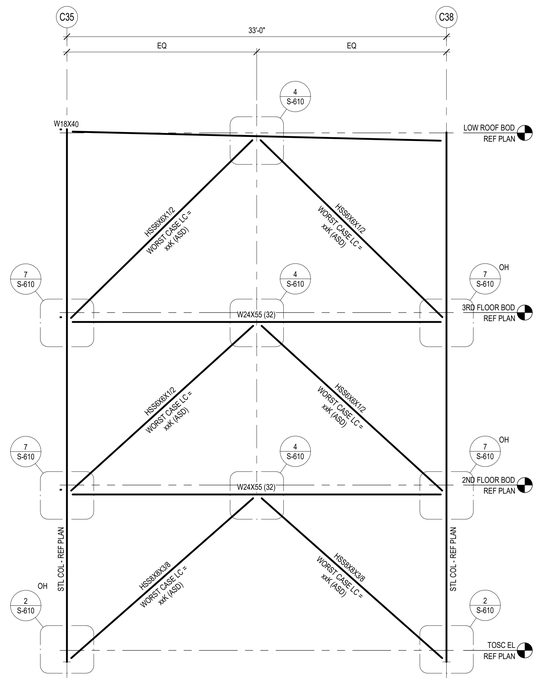
TYPICAL WIND BRACING ELEVATIONS - AREA D
S-604
FOR BLUEBEAM LABELING/DOOR:



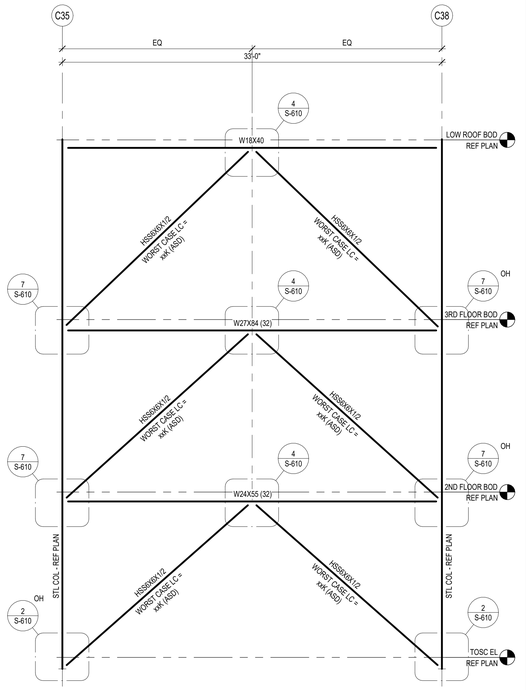
1 BRACE ELEVATION
3/16" = 1'-0"



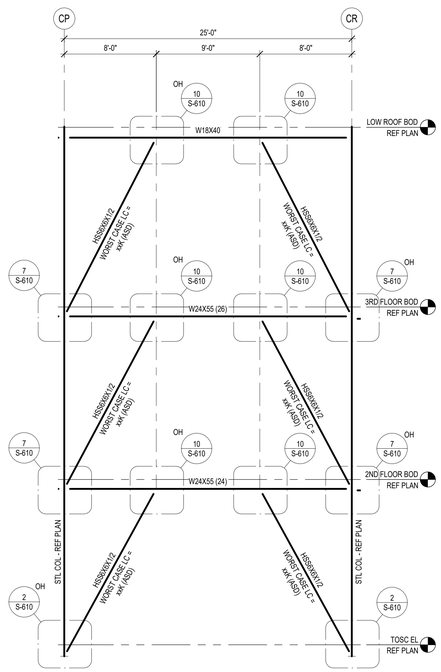
2 BRACE ELEVATION
3/16" = 1'-0"



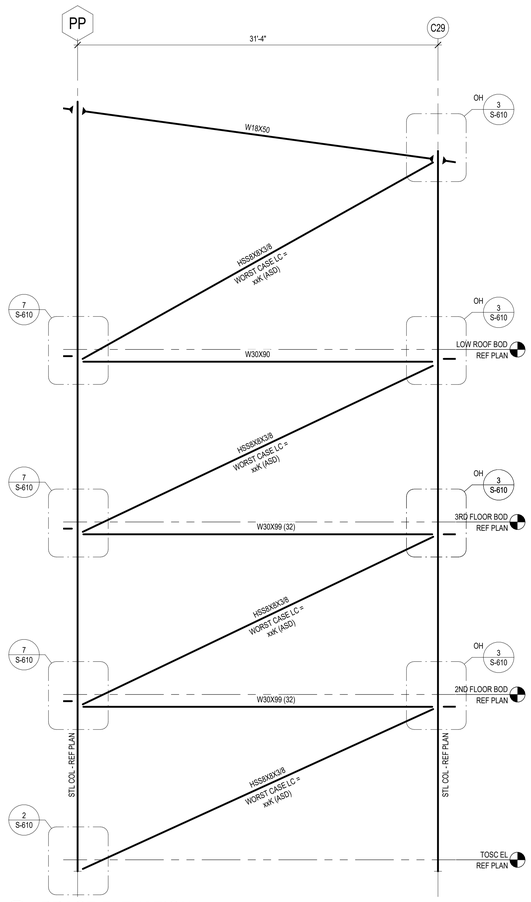
3 BRACE ELEVATION
3/16" = 1'-0"



4 BRACE ELEVATION
3/16" = 1'-0"



5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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TBPE/TBPLS Firm No. 23612
TX: HOU-1 NM-1 OKC-1

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Galena Park, TX 77547



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA D

S-604

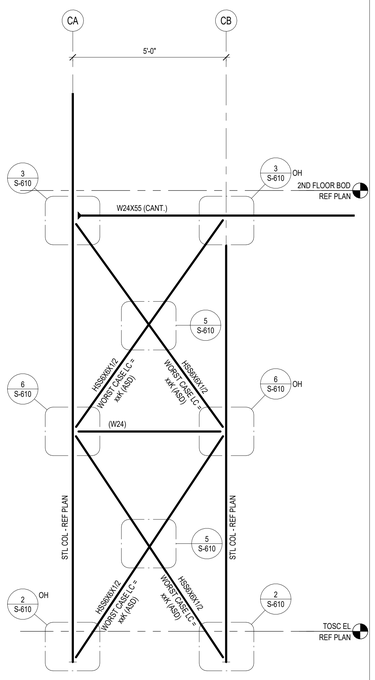
Plot Stamp:
12/5/2025 11:53:25 AM

TYPICAL WIND BRACING ELEVATIONS - AREA E

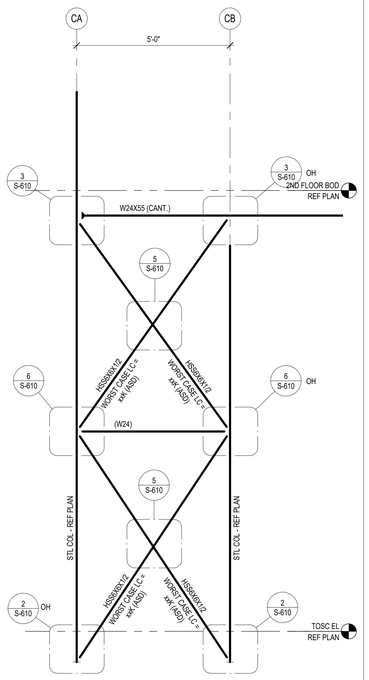
S-605

FOR BLUEBEAM LABELING/DOOR:

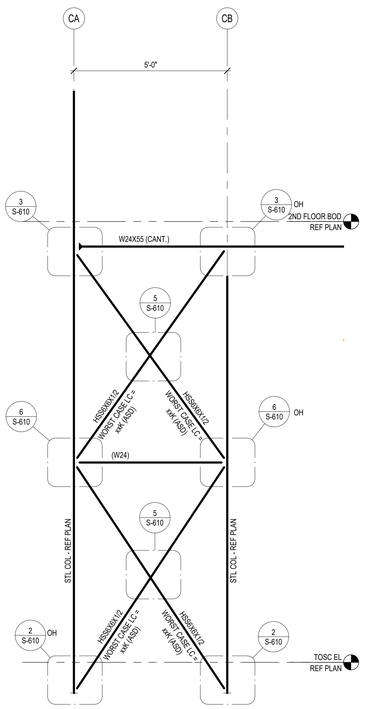
0"
1"



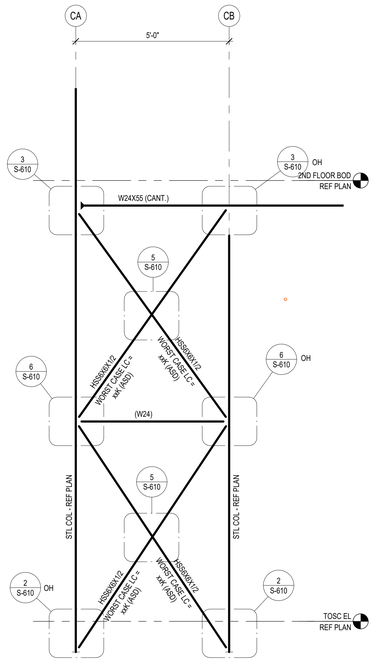
1 BRACE ELEVATION
1/2" = 1'-0"



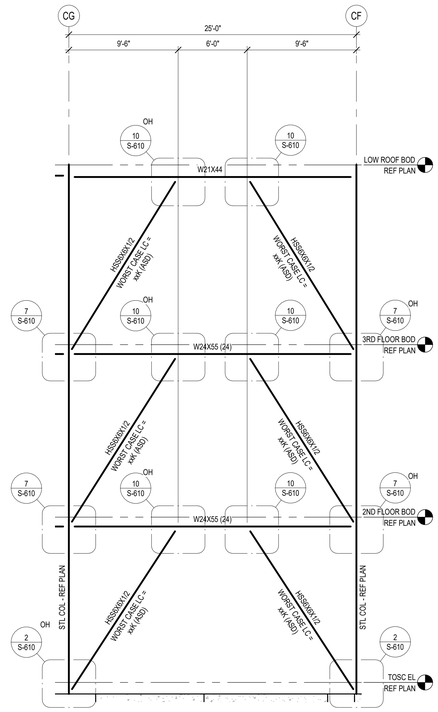
2 BRACE ELEVATION
1/2" = 1'-0"



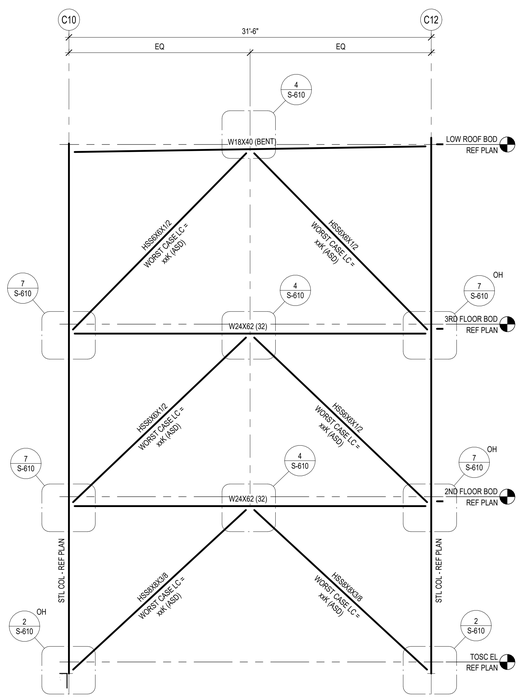
3 BRACE ELEVATION
1/2" = 1'-0"



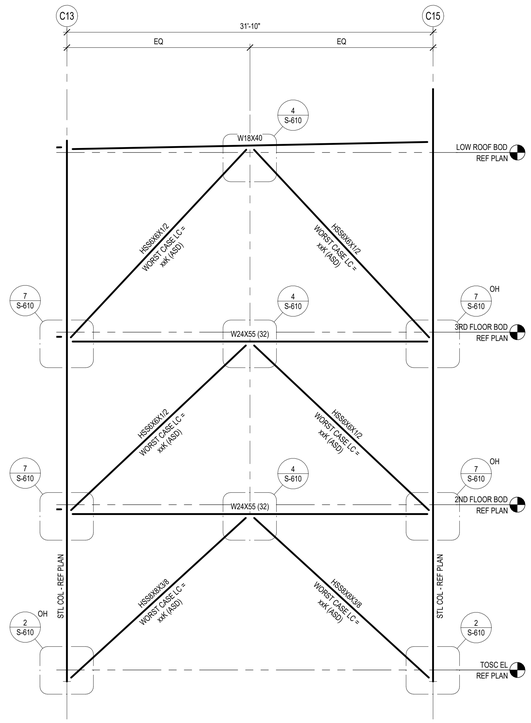
4 BRACE ELEVATION
1/2" = 1'-0"



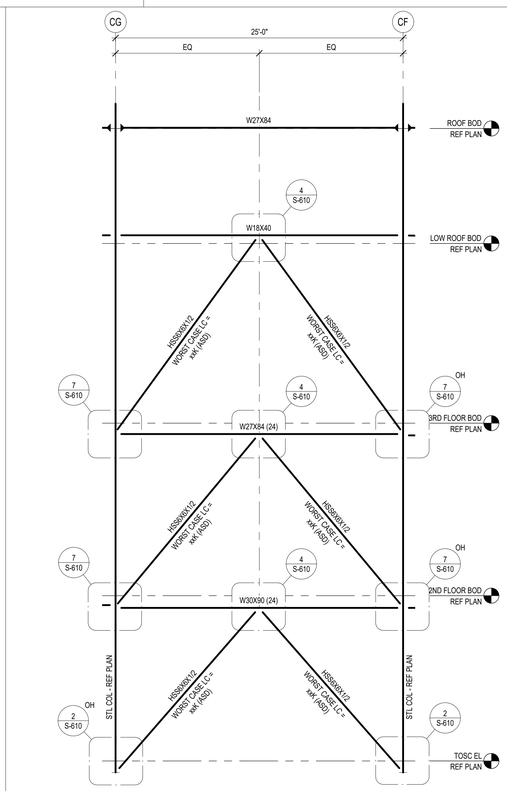
5 BRACE ELEVATION
3/16" = 1'-0"



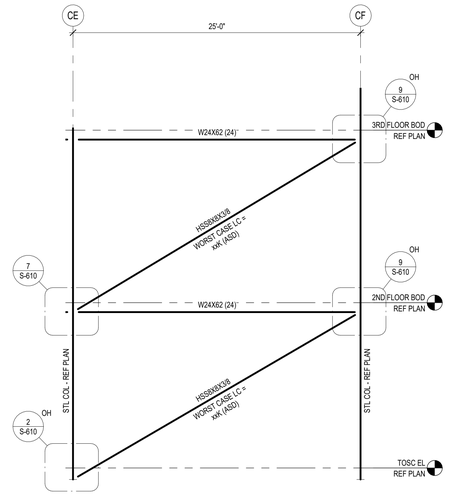
6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"



8 BRACE ELEVATION
3/16" = 1'-0"



9 BRACE ELEVATION
3/16" = 1'-0"

Plot Stamp:
12/5/2025 11:53:28 AM

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Phone: 832-595-4574
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TX REG: No F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

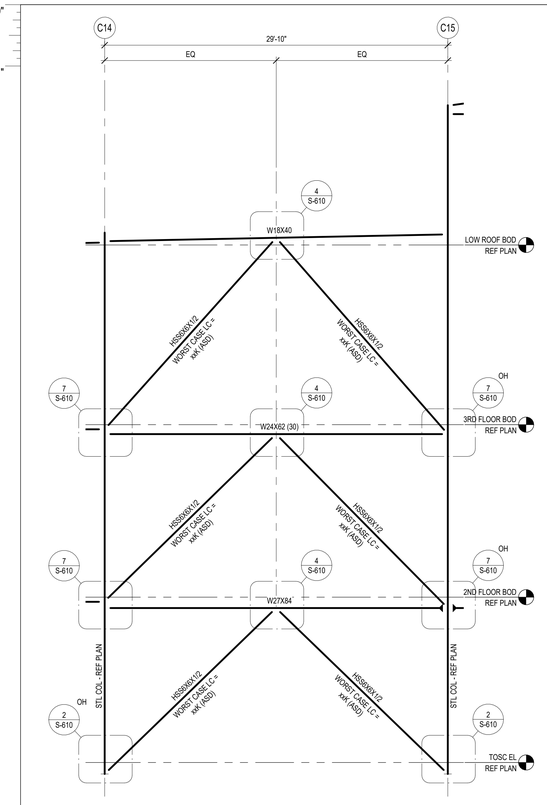
No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

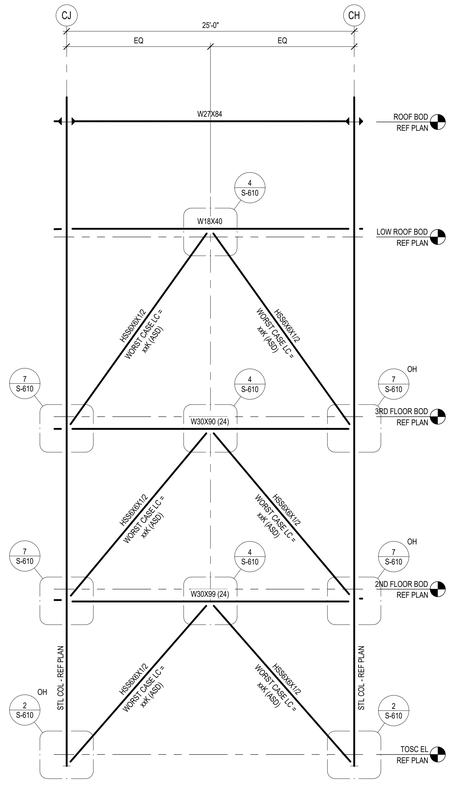
TYPICAL WIND BRACING ELEVATIONS - AREA E

S-605

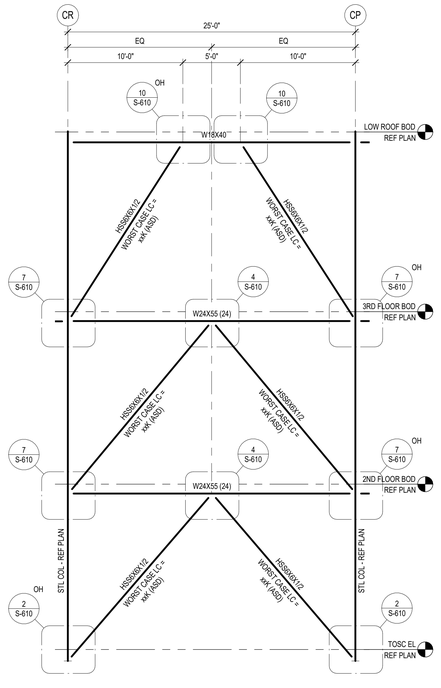
TYPICAL WIND BRACING ELEVATIONS - AREA F
S-606
FOR BLUEBEAM LABELING/DOOR:



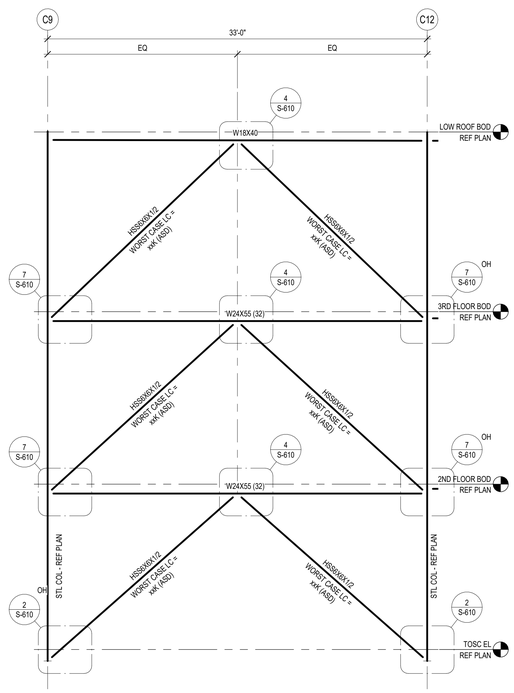
1 BRACE ELEVATION
3/16" = 1'-0"



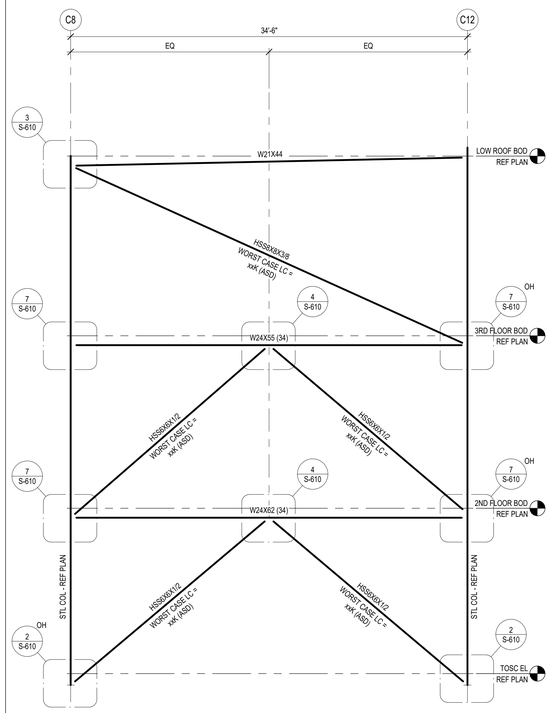
2 BRACE ELEVATION
3/16" = 1'-0"



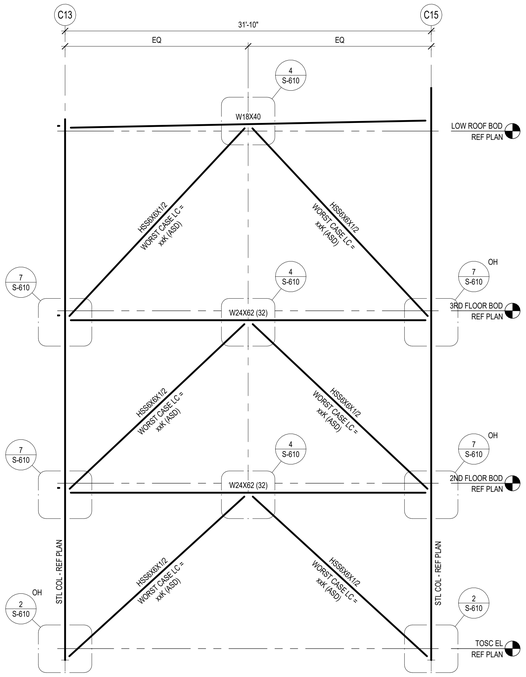
3 BRACE ELEVATION
3/16" = 1'-0"



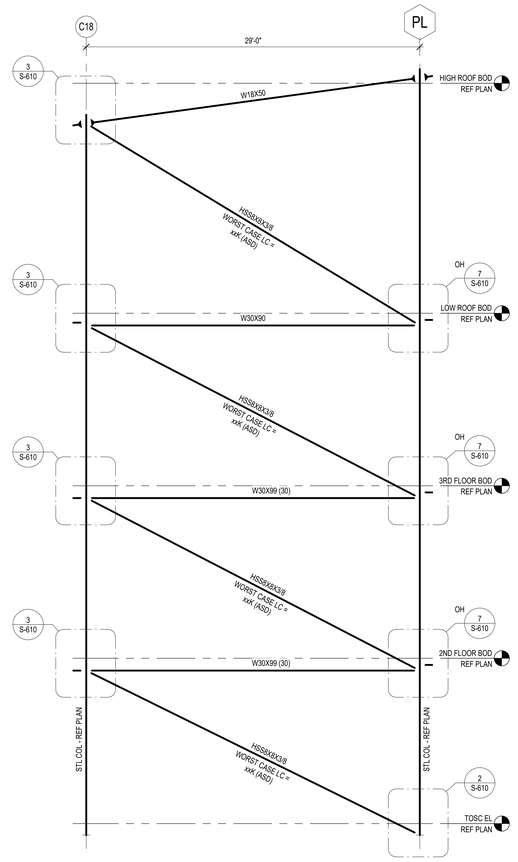
4 BRACE ELEVATION
3/16" = 1'-0"



5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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TBPE/TBAE Firm No. 23612
TX: 4425 | NM: F-23612

Galena Park ISD
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E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

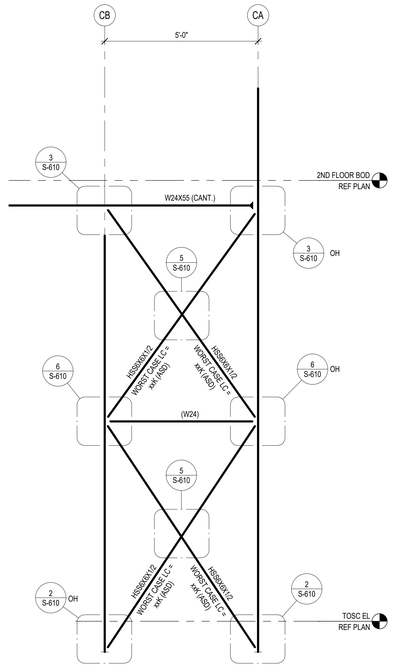
CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA F

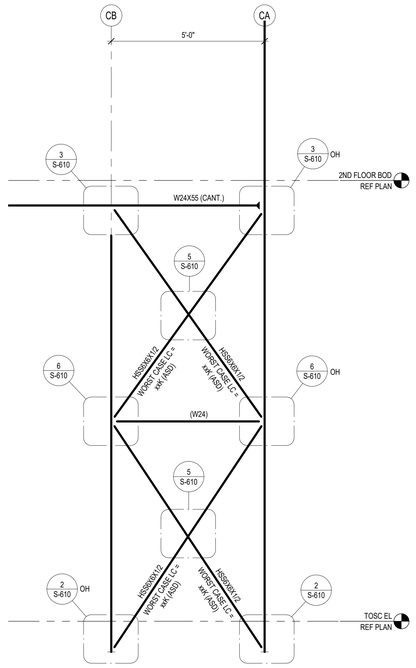
S-606

TYPICAL WIND BRACING ELEVATIONS - AREA G
S-607
FOR BLUEBEAM LABELING/DOOR:

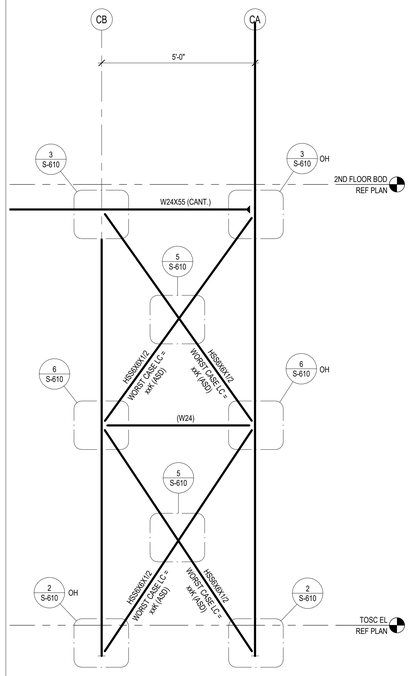
0"
1"



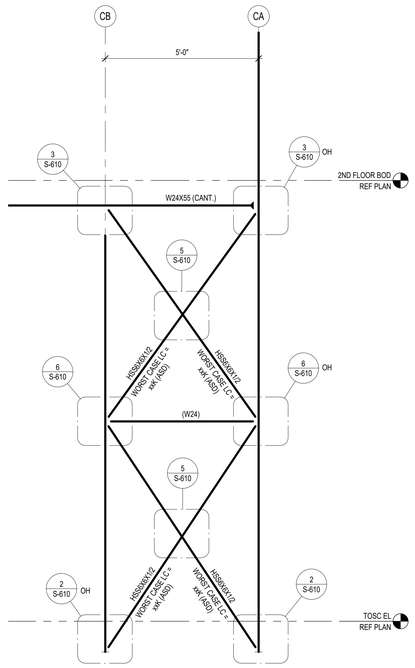
1 BRACE ELEVATION
1/2" = 1'-0"



2 BRACE ELEVATION
1/2" = 1'-0"



3 BRACE ELEVATION
1/2" = 1'-0"



4 BRACE ELEVATION
1/2" = 1'-0"

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www.kubalaengineers.com
TX: 14C01 Ind: F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA G

S-607

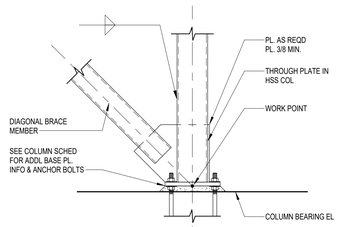
Plot Stamp:
12/5/2025 11:53:33 AM

TYPICAL WIND BRACING DETAILS
S-610
FOR BLUEBEAM LABELING/DOOR:

0"
1"

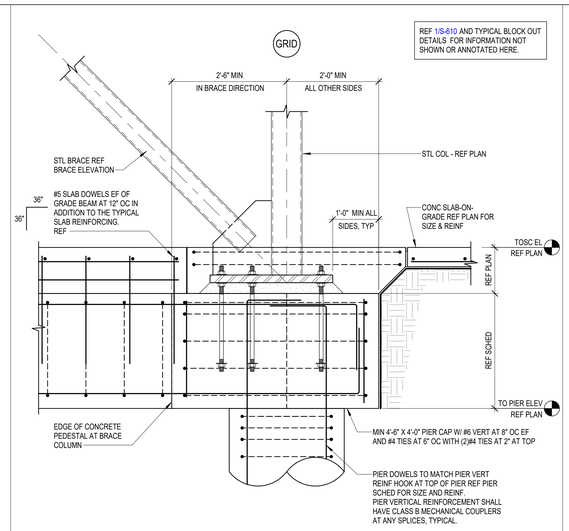
VERTICAL BRACE NOTES:

1. VERTICAL BRACE CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS WORKING FOR THE FABRICATOR. SUBMIT CALCULATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. MEMBER CONNECTIONS TO BE DESIGNED FOR FORCES (KIPS) SHOWN. FORCES INDICATED ARE UNFACTORED ACCORDING TO ALLOWABLE STRESS DESIGN METHOD (ASD). WHERE FORCES ARE NOT GIVEN, DESIGN FOR THE TENSILE CAPACITY OF THE DIAGONAL MEMBERS.
3. CONNECTIONS SHALL BE DESIGNED AND DETAILED TO TRANSFER FORCES BETWEEN MEMBERS WITHOUT ECCENTRICITY.
4. CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR BOTH TENSION AND COMPRESSION PER FORCES PROVIDED.
5. FILLET WELD CONNECTIONS SHALL COMPLY WITH REQUIREMENTS NOTED IN AWS D1.1

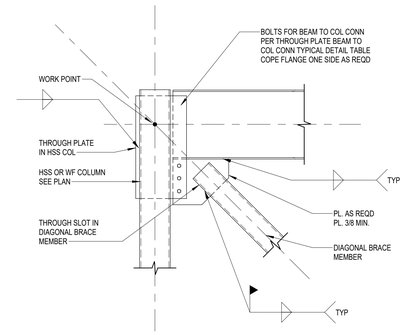


SECTION VIEW

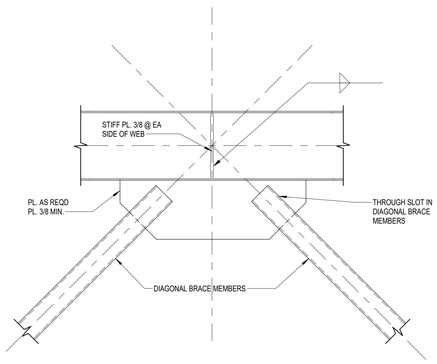
1 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



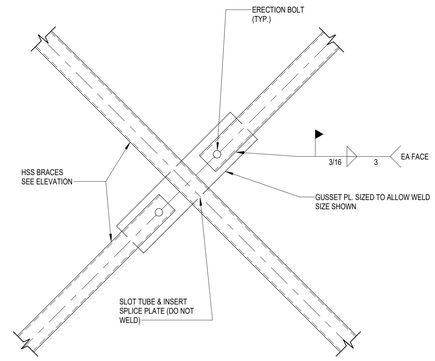
2 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



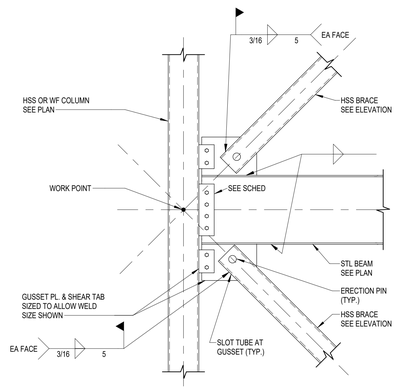
3 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



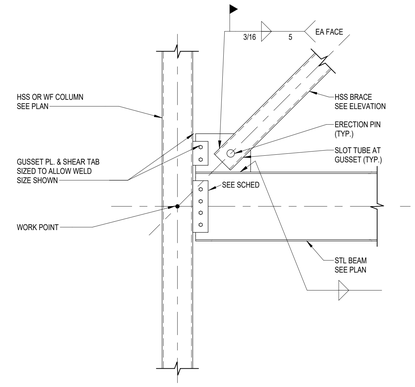
4 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



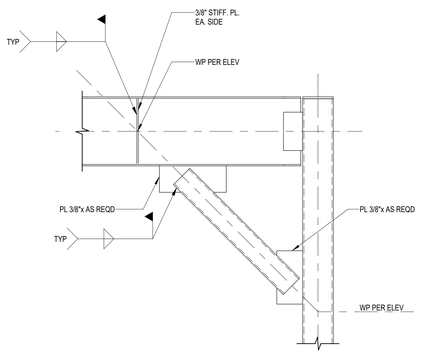
5 TYPICAL DETAIL OF TUBE X-BRACE
NO SCALE



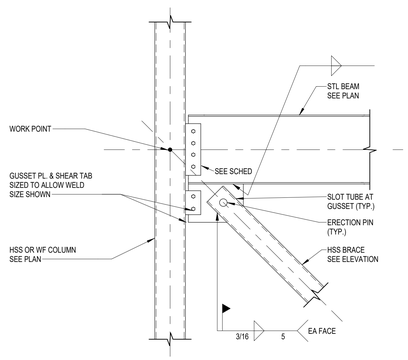
6 TYPICAL DETAIL OF TUBE K-BRACE AT WIDE FLANGE BEAM
NO SCALE



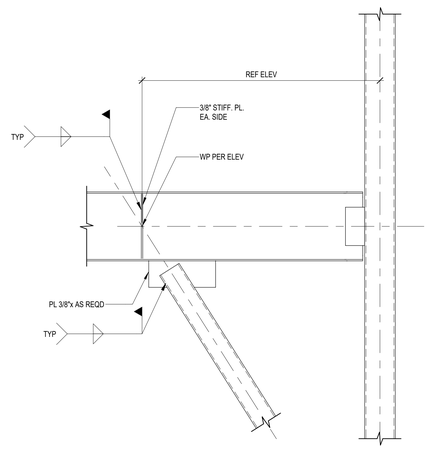
7 TYPICAL DETAIL OF TUBE K-BRACE AT WIDE FLANGE BEAM
NO SCALE



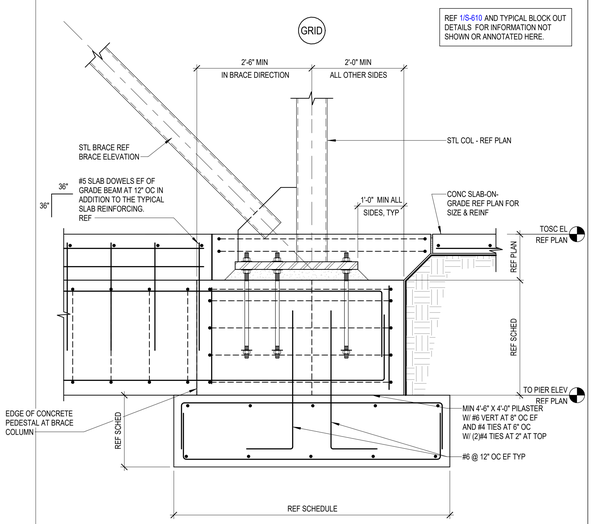
8 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



9 TYPICAL DETAIL OF TUBE K-BRACE AT WIDE FLANGE BEAM
NO SCALE



10 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



11 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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TX REG: No. F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539
DRAWING HISTORY

No.	Description	Date

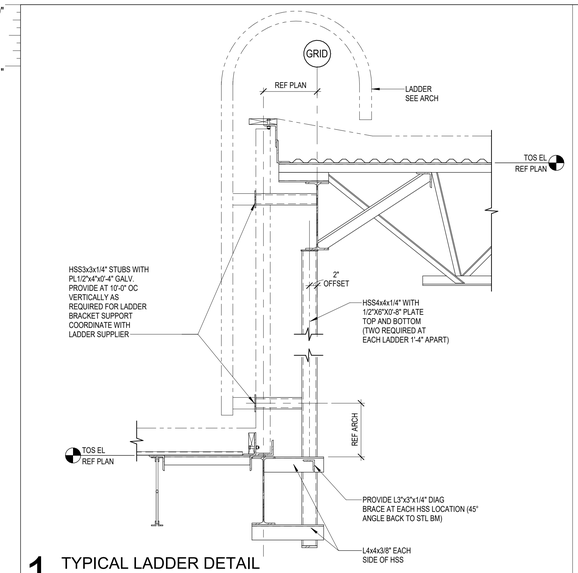
CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING DETAILS

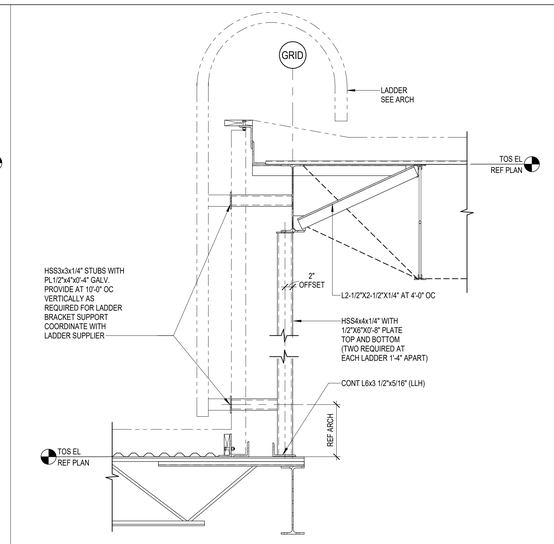
S-610

Plot Stamp:
12/5/2025 11:53:34 AM

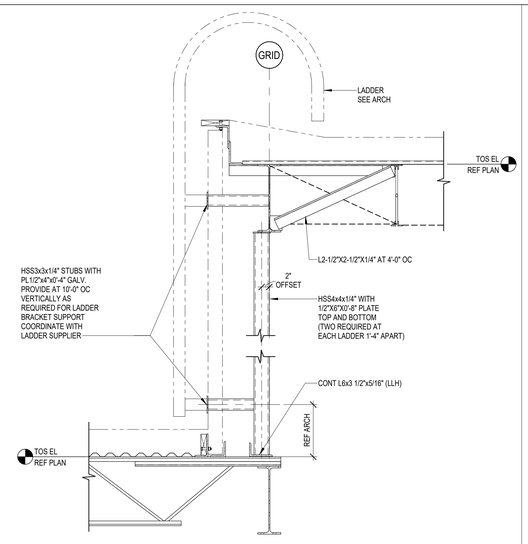
TYPICAL LADDER DETAILS
S-700
FOR BLUEBEAM LABELING/OCR:



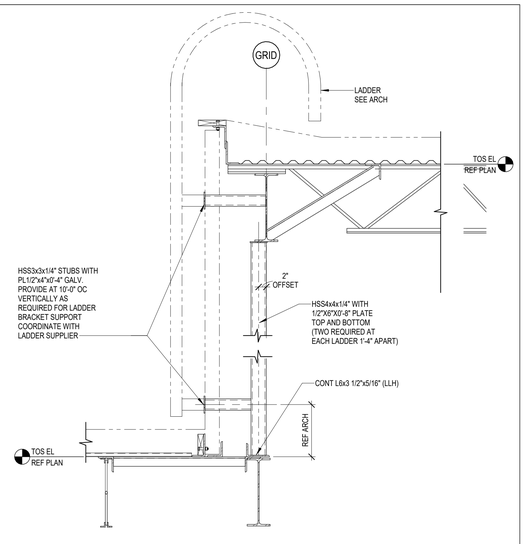
1 TYPICAL LADDER DETAIL
3/4" = 1'-0"



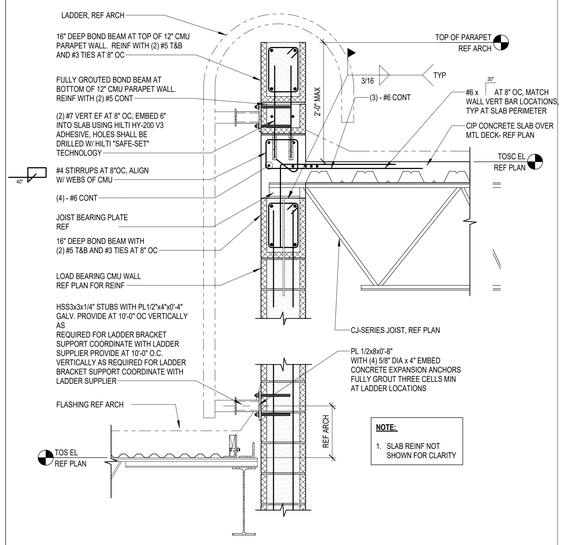
2 TYPICAL LADDER DETAIL
3/4" = 1'-0"



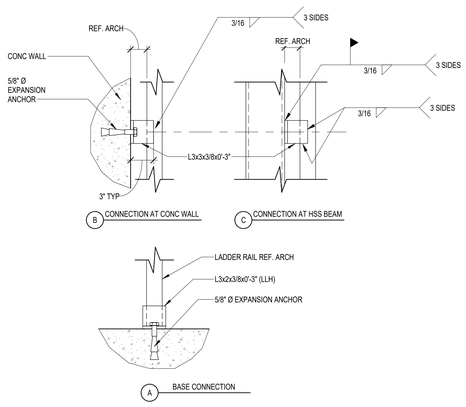
3 TYPICAL LADDER DETAIL
3/4" = 1'-0"



4 TYPICAL LADDER DETAIL
3/4" = 1'-0"



5 TYPICAL LADDER DETAIL
3/4" = 1'-0"



9 LADDER SUPPORT DETAIL
1 1/2" = 1'-0"

NOTE:

GC SHALL COORDINATE LADDER TYPE, LOCATION, CONNECTION, AND HEIGHT WITH ARCH PRIOR TO CONSTRUCTION.

Plot Stamp:
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TX REG: No F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
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12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SI
DRAWN BY: CML

TYPICAL LADDER DETAILS

S-700

MASTER SITE PLAN
AS-101
FOR BLUEBEAM LABELING/DOOR:

0"
1"

EXISTING PARKING

11TH ST.

7TH ST.

6TH ST.

KEENE ST

01/AS-111

EXISTING 14 CLASSROOM ADDITION (PHASE 1)

EXISTING LILLY BUILDING

EXISTING HIGH SCHOOL

PROPOSED 3-STORY ACADEMICS & MULTIPURPOSE

PROPOSED 2-STORY GYMNASIUM BUILDING

DEMENT FIELD

EXISTING CTE & DINING COMMONS BUILDING (PHASE 2)

EXISTING (OLD) CTE

PARKSIDE DR

NEW CENTRAL PLANT UNDER CONSTRUCTION (PHASE 3C, N.I.C.)

SERVICE YARD

FIRE LINE

11TH ST

10TH ST.

8TH ST.

EXISTING PRACTICE FIELD

7TH ST.

6TH ST.

NEW FIELD HOUSE UNDER CONSTRUCTION (PHASE 3A)

GENERAL SITE PLAN NOTES

1. REFER TO CIVIL DOCUMENTS.
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

SITE PLAN LEGEND

- EXISTING BUILDING TO REMAIN (N.I.C.)
- PROPOSED BUILDING / ADDITION
- SOD OR PLANTING, SEE LANDSCAPE DRAWINGS
- CONCRETE SIDEWALK, SEE CIVIL / LANDSCAPE DRAWINGS
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- PROPERTY LINE
- EASEMENT LINE / SETBACK
- LOW — LIMIT OF WORK
- FIRE LANE

0 25 50 100 150 FT

01 PKG 3B - SITE PLAN
1" = 50'-0"

Plot Stamp:
12/5/2025 1:56:12 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY STATE OF TEXAS 25573

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

MASTER SITE PLAN

AS-101

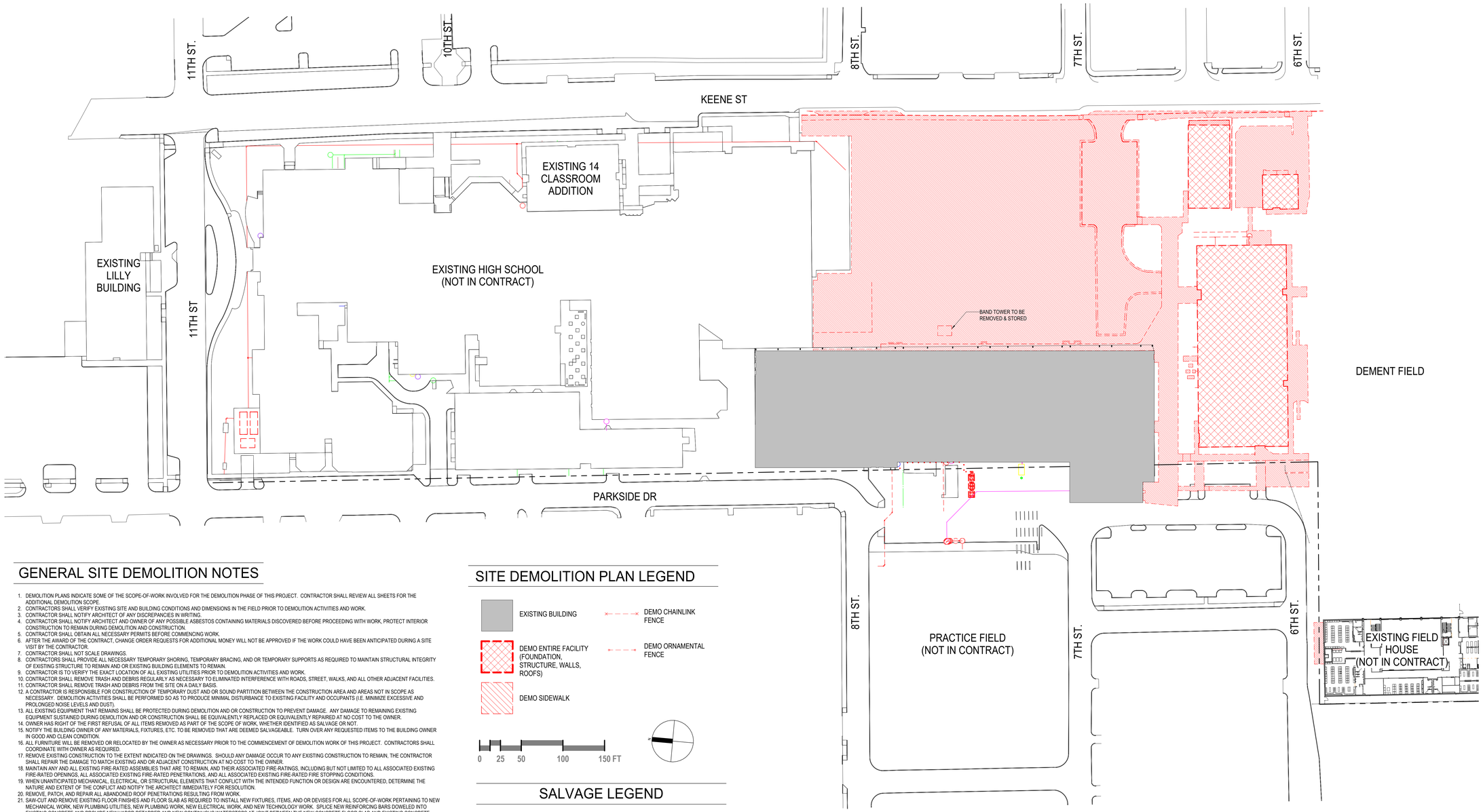
DEMOLITION SITE PLAN
ASD-101
FOR BLUEBEAM LABELING/DOOR:

0"
1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE , PRIOR TO ANY WORK TAKING PLACE. GENERAL CONTRACTOR SHALL PROTECT, PRESERVE AND CLEAN ALL EXISTING CONDITIONS AND SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE



GENERAL SITE DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR THE ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTORS SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER THE AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTORS SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. A CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN THE CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
14. OWNER HAS RIGHT OF THE FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
15. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
16. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK OF THIS PROJECT. CONTRACTORS SHALL COORDINATE WITH OWNER AS REQUIRED.
17. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
18. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRE STOPPING CONDITIONS.
19. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
20. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
21. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN THE NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
23. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
24. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, U.N.O.
25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
26. REFER TO MEPT DRAWINGS FOR THE DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
27. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
28. WHERE THE EXISTING FINISH FLOOR IS REMOVED, PREPARE THE FLOOR SURFACE TO RECEIVE A NEW FLOORING.
29. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.
30. GENERAL CONTRACTOR SHALL DEMO AND DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. GENERAL CONTRACTOR SHALL PROTECT, PRESERVE AND CLEAN ALL EXISTING CONDITIONS AND SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.
31. REPAIRING ANY DAMAGED FIREPROOFING. FIREPROOF RATING TO BE RESTORED TO MATCH EXISTING FIREPROOF RATING. RE: UL RATING SHEET.
32. G.C. TO VERIFY ALL WALLS NOTED AS DEMO WITH STRUCTURAL PLANS AND NOTES PRIOR TO DEMO.
33. G.C. TO COORDINATE DEMO OF WALLS WITH STRUCTURAL DEMO NOTES & REQUIREMENTS.

SITE DEMOLITION PLAN LEGEND

- EXISTING BUILDING
- DEMO ENTIRE FACILITY (FOUNDATION, STRUCTURE, WALLS, ROOFS)
- DEMO SIDEWALK
- DEMO CHAINLINK FENCE
- DEMO ORNAMENTAL FENCE

0 25 50 100 150 FT

SALVAGE LEGEND

1- EXISTING TOILET PARTITIONS
2- EXISTING LED LIGHT FIXTURES INCLUDING EMERGENCY LIGHTING
3- EXISTING SPEAKERS
4- EXISTING LIFE SAFETY ALARM DEVICES INCLUDING PULL STATIONS
5- EXISTING VISUAL AND SOUND DEVICES
6- EXISTING VAPE DETECTORS
7- EXISTING FLOOD MITIGATION GATES AT THE DOORS FACING THE TRACK. HARDWARE.
8- EXISTING BASEBALL NETTING
9- EXISTING EAST SIDE METAL PANELS AND AWNINGS
10- EXISTING COVERED WALKWAY CANOPY INCLUDING LIGHT FIXTURES
11- EXISTING PVC COATED CHAIN LINK FENCE
12- EXISTING SECURITY DEVICES
13- EXISTING HVAC EQUIPMENT AND REFRIGERANT

01 PKG 3B DEMOLITION SITE PLAN
1" = 50'-0"

Plot Stamp:
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOSKY
REGISTERED ARCHITECT
STATE OF TEXAS
25672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

DEMOLITION SITE PLAN

ASD-101

SITE PLAN - PHASE 3B
AS-111
FOR BLUEBEAM LABELING/DOOR:

0"
1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.PBR	PIPE BOLLARD, REMOVABLE

KEENE ST

02/AS-402

01/AS-402

01/AS-403

EXISTING PERFORMING ARTS CENTER

PROPOSED 3-STORY ACADEMICS & MULTIPURPOSE

PROPOSED 2-STORY GYMNASIUM BUILDING

EXISTING CTE & DINING COMMONS BUILDING

05 50 00.PBR

NEW CENTRAL PLANT (N.I.C.)

(E) GENERATOR PLATFORM, RE: MEP

(E) SAND / OIL INTERCEPTOR & SAMPLE WELL, RE: MEP

(E) FIRE LANE

EXISTING DUMPSTERS RELOCATED, OWNER PROVIDED

(E) PAD MOUNTED TRANSFORMER AND TAP BOX, RE: MEP

NEW LOCATION OF (E) FIRE PUMP HOUSE, RE: MEP

NEW LOCATIONS OF (E) STORAGE TANKS, RE: MEP

01 SITE PLAN
1" = 20'-0"

Plot Stamp:
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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

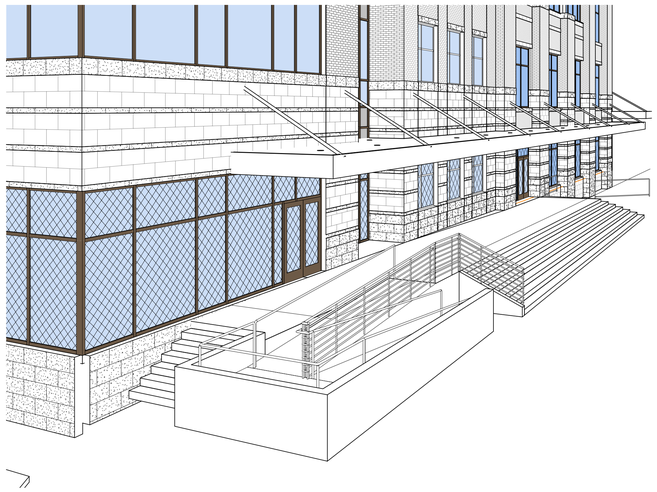
CHECKED BY: Checker
DRAWN BY: Author

SITE PLAN - PHASE 3B

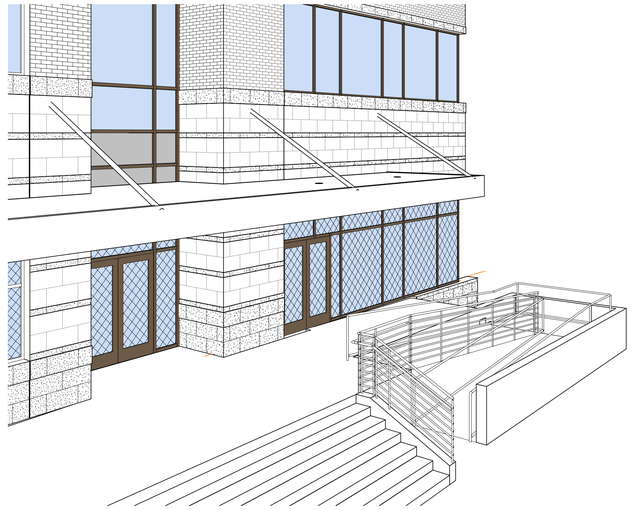
AS-111

ENLARGED SITE PLANS
AS-402
FOR BLUEBEAM LABELING/DOOR:

0"
1"



04 PERSEPECTIVE - ACADEMIC SOUTH RAMP / STEPS



03 PERSPECTIVE - ACADEMIC NORTH RAMP / STEPS

KEYNOTE LEGEND

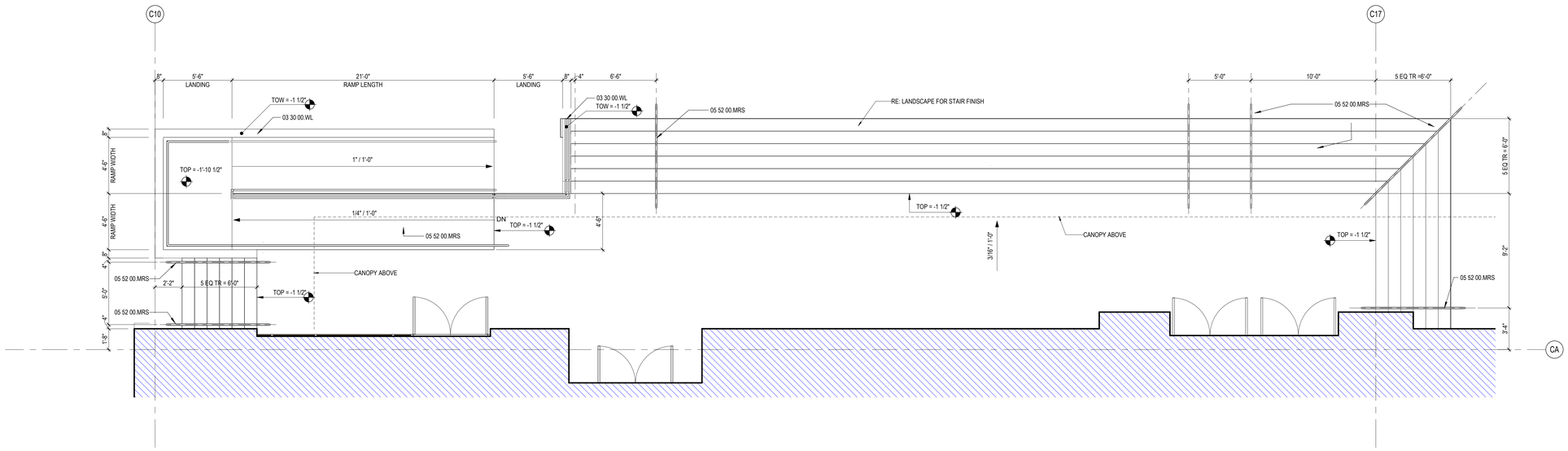
NUMBER	DESCRIPTION
03 30 00.WL	CAST-IN-PLACE CONCRETE WALL
05 52 00.MRS	STAINLESS STEEL RAILING SYSTEM

GENERAL SITE PLAN NOTES

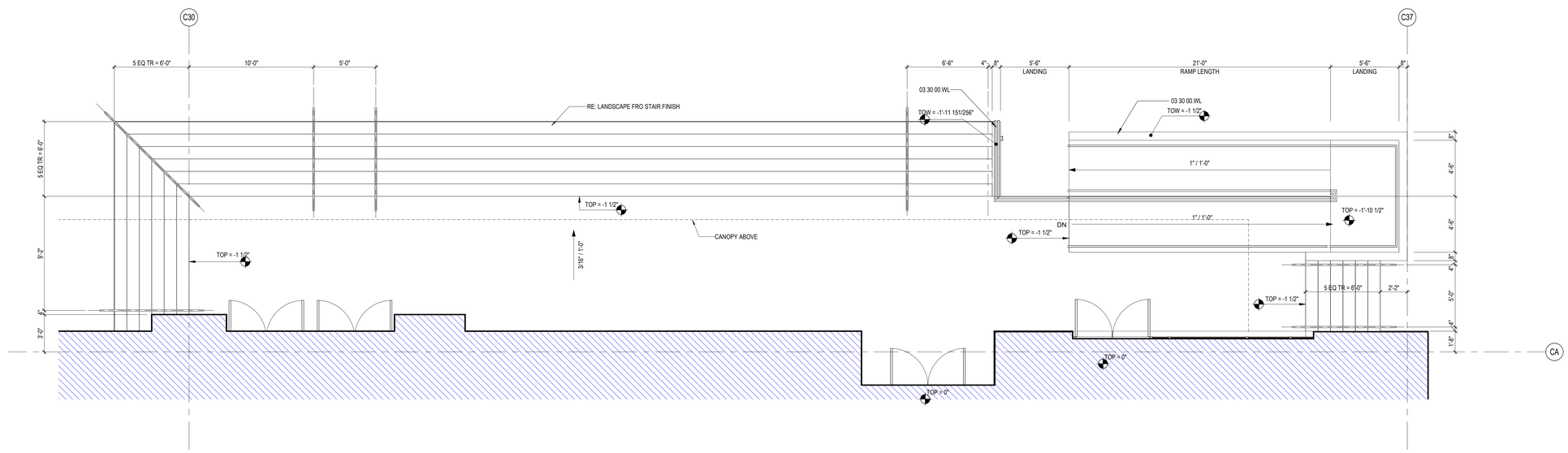
1. REFER TO CIVIL DOCUMENTS.
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

SITE PLAN LEGEND

- EXISTING BUILDING TO REMAIN (N.I.C.)
- PROPOSED BUILDING / ADDITION
- SOD OR PLANTING, SEE LANDSCAPE DRAWINGS
- CONCRETE SIDEWALK, SEE CIVIL / LANDSCAPE DRAWINGS
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- PROPERTY LINE
- EASEMENT LINE / SETBACK
- LOW — LIMIT OF WORK
- FIRE LANE



02 ENLARGED SITE PLAN - ACADEMIC NORTH RAMP / STEPS
1/4" = 1'-0"



01 ENLARGED SITE PLAN - ACADEMIC SOUTH RAMP / STEPS
1/4" = 1'-0"

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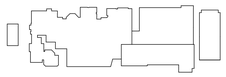
Galena Park ISD
EXCELLENCE FOR ALL KIDS ALL THE TIME



KEY PLAN
NORTH: PLAN = TRUE



CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

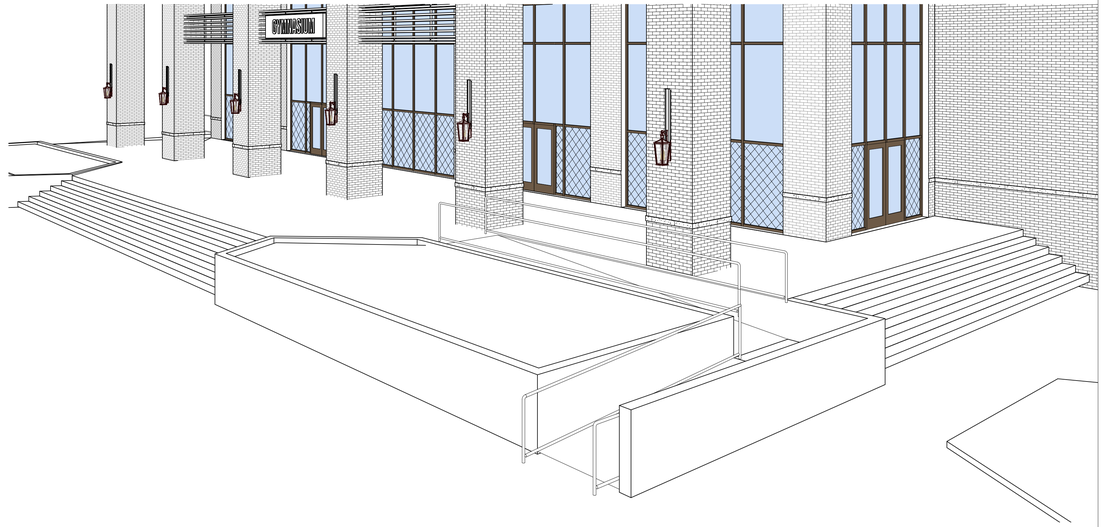
CHECKED BY: Checker
DRAWN BY: Author

ENLARGED SITE PLANS

AS-402

Plot Stamp:
12/5/2025 1:56:00 PM

ENLARGED SITE PLANS
AS-403
FOR BLUEBEAM LABELING/OCR:



2 PERSPECTIVE - ATHLETIC RAMP / STEPS

SITE PLAN LEGEND

- EXISTING BUILDING TO REMAIN (N.I.C.)
- PROPOSED BUILDING / ADDITION
- SOD OR PLANTING, SEE LANDSCAPE DRAWINGS
- CONCRETE SIDEWALK, SEE CIVIL / LANDSCAPE DRAWINGS
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- PROPERTY LINE
- EASEMENT LINE / SETBACK
- LOW — LIMIT OF WORK
- FIRE LANE

GENERAL SITE PLAN NOTES

1. REFER TO CIVIL DOCUMENTS.
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
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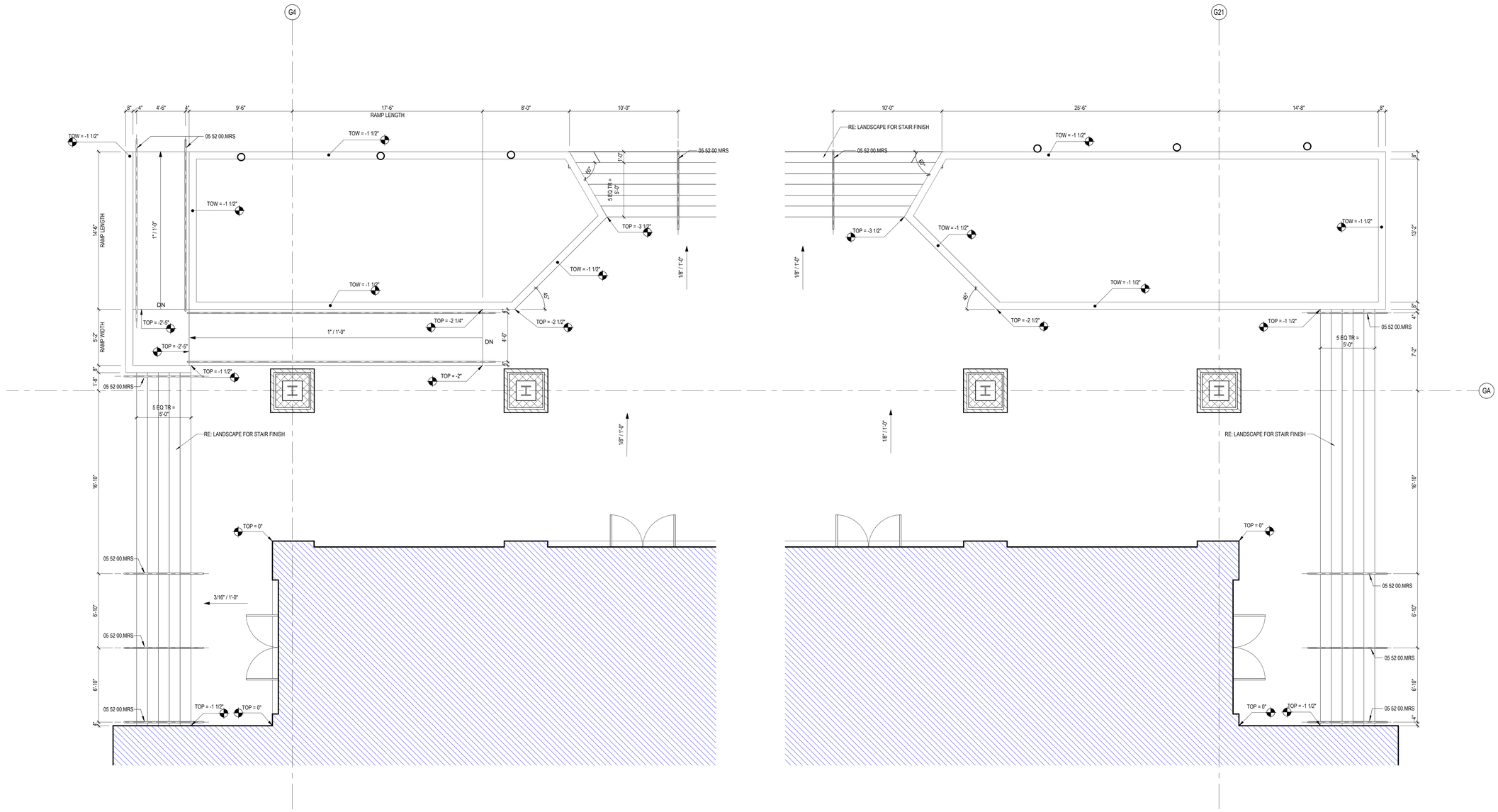
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.MRS	STAINLESS STEEL RAILING SYSTEM



01 ENLARGED SITE PLAN - ATHLETIC SOUTH RAMP / STEPS
1/4" = 1'-0"

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Galena Park, TX 77547

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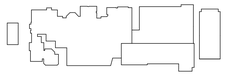


KEY PLAN
NORTH: PLAN TRUE



CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

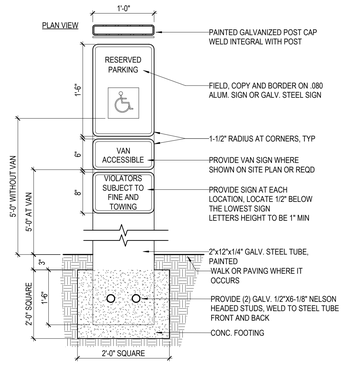
ENLARGED SITE PLANS

AS-403

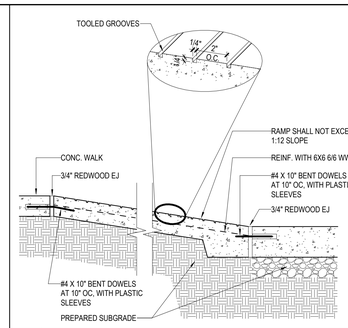
Plot Stamp:
12/5/2025 1:56:07 PM

SITE DETAILS
AS-711
FOR BLUEBEAM LABELINGDOOR:

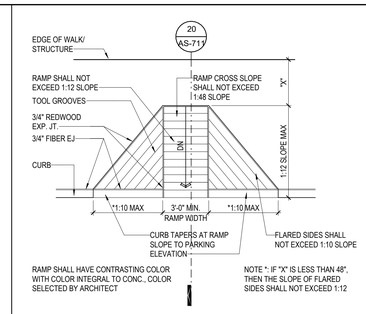
0"
1"



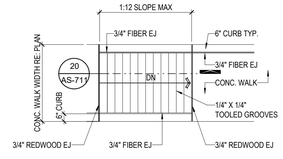
15 ACCESSIBLE PARKING SIGN
1" = 1'-0"



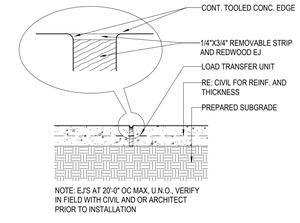
20 ACCESSIBLE CURB RAMP SECTION
1" = 1'-0"



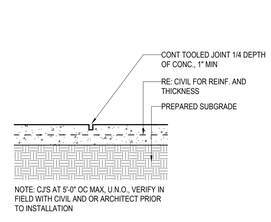
19 ACCESSIBILITY CURB RAMP
1/4" = 1'-0"



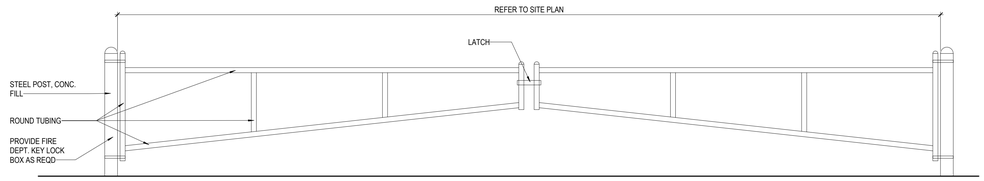
18 ACCESSIBLE RAMP PLAN
1/4" = 1'-0"



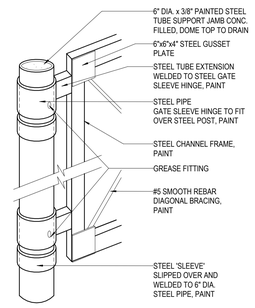
17 CONCRETE WALK EJ
1" = 1'-0"



16 CONCRETE WALK CJ
1" = 1'-0"



14 VEHICULAR GATE
1/2" = 1'-0"

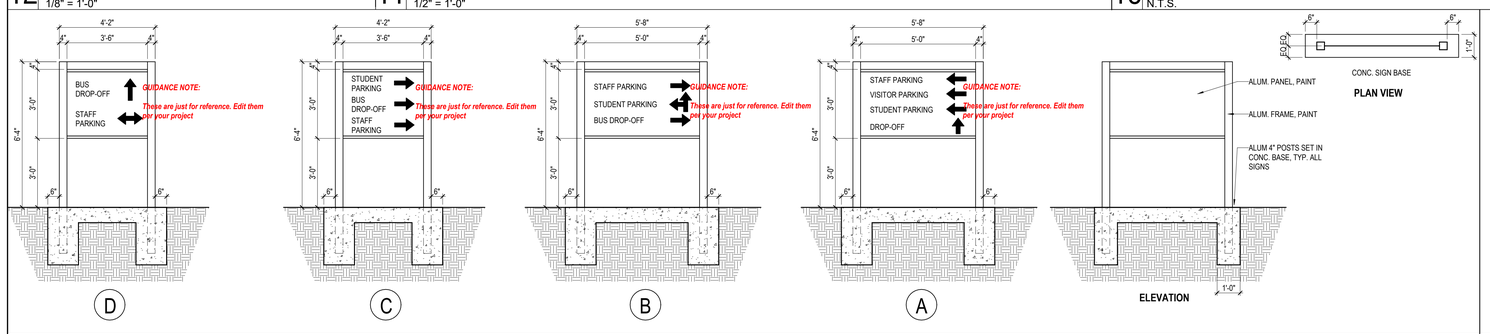


13 GATE HINGE DETAIL
1 1/2" = 1'-0"

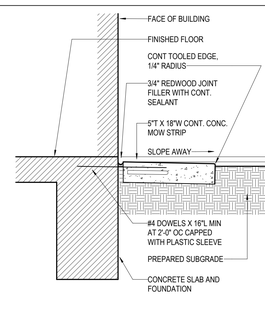
12 ACCESSIBLE PARKING
1/8" = 1'-0"

11 DUMPSTER ENCLOSURE FRONT ELEVATION
1/2" = 1'-0"

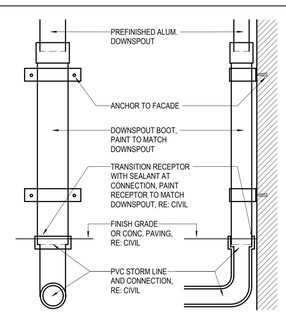
10 ROLLING GATE
N.T.S.



08 SITE DIRECTIONAL SIGNAGE 01
3/8" = 1'-0"



07 MOW STRIP AT EDGE OF BUILDING
1" = 1'-0"



06 DOWNSPOUT BOOT
1" = 1'-0"

05 BOLLARD - REMOVABLE
1/2" = 1'-0"

04 BOLLARD
1/2" = 1'-0"

03 FLAGPOLE BASE
1/2" = 1'-0"

02 LIGHT POLE BASE
3/4" = 1'-0"

01 FENCE DETAIL
1/2" = 1'-0"

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12/5/2025 1:56:22 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25573
STATE OF TEXAS

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

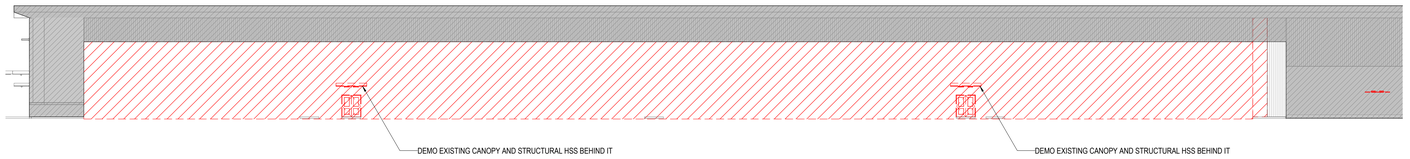
CHECKED BY: Checker
DRAWN BY: Author

SITE DETAILS

AS-711

0"
1"

LEVEL 1 - DEMOLITION FLOOR PLAN
AD101
FOR BLUEBEAM LABELING/OCR:



2 DEMO ELEVATION
1" = 20'-0"



1 LEVEL 1 - OVERALL DEMOLITION FLOOR PLAN
1" = 20'-0"

GENERAL ARCH DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
14. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
15. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
16. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
17. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
18. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRE STOPPING CONDITIONS.
19. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
20. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
21. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
23. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
24. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, U.N.O.
25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
26. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
27. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
28. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
29. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMOLITION PLAN LEGEND

EXISTING BUILDING
DEMO DOOR
DEMO EXTERIOR WALL
DEMO WALL

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
STATE OF TEXAS
25577

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

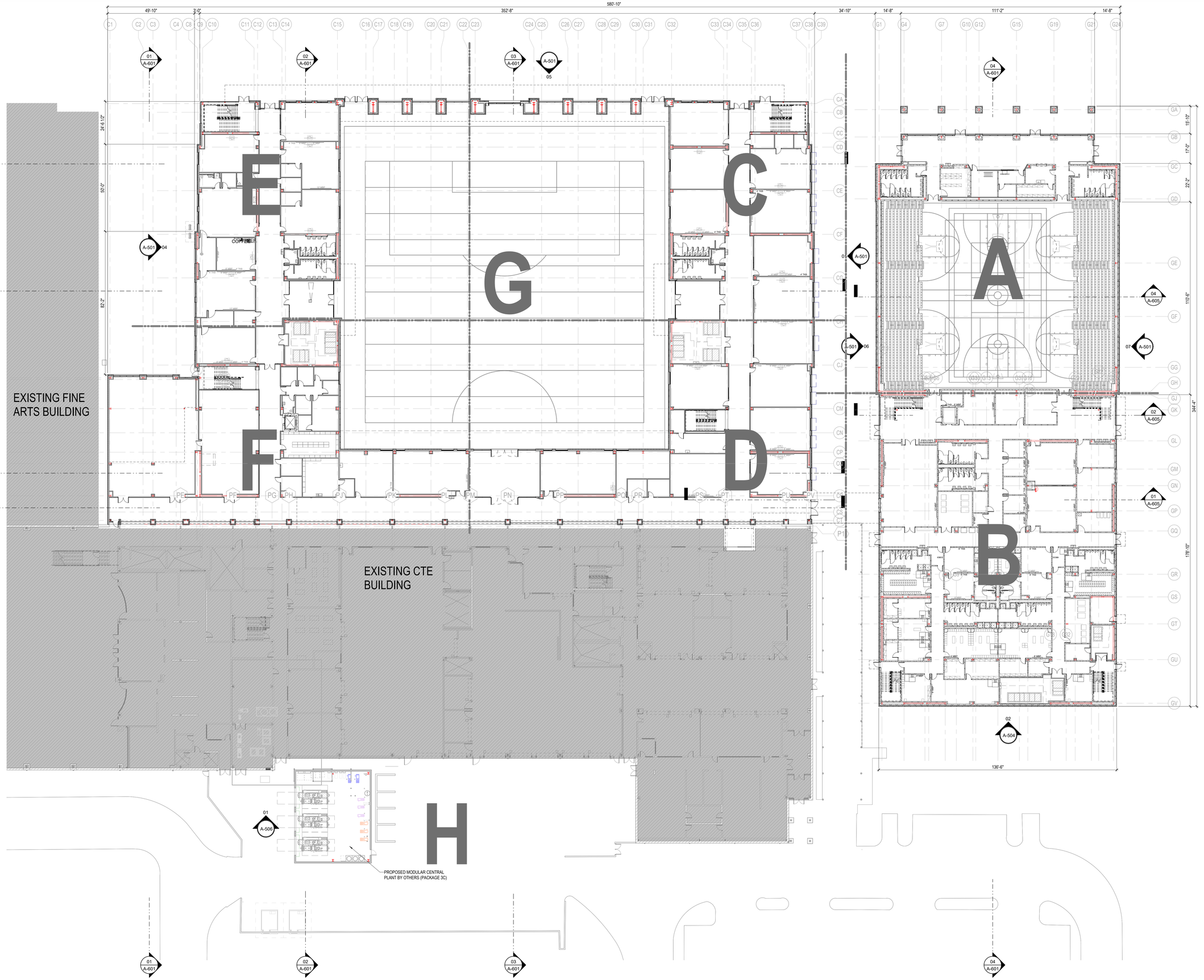
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - DEMOLITION FLOOR PLAN

AD101

Plot Stamp:
12/5/2025 3:15:57 PM

LEVEL 1 - OVERALL FLOOR PLAN
A-101
FOR BLUEBEAM LABELING/OCR:



01 LEVEL 1 - OVERALL FLOOR PLAN
1" = 20'-0"

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

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KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

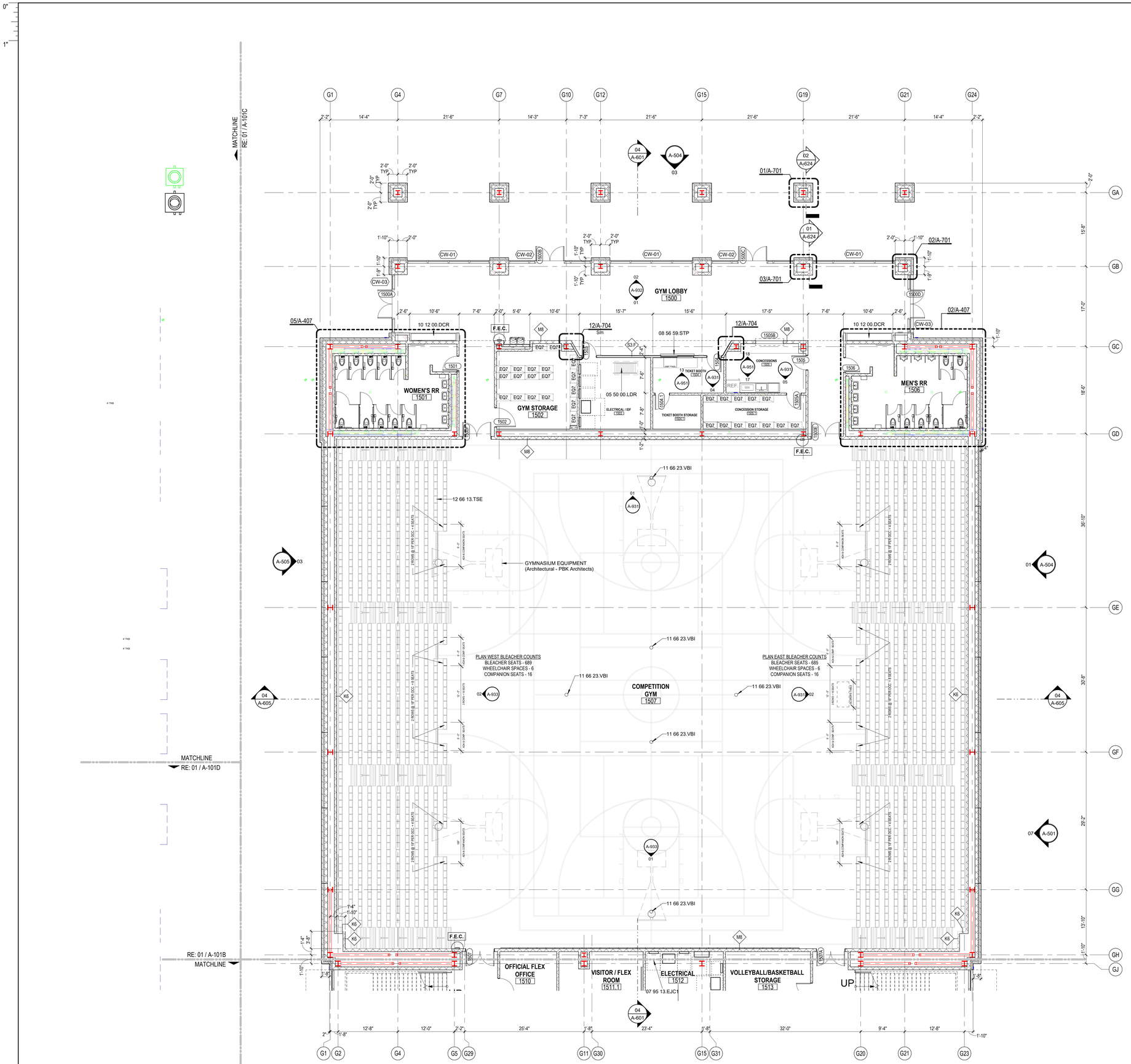
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - OVERALL FLOOR PLAN

A-101

Plot Stamp:
12/5/2025 2:59:07 PM

LEVEL 1 - AREA A FLOOR PLAN
A-101A
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 1 - AREA A NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.LDR	STEEL LADDER
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER
08 56 59.STP	SERVICE/TELLER WINDOW UNIT W/ PASS-THROUGH DEVICE
10 12 00.DCR	RECESSED DISPLAY CASE
11 66 23	GYMNASIUM EQUIPMENT (Architectural - PBK Architects)
11 66 23.VBI	VOLLEYBALL FLOOR INSERT
12 66 13.TSE	TELESCOPING BLEACHER, ELECTRICALLY-OPERATED

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ4	Metal Shelving - 5 Shelves - 36" W x 18" D x 7'-2" H	U-Line	Chrome Wire Shelving/H-2940-54	CFCI	50
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 5'-5" H	U-Line	Chrome Wire Shelving/H-2940-54	CFCI	91
LR1	Gas Dryer - 55 lbs Capacity	HUEBSCH	HT075NMB1G1W03	CFCI	6
LR2	Front Load Washer - 40 lbs Capacity	CONTINENTAL	L105OSR21010	CFCI	6

FLOOR PLAN LEGEND

- **10 65 13.4PSSM** METAL SHELVING, 72" H — SHELF LENGTH, SHELF WIDTH
- **10 11 00.MBP** PORCELAIN-ENAMEL MARKERBOARD — LENGTH
- **10 11 00.TKB** TACKBOARD — LENGTH
- CR — CARD READER, REFER TO TECHNOLOGY
- OP — LV AUTOMATIC OPERATOR, REFER TO TECHNOLOGY
- F.E.C. — **10 44 00.FE#** FIRE EXTINGUISHER CABINET
- A.E.D. — **10 43 00.AED** AUTOMATED EXTERNAL DEFIBRILLATOR
- **10 51 26.LBC** LOCKER ROOM BENCH 18" X 48"
- **10 51 26.LBA** ADA BENCH LEFT CLEAENCE 42" X 20"

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA A FLOOR PLAN

A-101A

Plot Stamp:
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LEVEL 1 - AREA B FLOOR PLAN
A-101B
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 1 - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-600 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
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15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
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20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.BNC	CUSTOM BENCH
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER
10 22 39.FPH	HORIZONTAL-OPENING FOLDING PANEL PARTITION
10 51 26.LBA	LOCKER BENCH, ACCESSIBLE, 20"D X 42"W
10 51 26.LBC	LOCKER BENCH, 18"D X 48"W
11 46 83.ICE1	ICE MACHINE
11 66 23.VBI	VOLLEYBALL FLOOR INSERT
11 90 00.VDC	COMBINATION VENDING MACHINE (OFOI)
22 40 00.DF	

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ4	Metal Shelving - 5 Shelves - 36" W x 18" D x 7'-2" H	U-Line	Chrome Wire Shelving/H-2940-54	CFCI	50
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 5'-5" H	U-Line	Chrome Wire Shelving/H-2940-54	CFCI	91
LR1	Gas Dryer - 55 lbs Capacity	HUEBSCH	HT07SNMB1G1W03	CFCI	6
LR2	Front Load Washer - 40 lbs Capacity	CONTINENTAL	L105OSR21010	CFCI	6

LOCKER SCHEDULE

Type Mark	Description	Count
A	ATHLETICS LOCKER - SINGLE TIER, PAD LOCK - 15" W x 18" D x 6'-0" H	154
B	ATHLETICS LOCKER - DOUBLE TIERS, PAD LOCK - 15" W x 18" D x 6'-0" H	121
C	ATHLETICS LOCKER - TRIPLE TIERS, PAD LOCK - 15" W x 18" D x 6'-5" H	120
D	ATHLETICS LOCKER - COACH - 18" W x 21" D x 6'-0" H	14

FLOOR PLAN LEGEND

- **10 65 13.4PSSM** METAL SHELVING, 72" H — SHELF LENGTH, SHELF WIDTH
- **10 11 00.MBP** PORCELAIN-ENAMEL MARKERBOARD — LENGTH
- **10 11 00.TKB** TACKBOARD — LENGTH
- CR — CARD READER, REFER TO TECHNOLOGY
- OP — LV AUTOMATIC OPERATOR, REFER TO TECHNOLOGY
- F.E.C. — **10 44 00.FE#** FIRE EXTINGUISHER CABINET
- A.E.D. — **10 43 00.AED** AUTOMATED EXTERNAL DEFIBRILLATOR
- **10 51 26.LBC** LOCKER ROOM BENCH 18" X 48"
- **10 51 26.LBA** ADA BENCH LEFT CLEAENCE 42" X 20"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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Galena Park ISD

KEY PLAN — NORTH: PLAN / TRUE

IAN LEPICOVSKY — REGISTERED ARCHITECT — 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA B FLOOR PLAN

A-101B

Plot Stamp:
12/5/2025 2:59:20 PM

0"
1"

LEVEL 1 - AREA C FLOOR PLAN
A-101C
FOR BLUEBEAM LABELING/DOCR:

GENERAL ARCH PLAN NOTES

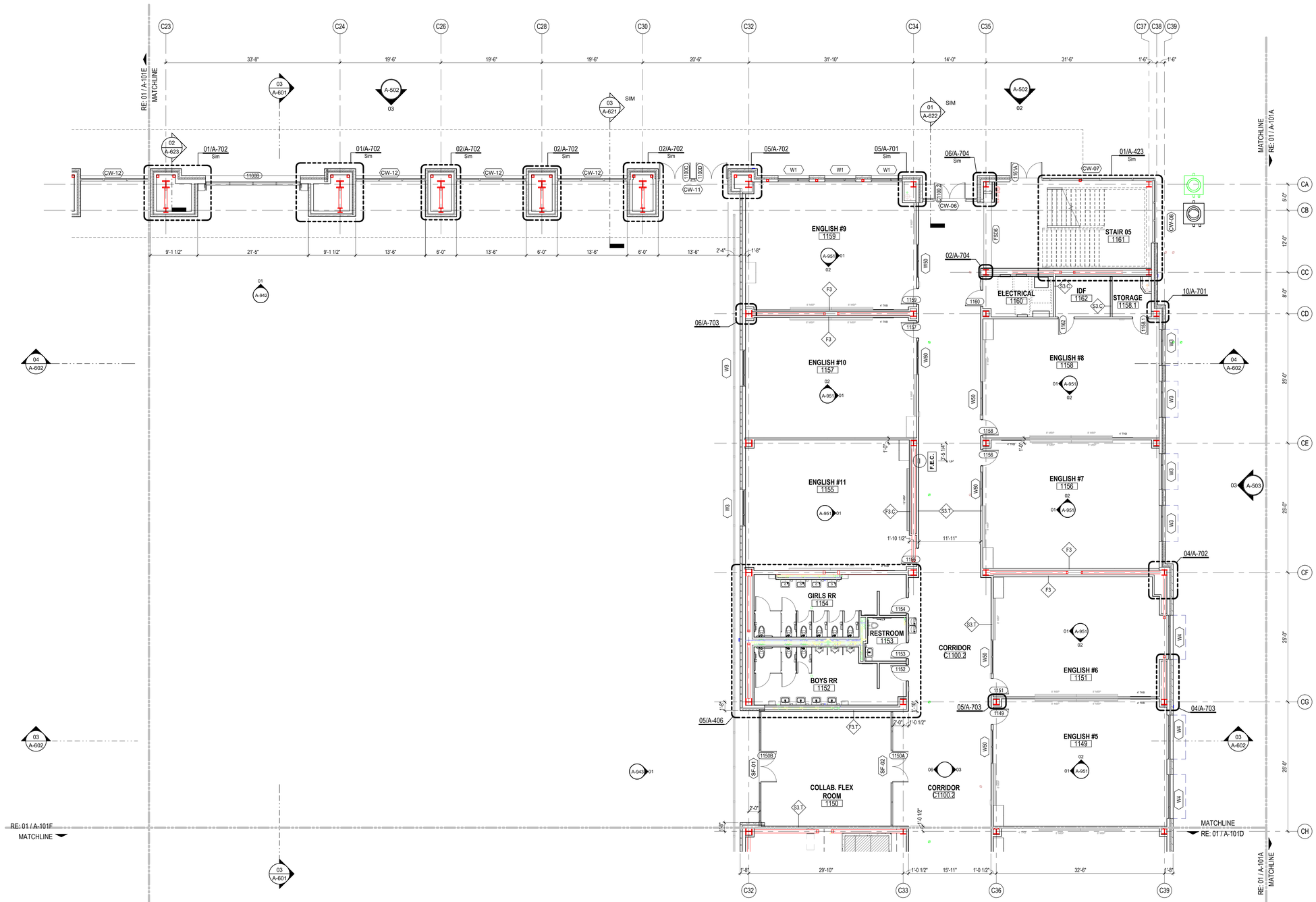
1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

FLOOR PLAN LEGEND

- **10 65 13.4PSSM** METAL SHELVING, 72" H — SHELF LENGTH / SHELF WIDTH
- **10 11 00.MBP** PORCELAIN-ENAMEL MARKERBOARD — LENGTH
- **10 11 00.TKB** TACKBOARD — LENGTH
- CR — CARD READER, REFER TO TECHNOLOGY
- OP — LV AUTOMATIC OPERATOR, REFER TO TECHNOLOGY
- **F.E.C.** **10 44 00.FE#** FIRE EXTINGUISHER CABINET
- **A.E.D.** **10 43 00.AED** AUTOMATED EXTERNAL DEFIBRILLATOR
- **10 51 26.LBC** LOCKER ROOM BENCH 18" X 48"
- **10 51 26.LBA** ADA BENCH LEFT CLEAENCE 42" X 20"

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 1 - AREA C FLOOR PLAN
1/8" = 1'-0"

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12/5/2025 2:59:24 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA C FLOOR PLAN

A-101C

LEVEL 1 - AREA D FLOOR PLAN
A-101D
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER



01 LEVEL 1 - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
STEVEN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA D FLOOR PLAN

A-101D

Plot Stamp:
12/5/2025 2:59:27 PM

LEVEL 1 - AREA E FLOOR PLAN
A-101E
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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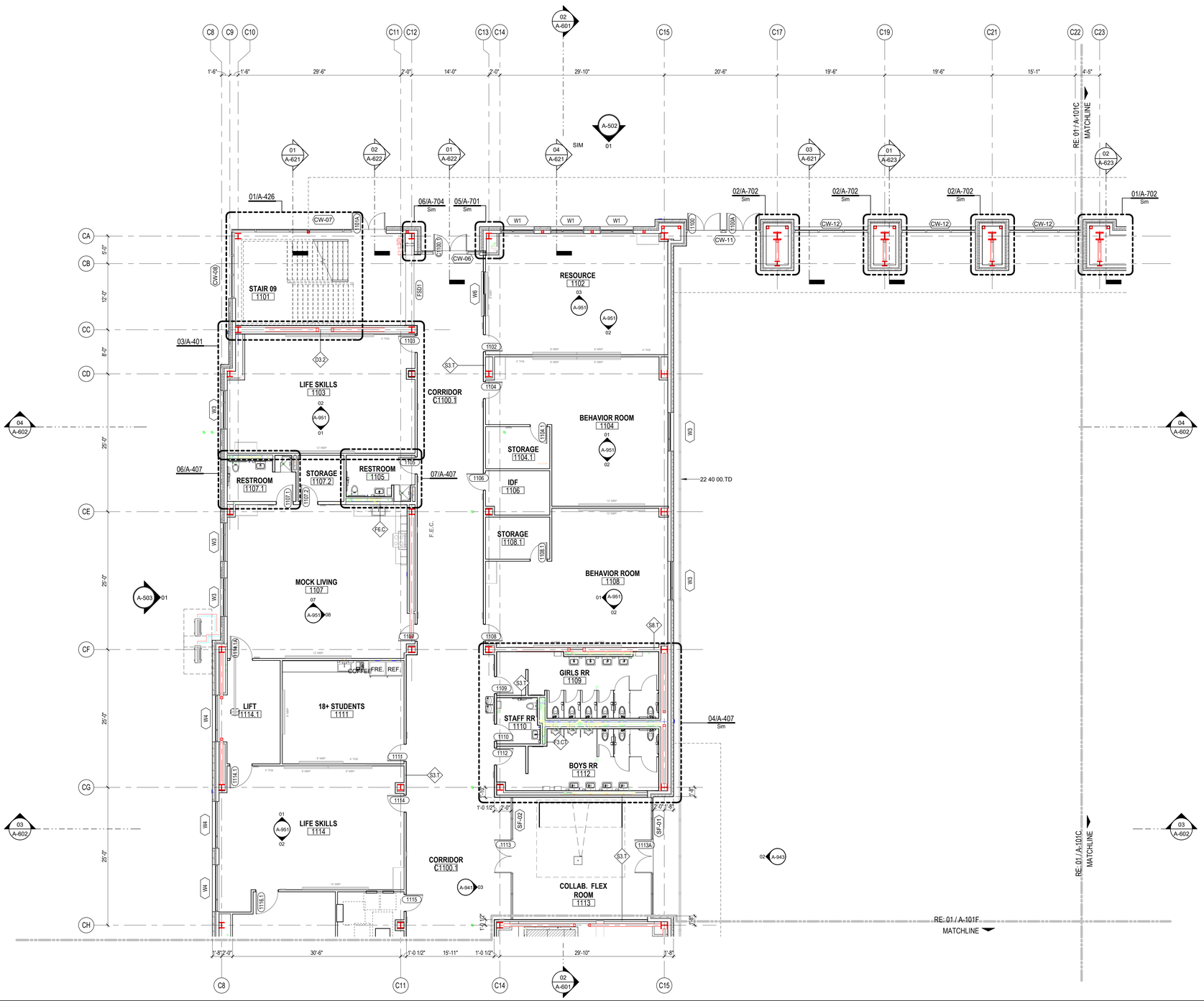
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
22 40 00.TD	TRENCH DRAIN, REFER TO PLUMBING



01 LEVEL 1 - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 2:59:30 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

LISA REGISTERED ARCHITECT LEPICOVSKY JAN 25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA E FLOOR PLAN

A-101E

0"
1"

LEVEL 1 - AREA F FLOOR PLAN
A-101F
FOR BLUEBEAM LABELING/OCR:

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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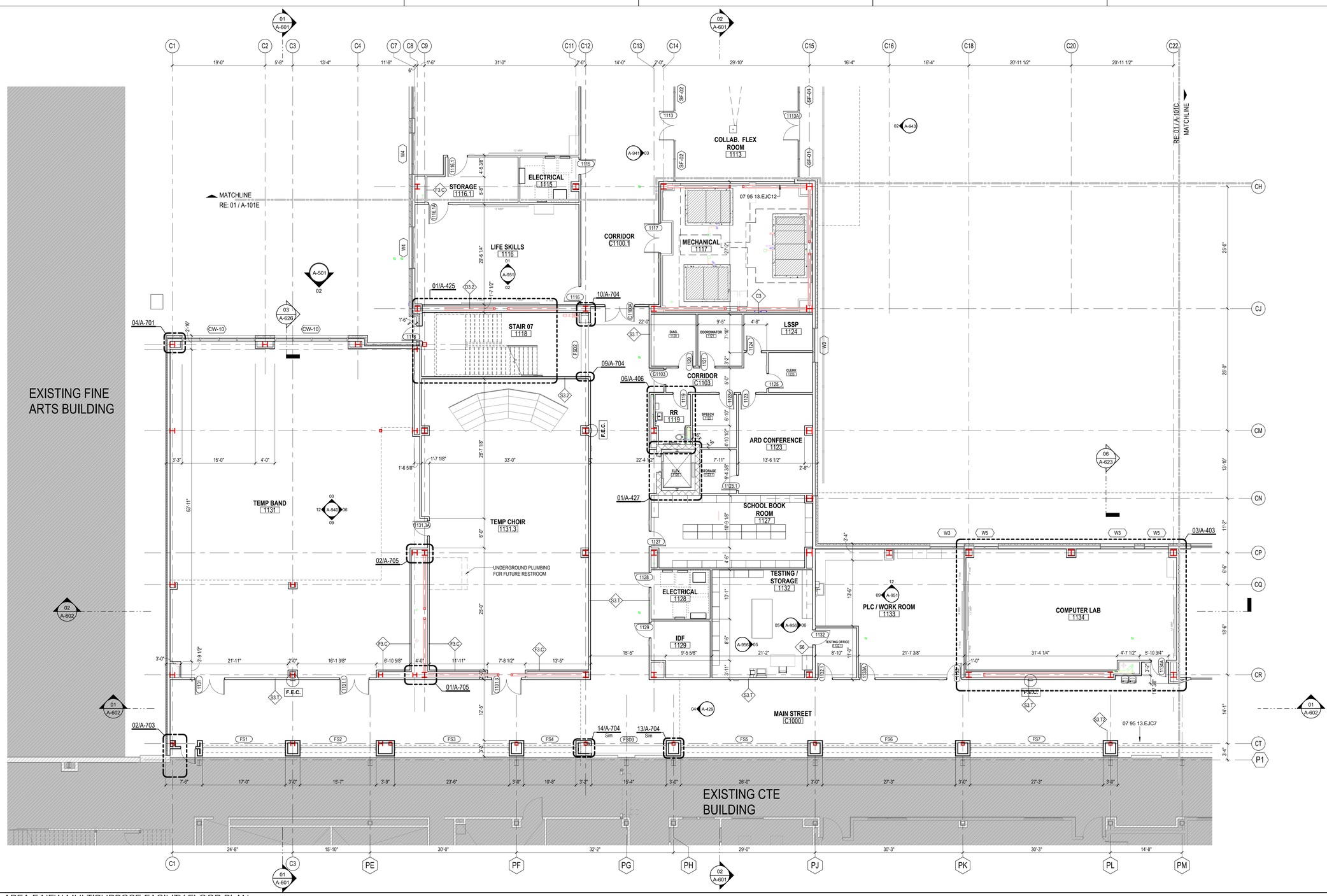
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C. U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
07 95 13.EJC12	EXTERIOR, ROOF EXPANSION JOINT COVER



01 LEVEL 1 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 2:59:31 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

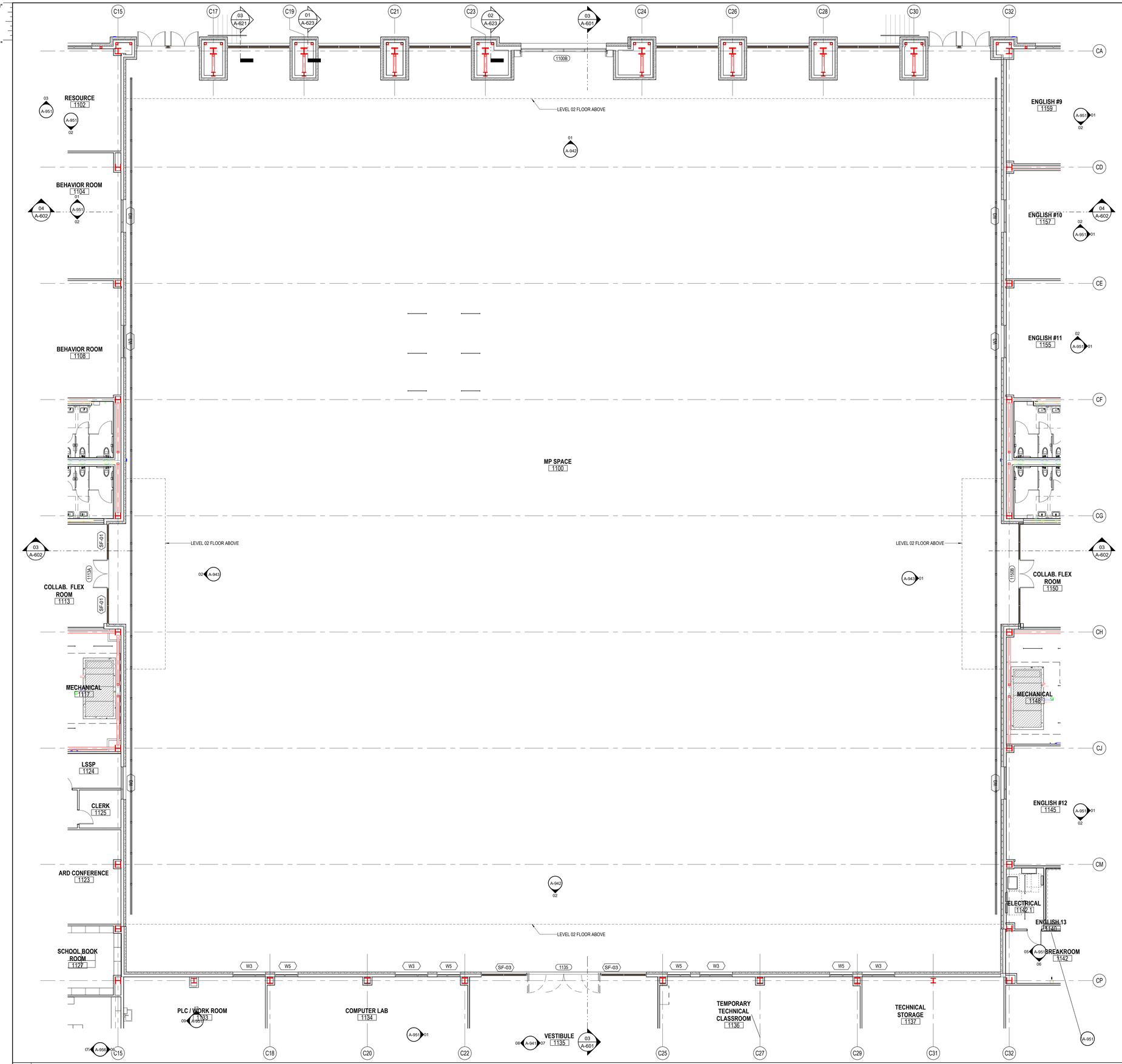
No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA F FLOOR PLAN

A-101F

LEVEL 1 - AREA G FLOOR PLAN
A-101G
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 1 - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

G

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
STATE OF TEXAS
25577

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA G FLOOR PLAN

A-101G

Plot Stamp:
12/5/2025 2:59:35 PM

0"
1"

LEVEL 1 - AREA H - MECHANICAL YARD PLAN
A-101H
FOR BLUEBEAM LABELING/DOCR:

GENERAL ARCH PLAN NOTES

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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 1 - MECHANICAL YARD FLOOR PLAN
1/8" = 1'-0"

PBK
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HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA H - MECHANICAL YARD PLAN

A-101H

Plot Stamp:
12/5/2025 2:59:38 PM

LEVEL 2 - OVERALL FLOOR PLAN
A-102
FOR BLUEBEAM LABELING/OCR:

0"
1"

EXISTING FINE ARTS BUILDING

EXISTING CTE BUILDING

E F G C D A B H

OPEN TO BELOW

LADDER

01 A-602 · 02 A-602 · 03 A-602 · 04 A-602 · A-501 04 · A-501 05 · A-501 06 · A-501 07 · 01 A-601 · 02 A-601 · 03 A-601 · 04 A-601 · 01 A-605 · 02 A-605 · 04 A-605 · 01 A-506 · 02 A-504

01 LEVEL 2 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

Plot Stamp:
12/5/2025 2:59:47 PM

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25577
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

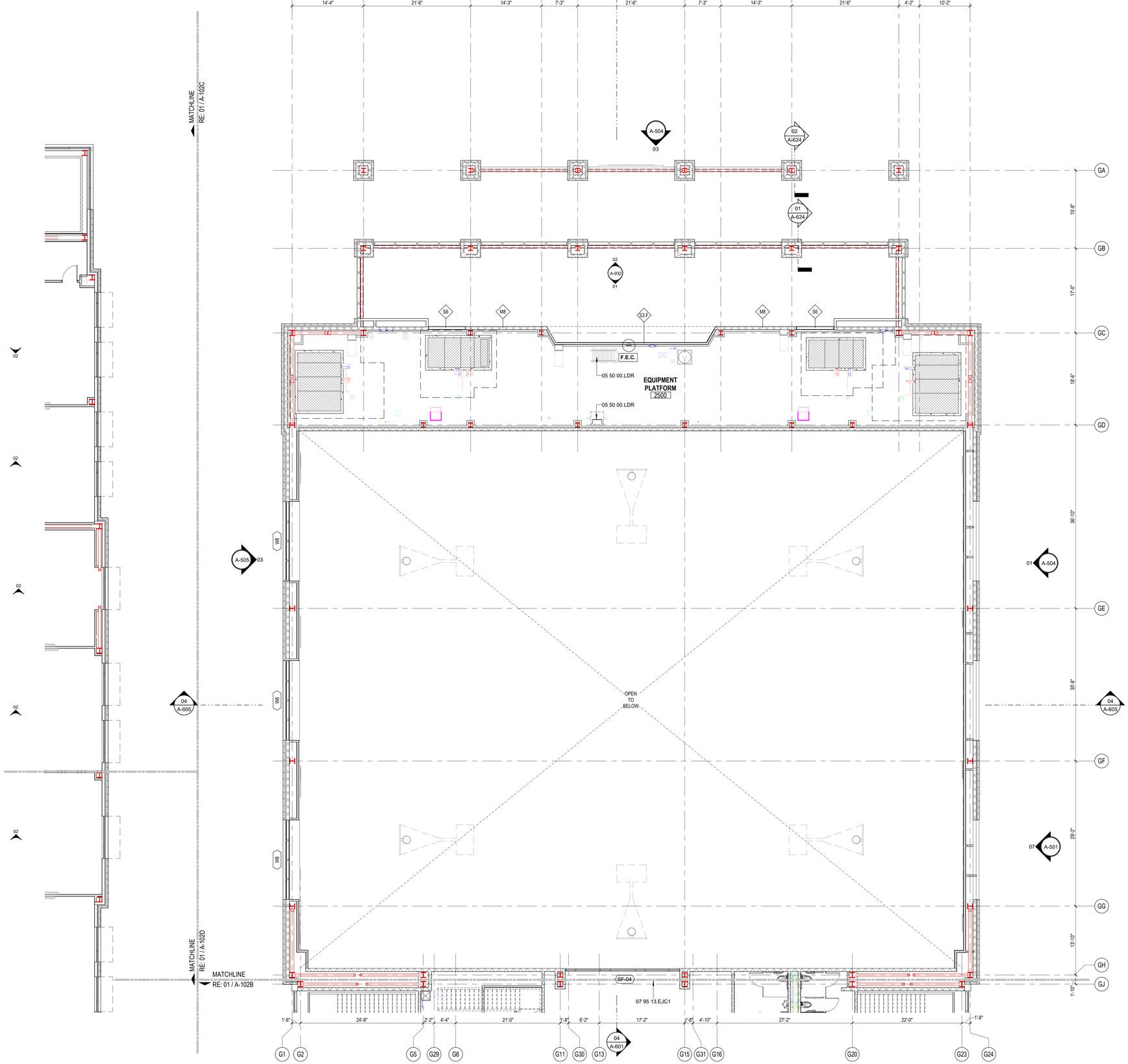
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - OVERALL FLOOR PLAN

A-102

0"
1"

LEVEL 2 - AREA A FLOOR PLAN
A-102A
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 2 - AREA A NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
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15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.LDR	STEEL LADDER
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

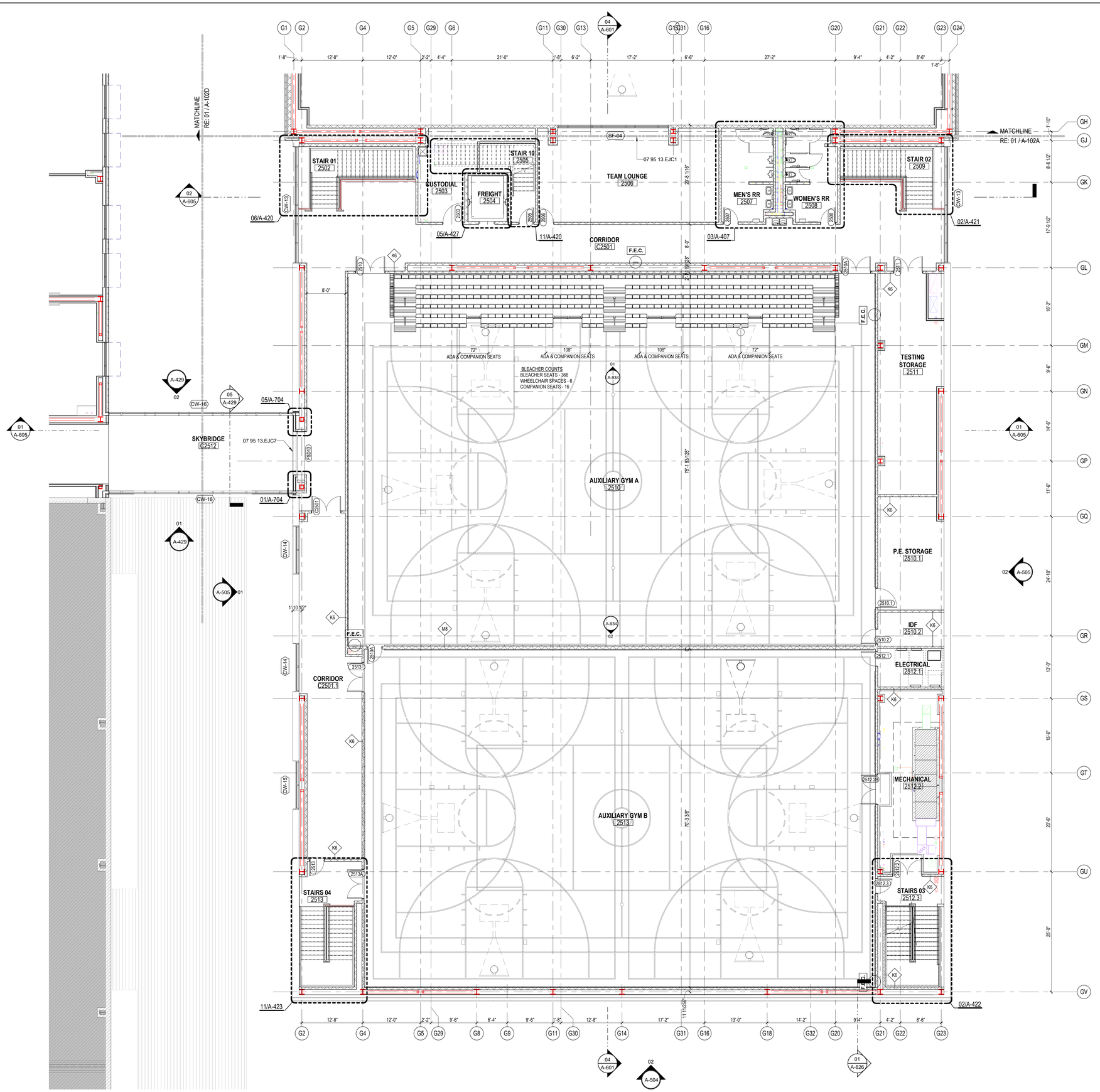
LEVEL 2 - AREA A FLOOR PLAN

A-102A

Plot Stamp:
12/5/2025 2:59:49 PM

0"
1"

LEVEL 2 - AREA B FLOOR PLAN
A-102B
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 2 - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER

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713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN ≠ TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA B FLOOR PLAN

A-102B

Plot Stamp:
12/5/2025 2:59:53 PM

LEVEL 2 - AREA C FLOOR PLAN
A-102C
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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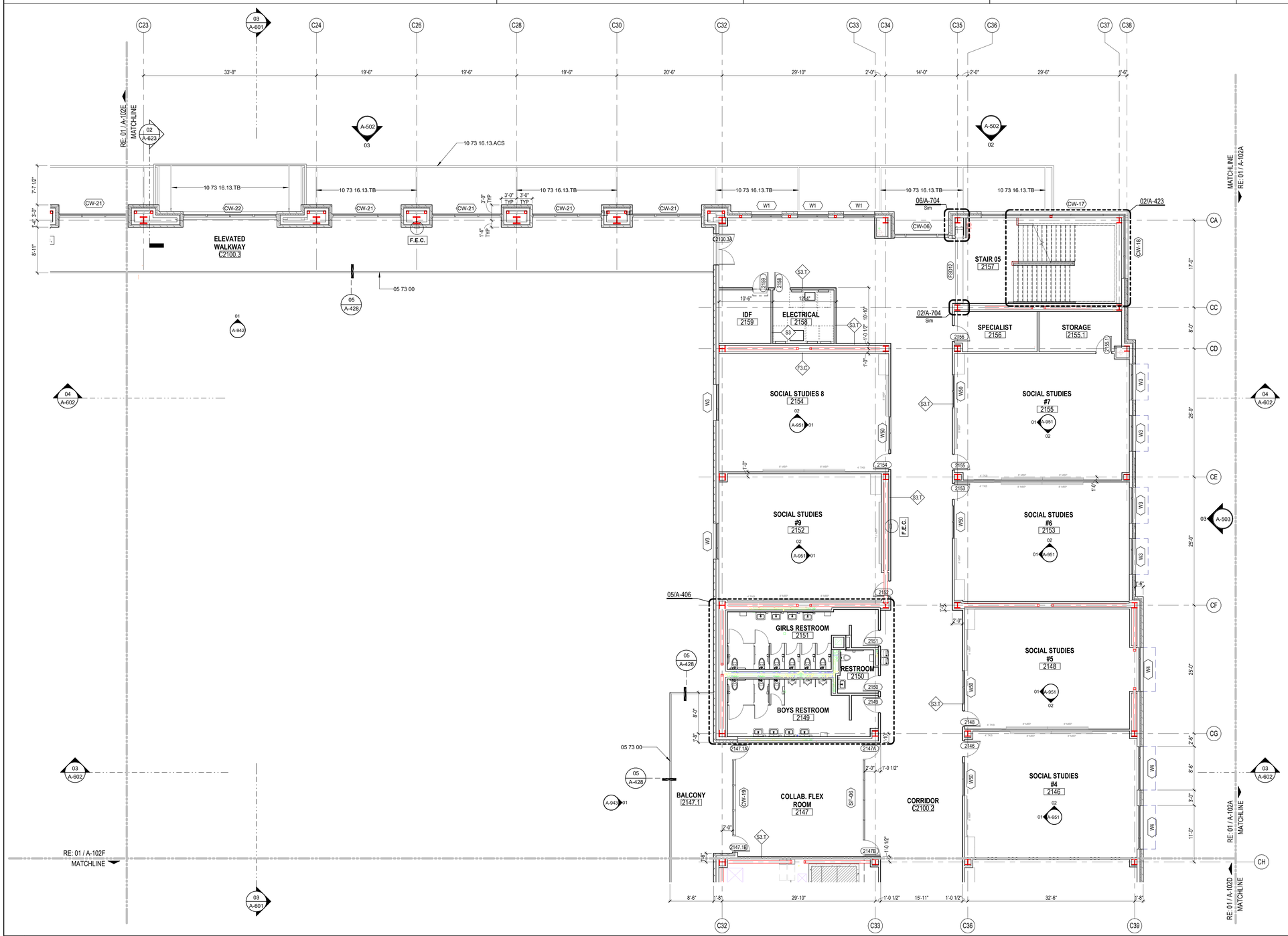
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-600 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 73 00	DECORATIVE METAL RAILINGS (Architectural - PBK Architects)
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
10 73 16.13.TB	CANOPY TIE BACK, COORD. W/ STRUCT.



01 LEVEL 2 - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 2:59:57 PM

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JAN LEPICOVSKY
25572
REGISTERED ARCHITECT

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA C FLOOR PLAN

A-102C

LEVEL 2 - AREA D FLOOR PLAN
A-102D
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
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KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER



01 LEVEL 2 - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D FLOOR PLAN

A-102D

Plot Stamp:
12/5/2025 3:00:01 PM

LEVEL 2 - AREA E FLOOR PLAN
A-102E
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

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19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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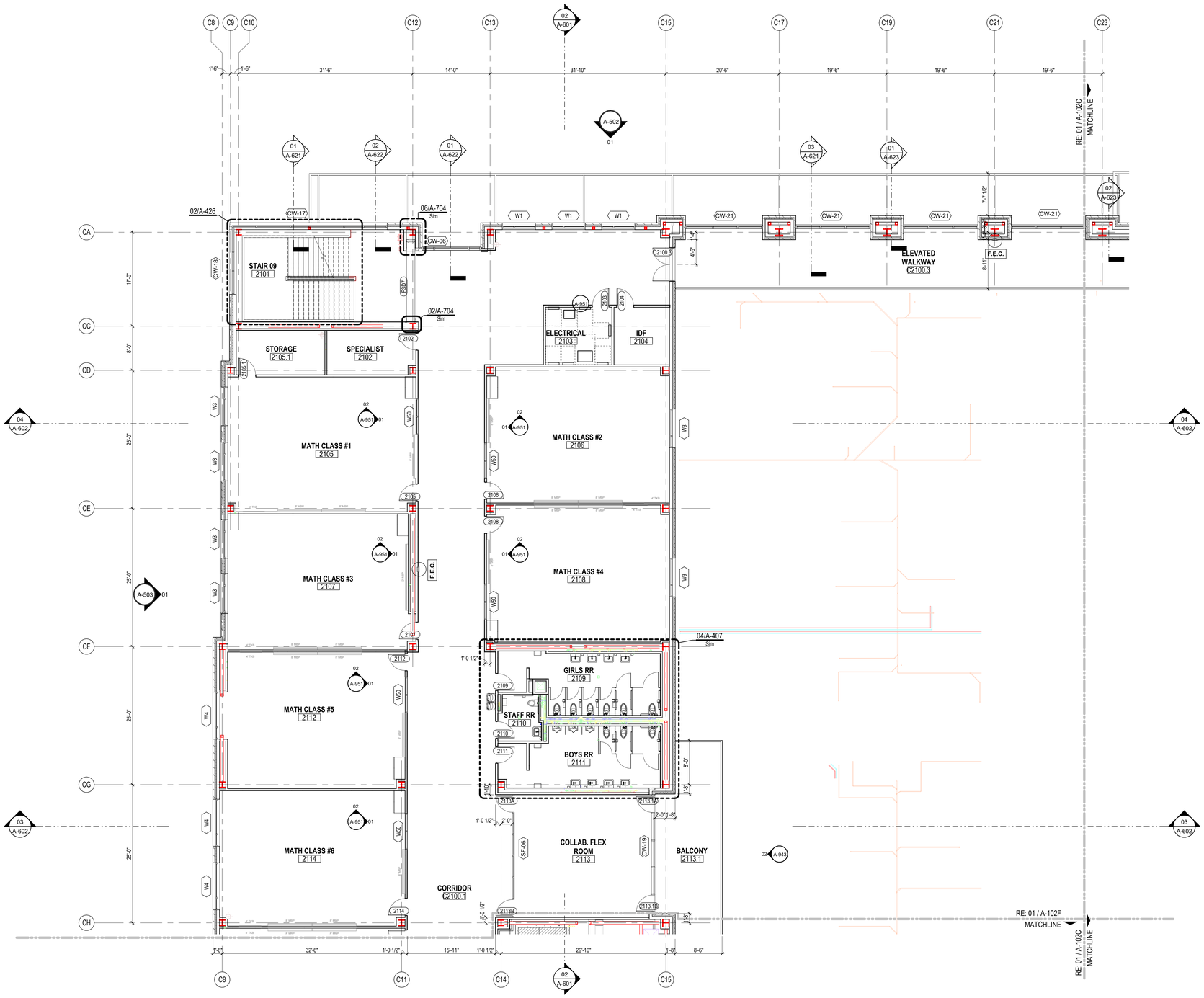
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 2 - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:00:04 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA E
FLOOR PLAN

A-102E

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-600 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C. U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
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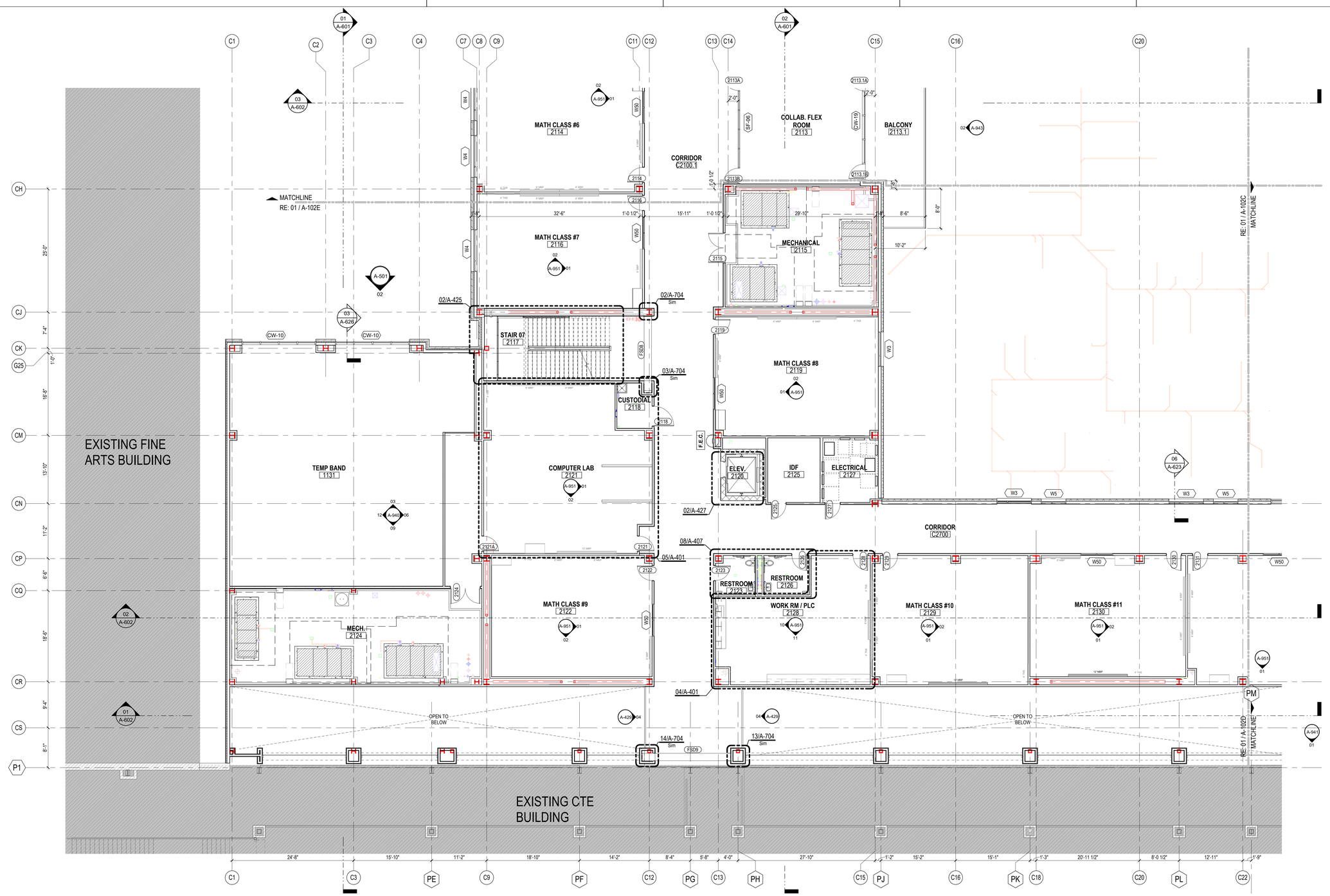
KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 2 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JOHN EPICOSKY
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

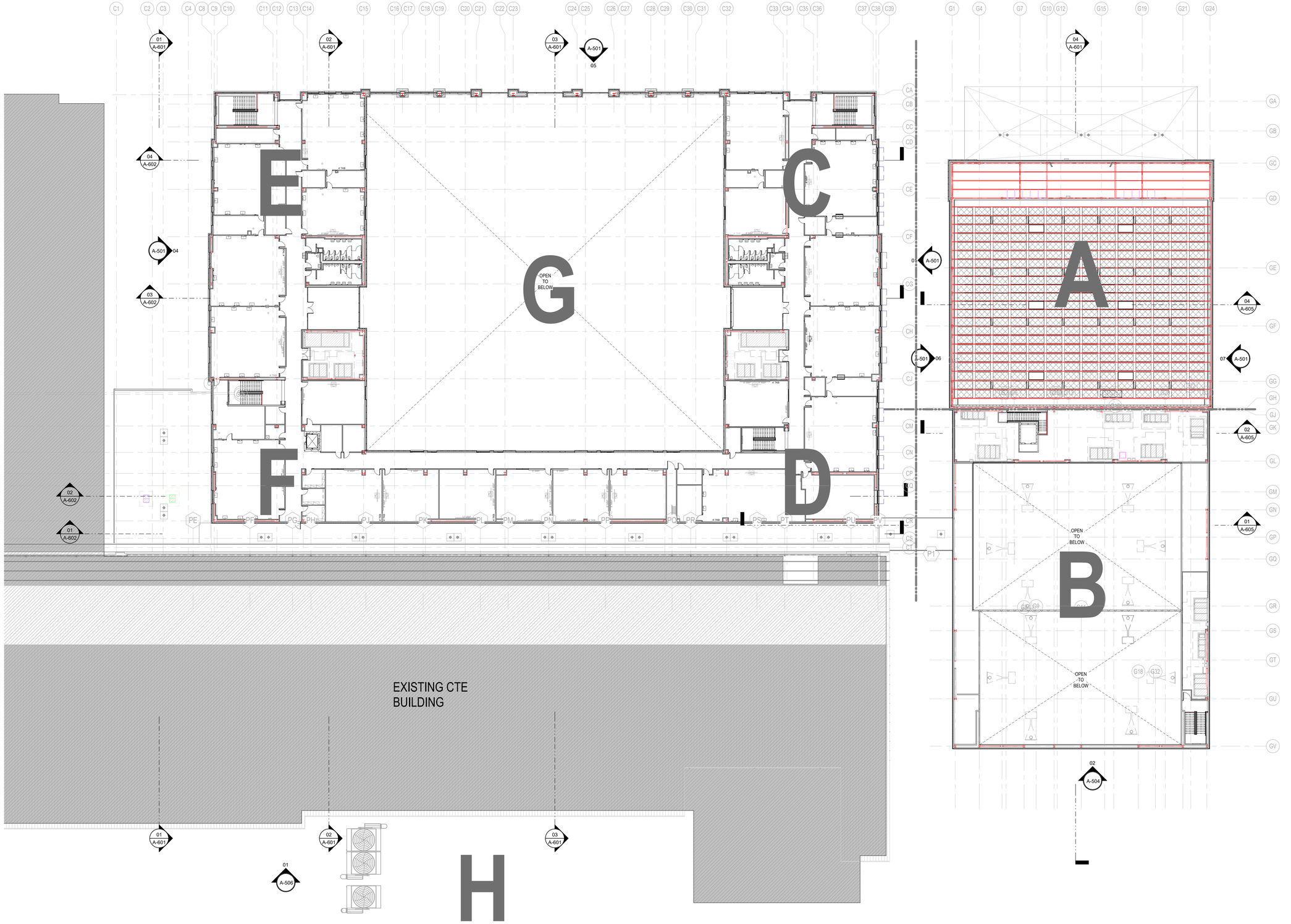
LEVEL 2 - AREA F FLOOR PLAN

A-102F

LEVEL 2 - AREA F FLOOR PLAN
A-102F
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/5/2025 3:00:08 PM

0"
1"



01 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

Plot Stamp:
12/5/2025 3:00:11 PM

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KEY PLAN
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REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

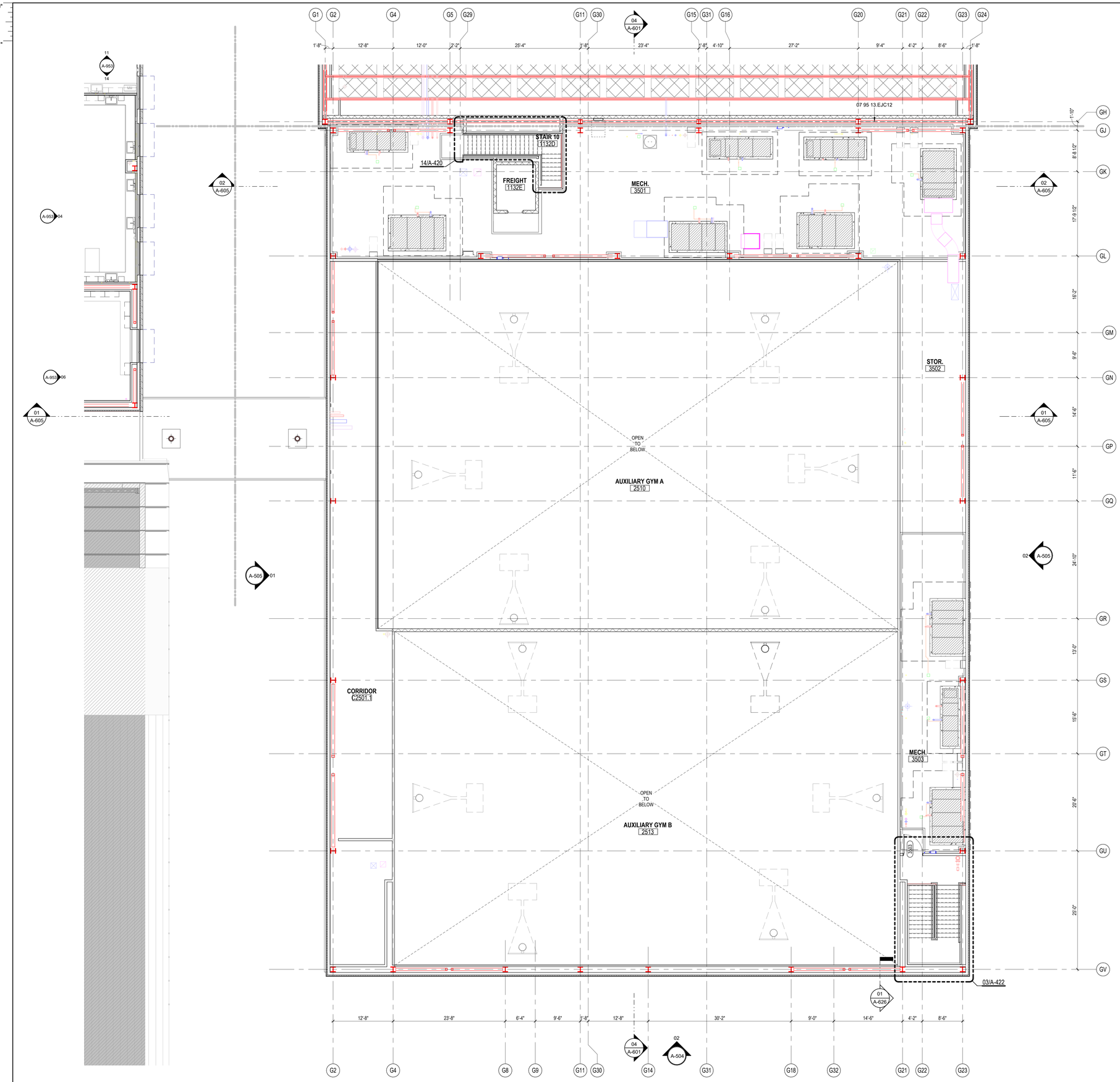
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - OVERALL FLOOR PLAN

A-103

LEVEL 3 - AREA B FLOOR PLAN
A-103B

FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 3 - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-600 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13.EJC12	EXTERIOR, ROOF EXPANSION JOINT COVER

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

LEVEL 3 - AREA B FLOOR PLAN

A-103B

Plot Stamp:
12/5/2025 3:00:14 PM

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
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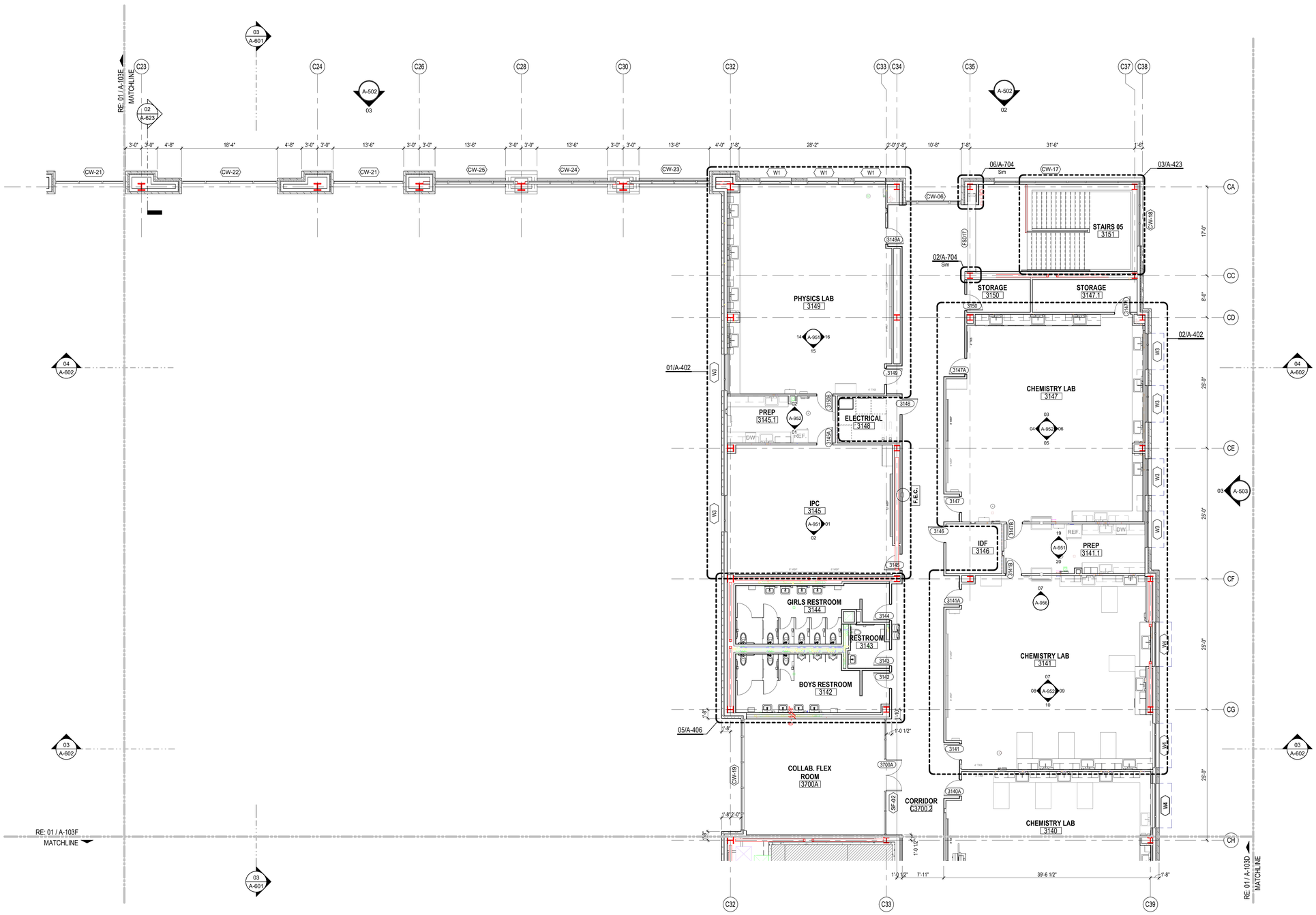
KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA C NEW GYM FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:00:17 PM

LEVEL 3 - AREA C FLOOR PLAN
A-103C
FOR BLUEBEAM LABELING/OCR:

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JAN LEPICOVSKY
25572
REGISTERED ARCHITECT

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA C FLOOR PLAN

A-103C

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
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16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
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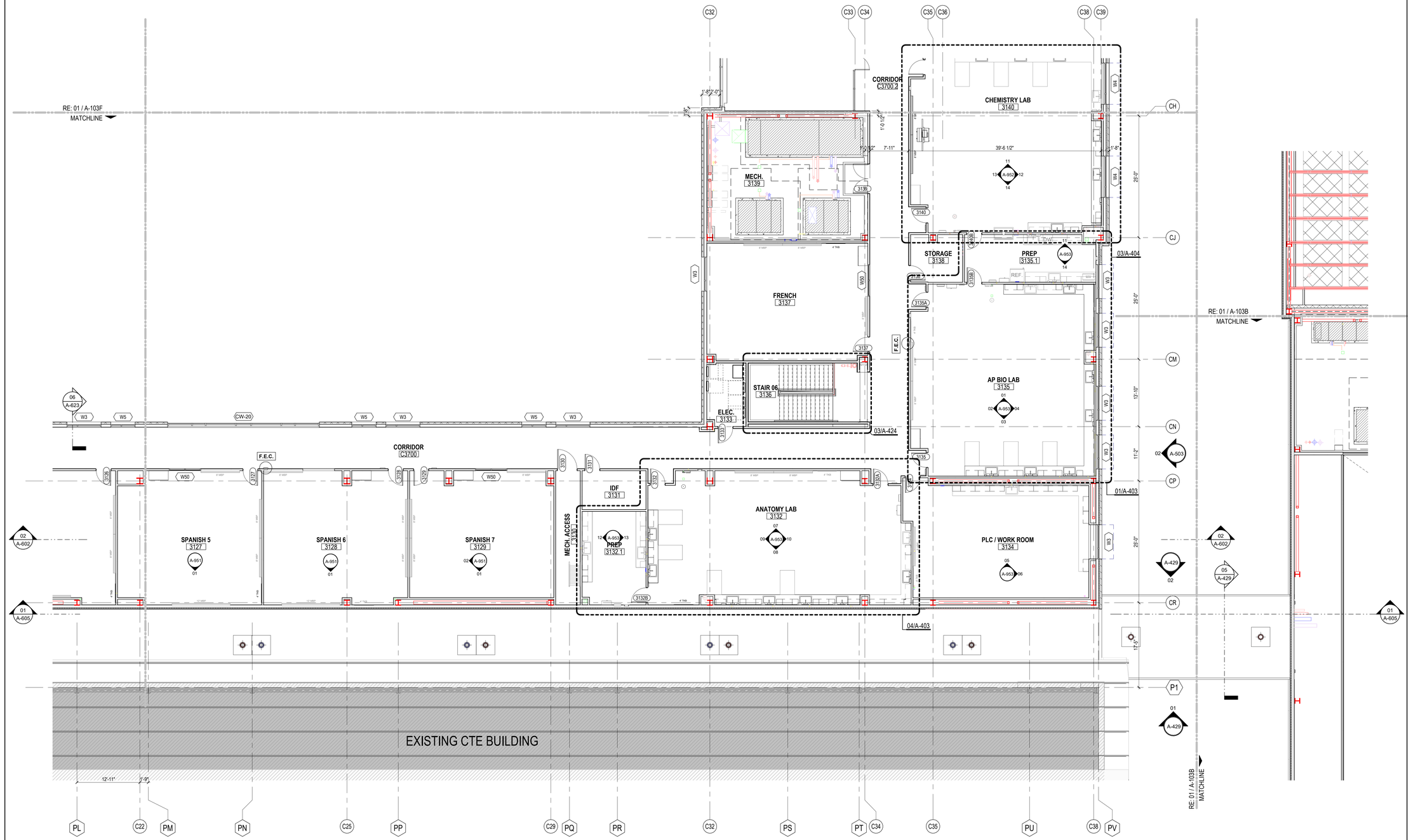
KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA D NEW GYM FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:00:19 PM

LEVEL 3 - AREA D FLOOR PLAN
A-103D
FOR BLUEBEAM LABELING/OCR:

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

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KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA D FLOOR PLAN

A-103D

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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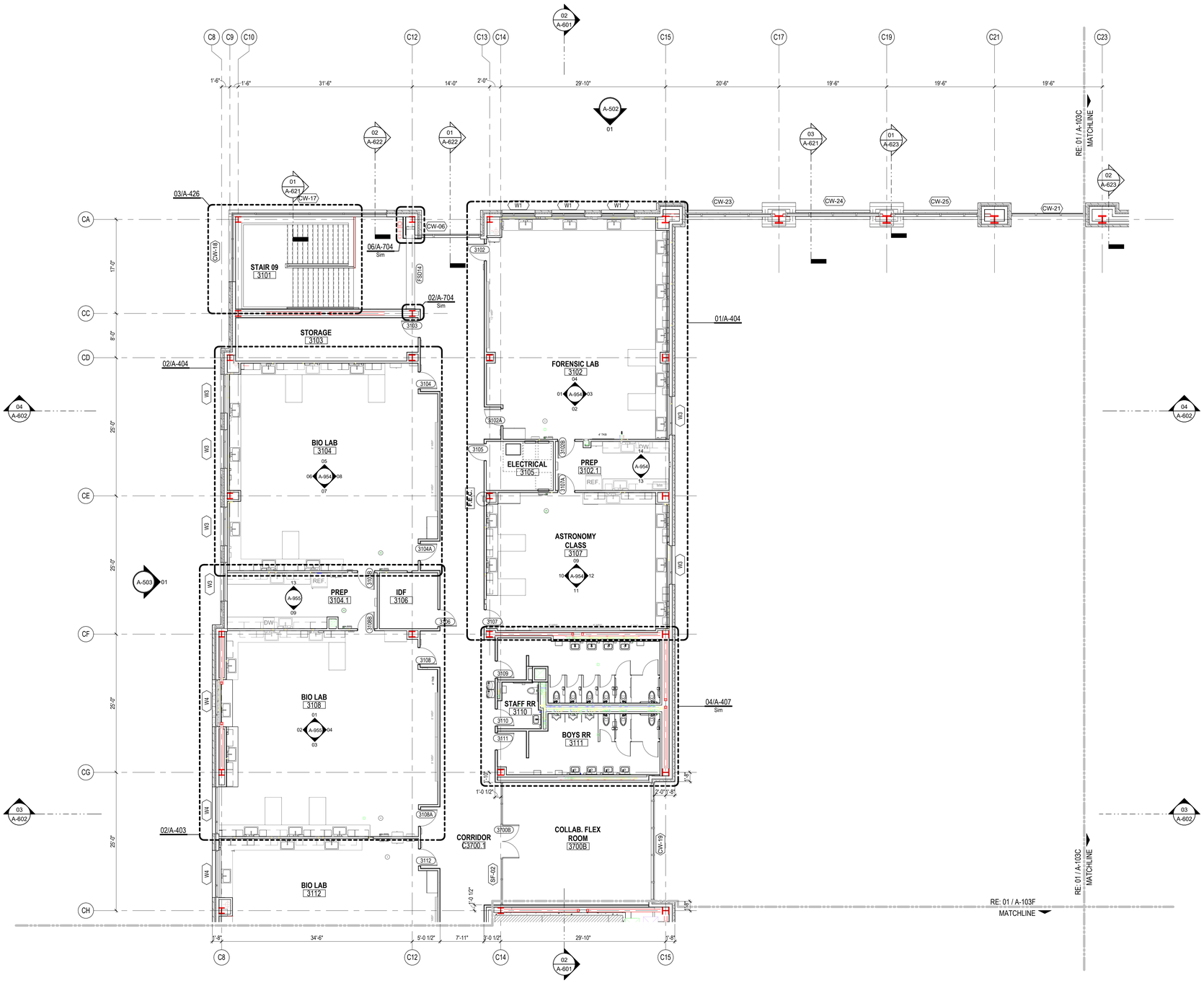
NUMBER	DESCRIPTION



01 LEVEL 3 - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

LEVEL 3 - AREA E FLOOR PLAN
A-103E
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/5/2025 3:00:22 PM

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA E FLOOR PLAN

A-103E

LEVEL 3 - AREA F FLOOR PLAN
A-103F
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:00:25 PM

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HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN / TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

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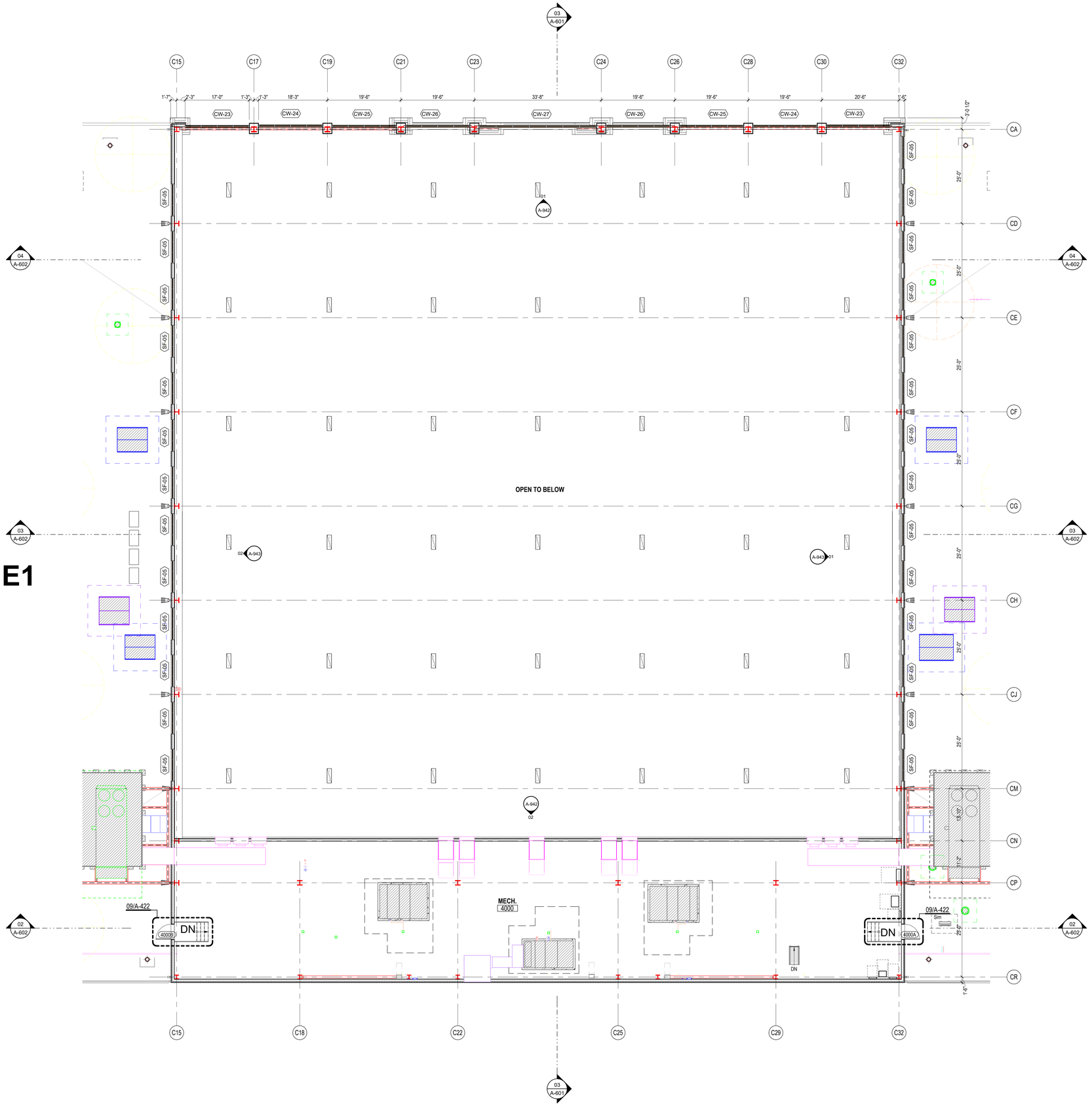
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA F
FLOOR PLAN

A-103F

0"
1"

MECHANICAL PENTHOUSE & CLEARSTORY FLOOR PLAN
A-104M
FOR BLUEBEAM LABELING/DOOR:



E1

KEYNOTE LEGEND

NUMBER	DESCRIPTION

01 MECHANICAL PENTHOUSE & CLERESTORY FLOOR PLAN
3/32" = 1'-0"

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HOUSTON, TX
713-865-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

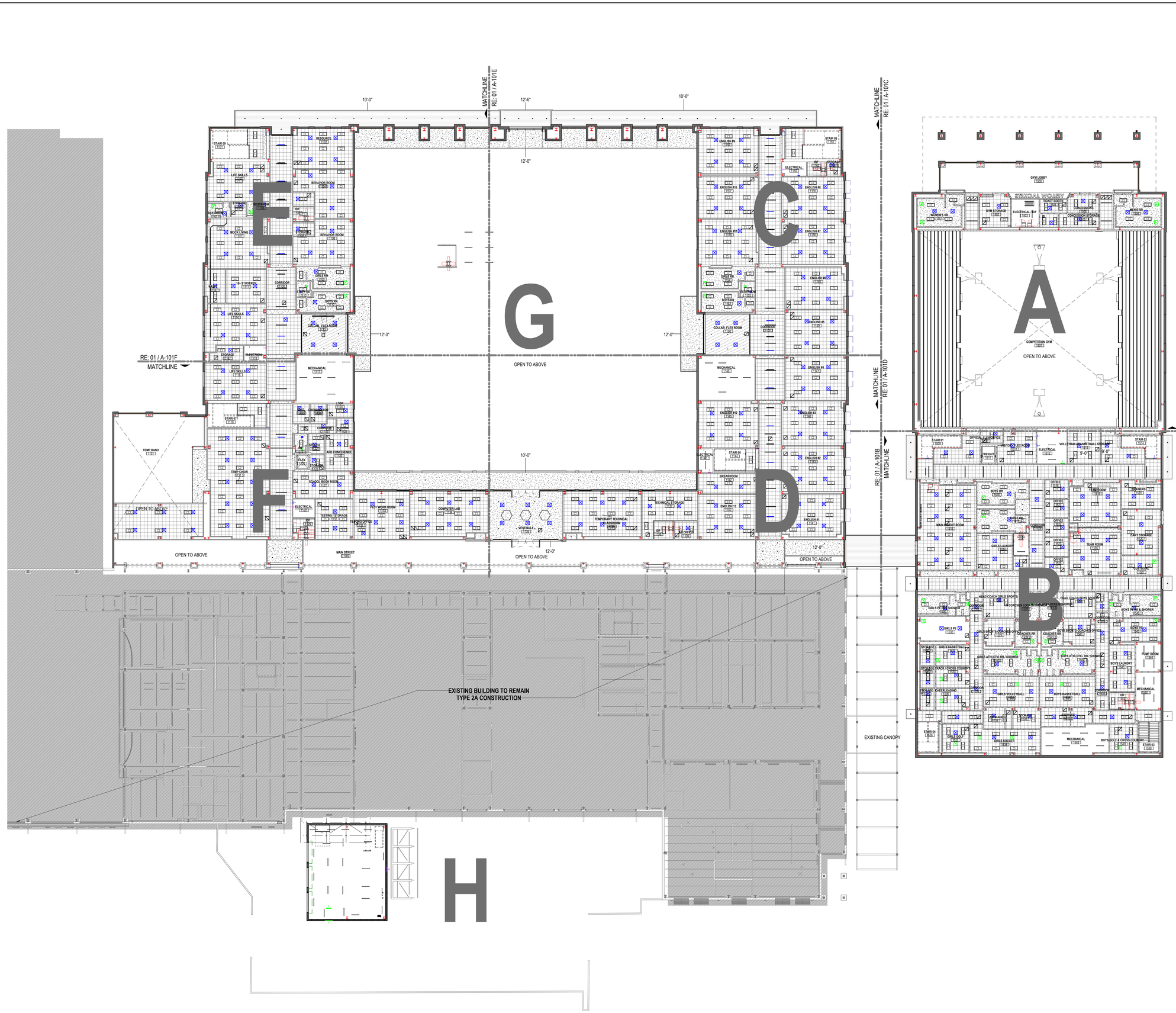
MECHANICAL PENTHOUSE & CLEARSTORY FLOOR PLAN

A-104M

Plot Stamp:
12/5/2025 3:00:27 PM

LEVEL 1 - OVERALL CEILING PLAN
A-201
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 1 - NEW GYM & MULTIPURPOSE FACILITY OVERALL CEILING PLAN
1" = 20'-0"

Plot Stamp:
12/5/2025 3:00:35 PM

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713-865-6008
TX FIRM: BR 1608
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

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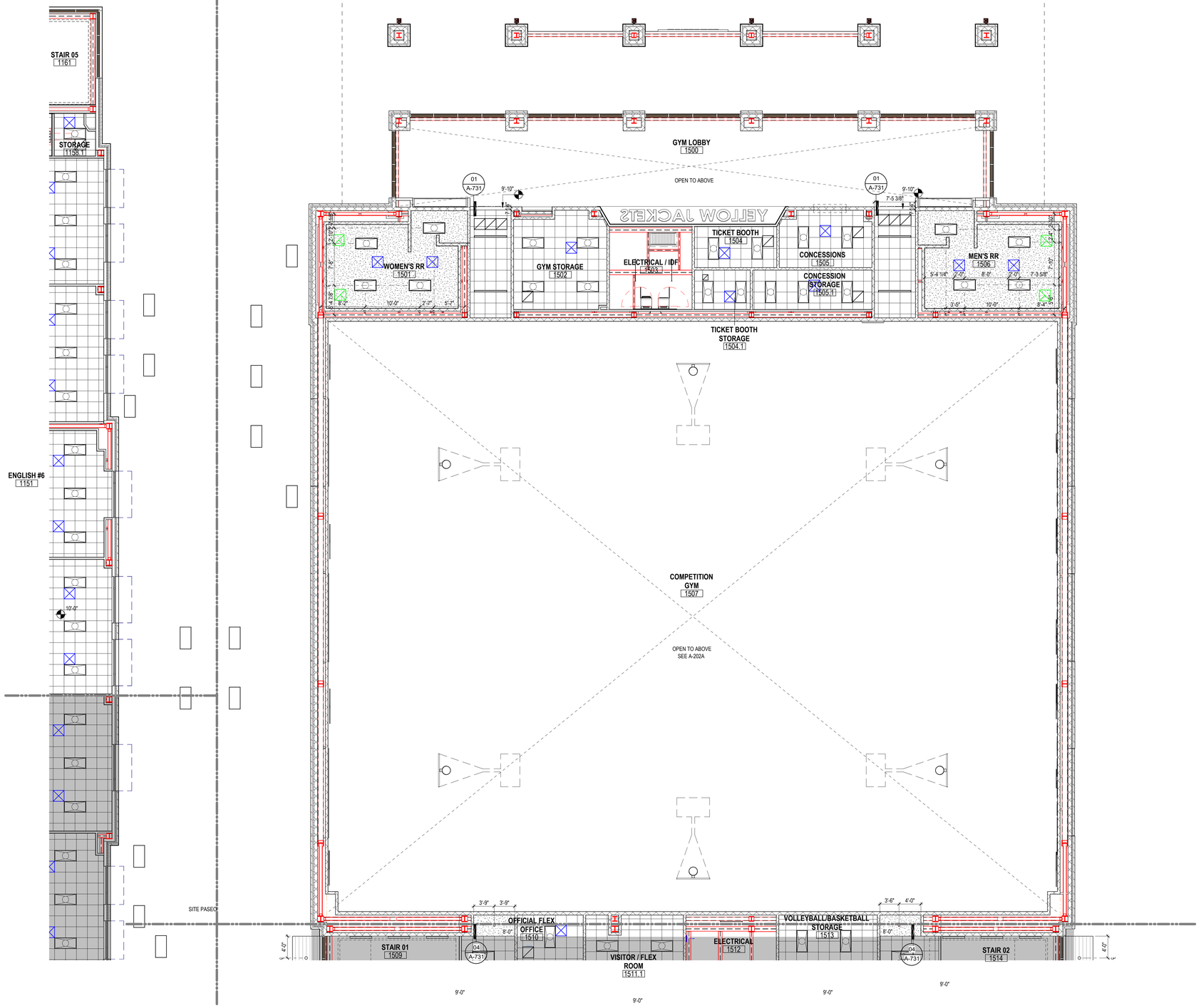
LEVEL 1 - OVERALL CEILING PLAN

A-201

0"
1"

LEVEL 1 - AREA A CEILING PLAN
A-201A
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 1 - AREA A NEW GYM CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT _10'-0"___ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT____A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.
17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA A CEILING PLAN

A-201A

Plot Stamp:
12/5/2025 3:00:38 PM

LEVEL 1 - AREA B CEILING PLAN
A-201B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 1 - AREA B NEW GYM CEILING PLAN CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
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- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
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- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
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- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
STEVEN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA B CEILING PLAN

A-201B

Plot Stamp:
12/5/2025 3:00:44 PM

LEVEL 1 - AREA C CEILING PLAN
A-201C
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
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- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

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- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 1 - AREA C NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

PBK
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TX FIRM: BR 1608
HOUSTON, TX
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA C
CEILING PLAN

A-201C

Plot Stamp:
12/5/2025 3:00:49 PM

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __10'-0"__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT ___ A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 1 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:00:55 PM

LEVEL 1 - AREA D CEILING PLAN
A-201D
FOR BLUEBEAM LABELING/OCR:

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA D CEILING PLAN

A-201D

0"

1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __10'-0"__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT ___ A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

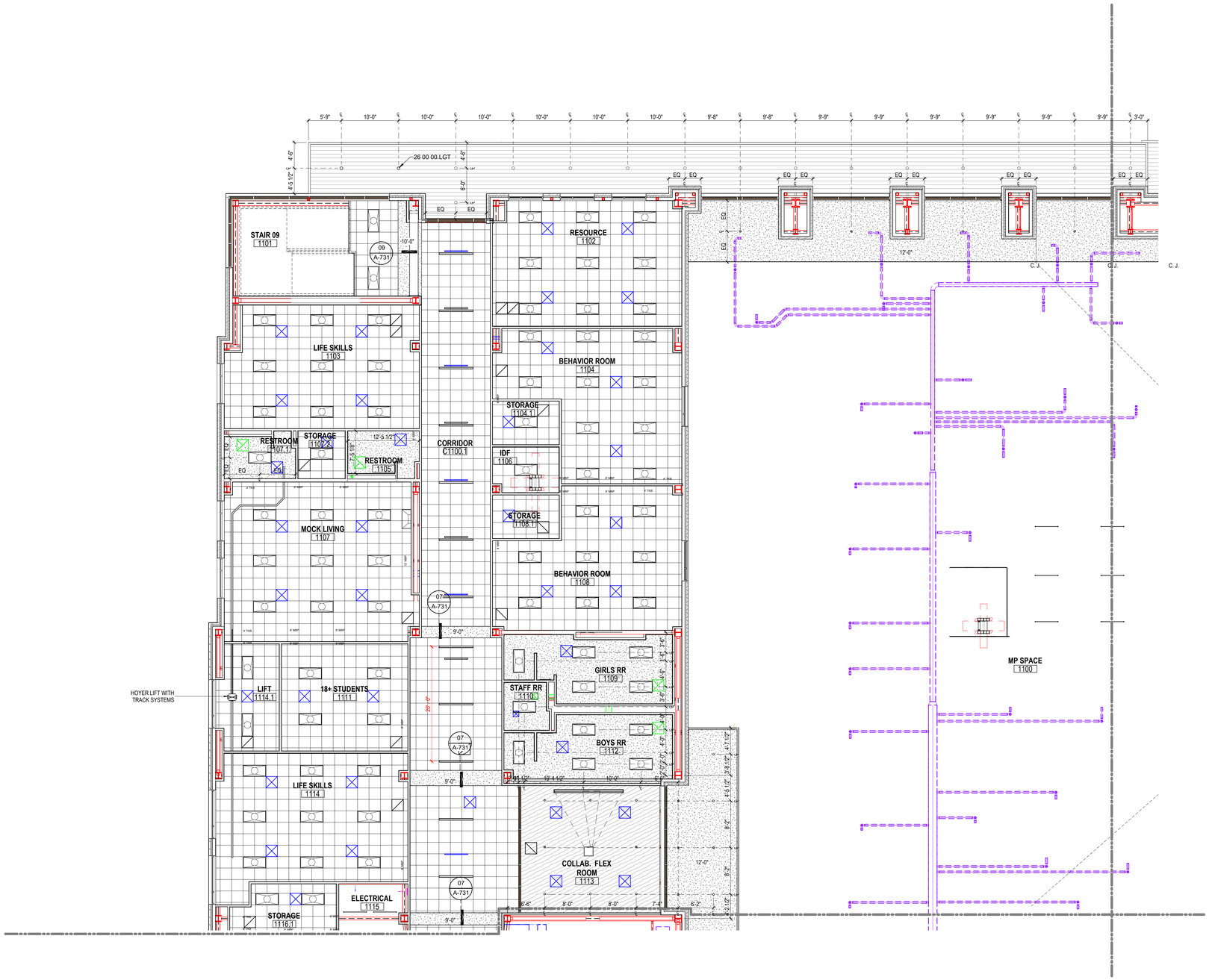
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL



01 LEVEL 1 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

LEVEL 1 - AREA E CEILING PLAN
A-201E
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
12/5/2025 3:00:59 PM

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HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA E CEILING PLAN

A-201E

LEVEL 1 - AREA F CEILING PLAN
A-201F
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __10'-0"__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT ___ A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

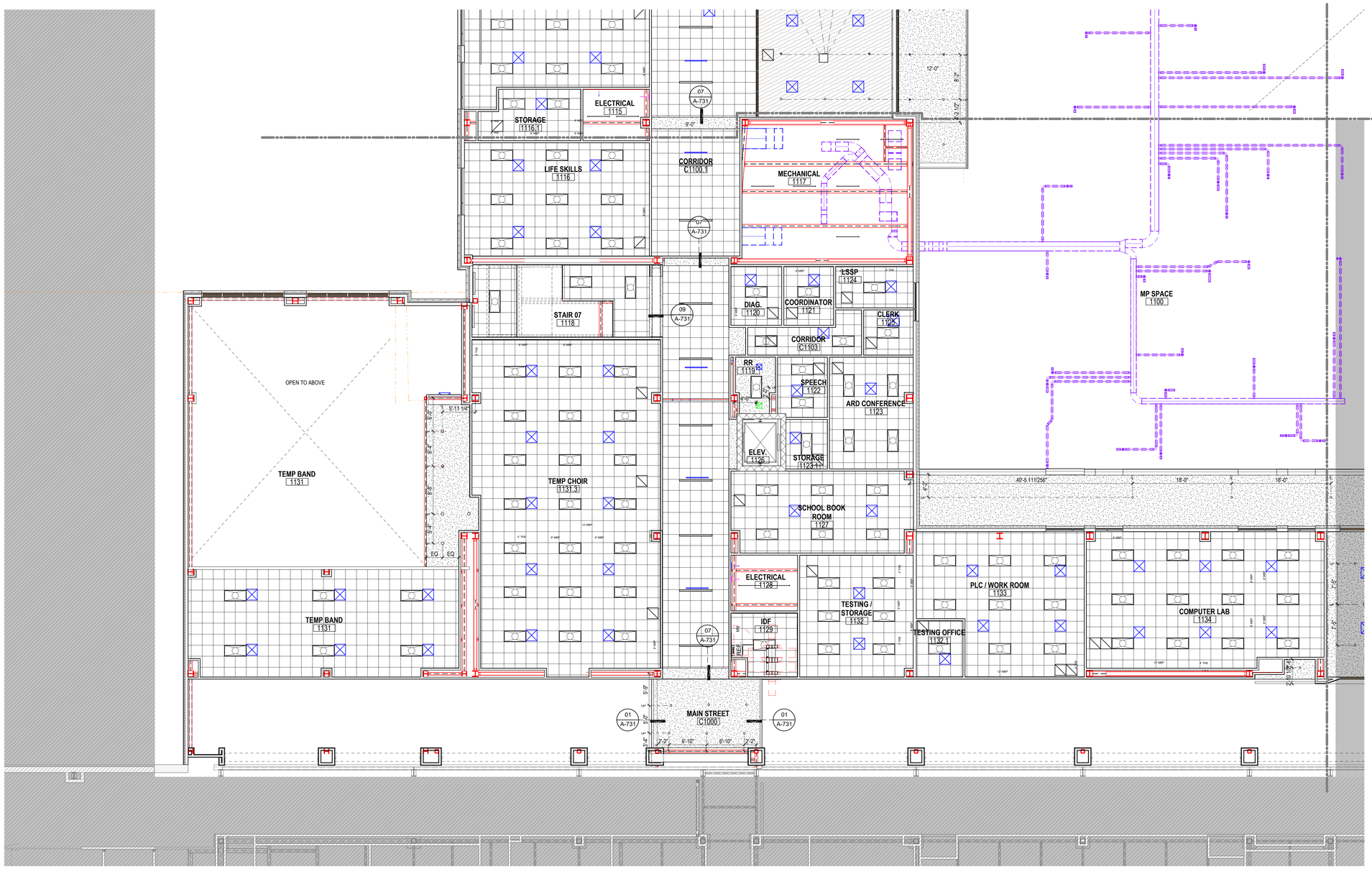
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 1 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:01:04 PM

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

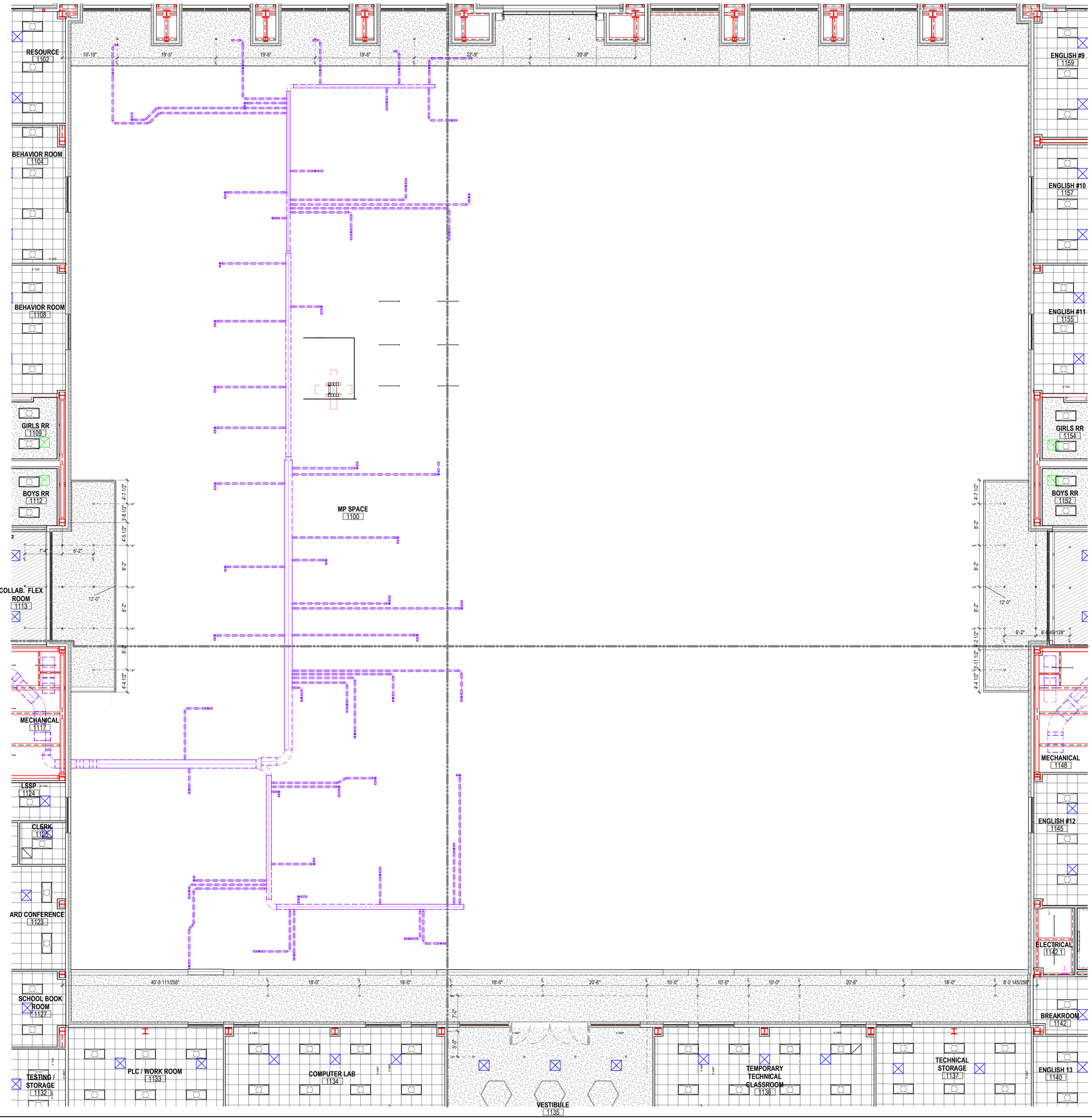
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA F
CEILING PLAN

A-201F

LEVEL 1 - AREA G CEILING PLAN
A-201G
FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 AREA G NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT _10'-0"___ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT____A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.
17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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HOUSTON, TX
713-865-0008
TX FIRM: BR 1608
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

G

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

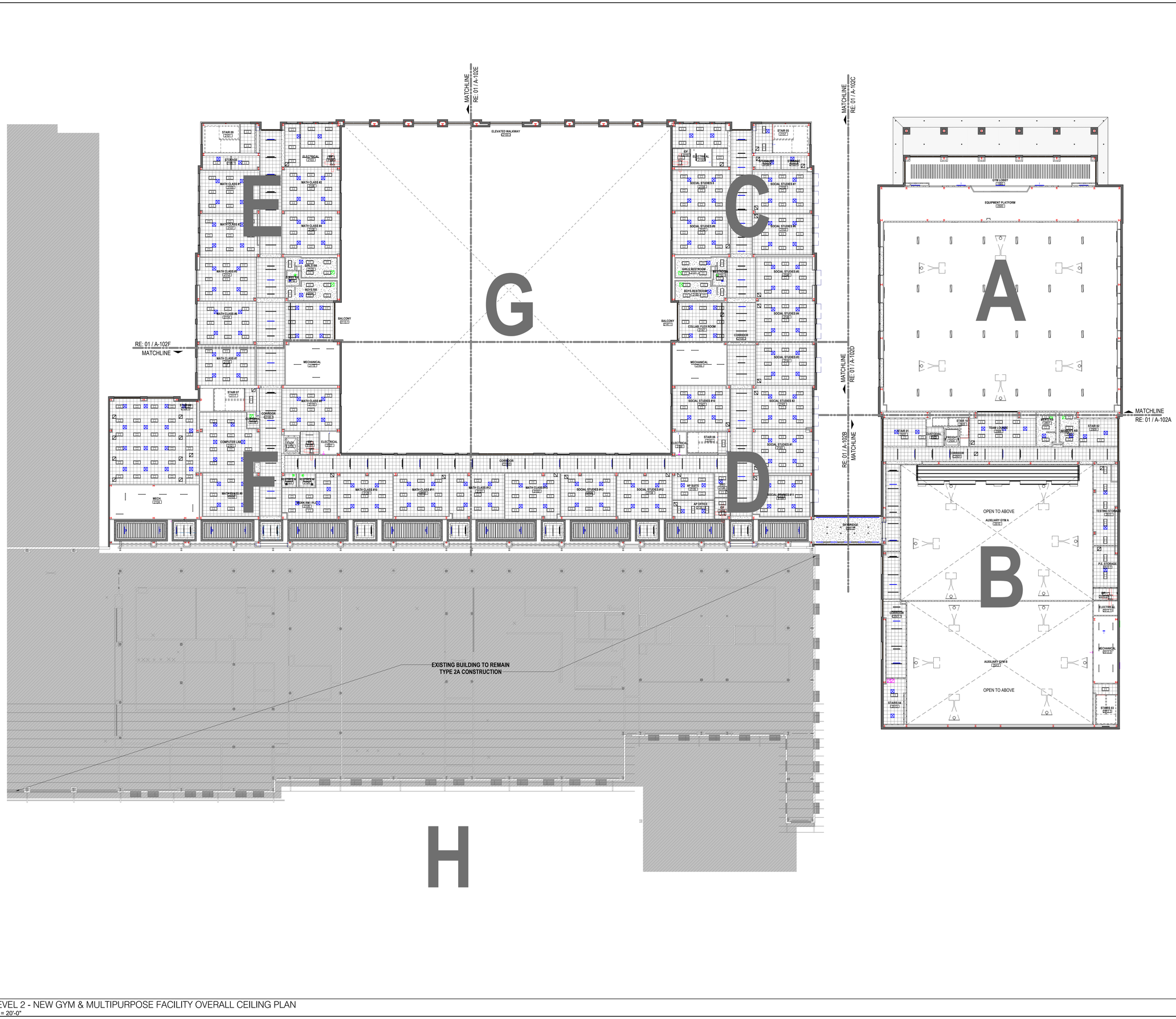
LEVEL 1 - AREA G
CEILING PLAN

A-201G

Plot Stamp:
12/5/2025 3:01:08 PM

LEVEL 2 - OVERALL CEILING PLAN
A-202
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 2 - NEW GYM & MULTIPURPOSE FACILITY OVERALL CEILING PLAN
1" = 20'-0"

Plot Stamp:
12/5/2025 3:01:12 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IVAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

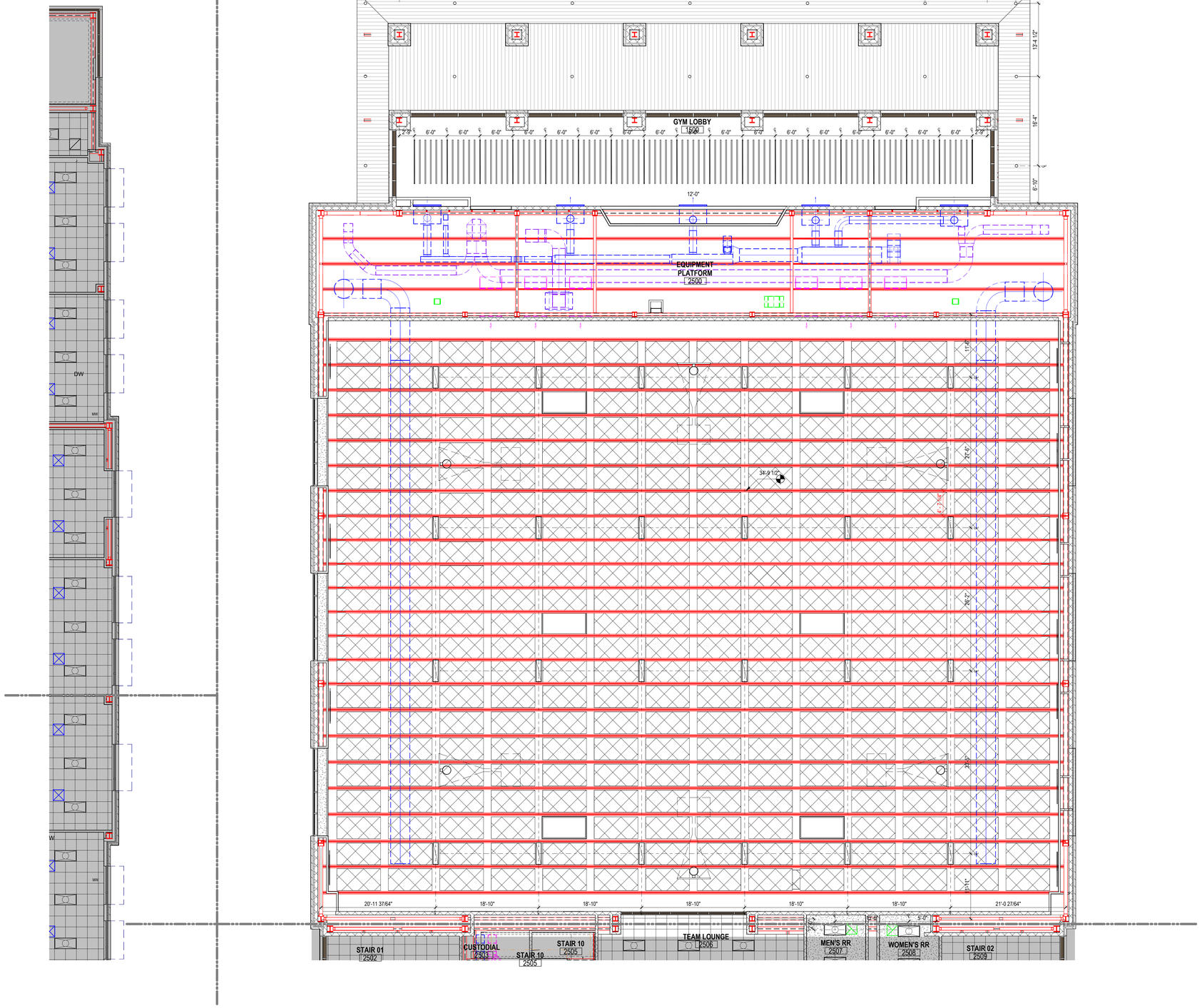
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - OVERALL CEILING PLAN

A-202

0"
1"

LEVEL 2 - AREA A CEILING PLAN
A-202A
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 2 - AREA A NEW GYM CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT _10'-0"___ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT____A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.
17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'X2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1" X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

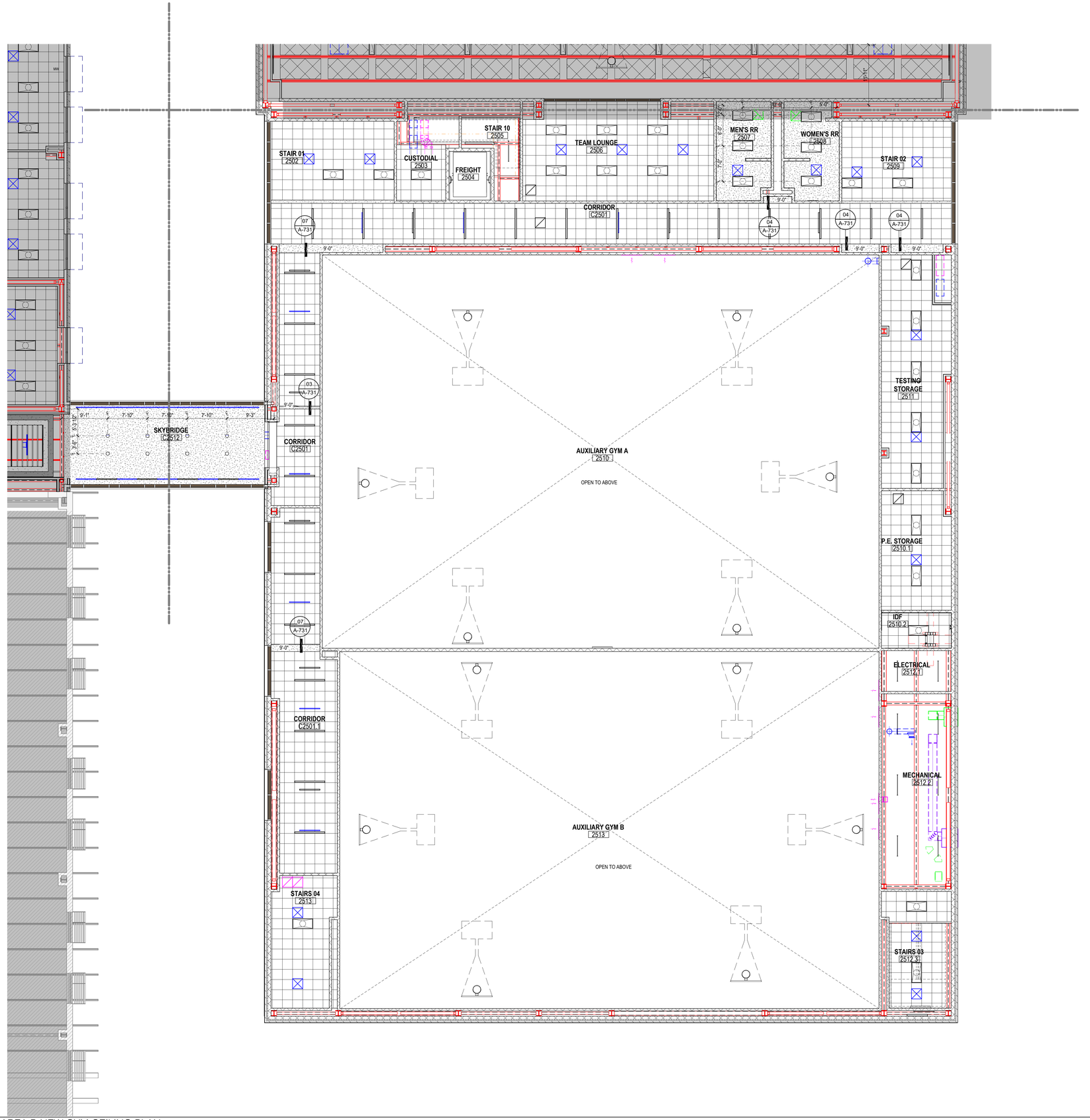
LEVEL 2 - AREA A CEILING PLAN

A-202A

Plot Stamp:
12/5/2025 3:01:14 PM

0"
1"

LEVEL 2 - AREA B CEILING PLAN
A-202B
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 2 - AREA B NEW GYM CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
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- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

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- PROJECTOR

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

1000 Keene St.
Galena Park, TX. 77547

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA B CEILING PLAN

A-202B

Plot Stamp:
12/5/2025 3:01:17 PM

LEVEL 2 - AREA C CEILING PLAN
A-202C
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

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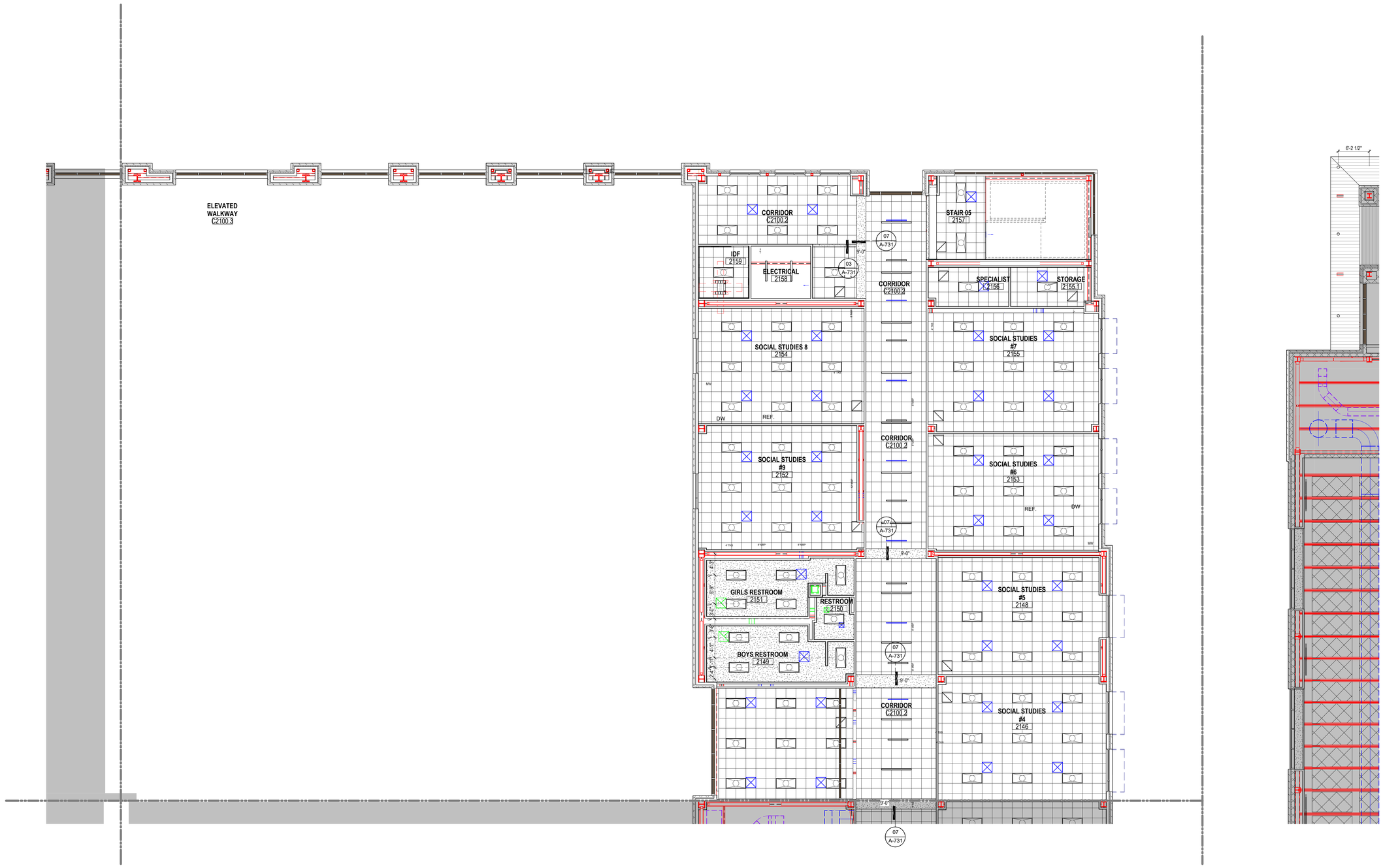
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 2 - AREA C NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA C
CEILING PLAN

A-202C

Plot Stamp:
12/5/2025 3:01:19 PM

LEVEL 2 - AREA D CEILING PLAN
A-202D
FOR BLUEBEAM LABELING/OCR:

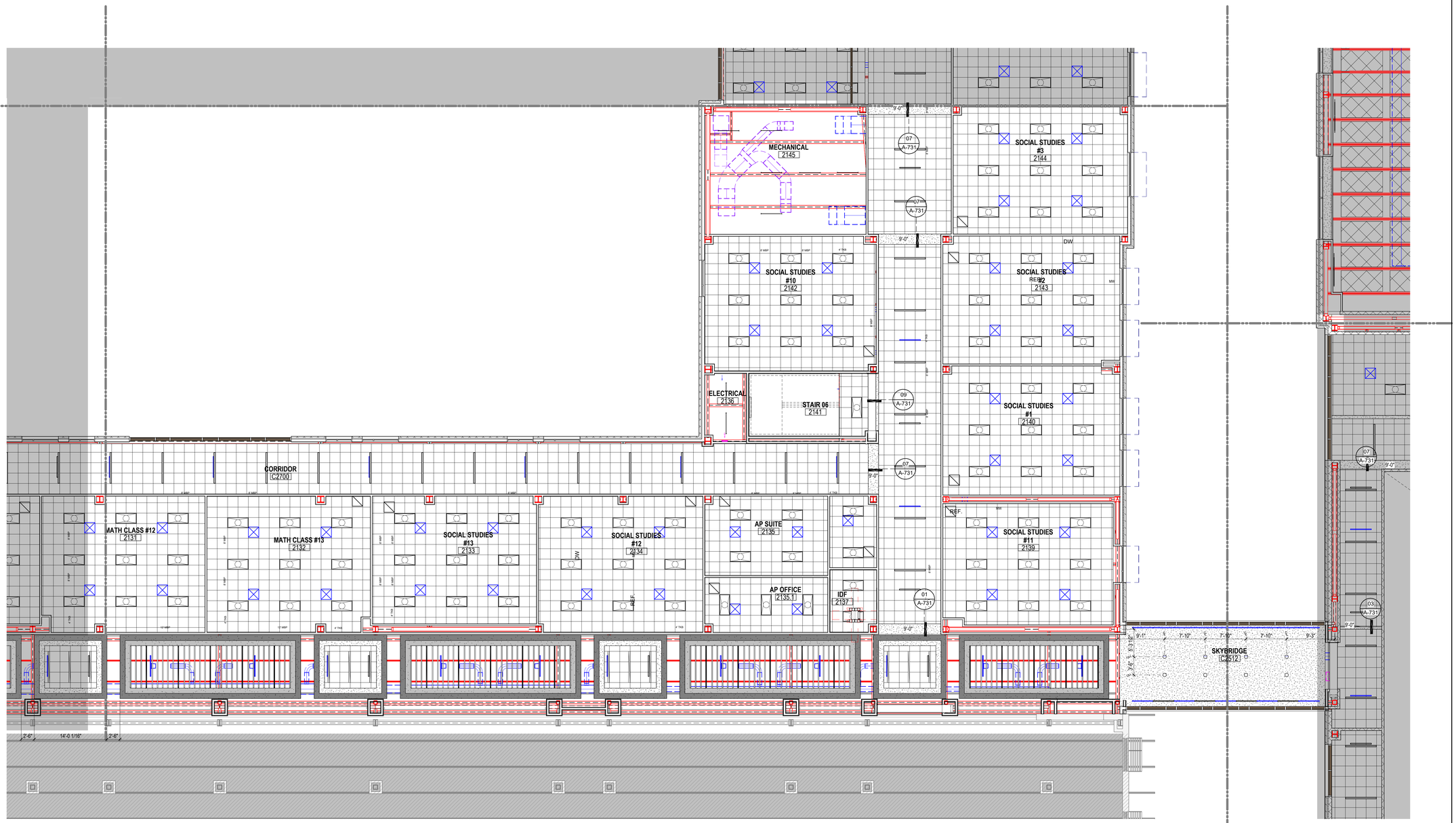
0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 2 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:01:23 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D
CEILING PLAN

A-202D

0"

1"

LEVEL 2 - AREA E CEILING PLAN
A-202E

FOR BLUEBEAM LABELING/OCR:

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
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- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 2 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:01:25 PM

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HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL TOTAL AREAS

E

KEY PLAN

NORTH: PLAN TRUE

LICENSED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

LEVEL 2 - AREA E CEILING PLAN

A-202E

0"

1"

LEVEL 2 - AREA F CEILING PLAN
A-202F
FOR BLUEBEAM LABELING/OCR:

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __10'-0"__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT ___ A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

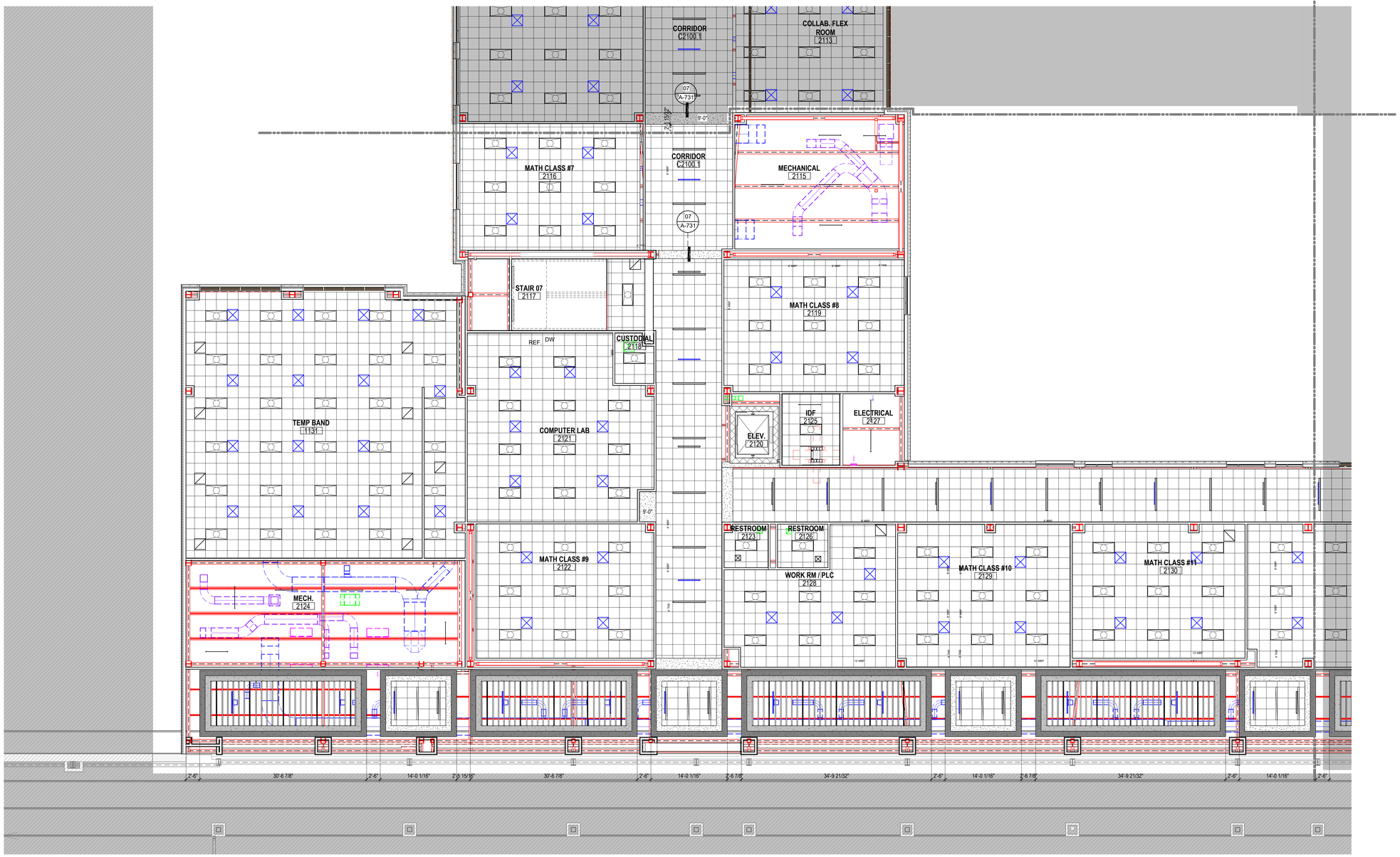
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 2 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539
DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

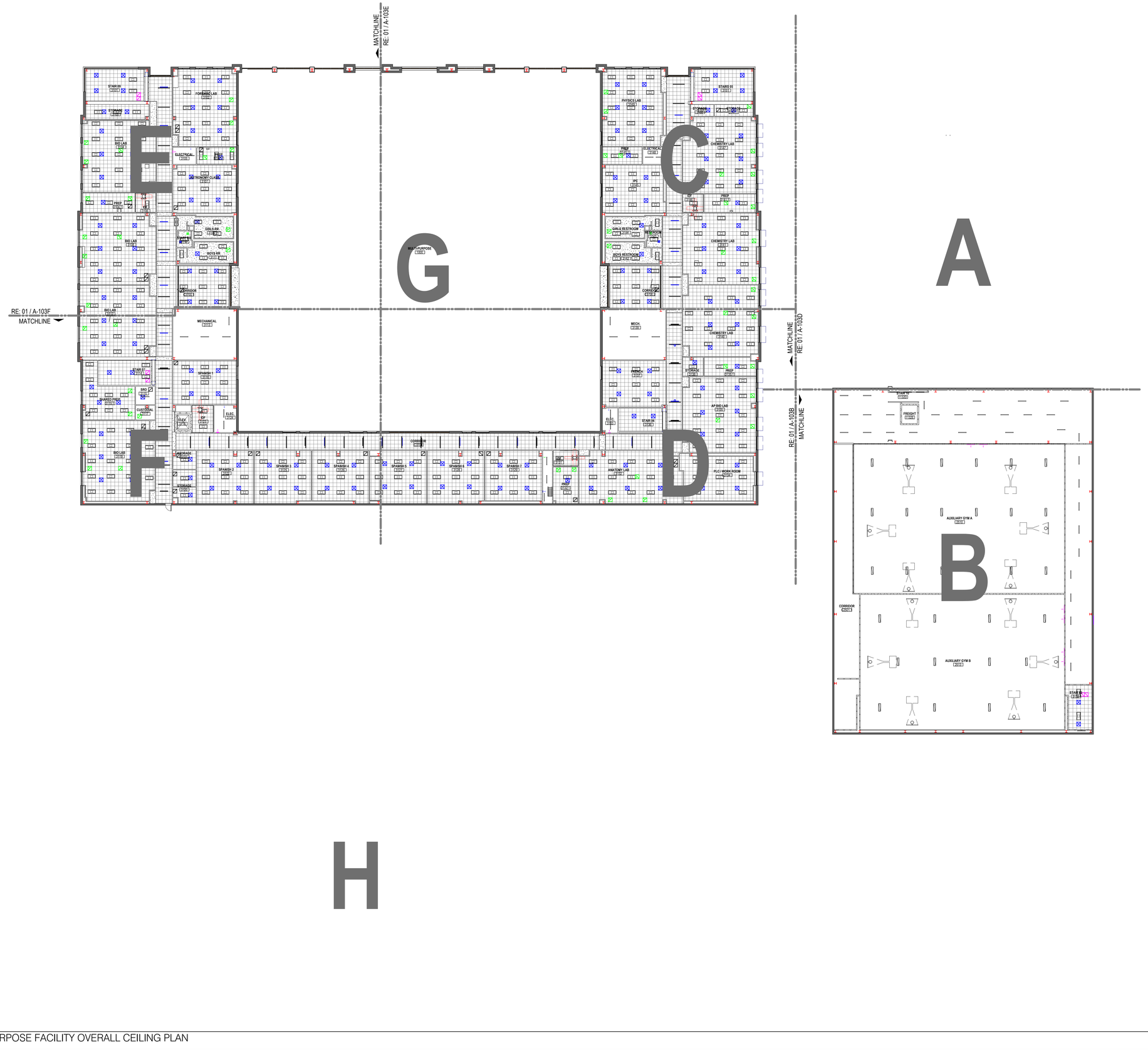
LEVEL 2 - AREA F CEILING PLAN

A-202F

Plot Stamp:
12/5/2025 3:01:28 PM

LEVEL 3 - OVERALL CEILING PLAN
A-203
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL CEILING PLAN
1" = 20'-0"

Plot Stamp:
12/5/2025 3:01:30 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - OVERALL CEILING PLAN

A-203

LEVEL 3 - AREA C CEILING PLAN
A-203C
FOR BLUEBEAM LABELING/DOCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
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CEILING FIXTURE LEGEND

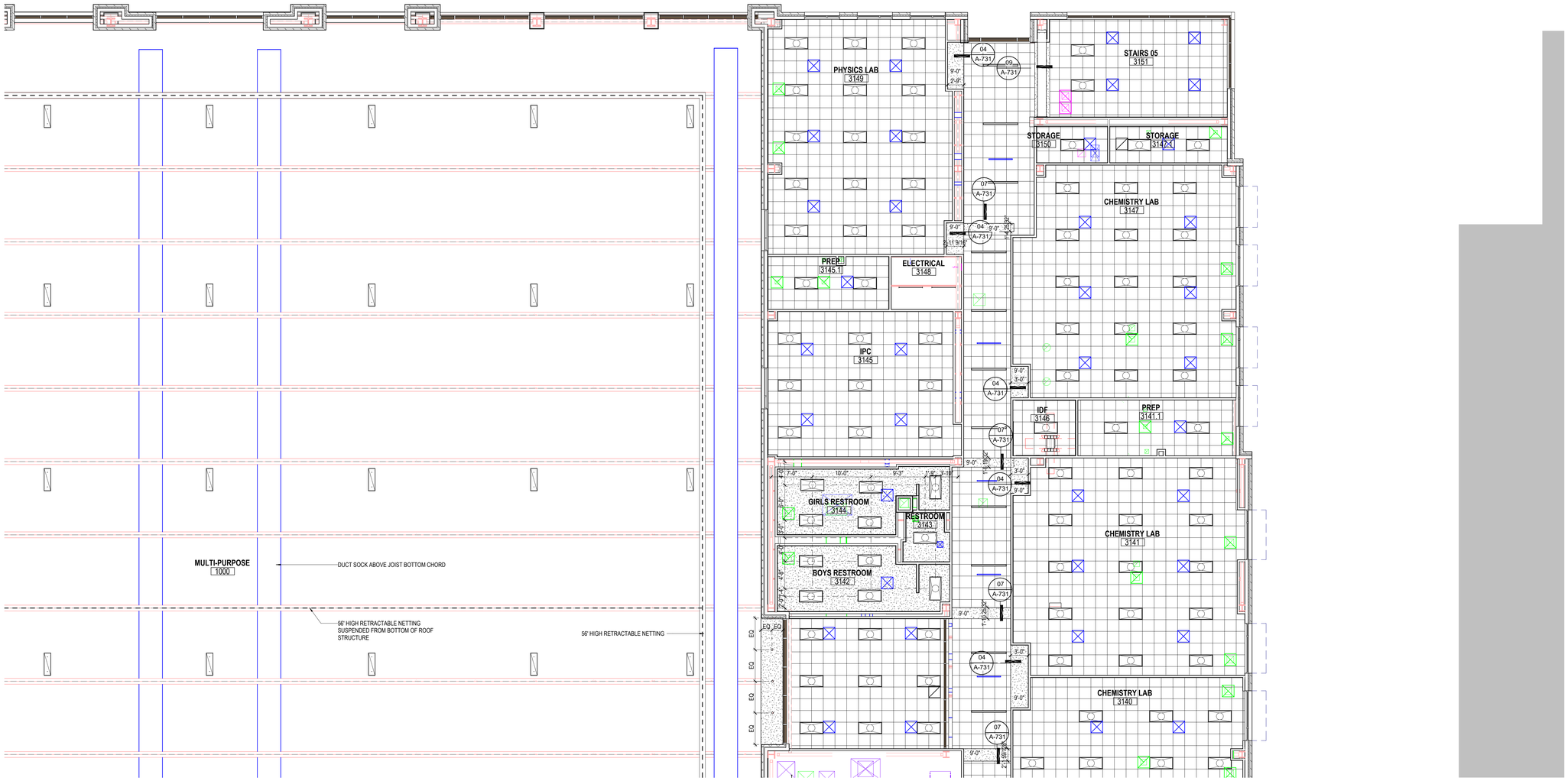
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA C CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:01:33 PM

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

LEPICOVSKY JAN REGISTERED ARCHITECT 25572 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA C CEILING PLAN

A-203C

LEVEL 3 - AREA D CEILING PLAN
A-203D
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
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6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
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8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
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13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE — *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE — *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE — *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER — *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER — *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER — *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT — *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT — *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE — *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT — *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
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- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:01:35 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA D CEILING PLAN

A-203D

0"
1"

LEVEL 3 - AREA E CEILING PLAN
A-203E
FOR BLUEBEAM LABELING/OCR:

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
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5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
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CEILING FIXTURE LEGEND

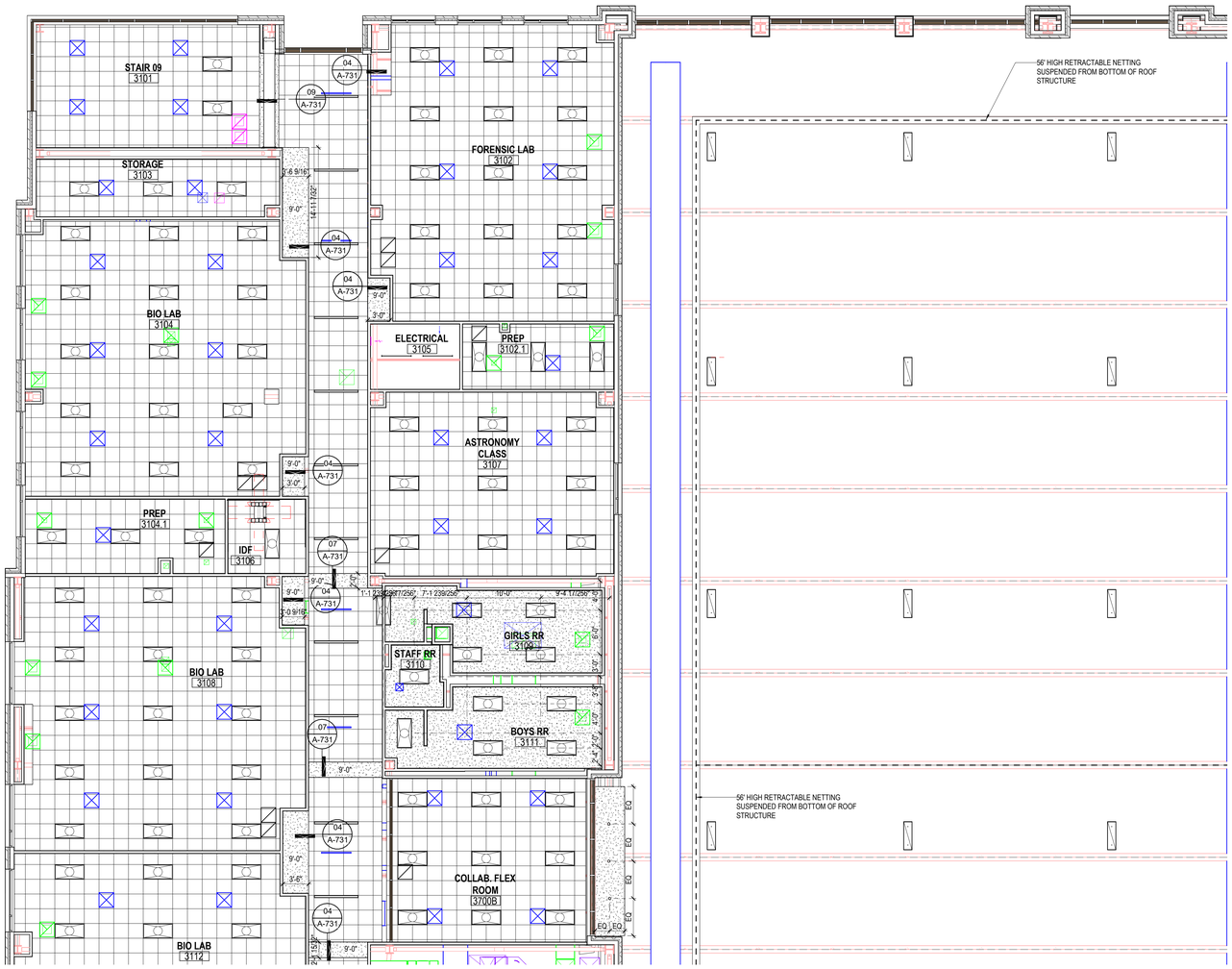
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:01:37 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA E
CEILING PLAN

A-203E

LEVEL 3 - AREA F CEILING PLAN
A-203F
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __10'-0"__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT ___ A.F.F. TO THE TOP OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

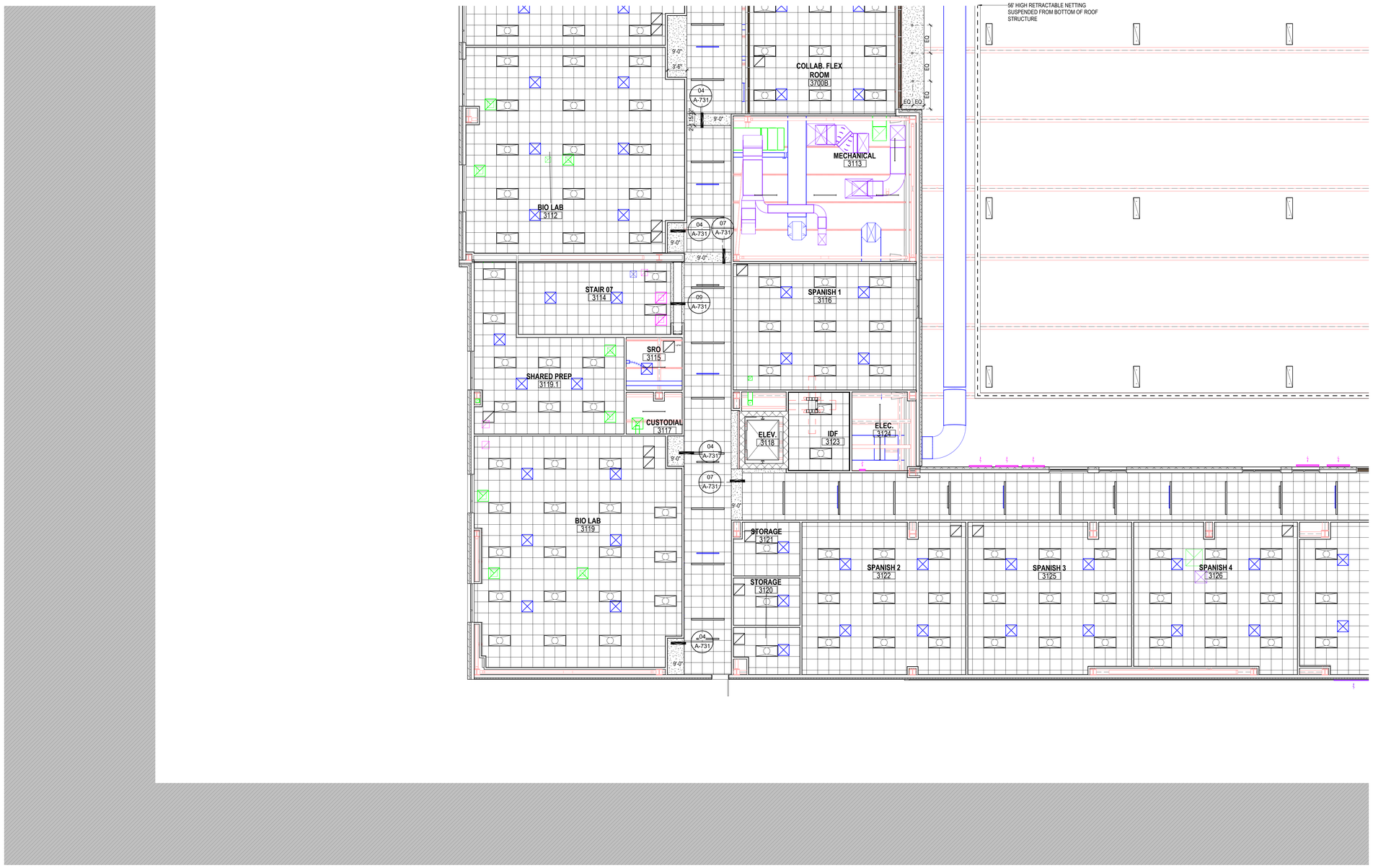
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION



01 LEVEL 3 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS REGISTERED ARCHITECT JOHN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

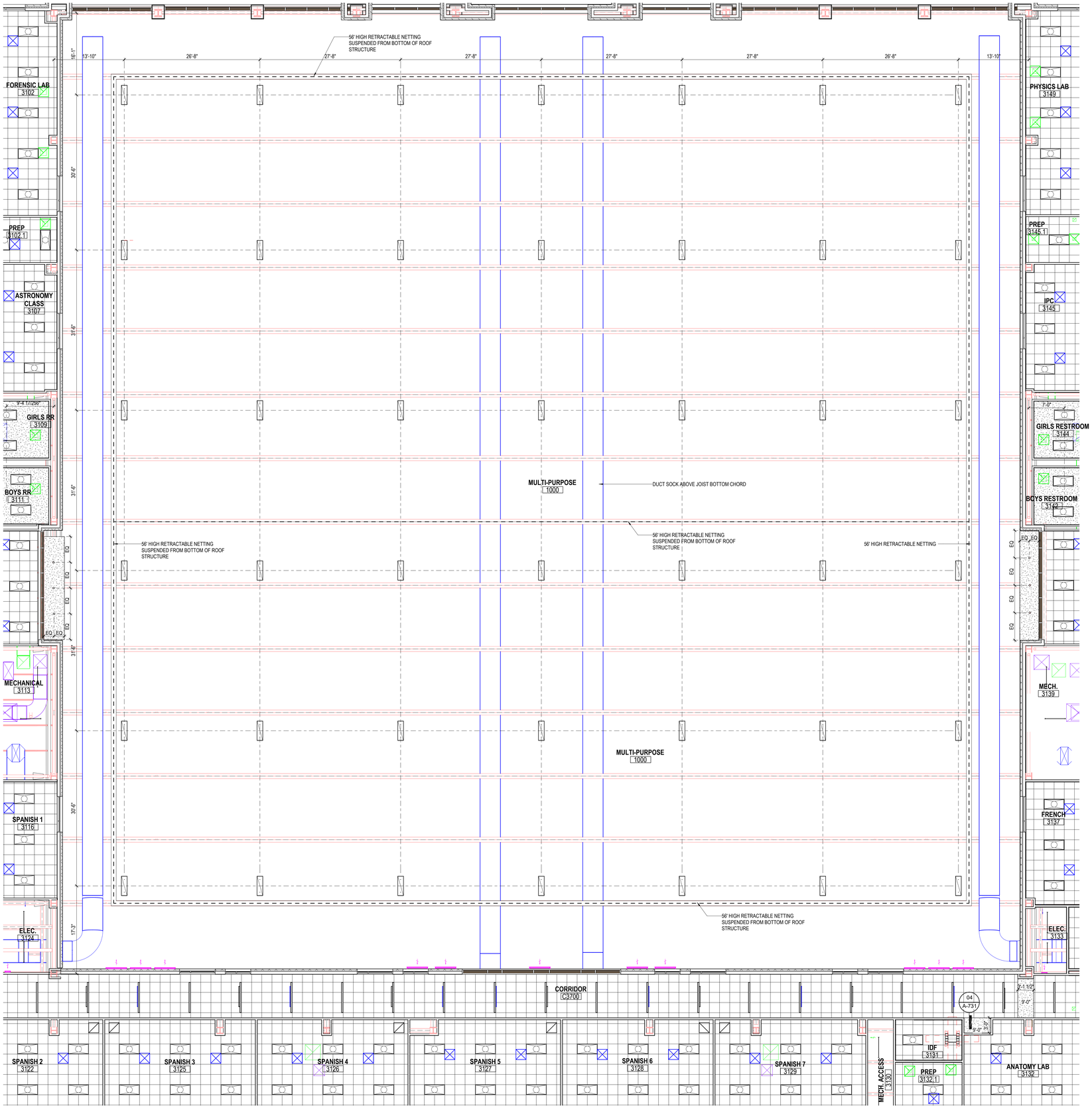
LEVEL 3 - AREA F
CEILING PLAN

A-203F

Plot Stamp:
12/5/2025 3:01:40 PM

LEVEL 3 - AREA G CEILING PLAN
A-203G
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 3 - AREA G NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
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17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
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- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
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- PROJECTOR

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ISSUE FOR PROPOSAL

Galena Park ISD

G

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA G CEILING PLAN

A-203G

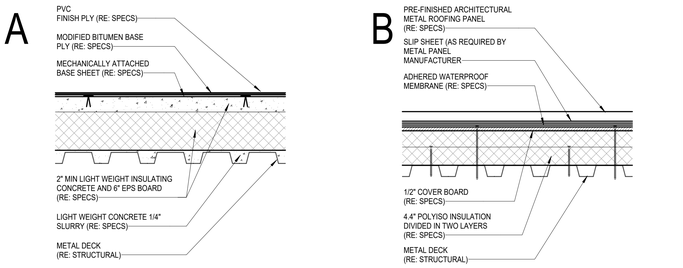
Plot Stamp:
12/5/2025 3:01:42 PM

OVERALL ROOF PLAN
A-301
FOR BLUEBEAM LABELING/DOOR:

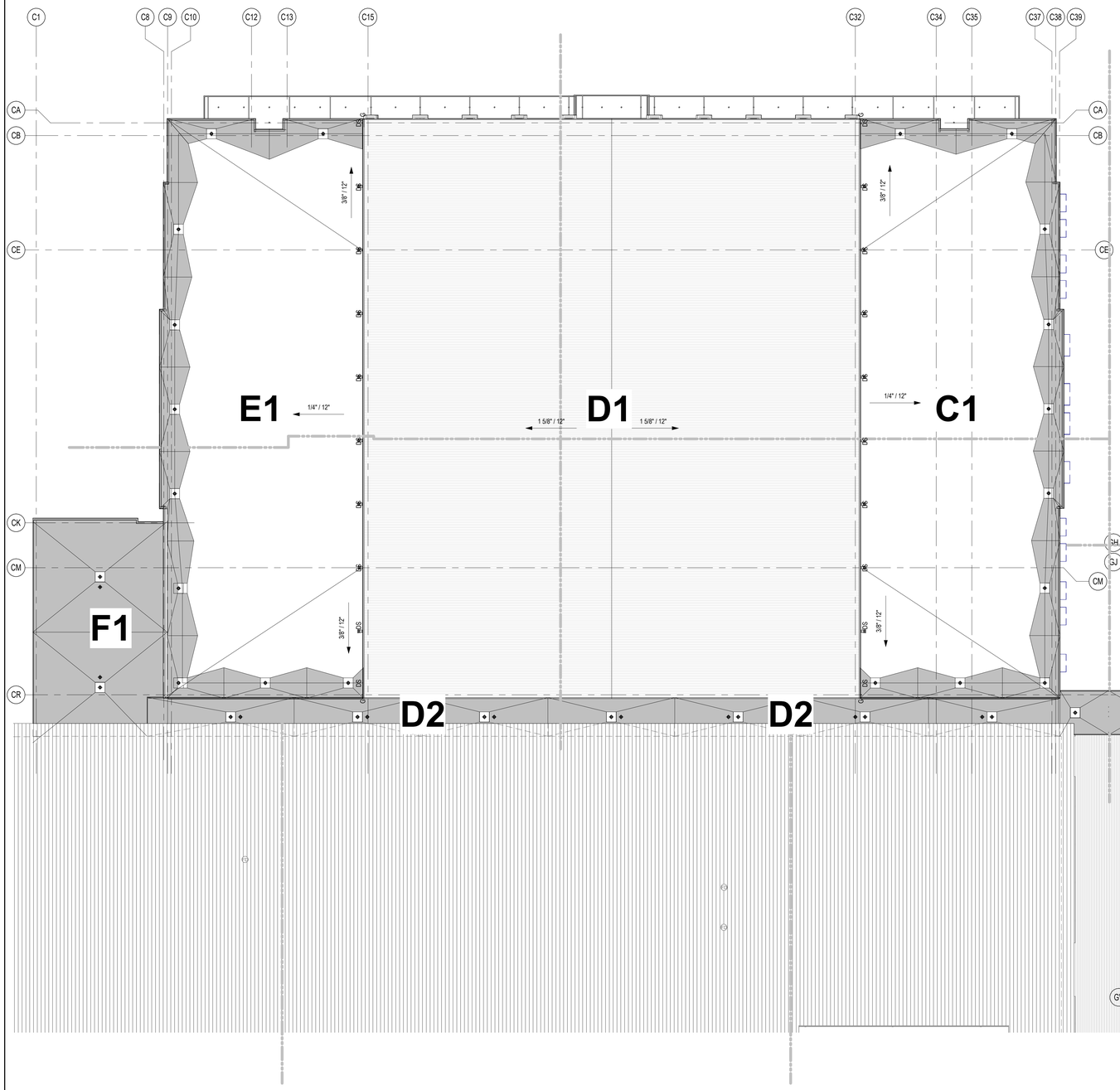
0"
1"

ROOF SCHEDULE

MARK	NOMENCLATURE	AREA	Comments
A1	A	17,918 SF	
A2	A	4,790 SF	Completely taper roof area
B1	A	24,061 SF	
C1	A	17,896 SF	
D1	B	44,772 SF	
D2	A	6,043 SF	Completely taper roof area
E1	A	17,896 SF	
F1	A	4,259 SF	Completely taper roof area
Grand total		137,634 SF	



26 ROOFING (HYBRID) - NOMENCLATURE
N.T.S.



1. CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND WARRANTY REQUIREMENTS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
3. INDICATED ROOF HEIGHTS ARE GENERAL IN NATURE.
4. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER ON ROOF PLAN.
5. NOTE THAT THE DETAILS DRAWN ARE GENERIC IN NATURE AND ARE NOT NECESSARILY LOCATED AND KEYED TO THE ROOF PLANS.
6. NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH.
7. PATCH EXISTING METAL ROOF DECK (AS APPLICABLE) FOR HOLES LESS THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING METAL ROOF DECK AND ADDING NEW INSULATION TO MATCH THICKNESS. PATCH EXISTING METAL ROOF DECK FOR HOLES GREATER THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING METAL ROOF DECK SPANNING FROM JOIST TO JOIST.
8. HVAC AND / OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. SHALL BE PLACED ON NEW CURBED PLATFORMS AS DETAILED. CURB MOUNTED HVAC UNITS, EQUIPMENT, ETC. SHALL HAVE A MINIMUM 10" CURB HEIGHT ABOVE FINISHED ROOF SURFACE.
9. WORK TO UTILITY CONDUIT OR PIPE SHALL BE PERFORMED BY SPECIFIC LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL WORK. PERMITS AND INSPECTIONS ARE REQUIRED. REROUTE AND / OR MODIFY UTILITY CONDUIT OR PIPE AS REQUIRED TO BE INSTALLED AS DETAILED.
10. UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION DOCUMENTS, EXPANSION JOINTS / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS (AS APPLICABLE) A MIN. 10" ABOVE ROOF DECK.
11. SOIL STACK FLASHING SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. COUPLE PVC PIPE ABOVE DECK AND COUPLE CAST IRON PIPE BELOW DECK.
12. PIPING/ CONDUITS/ ETC. SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS AS SPECIFIED. MEP CONTRACTORS SHALL PROVIDE SUPPORTS FOR UTILITY LINES.
13. PROVIDE SHEET METAL HOODED (WITH METAL FACE CLOSURE) CAPS, WOOD CURB, BOX COVER AT GAS AND WATER PIPE ROOF PENETRATIONS AS DETAILED. PROVIDE POSITIVE SLOPE AWAY FROM FACE COVER.
14. PROVIDE WALKWAY PROTECTION PADS AS SPECIFIED AROUND ROOF HATCHES, HVAC ROOFTOP UNITS, DOORS THAT OPEN ONTO ROOF AND AT TOP AND BOTTOM OF ALL ROOF TOP ACCESS LOCATIONS.
15. INSTALL NEW SPLASH PAN AT LOCATIONS WHERE ROOF DRAINAGE DISCHARGES ONTO A ROOF AREA. INSTALL NEW SPLASH BLOCKS WHERE ROOF DRAINAGE DISCHARGES ON GROUND.
16. ISOLATE HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR HOT STACK FLASHING AND AS DETAILED.
17. OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
18. AFTER SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL EXAMINE AND CLEAN NEW DRAIN LINES AND NEW GUTTERS OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS AND GUTTERS FLOW FREELY.
19. OWNER WILL VERIFY PROPER OPERATION OF ROOF TOP EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INOPERABLE EQUIPMENT PRIOR TO RELEASE OF RETAINAGE.
20. PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE OR OTHER CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.
21. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
22. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS.
23. GENERAL CONTRACTOR TO ENSURE ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MIN. 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE. MECHANICAL EQUIPMENT TO BE LOCATED MIN. 10'-0" FROM PERIMETER EDGE AND NO CLOSER THAN 4'-0" FROM RISE WALLS, OR ANY OTHER ROOF PENETRATION.
24. LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)
25. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.
26. GENERAL CONTRACTOR SHALL COORDINATE LOCATION AND ORIENTATION OF ROOF HATCH AND ACCESS LADDER.
27. GENERAL CONTRACTOR SHALL COORDINATE TOP OF STEEL TO TOP OF BLOCKING AND SUBSTRATE BOARD DIMENSIONS IN FIELD PRIOR TO ORDERING MATERIALS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO COORDINATE THESE DIMENSIONS.
28. GENERAL CONTRACTOR SHALL VERIFY ROOF SLOPES WILL PROPERLY DRAIN AS SHOWN. TAPERED INSULATION HATCHING SHOWN IS NOT INTENDED TO ILLUSTRATE THE ENTIRE LIMITS OF TAPERED INSULATION. ROOF AREAS NOT SLOPED BY STRUCTURE SHALL BE SLOPED WITH TAPERED INSULATION TO ACHIEVE PROPER DRAINAGE.
29. PROVIDE ONE WAY MOISTURE VENTS AT LIGHTWEIGHT CONCRETE OR GYPSUM OVER POUR AREAS AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER.
30. PAINT GAS PIPE.

7 GENERAL NOTES (EXISTING AND NEW)
N.T.S.

- NEW ROOF DRAIN
- EXIST. ROOF DRAIN
- OF OVERFLOW DRAINS
- FLANGE VENT
- PITCH PAN
- VENT THROUGH ROOF
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PIPE BOX
- GOOSE NECK VENT
- AC CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON POSTS
- ROOF HATCH
- SL SKYLIGHTS
- ANTENNA
- S SATELLITE DISH
- G GUTTER
- DS DOWNSPOUT
- WALL LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- EXISTING AREA TO REMAIN -NIC
- NEW LT. WT. CONCRETE INSULATION/ CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

6 OVERALL ROOF PLAN
1" = 20'-0"

ROOF LEGEND
N.T.S.

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713-865-0008

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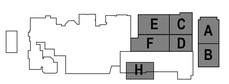


KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

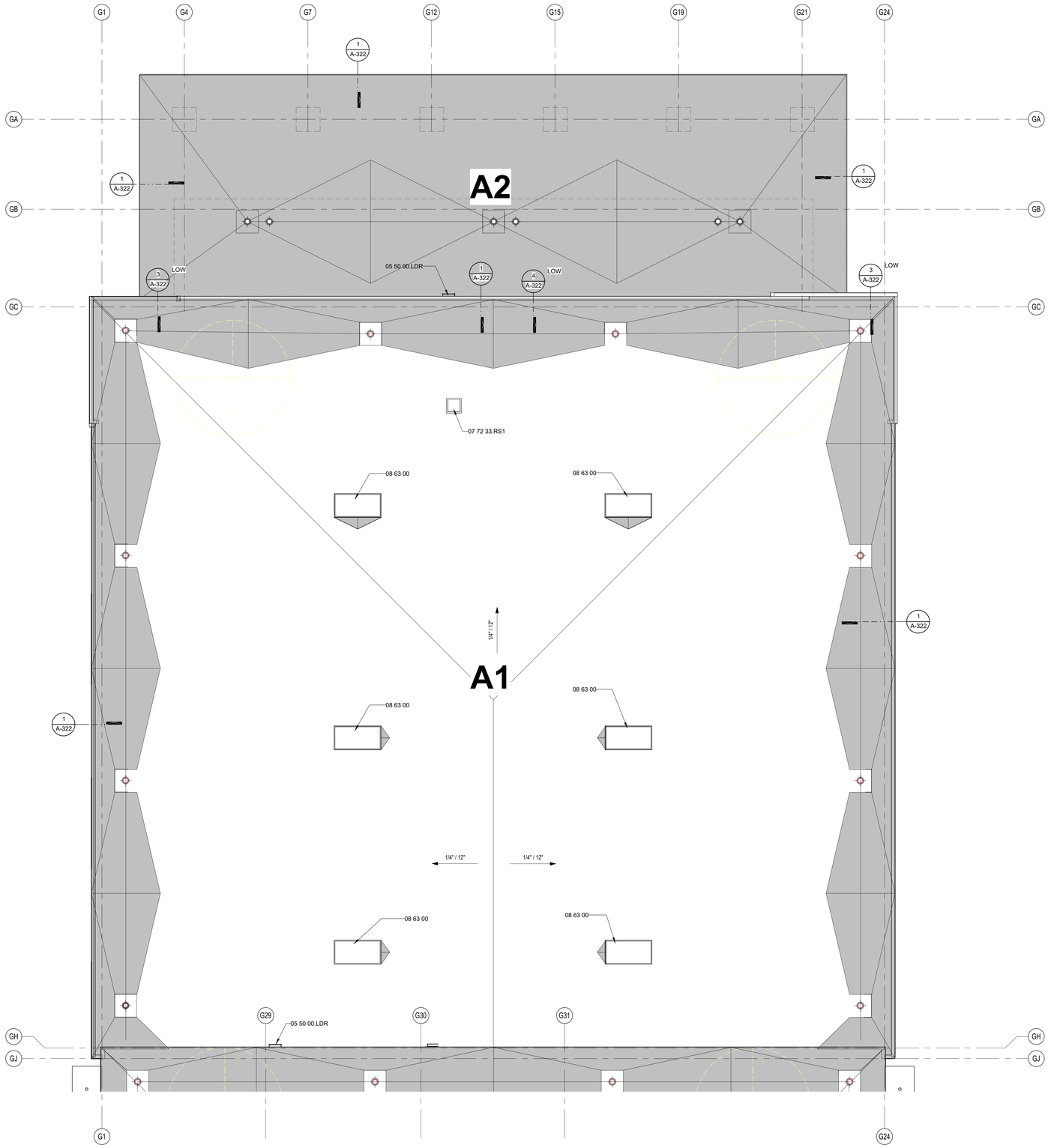
OVERALL ROOF PLAN

A-301

Plot Stamp:
12/5/2025 3:01:50 PM

0"
1"

ROOF PLAN - AREA A
A-301A
FOR BLUEBEAM LABELING/DOOR:



6 ROOF PLAN - AREA A
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.LDR	STEEL LADDER
07 72 33.RS1	ROOF HATCH
08 63 00	METAL-FRAMED SKYLIGHTS (Architectural - PBK Architects)

NEW ROOF DRAIN
EXIST. ROOF DRAIN
OF OVERFLOW DRAINS
FLANGE VENT
PITCH PAN
VENT THROUGH ROOF
CURB MOUNTED VENT
CURB MOUNTED INTAKE
GUY WIRE
POWER VENT
HEATER VENT
BOILER VENT
TURBINE VENT
PB PIPE BOX
GOOSE NECK VENT
AC CURB MOUNTED AC
SPLASH BLOCK
SPLASH PAN
A/C ON POSTS
ROOF HATCH
SL SKYLIGHTS
ANTENNA
S SATELLITE DISH
G GUTTER
DS DOWNSPOUT
WALL LADDER
EXHAUST AND SUPPLY FAN ON SINGLE CURB
RIDGE LINE
EXISTING AREA TO REMAIN -NIC
NEW LT. WT. CONCRETE INSULATION/ CRICKET
A1 ROOF AREA DESIGNATION
TAPERED LIGHT WEIGHT CONCRETE
DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
AD AREA DIVIDER
EJ EXPANSION JOINT
C CONDENSATE LINE
W WATER LINE
E ELEC. LINE
G GAS LINE

ROOF LEGEND
N.T.S.

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HOUSTON, TX
713-865-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

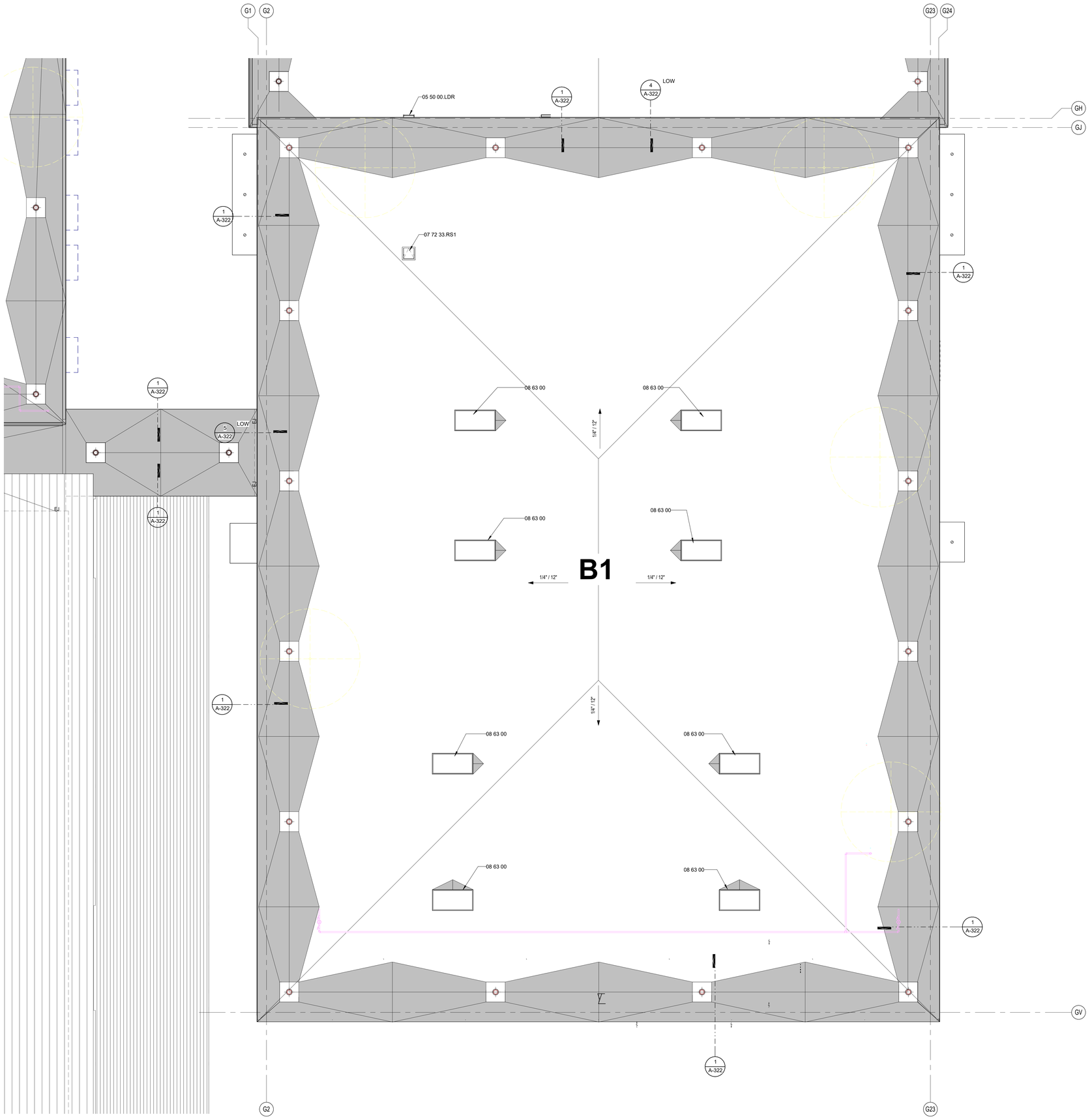
ROOF PLAN - AREA A

A-301A

Plot Stamp:
12/5/2025 3:01:54 PM

ROOF PLAN - AREA B
A-301B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



6 ROOF PLAN - AREA B
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.LDR	STEEL LADDER
07 72 33.RS1	ROOF HATCH
08 63 00	METAL-FRAMED SKYLIGHTS (Architectural - PBK Architects)

NEW ROOF DRAIN
EXIST. ROOF DRAIN
OF OVERFLOW DRAINS
FLANGE VENT
PITCH PAN
VENT THROUGH ROOF
CURB MOUNTED VENT
CURB MOUNTED INTAKE
GUY WIRE
POWER VENT
HEATER VENT
BOILER VENT
TURBINE VENT
PIPE BOX
GOOSE NECK VENT
AC CURB MOUNTED AC
SPLASH BLOCK
SPLASH PAN
A/C ON POSTS
ROOF HATCH
SL SKYLIGHTS
ANTENNA
SATELLITE DISH
S
G GUTTER
DS DOWNSPOUT
WALL LADDER
EXHAUST AND SUPPLY FAN ON SINGLE CURB
RIDGE LINE
EXISTING AREA TO REMAIN -NIC
NEW LT. WT. CONCRETE INSULATION/ CRICKET
A1 ROOF AREA DESIGNATION
TAPERED LIGHT WEIGHT CONCRETE
DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
AD AREA DIVIDER
EJ EXPANSION JOINT
C CONDENSATE LINE
W WATER LINE
E ELEC. LINE
G GAS LINE

ROOF LEGEND
N.T.S.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

ROOF PLAN - AREA B

A-301B

Plot Stamp:
12/5/2025 3:02:00 PM

ROOF PLAN - AREA C
A-301C
FOR BLUEBEAM LABELING/OCR:

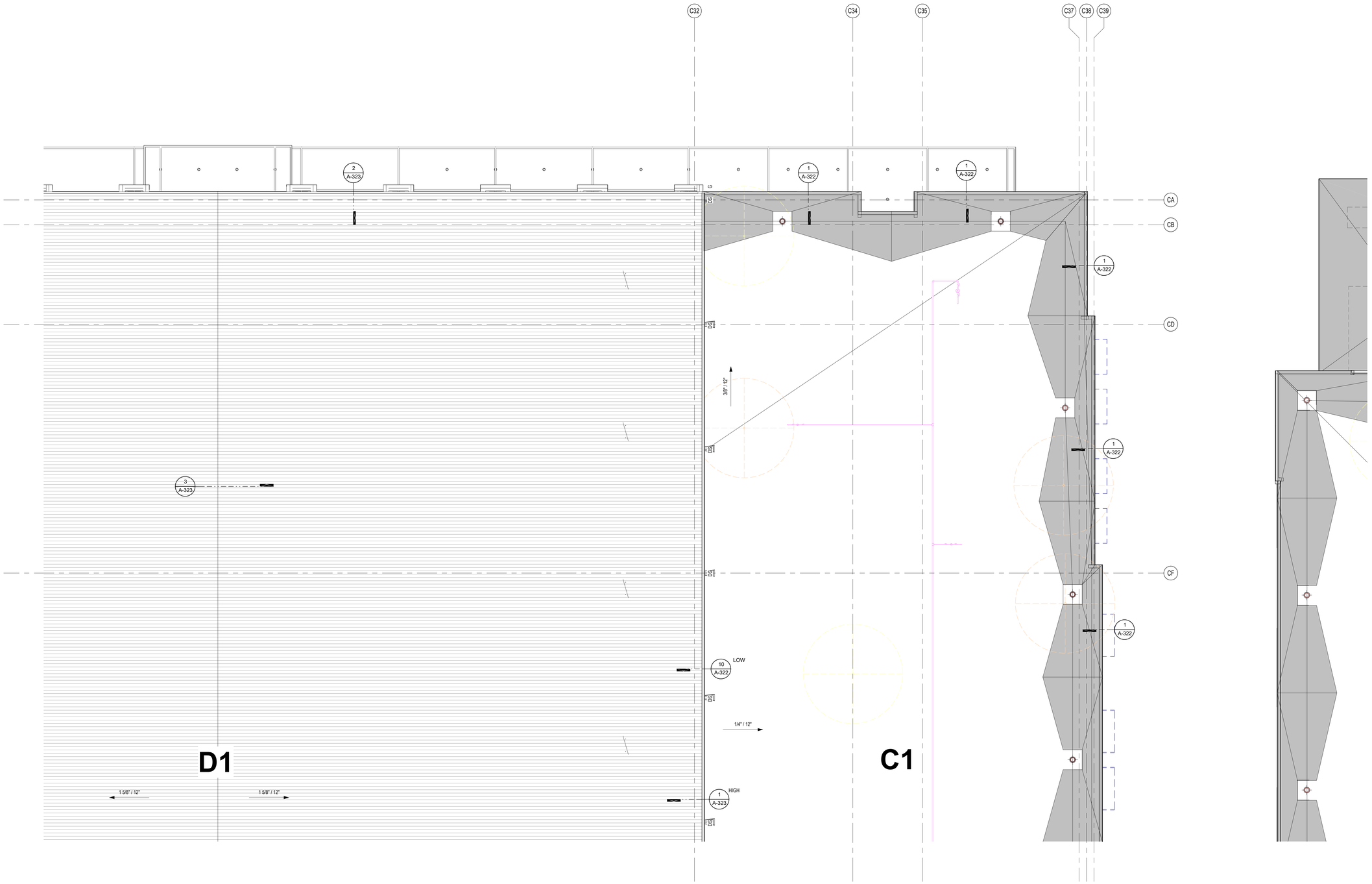
0"
1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION

NEW ROOF DRAIN	GOOSE NECK VENT	EXHAUST AND SUPPLY FAN ON SINGLE CURB
EXIST. ROOF DRAIN	CURB MOUNTED A/C	RIDGE LINE
OF OVERFLOW DRAINS	SPLASH BLOCK	EXISTING AREA TO REMAIN -NIC
FLANGE VENT	SPLASH PAN	
PITCH PAN	A/C ON POSTS	NEW LT. WT. CONCRETE INSULATION/ CRICKET
VENT THROUGH ROOF	ROOF HATCH	A1 ROOF AREA DESIGNATION
CURB MOUNTED VENT	SKYLIGHTS	TAPERED LIGHT WEIGHT CONCRETE
CURB MOUNTED INTAKE	ANTENNA	DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
GUY WIRE	SATELLITE DISH	AD AREA DIVIDER
POWER VENT	S GUTTER	EJ EXPANSION JOINT
HEATER VENT	G DOWNSPOUT	C CONDENSATE LINE
BOILER VENT	DS WALL LADDER	W WATER LINE
TURBINE VENT		E ELEC. LINE
PIPE BOX		G GAS LINE

ROOF LEGEND
N.T.S.



6 ROOF PLAN - AREA C
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:02:04 PM

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

ROOF PLAN - AREA C

A-301C

0"
1"

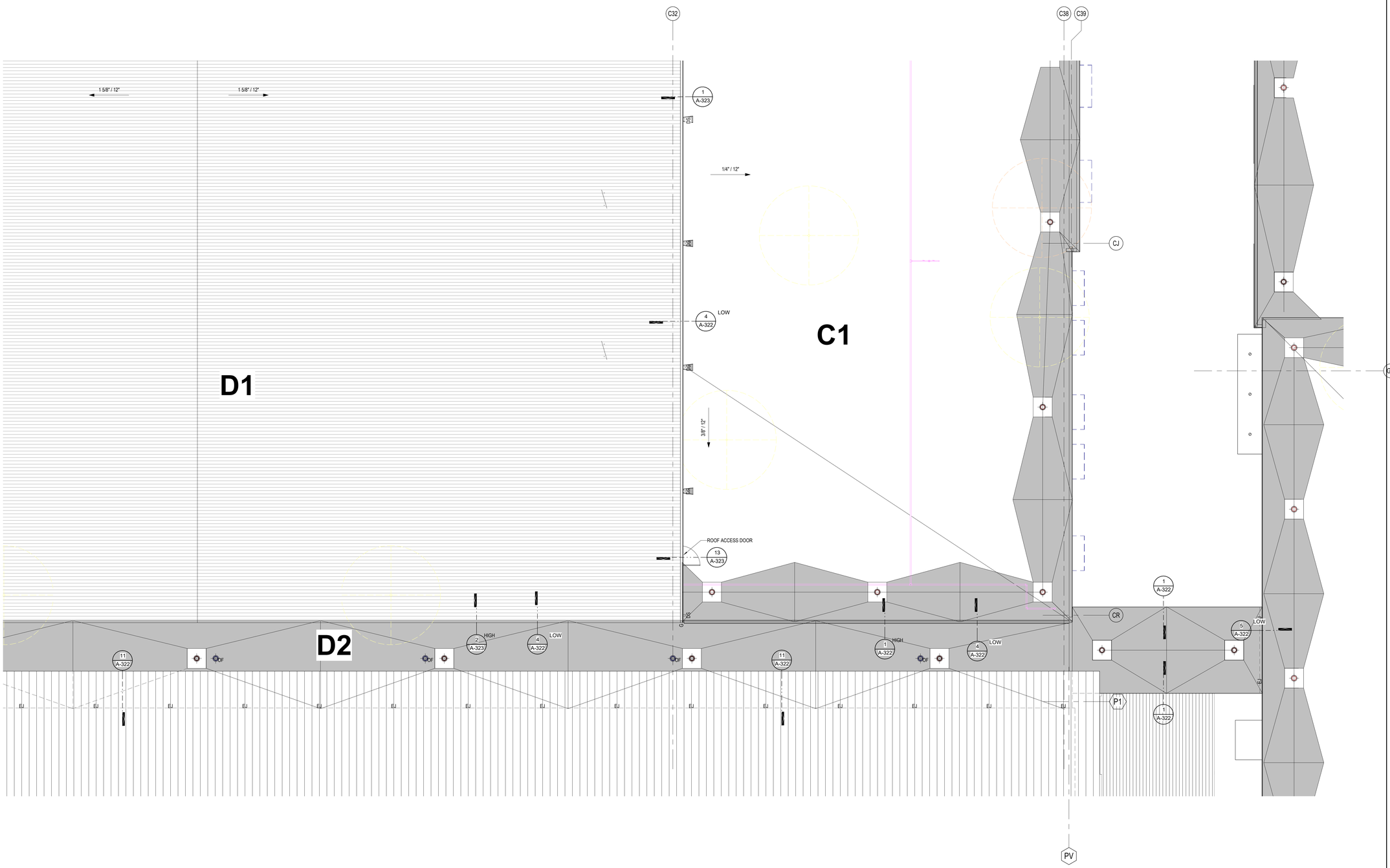
ROOF PLAN - AREA D
A-301D
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

NUMBER	DESCRIPTION

- NEW ROOF DRAIN
- EXIST. ROOF DRAIN
- OF OVERFLOW DRAINS
- FLANGE VENT
- PITCH PAN
- VENT THROUGH ROOF
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PB PIPE BOX
- GOOSE NECK VENT
- AC CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON POSTS
- ROOF HATCH
- SL SKYLIGHTS
- ANTENNA
- SATELLITE DISH
- S
- G GUTTER
- DS DOWNSPOUT
- WALL LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- EXISTING AREA TO REMAIN -NIC
- NEW LT. WT. CONCRETE INSULATION/ CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

ROOF LEGEND
N.T.S.



6 ROOF PLAN - AREA D
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:02:09 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

ROOF PLAN - AREA D

A-301D

0"
1"

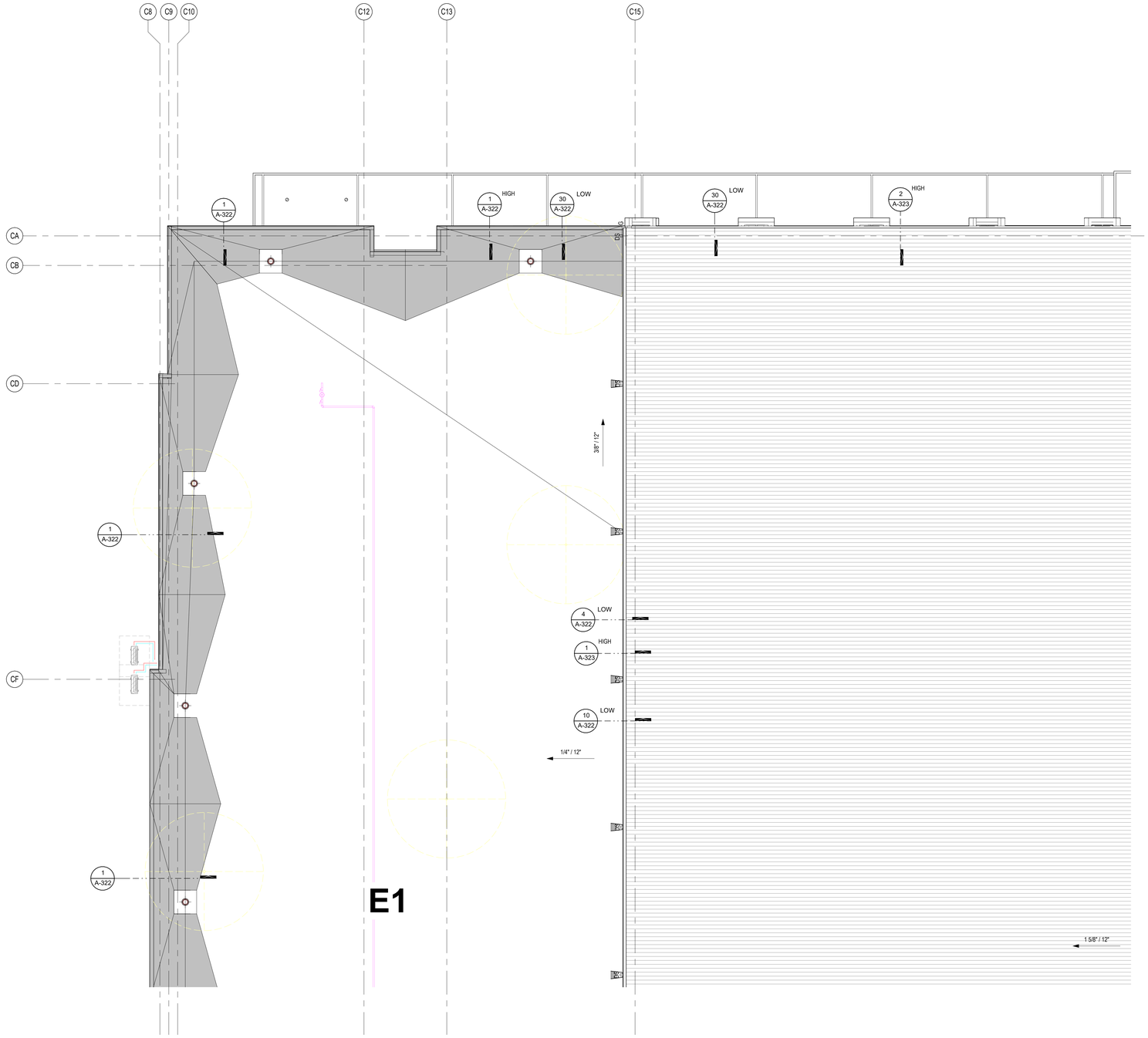
ROOF PLAN - AREA E
A-301E
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

NUMBER	DESCRIPTION

- NEW ROOF DRAIN
- EXIST. ROOF DRAIN
- OF OVERFLOW DRAINS
- FLANGE VENT
- PITCH PAN
- VENT THROUGH ROOF
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PB PIPE BOX
- GOOSE NECK VENT
- AC CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON POSTS
- ROOF HATCH
- SL SKYLIGHTS
- ANTENNA
- SATELLITE DISH
- S
- G GUTTER
- DS DOWNSPOUT
- WALL LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- EXISTING AREA TO REMAIN -NIC
- NEW LT. WT. CONCRETE INSULATION/ CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

ROOF LEGEND
N.T.S.



E1

6 ROOF PLAN - AREA E
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:02:13 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

ROOF PLAN - AREA E

A-301E

0"
1"

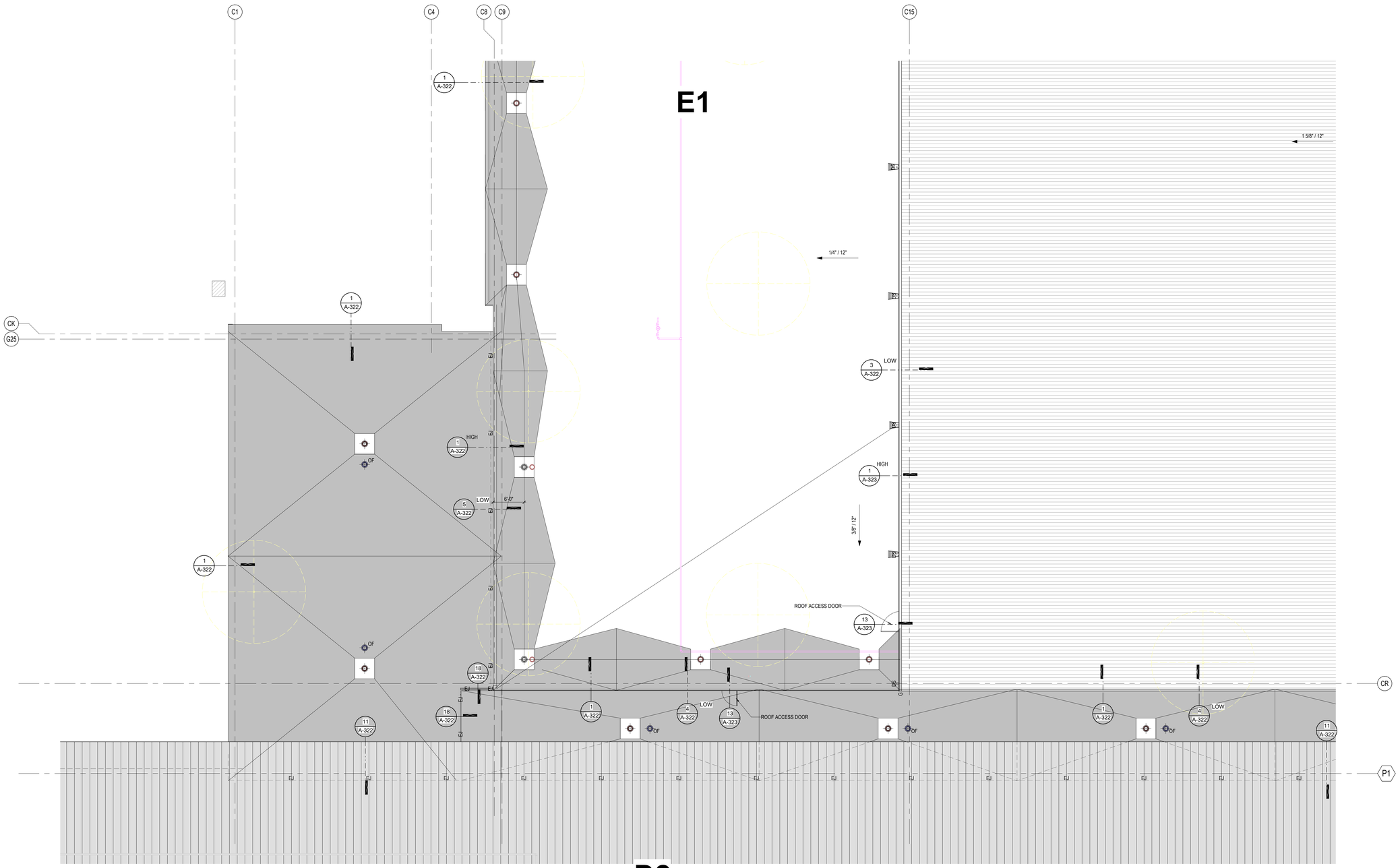
ROOF PLAN - AREA F
A-301F
FOR BLUEBEAM LABELING/OCR:

KEYNOTE LEGEND

NUMBER	DESCRIPTION

- NEW ROOF DRAIN
- EXIST. ROOF DRAIN
- OF OVERFLOW DRAINS
- FLANGE VENT
- PITCH PAN
- VENT THROUGH ROOF
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PB PIPE BOX
- GOOSE NECK VENT
- AC CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON POSTS
- ROOF HATCH
- SL SKYLIGHTS
- ANTENNA
- SATELLITE DISH
- S
- G GUTTER
- DS DOWNSPOUT
- WALL LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- EXISTING AREA TO REMAIN -NIC
- NEW LT. WT. CONCRETE INSULATION/ CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

ROOF LEGEND
N.T.S.



6 ROOF PLAN - AREA F
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:02:17 PM

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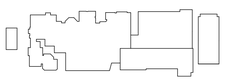
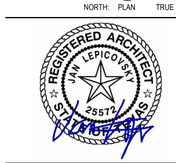
1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

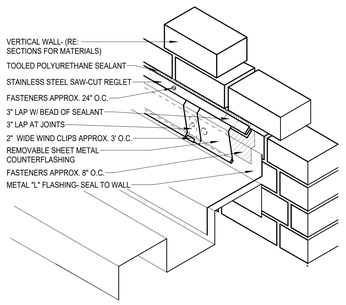
CHECKED BY: ES
DRAWN BY: DAS

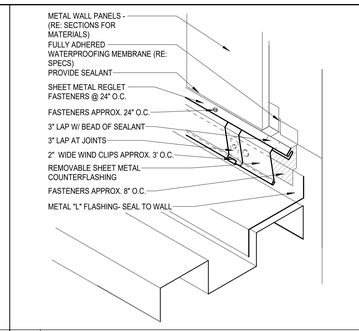
ROOF PLAN - AREA F

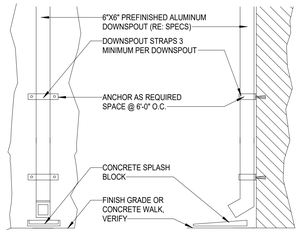
A-301F

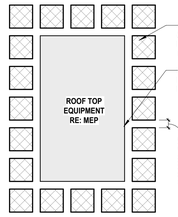
ROOF DETAILS
A-322
FOR BLUEBEAM LABELING/DOOR:

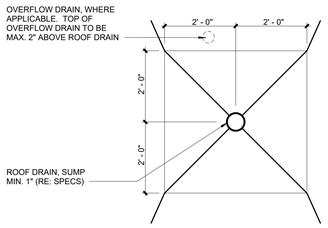
0"
1"

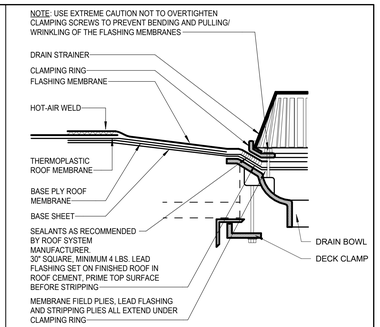




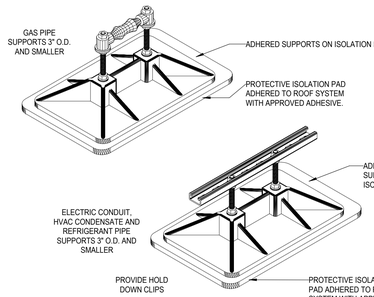




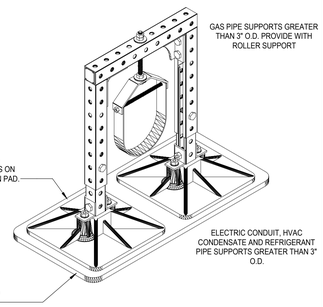




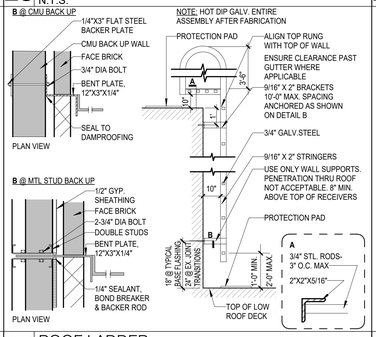
30 AVADEK @ BRICK
N.T.S.



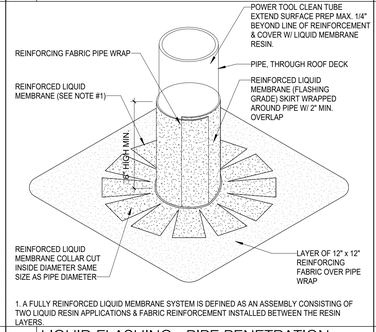
29 AVADEK @ PANELS
N.T.S.



28 DOWNSPOUT
N.T.S.

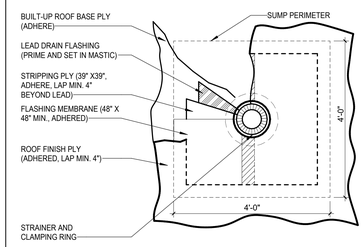


27 WALK PADS
N.T.S.

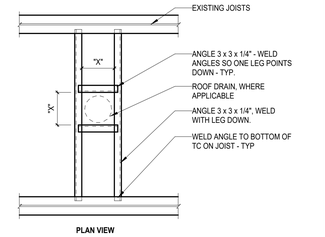


1. A FULLY REINFORCED LIQUID MEMBRANE SYSTEM IS DEFINED AS AN ASSEMBLY CONSISTING OF TWO LIQUID RESIN APPLICATIONS & FABRIC REINFORCEMENT INSTALLED BETWEEN THE RESIN LAYERS.

26 ROOF DRAIN SUMP PLAN
N.T.S.

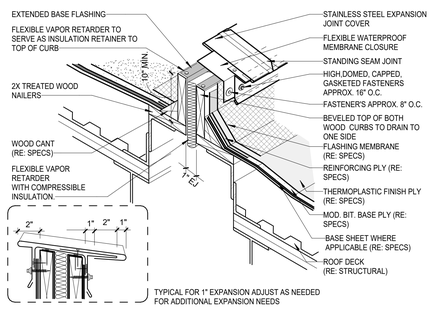


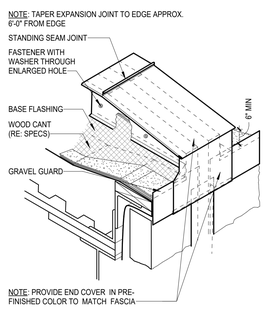
25 ROOF DRAIN SECTION
N.T.S.



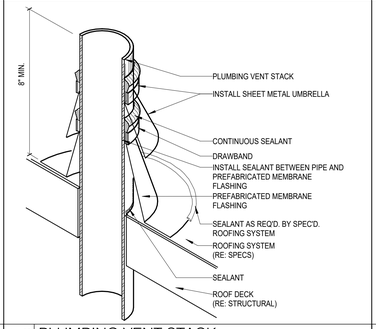
NOTE: INSTALL BRACING PRIOR TO INSTALLATION OF NEW EQUIPMENT CURBS. CONTRACTOR TO VERIFY DIMENSION "X". PROVIDE ANGLE SUPPORTS AT ALL EQUIPMENT CURBS.

24 PIPE SUPPORTS
N.T.S.

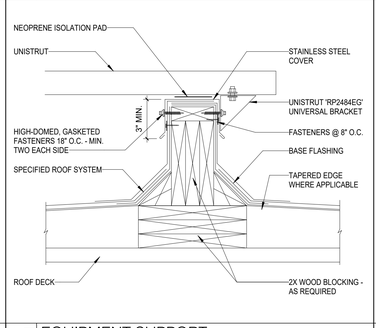




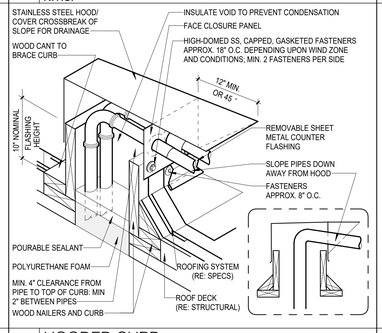
22 ROOF LADDER
N.T.S.



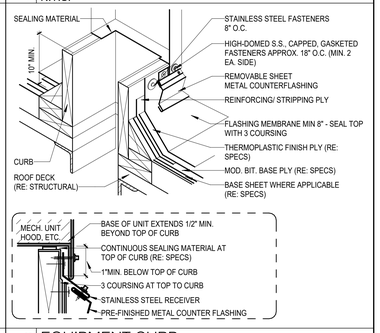
21 LIQUID FLASHING - PIPE PENETRATION
N.T.S.



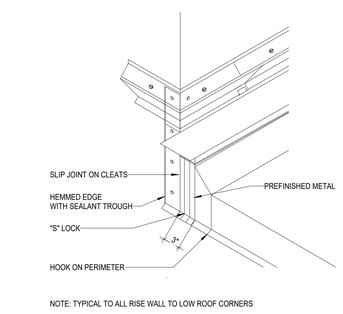
20 ROOF DRAIN PLAN
N.T.S.



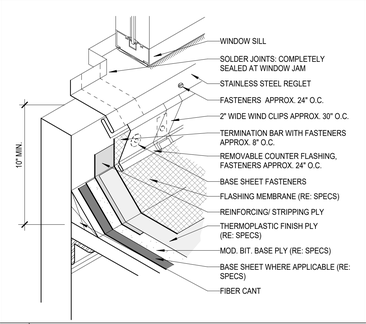
19 EQUIP. CURB / SUPPORT / DRAIN FRAMING
N.T.S.



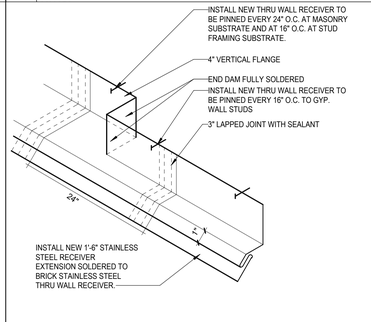
18 RAISED EXPANSION JOINT WITH COVER
N.T.S.



16 PLUMBING VENT STACK
N.T.S.



15 EQUIPMENT SUPPORT
N.T.S.



14 HOODED CURB
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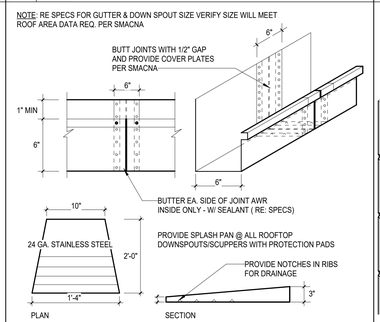
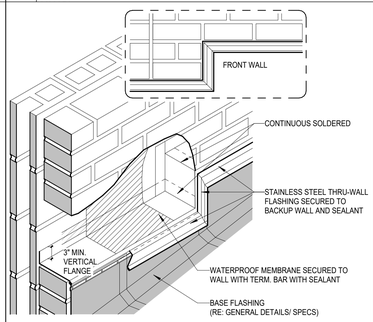
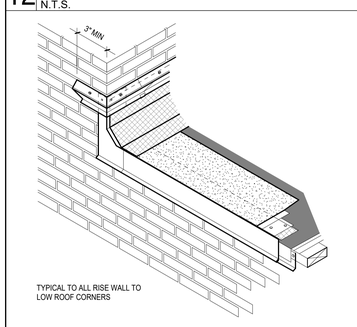


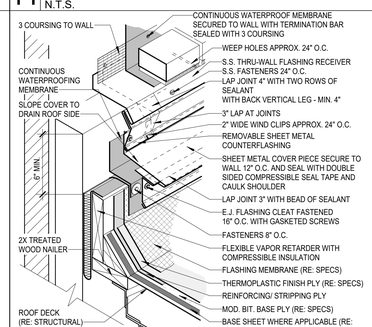
13 EQUIPMENT CURB
N.T.S.



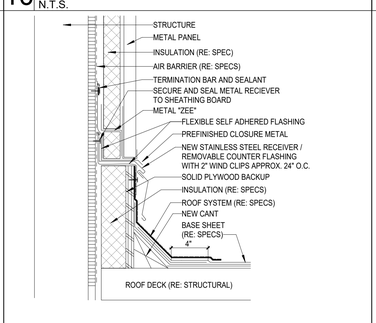
12 END WALL @ EJ
N.T.S.



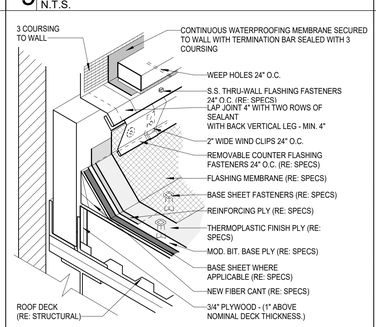
11 BASE FLASHING @ EJ W/ WALL PANEL
N.T.S.



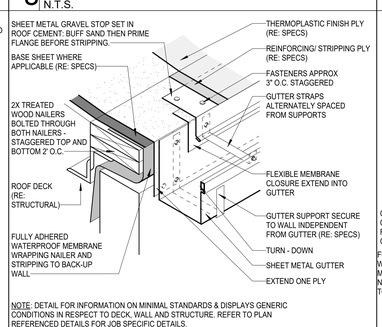
10 BASE FLASHING @ SILL
N.T.S.



9 BRICK-PLASTER THRU-WALL
N.T.S.

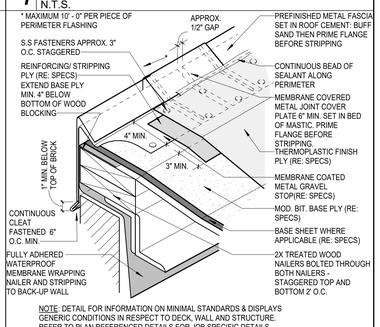


8 GUTTER JOINT AND SPLASH PANS
N.T.S.



NOTE: DETAIL FOR INFORMATION ON MINIMAL STANDARDS & DISPLAYS GENERIC CONDITIONS IN RESPECT TO DECK, WALL AND STRUCTURE. REFER TO PLAN REFERENCED DETAILS FOR JOB SPECIFIC DETAILS.

7 THRU-WALL FLASHING
N.T.S.



NOTE: DETAIL FOR INFORMATION ON MINIMAL STANDARDS & DISPLAYS GENERIC CONDITIONS IN RESPECT TO DECK, WALL AND STRUCTURE. REFER TO PLAN REFERENCED DETAILS FOR JOB SPECIFIC DETAILS.

6 END WALL
N.T.S.

5 BASE FLASHING @ EJ
N.T.S.

4 BASE FLASHING @ PANEL
N.T.S.

3 BASE FLASHING
N.T.S.

2 ROOF EDGE W/ GUTTER
N.T.S.

1 ROOF EDGE
N.T.S.

Plot Stamp:
12/5/2025 3:02:19 PM

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BUILDING REAL POTENTIAL

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
ERIC O'SULLIVAN
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

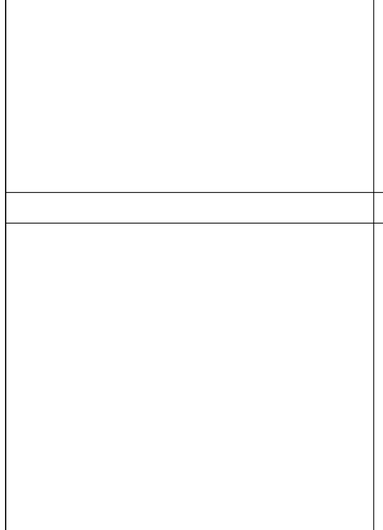
CHECKED BY: ES
DRAWN BY: DAS

ROOF DETAILS

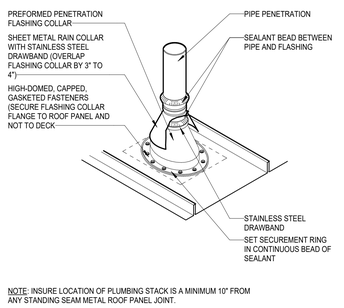
A-322

0"
1"

ROOF DETAILS
A-323
FOR BLUEBEAM LABELING/DOOR:

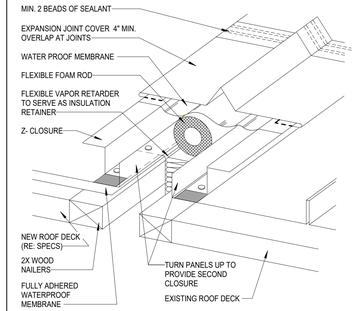


6 (METAL) - EQUIPMENT CURB
N.T.S.

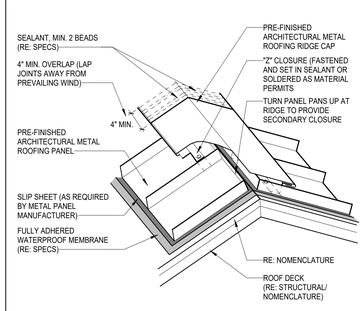


NOTE: INSURE LOCATION OF PLUMBING STACK IS A MINIMUM 10" FROM ANY STANDING SEAM METAL ROOF PANEL JOINT.

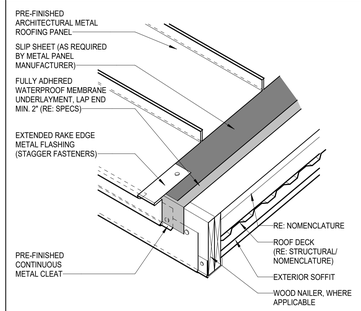
5 (METAL) - PLUMBING STACK
N.T.S.



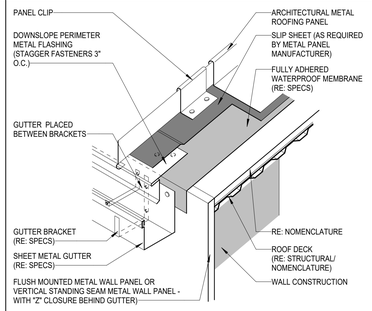
4 (METAL) EXPANSION JOINT
N.T.S.



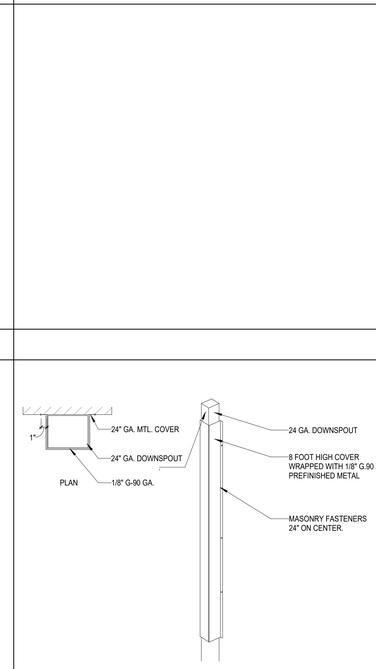
3 (METAL) RIDGE
N.T.S.



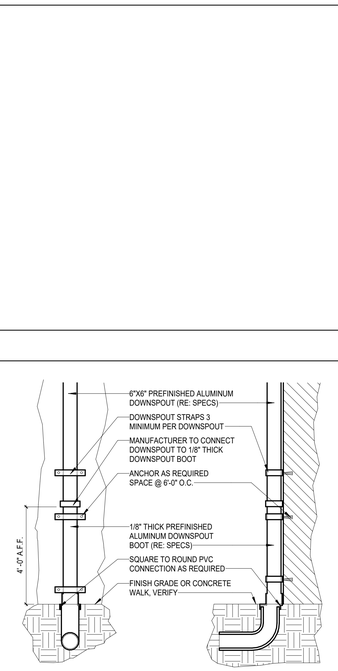
2 (METAL) EDGE W/ RAKE
N.T.S.



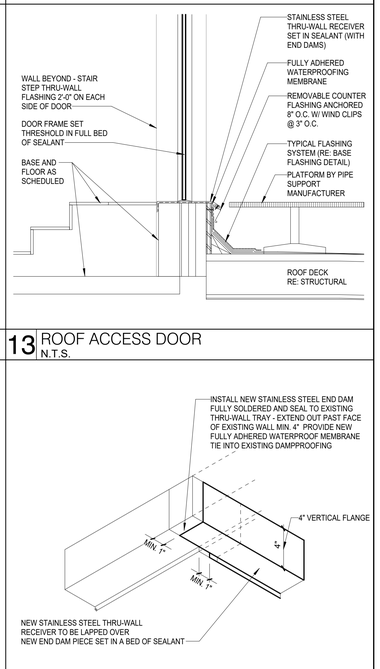
1 (METAL) ROOF EDGE W/ GUTTER
N.T.S.



9 ROOFING - DOWNSPOUT PROTECTION
N.T.S.



8 ROOFING - DOWNSPOUT TO BOOT
N.T.S.



7 ROOFING - THRU-WALL TRAY
N.T.S.

13 ROOF ACCESS DOOR
N.T.S.

Plot Stamp:
12/5/2025 3:02:21 PM

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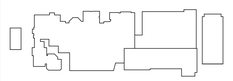
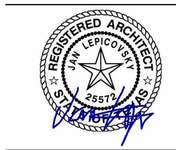
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: ES
DRAWN BY: DAS

ROOF DETAILS

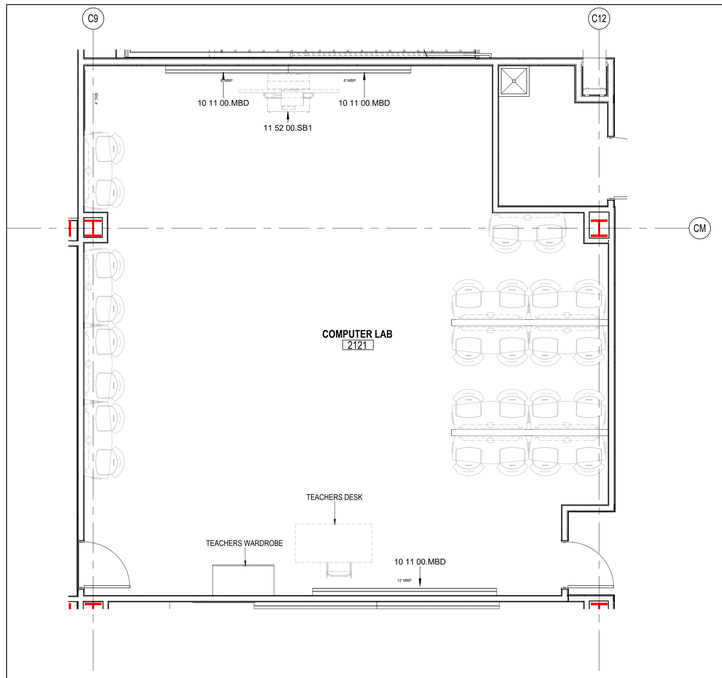
A-323

0"
1"

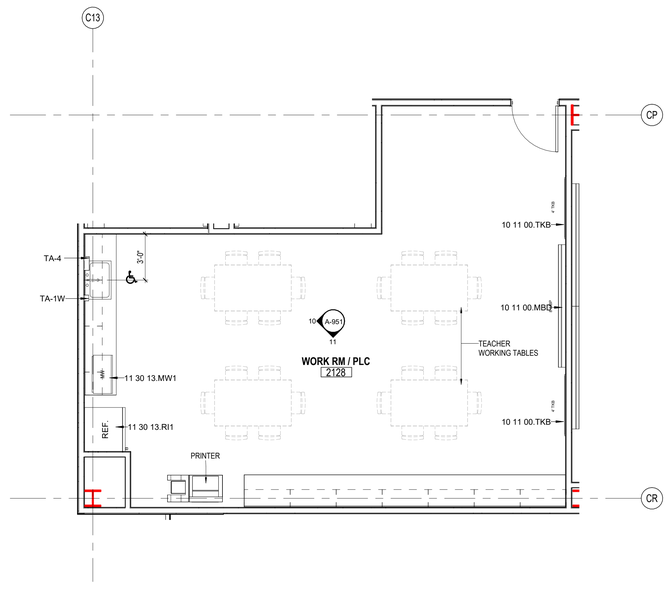
ENLARGED FLOOR PLANS
A-401
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

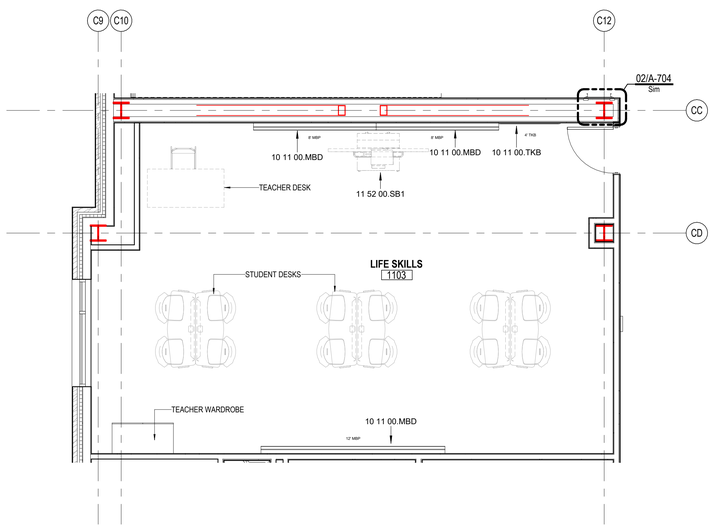
NUMBER	DESCRIPTION
10 11 00.MBD	12' MARKERBOARD
10 11 00.SDU	HORIZONTAL-SLIDING VISUAL DISPLAY UNITS
10 11 00.TKB	TACKBOARD
11 30 13.CD1	CLOTHES DRYER
11 30 13.CW1	CLOTHES WASHER
11 30 13.MW1	COUNTERTOP) MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



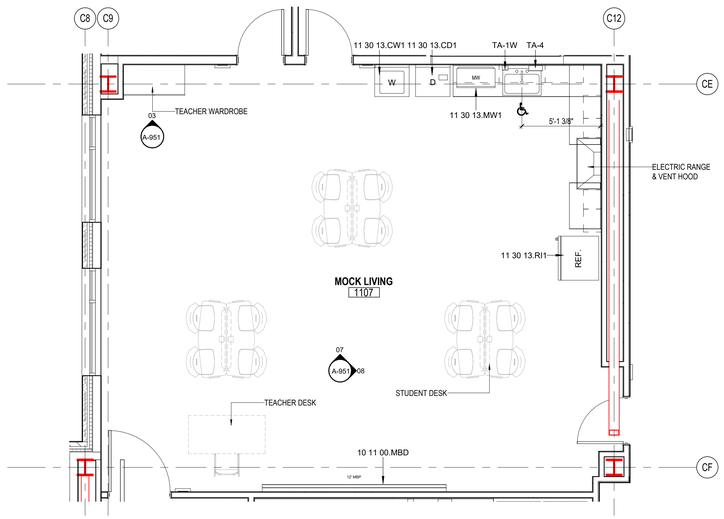
05 COMPUTER LAB - 2121
1/4" = 1'-0"



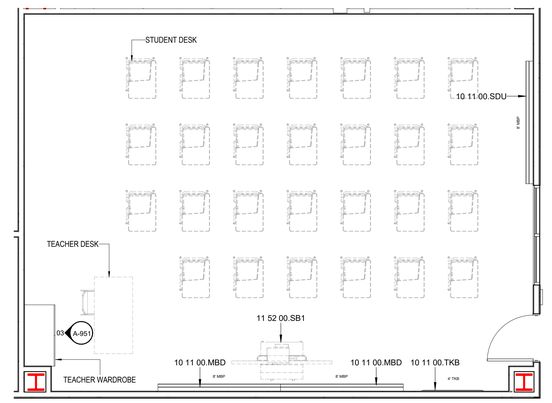
04 LEVEL 2 - AREA F FLOOR PLAN - WORK ROOM / PLACE
1/4" = 1'-0"



03 LEVEL 1 - AREA E FLOOR PLAN - TYPICAL LIFE SKILLS
1/4" = 1'-0"



02 LEVEL 1 - AREA E FLOOR PLAN - MOCK LIVING
1/4" = 1'-0"



01 TYPICAL CLASSROOM
1/4" = 1'-0"

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED FLOOR PLANS

A-401

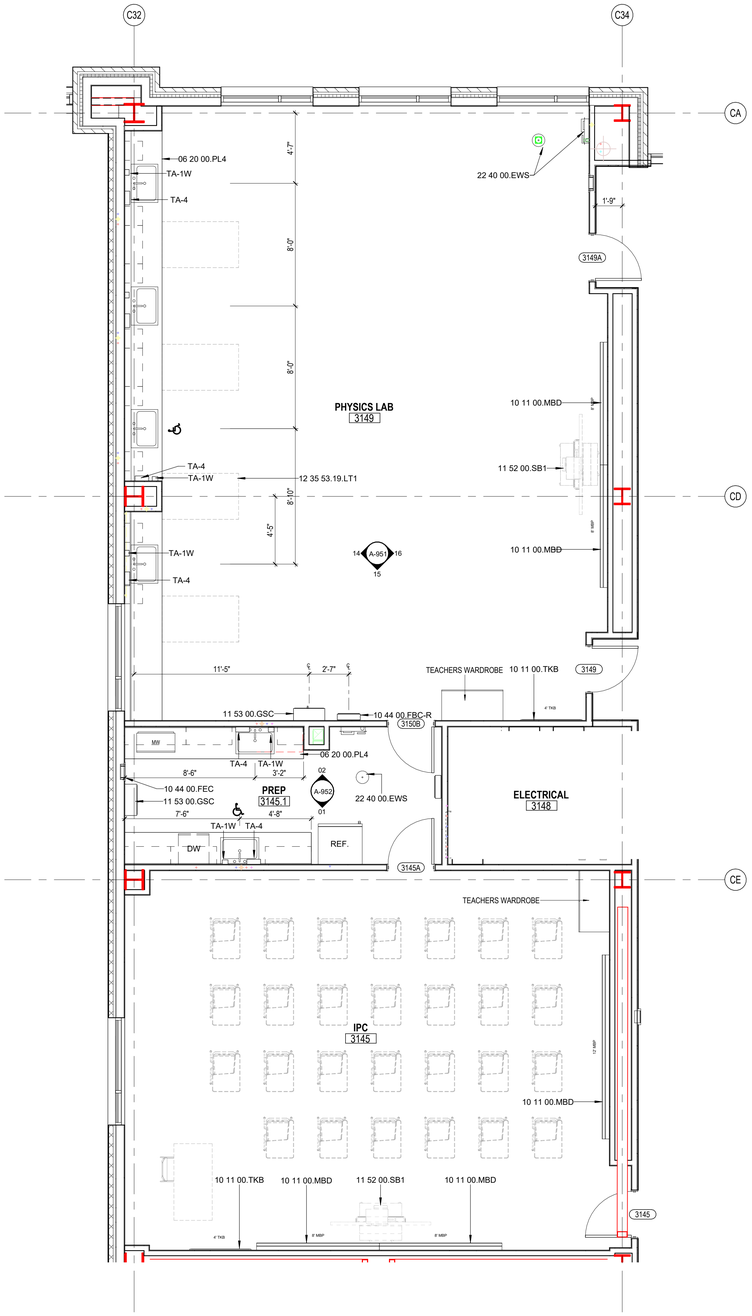
Plot Stamp:
12/5/2025 3:02:25 PM

0"
1"

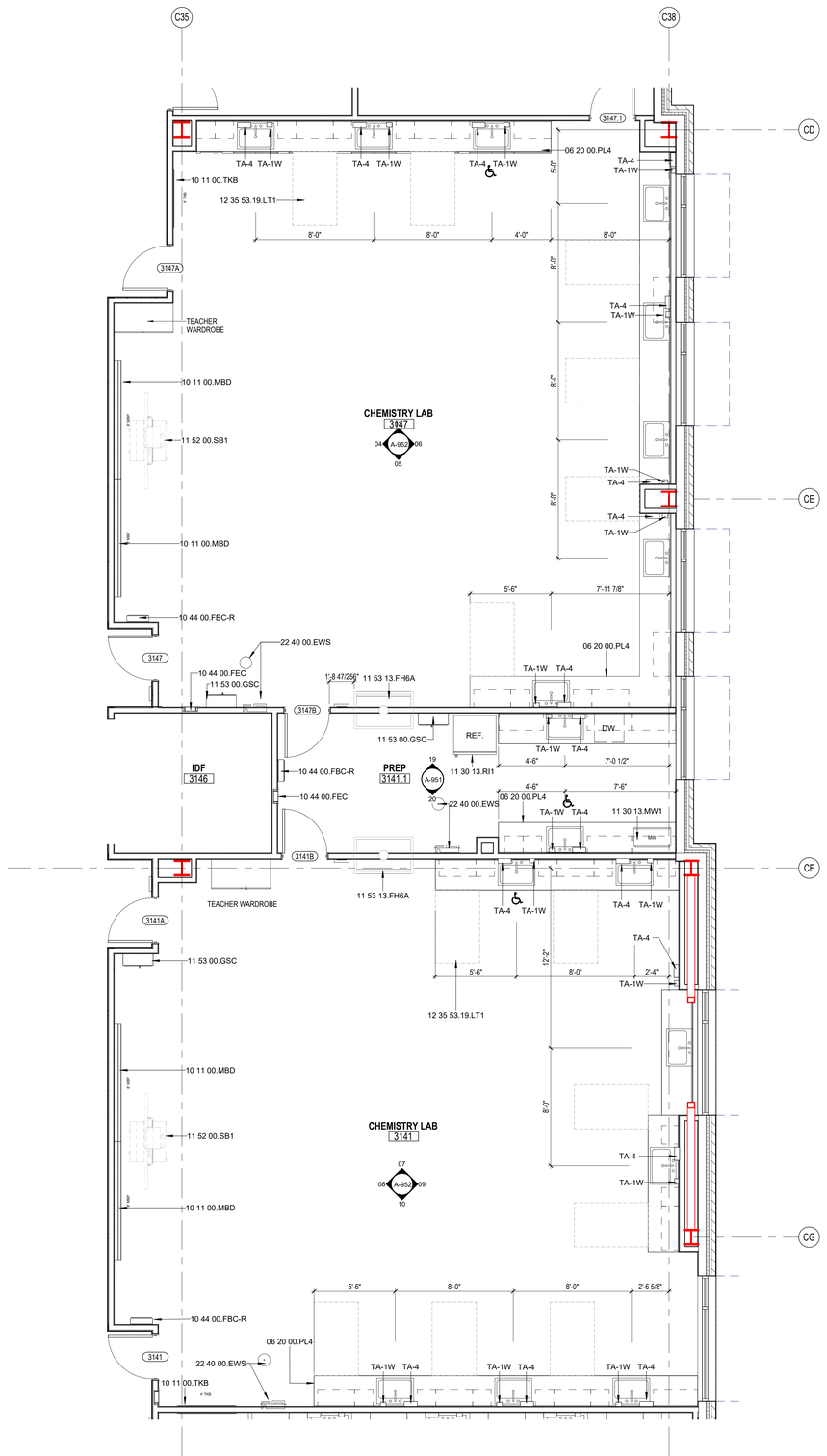
ENLARGED FLOOR PLANS
A-402
FOR BLUEBEAM LABELING/OCR:

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	(OFOI)
11 53 13.FH6A	FUME HOOD, 6 FOOT LENGTH ACCESSIBLE
12 35 53.19.LT1	LABORATORY TABLE, TYPE 1
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



01 LEVEL 3 - AREA C FLOOR PLAN - PHYSICS LAB 3149 & IPC 3145
1/4" = 1'-0"



02 LEVEL 3 - AREA C FLOOR PLAN - CHEMISTRY LAB 3147 & 3141
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:02:27 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED FLOOR PLANS

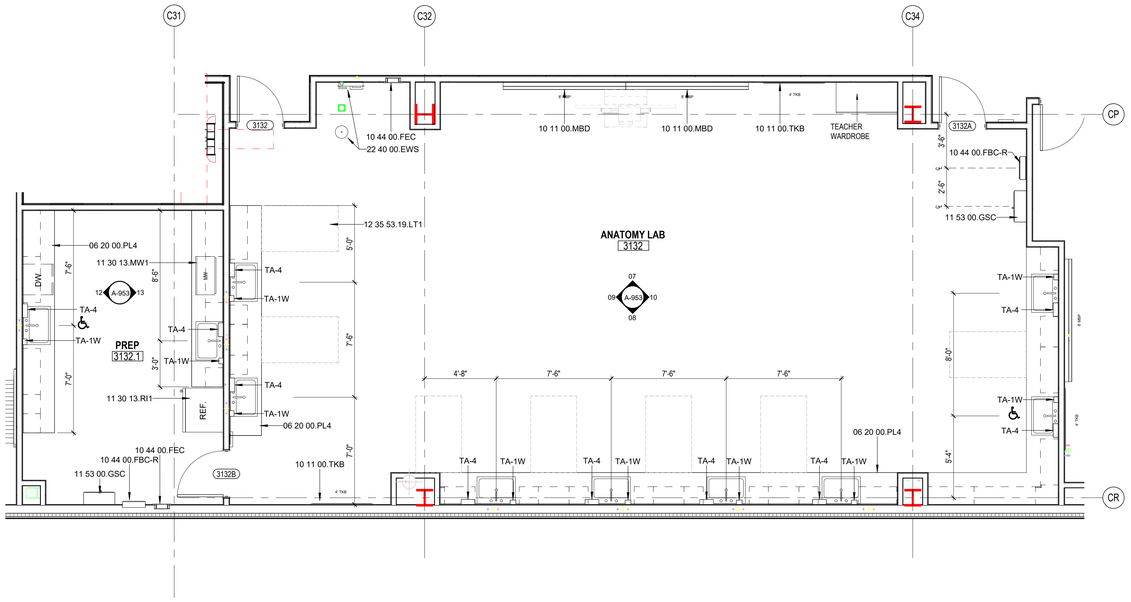
A-402

ENLARGED FLOOR PLANS
A-403
FOR BLUEBEAM LABELING/DOOR:

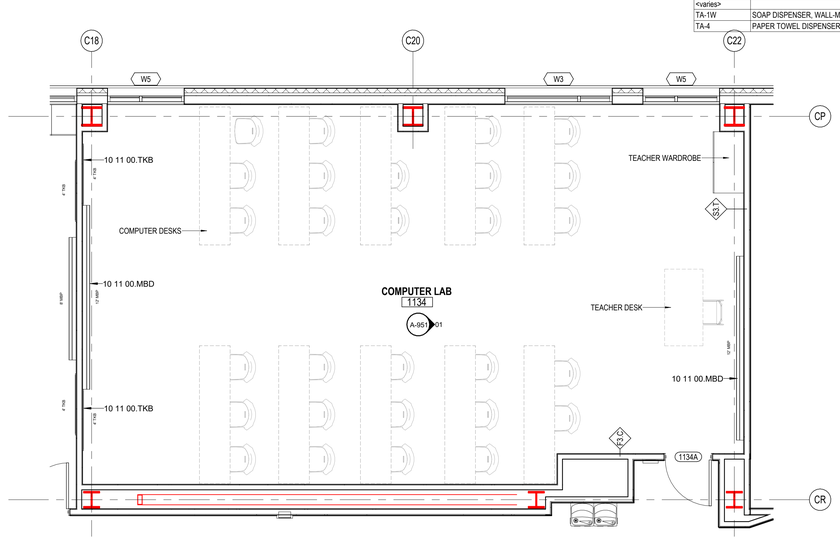
0"
1"

KEYNOTE LEGEND

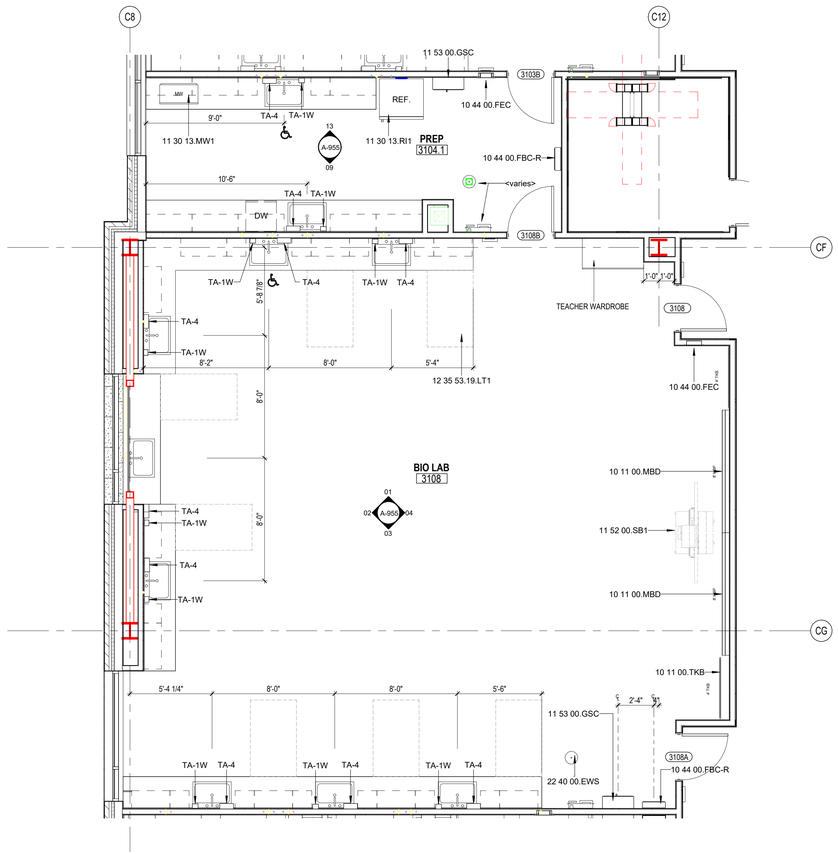
NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	(OFOI)
12 35 53.19.LT1	LABORATORY TABLE, TYPE 1
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
<varies>	
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



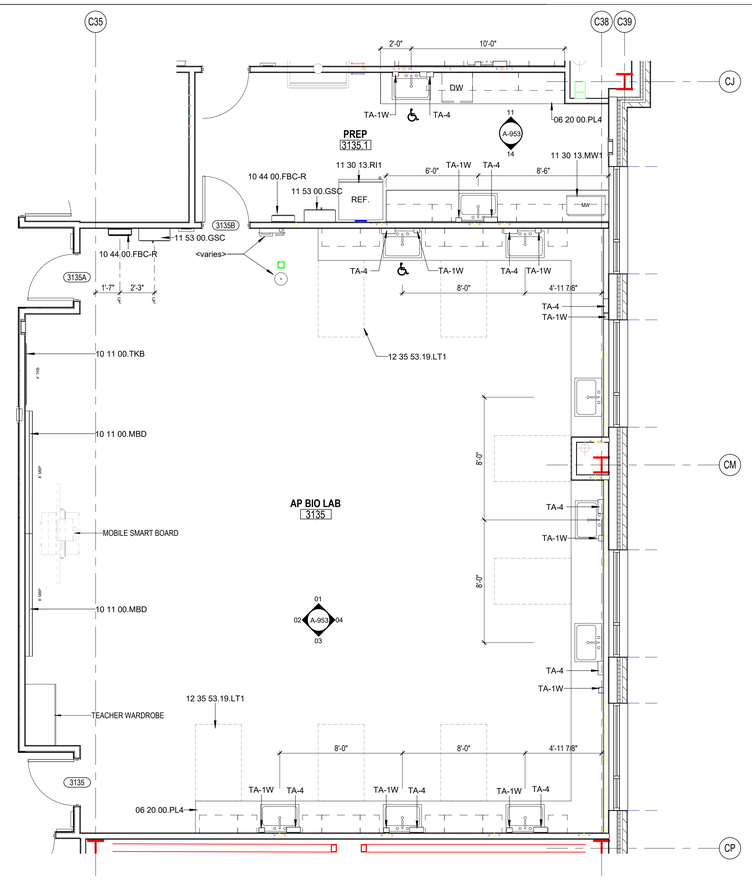
04 LEVEL 3 - AREA D FLOOR PLAN - ANATOMY LAB 3132
1/4" = 1'-0"



03 COMPUTER LAB - 1134
1/4" = 1'-0"



02 LEVEL 3 - AREA E FLOOR PLAN - BIO LAB 3108
1/4" = 1'-0"



01 LEVEL 3 - AREA D FLOOR PLAN - AP BIO LAB 3135
1/4" = 1'-0"

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713-865-0008

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

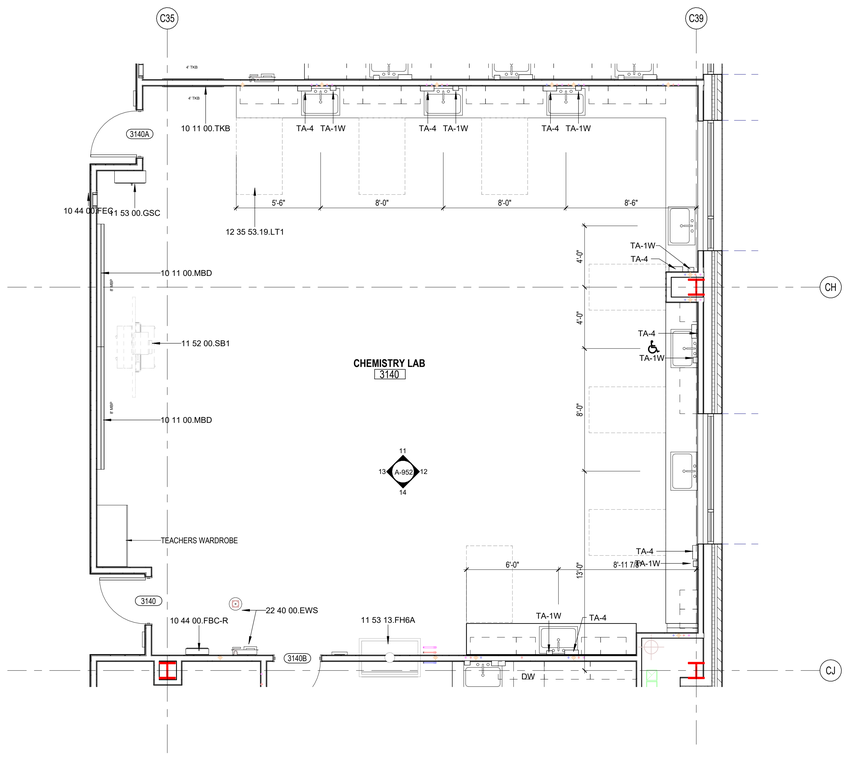
ENLARGED FLOOR PLANS

A-403

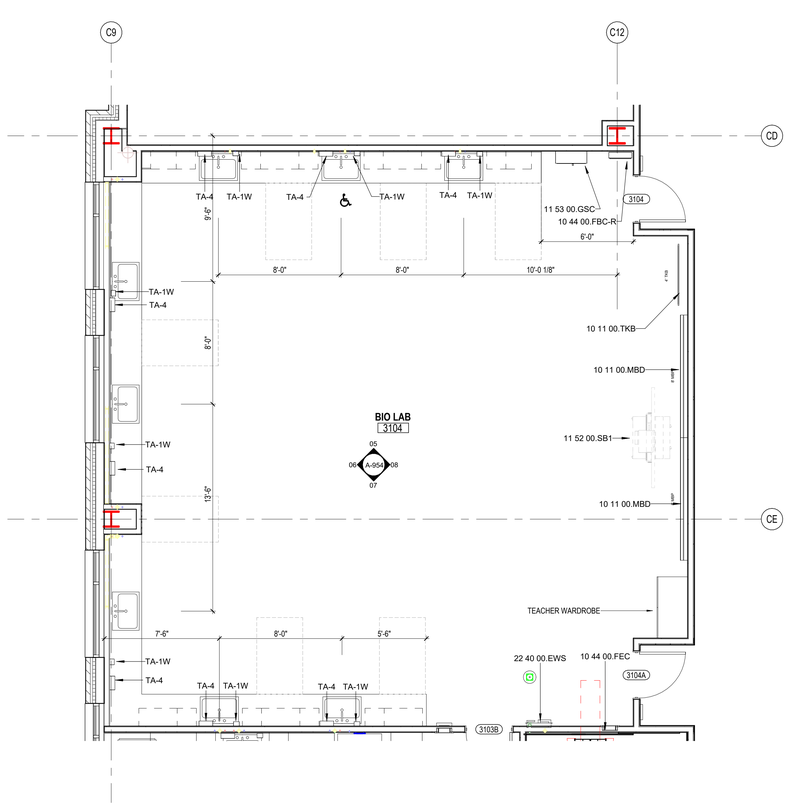
Plot Stamp:
12/5/2025 3:02:31 PM

ENLARGED FLOOR PLANS
A-404
FOR BLUEBEAM LABELING/OCR:

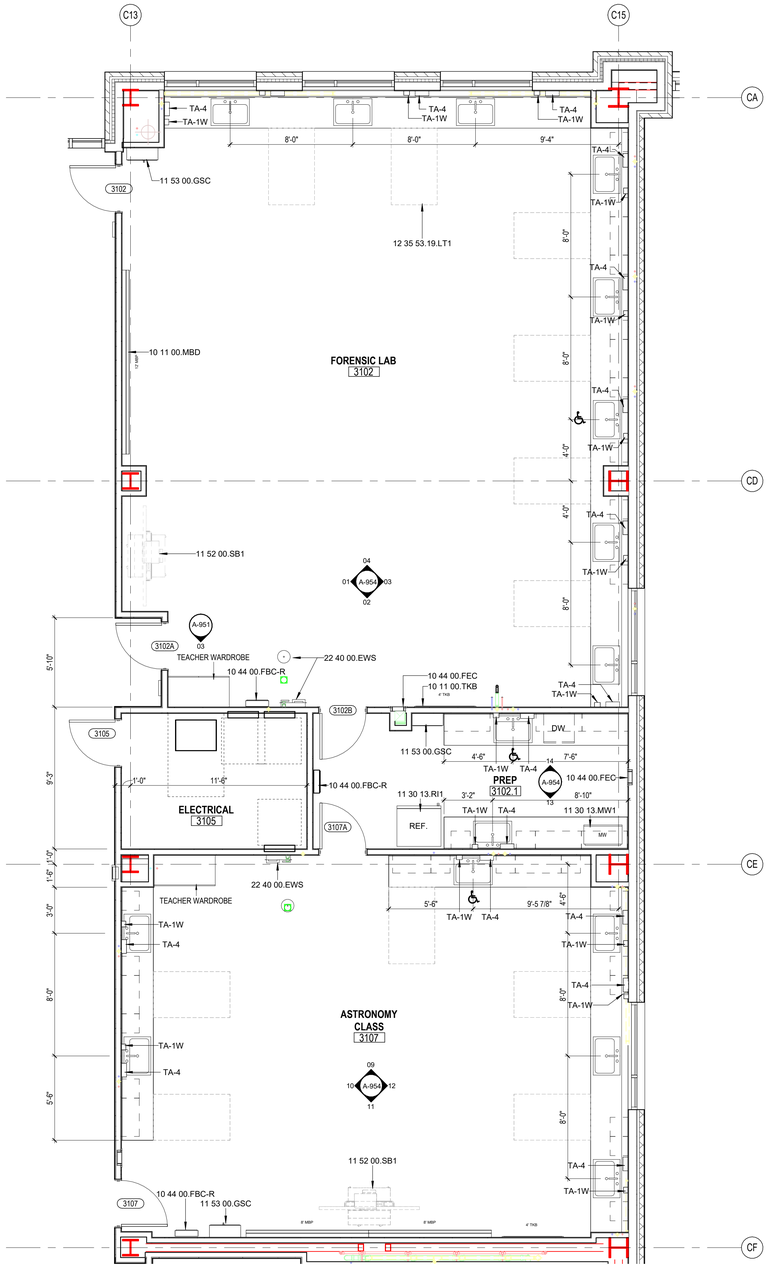
0"
1"



03 LEVEL 3 - AREA C FLOOR PLAN - CHEMISTRY LAB 3140
1/4" = 1'-0"



02 LEVEL 3 - AREA E FLOOR PLAN - BIO LAB 3104
1/4" = 1'-0"



01 LEVEL 3 - AREA E FLOOR PLAN - FORENSIC LAB 3102 / ASTRONOMY CLASS 3107
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 30 13.MW1	COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	(OFOI)
11 53 13.FH6A	FUME HOOD, 6 FOOT LENGTH ACCESSIBLE
12 35 53.19.LT1	LABORATORY TABLE, TYPE 1
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL

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713-865-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED FLOOR PLANS

A-404

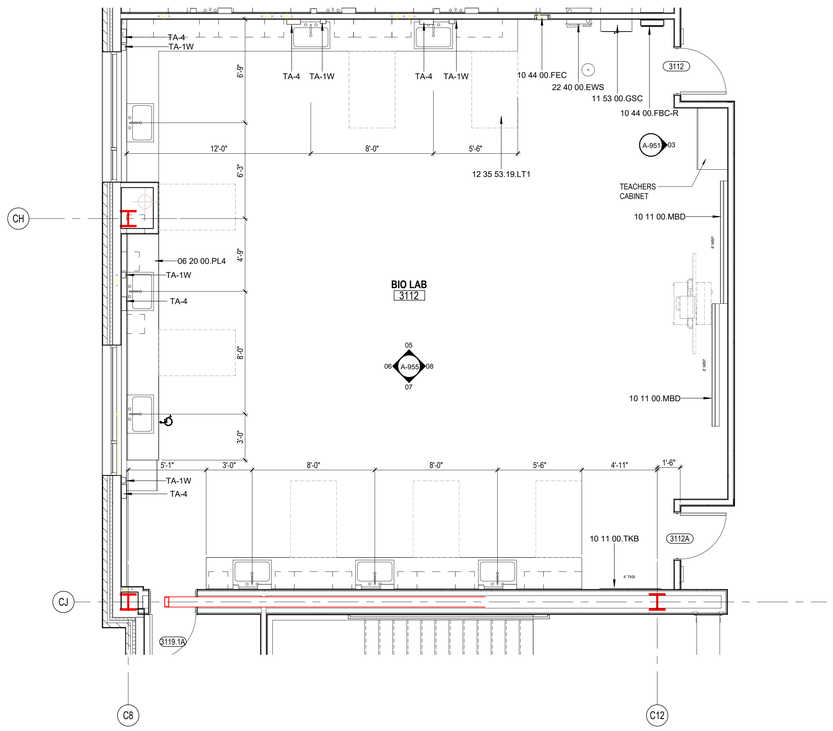
Plot Stamp:
12/5/2025 3:02:35 PM

ENLARGED FLOOR PLANS
A-405
FOR BLUEBEAM LABELING/DOOR:

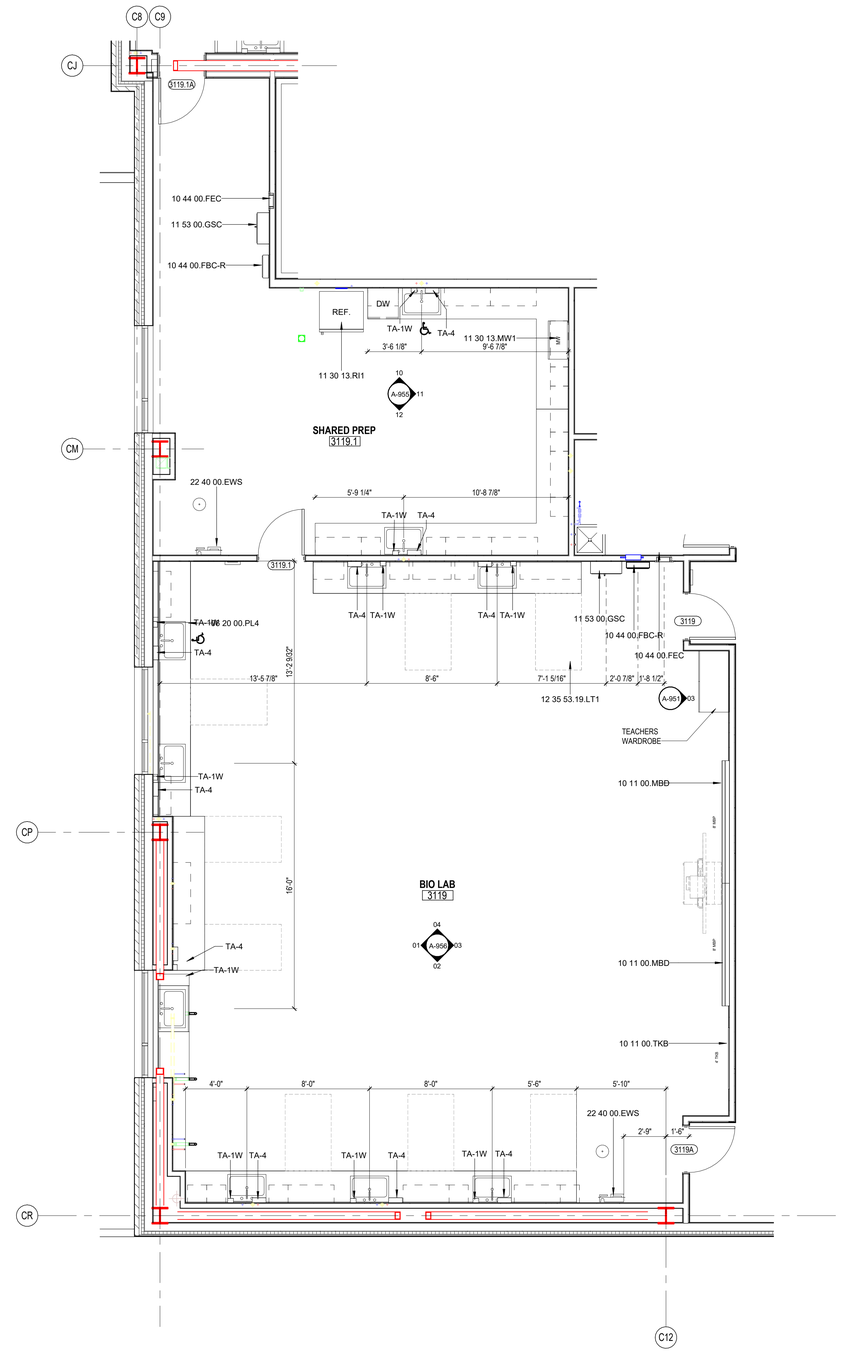
0"
1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 53 00.GSC	(OFOI)
12 35 53.19.LT1	LABORATORY TABLE, TYPE 1
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



02 LEVEL 3 - AREA F FLOOR PLAN- BIO LAB 3112
1/4" = 1'-0"



01 LEVEL 3 - ENLARGED PLAN - AREA F - 3119.1 SHARED PREP ROOM & BIO LAB 3119
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:02:37 PM

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HOUSTON, TX
713-865-0008

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25572
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CLIENT
Galena Park ISD
DATE
December 5, 2025
PROJECT NUMBER
240539
DRAWING HISTORY

No.	Description	Date

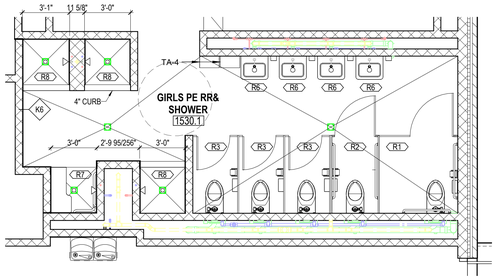
CHECKED BY: Checker
DRAWN BY: Author

ENLARGED FLOOR PLANS

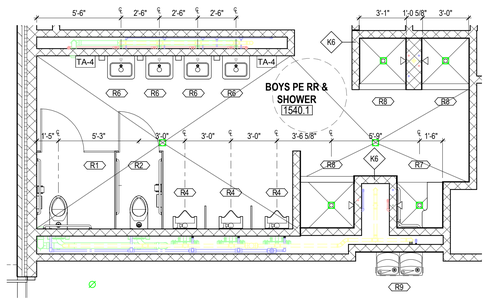
A-405

ENLARGED TOILET PLANS
A-406
FOR BLUEBEAM LABELING/DOOR:

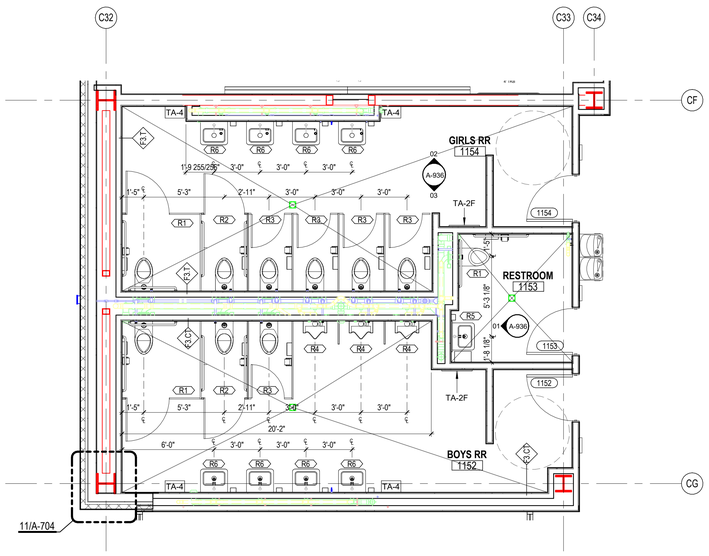
0"
1"



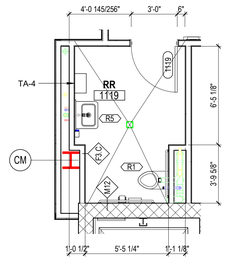
04 ENLARGED GIRLS RESTROOM & SHOWERS
1/4" = 1'-0"



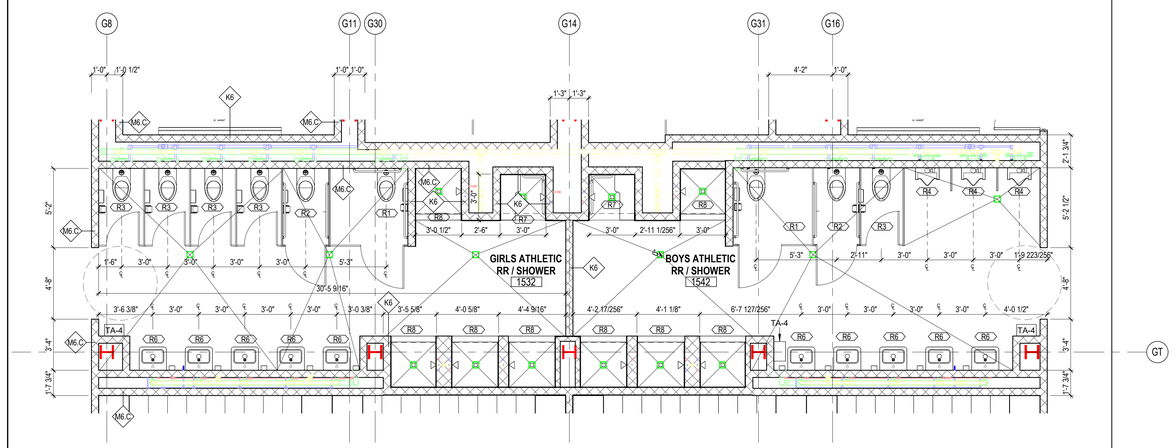
03 ENLARGED BOYS RESTROOM & SHOWERS
1/4" = 1'-0"



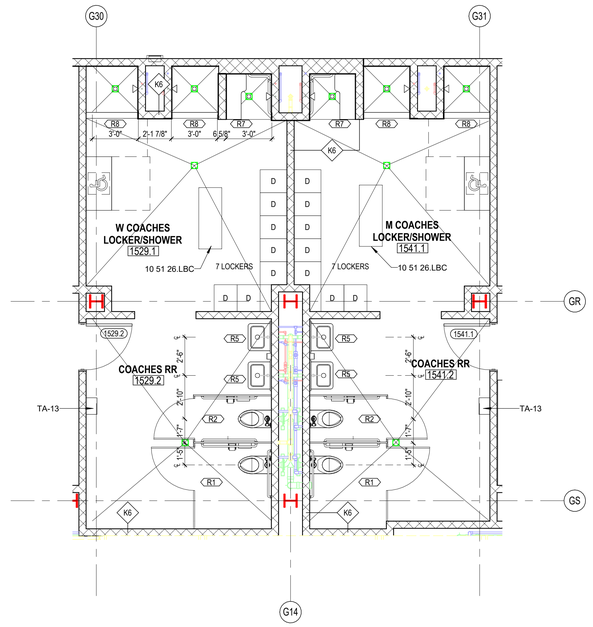
05 ENLARGED RESTROOMS 01
1/4" = 1'-0"



06 ENLARGED RESTROOM 01
1/4" = 1'-0"



01 ENLARGED RESTROOM & SHOWERS
1/4" = 1'-0"



02 ENLARGED COACHES RESTROOM & SHOWERS
1/4" = 1'-0"

KEYNOTE LEGEND

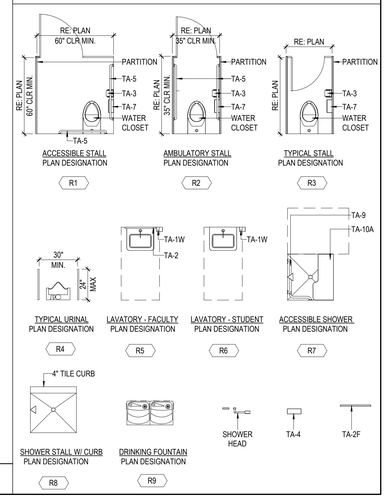
NUMBER	DESCRIPTION
10 51 26.LBC	LOCKER BENCH, 18"D X 48"W
TA-2F	FULL-LENGTH MIRROR
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-13	ELECTRIC HAND DRYER, TYPICAL

TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
TA1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL , OFCI	
TA2	LAVATORY MIRROR, TYPICAL	NOTE 5
TA2F	FULL-LENGTH MIRROR	
TA3	TOILET PAPER DISPENSER, TYPICAL , OFCI	
TA4	PAPER TOWEL DISPENSER, TYPICAL , OFCI	
TA5	GRAB BARS, AT WHEELCHAIR ACCESSIBLE WATERCLOSET,	
TA6	SANITARY NAPKIN/TAMPON VENDOR, TYPICAL	
TA7	SANITARY NAPKIN DISPOSAL, TYPICAL	
TA8	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS, TYPICAL	
TA9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL	
TA10A	FOLDING BENCH, ADULT HEIGHT	
TA11	CLOTHING HOOK, TYPICAL	NOTE 6
TA12	SHOWER CURTAINS, RODS AND HOOKS, TYPICAL	
TA15	GRAB BARS, AT AMBULATORY WATERCLOSET	
TA16C	BABY CHANGING STATION	
TA16A	ADULT CHANGING STATION	
TA17R	TRASH RECEPTACLE, RECESSED	
TA17U	TRASH RECEPTACLE, UNDERCOUNTER	
TA18	VERTICAL GRAB BAR (AT ACCESSIBLE ICC A117.1 TOILETS)	
TA19	WATERCLOSET SEAT COVER DISPENSER	
TA20	FOLDING UTILITY SHELF	

NOTES:
1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY.
6. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER.
7. ALL SHOWERS WALLS TO RECEIVE TILE FINISH TO CEILING. DIMENSIONS AT SHOWER WALLS ARE TO FACE OF TILE.

ENLARGED TOILET PLAN LEGEND



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STATE OF TEXAS
REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

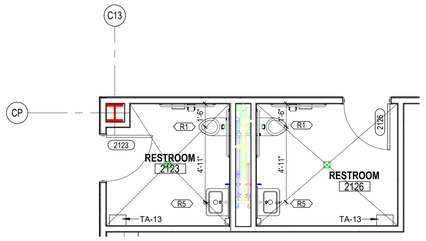
ENLARGED TOILET PLANS

A-406

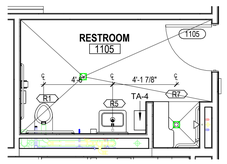
Plot Stamp:
12/5/2025 3:02:44 PM

ENLARGED TOILET PLANS
A-407
FOR BLUEBEAM LABELING/DOOR:

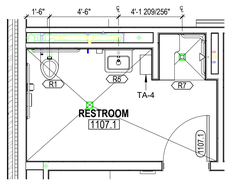
0"
1"



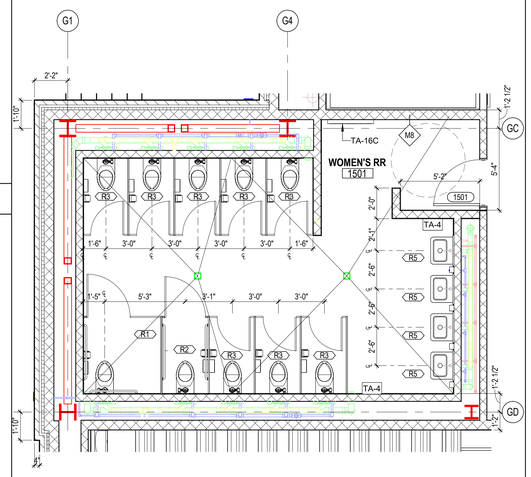
08 ENLARGED RESTROOMS 04
1/4" = 1'-0"



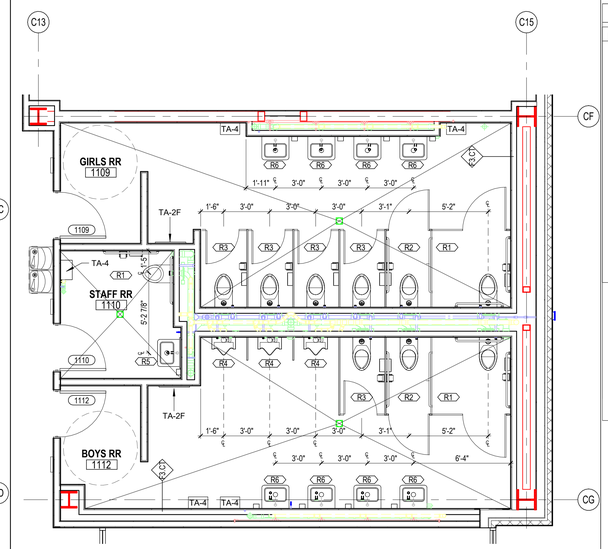
07 ENLARGED RESTROOM 03
1/4" = 1'-0"



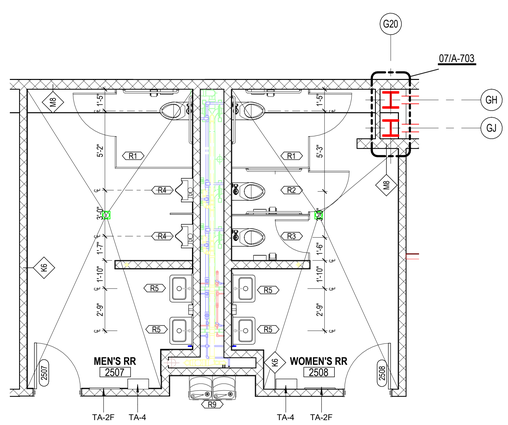
06 ENLARGED RESTROOM 02
1/4" = 1'-0"



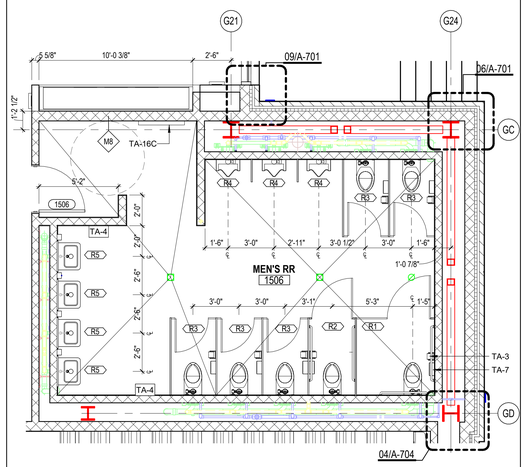
05 ENLARGED WOMEN'S RESTROOM
1/4" = 1'-0"



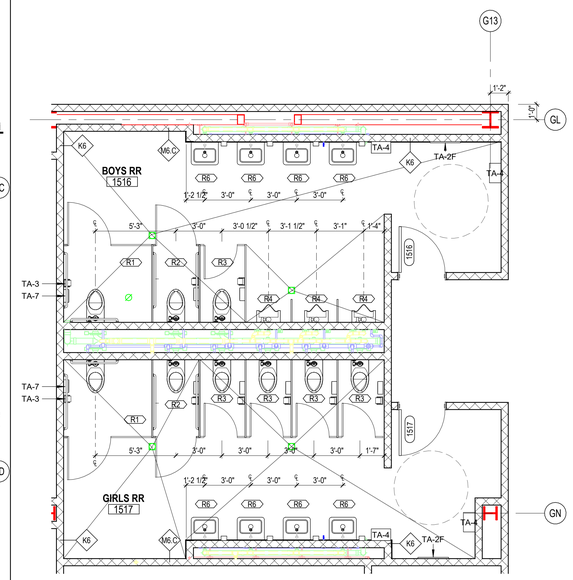
04 ENLARGED RESTROOMS 03
1/4" = 1'-0"



03 ENLARGED WOMEN'S & MEN'S RESTROOM
1/4" = 1'-0"



02 ENLARGED MEN'S RESTROOM
1/4" = 1'-0"



01 ENLARGED RESTROOMS 02
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
TA-2F	FULL-LENGTH MIRROR
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL
TA-13	ELECTRIC HAND DRYER, TYPICAL
TA-16C	BABY CHANGING STATION

TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
TA1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL , OFCI	
TA2	LAVATORY MIRROR, TYPICAL	NOTE 5
TA2F	FULL-LENGTH MIRROR	
TA3	TOILET PAPER DISPENSER, TYPICAL , OFCI	
TA4	PAPER TOWEL DISPENSER, TYPICAL , OFCI	
TA5	GRAB BARS, AT WHEELCHAIR ACCESSIBLE WATERCLOSET,	
TA6	SANITARY NAPKIN/TAMPON VENDOR, TYPICAL	
TA7	SANITARY NAPKIN DISPOSAL, TYPICAL	
TA8	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS, TYPICAL	
TA9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL	
TA10A	FOLDING BENCH, ADULT HEIGHT	
TA11	CLOTHING HOOK, TYPICAL	NOTE 6
TA12	SHOWER CURTAINS, RODS AND HOOKS, TYPICAL	
TA15	GRAB BARS, AT AMBULATORY WATERCLOSET	
TA16C	BABY CHANGING STATION	
TA16A	ADULT CHANGING STATION	
TA17R	TRASH RECEPTACLE, RECESSED	
TA17U	TRASH RECEPTACLE, UNDERCOUNTER	
TA18	VERTICAL GRAB BAR (AT ACCESSIBLE ICC A117.1 TOILETS)	
TA19	WATERCLOSET SEAT COVER DISPENSER	
TA20	FOLDING UTILITY SHELF	

NOTES:
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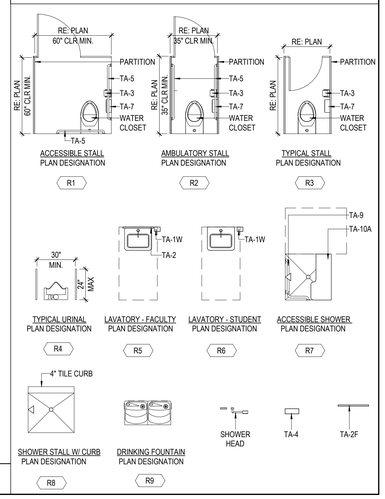
6. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER.
7. ALL SHOWERS WALLS TO RECEIVE TILE FINISH TO CEILING. DIMENSIONS AT SHOWER WALLS ARE TO FACE OF TILE.

ENLARGED TOILET PLAN LEGEND



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25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED TOILET PLANS

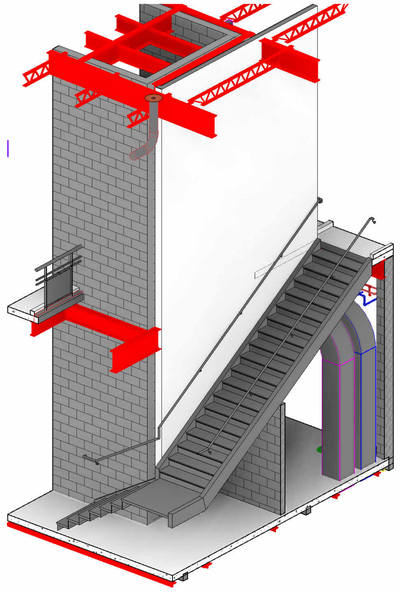
A-407

Plot Stamp:
12/5/2025 3:02:53 PM

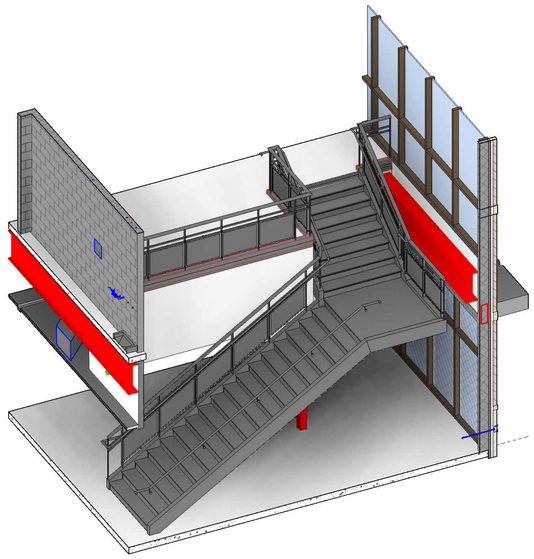
ENLARGED STAIR PLANS AND SECTIONS
A-420

FOR BLUEBEAM LABELING/DOOR:

0"
1"



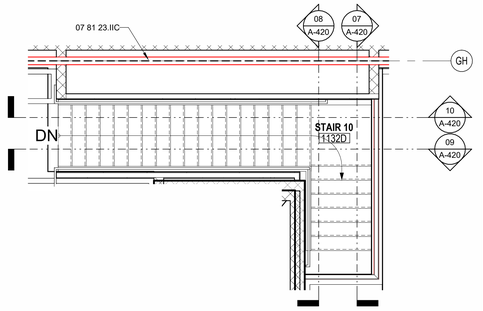
13 ISOMETRIC STAIR 01 - Area B



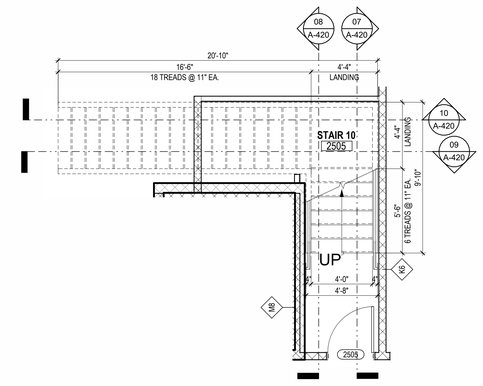
12 ISOMETRIC STAIR 01 - Area B

KEYNOTE LEGEND

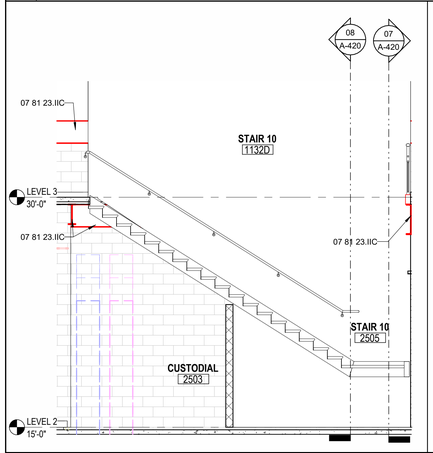
NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING



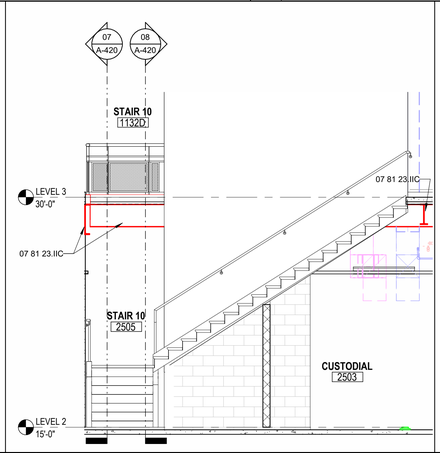
14 LEVEL 3 - AREA B FLOOR PLAN - STAIR 10
1/4" = 1'-0"



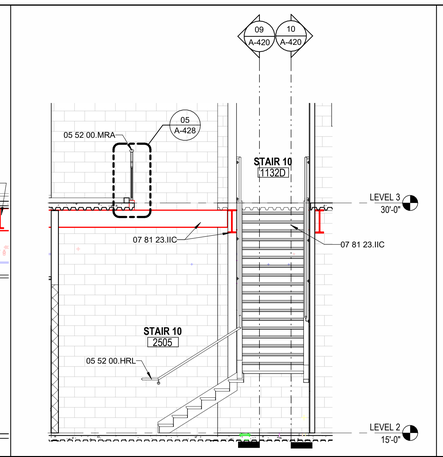
11 LEVEL 2 - AREA B FLOOR PLAN - STAIR 10
1/4" = 1'-0"



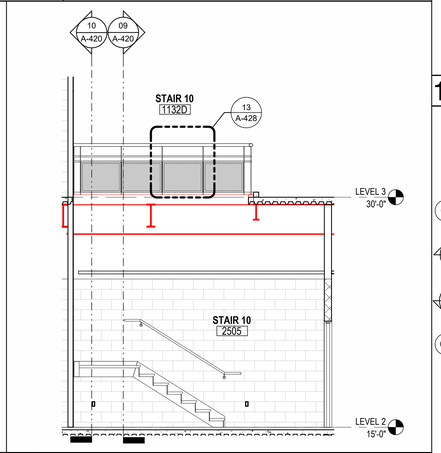
10 STAIR 10 SECTION 04
1/4" = 1'-0"



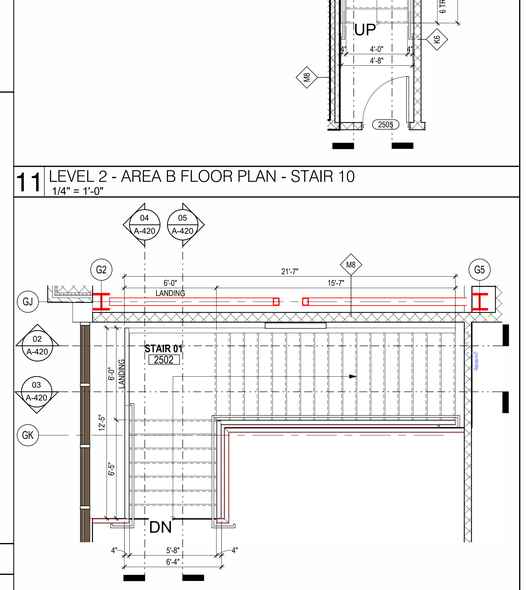
09 STAIR 10 SECTION 03
1/4" = 1'-0"



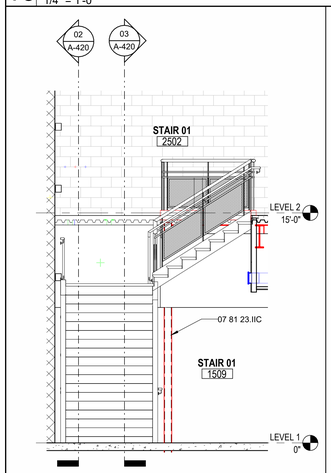
08 STAIR 10 SECTION 02
1/4" = 1'-0"



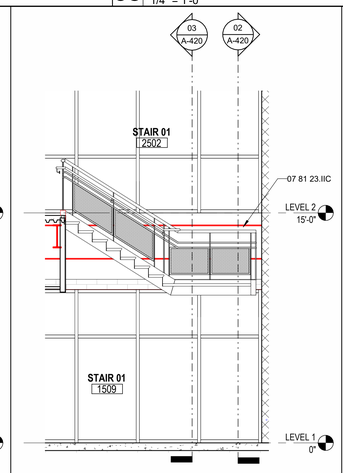
07 STAIR 10 SECTION 01
1/4" = 1'-0"



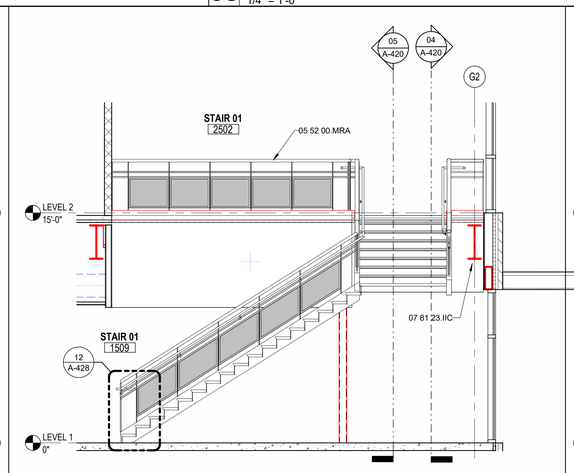
06 LEVEL 2 - AREA B FLOOR PLAN - STAIR 01
1/4" = 1'-0"



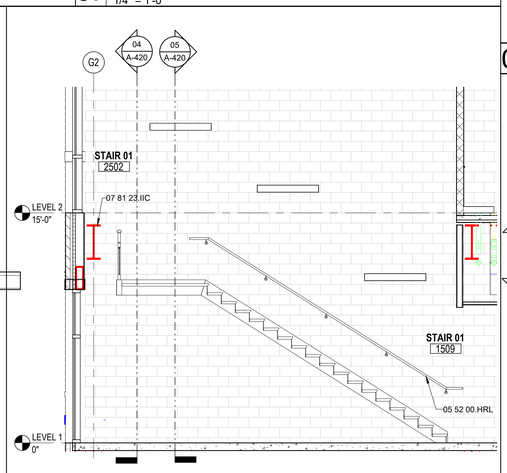
05 STAIR 01 SECTION 04
1/4" = 1'-0"



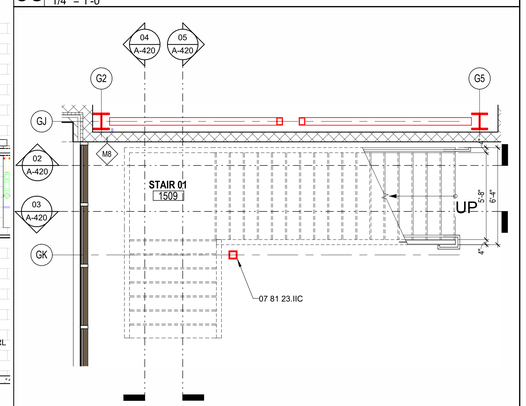
04 STAIR 01 SECTION 03
1/4" = 1'-0"



03 STAIR 01 SECTION 02
1/4" = 1'-0"



02 STAIR 01 SECTION 01
1/4" = 1'-0"



01 LEVEL 1 - AREA B FLOOR PLAN - STAIR 01
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:03:02 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

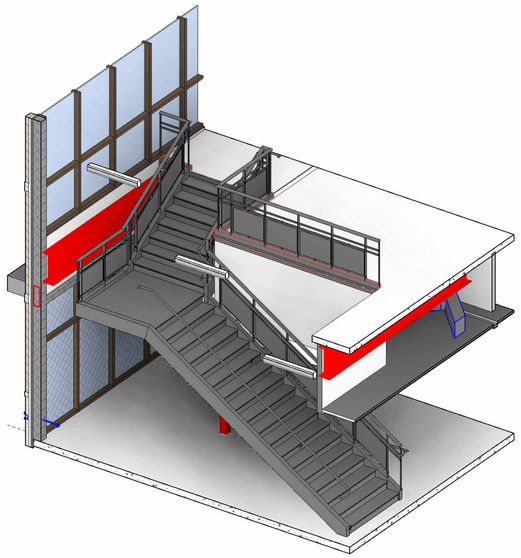
CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

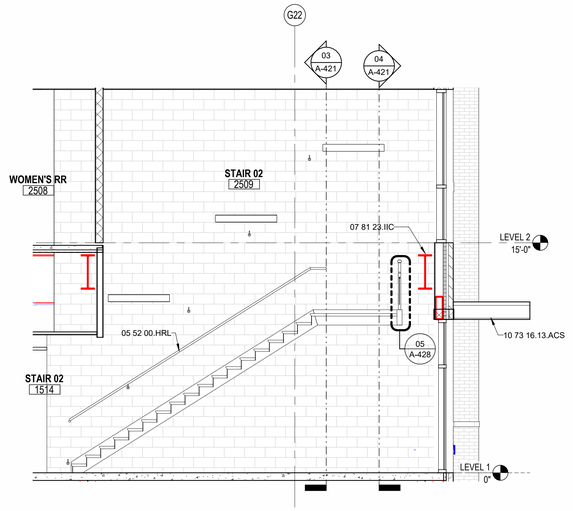
A-420

0"
1"

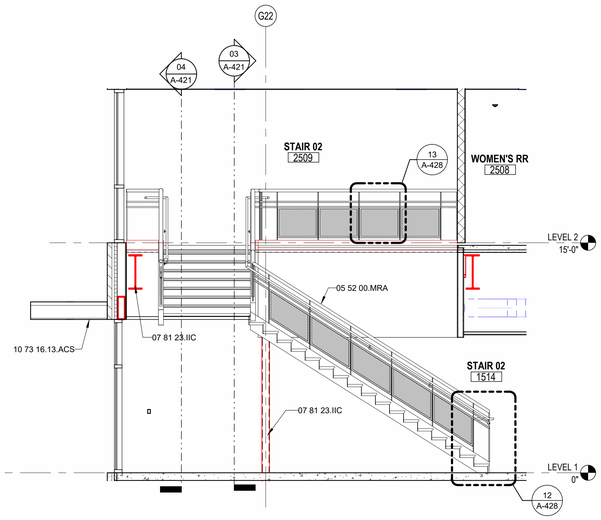
ENLARGED STAIR PLANS AND SECTIONS
A-421
FOR BLUEBEAM LABELING/DOOR:



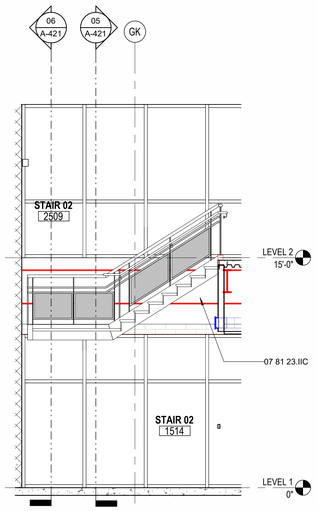
07 ISOMETRIC STAIR 02 - AREA B



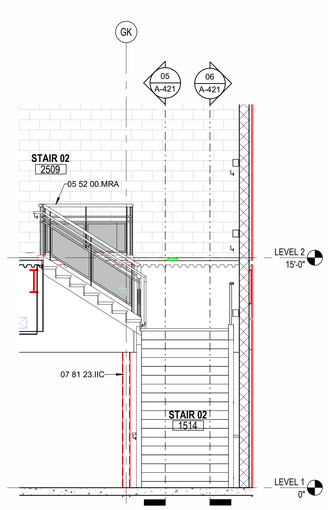
06 STAIRS 02 SECTION 04
1/4" = 1'-0"



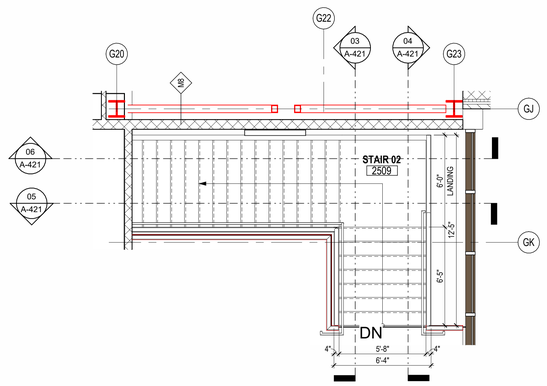
05 STAIRS 02 SECTION 03
1/4" = 1'-0"



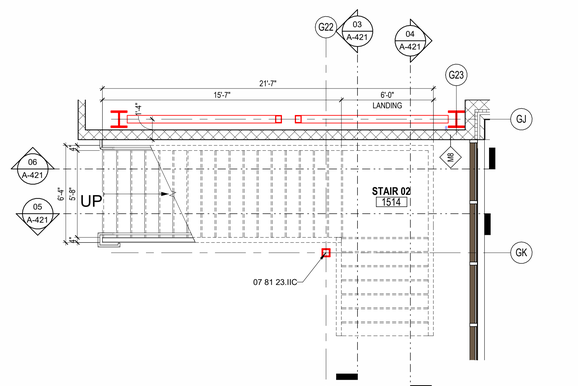
04 STAIR 02 SECTION 02
1/4" = 1'-0"



03 STAIR 02 SECTION 01
1/4" = 1'-0"



02 LEVEL 2 - AREA B FLOOR PLAN - STAIR 02
1/4" = 1'-0"



01 LEVEL 1 - AREA B FLOOR PLAN - STAIR 02
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:03:08 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
REGISTERED ARCHITECT
JAN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

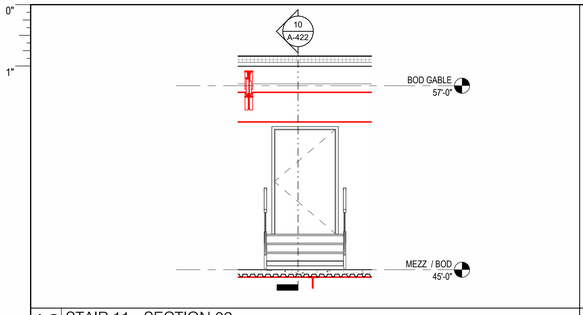
No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

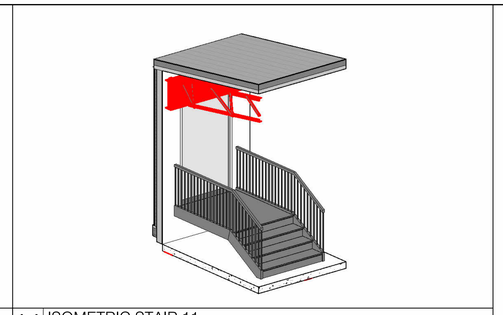
ENLARGED STAIR PLANS AND SECTIONS

A-421

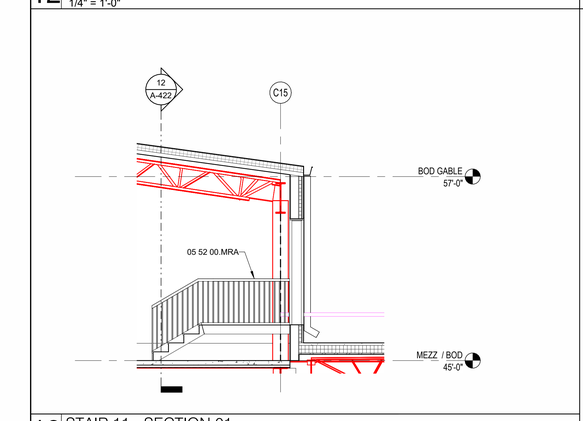
ENLARGED STAIR PLANS AND SECTIONS
A-422
FOR BLUEBEAM LABELING/OCR:



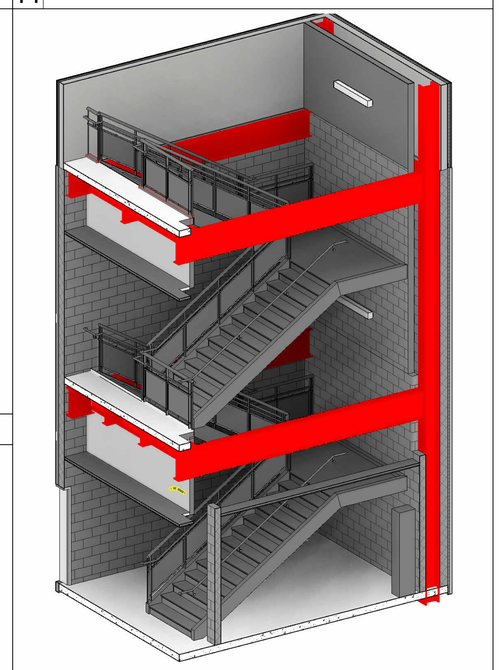
12 STAIR 11 - SECTION 02
1/4" = 1'-0"

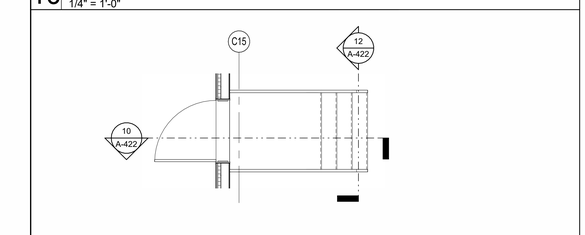


11 ISOMETRIC STAIR 11



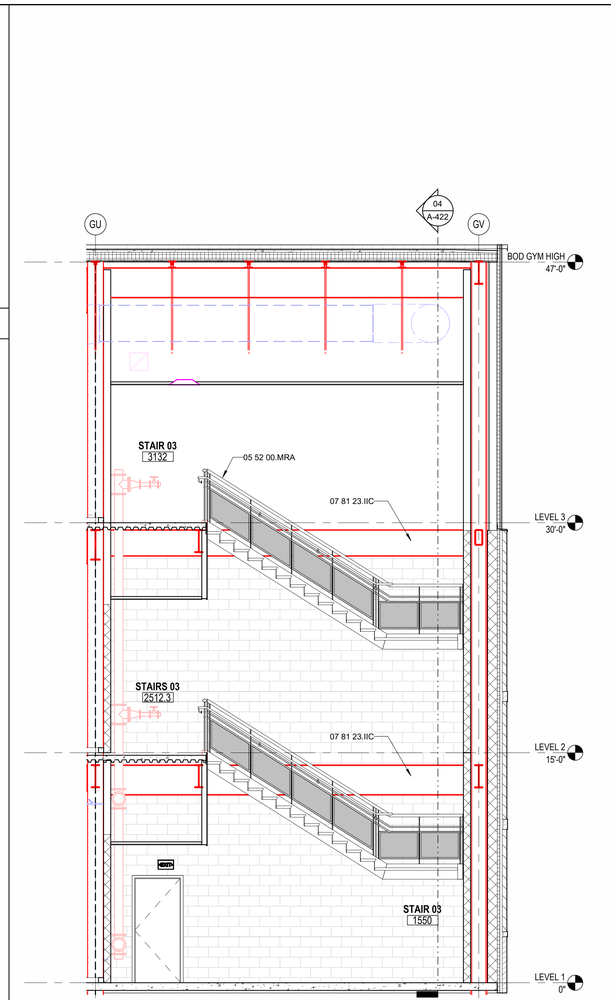
10 STAIR 11 - SECTION 01
1/4" = 1'-0"





09 MECHANICAL PENTHOUSE FLOOR PLAN - STAIR 11
1/4" = 1'-0"

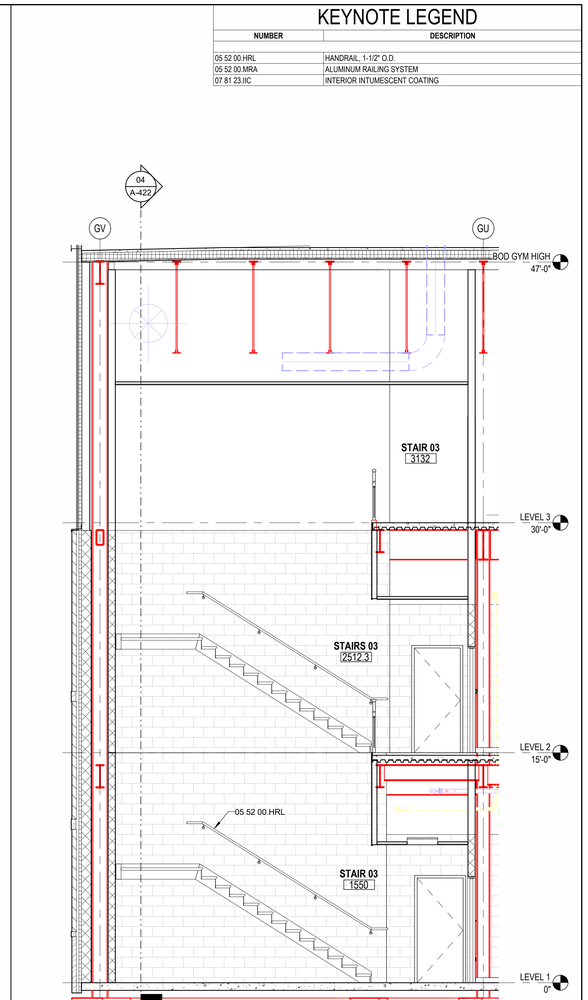
08 ISOMETRIC STAIR 03 - AREA B



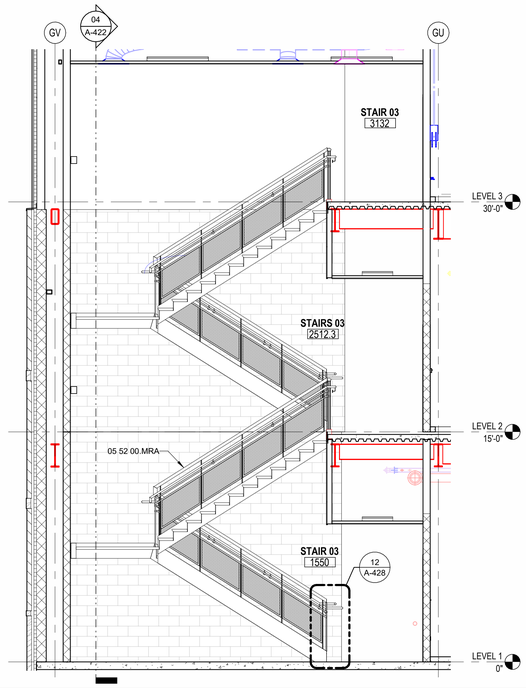
07 STAIR 03 SECTION 04
1/4" = 1'-0"

KEYNOTE LEGEND

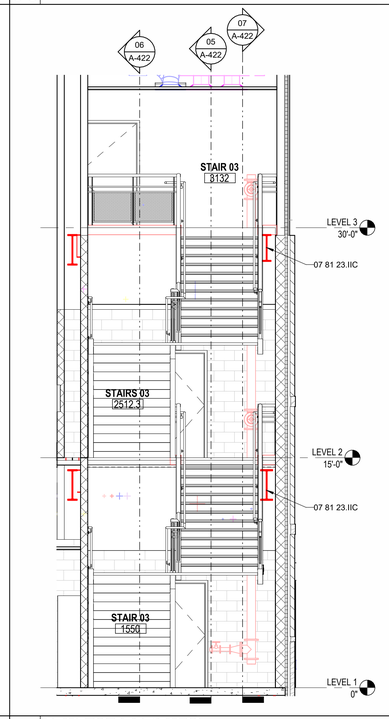
NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING



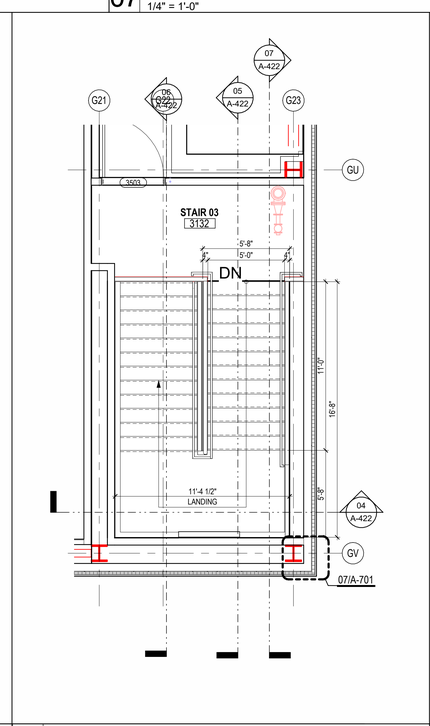
06 STAIR 03 SECTION 03
1/4" = 1'-0"



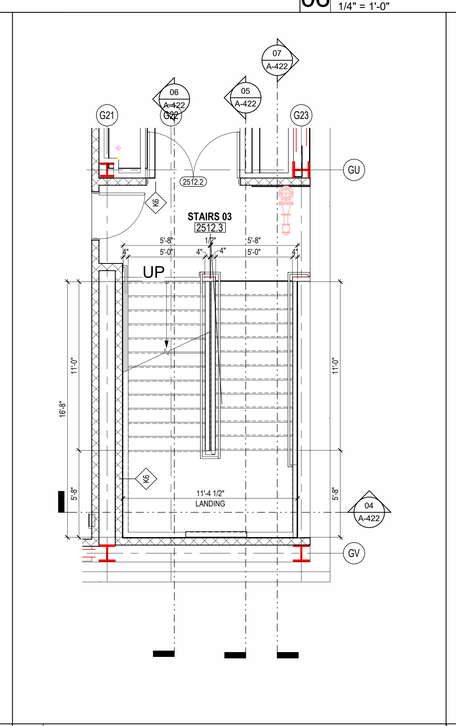
05 STAIR 03 SECTION 01
1/4" = 1'-0"



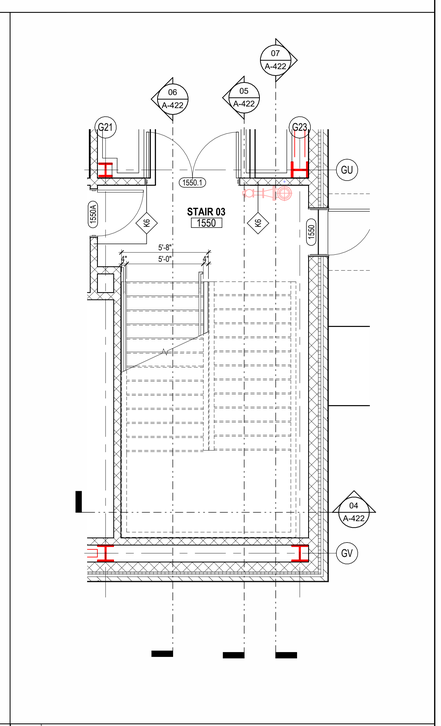
04 STAIR 03 SECTION 02
1/4" = 1'-0"



03 LEVEL 3 - AREA B FLOOR PLAN - STAIR 03
1/4" = 1'-0"



02 LEVEL 2 - AREA B FLOOR PLAN - STAIR 03
1/4" = 1'-0"



01 LEVEL 1 - AREA B FLOOR PLAN - STAIR 03
1/4" = 1'-0"

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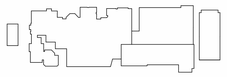
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

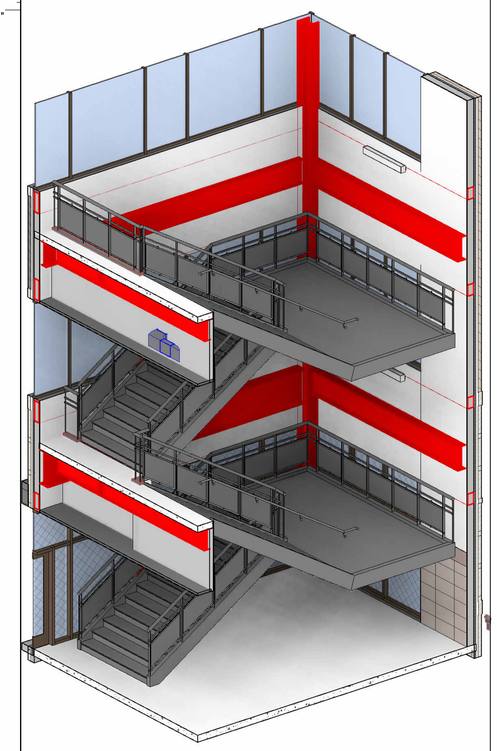
A-422

Plot Stamp:
12/5/2025 3:03:19 PM

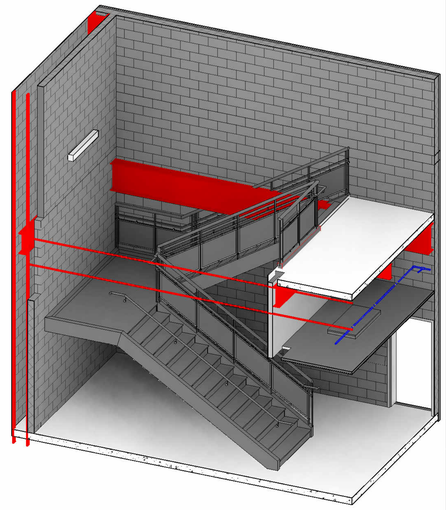
ENLARGED STAIR PLANS AND SECTIONS
A-423

FOR BLUEBEAM LABELING/OCR:

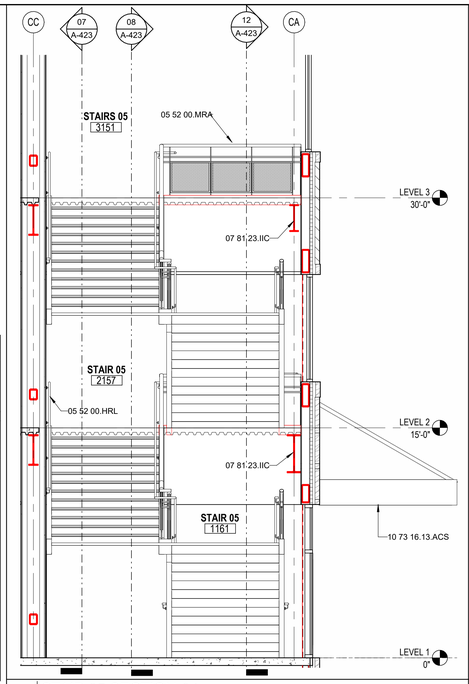
0"
1"



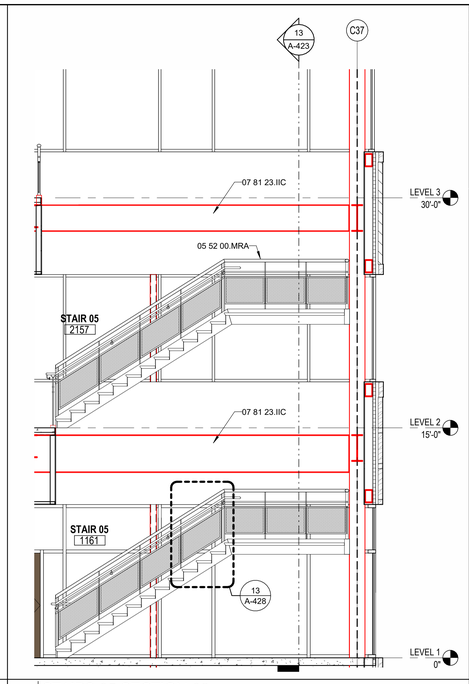
15 ISOMETRIC STAIRS 05 - AREA C



16 ISOMETRIC STAIRS 04 - AREA C



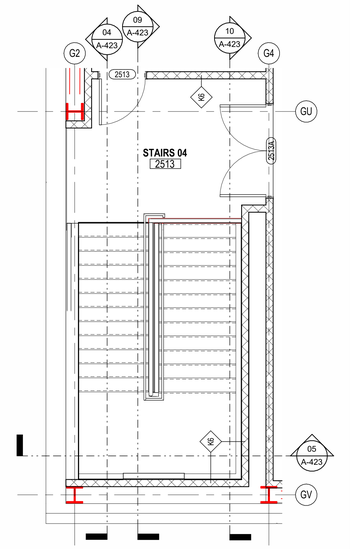
13 STAIR 05 SECTION 04
1/4" = 1'-0"



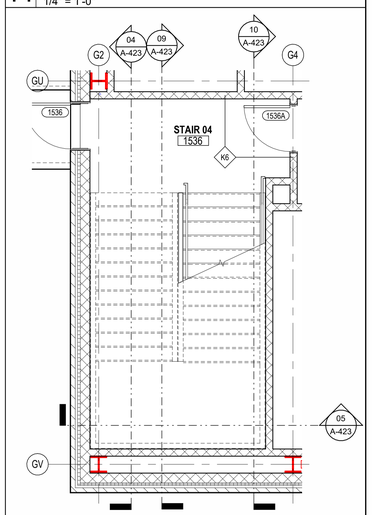
12 STAIRS 05 SECTION 03
1/4" = 1'-0"

KEYNOTE LEGEND

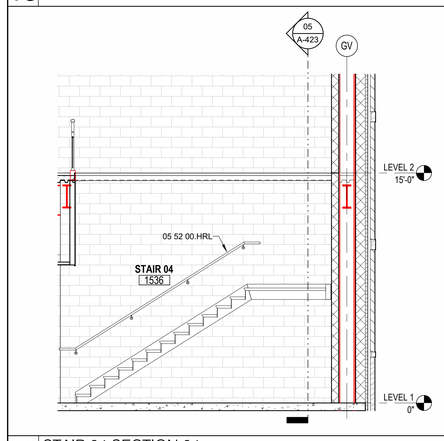
NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM



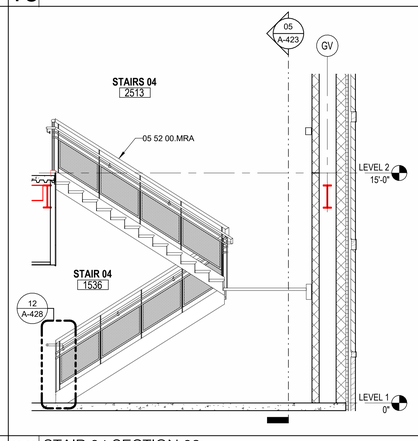
11 LEVEL 2 - AREA B FLOOR PLAN - STAIR 04
1/4" = 1'-0"



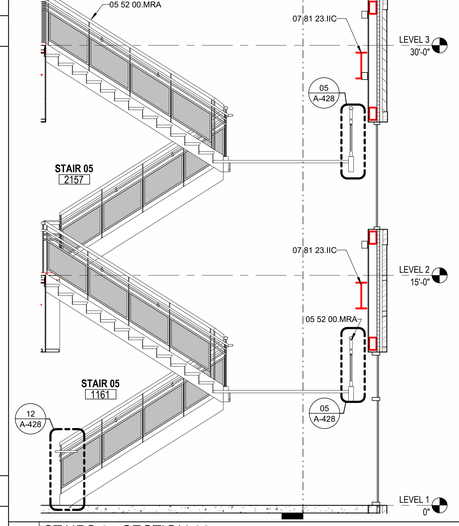
06 LEVEL 1 - AREA B FLOOR PLAN - STAIR 04
1/4" = 1'-0"



10 STAIR 04 SECTION 04
1/4" = 1'-0"



09 STAIR 04 SECTION 03
1/4" = 1'-0"



08 STAIRS 05 SECTION 02
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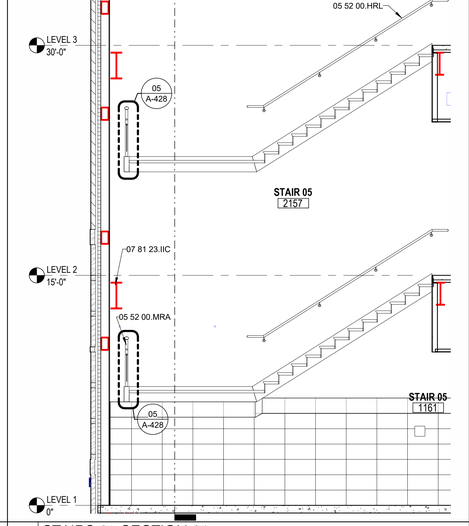
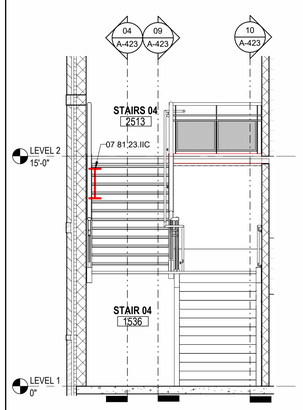
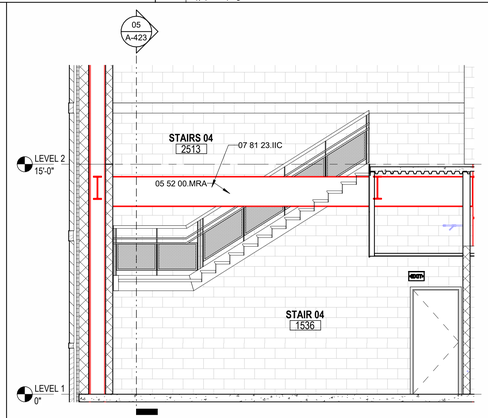


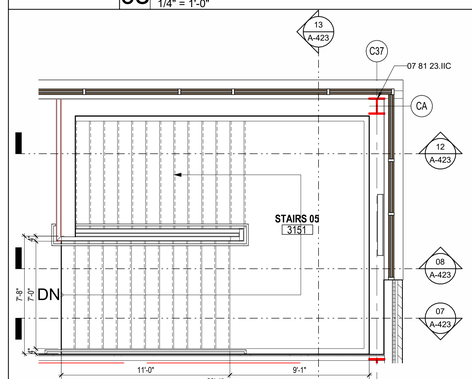
07 STAIRS 05 SECTION 01
1/4" = 1'-0"



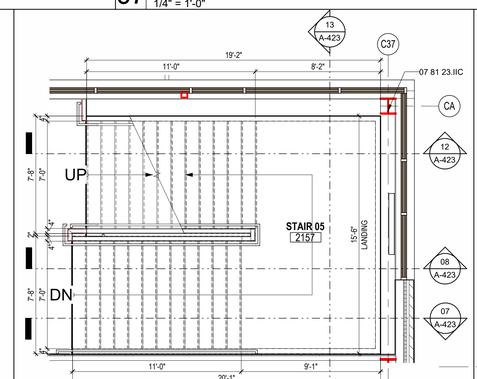
05 STAIR 04 SECTION 02
1/4" = 1'-0"



04 STAIR 04 SECTION 01
1/4" = 1'-0"



03 LEVEL 3 - AREA C FLOOR PLAN - STAIR 05
1/4" = 1'-0"



02 LEVEL 2 - AREA C FLOOR PLAN - STAIR 05
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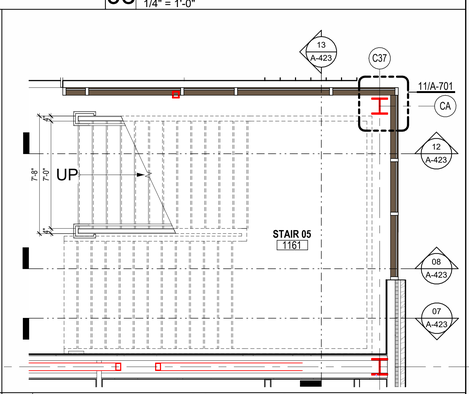

01 LEVEL 1 - AREA C FLOOR PLAN - STAIR 05
1/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

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713-865-0008

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
IAN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

CC

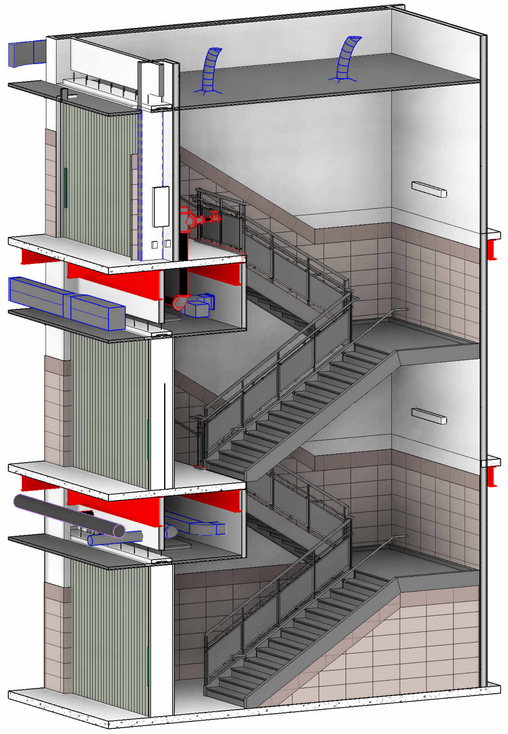
A-423

Plot Stamp:
12/5/2025 3:03:32 PM

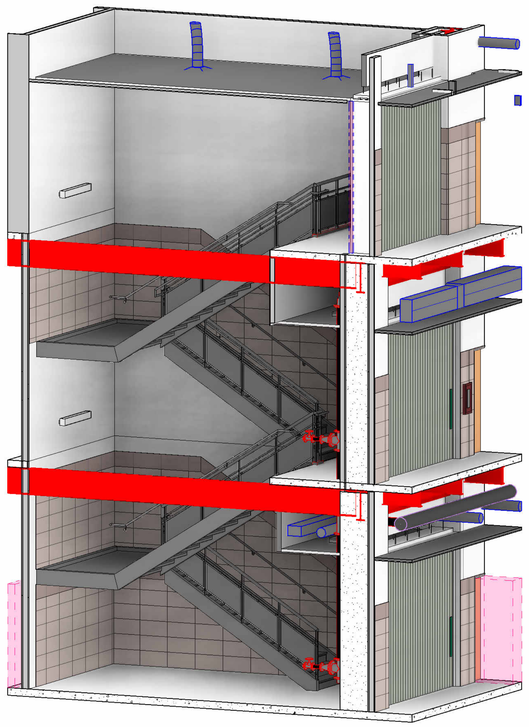
ENLARGED STAIR PLANS AND SECTIONS
A-424

FOR BLUEBEAM LABELING/DOOR:

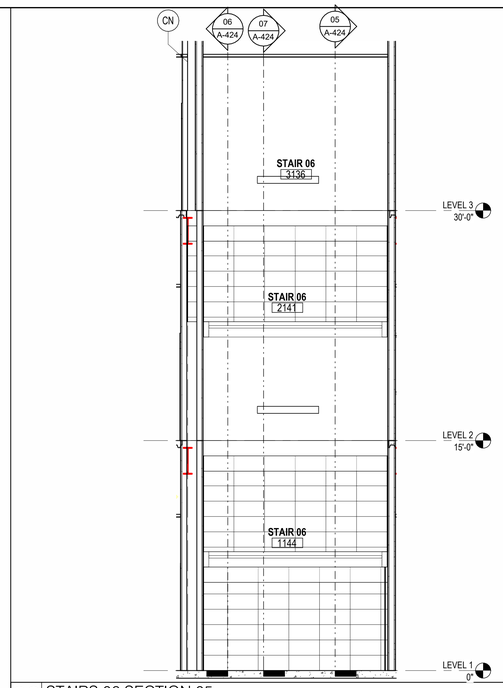
0"
1"



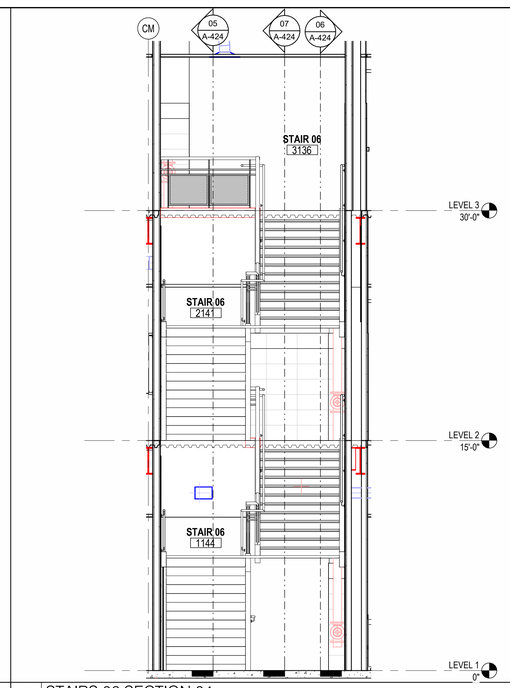
10 ISOMETRIC STAIRS 06 - AREA D



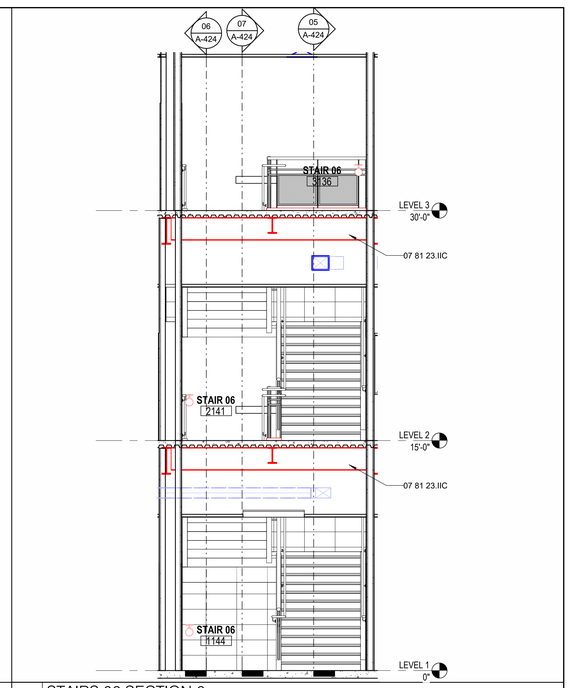
04 ISOMETRIC STAIRS 06 - AREA D



09 STAIRS 06 SECTION 05
1/4" = 1'-0"



08 STAIRS 06 SECTION 04
1/4" = 1'-0"



11 STAIRS 06 SECTION 6
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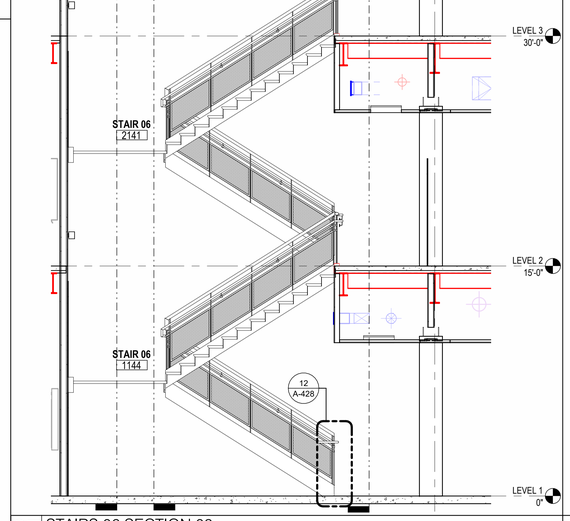
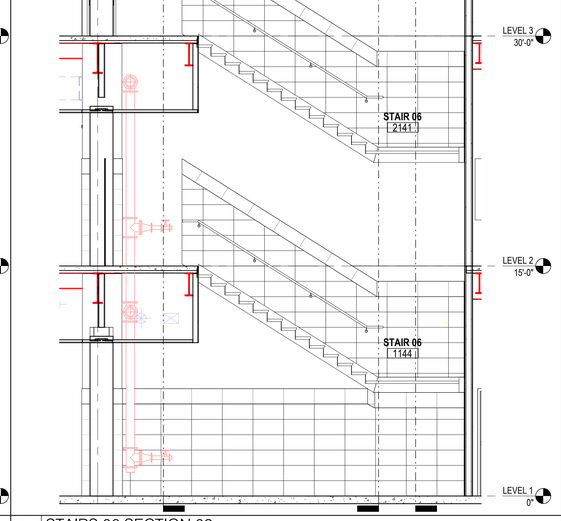
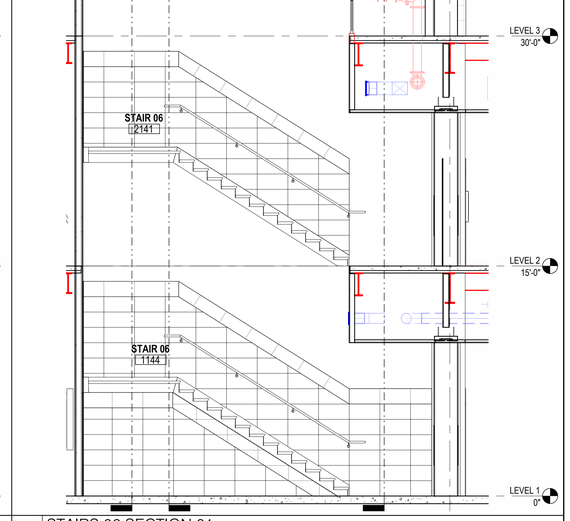


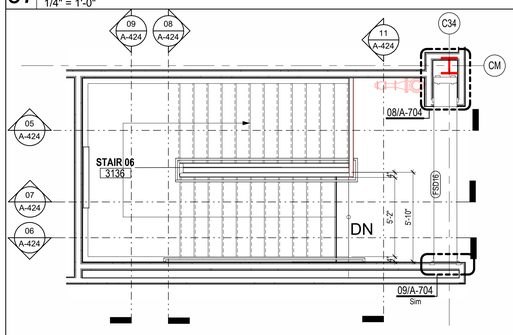
07 STAIRS 06 SECTION 03
1/4" = 1'-0"



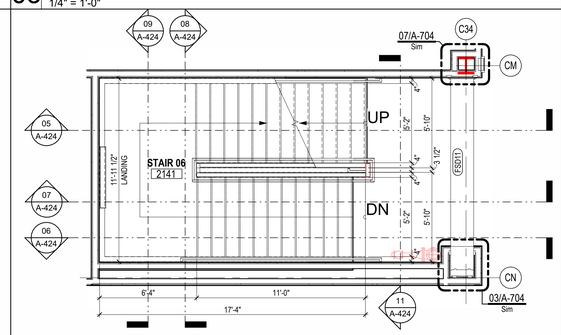
06 STAIRS 06 SECTION 02
1/4" = 1'-0"



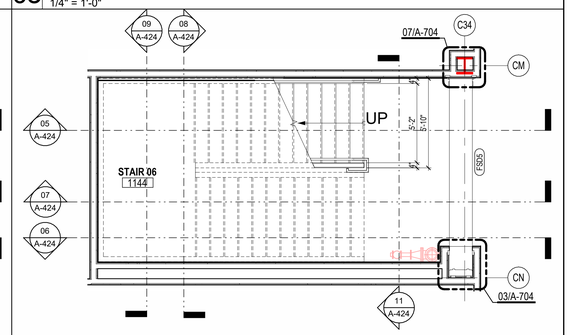
05 STAIRS 06 SECTION 01
1/4" = 1'-0"



03 LEVEL 3 - AREA D FLOOR PLAN - STAIRS 06
1/4" = 1'-0"



02 LEVEL 2 - AREA D FLOOR PLAN - STAIRS 06
1/4" = 1'-0"



01 LEVEL 1 - AREA D FLOOR PLAN - STAIRS 06
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:03:44 PM

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HOUSTON, TX
713-865-6908

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

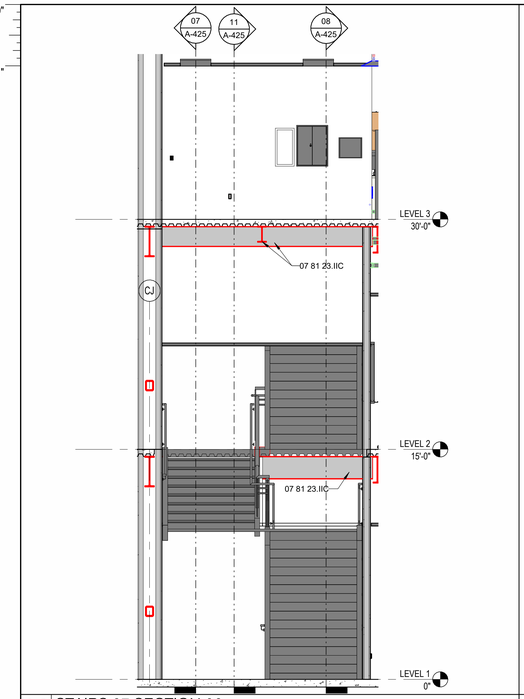
CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

A-424

ENLARGED STAIR PLANS AND SECTIONS
A-425

FOR BLUEBEAM LABELING/OCR:



12 STAIRS 07 SECTION 06
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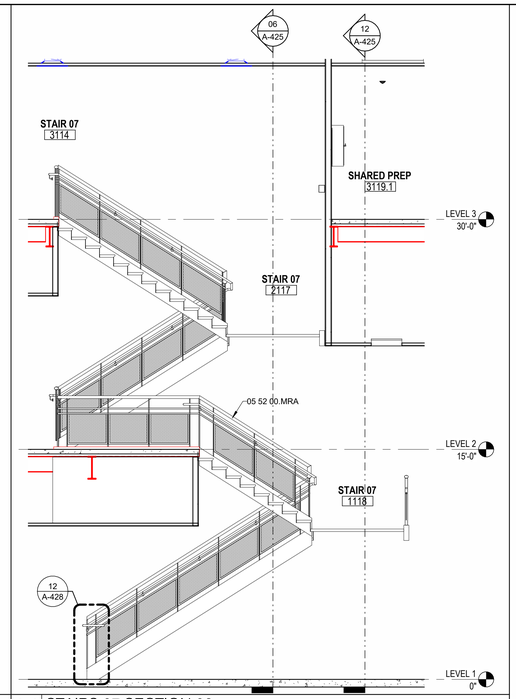

11 STAIRS 07 SECTION 02
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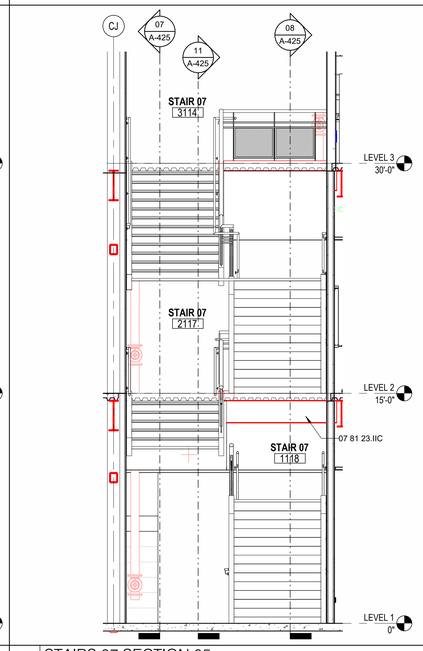
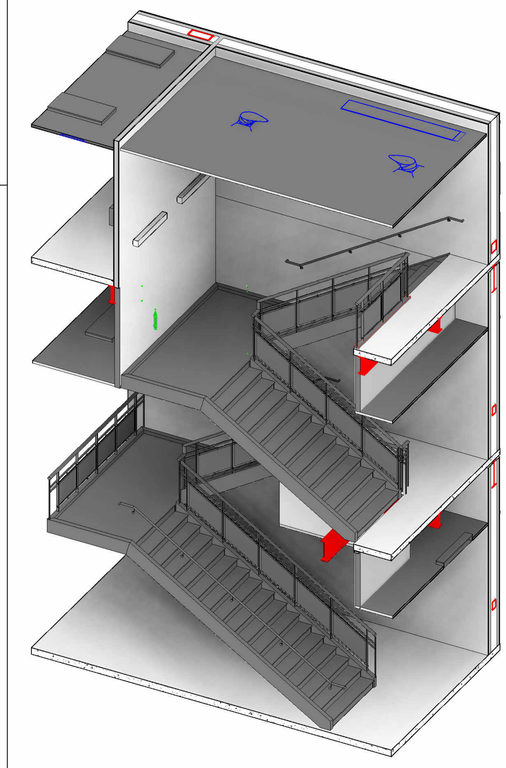
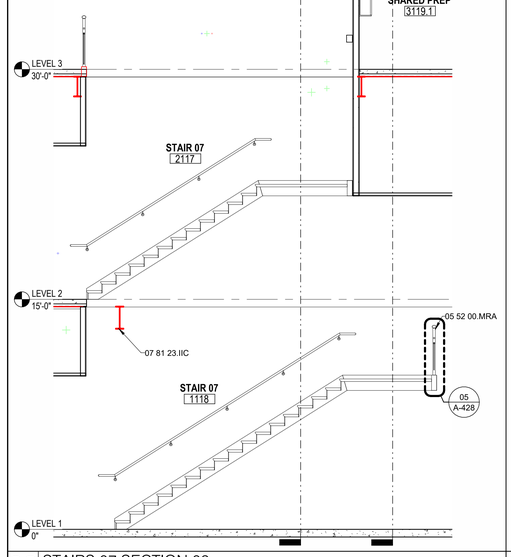


06 STAIRS 07 SECTION 05
1/4" = 1'-0"



04 ISOMETRIC STAIRS 07 - AREA F



08 STAIRS 07 SECTION 03
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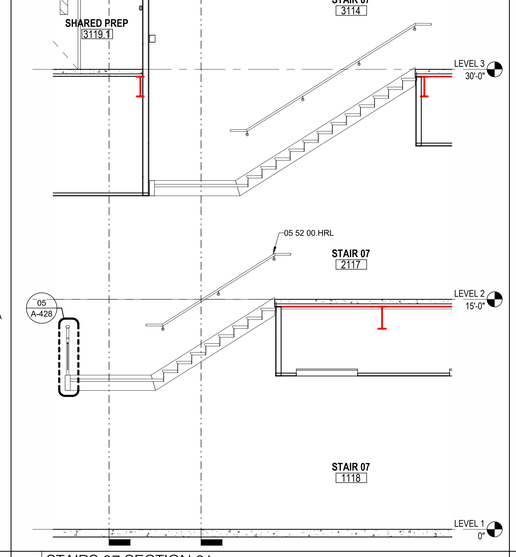

07 STAIRS 07 SECTION 01
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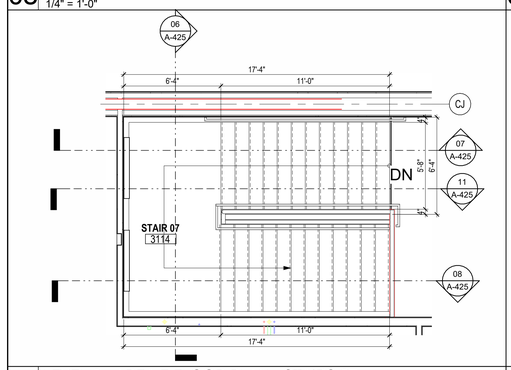
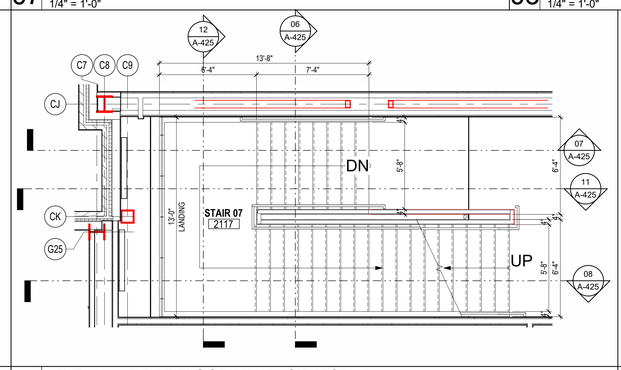
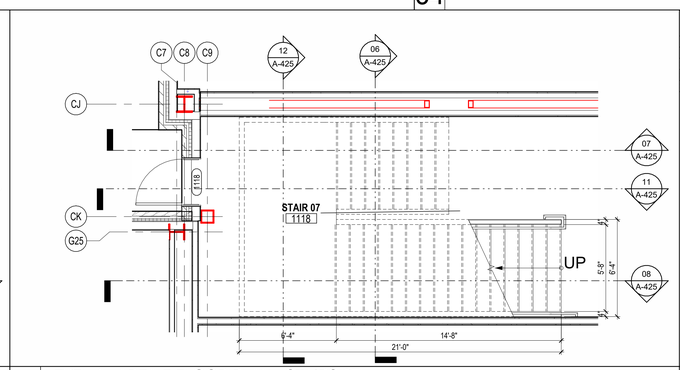


03 LEVEL 3 - AREA F FLOOR PLAN - STAIRS 07
1/4" = 1'-0"



02 LEVEL 2 - AREA F FLOOR PLAN - STAIRS 07
1/4" = 1'-0"



01 LEVEL 1 - AREA F FLOOR PLAN - STAIRS 07
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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713-865-6008

TX FIRM #R 1608

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KEY PLAN

NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

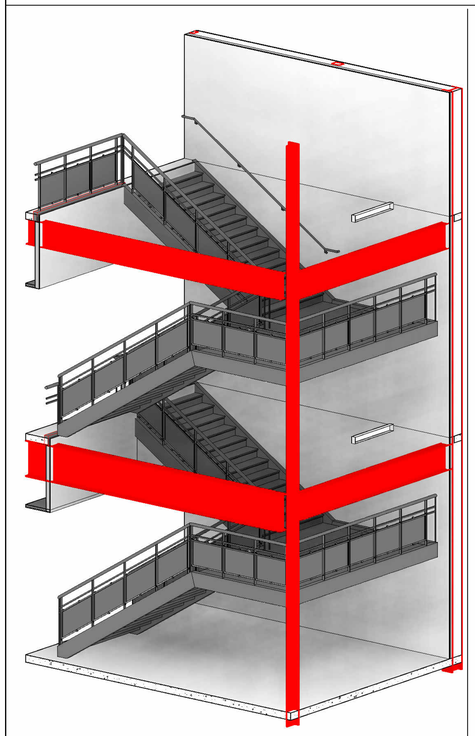
ENLARGED STAIR PLANS AND SECTIONS

A-425

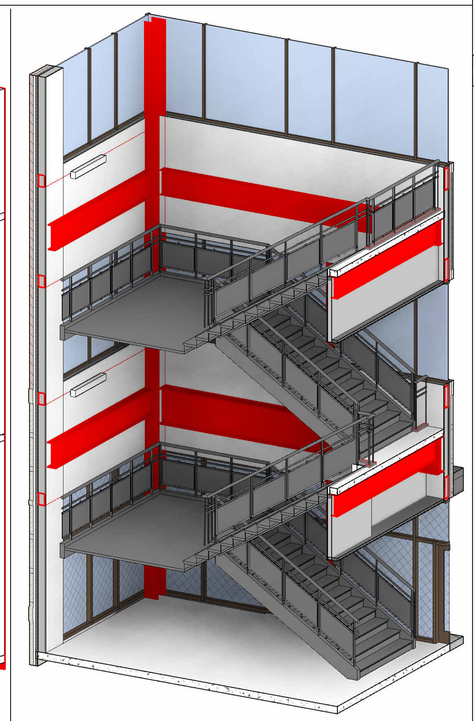
Plot Stamp:
12/5/2025 3:03:52 PM

0"
1"

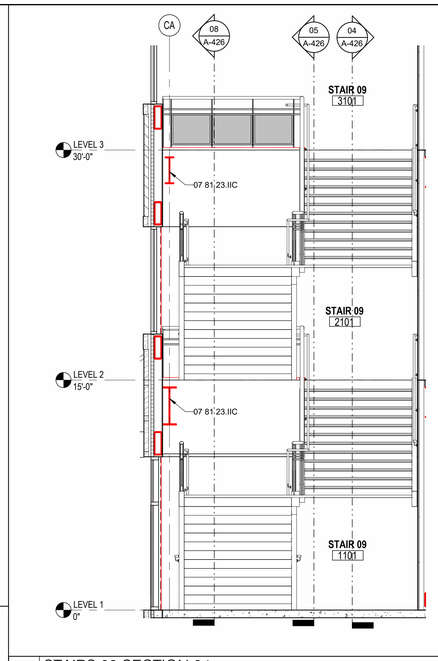
ENLARGED STAIR PLANS AND SECTIONS
A-426
FOR BLUEBEAM LABELING/DOOR:



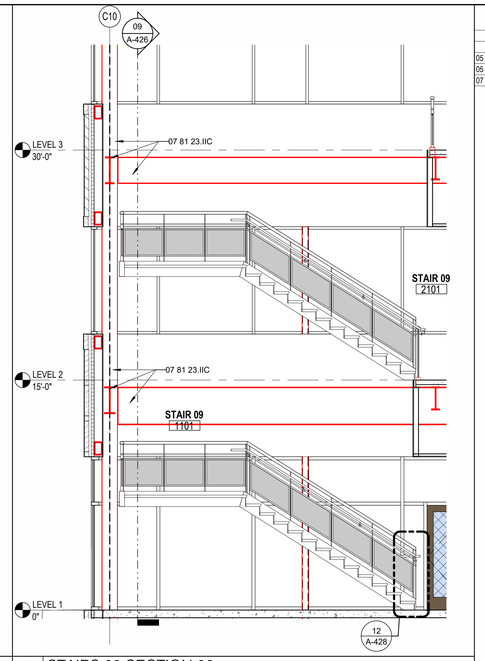
07 ISOMETRIC STAIRS 09 - AREA E



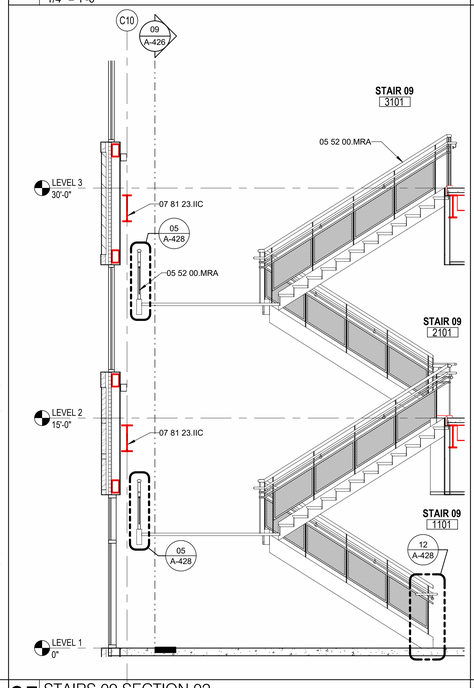
06 ISOMETRIC STAIRS 09 - AREA E



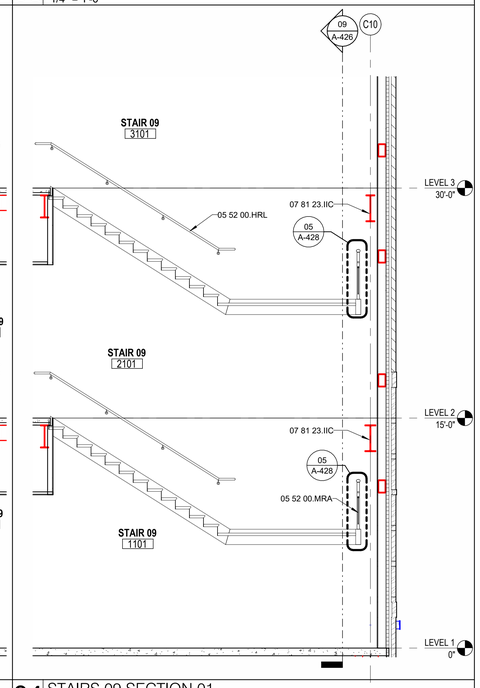
09 STAIRS 09 SECTION 04
1/4" = 1'-0"



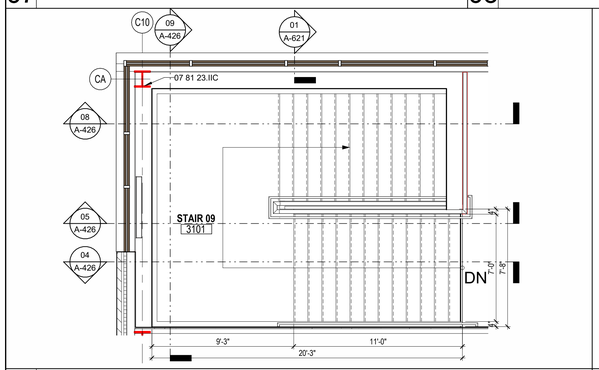
08 STAIRS 09 SECTION 03
1/4" = 1'-0"



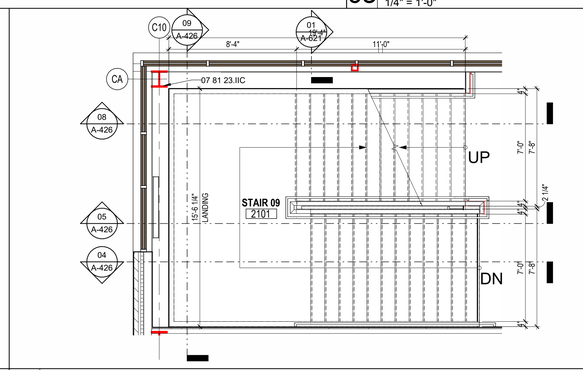
05 STAIRS 09 SECTION 02
1/4" = 1'-0"



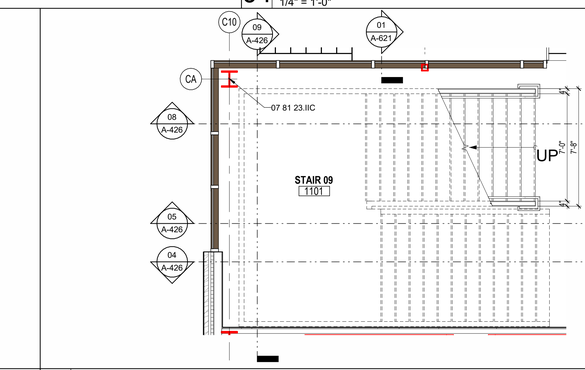
04 STAIRS 09 SECTION 01
1/4" = 1'-0"



03 LEVEL 3 - AREA E FLOOR PLAN - STAIRS 09
1/4" = 1'-0"



02 LEVEL 2 - AREA E FLOOR PLAN - STAIRS 09
1/4" = 1'-0"



01 LEVEL 1 - AREA E FLOOR PLAN - STAIRS 09
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING

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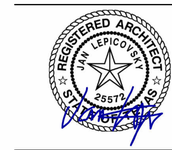
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

A-426

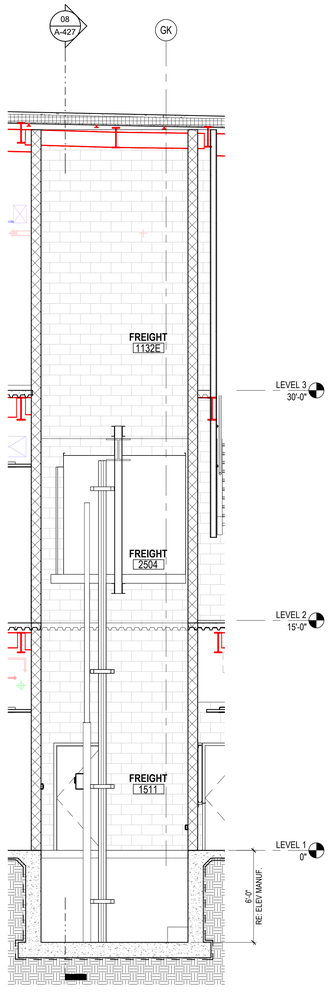
Plot Stamp:
12/5/2025 3:04:02 PM

0"
1"

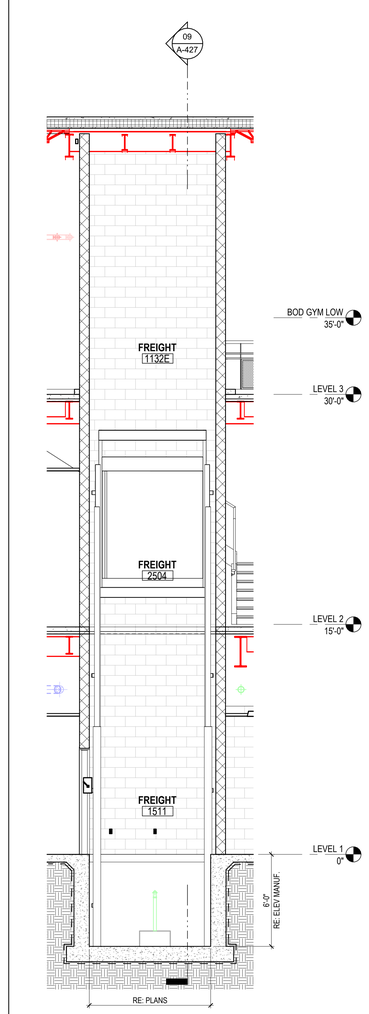
ELEVATOR PLANS & SECTIONS
A-427
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

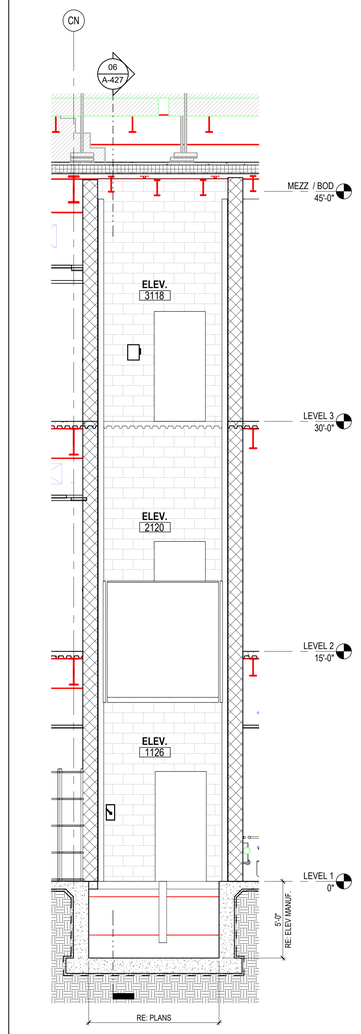
NUMBER	DESCRIPTION



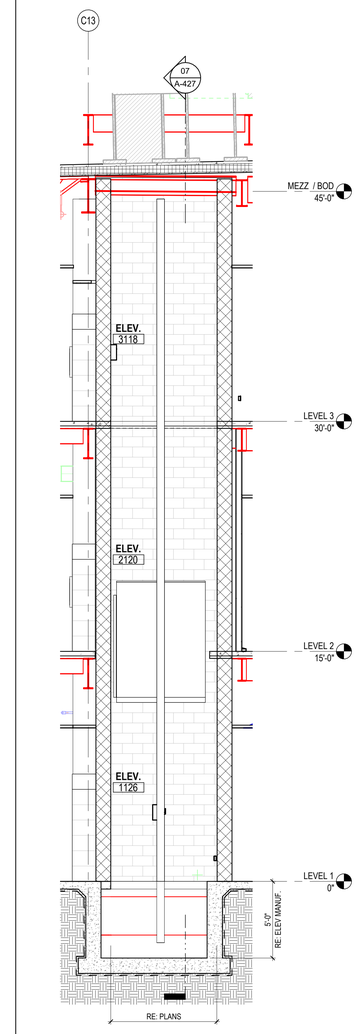
09 FREIGHT ELEVATOR PLAN @ AREA B
1/4" = 1'-0"



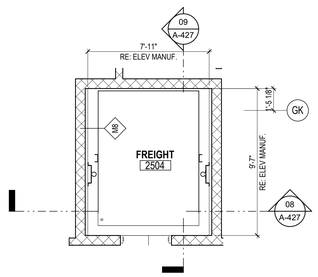
08 FREIGHT ELEVATOR PLAN @ AREA B
1/4" = 1'-0"



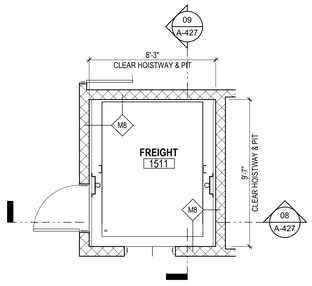
07 ELEVATOR PLAN @ AREA F
1/4" = 1'-0"



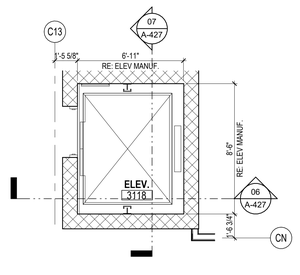
06 ELEVATOR PLAN @ AREA F
1/4" = 1'-0"



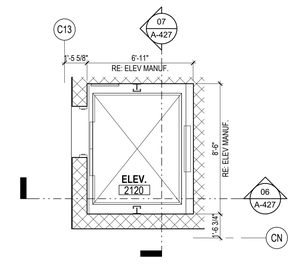
05 LEVEL 2 - FREIGHT ELEVATOR PLAN AREA B
1/4" = 1'-0"



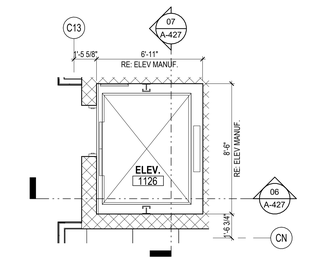
04 LEVEL 1 - FREIGHT ELEVATOR PLAN AREA B
1/4" = 1'-0"



03 LEVEL 3 - ELEVATOR PLAN AREA F
1/4" = 1'-0"



02 LEVEL 2 - ELEVATOR PLAN AREA F
1/4" = 1'-0"



01 LEVEL 1 - ELEVATOR PLAN AREA F
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:04:07 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

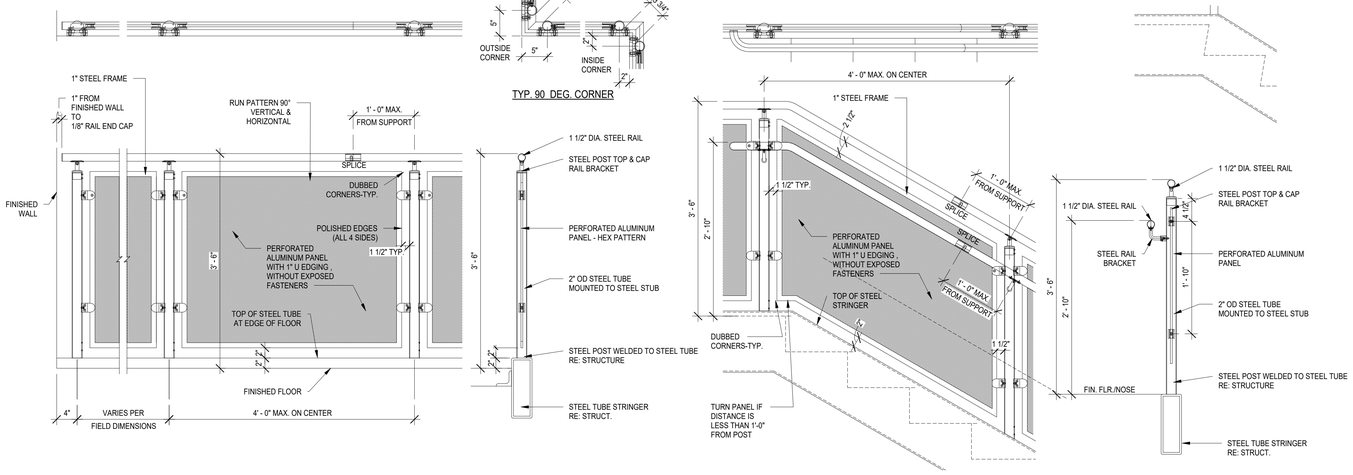
CHECKED BY: Checker
DRAWN BY: Author

ELEVATOR PLANS & SECTIONS

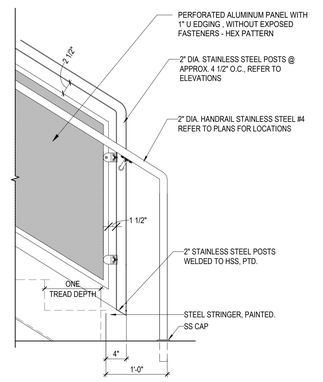
A-427

STAIR DETAILS
A-428
FOR BLUEBEAM LABELING/DOOR:

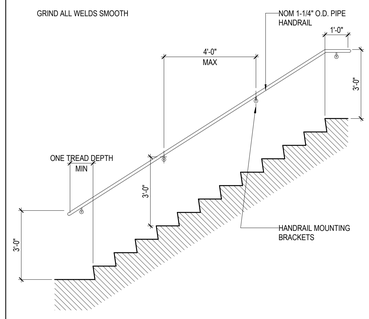
0"
1"



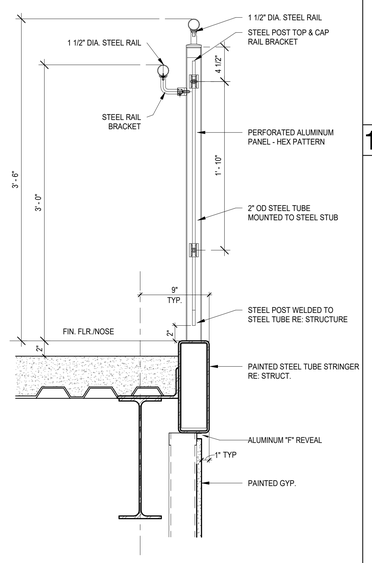
13 STAIR DETAIL - ORNAMENTAL HANDRAIL
1" = 1'-0"



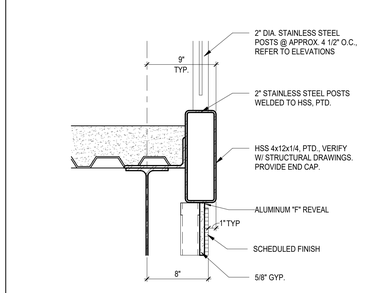
12 STAIR DETAIL - BOTTOM HANDRAIL
1" = 1'-0"



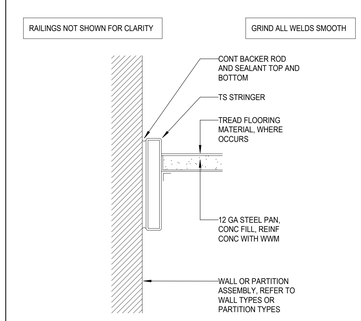
11 TYP. WALL MOUNTED RAILING
3/8" = 1'-0"



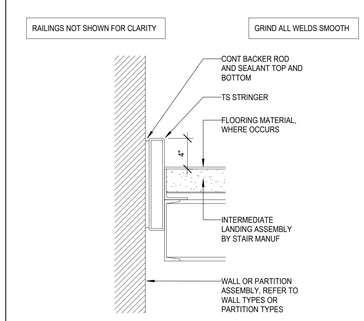
05 GUARDRAIL SECTION - SLAB EDGE
1 1/2" = 1'-0"



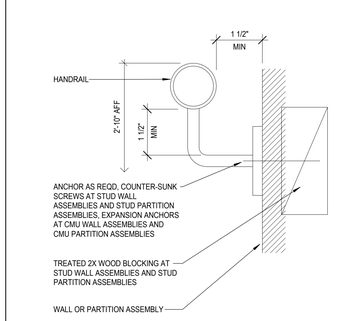
10 SECTION DETAIL
1 1/2" = 1'-0"



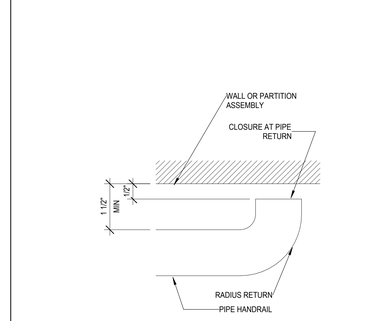
09 STAIR STRINGER @ WALL
1 1/2" = 1'-0"



08 STAIR STRINGER @ LANDING
1 1/2" = 1'-0"

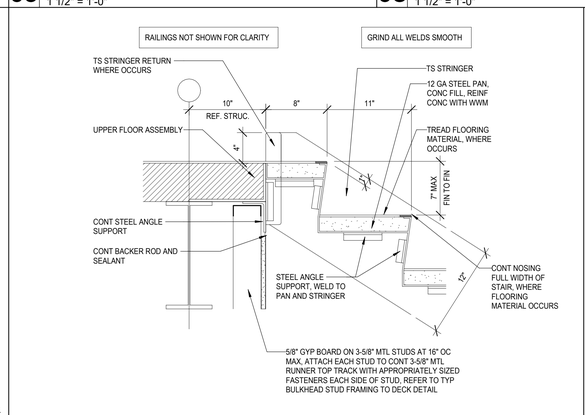


07 STAIR HANDRAIL SECTION DETAIL
6" = 1'-0"

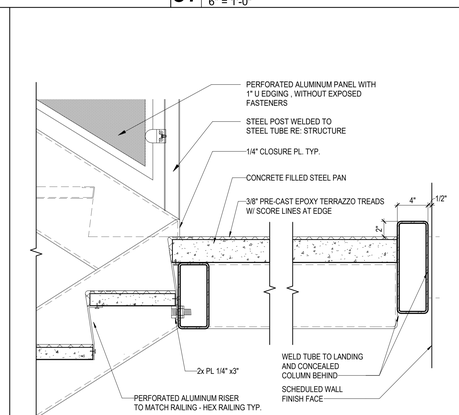


06 RETURNING HAND RAIL
6" = 1'-0"

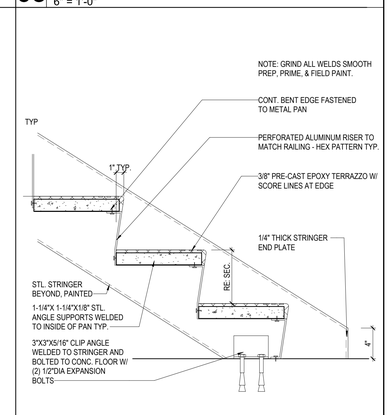
04 TYP. NOSING DETAIL
N.T.S.



03 UPPER STAIR LANDING
1 1/2" = 1'-0"



02 STAIR TREAD AT MID-LANDING
1 1/2" = 1'-0"



01 STAIR AT LEVEL SLAB
1 1/2" = 1'-0"

Plot Stamp:
12/5/2025 3:04:10 PM

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

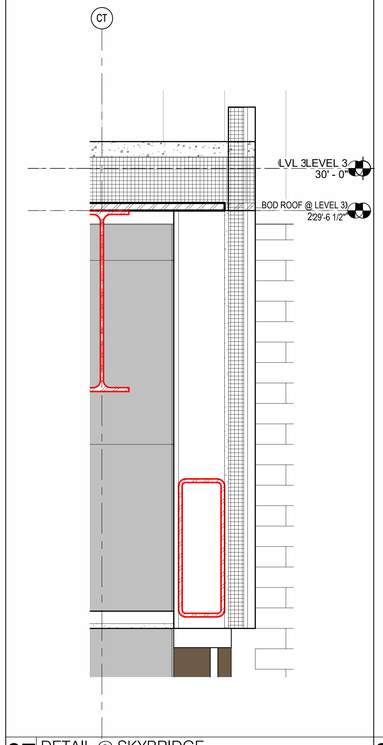
CHECKED BY: Checker
DRAWN BY: Author

STAIR DETAILS

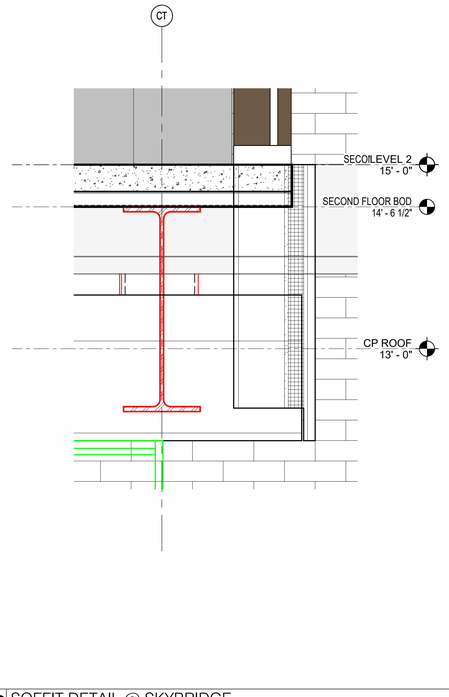
A-428

0"
1"

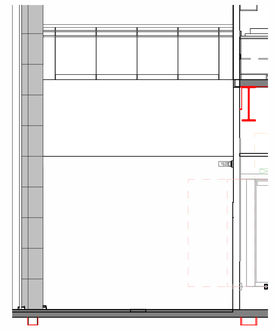
ENLARGED SKYBRIDGE ELEVATIONS & SECTIONS
A-429
FOR BLUEBEAM LABELING/DOOR:



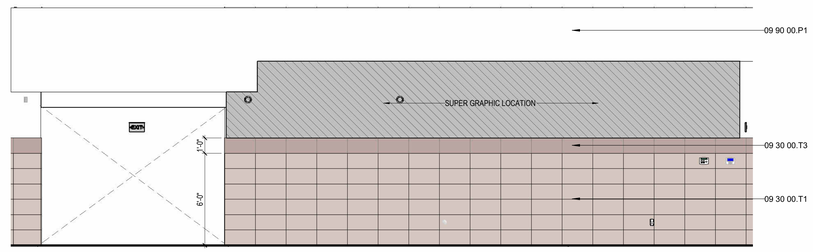
07 DETAIL @ SKYBRIDGE
1 1/2" = 1'-0"



06 SOFFIT DETAIL @ SKYBRIDGE
1 1/2" = 1'-0"

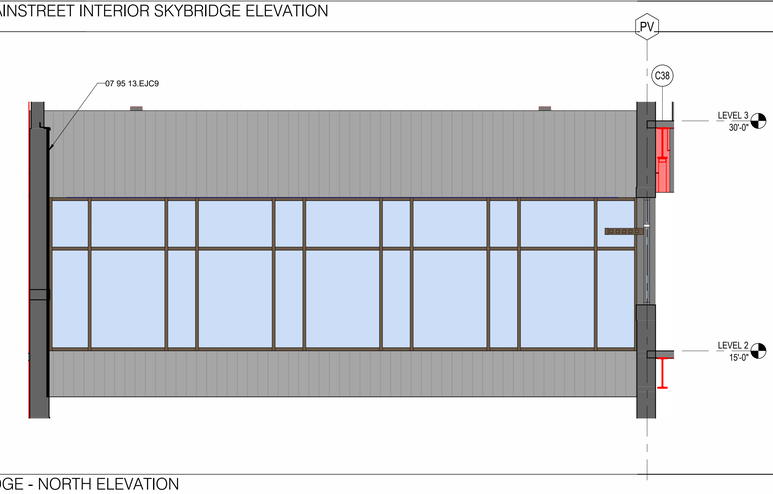


04 WEST MAINSTREET INTERIOR SKYBRIDGE ELEVATION
1/4" = 1'-0"

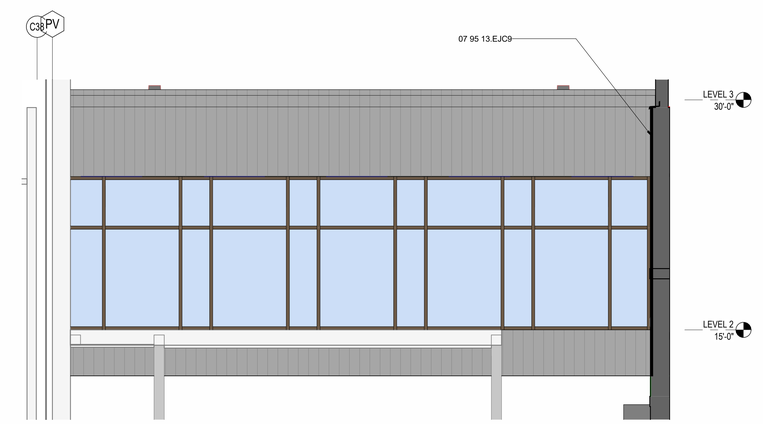


03 EAST MAINSTREET INTERIOR SKYBRIDGE ELEVATION
1/4" = 1'-0"

05 SECTION AT SKYBRIDGE
3/8" = 1'-0"



02 SKYBRIDGE - NORTH ELEVATION
1/4" = 1'-0"



01 SKYBRIDGE - SOUTH ELEVATION
1/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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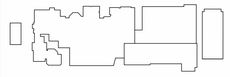
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

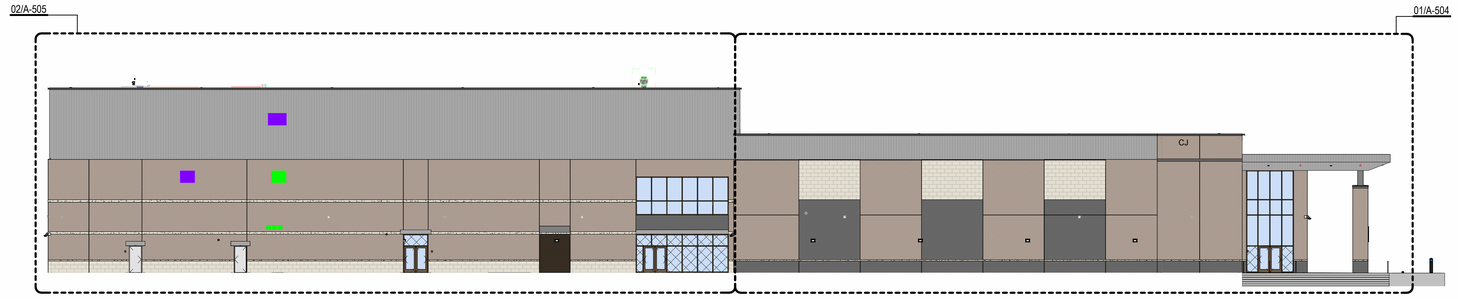
ENLARGED SKYBRIDGE ELEVATIONS & SECTIONS

A-429

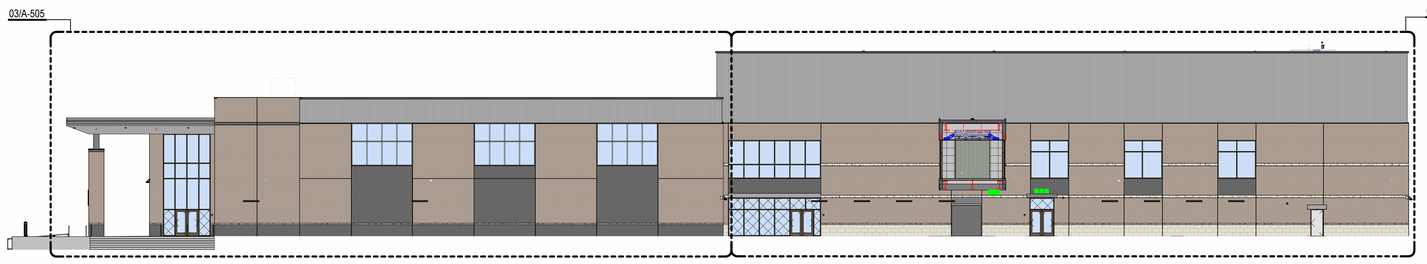
Plot Stamp:
12/5/2025 3:04:17 PM

0"
1"

OVERALL EXTERIOR ELEVATIONS
A-501
FOR BLUEBEAM LABELING/DOOR:



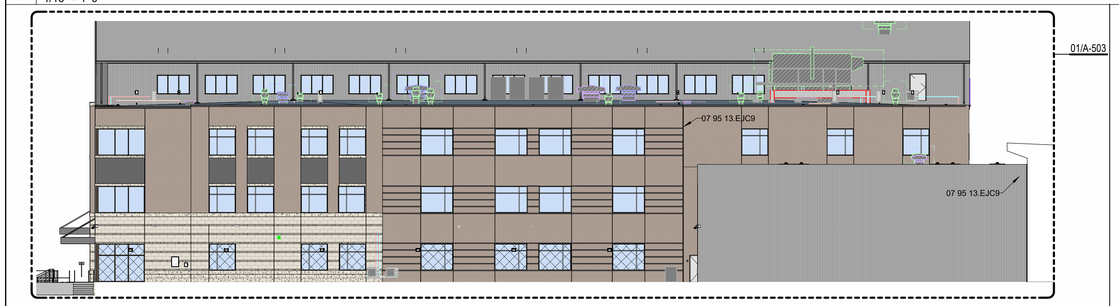
07 OVERALL EXTERIOR ELEVATION - GYM SOUTH
1/16" = 1'-0"



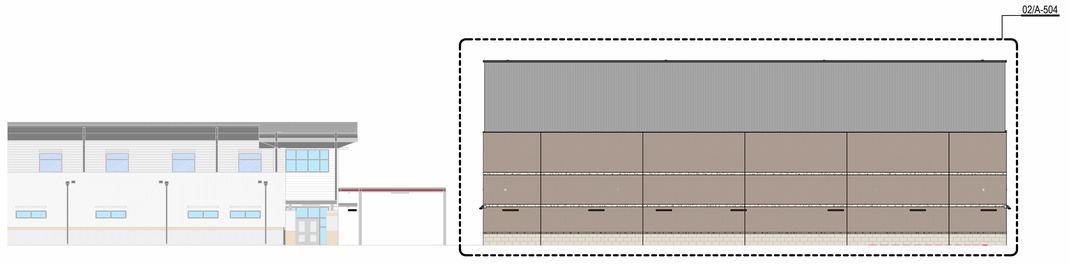
06 OVERALL EXTERIOR ELEVATION - GYM NORTH
1/16" = 1'-0"



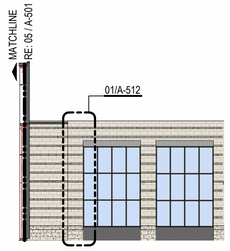
05 OVERALL EXTERIOR ELEVATION - EAST
1/16" = 1'-0"



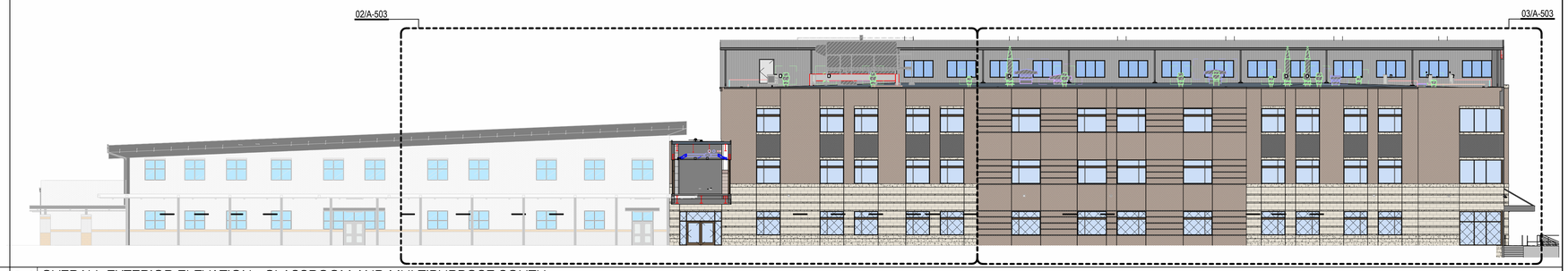
04 OVERALL EXTERIOR ELEVATION - CLASSROOM AND MULTIPURPOSE NORTH
1/16" = 1'-0"



03 OVERALL EXTERIOR ELEVATION - WEST
1/16" = 1'-0"



02 OVERALL EXTERIOR ELEVATION - LIBRARY EAST
1/16" = 1'-0"



01 OVERALL EXTERIOR ELEVATION - CLASSROOM AND MULTIPURPOSE SOUTH
1/16" = 1'-0"

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12/5/2025 3:05:26 PM

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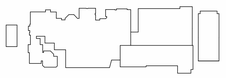
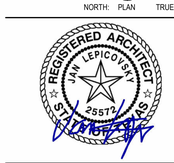


KEY PLAN
NORTH: PLAN = TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

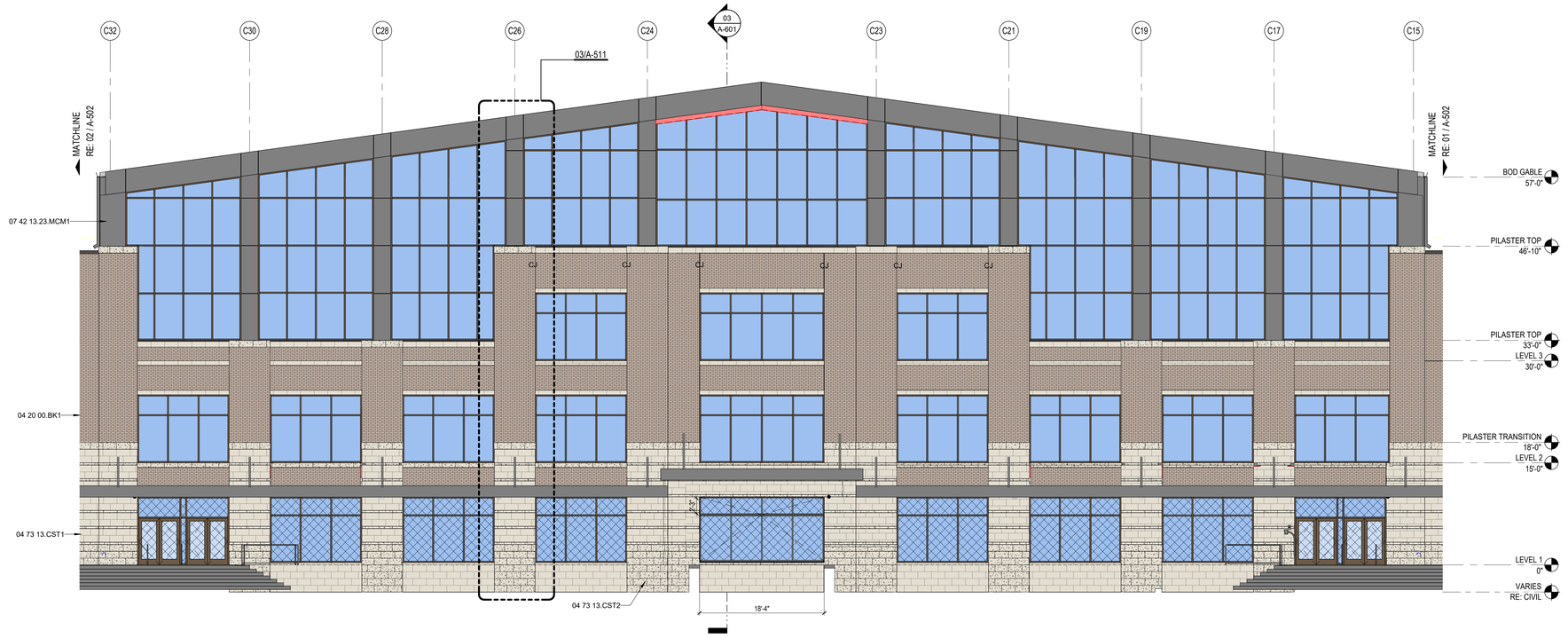
CHECKED BY: Checker
DRAWN BY: Author

OVERALL EXTERIOR ELEVATIONS

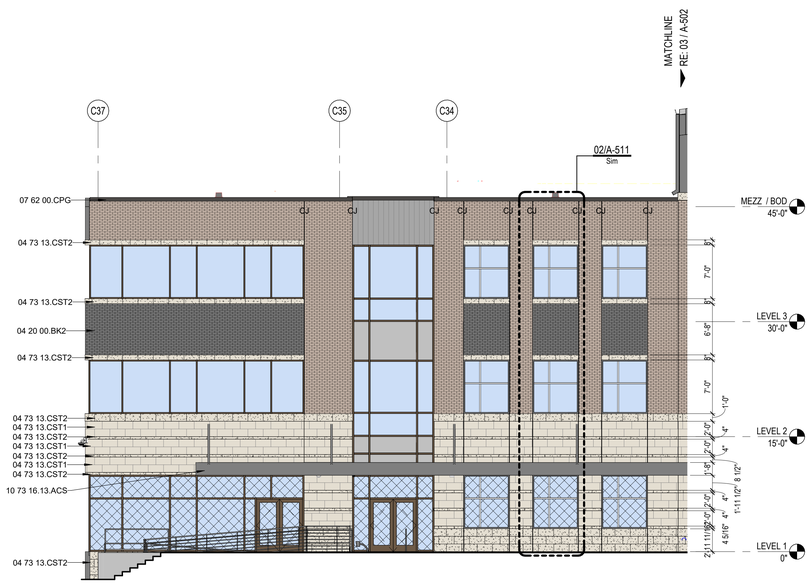
A-501

EXTERIOR ELEVATIONS
A-502
FOR BLUEBEAM LABELING/DOCR:

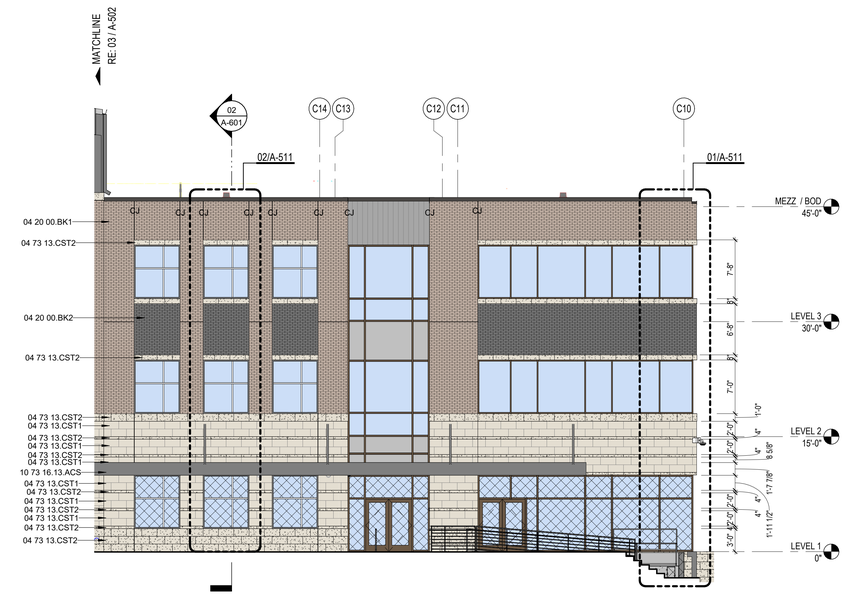
0"
1"



03 EXTERIOR ELEVATION - EAST 3
1/8" = 1'-0"



02 EXTERIOR ELEVATION - EAST 2
1/8" = 1'-0"



01 EXTERIOR ELEVATION - EAST 1
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42 13.23.MCM1	ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL, TYPE 1 - [DARK BRONZE]
07 62 00.CPG	PRE-FINISHED METAL COPING
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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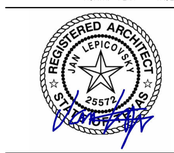
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

EXTERIOR ELEVATIONS

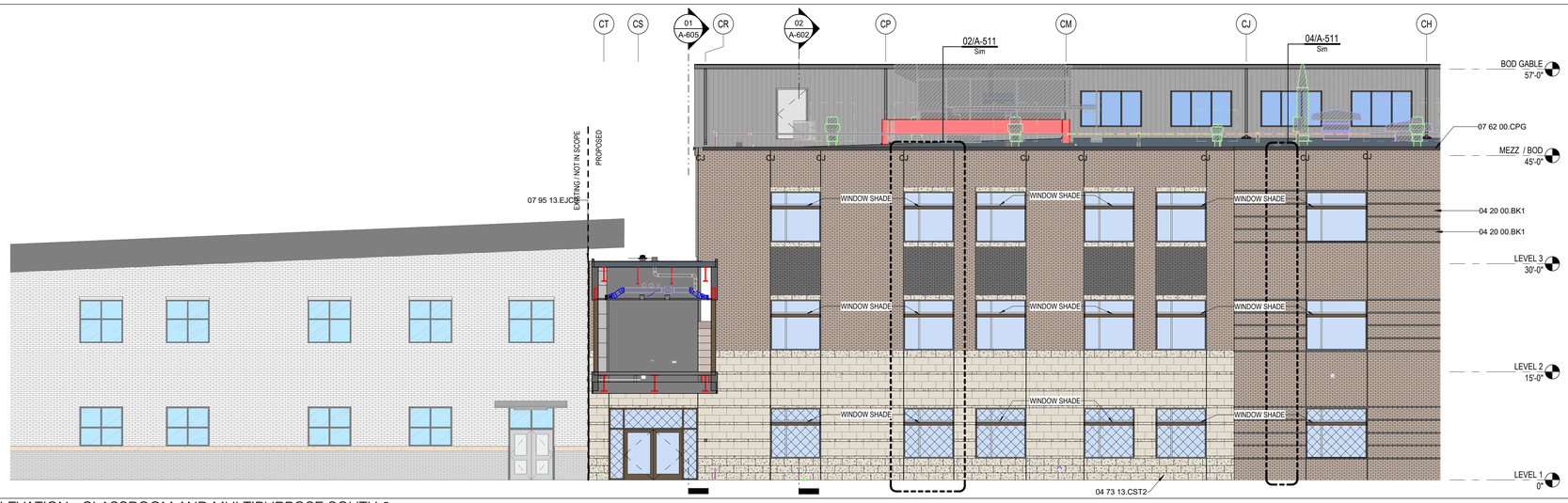
A-502

Plot Stamp:
12/5/2025 3:05:32 PM

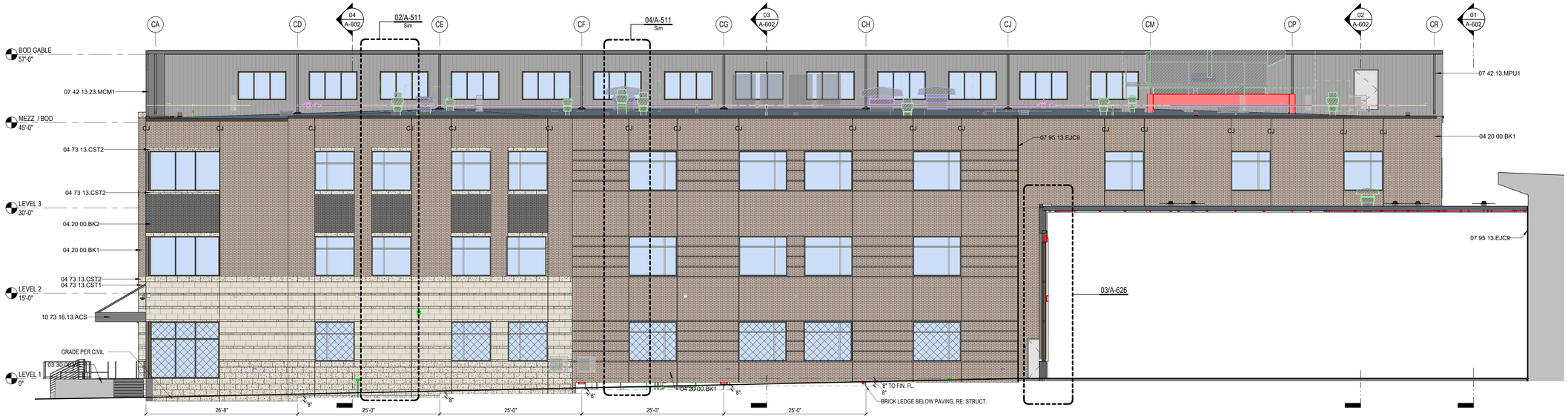
EXTERIOR ELEVATIONS
A-503
FOR BLUEBEAM LABELING/DOOR:



03 EXTERIOR ELEVATION - CLASSROOM AND MULTIPURPOSE SOUTH 1
1/8" = 1'-0"



02 EXTERIOR ELEVATION - CLASSROOM AND MULTIPURPOSE SOUTH 2
1/8" = 1'-0"



01 EXTERIOR ELEVATION - CLASSROOM AND MULTIPURPOSE NORTH
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.WL	CAST-IN-PLACE CONCRETE WALL
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42 13.23.MCM1	ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL, TYPE 1 - [DARK BRONZE]
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
07 95 13.EJC9	EXTERIOR, WALL, THERMAL-MOVEMENT JOINT COVER
08 43 13.SS	SUNSHADE OUTRIGGER SYSTEM, 30" DEPTH
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

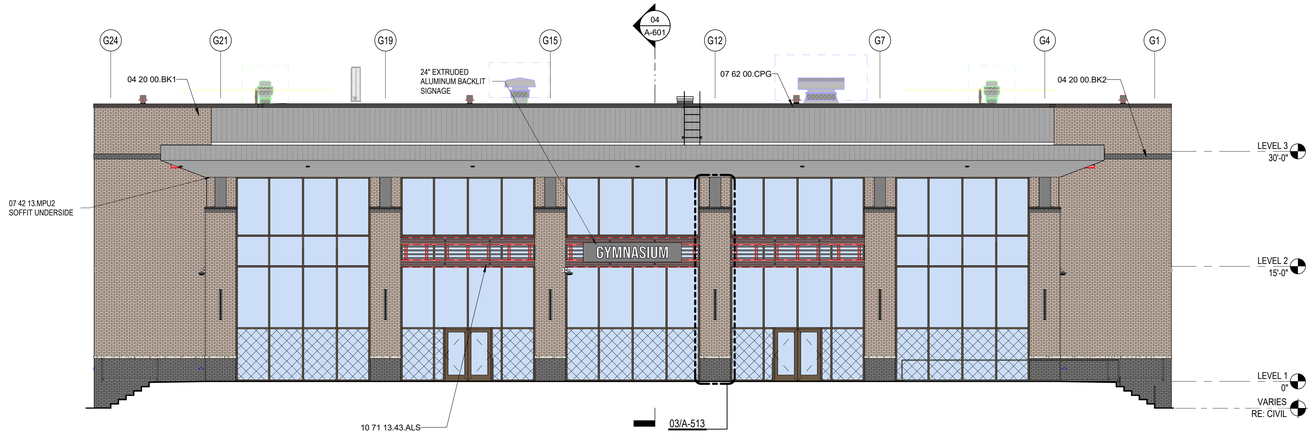
EXTERIOR ELEVATIONS

A-503

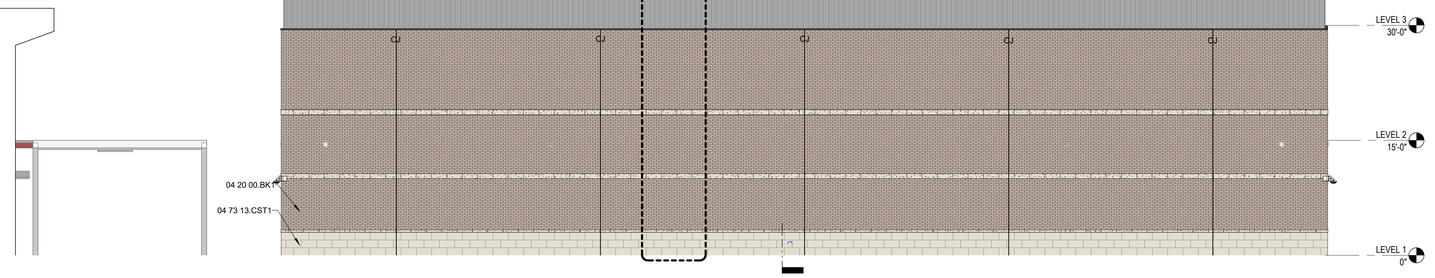
Plot Stamp:
12/5/2025 3:05:59 PM

0"
1"

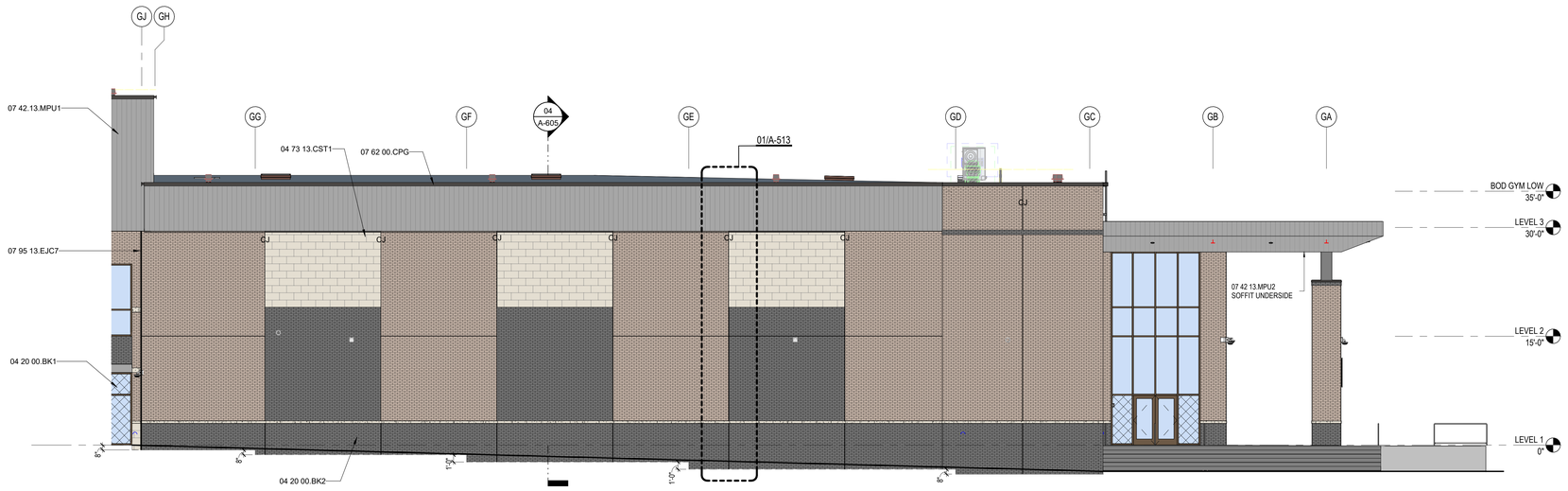
EXTERIOR ELEVATIONS
A-504
FOR BLUEBEAM LABELING/OCR:



03 EXTERIOR ELEVATION - GYM EAST
1/8" = 1'-0"



02 EXTERIOR ELEVATION - GYM WEST
1/8" = 1'-0"



01 EXTERIOR ELEVATION - GYM SOUTH 1
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
10 71 13.43.ALS	ALUMINUM SUN SCREEN SYSTEM

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN / TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

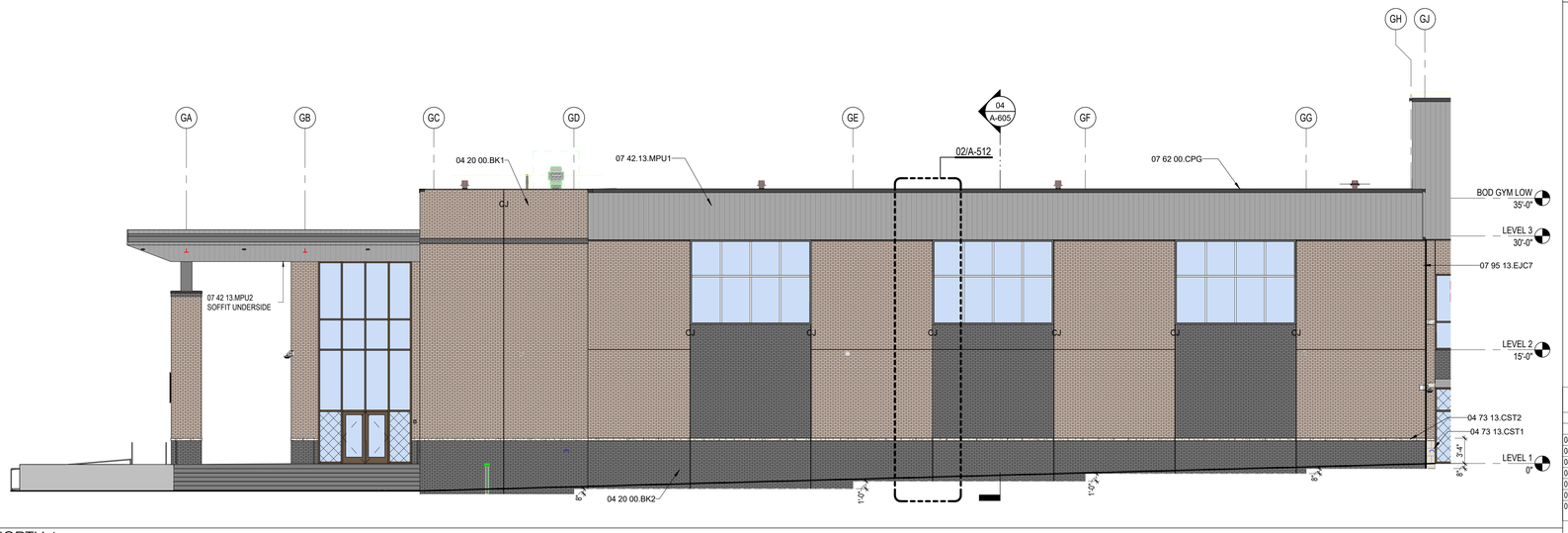
EXTERIOR ELEVATIONS

A-504

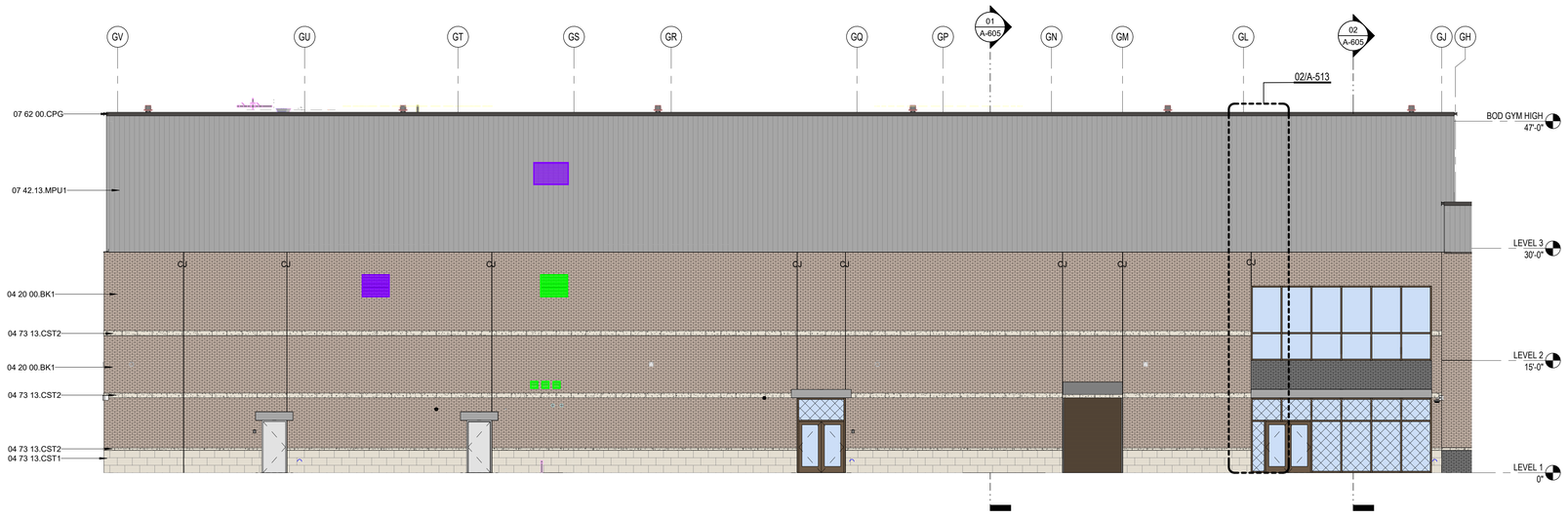
Plot Stamp:
12/5/2025 3:06:10 PM

EXTERIOR ELEVATIONS
A-505
FOR BLUEBEAM LABELING/DOCR:

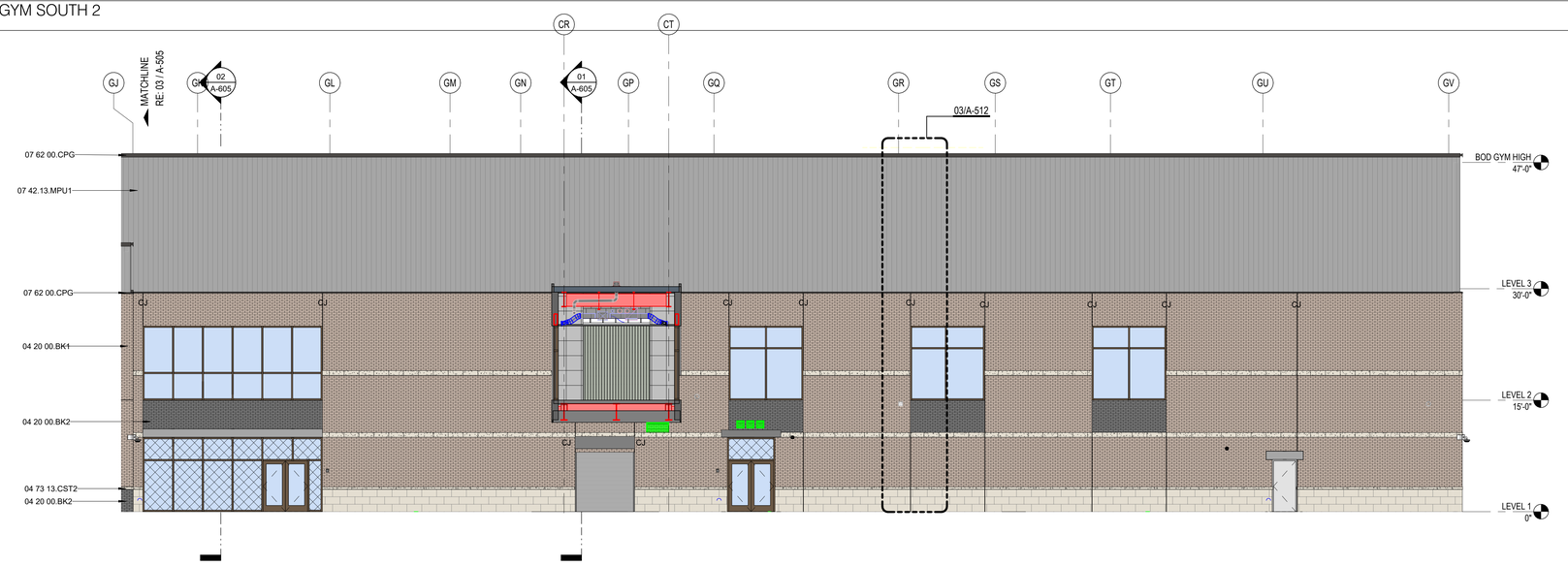
0"
1"



03 EXTERIOR ELEVATION - GYM NORTH 1
1/8" = 1'-0"



02 EXTERIOR ELEVATION - GYM SOUTH 2
1/8" = 1'-0"



01 EXTERIOR ELEVATION - GYM NORTH 2
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

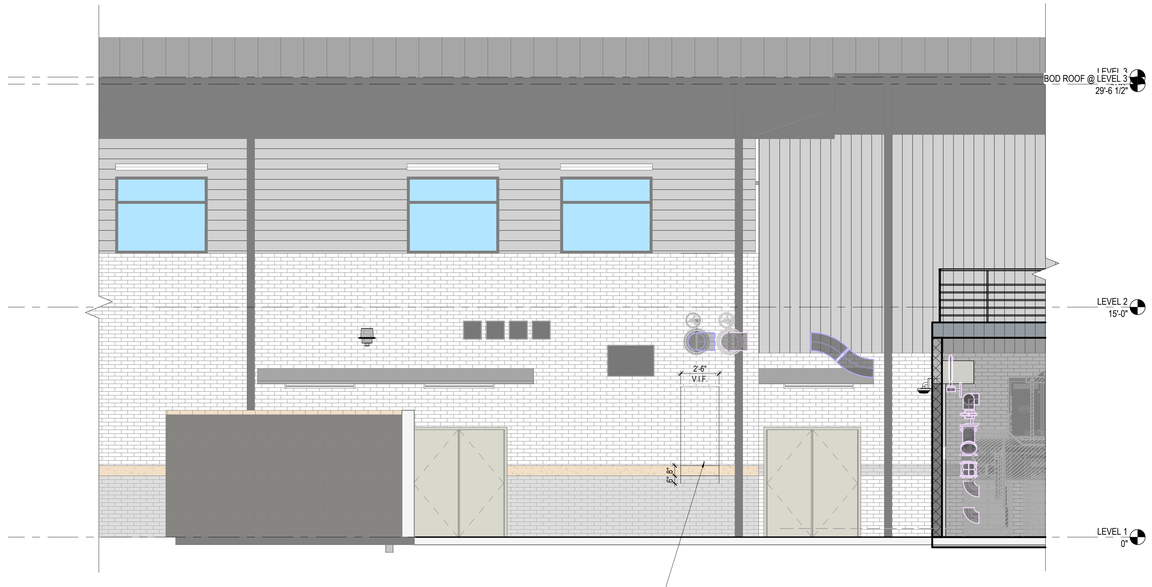
EXTERIOR ELEVATIONS

A-505

Plot Stamp:
12/5/2025 3:06:17 PM

0"
1"

EXTERIOR ELEVATIONS - EXISTING
A-506
FOR BLUEBEAM LABELING/DOCR:



01 EXTERIOR ELEVATIONS - EXISTING CTE
1/4" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

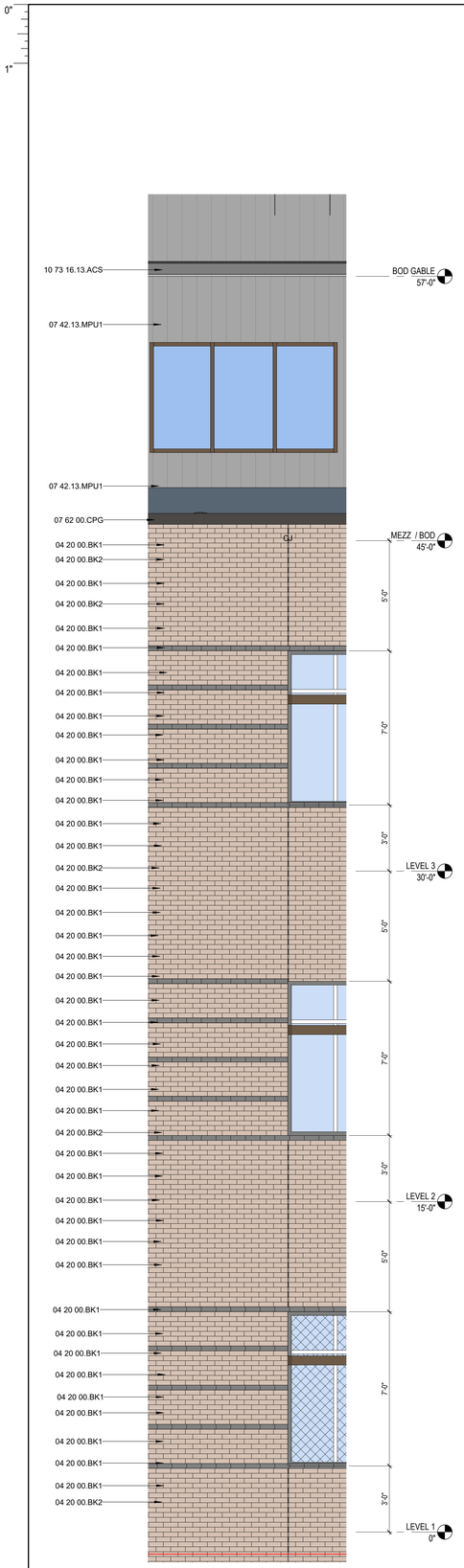
EXTERIOR ELEVATIONS - EXISTING

A-506

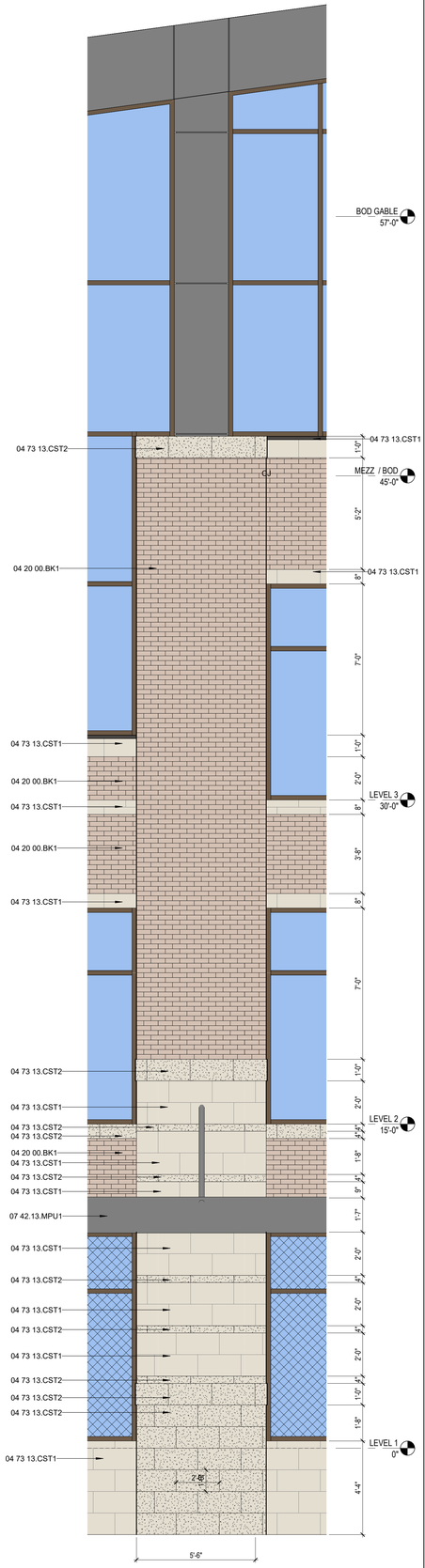
Plot Stamp:
12/5/2025 3:06:21 PM

ENLARGED EXTERIOR ELEVATIONS
A-511

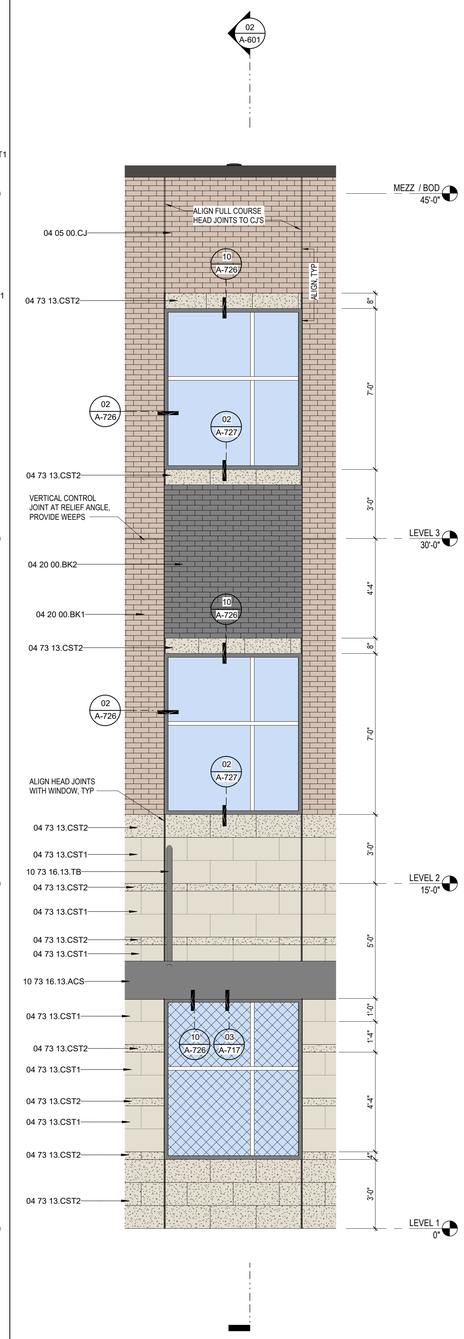
FOR BLUEBEAM LABELING/DOCR:



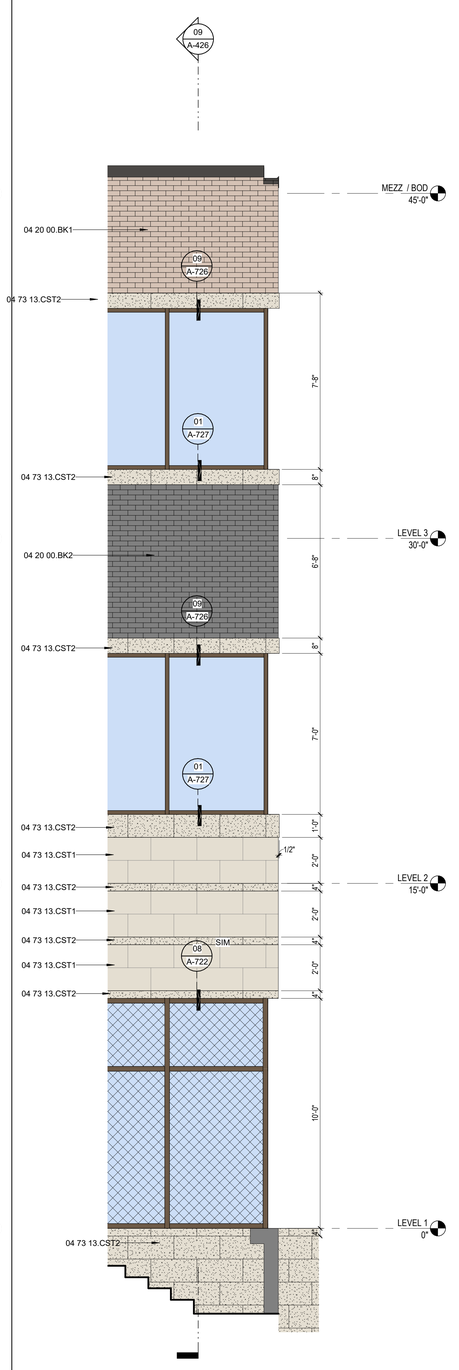
04 ENLG EXT ELEVATION - CLSRM & MULTIPRSE SOUTH 01
3/8" = 1'-0"



03 ENLARGED EXTERIOR ELEVATION - EAST 03
3/8" = 1'-0"



02 TYPICAL EXTERIOR ELEVATION - EAST 02
3/8" = 1'-0"



01 TYPICAL EXTERIOR ELEVATION - EAST 01
3/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 05 00.CJ	MASONRY CONTROL JOINT
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
10 73 16.13.TB	CANOPY TIE BACK, COORD. W/ STRUCT.

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN

NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: KMc

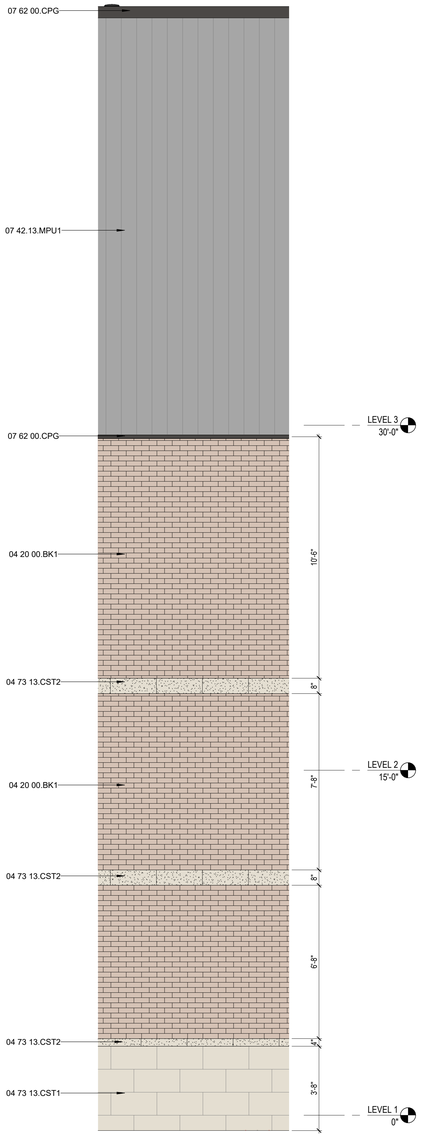
ENLARGED EXTERIOR ELEVATIONS

A-511

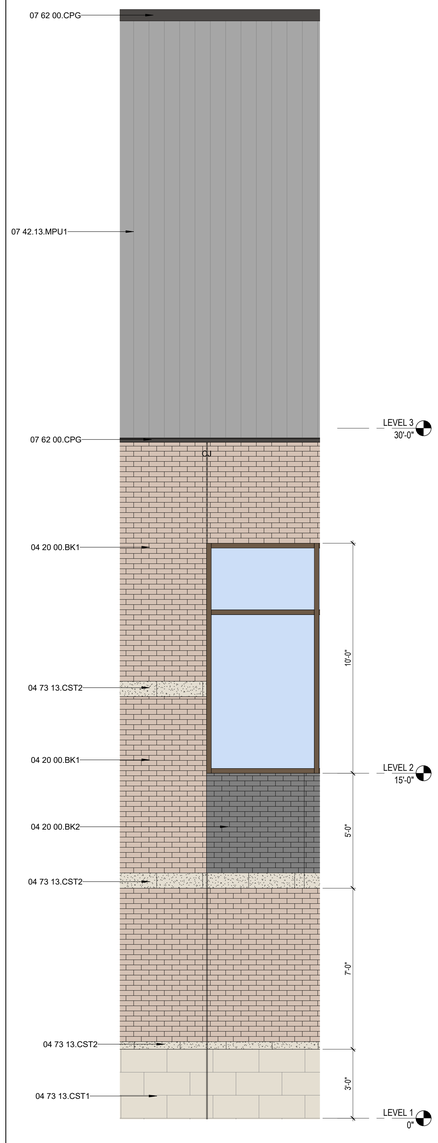
Plot Stamp:
12/5/2025 3:06:24 PM

ENLARGED EXTERIOR ELEVATIONS
A-512
FOR BLUEBEAM LABELING/DOCR:

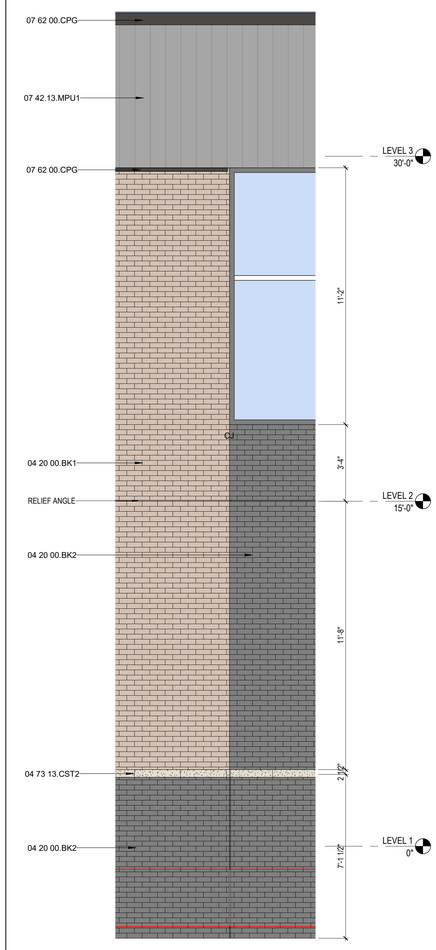
0"
1"



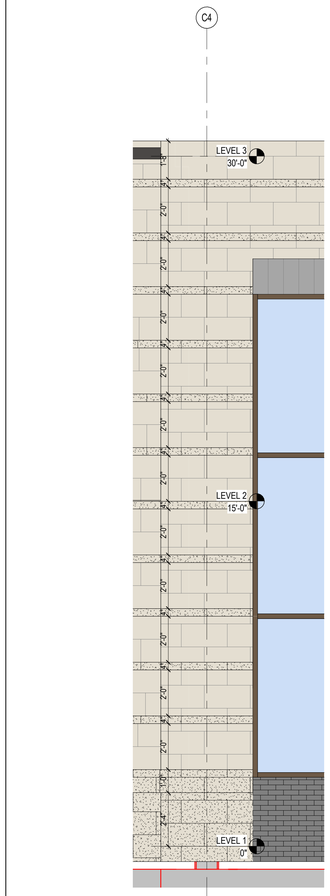
04 ENLARGED EXTERIOR ELEVATION - GYM WEST
3/8" = 1'-0"



03 ENLARGED EXTERIOR ELEVATION - GYM NORTH 02
3/8" = 1'-0"



02 ENLARGED EXTERIOR ELEVATION - GYM NORTH 01
3/8" = 1'-0"



01 ENLARGED EXTERIOR ELEVATION - LIBRARY EAST
3/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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HOUSTON, TX
713-865-0008

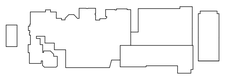
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

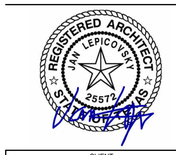
1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FOR ALL STUDENTS

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: KMc

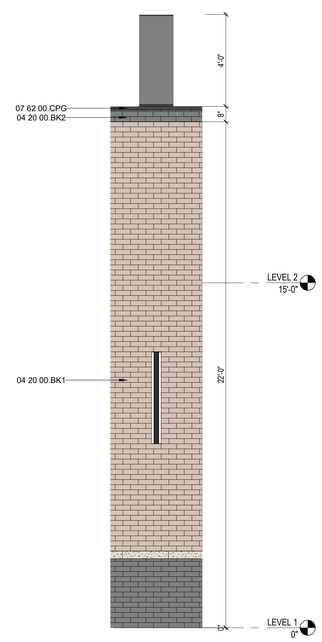
ENLARGED EXTERIOR ELEVATIONS

A-512

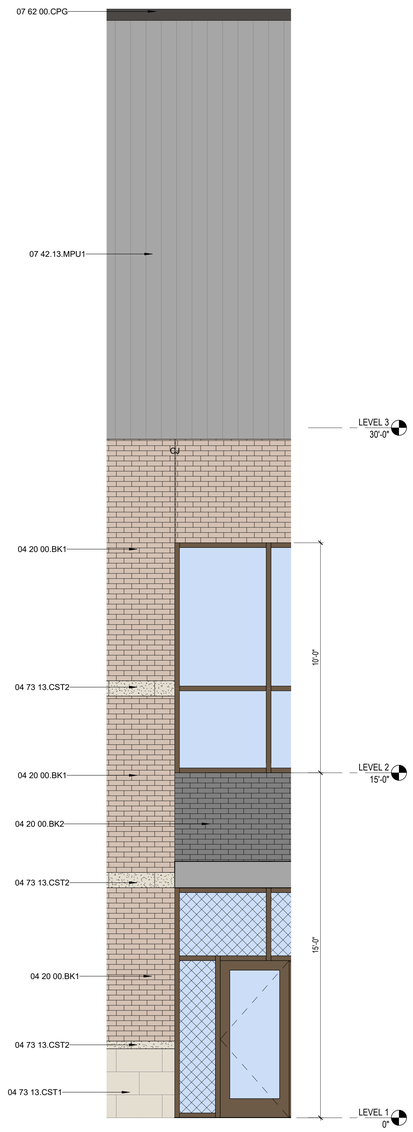
Plot Stamp:
12/5/2025 3:06:29 PM

0"
1"

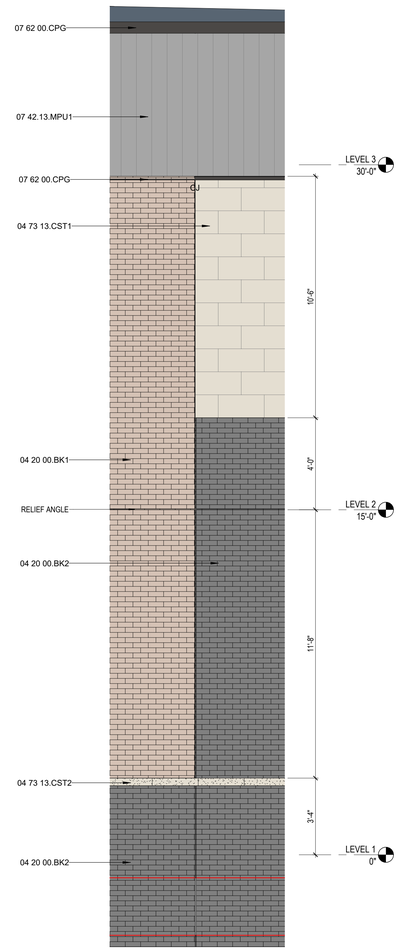
ENLARGED EXTERIOR ELEVATIONS
A-513
FOR BLUEBEAM LABELING/DCR:



03 EXTERIOR ELEV - GYM EAST ENTRANCE TYP. PILASTER
3/8" = 1'-0"



02 ENLARGED EXTERIOR ELEVATION - GYM SOUTH 02
3/8" = 1'-0"



01 ENLARGED EXTERIOR ELEVATION - GYM SOUTH 01
3/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 3'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FOR ALL STUDENTS

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

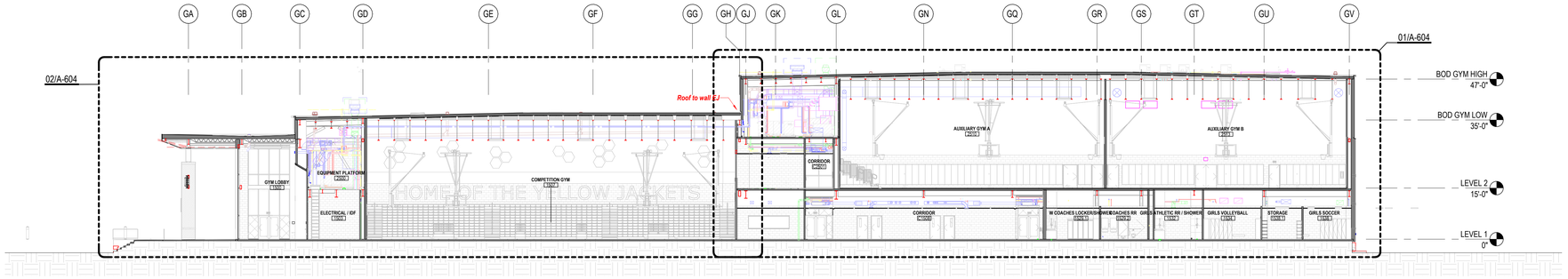
CHECKED BY: Checker
DRAWN BY: KMc

ENLARGED EXTERIOR ELEVATIONS

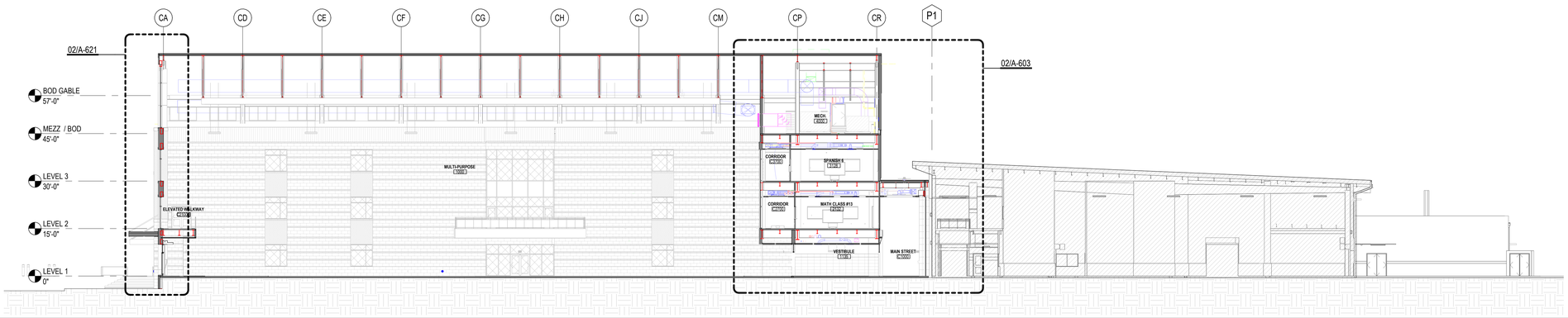
A-513

Plot Stamp:
12/5/2025 3:06:32 PM

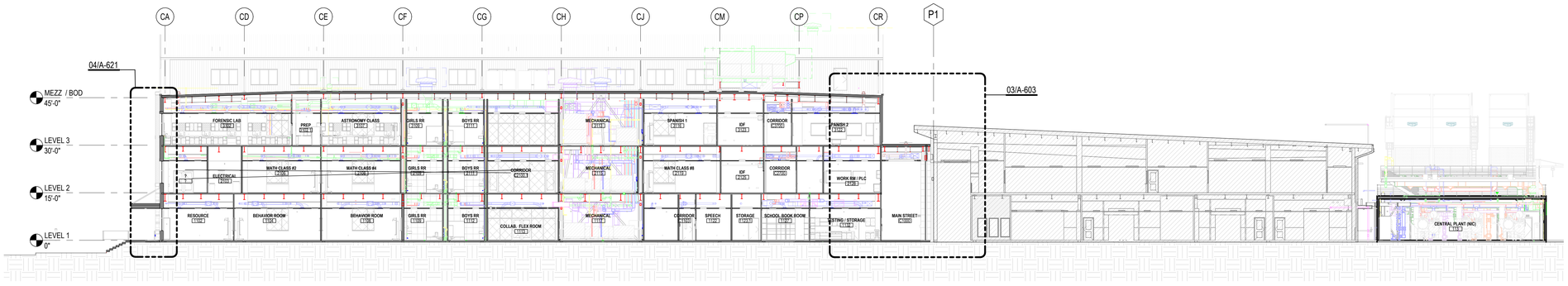
OVERALL BUILDING SECTIONS
A-601
FOR BLUEBEAM LABELING/OCR:



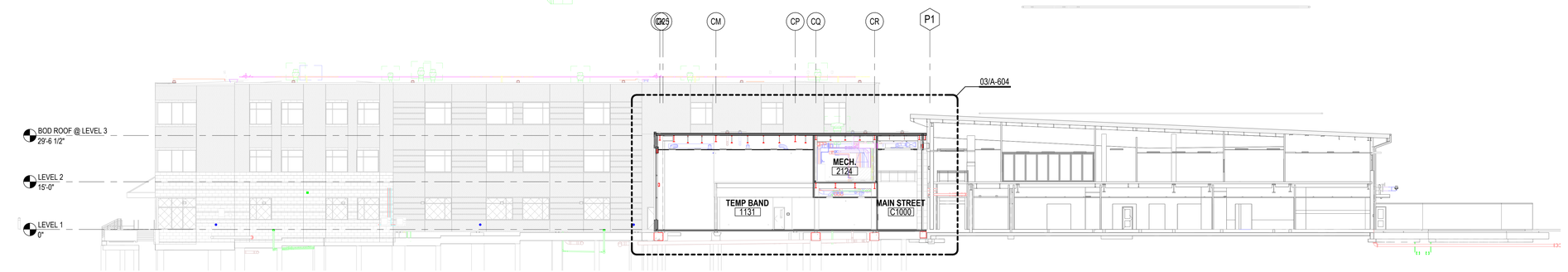
04 OVERALL BUILDING SECTION D
1/16" = 1'-0"



03 OVERALL BUILDING SECTION C
1/16" = 1'-0"



02 OVERALL BUILDING SECTION B
1/16" = 1'-0"



01 OVERALL BUILDING SECTION A
1/16" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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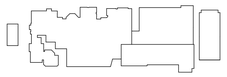
ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

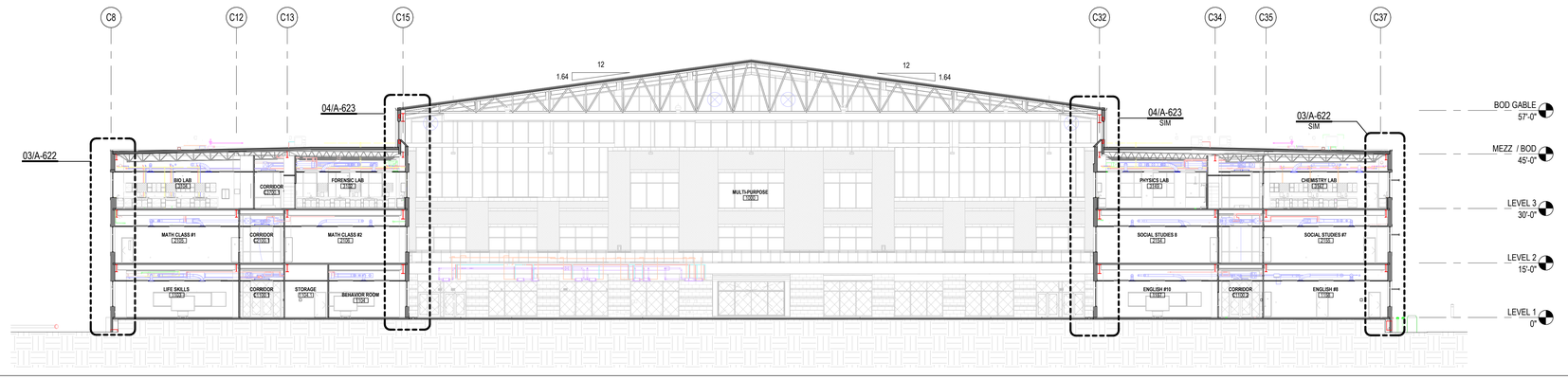
OVERALL BUILDING SECTIONS

A-601

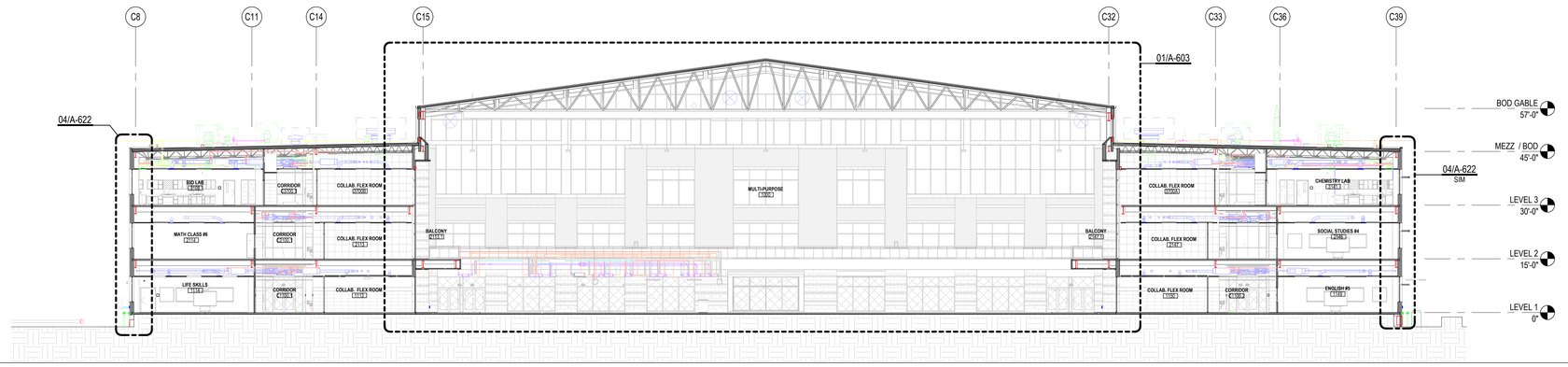
Plot Stamp:
12/5/2025 3:07:06 PM

OVERALL BUILDING SECTIONS
A-602
FOR BLUEBEAM LABELING/DOOR:

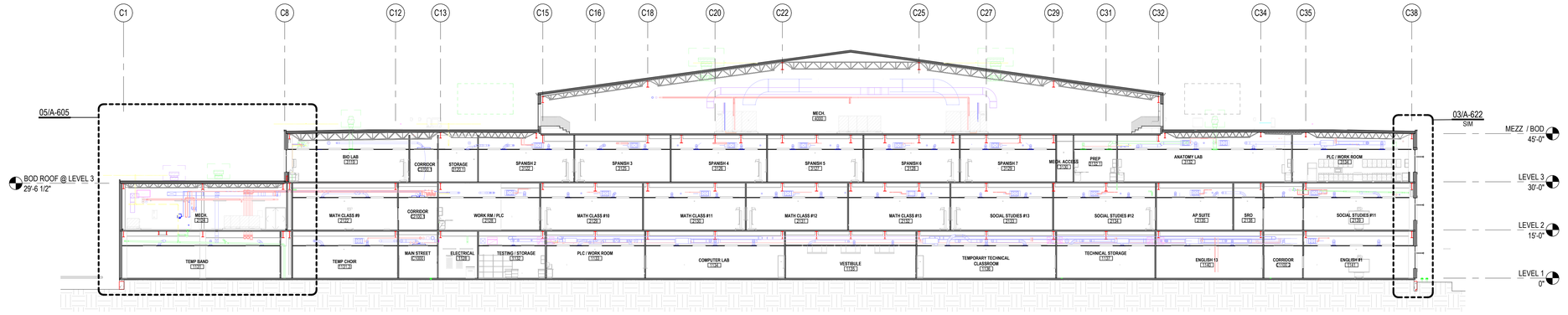
0"
1"



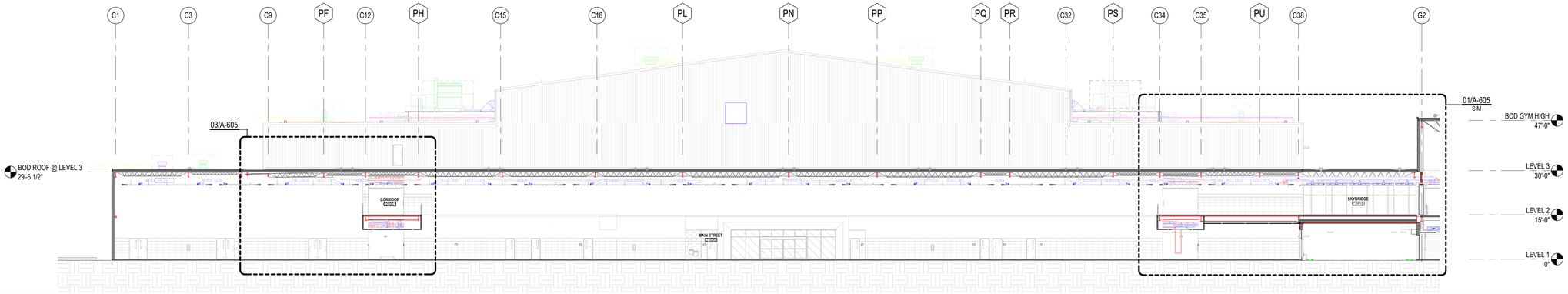
04 OVERALL BUILDING SECTION E
1/16" = 1'-0"



03 OVERALL BUILDING SECTION F
1/16" = 1'-0"



02 OVERALL BUILDING SECTION G
1/16" = 1'-0"



01 OVERALL BUILDING SECTION H
1/16" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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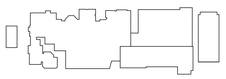
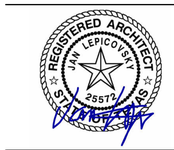


KEY PLAN
NORTH: PLAN = TRUE



CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

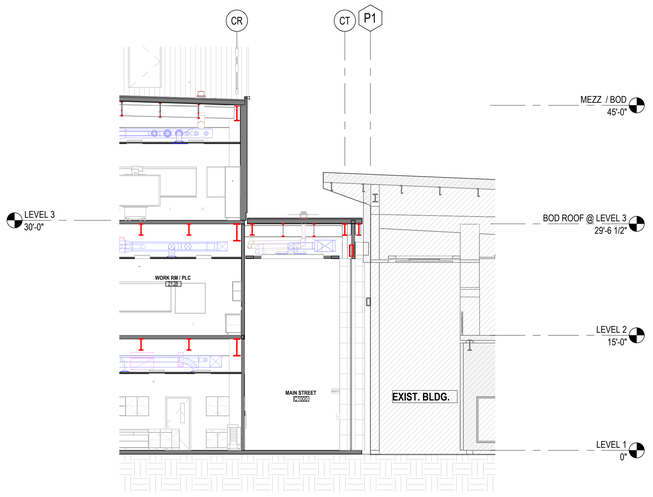
CHECKED BY: Checker
DRAWN BY: Author

OVERALL BUILDING SECTIONS

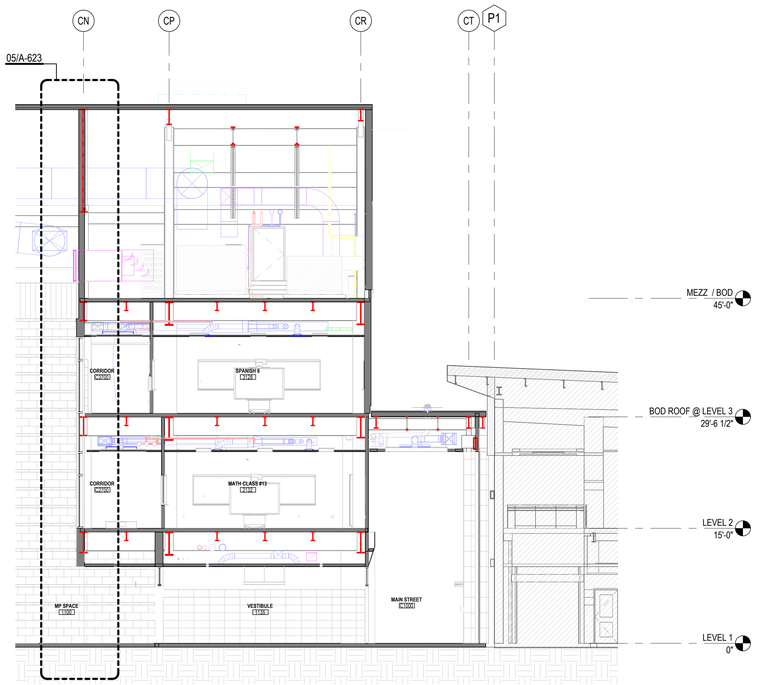
A-602

0"
1"

BUILDING SECTIONS
A-603
FOR BLUEBEAM LABELING/DOOR:



03 PARTIAL BUILDING SECTION @ MAIN STREET -4
1/8" = 1'-0"



02 PARTIAL BUILDING SECTION @ MAIN STREET - 3
1/8" = 1'-0"



01 PARTIAL BUILDING SECTION - MULTIPURPOSE FACILITY
1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

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DATE	PROJECT NUMBER
December 5, 2025	240539

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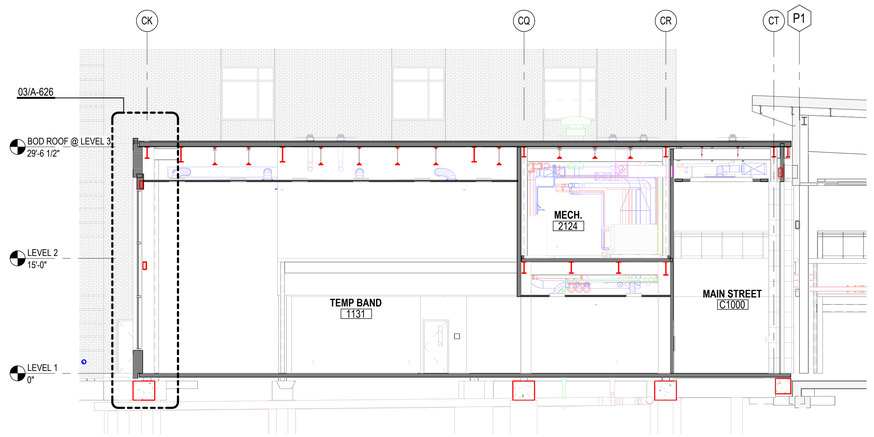
CHECKED BY: Checker
DRAWN BY: Author

BUILDING SECTIONS

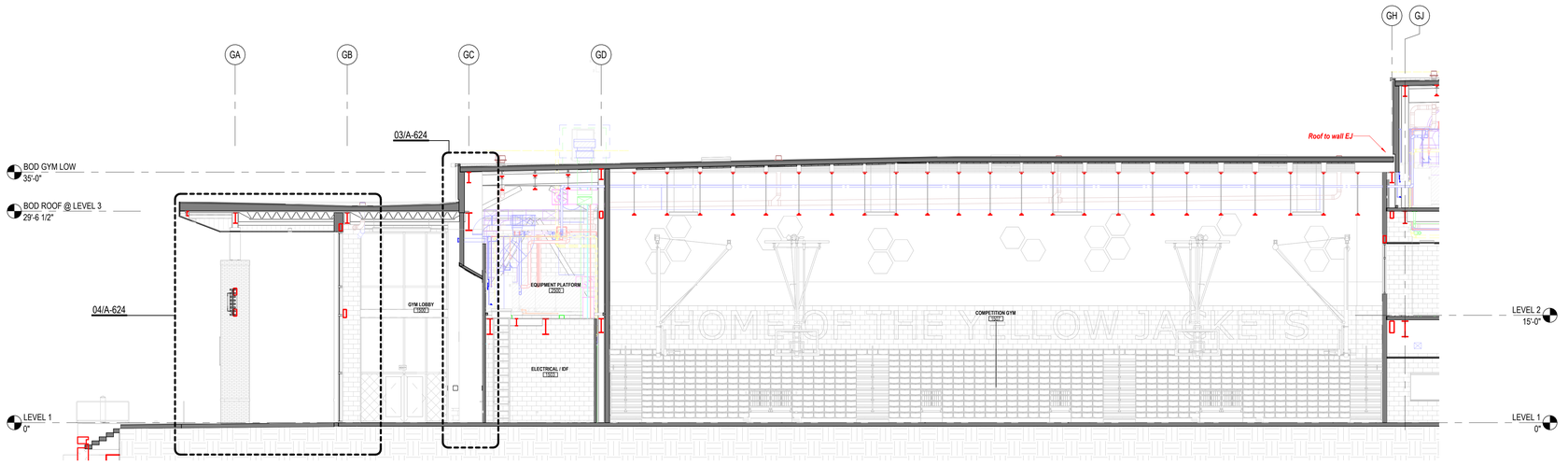
A-603

BUILDING SECTIONS
A-604
FOR BLUEBEAM LABELING/DOOR:

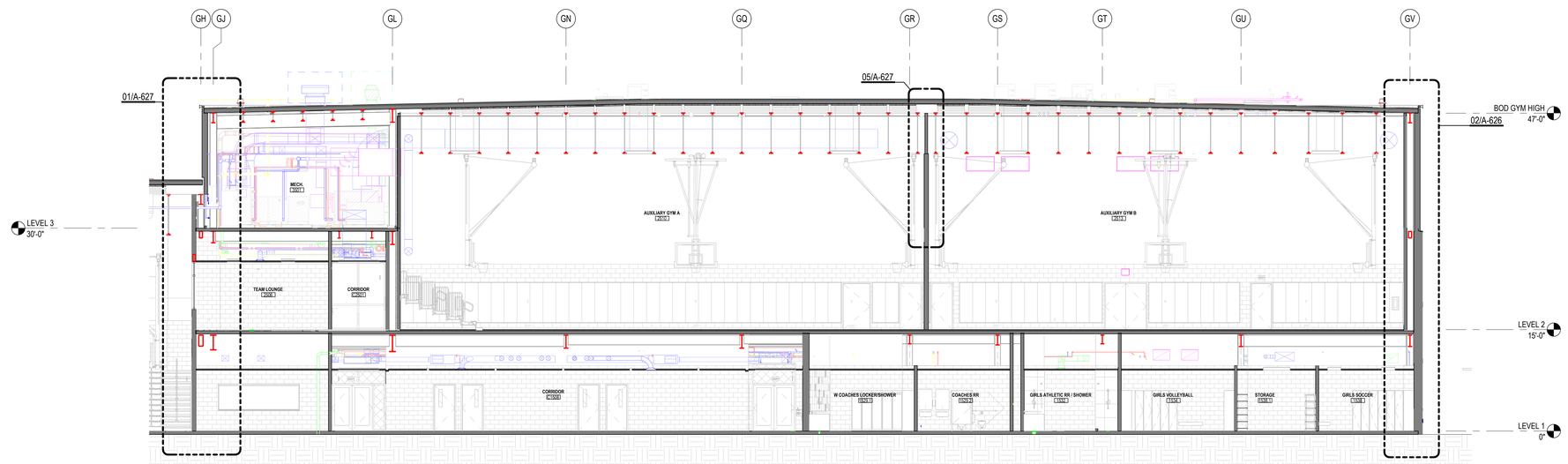
0"
1"



03 PARITAL SECTION @ TEMP BAND HALL
1/8" = 1'-0"



02 PARTIAL BUILDING SECTION - COMPETITION GYM LOOKING SOUTH
1/8" = 1'-0"



01 PARTIAL BUILDING SECTION - AUXILLARY GYM LOOKING SOUTH
1/8" = 1'-0"

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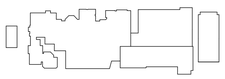
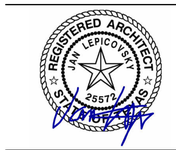


KEY PLAN
NORTH: PLAN TRUE



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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

BUILDING SECTIONS

A-604

Plot Stamp:
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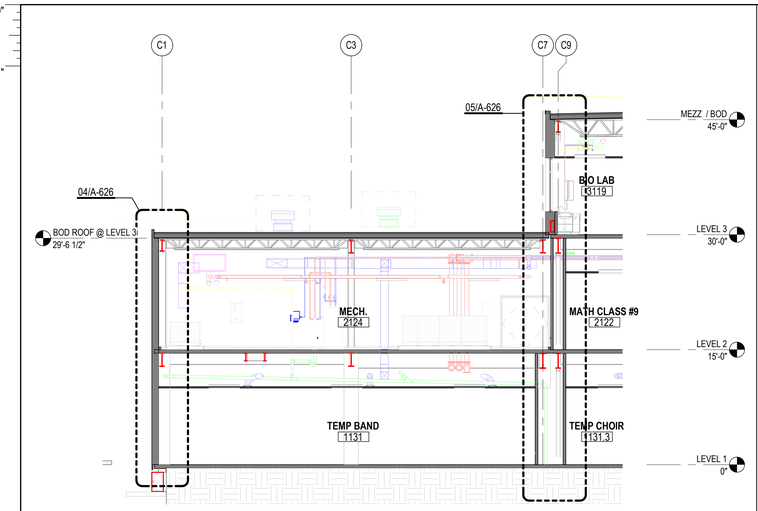
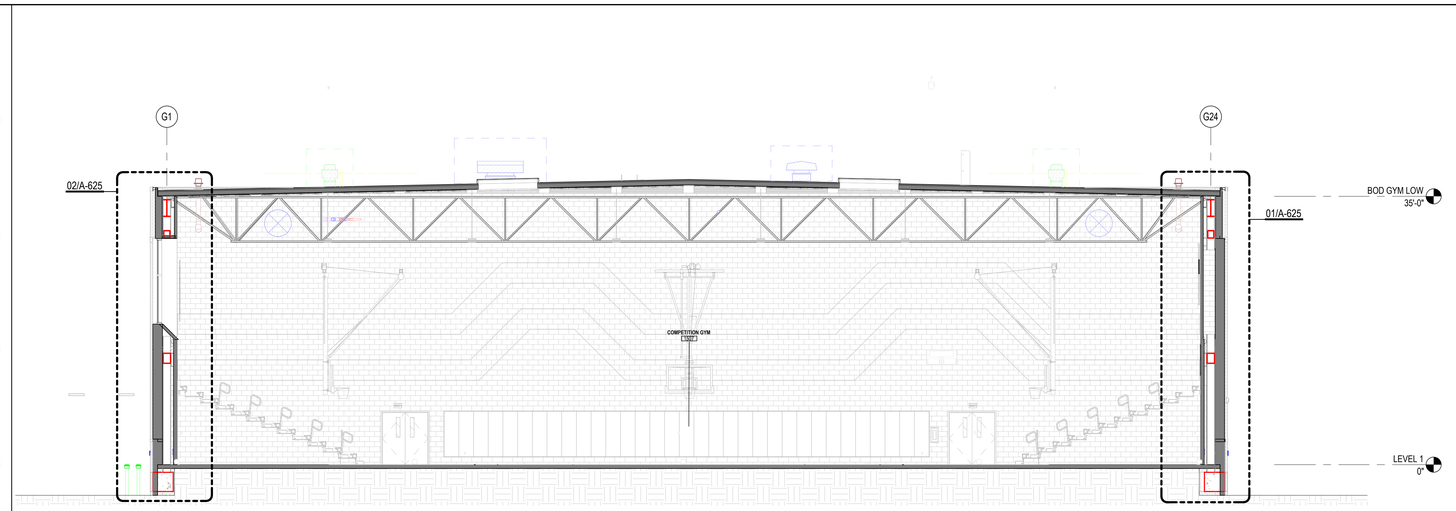
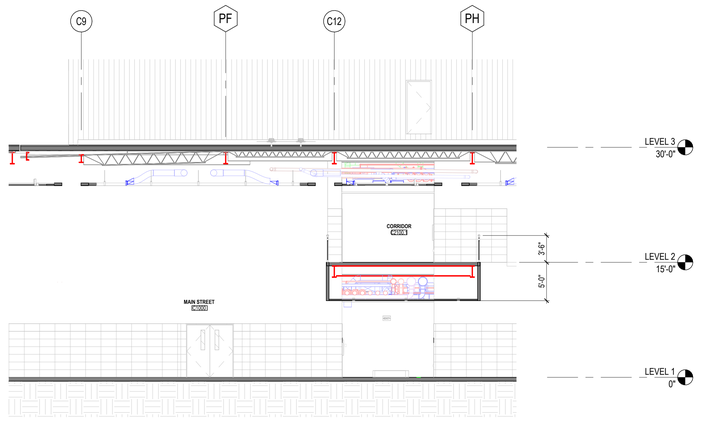
BUILDING SECTIONS
A-605
FOR BLUEBEAM LABELING/DOOR:



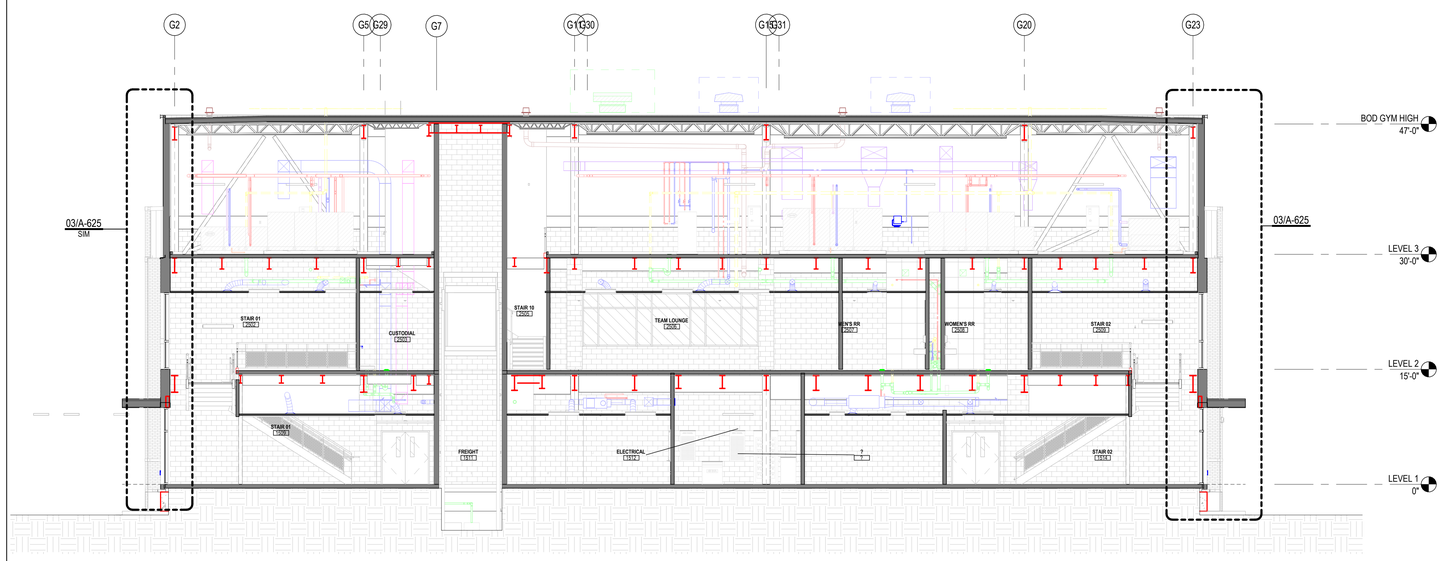
05 PARTIAL BUILDING SECTION @ MAIN STREET - 1
1/8" = 1'-0"



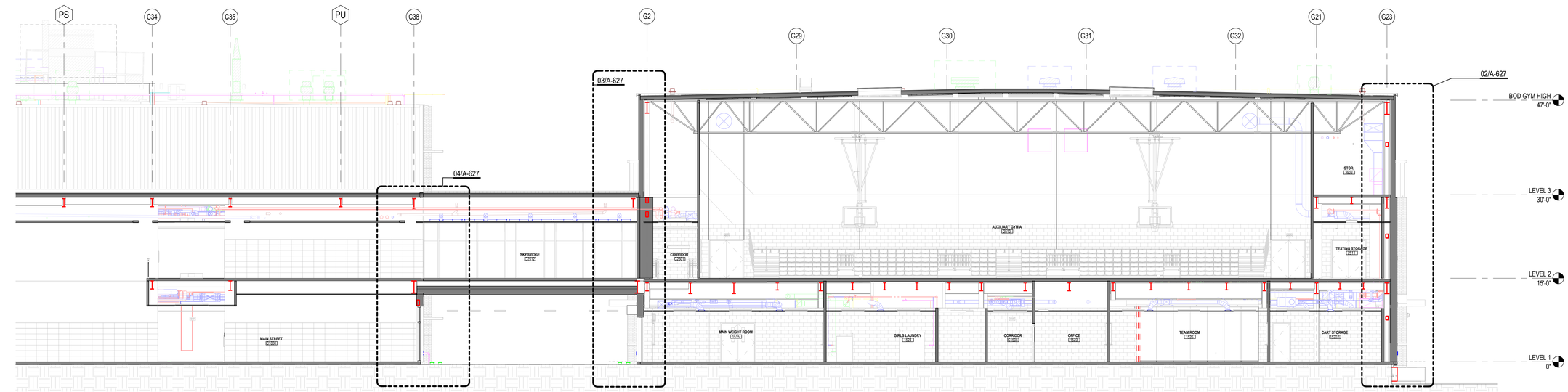
04 BUILDING SECTION H (PKG 3B)
1/8" = 1'-0"



03 PARTIAL BUILDING SECTION @ MAIN STREET 2
1/8" = 1'-0"



02 BUILDING SECTION J (PKG 3B)
1/8" = 1'-0"



01 BUILDING SECTION K (PKG 3B)
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

BUILDING SECTIONS

A-605

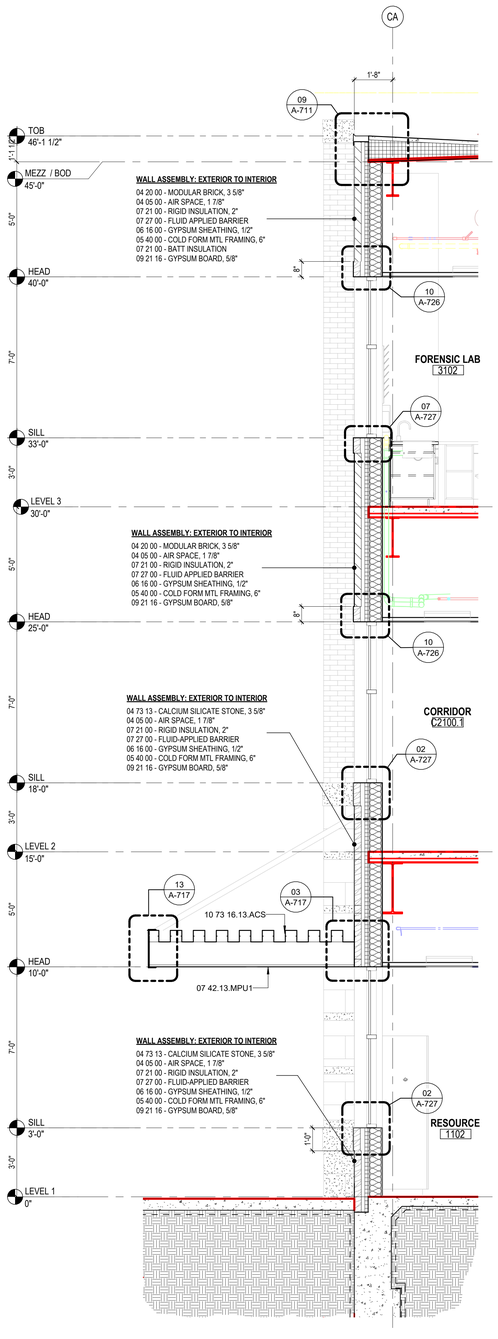
WALL SECTIONS
A-621

FOR BLUEBEAM LABELING/DOOR:

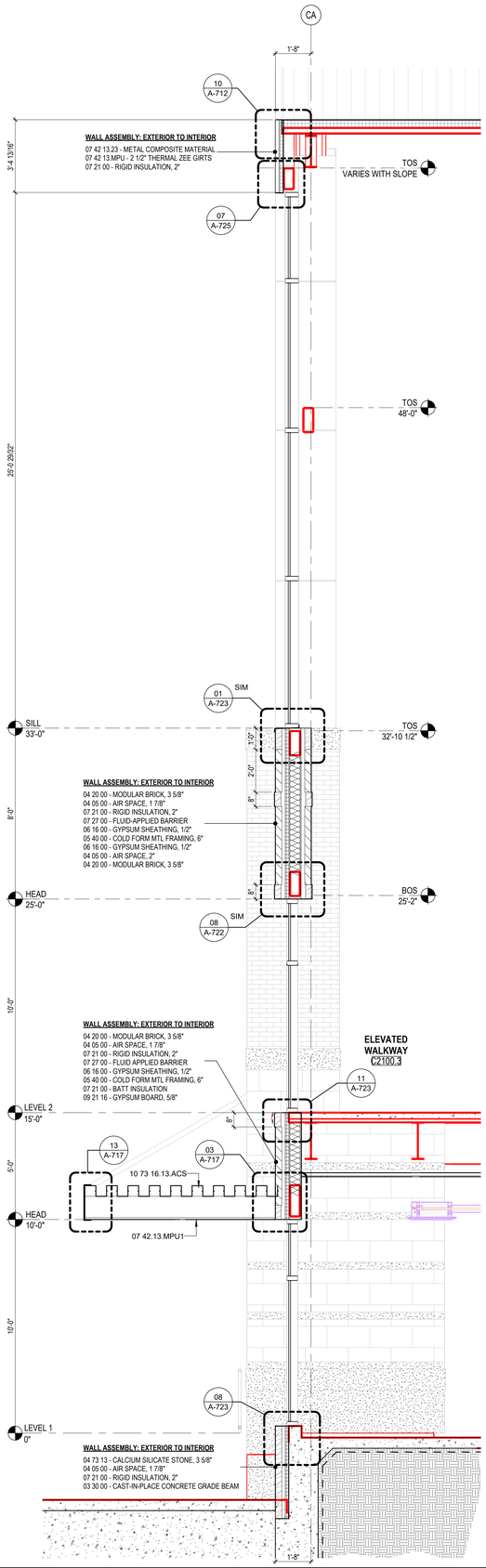
0"
1"

KEYNOTE LEGEND

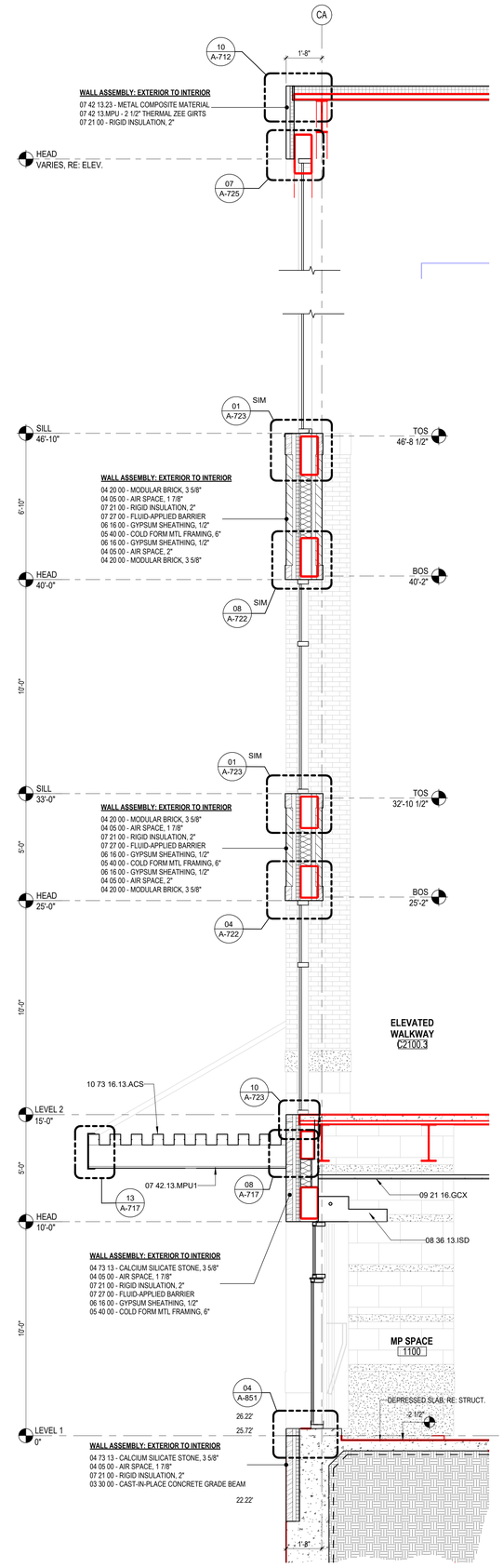
NUMBER	DESCRIPTION
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 81 23.IIC	INTERIOR INTUMESCENT COATING
08 36 13.ISD	INSULATED STEEL SECTIONAL DOOR
09 21 16.GCX	GYPSUM CEILING BOARD, 5/8" TYPE X FOR NON-RATED CEILING ASSEMBLIES
10.73 16.13.ACS	ALUMINUM CANOPY SYSTEM



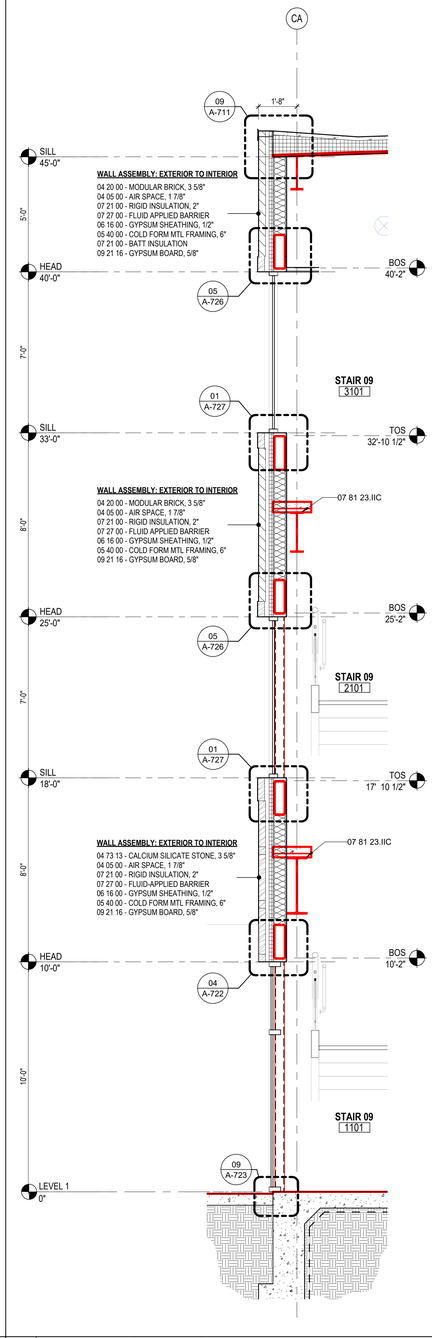
04 WALL SECTION @ EAST ELEV - 04
3/8" = 1'-0"



03 WALL SECTION @ EAST ELEV - 03
3/8" = 1'-0"



02 WALL SECTION @ EAST ELEV - 02
3/8" = 1'-0"



01 WALL SECTION @ EAST ELEV - 01
3/8" = 1'-0"

Plot Stamp:
12/5/2025 3:09:00 PM

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HOUSTON, TX
713-865-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: LG

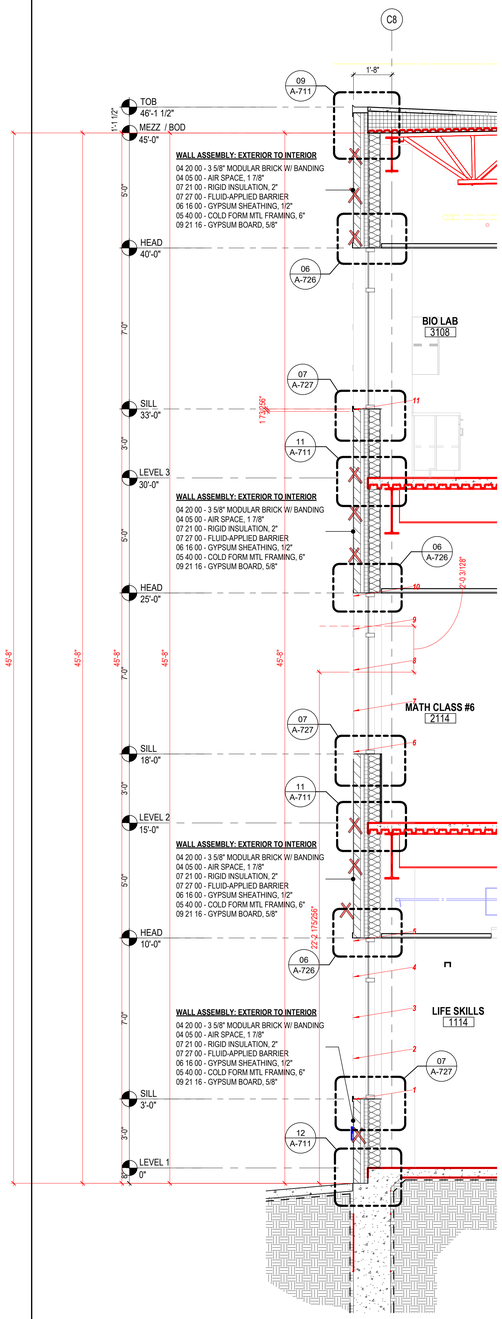
WALL SECTIONS

A-621

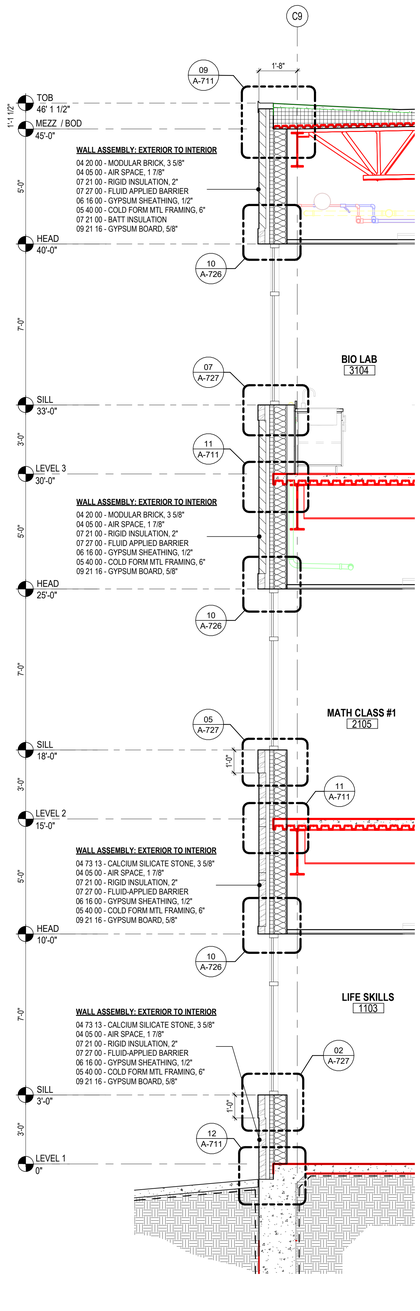
WALL SECTIONS
A-622
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

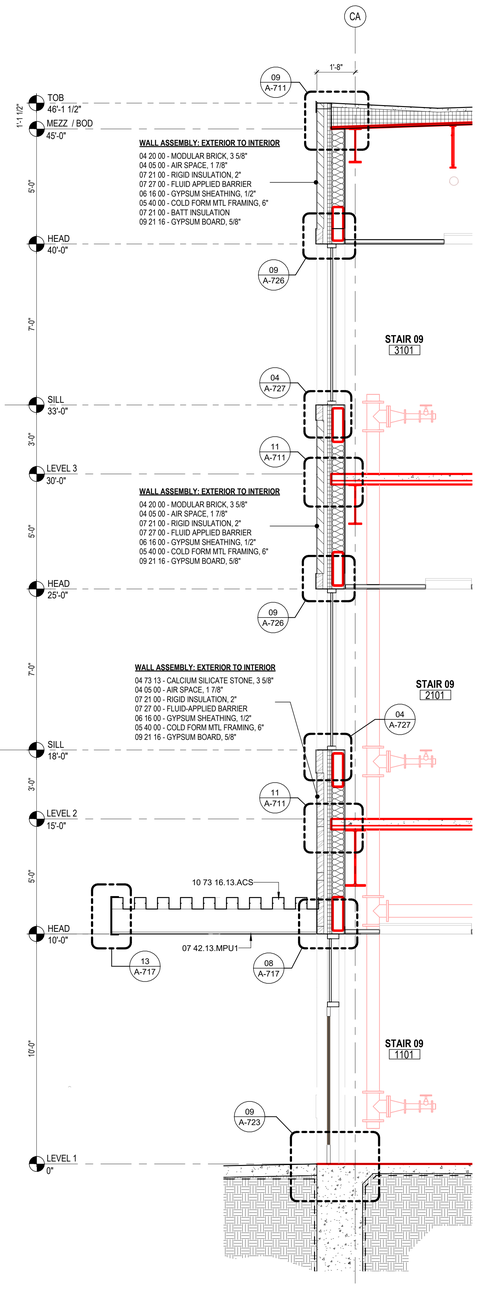
NUMBER	DESCRIPTION
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
10.73.16.13.ACS	ALUMINUM CANOPY SYSTEM



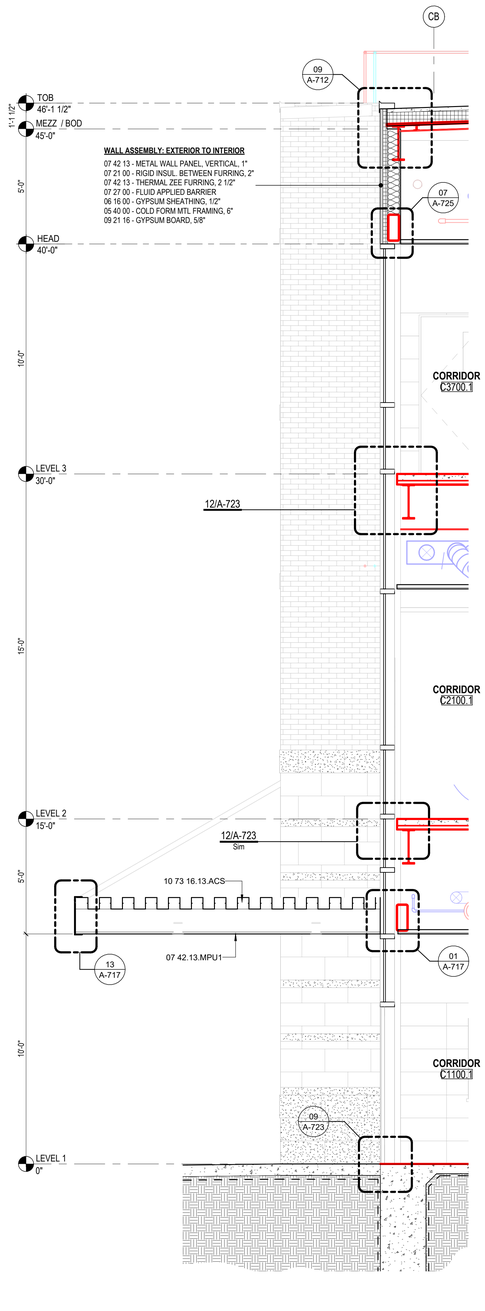
04 WALL SECTION @ NORTH ELEV - 02 (SOUTH SIM.)
3/8" = 1'-0"



03 WALL SECTION @ NORTH ELEV - 01 (SOUTH SIM.)
3/8" = 1'-0"



02 WALL SECTION @ EAST ELEV - 06
3/8" = 1'-0"



01 WALL SECTION @ EAST ELEV - 05
3/8" = 1'-0"

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12/5/2025 3:09:05 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD
DATE
December 5, 2025
PROJECT NUMBER
240539
DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: LG

WALL SECTIONS

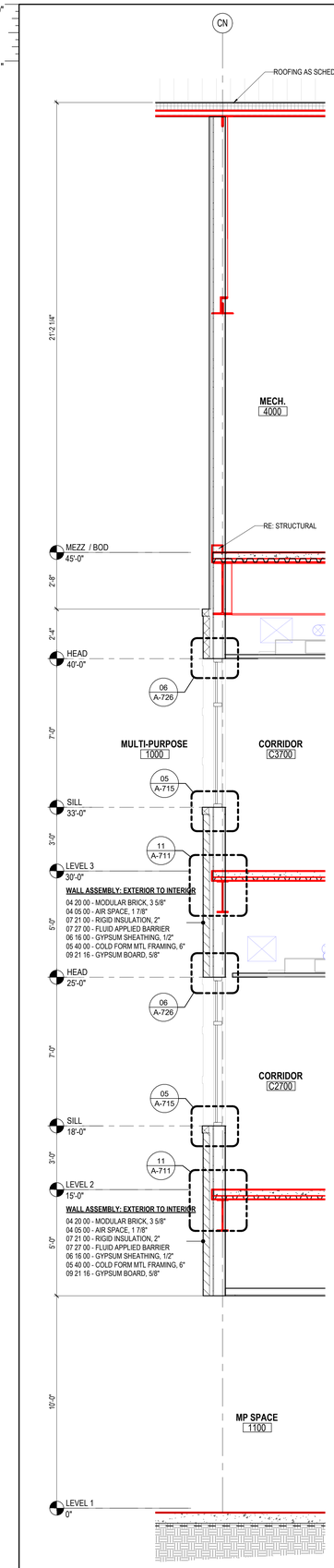
A-622

WALL SECTIONS
A-623

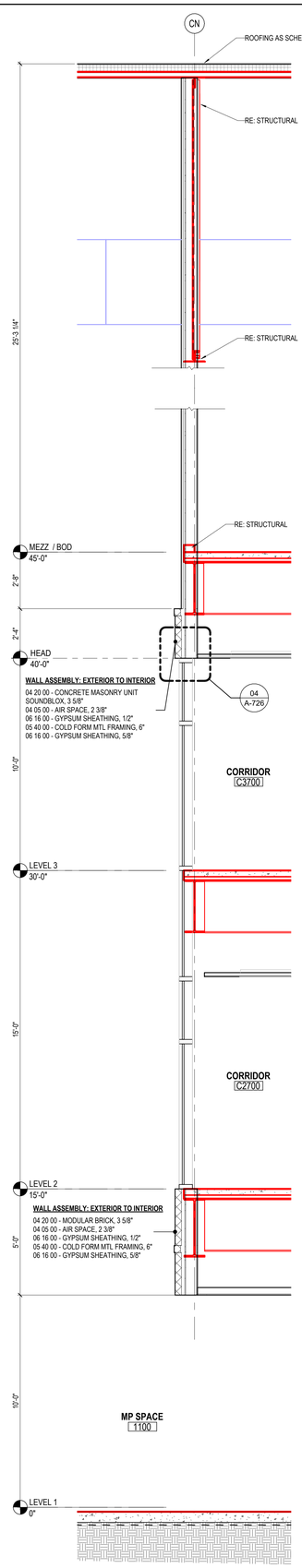
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

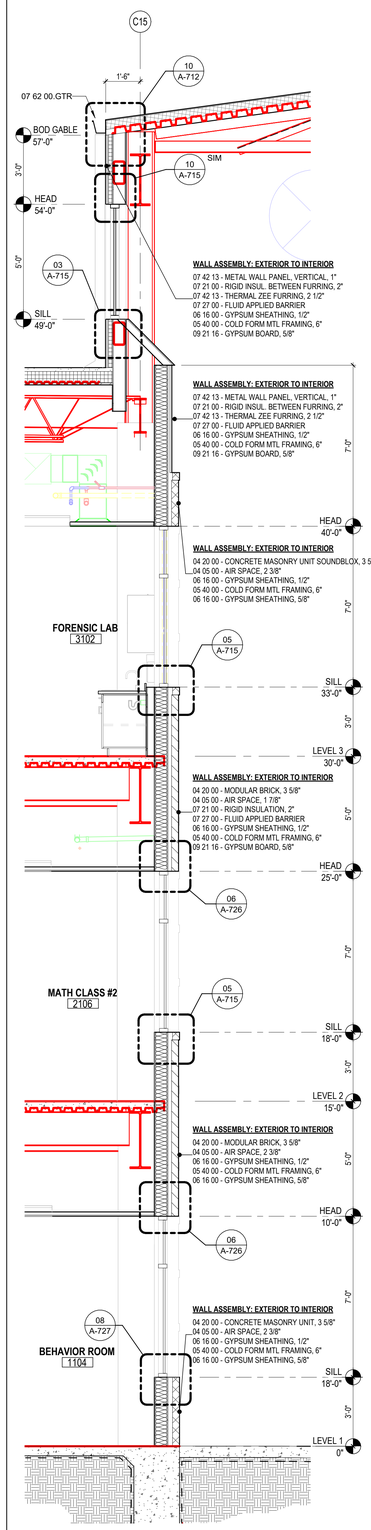
NUMBER	DESCRIPTION
04 73 13.CST2	
07 42 13.23.MCM1	ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL, TYPE 1 - [DARK BRONZE]
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM



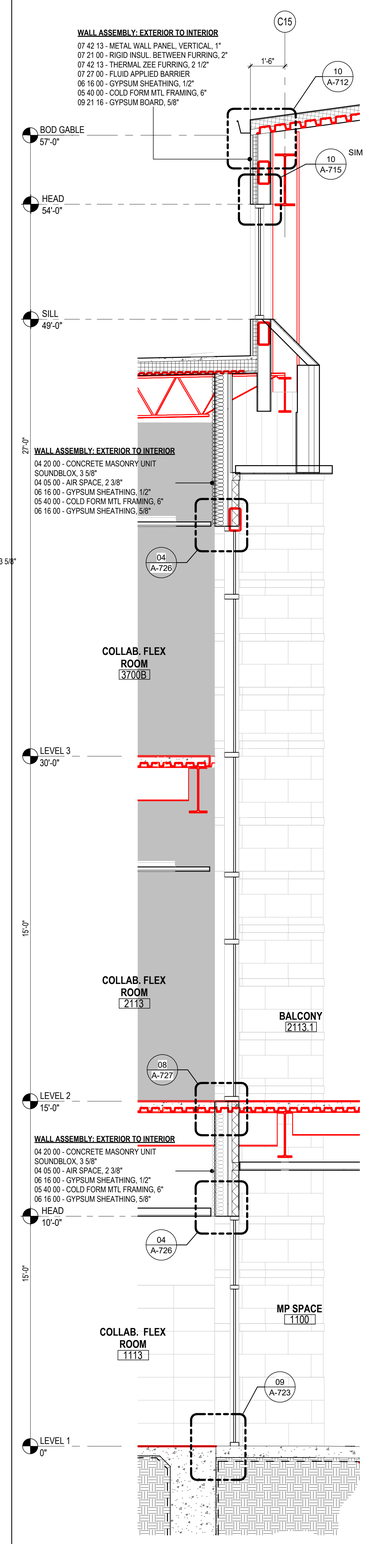
06 WALL SECTION @ MPF WEST WALL - 2
3/8" = 1'-0"



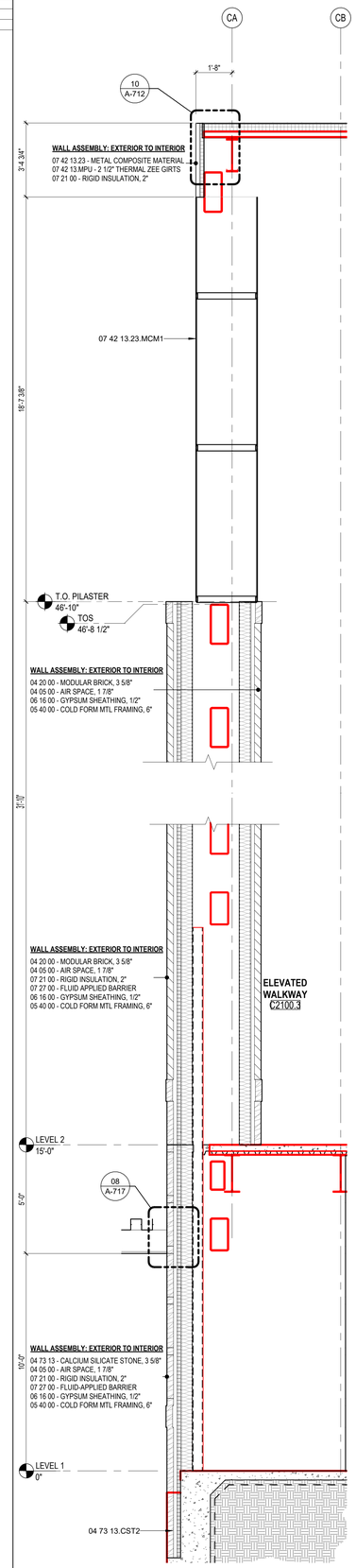
05 WALL SECTION @ MPF WEST WALL
3/8" = 1'-0"



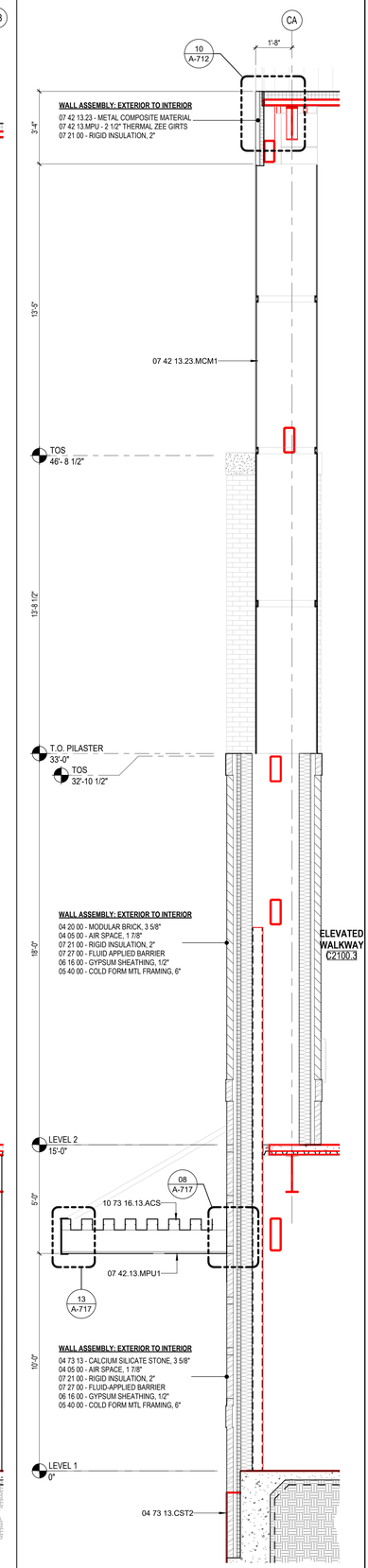
04 WALL SECTION @ MPF / CLASSROOMS
3/8" = 1'-0"



03 WALL SECTION @ MPF BALCONY
3/8" = 1'-0"



02 WALL SECTION @ PILASTER 02
3/8" = 1'-0"



01 WALL SECTION @ PILASTER -01
3/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
IAN EPICOSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

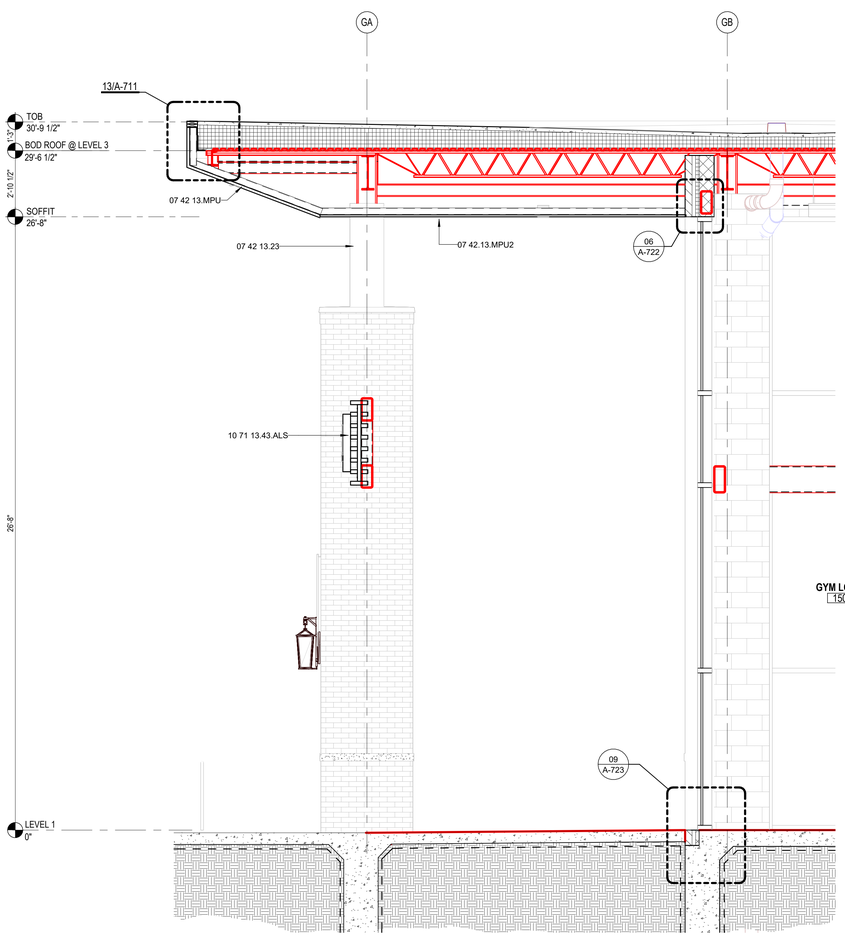
DRAWN BY: Author

WALL SECTIONS

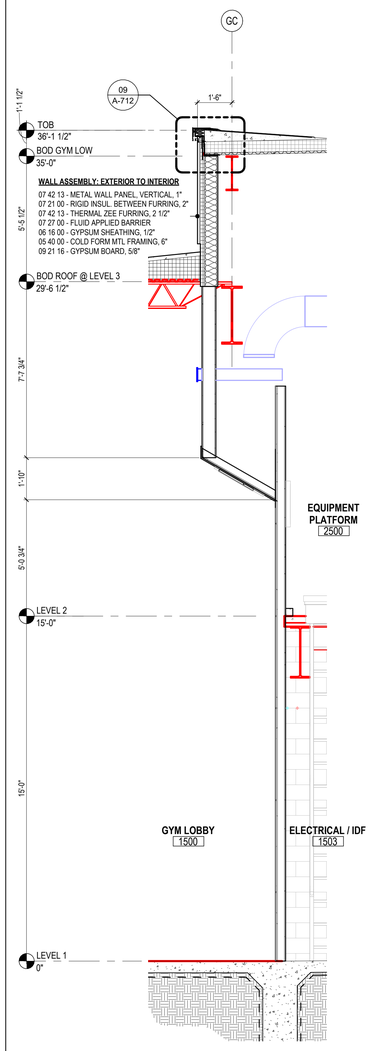
A-623

WALL SECTIONS
A-624
FOR BLUEBEAM LABELING/OCR:

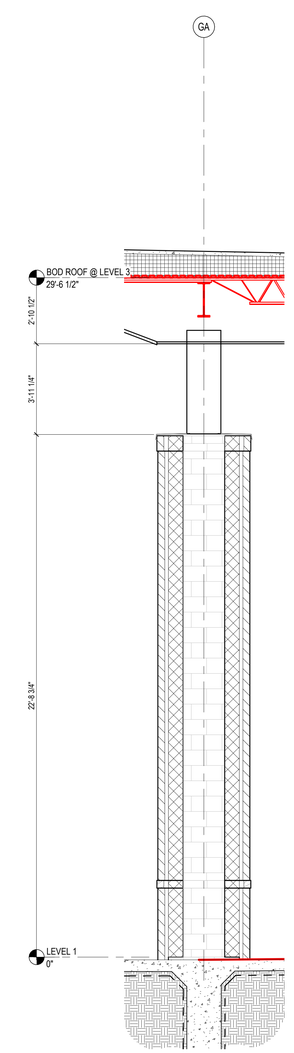
0"
1"



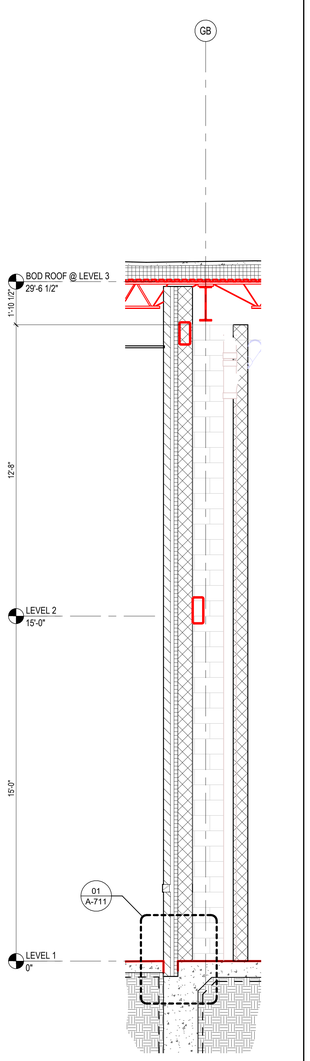
04 WALL SECTION AREA A @ GYM ENTRANCE CANOPY
3/8" = 1'-0"



03 WALL SECTION AREA A @ GYM ENTRANCE
3/8" = 1'-0"



02 WALL SECTION @ GYM PORTICO
3/8" = 1'-0"



01 WALL SECTION @ GYM LOBBY PILASTER
3/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 42 13.23	METAL COMPOSITE MATERIAL WALL PANELS (Architectural - PBK Architects)
07 42 13.MPU	UNINSULATED METAL WALL PANEL, REFER TO ELEVATIONS
07 42.13.MPU2	UNINSULATED METAL WALL PANEL, TYPE 2 - CONCEALED FASTENER
10 71 13.43.ALS	ALUMINUM SUN SCREEN SYSTEM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: AE

WALL SECTIONS

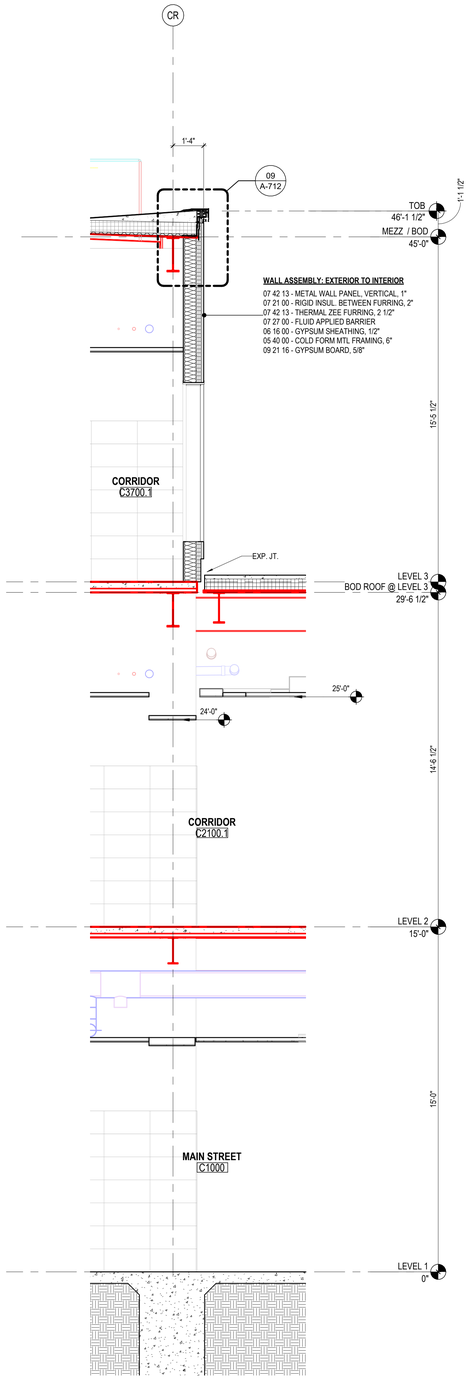
A-624

Plot Stamp:
12/5/2025 3:09:15 PM

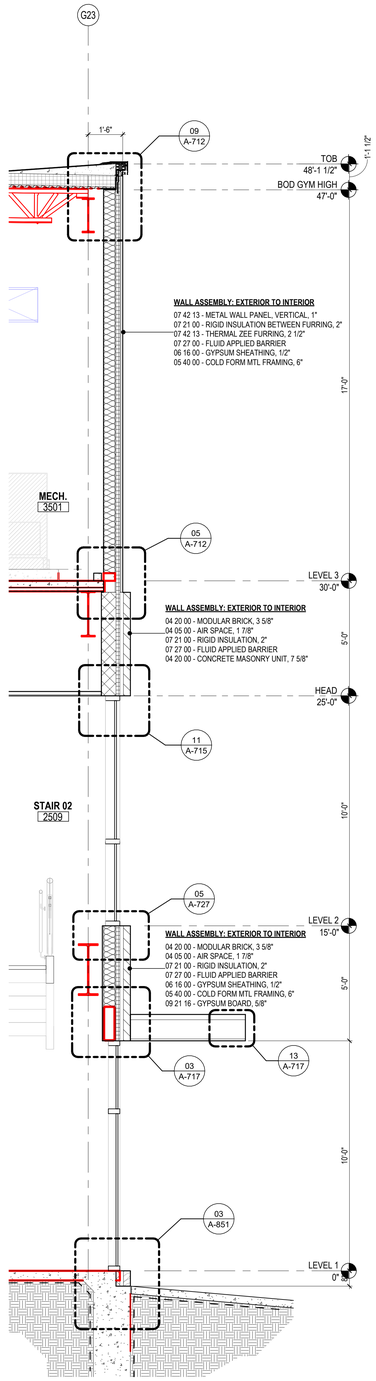
WALL SECTIONS
A-625
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

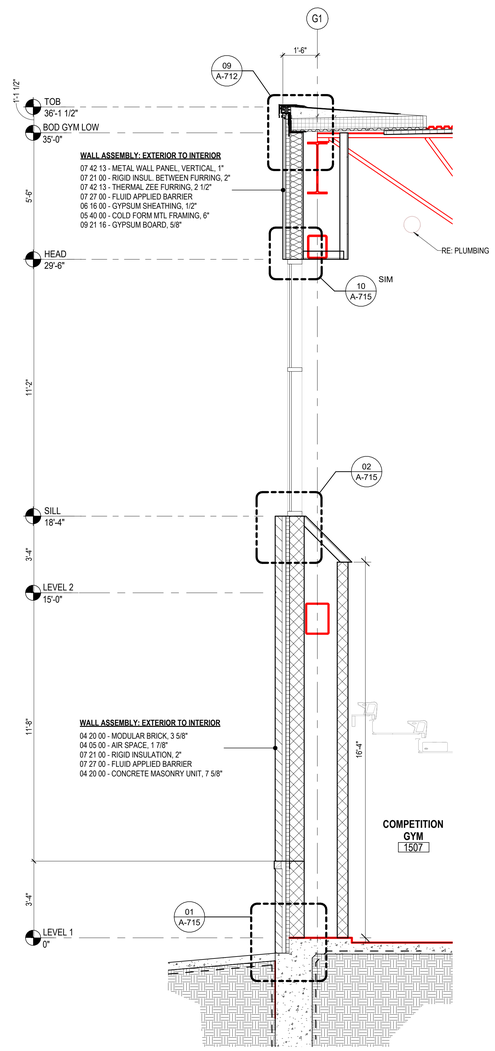
NUMBER	DESCRIPTION
09 84 00.ARC6	ACOUSTIC ROOM COMPONENT TYPE 3 - WALL ACOUSTIC PANELS
12 66 13.TSE	TELESCOPING BLEACHER, ELECTRICALLY-OPERATED



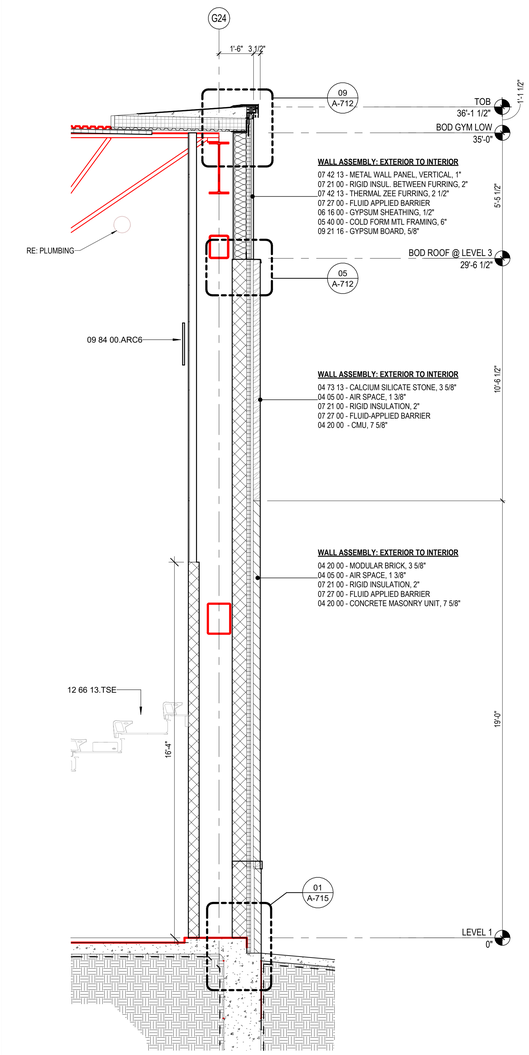
04 WALL SECTION @ MAIN STREET
3/8" = 1'-0"



03 WALL SECTION @ AREA B OPEN STAIRS
3/8" = 1'-0"



02 WALL SECTION AREA A @ GYM WEST WALL
3/8" = 1'-0"



01 WALL SECTION AREA A @ GYM EAST WALL
3/8" = 1'-0"

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12/5/2025 3:09:23 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

WALL SECTIONS

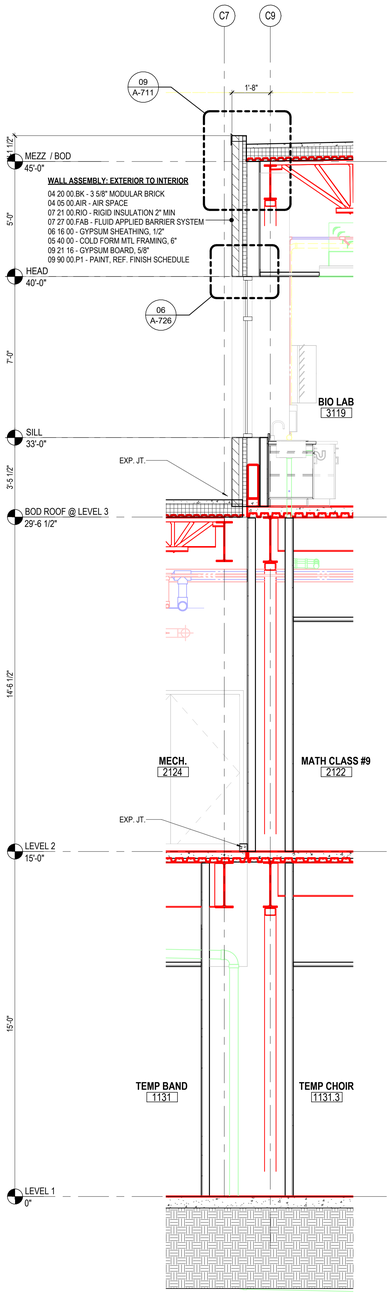
A-625

WALL SECTIONS
A-626
FOR BLUEBEAM LABELING/DOOR:

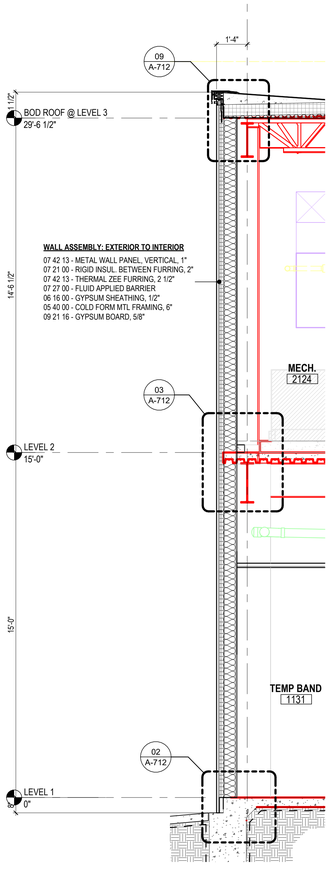
0"
1"

KEYNOTE LEGEND

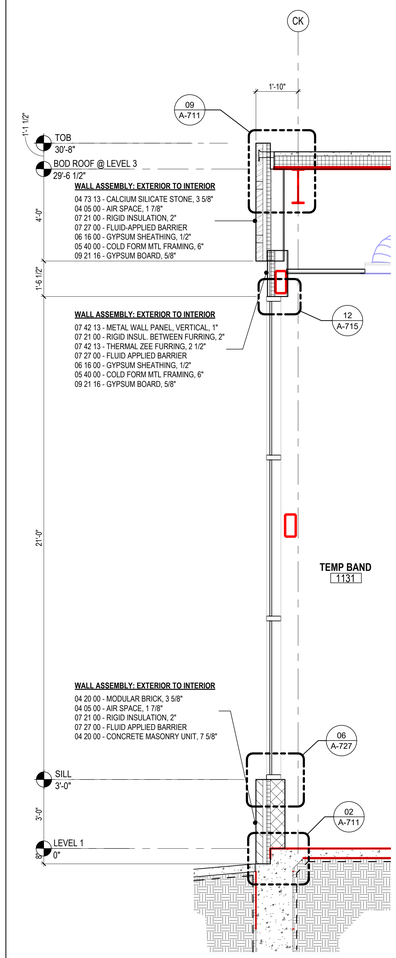
NUMBER	DESCRIPTION



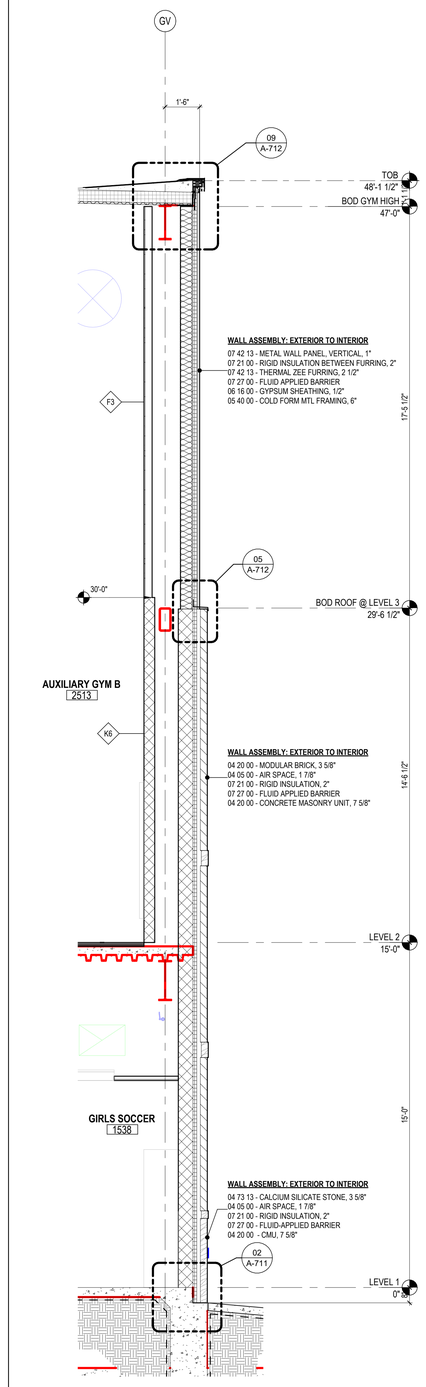
05 WALL SECTION @ LIBRARY AND ACADEMIC
3/8" = 1'-0"



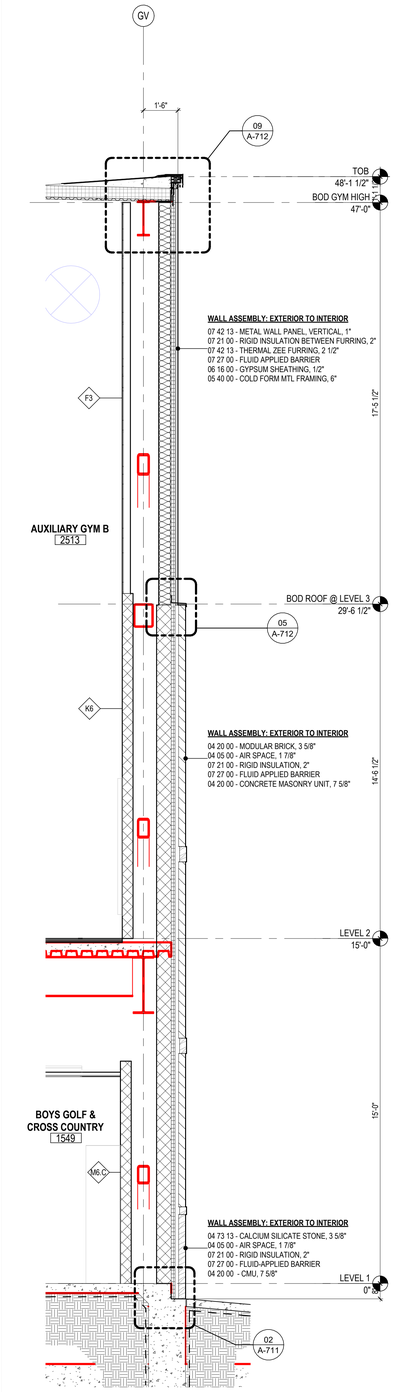
04 WALL SECTION @ LIBRARY - NORTH
3/8" = 1'-0"



03 WALL SECTION AT LIBRARY - EAST
3/8" = 1'-0"



02 WALL SECTION @ AREA B SOUTH WALL
3/8" = 1'-0"



01 WALL SECTION @ AREA B STAIRS
3/8" = 1'-0"

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12/5/2025 3:09:29 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN

NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

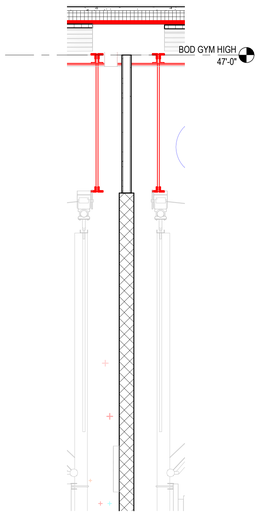
CHECKED BY: Checker
DRAWN BY: Author

WALL SECTIONS

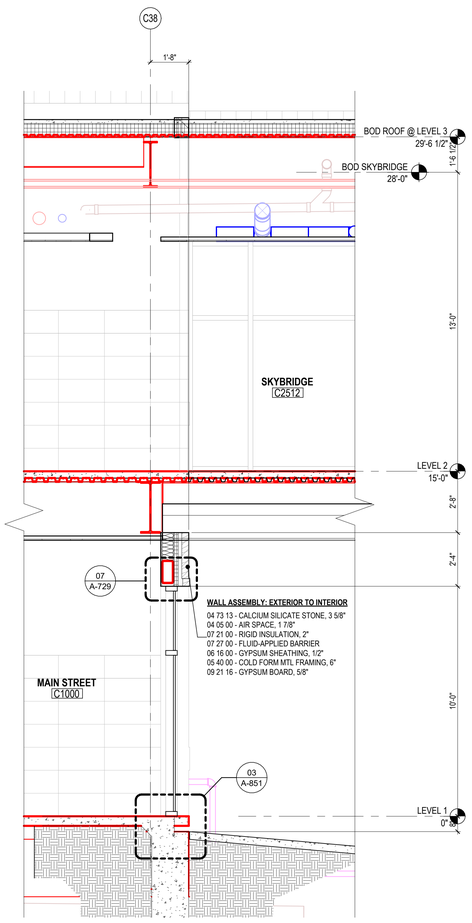
A-626

WALL SECTIONS
A-627
FOR BLUEBEAM LABELING/DOOR:

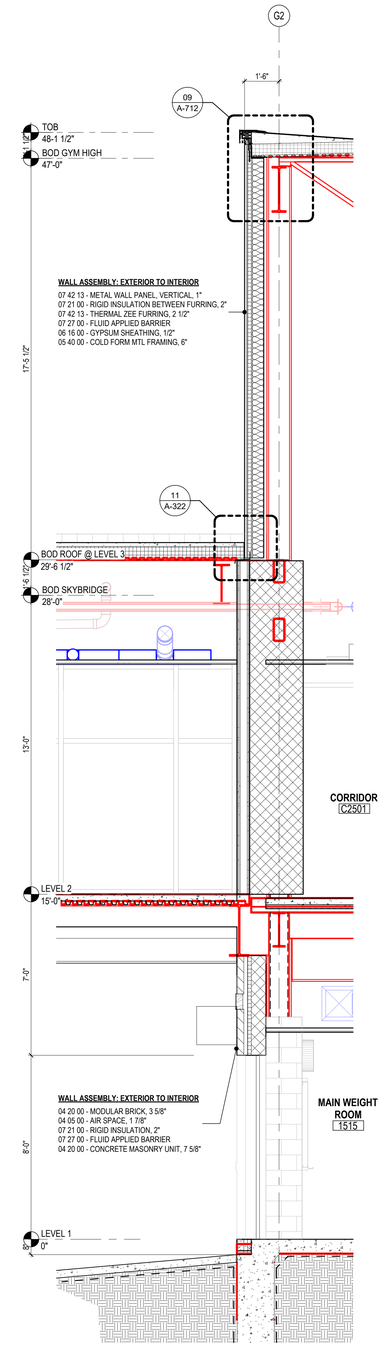
0"
1"



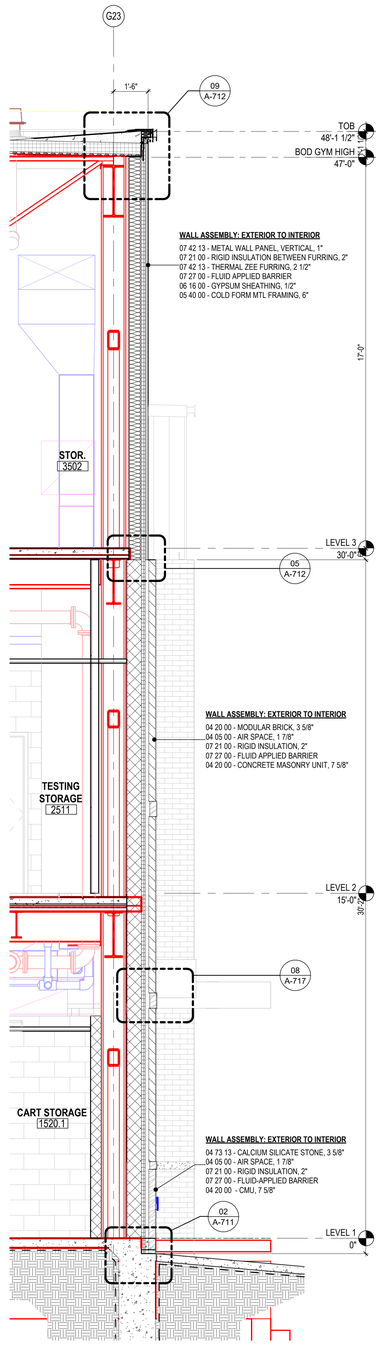
05 WALL SECTION @ AUXILLARY GYM CMU GYP TRANSTION
3/8" = 1'-0"



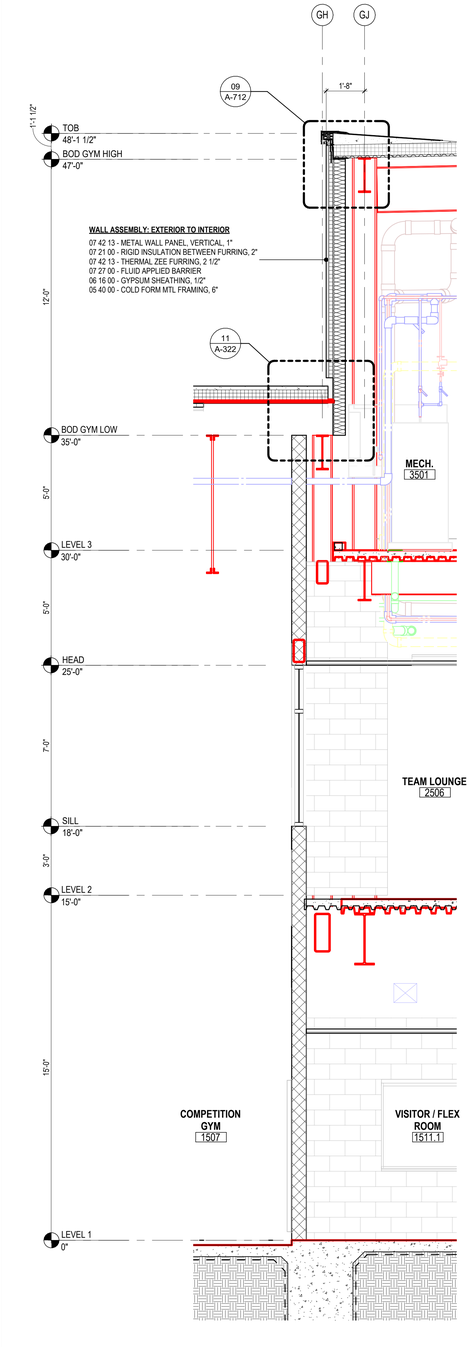
04 WALL SECTION @ AREA D SKYBRIDGE
3/8" = 1'-0"



03 WALL SECTION AREA B @ SKYBRIDGE
3/8" = 1'-0"



02 WALL SECTION @ AREA B - SOUTH WALL
3/8" = 1'-0"



01 WALL SECTION @ GYM HI-LOW TRANSTION
3/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
WILLIAM LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

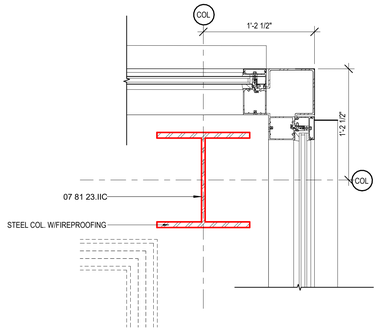
WALL SECTIONS

A-627

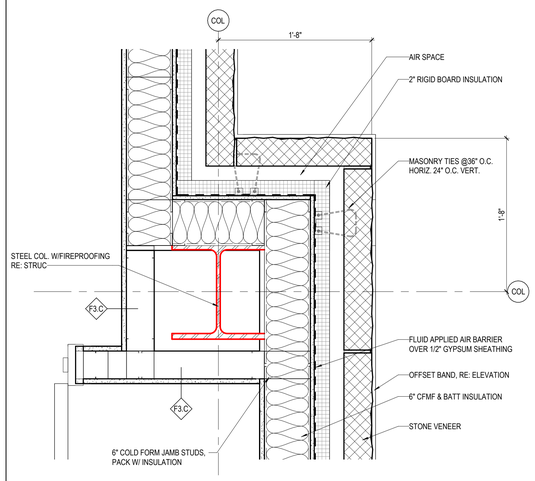
Plot Stamp:
12/5/2025 3:09:38 PM

PLAN DETAILS
A-701
FOR BLUEBEAM LABELING/DOOR:

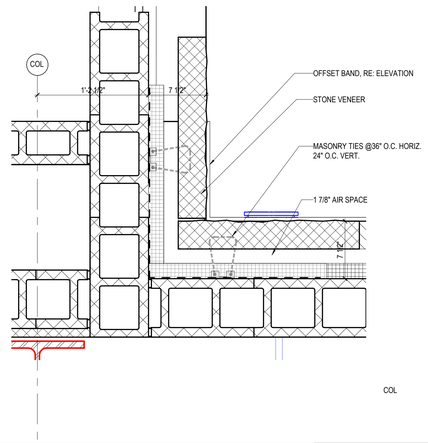
0"
1"



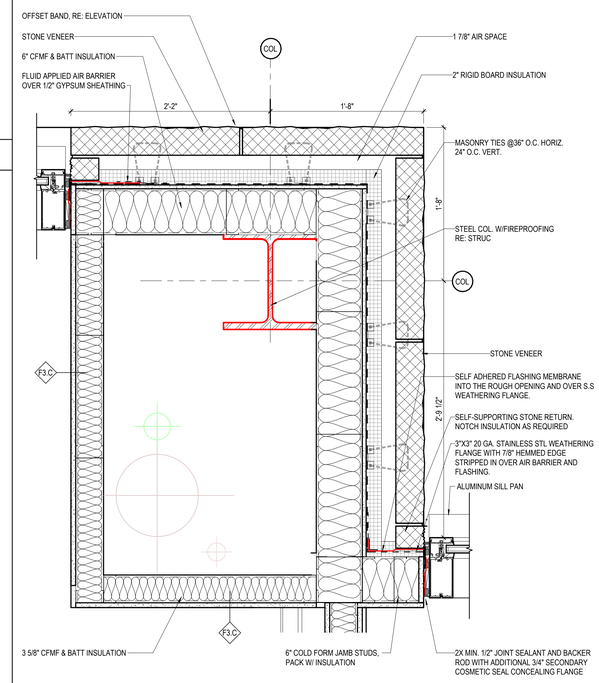
11 LEVEL 1 - AREA C - COLUMN @ STAIR
1 1/2" = 1'-0"



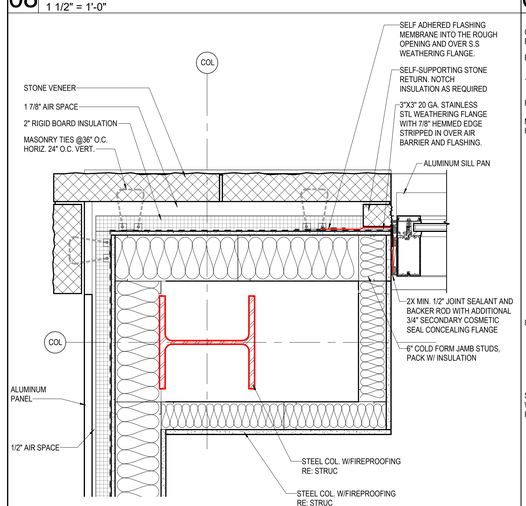
10 LEVEL 1 - AREA C - COLUMN @ STORAGE ROOM
1 1/2" = 1'-0"



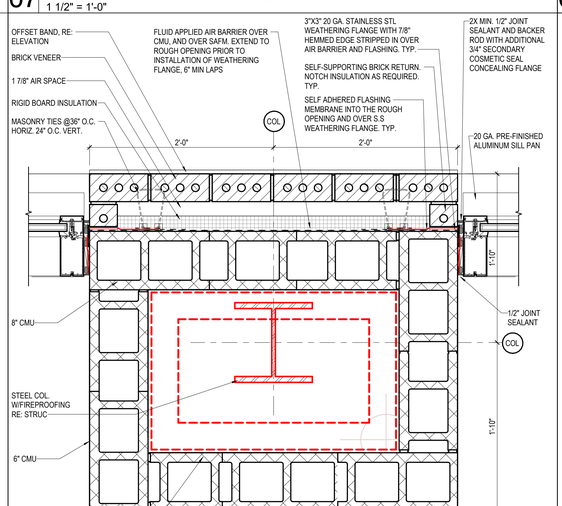
09 LEVEL 1 - AREA A - RESTROOM @ PLUMBING CHASE 02
1 1/2" = 1'-0"



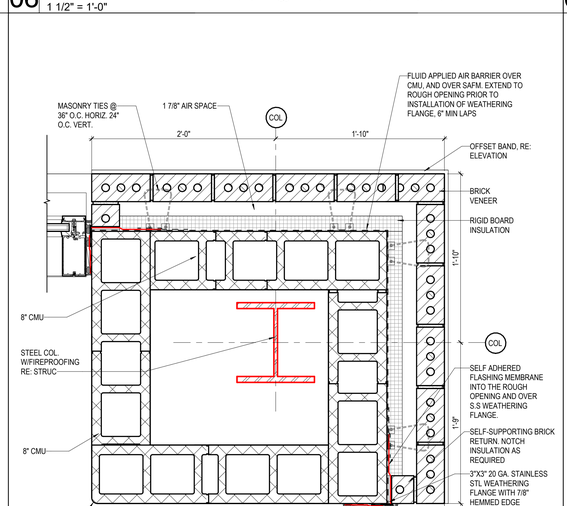
05 LEVEL 1 -EXTERIOR CORNER @ PLUMBING CHASE
1 1/2" = 1'-0"



08 LEVEL 1 - AREA B FLOOR PLAN - COLUMN @ STAIR 02
1 1/2" = 1'-0"



07 LEVEL 3 - AREA B - COLUMN @ STAIR
1 1/2" = 1'-0"

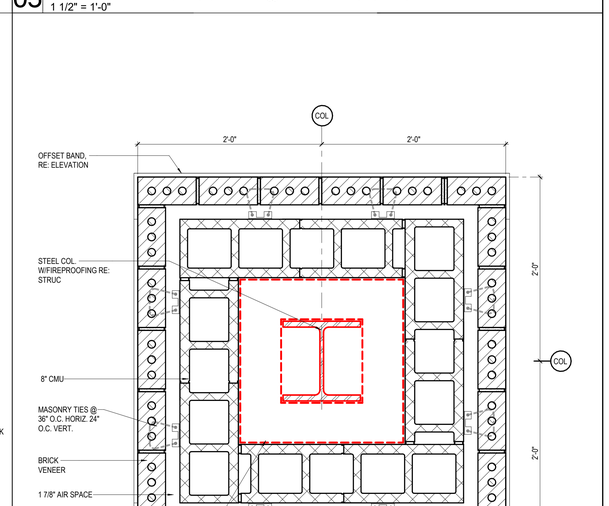


06 LEVEL 1 - AREA A - RESTROOM @ PLUMBING CHASE 01
1 1/2" = 1'-0"

04 LEVEL 1 - AREA F FLOOR PLAN - COLUMN WRAP @ LIBRARY
1 1/2" = 1'-0"

03 LEVEL 1 - AREA A - CMU COLUMN WRAP
1 1/2" = 1'-0"

02 LEVEL 1 - AREA A - OUTSIDE CORNER
1 1/2" = 1'-0"



01 LEVEL 1 - AREA A - EXTERIOR COLUMN
1 1/2" = 1'-0"

Plot Stamp:
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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
IAN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

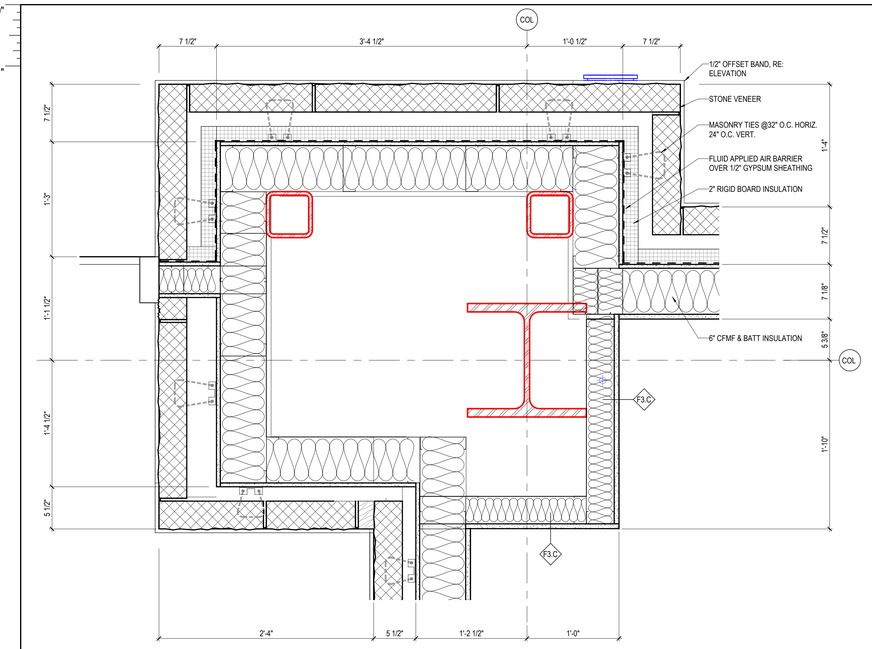
No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

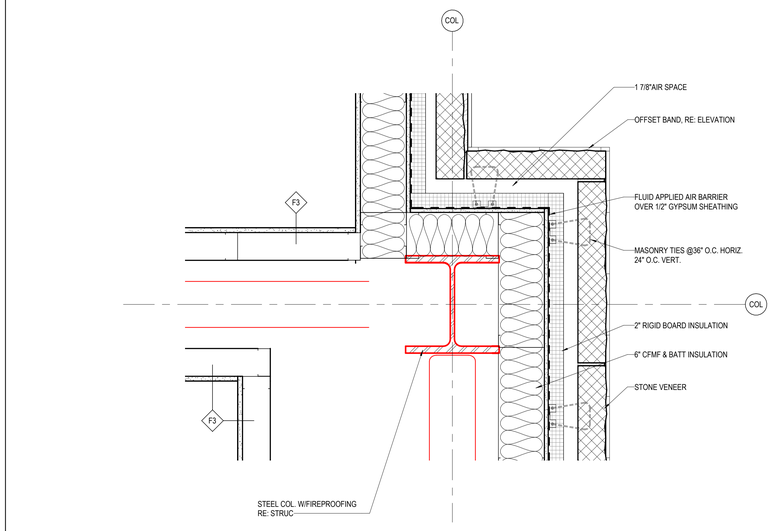
PLAN DETAILS

A-701

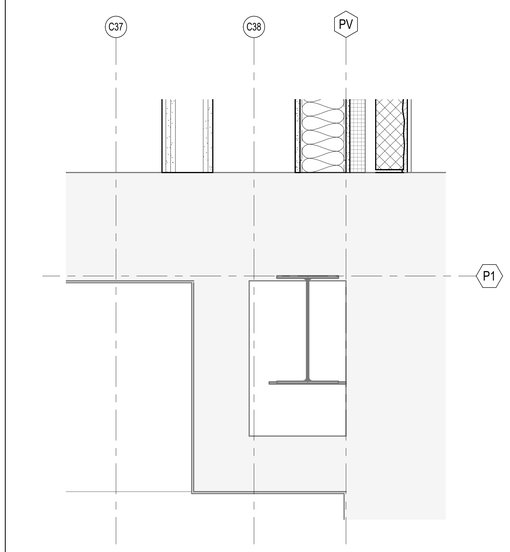
PLAN DETAILS
A-702
FOR BLUEBEAM LABELING/DOOR:



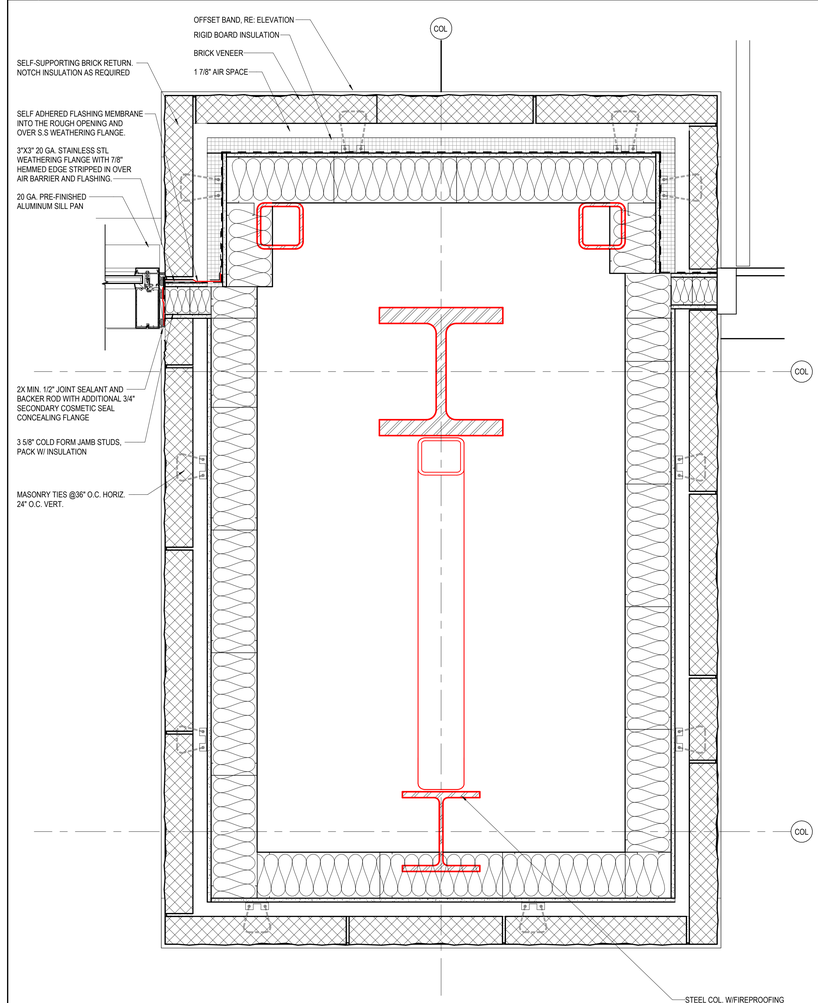
05 LEVEL 1 - EXTERIOR PILASTER DETAIL
1 1/2" = 1'-0"



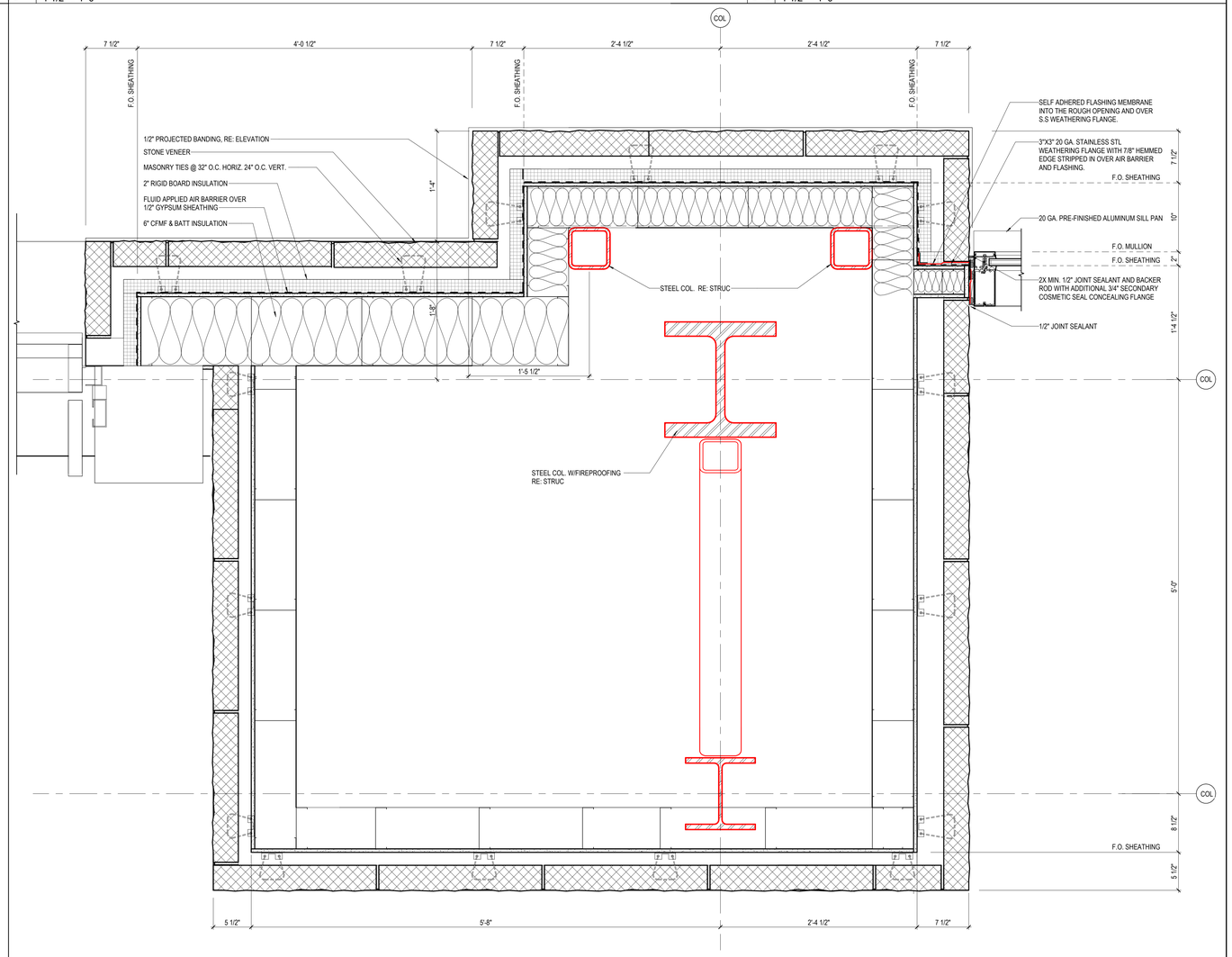
04 LEVEL 1 - AREA C - EXTERIOR BUMP OUT @ CLASSROOM
1 1/2" = 1'-0"



03 LEVEL 1 - AREA D - EXISTING COLUMN
1 1/2" = 1'-0"



02 LEVEL 1 - AREA G - COLUMN @ CW
1 1/2" = 1'-0"



01 LEVEL 1 - AREA G - COLUMN @ OVERHEAD DOOR
1 1/2" = 1'-0"

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

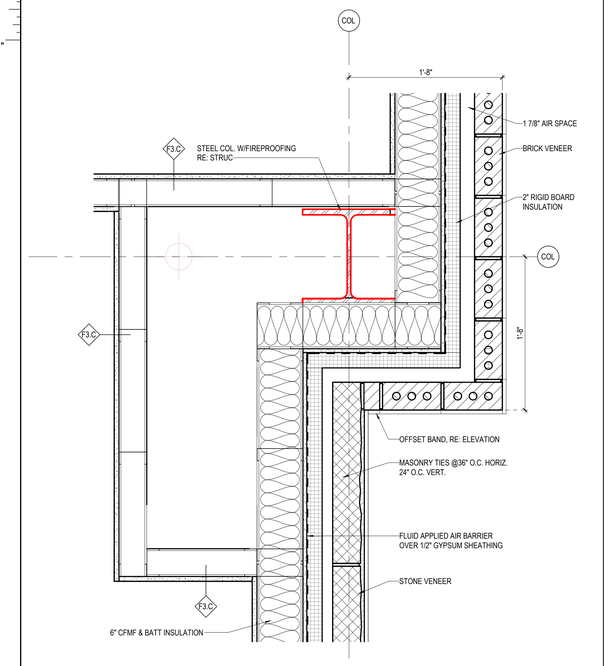
CHECKED BY: Checker
DRAWN BY: Author

PLAN DETAILS

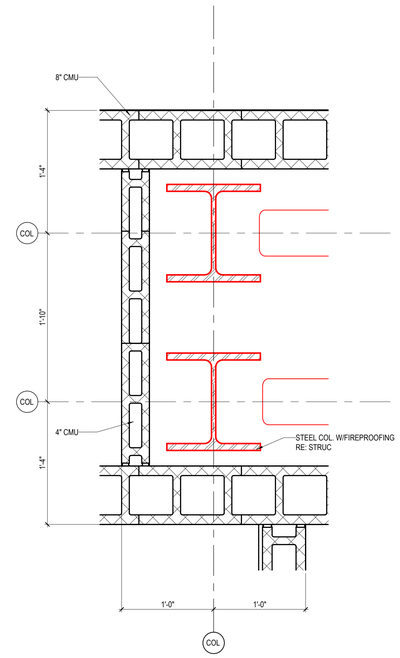
A-702

PLAN DETAILS
A-703
FOR BLUEBEAM LABELING/OCR:

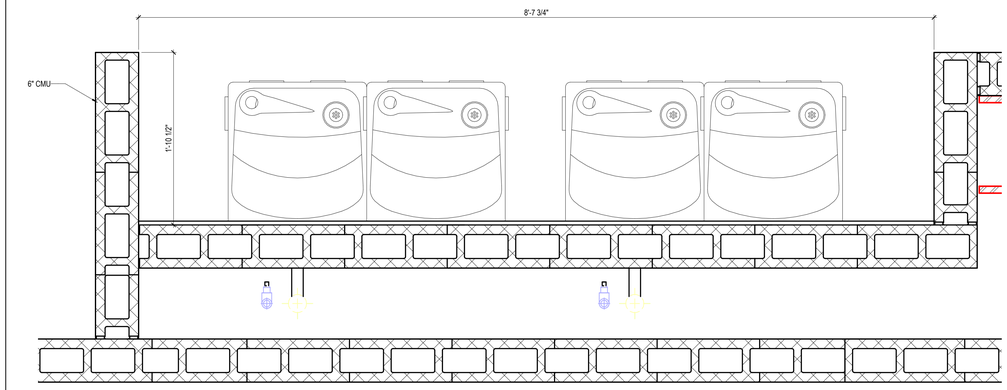
0"
1"



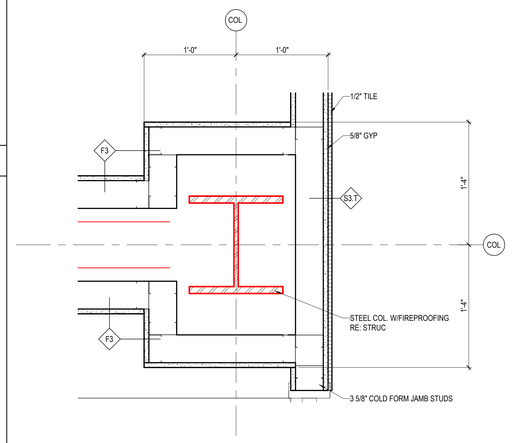
08 LEVEL 1 - AREA D - EXTERIOR BUMPOUT @ PLUMBING CHASE
1 1/2" = 1'-0"

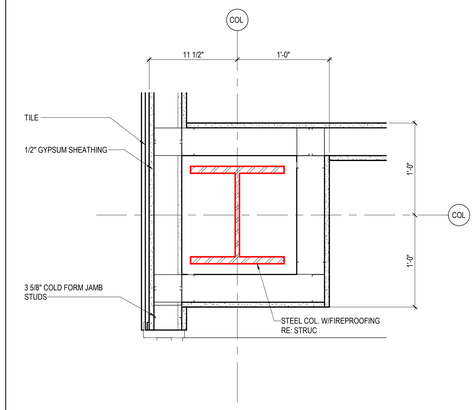


07 LEVEL 2 - AREA B - COLUMN
1 1/2" = 1'-0"



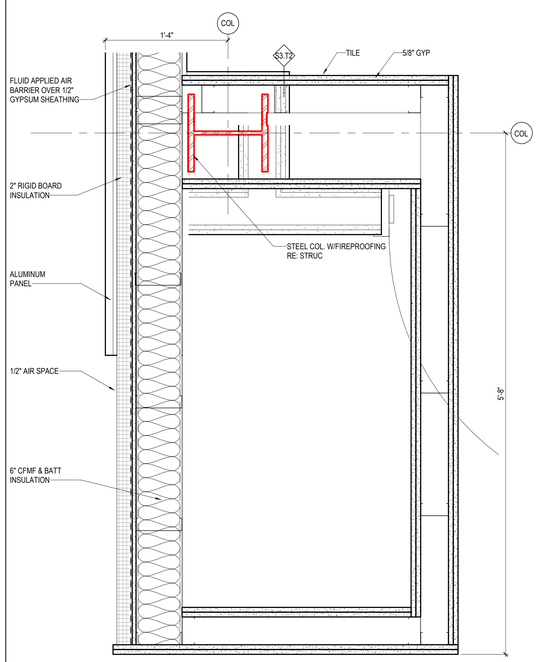
09 TYP DRINKING FOUNTAIN
1 1/2" = 1'-0"

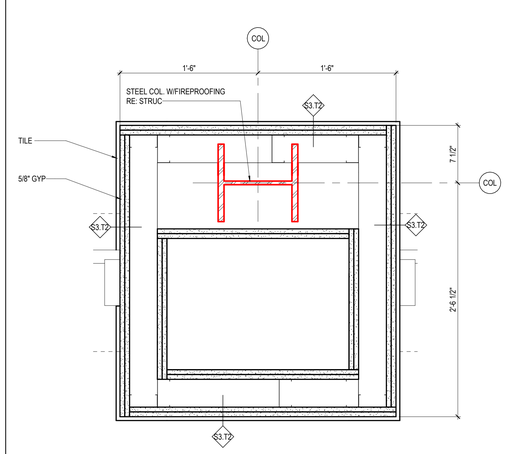




06 COLUMN AND BEAM WRAP
1 1/2" = 1'-0"

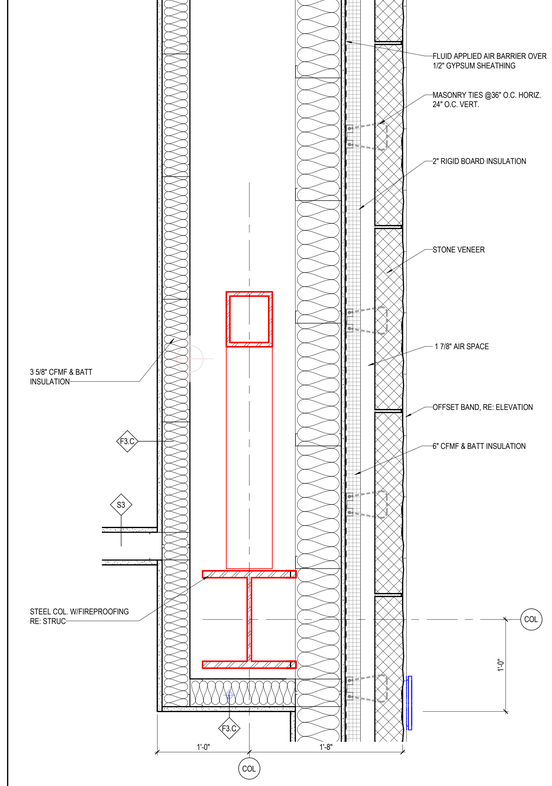
05 TYP. COLUMN WRAP
1 1/2" = 1'-0"



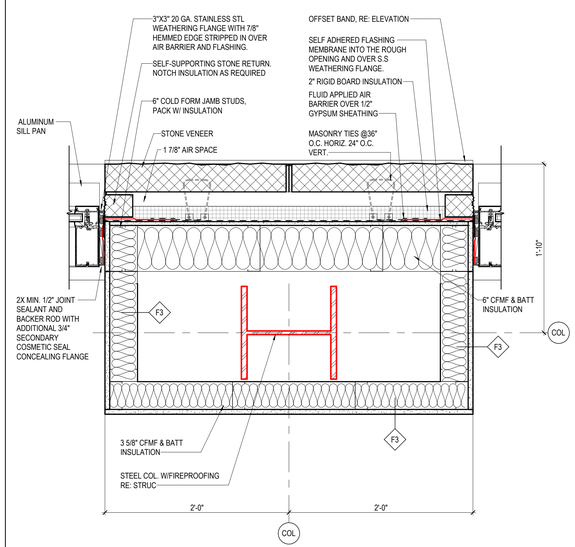


02 LEVEL 1 - AREA F - COLUMN WRAP @ EXT WALL
1 1/2" = 1'-0"

01 LEVEL 1 - AREA F - COLUMN WRAP @ OVERHEAD DOORS
1 1/2" = 1'-0"



04 LEVEL 1 - AREA C - STRUCTURAL BEAM WRAP
1 1/2" = 1'-0"



03 LEVEL 1 - AREA F - COLUMN WRAP @ CW
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

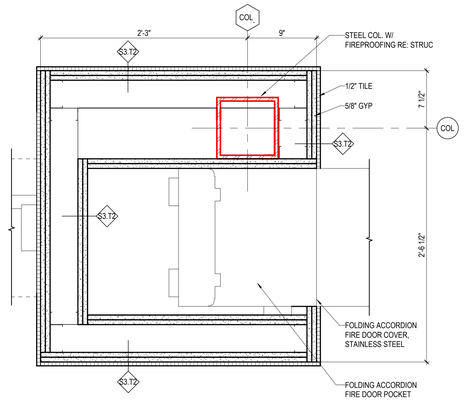
CHECKED BY: Checker
DRAWN BY: Author

PLAN DETAILS

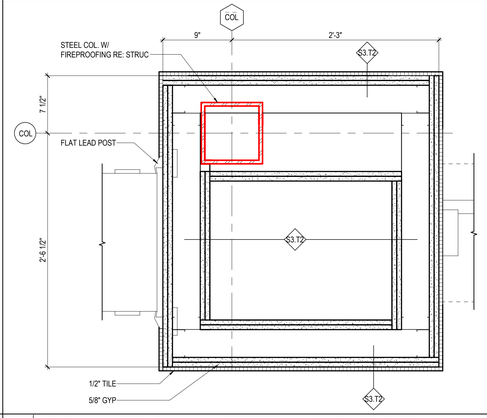
A-703

PLAN DETAILS
A-704
FOR BLUEBEAM LABELING/DOOR:

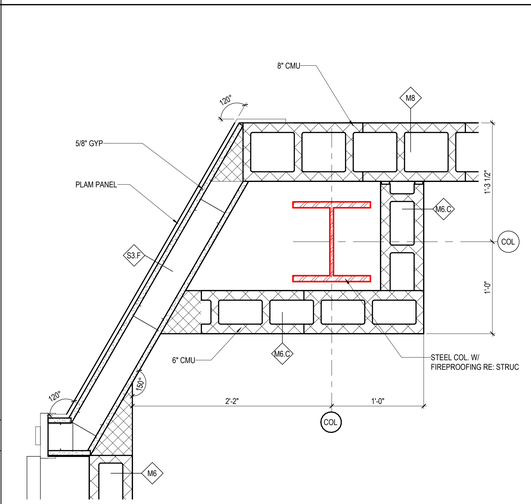
0"
1"



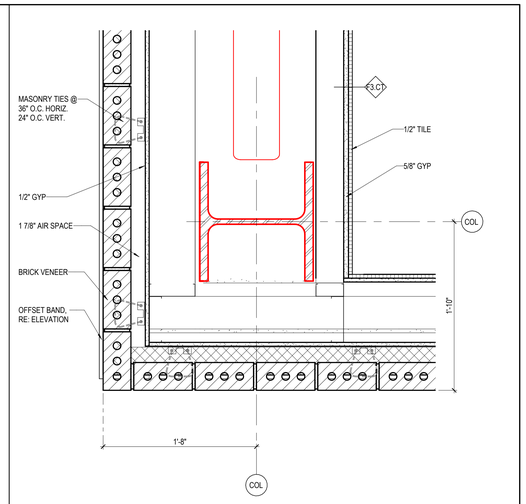
14 LEVEL 1 - AREA D - MAIN STREET - WON DOOR DETAIL 02
1 1/2" = 1'-0"



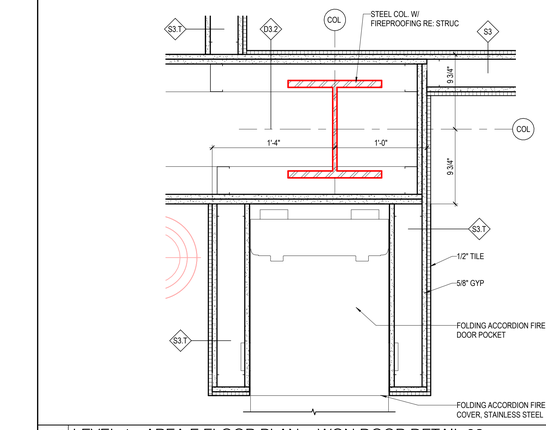
13 LEVEL 1 - AREA D - MAIN STREET - WON DOOR DETAIL 01
1 1/2" = 1'-0"



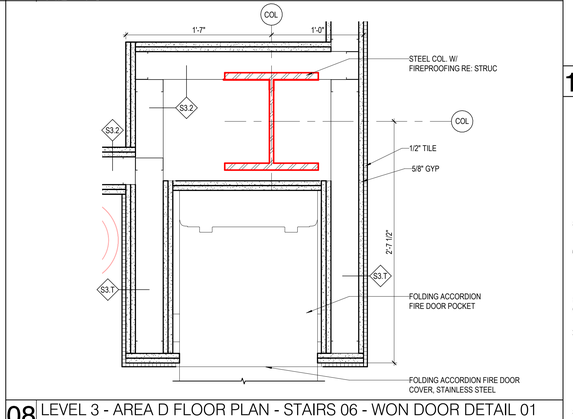
12 LEVEL 1 - AREA A - COLUMN WRAP @ CONCESSIONS
1 1/2" = 1'-0"



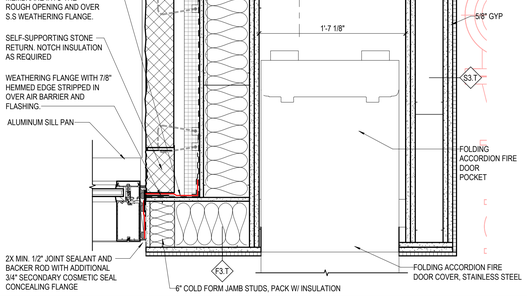
11 ENLARGED RESTROOMS 01 - Callout 1
1 1/2" = 1'-0"



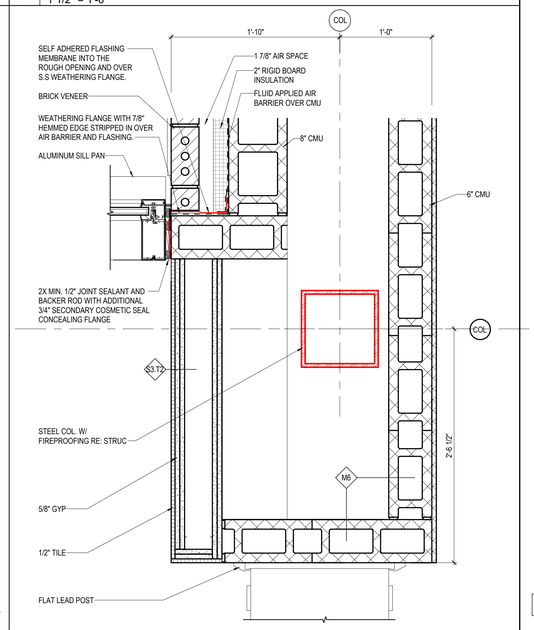
10 LEVEL 1 - AREA F FLOOR PLAN - WON DOOR DETAIL 02
1 1/2" = 1'-0"



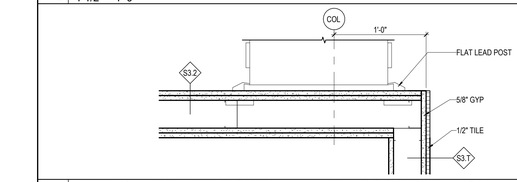
08 LEVEL 3 - AREA D FLOOR PLAN - STAIRS 06 - WON DOOR DETAIL 01
1 1/2" = 1'-0"



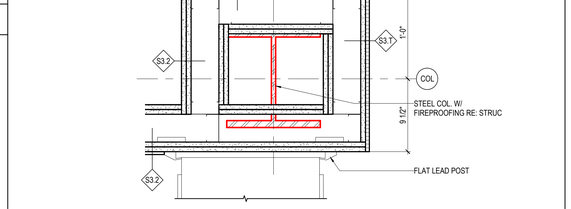
06 LEVEL 1 - EXTERIOR CORNER @ ACCORDION FIRE DOOR 02
1 1/2" = 1'-0"



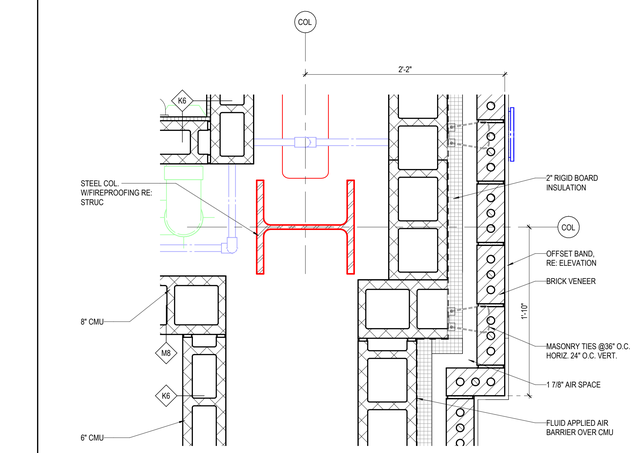
05 LEVEL 2 - AREA B - WON DOOR DETAIL 01
1 1/2" = 1'-0"



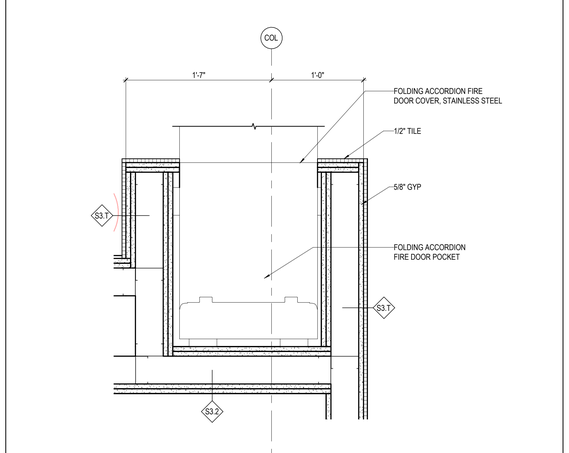
09 LEVEL 1 - AREA F FLOOR PLAN - WON DOOR DETAIL 01
1 1/2" = 1'-0"



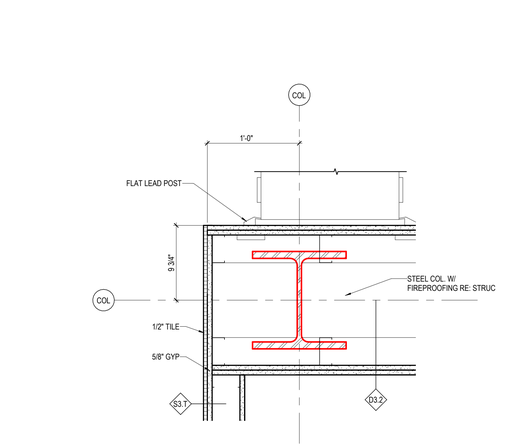
07 LEVEL 1 - AREA D FLOOR PLAN - STAIRS 06 - WON DOOR DETAIL 02
1 1/2" = 1'-0"



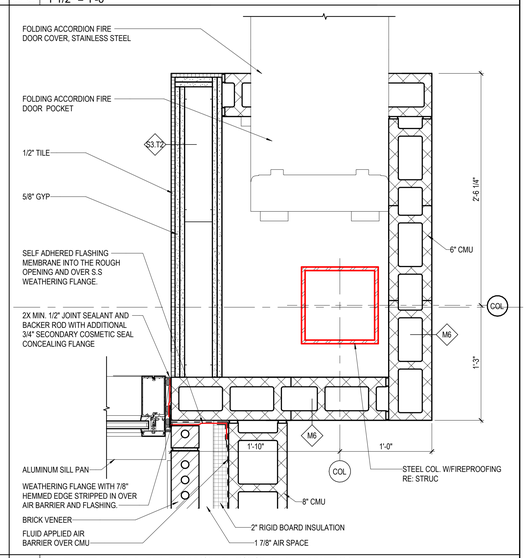
04 ENLARGED MEN'S RESTROOM - Callout 1
1 1/2" = 1'-0"



03 LEVEL 1 - AREA D FLOOR PLAN - STAIRS 06 - WON DOOR DETAIL 01
1 1/2" = 1'-0"



02 LEVEL 1 - EXTERIOR CORNER @ ACCORDION FIRE DOOR 01
1 1/2" = 1'-0"



01 LEVEL 2 - AREA B - WON DOOR DETAIL 02
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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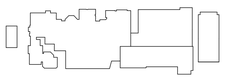
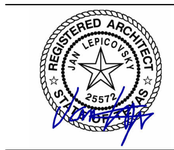
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
CT		

CHECKED BY: Checker
DRAWN BY: Author

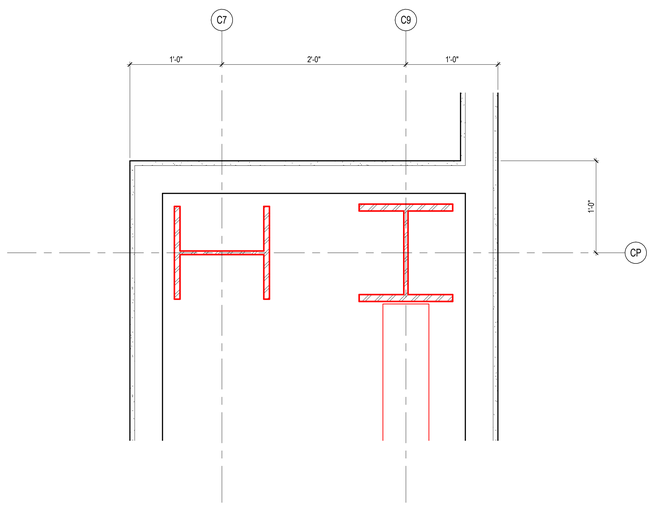
PLAN DETAILS

A-704

Plot Stamp:
12/5/2025 3:10:05 PM

PLAN DETAILS
A-705
FOR BLUEBEAM LABELING/DOOR:

0"
1"



02 LEVEL 1 - AREA F - EJ DETAIL 02
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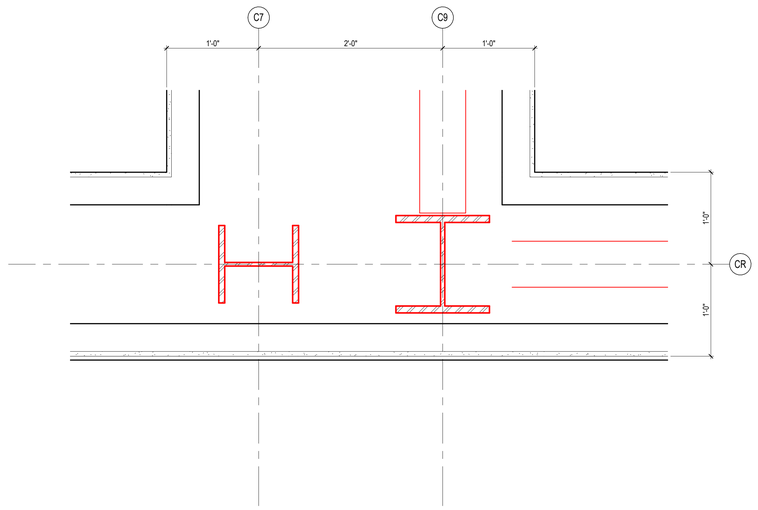

01 LEVEL 1 - AREA F - EJ DETAIL 01
1 1/2" = 1'-0"

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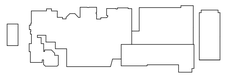
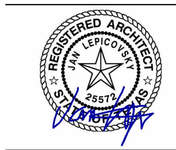


KEY PLAN
NORTH: PLAN = TRUE



CLIENT	
Galena Park ISD	
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December 5, 2025	240539

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No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

PLAN DETAILS

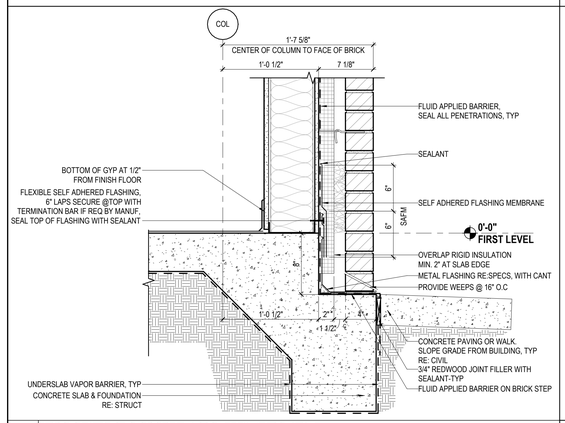
A-705

Plot Stamp:
12/5/2025 3:10:07 PM

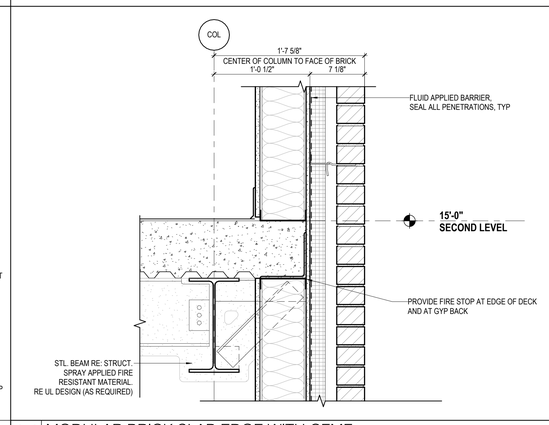
0"

1"

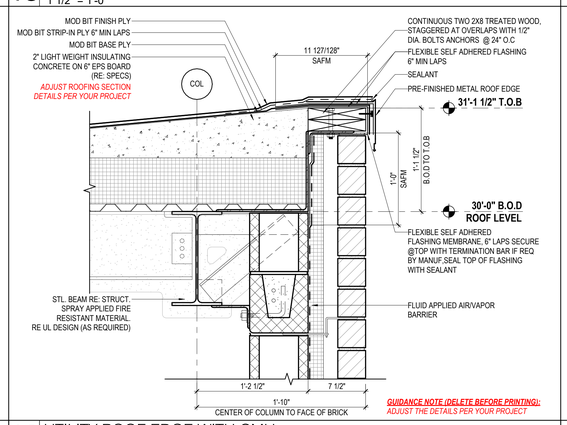
MASONRY WALL SECTION DETAILS
A-711
FOR BLUEBEAM LABELING/OCR:



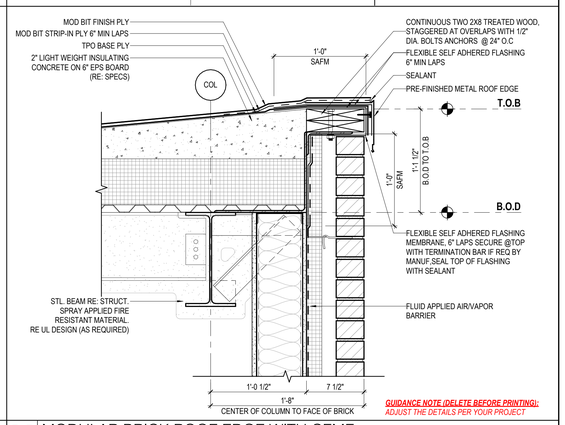
12 MODULAR BRICK LEDGE WITH CFMF
1 1/2" = 1'-0"



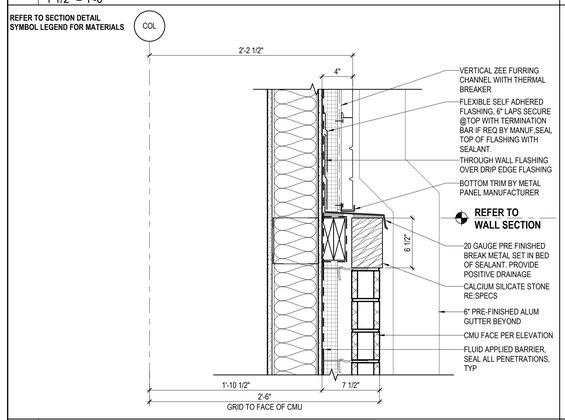
11 MODULAR BRICK SLAB EDGE WITH CFMF
1 1/2" = 1'-0"



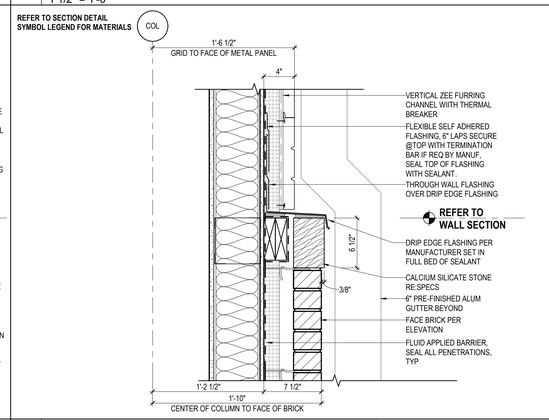
10 UTILITY ROOF EDGE WITH CMU
1 1/2" = 1'-0"



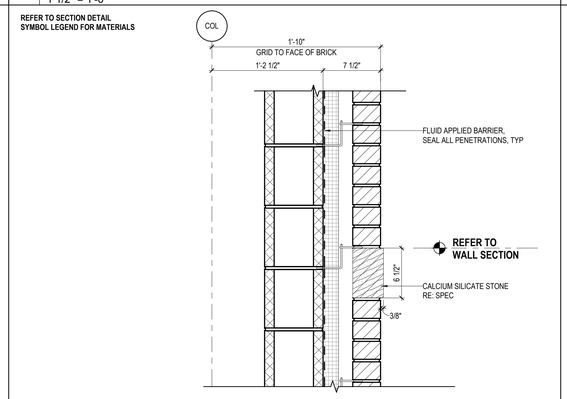
09 MODULAR BRICK ROOF EDGE WITH CFMF
1 1/2" = 1'-0"



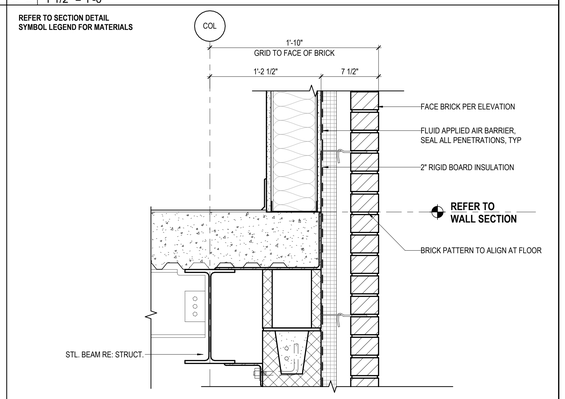
08 CMU TRANSITION TO METAL PANEL
1 1/2" = 1'-0"



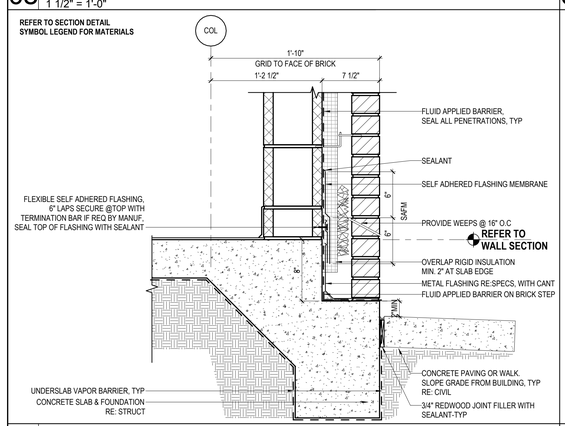
07 BRICK TRANSITION TO METAL PANEL
1 1/2" = 1'-0"



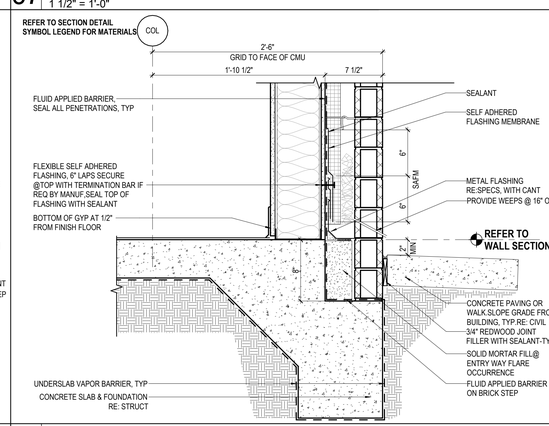
06 BRICK WALL WITH STONE @CMU
1 1/2" = 1'-0"



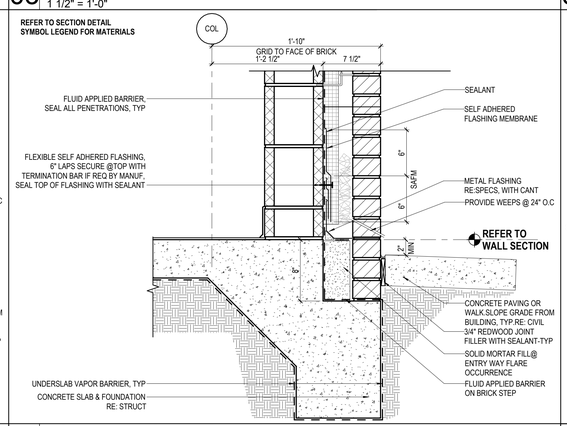
05 SLAB EDGE WITH CFMF AND BRICK
1 1/2" = 1'-0"



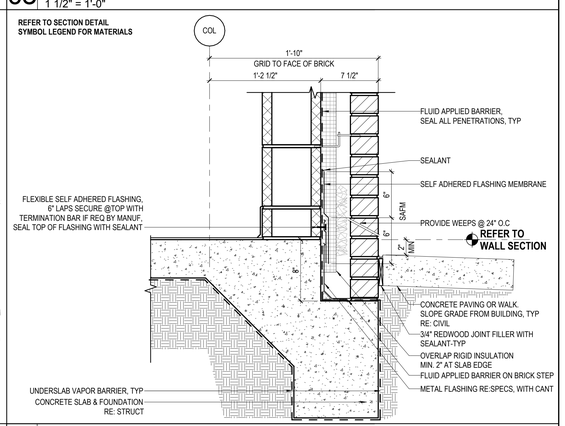
04 MODULAR BRICK LEDGE WITH CMU BELOW GRADE
1 1/2" = 1'-0"



03 CMU BRICK LEDGE AT GRADE CFMF
1 1/2" = 1'-0"

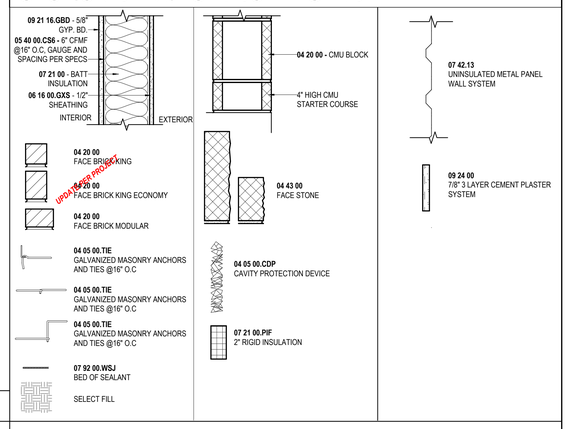


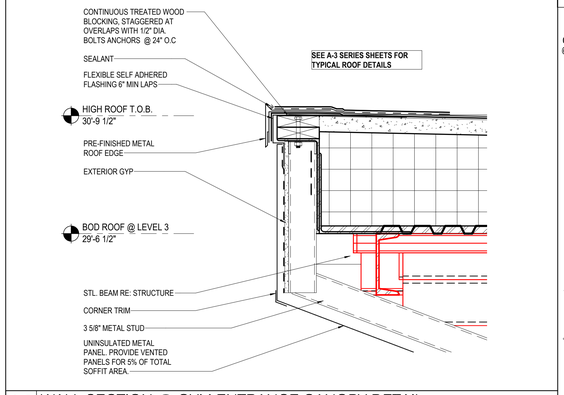
02 MODULAR BRICK LEDGE AT GRADE CMU
1 1/2" = 1'-0"



01 MODULAR BRICK LEDGE WITH CMU
1 1/2" = 1'-0"

SECTION DETAIL SYMBOL LEGEND





13 WALL SECTION @ GYM ENTRANCE CANOPY DETAIL
1 1/2" = 1'-0"

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REGISTERED ARCHITECT
JOHN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: AE

MASONRY WALL SECTION DETAILS

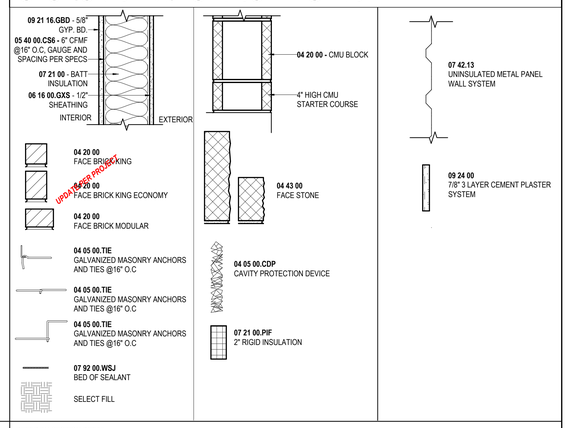
A-711

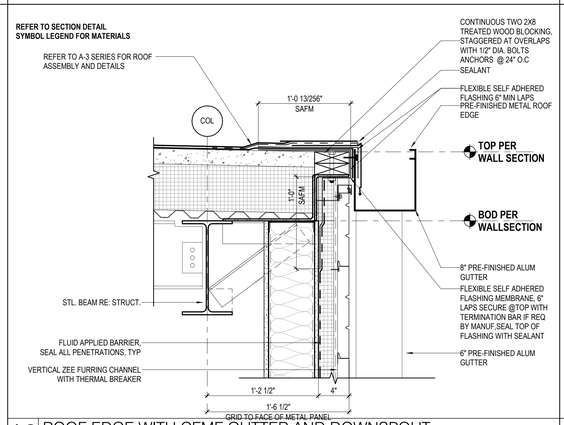
Plot Stamp:
12/5/2025 3:10:09 PM

0"
1"

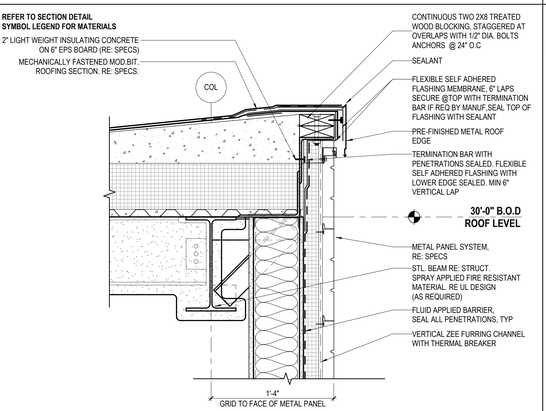
METAL PANEL WALL SECTION DETAILS
A-712
FOR BLUEBEAM LABELING/OCR:

SECTION DETAIL SYMBOL LEGEND

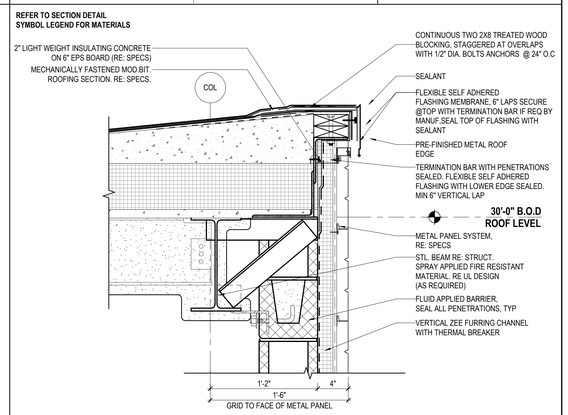




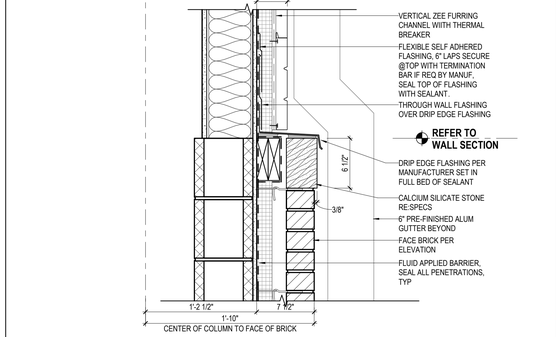
10 ROOF EDGE WITH CFMF GUTTER AND DOWNSPOUT
1 1/2" = 1'-0"



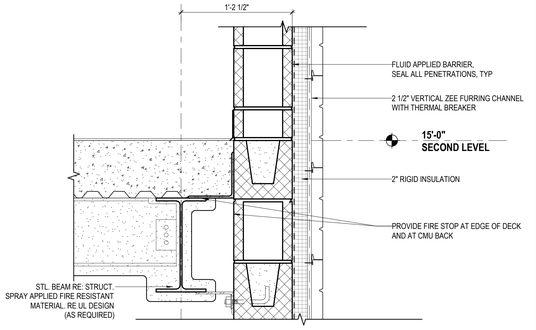
09 ROOF EDGE WITH CFMF GUTTER AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"



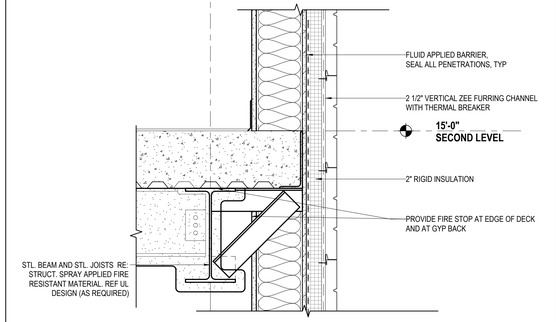
08 ROOF EDGE WITH CMU GUTTER AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"



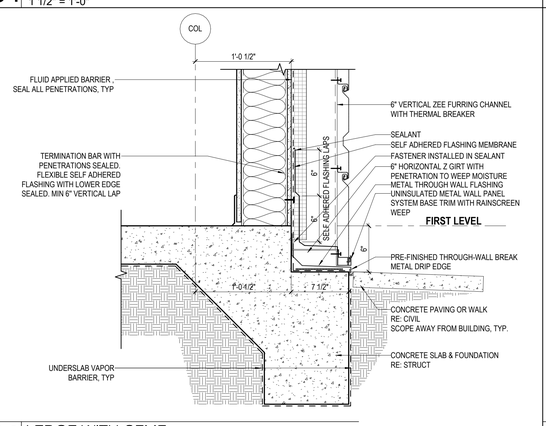
05 BRICK TRANSITION TO METAL PANEL ON CMU
1 1/2" = 1'-0"



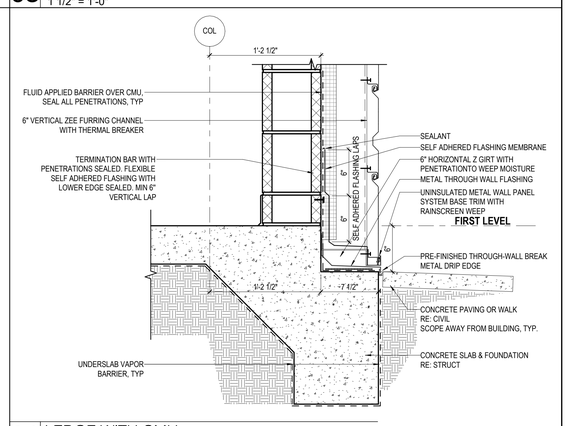
04 SLAB EDGE CMU
1 1/2" = 1'-0"



03 SLAB EDGE CFMF
1 1/2" = 1'-0"



02 LEDGE WITH CFMF
1 1/2" = 1'-0"



01 LEDGE WITH CMU
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

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NORTH: PLAN TRUE

LICENSED REGISTERED ARCHITECT
JAN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

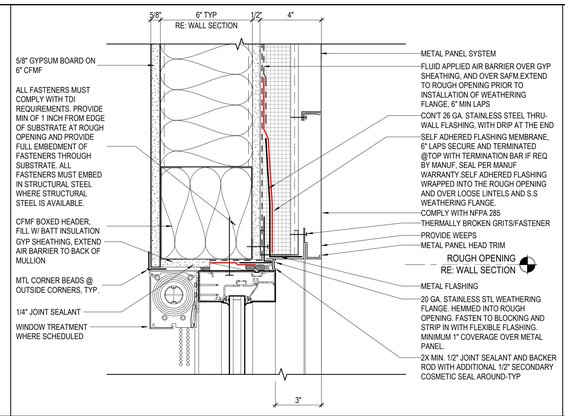
CHECKED BY: Checker
DRAWN BY: Author

METAL PANEL WALL SECTION DETAILS

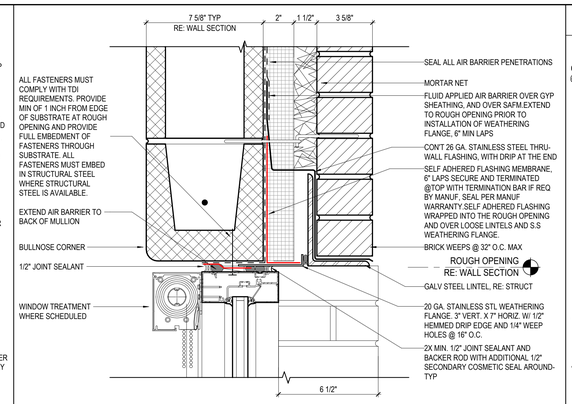
A-712

STOREFRONT SECTION DETAILS
A-715
FOR BLUEBEAM LABELINGDOCR:

0"
1"

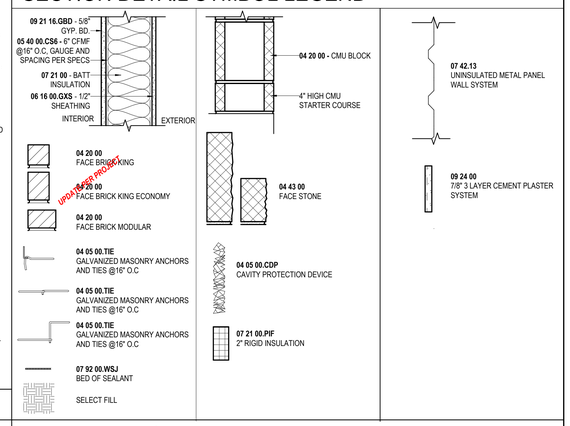


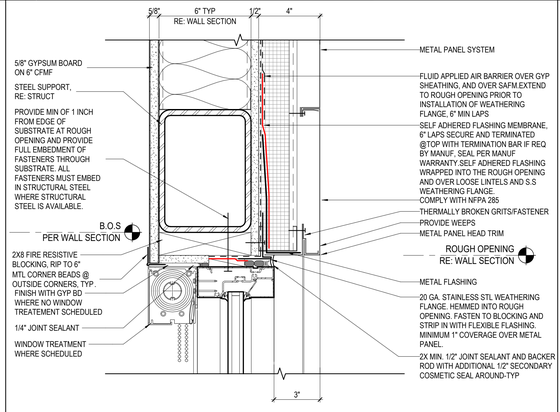
12 SF HEAD @ METAL PANEL CFMF
3" = 1'-0"



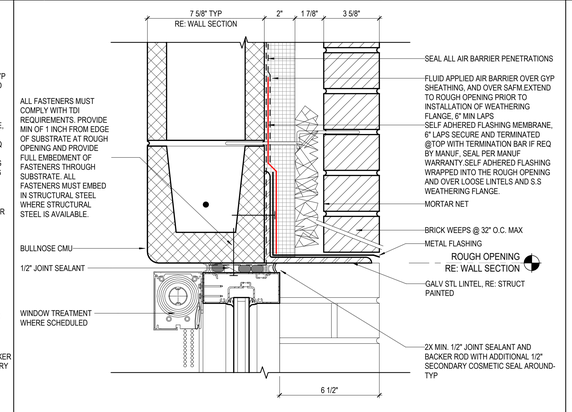
11 SF HEAD @ BRICK CMU LOOSE LINTEL
3" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

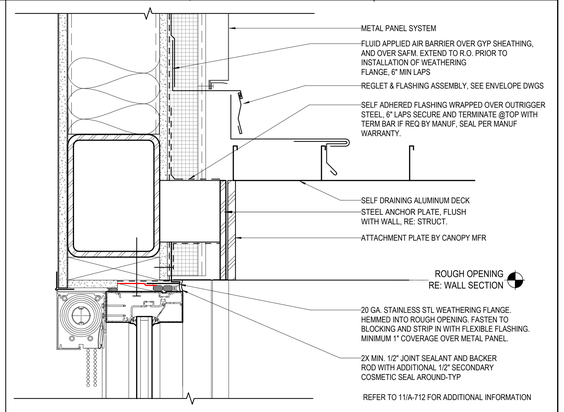




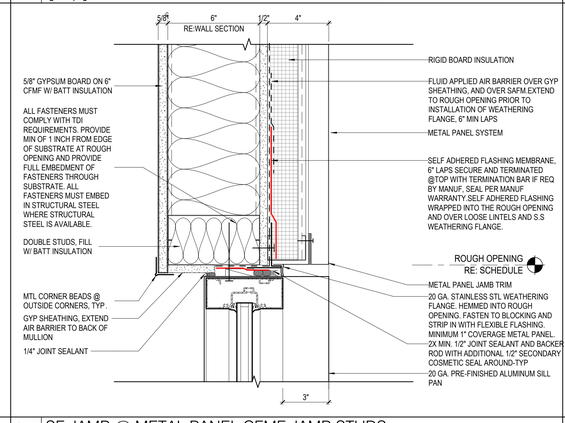
10 SF HEAD @ METAL PANEL CFMF STRUCTURE
3" = 1'-0"



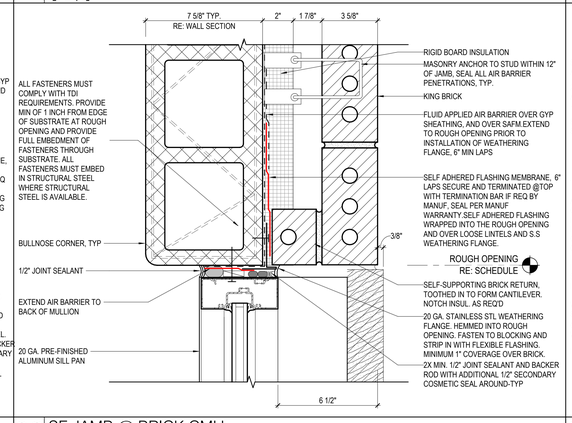
09 SF HEAD @ BRICK CMU STRUCT LINTEL
3" = 1'-0"



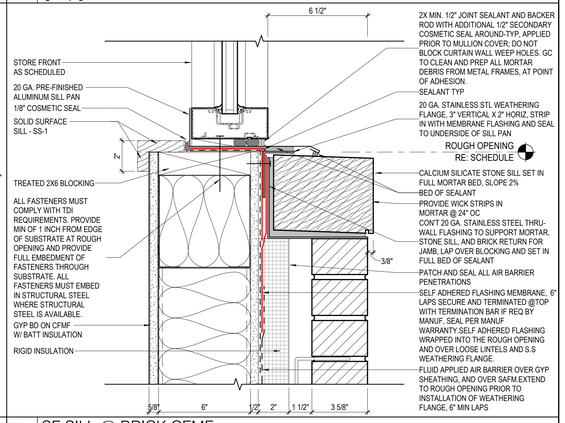
08 SF HEAD @ CANOPY W/ MTL PANEL
3" = 1'-0"



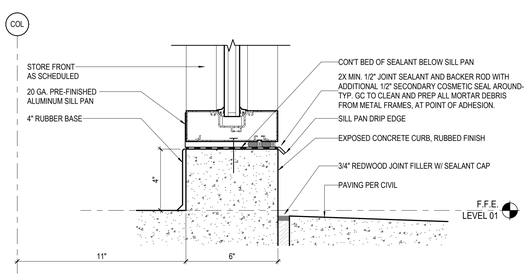
07 SF JAMB @ METAL PANEL CFMF JAMB STUDS
3" = 1'-0"



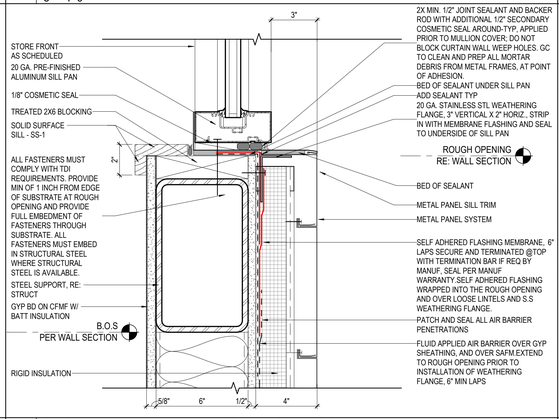
06 SF JAMB @ BRICK CMU
3" = 1'-0"



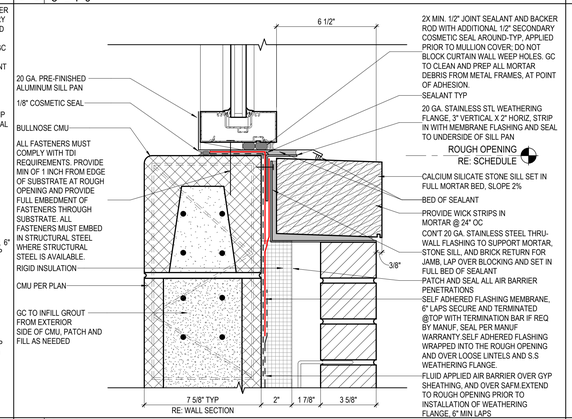
05 SF SILL @ BRICK CFMF
3" = 1'-0"



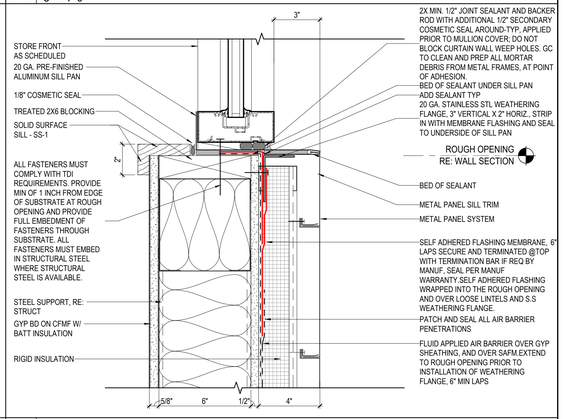
04 SF SILL @ CONCRETE CURB
3" = 1'-0"



03 SF SILL @ METAL PANEL CFMF STL POST
3" = 1'-0"



02 SF SILL @BRICK CMU
3" = 1'-0"



01 SF SILL @ METAL PANEL CFMF
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:13 PM

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Galena Park ISD

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REGISTERED ARCHITECT
JOHN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

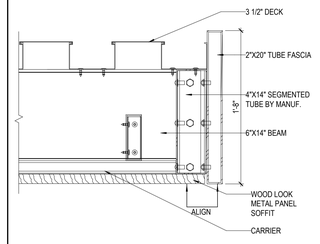
CHECKED BY: Checker
DRAWN BY: Author

STOREFRONT SECTION DETAILS

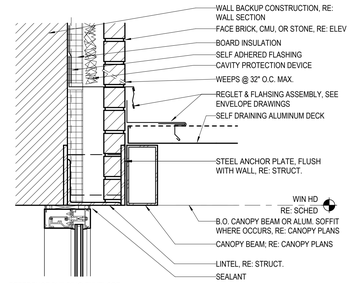
A-715

CANOPY DETAILS
A-717
FOR BLUEBEAM LABELING/DOOR:

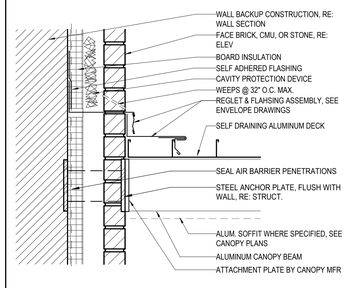
0"
1"



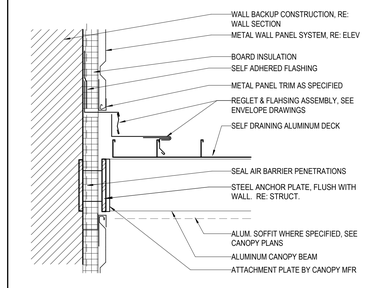
13 CANOPY EDGE DETAIL
1 1/2" = 1'-0"



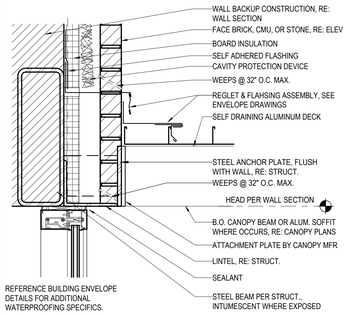
09 CANOPY @ HD W/ WALL BEAM
1 1/2" = 1'-0"



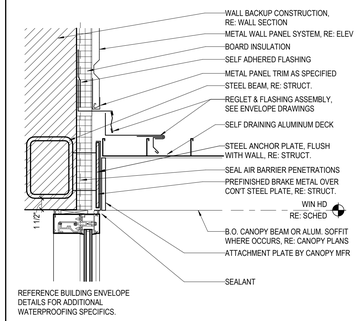
08 CANOPY @ MASONRY VENEER
1 1/2" = 1'-0"



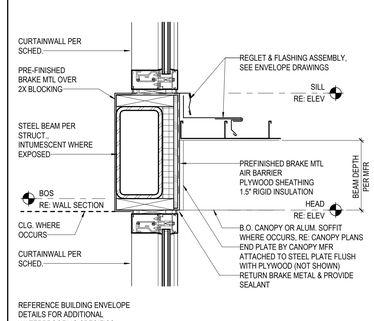
07 CANOPY @ METAL PANEL
1 1/2" = 1'-0"



03 CANOPY @ WIN. HEAD W/ MASONRY
1 1/2" = 1'-0"



02 CANOPY @ WIN. HEAD W/ MTL PANEL
1 1/2" = 1'-0"



01 CANOPY @ CURTAINWALL
1 1/2" = 1'-0"

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JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

CANOPY DETAILS

A-717

Plot Stamp:
12/5/2025 3:10:14 PM

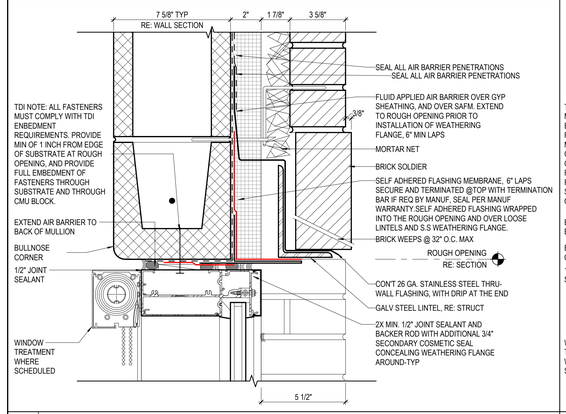
CURTAINWALL DETAILS AT MASONRY VENEER

A-722

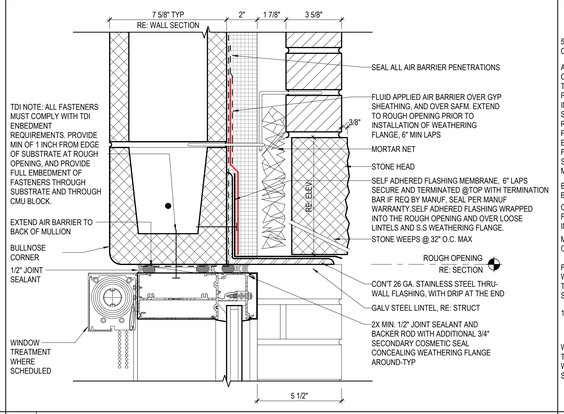
FOR BLUEBEAM LABELING/OCR:

0"

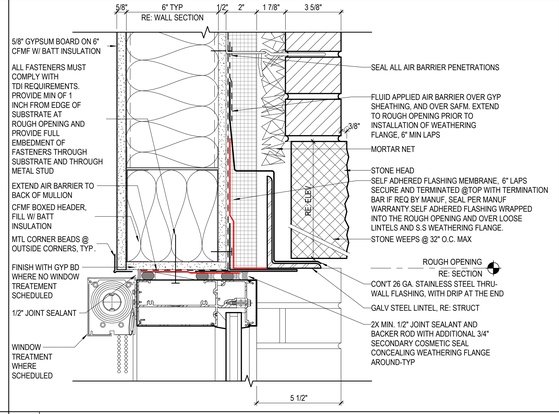
1"



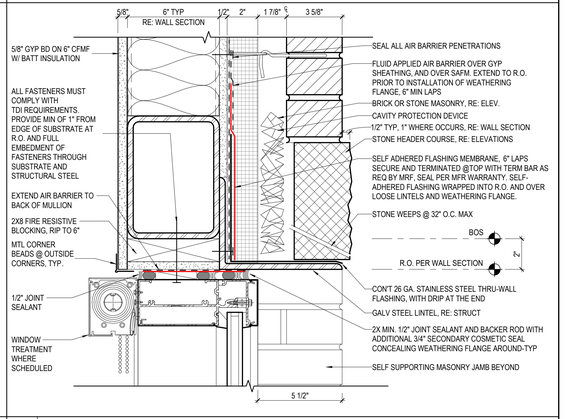
11 CW HEAD @ MODULAR BRICK CMU LOOSE LINTEL SOLDIER HEAD
3" = 1'-0"



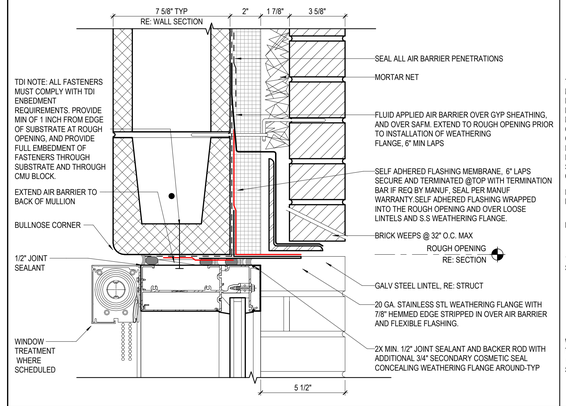
10 CW HEAD @ MODULAR BRICK CMU STRUCT LINTEL SOLDIER HEAD
3" = 1'-0"



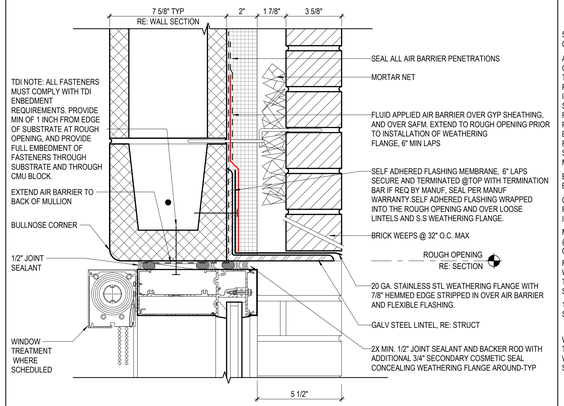
09 CW HEAD@MOD. BRICK CFMF LOOSE LINTEL(ALT)SOLDIER HEAD
3" = 1'-0"



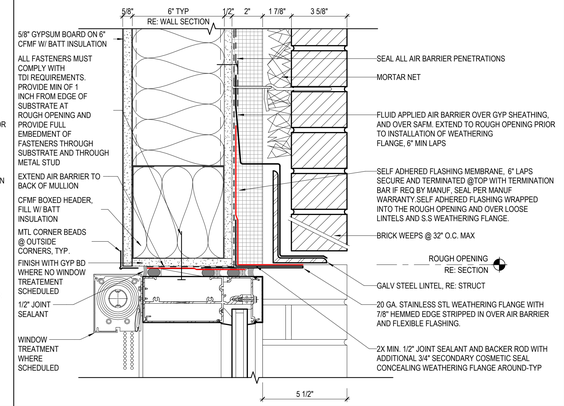
08 CW HEAD @ MODULAR BRICK ON CFMF, STRUCT LINTEL W/ STONE
3" = 1'-0"



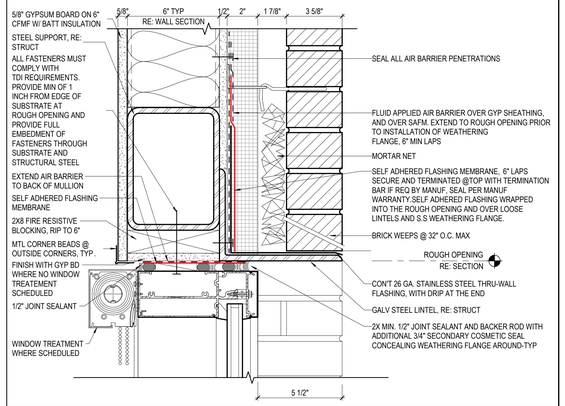
07 CW HEAD @ MODULAR BRICK CMU LOOSE LINTEL
3" = 1'-0"



06 CW HEAD @ MODULAR BRICK CMU STRUCT LINTEL
3" = 1'-0"

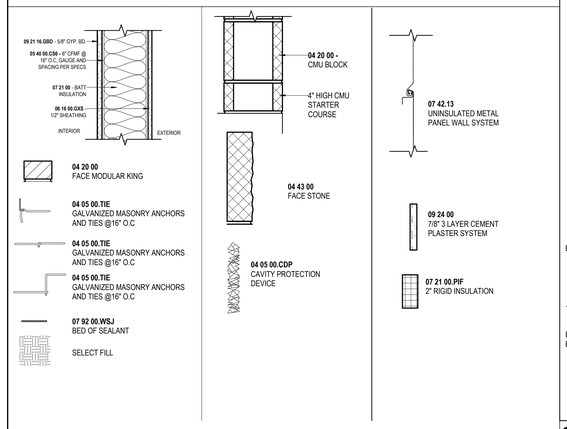


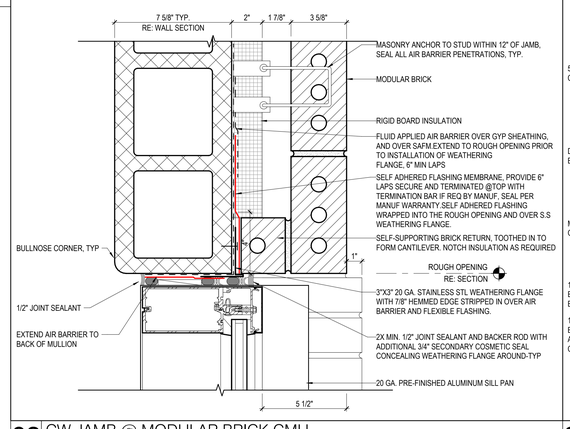
05 CW HEAD @ MODULAR BRICK CFMF LOOSE LINTEL (ALT)
3" = 1'-0"



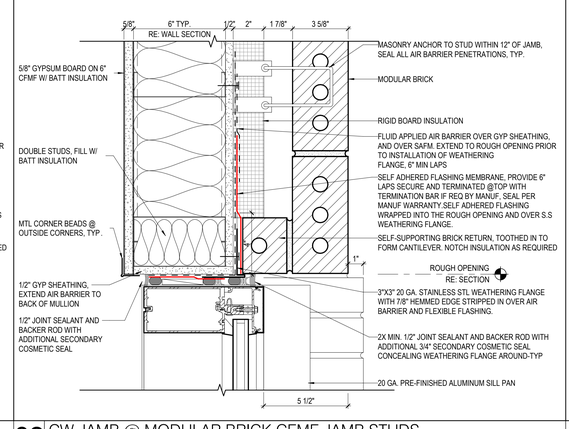
04 CW HEAD @ MODULAR BRICK CFMF STRUCT LINTEL
3" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

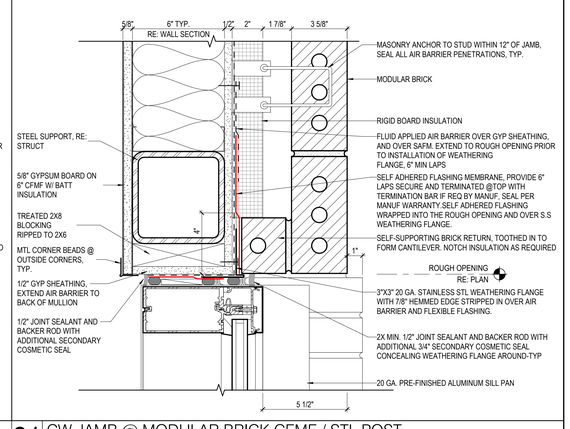




03 CW JAMB @ MODULAR BRICK CMU
3" = 1'-0"



02 CW JAMB @ MODULAR BRICK CFMF JAMB STUDS
3" = 1'-0"



01 CW JAMB @ MODULAR BRICK CFMF / STL POST
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:16 PM

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HDR
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BEAM
T.713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

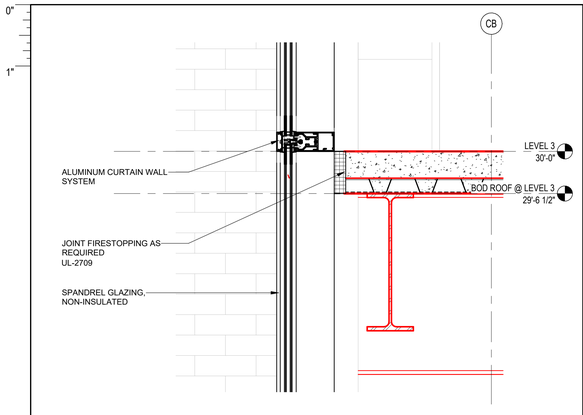
CURTAINWALL DETAILS AT MASONRY VENEER

A-722

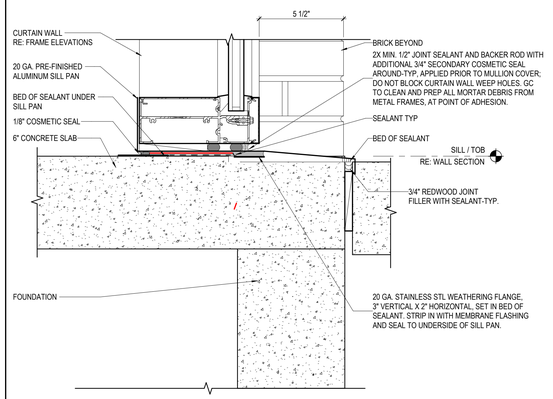
CURTAINWALL DETAILS AT MASONRY VENEER

A-723

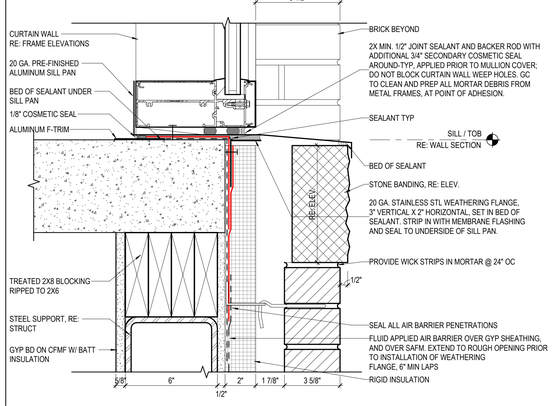
FOR BLUEBEAM LABELING/OCR:



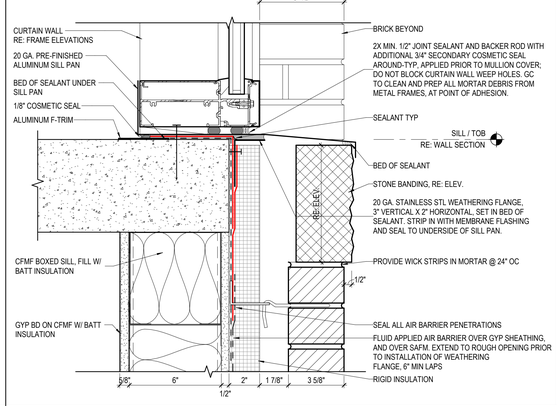
12 CURTAIN WALL AT FLOOR EDGE - FIRESAFE DETAIL
1 1/2" = 1'-0"



09 CW BASE @ SLAB & FOUNDATION
3" = 1'-0"

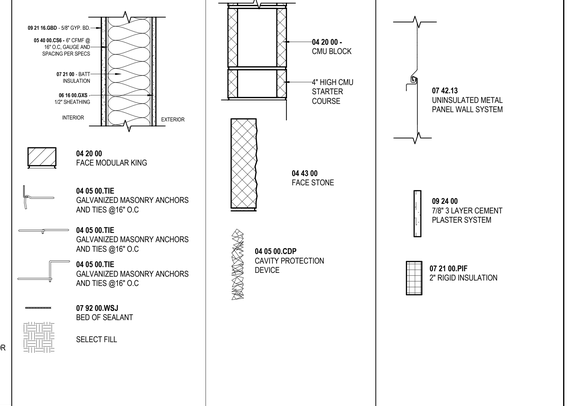


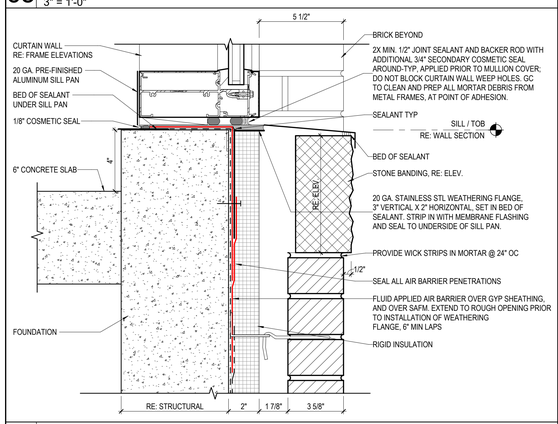
10 CW SILL @ SLAB & MODULAR BRICK CFMF STL POST
3" = 1'-0"



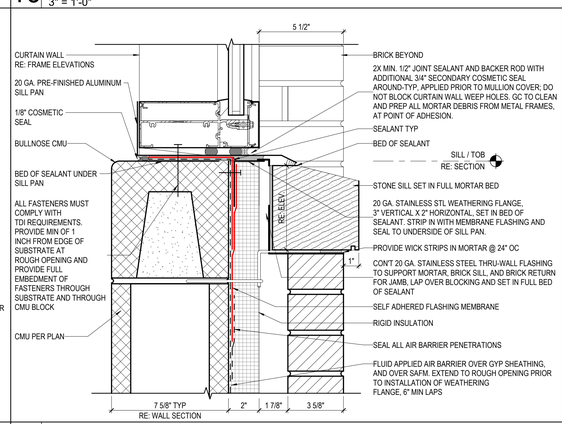
11 CW SILL @ SLAB & MODULAR BRICK CFMF
3" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

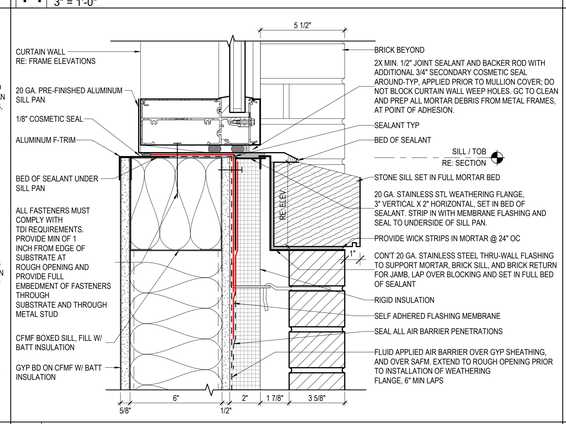




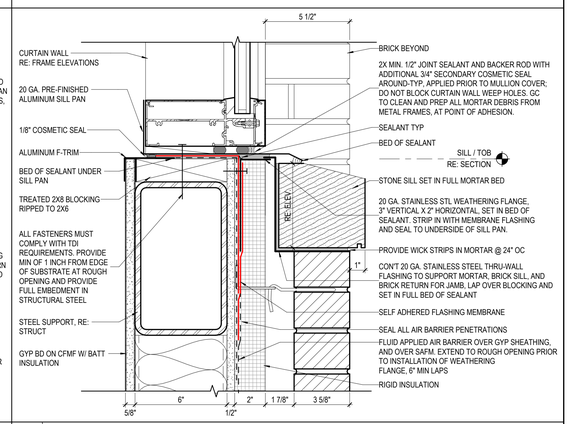
08 RAISED CW BASE @ RAISED SLAB & FOUNDATION
3" = 1'-0"



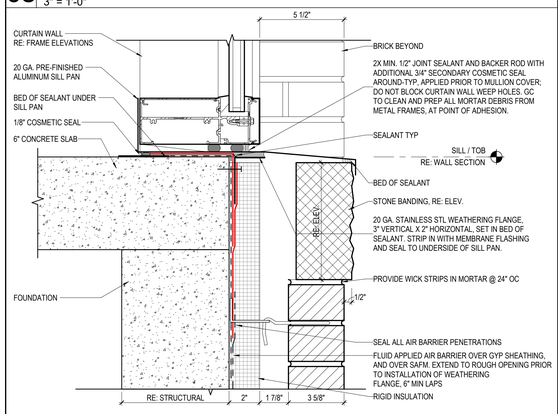
07 CW SLOPED SILL @ MODULAR BRICK CMU
3" = 1'-0"



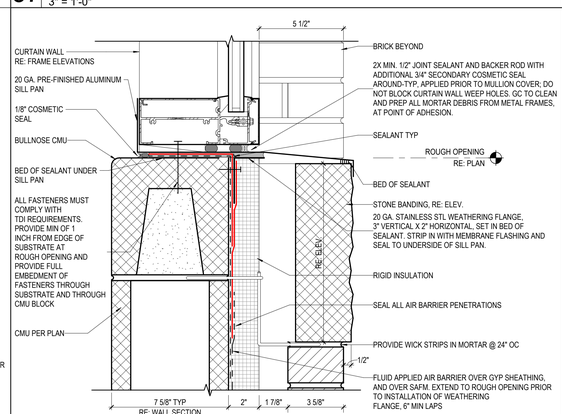
06 CW SLOPED SILL @ MODULAR BRICK CFMF
3" = 1'-0"



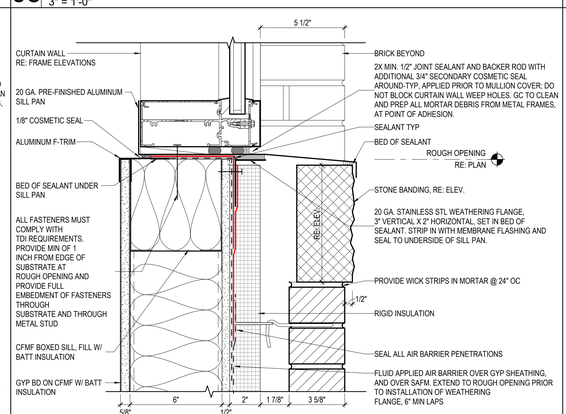
05 CW SLOPED SILL @ MODULAR BRICK CFMF STL POST
3" = 1'-0"



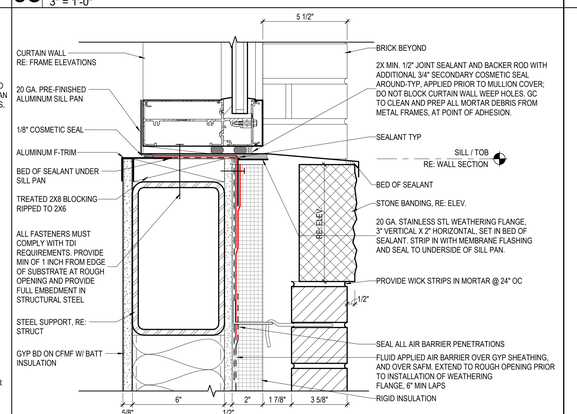
04 CW BASE @ RAISED SLAB & FOUNDATION
3" = 1'-0"



03 CW SILL @ MODULAR BRICK CMU
3" = 1'-0"



02 CW SILL @ MODULAR BRICK CFMF
3" = 1'-0"



01 CW SILL @ MODULAR BRICK CFMF STL POST
3" = 1'-0"

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Galena Park ISD

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: Author

CURTAINWALL DETAILS AT MASONRY VENEER

A-723

Plot Stamp:
12/5/2025 3:10:20 PM

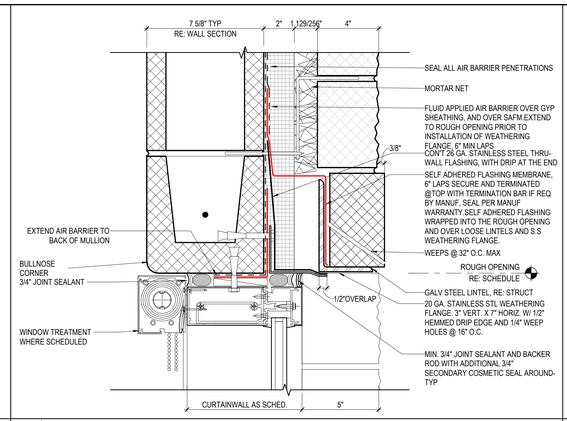
CURTAINWALL DETAILS AT MASONRY VENEER

A-724

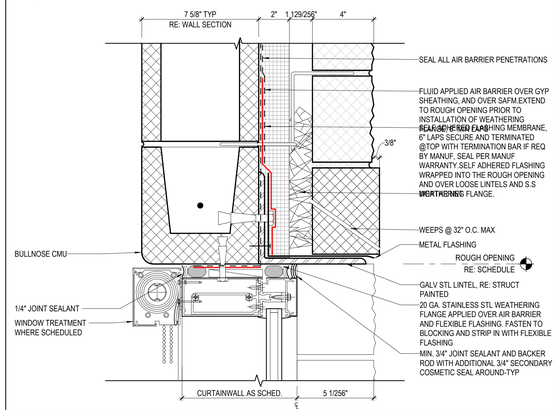
FOR BLUEBEAM LABELING/OCR:

0"

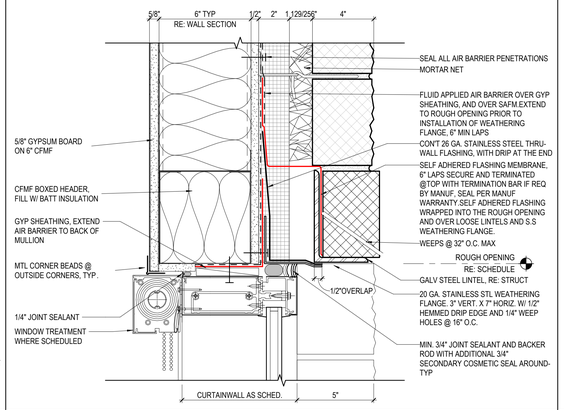
1"



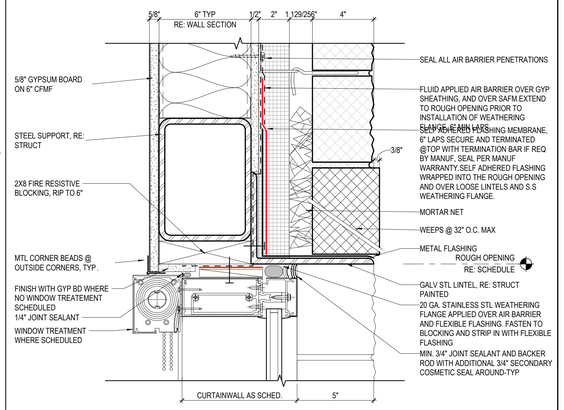
10 CW HEAD @ STONE CMU LOOSE LINTEL
3" = 1'-0"



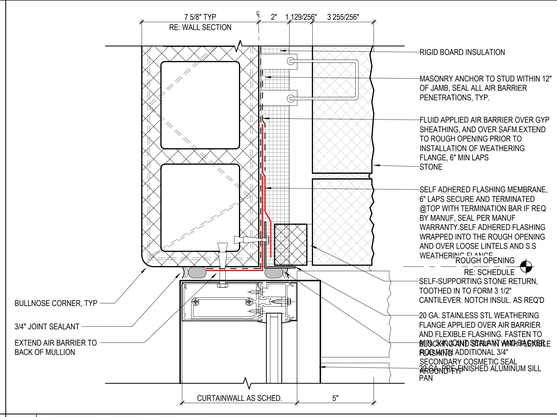
09 CW HEAD @ STONE CMU STRUCT LINTEL
3" = 1'-0"



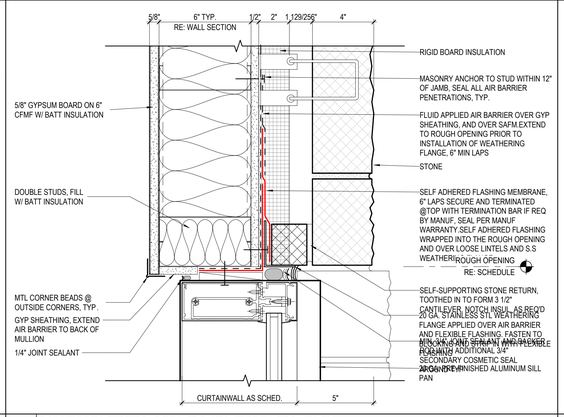
08 CW HEAD @ STONE CFMF LOOSE LINTEL (ALT)
3" = 1'-0"



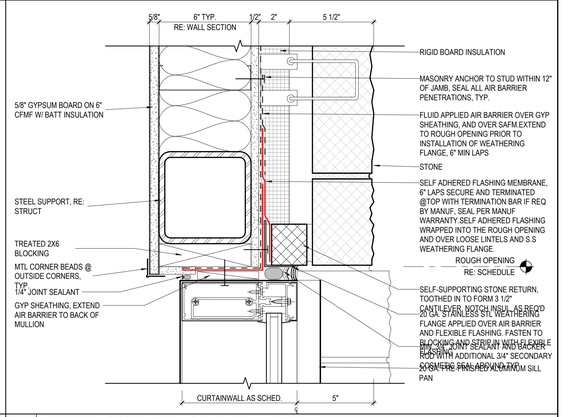
07 CW HEAD @ STONE CFMF STRUCT LINTEL
3" = 1'-0"



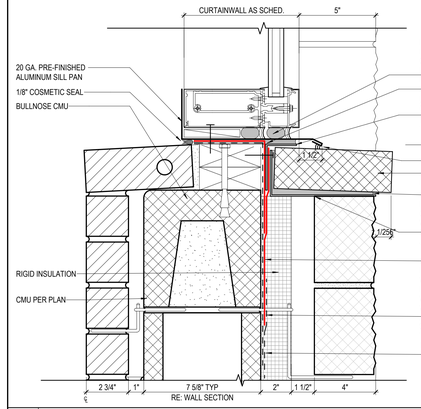
06 CW JAMB @ STONE CMU
3" = 1'-0"



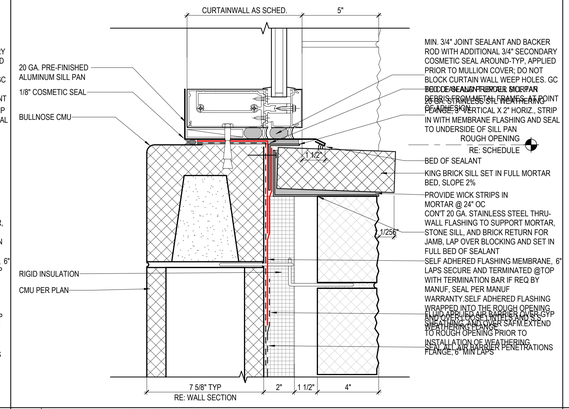
05 CW JAMB @ STONE CFMF JAMB STUDS
3" = 1'-0"



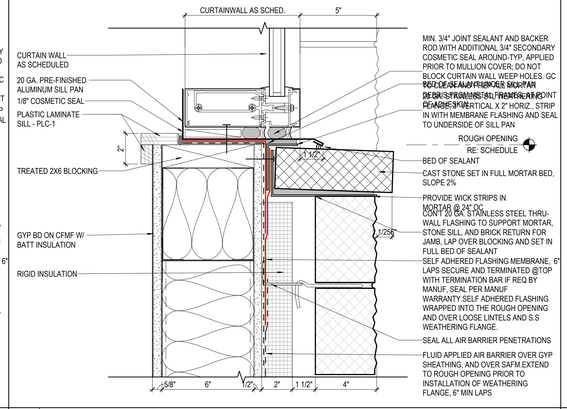
04 CW JAMB @ STONE CFMF / STL POST
3" = 1'-0"



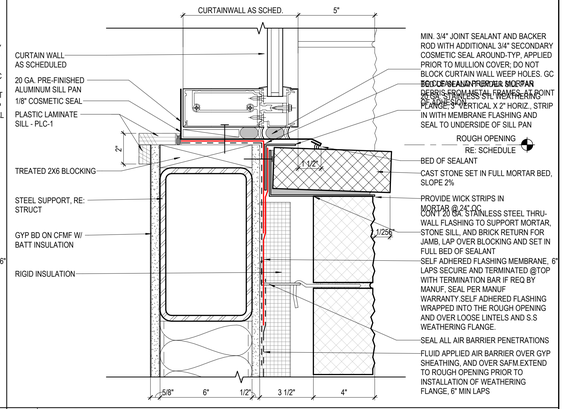
11 CW SILL @ STONE CMU WITH INTERIOR BRICK
3" = 1'-0"



03 CW SILL @ STONE CMU
3" = 1'-0"



02 CW SILL @ STONE CFMF
3" = 1'-0"



01 CW SILL @ STONE CFMF STL POST
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:22 PM

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CURTAINWALL DETAILS AT MASONRY VENEER

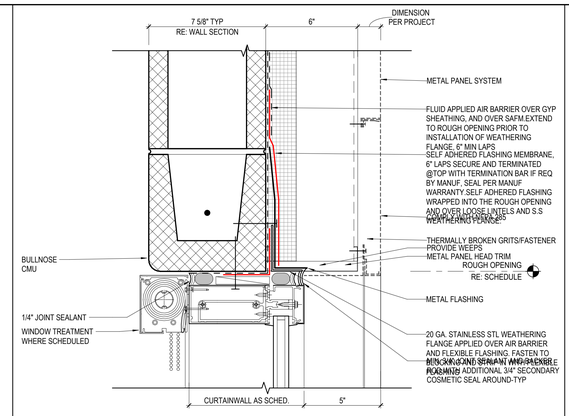
A-724

0"
1"

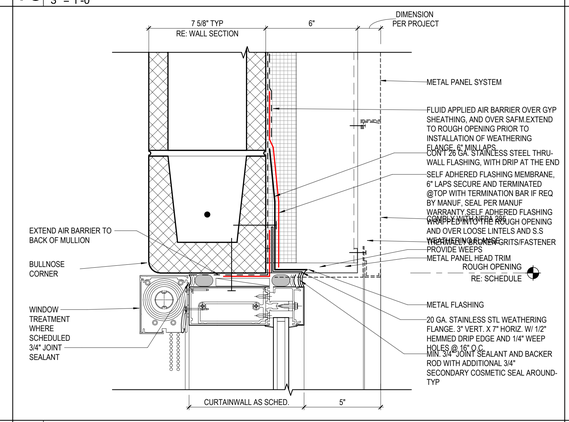
CURTAINWALL DETAILS AT METAL PANEL

A-725

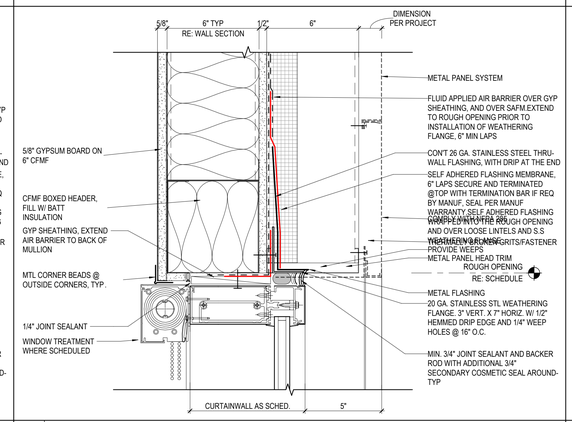
FOR BLUEBEAM LABELING/DOOR:



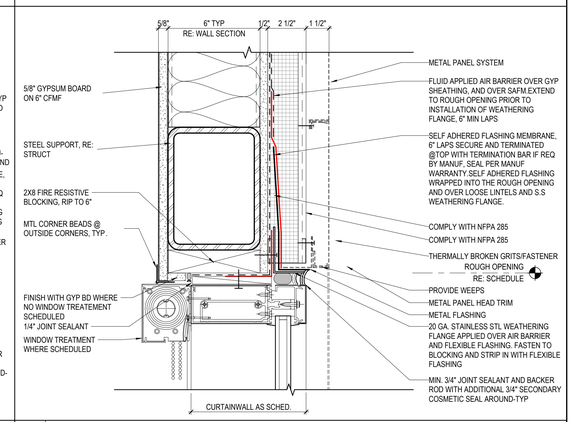
10 CW HEAD @ METAL PANEL CMU STRUCT
3" = 1'-0"



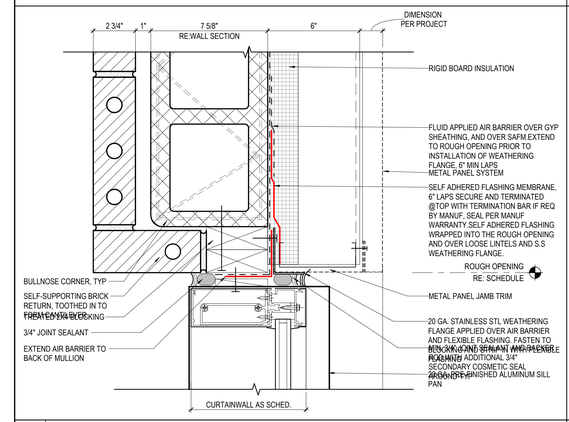
09 CW HEAD @ METAL PANEL CMU
3" = 1'-0"



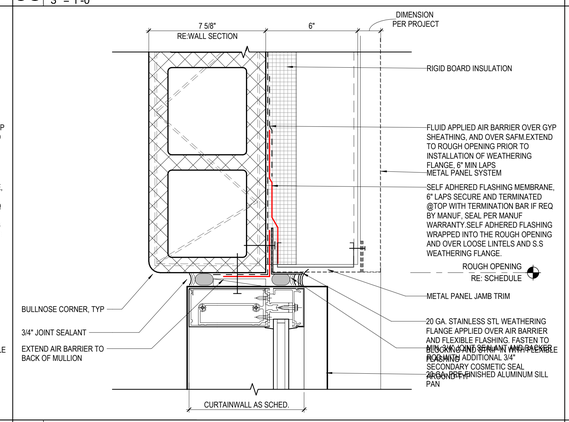
08 CW HEAD @ METAL PANEL CFMF (ALT)
3" = 1'-0"



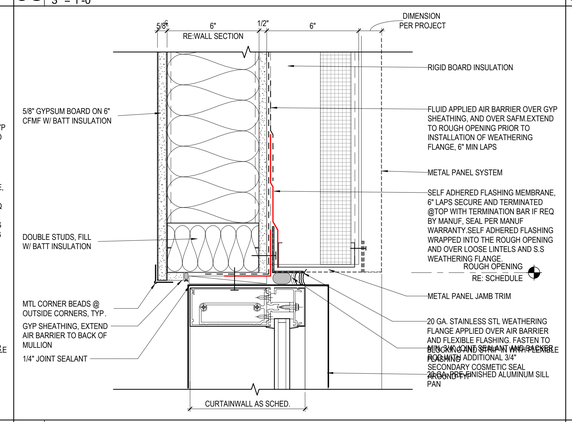
07 CW HEAD @ METAL PANEL CFMF STRUCT
3" = 1'-0"



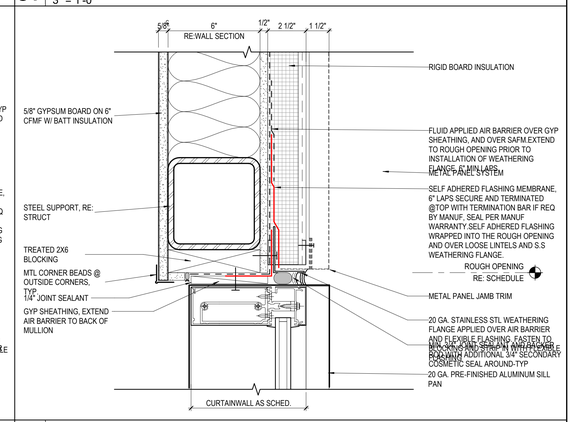
11 CW JAMB @ METAL PANEL CMU WITH INTERIOR BRICK
3" = 1'-0"



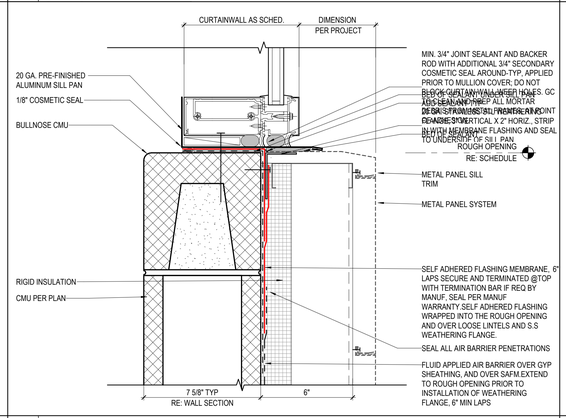
06 CW JAMB @ METAL PANEL CMU
3" = 1'-0"



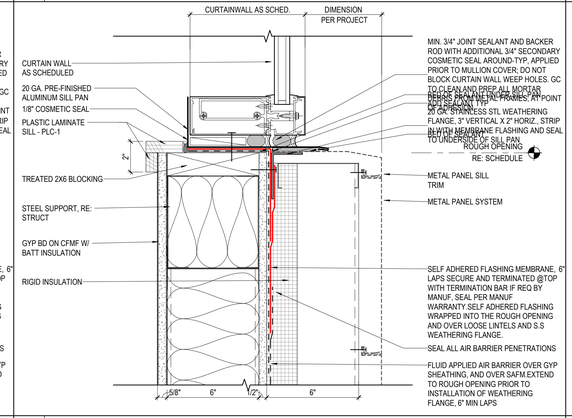
05 CW JAMB @ METAL PANEL CFMF JAMB STUDS
3" = 1'-0"



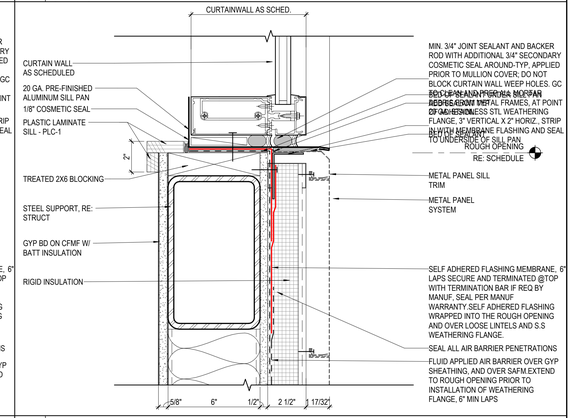
04 CW JAMB @ METAL PANEL CFMF / STL POST
3" = 1'-0"



03 CW SILL @ METAL PANEL CMU
3" = 1'-0"



02 CW SILL @ METAL PANEL CFMF
3" = 1'-0"



01 CW SILL @ METAL PANEL CFMF STL POST
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:24 PM

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SPORTS ARCHITECTURE
BEAM
T.713-965-0608
BUILDING ENVELOPE
BEAM
T.713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

CURTAINWALL DETAILS AT METAL PANEL

A-725

STOREFRONT DETAILS AT MASONRY VENEER

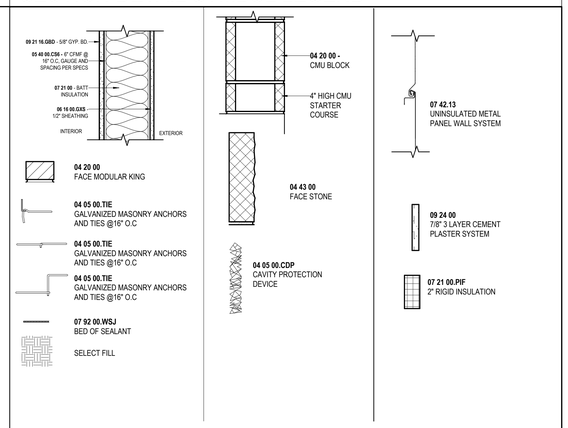
A-726

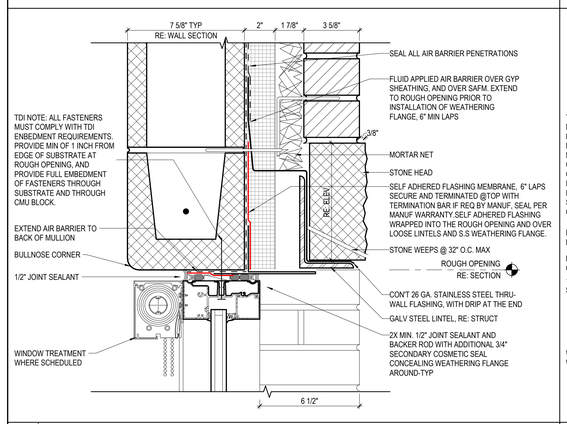
FOR BLUEBEAM LABELING/OCR:

0"

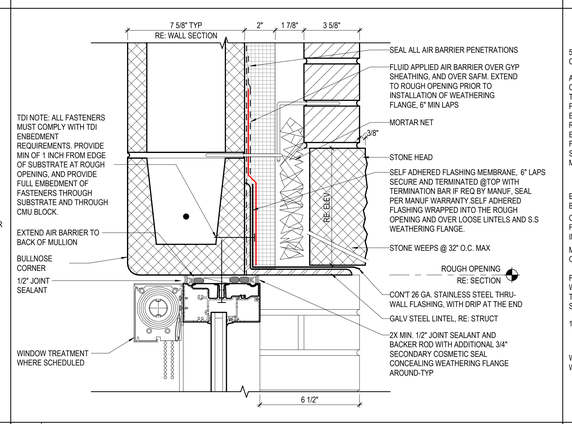
1"

SECTION DETAIL SYMBOL LEGEND

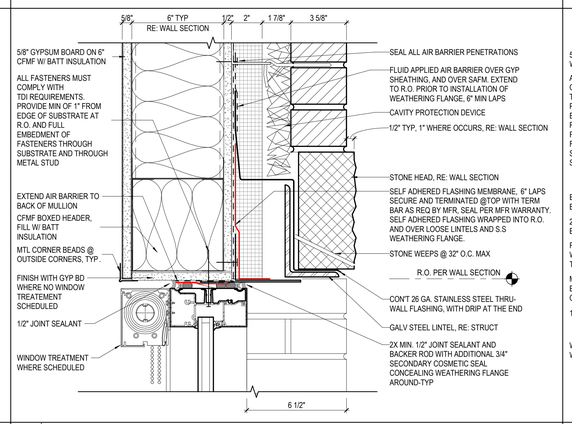




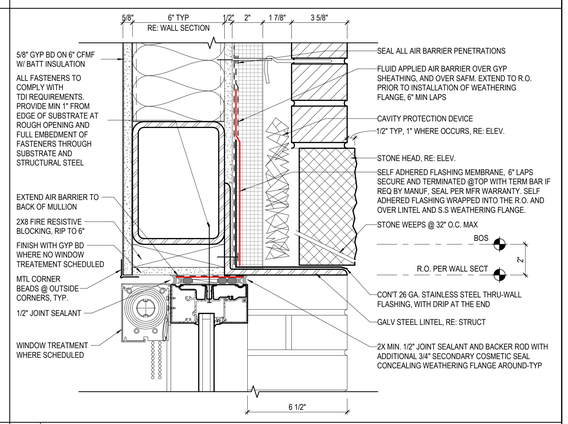
12 SF HEAD @ MODULAR BRICK CMU LOOSE LINTEL SOLDIER HEAD
3" = 1'-0"



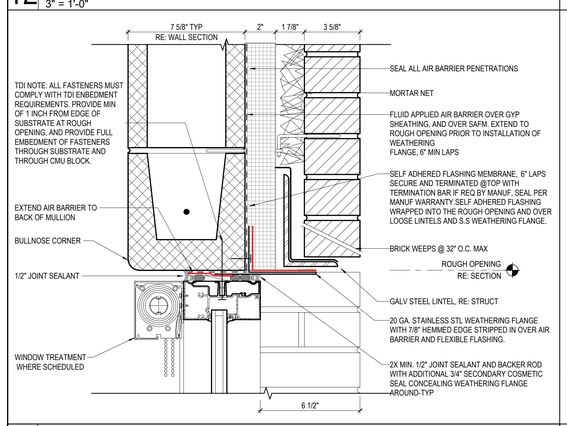
11 SF HEAD @ MODULAR BRICK CMU STRUCT LINTEL SOLDIER HEAD
3" = 1'-0"



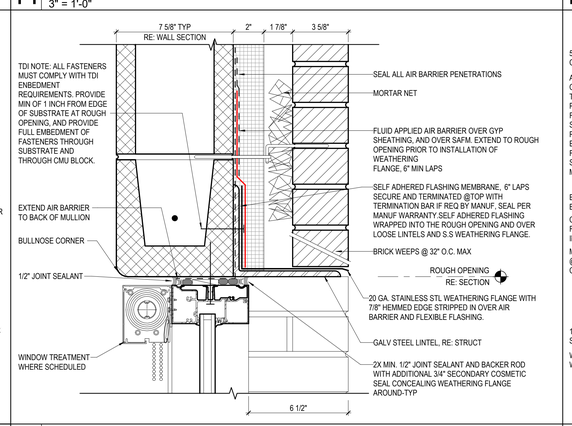
10 SF HEAD @ MASONRY ON CFMF, LOOSE LINTEL W/ STONE HEAD
3" = 1'-0"



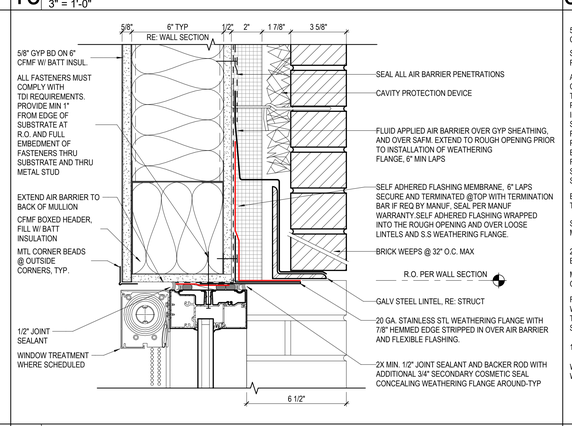
09 SF HEAD @ MASONRY ON CFMF, STEEL LINTEL W/ STONE HEADER
3" = 1'-0"



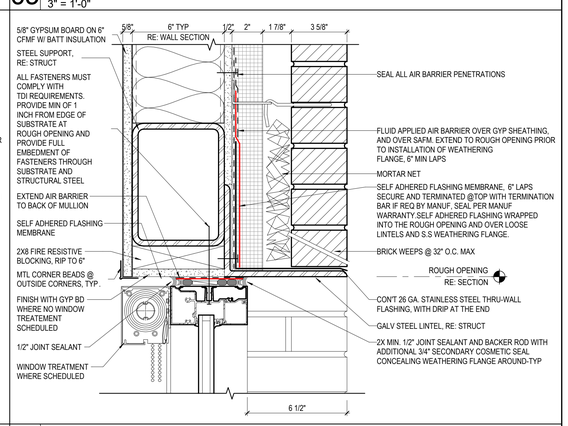
08 SF HEAD @ MODULAR BRICK CMU LOOSE LINTEL
3" = 1'-0"



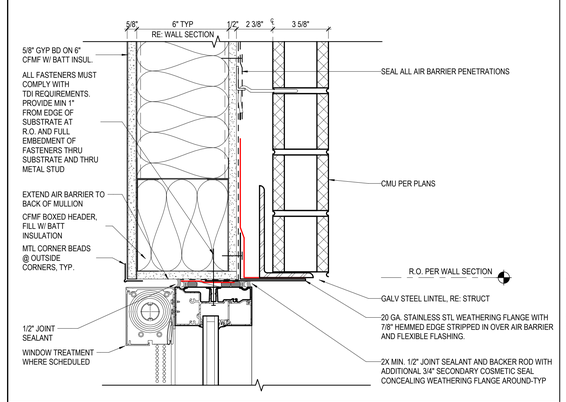
07 SF HEAD @ MODULAR BRICK CMU STRUCT LINTEL
3" = 1'-0"



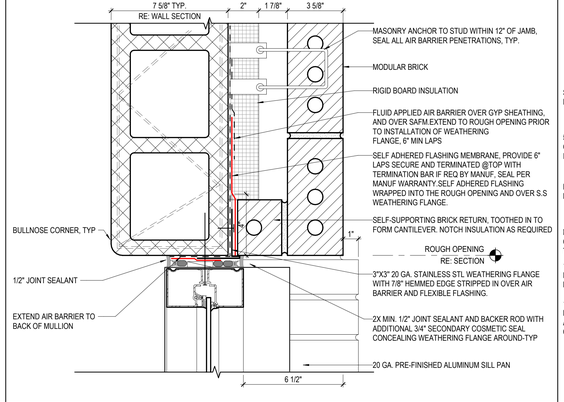
06 SF HEAD @ MASONRY ON CFMF W/ LOOSE LINTEL
3" = 1'-0"



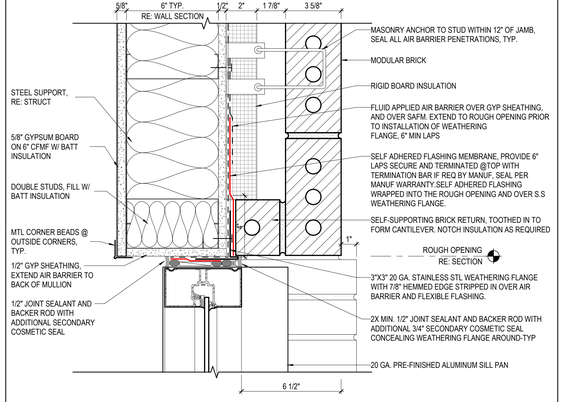
05 SF HEAD @ MODULAR BRICK CFMF, STRUCT LINTEL
3" = 1'-0"



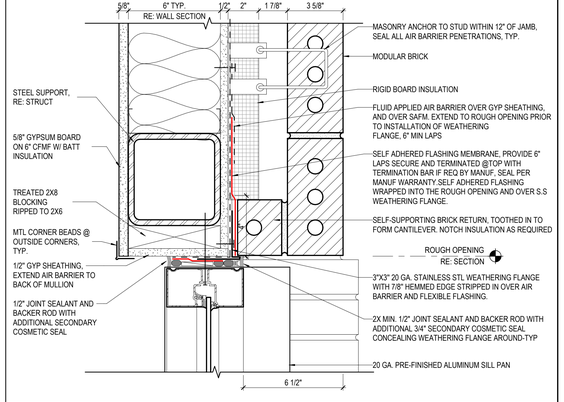
04 SF HEAD @ CMU ON CFMF W/ LOOSE LINTEL
3" = 1'-0"



03 SF JAMB @ MODULAR BRICK CMU
3" = 1'-0"



02 SF JAMB @MODULAR BRICK CFMF JAMB STUDS
3" = 1'-0"



01 SF JAMB @ MODULAR BRICK CFMF / STL POST
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:26 PM

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ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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STRUCTURAL
DALLY + ASSOCIATES, INC
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MEP
HKP
T.713-840-3300
THEATER + ACOUSTICS + A/V
SHEN
T.210-651-9800
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

STOREFRONT DETAILS AT MASONRY VENEER

A-726

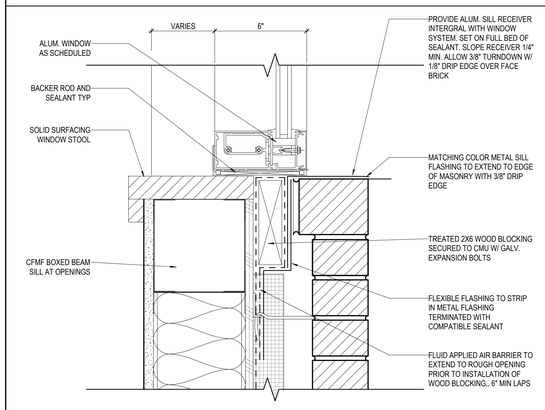
STOREFRONT DETAILS AT MASONRY VENEER

A-727

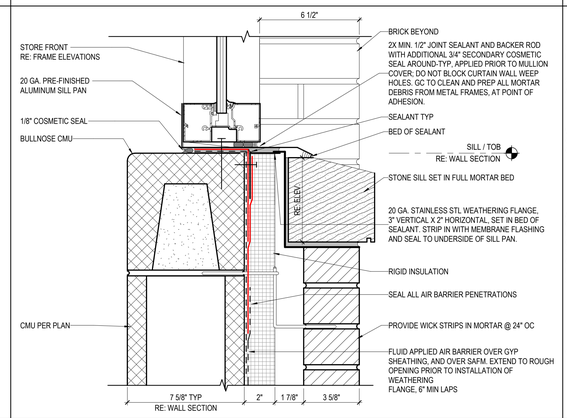
FOR BLUEBEAM LABELING/DOOR:

0"

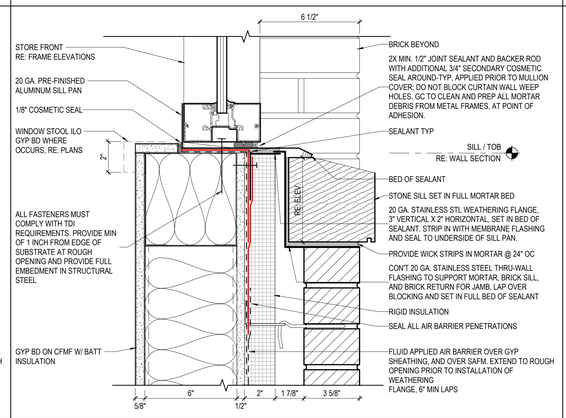
1"



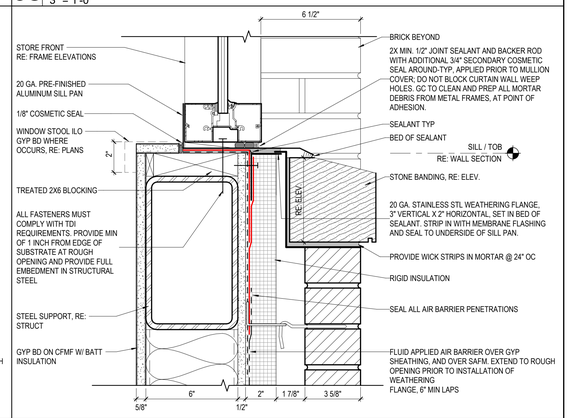
07 ALUM WINDOW SILL @ MODULAR ON CFMF
3" = 1'-0"



06 SF SLOPED SILL @ MODULAR BRICK CMU
3" = 1'-0"

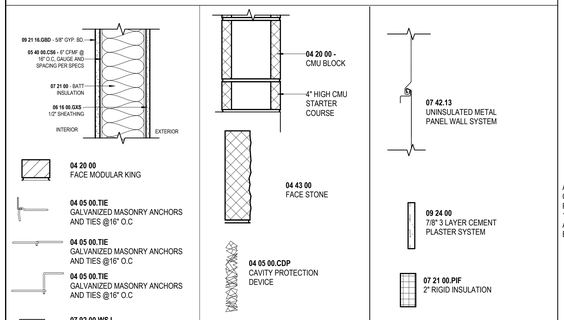


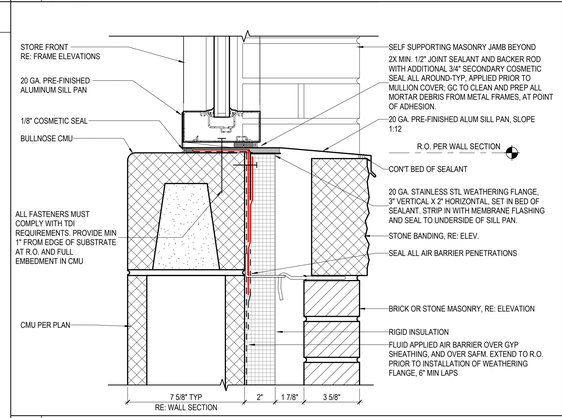
05 SF SLOPED SILL @ MODULAR BRICK CFMF
3" = 1'-0"



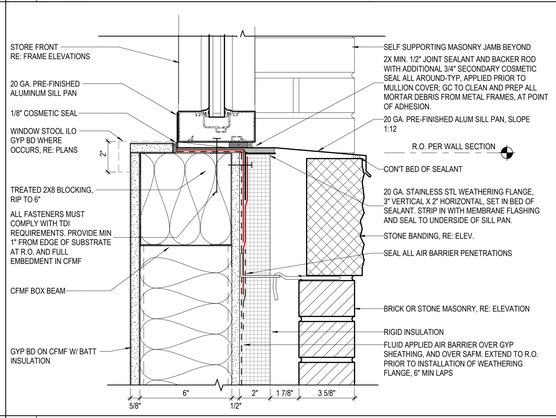
04 SF SLOPED SILL @ MODULAR BRICK CFMF STL POST
3" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

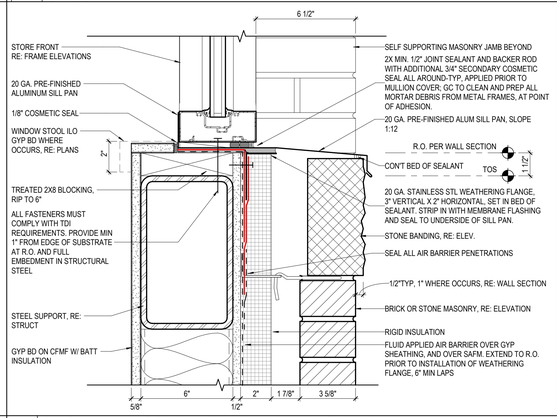




03 SF SILL @ MASONRY ON CMU W/ STONE SILL
3" = 1'-0"



02 SF SILL @ MASONRY ON CFMF W/ STONE SILL
3" = 1'-0"



01 SF SILL @ MASONRY, CFMF W/ STEEL SUPPORT
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:28 PM

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HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALUZA INC
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CIVIL SPORTS
KALUZA INC
T 713-503-0502
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STUDIO OUTDOOR
T 713-665-1088
STRUCTURAL
DALLY + ASSOCIATES, INC
T 713-337-8881
MEP
MEP2
T 713-840-3300
THEATER + ACOUSTICS + A/V
SHEN
T 210-651-9800
FOOD SERVICE
FSP
T 281-500-7707
SPORTS ARCHITECTURE
BEAM
T 713-965-0608
BUILDING ENVELOPE
BEAM
T 713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

STOREFRONT DETAILS AT MASONRY VENEER

A-727

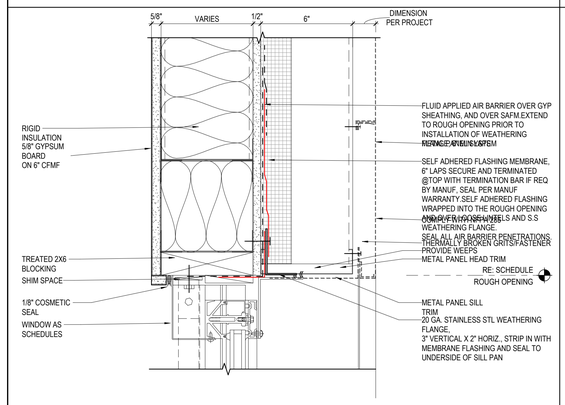
STOREFRONT DETAILS AT METAL PANEL

A-728

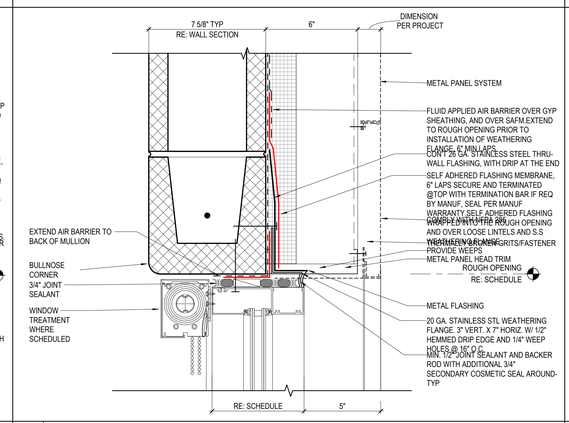
FOR BLUEBEAM LABELING/DOOR:

0"

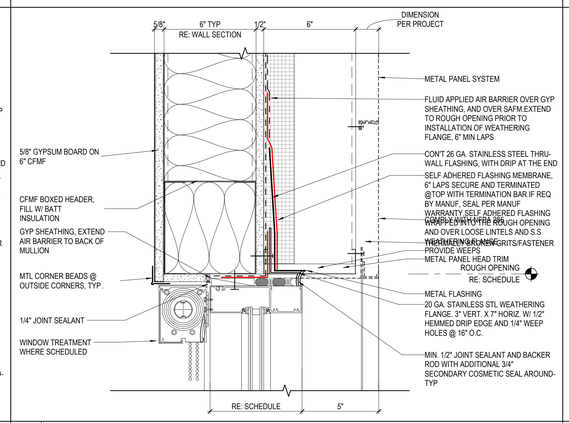
1"



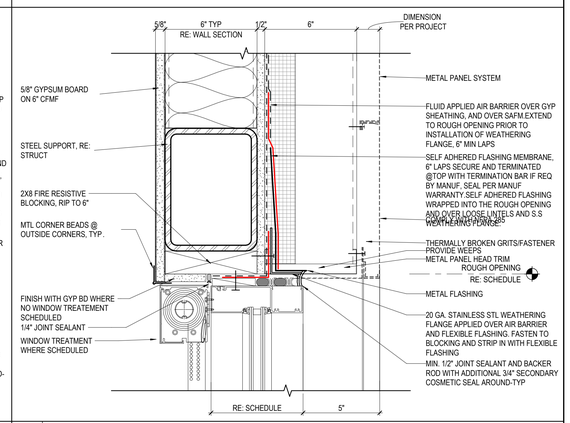
12 SF HEAD @ METAL PANEL CFMF SLOPED GLAZING
3" = 1'-0"



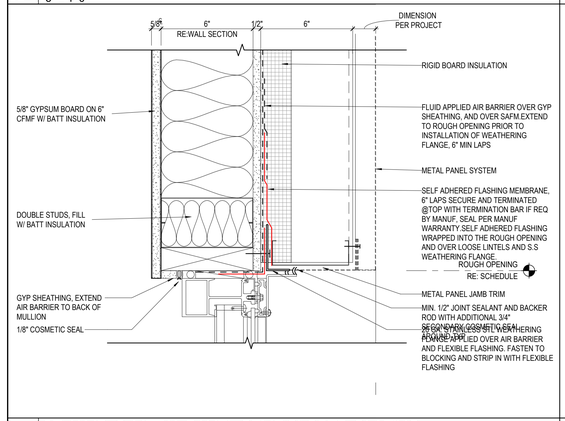
09 SF HEAD @ METAL PANEL CMU
3" = 1'-0"



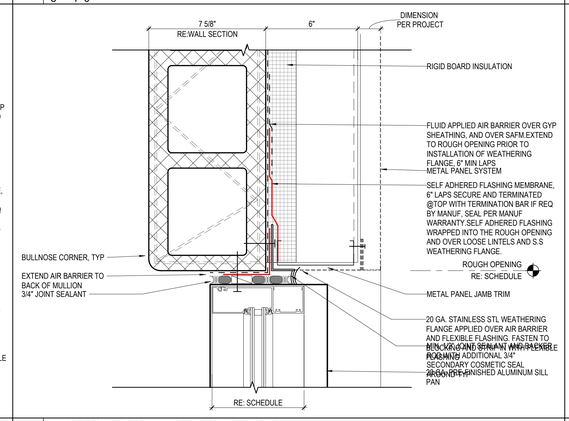
08 SF HEAD @ METAL PANEL CFMF (ALT)
3" = 1'-0"



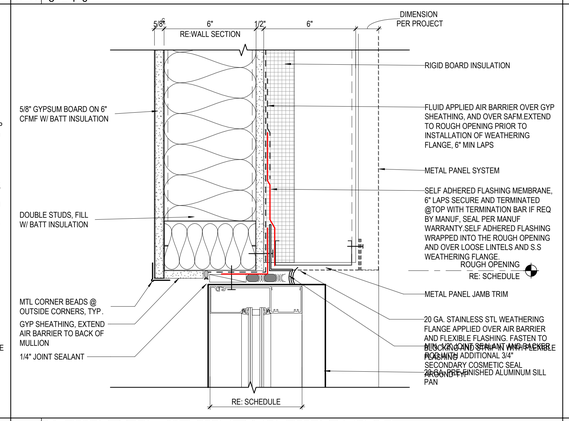
07 SF HEAD @ METAL PANEL CFMF STRUCT
3" = 1'-0"



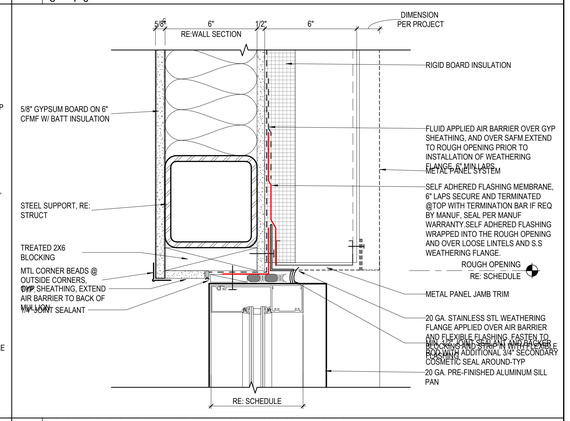
11 SF JAMB @ METAL PANEL CFMF SLOPED GLAZING
3" = 1'-0"



06 SF JAMB @ METAL PANEL CMU
3" = 1'-0"



05 SF JAMB @ METAL PANEL CFMF JAMB STUDS1
3" = 1'-0"



04 SF JAMB @ METAL PANEL CFMF / STL POST
3" = 1'-0"

10 SF SILL @ METAL PANEL CFMF SLOPED GLAZING
3" = 1'-0"

03 SF SILL @ METAL PANEL CMU
3" = 1'-0"

02 SF SILL @ METAL PANEL CFMF1
3" = 1'-0"

01 SF SILL @ METAL PANEL CFMF STL POST1
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:29 PM

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ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
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KALUZA INC
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DALLY + ASSOCIATES, INC
T.713-337-8881

MEP
MEP2
T.713-840-3300

THEATER + ACOUSTICS + A/V
ESI
T.210-651-9800

FOOD SERVICE
FSF
T.281-550-7707

SPORTS ARCHITECTURE
BEAM
T.713-965-0608

BUILDING ENVELOPE
BEAM
T.713-965-0608

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

STOREFRONT DETAILS AT METAL PANEL

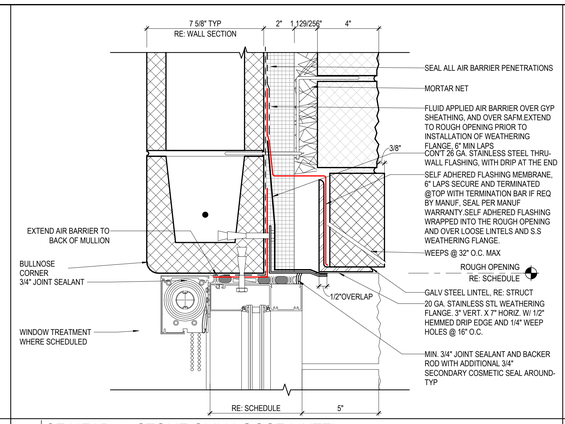
A-728

0"
1"

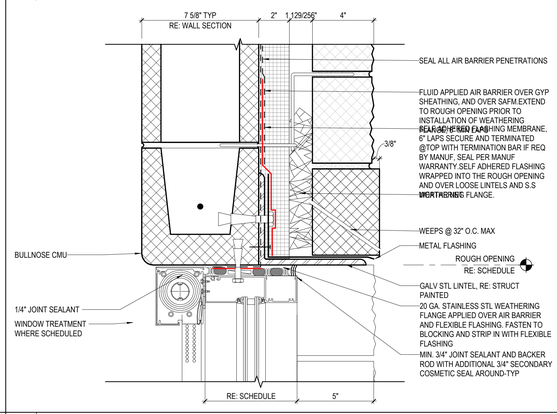
STOREFRONT DETAILS AT STONE MASONRY VENEER

A-729

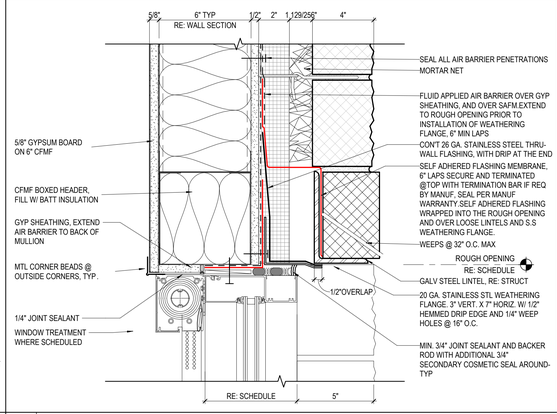
FOR BLUEBEAM LABELING/DOCR:



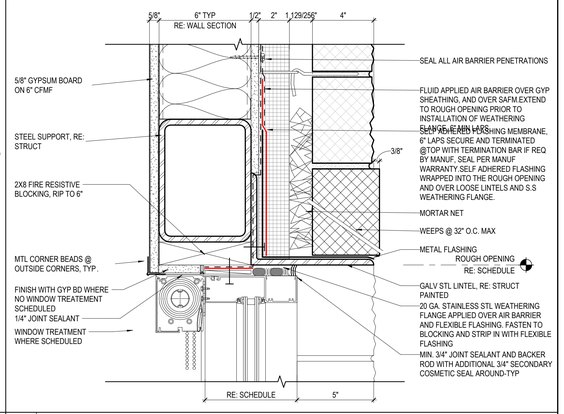
10 SF HEAD @ STONE CMU LOOSE LINTEL
3" = 1'-0"



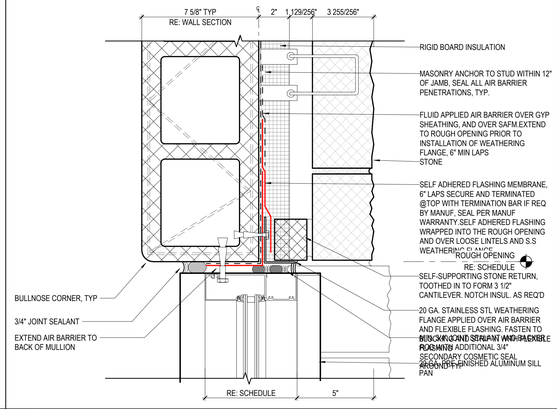
09 SF HEAD @ STONE CMU STRUCT LINTEL
3" = 1'-0"



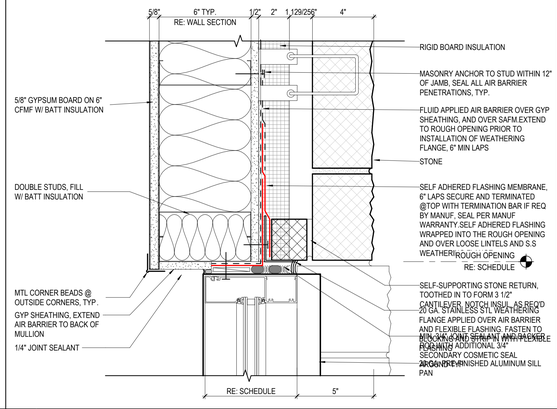
08 SF HEAD @ STONE CFMF LOOSE LINTEL (ALT)
3" = 1'-0"



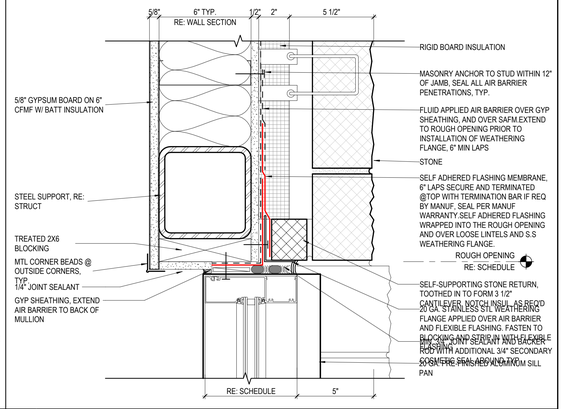
07 SF HEAD @ STONE CFMF STRUCT LINTEL
3" = 1'-0"



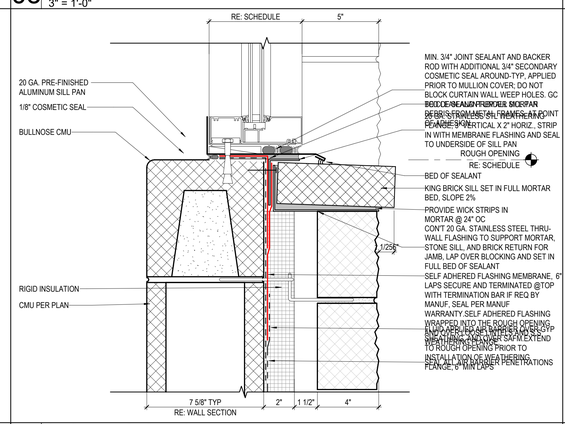
06 SF JAMB @ STONE CMU
3" = 1'-0"



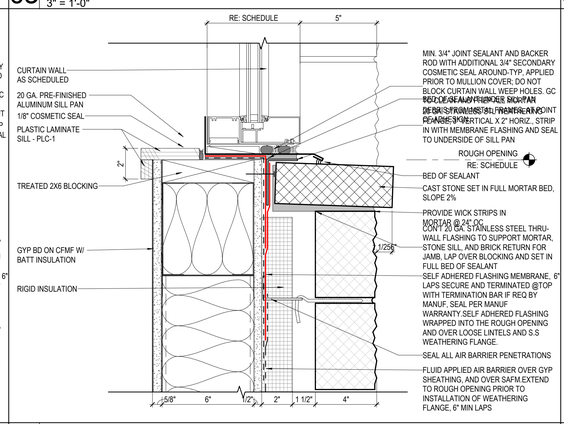
05 SF JAMB @ STONE CFMF JAMB STUDS
3" = 1'-0"



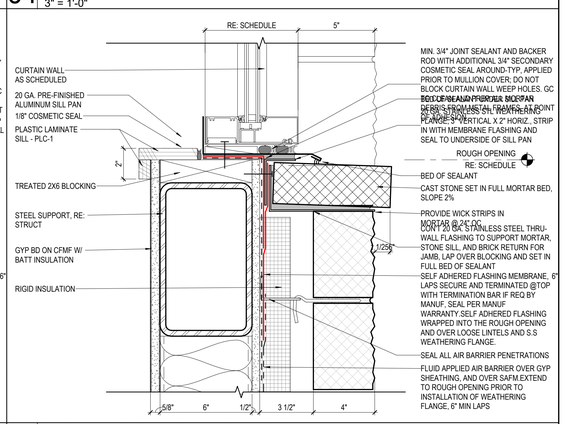
04 SF JAMB @ STONE CFMF / STL POST
3" = 1'-0"



03 SF SILL @ STONE CMU
3" = 1'-0"



02 SF SILL @ STONE CFMF
3" = 1'-0"



01 SF SILL @ STONE CFMF STL POST
3" = 1'-0"

Plot Stamp:
12/5/2025 3:10:31 PM

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HOUSTON PBK.com
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Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
KALUZA INC
T.281-341-0808
CIVIL SPORTS
KALUZA INC
T.713-503-0502
LANDSCAPE
KUDELA INC
T.713-665-0088
STRUCTURAL
DALLY + ASSOCIATES, INC
T.713-337-8881
MEP
MEP2
T.713-542-3300
THEATER + ACOUSTICS + A/V
SHEN
T.210-651-9800
FOOD SERVICE
FSP
T.281-503-7707
SPORTS ARCHITECTURE
BEAM
T.713-965-0608
BUILDING ENVELOPE
BEAM
T.713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

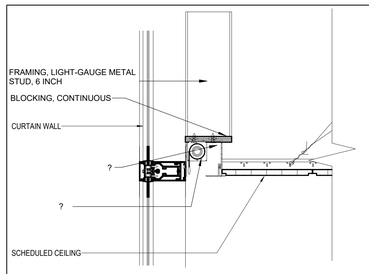
DRAWN BY: Author

STOREFRONT DETAILS AT STONE MASONRY VENEER

A-729

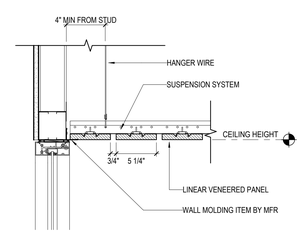
0"
1"

CEILING DETAILS
A-731
FOR BLUEBEAM LABELING/DOOR:



WINDOW SHADE CEILING POCKET

15 CEILING DETAIL 14
1 1/2" = 1'-0"



*PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.

14 CEILING DETAIL 13
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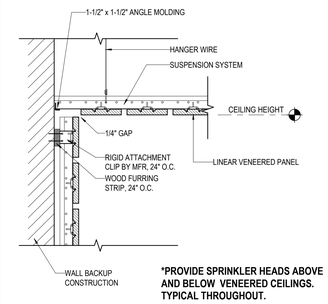

*PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.

13 CEILING DETAIL 12
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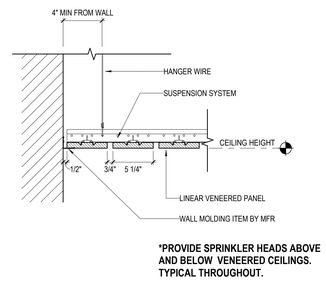

*PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.

12 CEILING DETAIL 11
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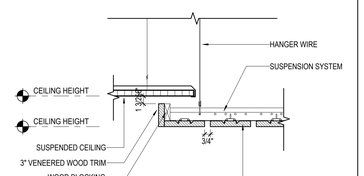

*PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.

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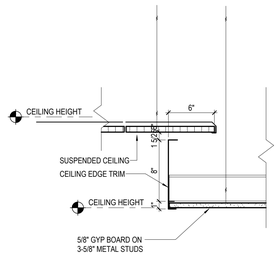

10 CEILING DETAIL 9
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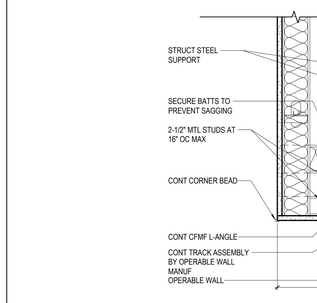
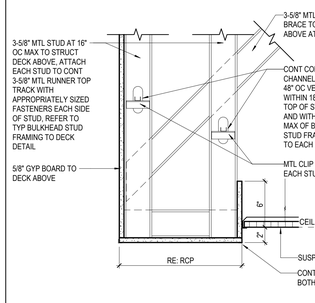


09 CEILING DETAIL - OPERABLE PARTITION
1 1/2" = 1'-0"



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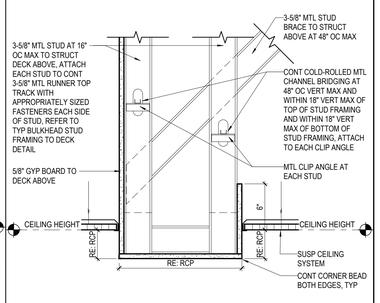

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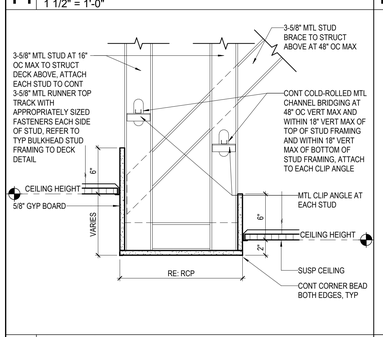

06 CEILING DETAIL 6
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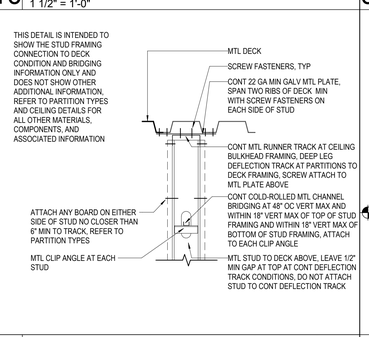
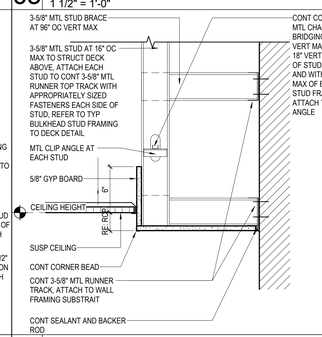


05 TYP BULKHEAD STUD FRAMING TO DECK
1 1/2" = 1'-0"



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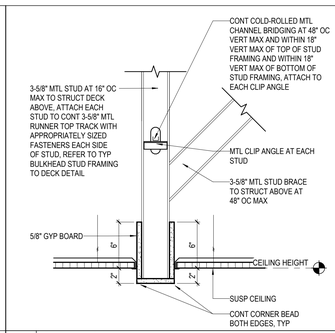
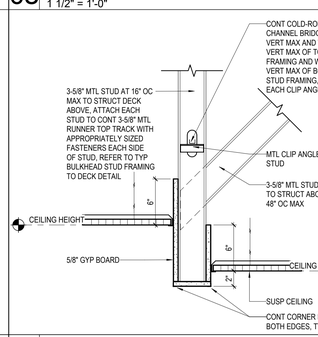
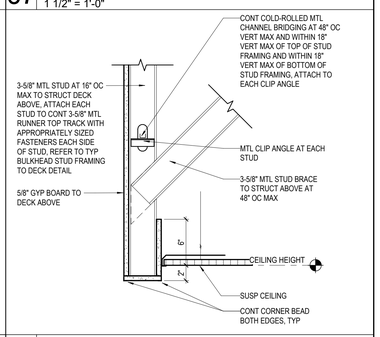


03 CEILING DETAIL 3
1 1/2" = 1'-0"



02 CEILING DETAIL 2
1 1/2" = 1'-0"



01 CEILING DETAIL 1
1 1/2" = 1'-0"

Plot Stamp:
12/5/2025 3:10:33 PM

PBK
HOUSTON, TX
713-365-0008
TX FIRM: BR 1608
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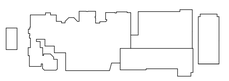
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

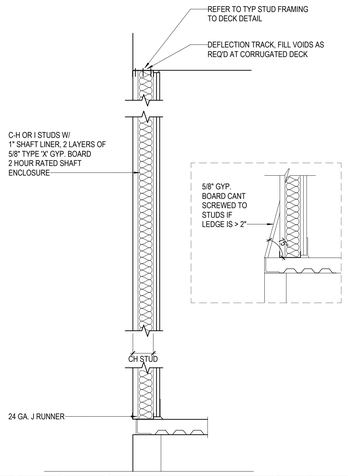
CEILING DETAILS

A-731

PARTITION TYPES
A-801A

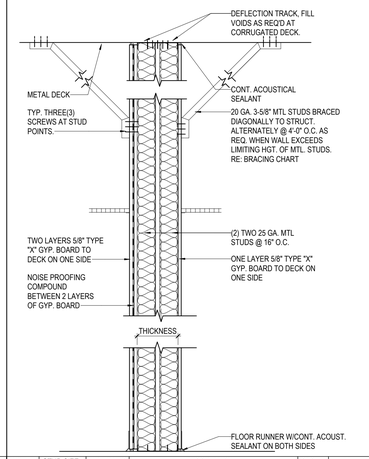
FOR BLUEBEAM LABELING/DOOR:

0"
1"



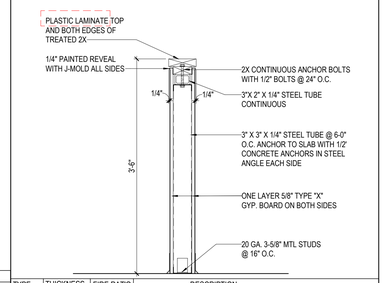
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
J4.1	4"	1HR	4" CH/I MTL STUD TO DECK (ONE LAYER 5/8" GYP.BD)		415A
J4.2	4"	2HR	4" CH/I MTL STUD TO DECK	53	
J6.2	6"	2HR	6" CH/I MTL STUD TO DECK	58	

16 TYPE: J (RATED SHAFT WALL)
1" = 1'-0"



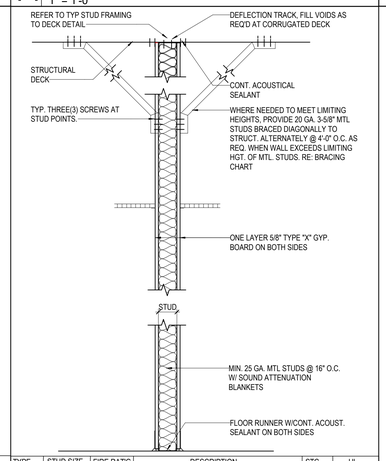
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
D33.1	3 5/8"&3 5/8"	1HR	2 LAYERS OF 3 5/8" MTL STUDS TO DECK		
D66.1	6"&6"	1HR	2 LAYERS OF 6" MTL STUDS TO DECK		

15 PARTITION TYPE - D DEMISING WALL
1" = 1'-0"



TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION
S3.P	3 5/8"	NONE	3 5/8" METAL STUDS PARTIAL HEIGHT WITH CAP
S6.P	6"	NONE	6" METAL STUDS PARTIAL HEIGHT WITH CAP

14 TYPE: S_.P (PONY WALL)
1" = 1'-0"



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
S3	3 5/8"	-	MTL STUDS TO DECK W/ 1 LAYER GWB EA. SIDE	45	-
S3.1	3 5/8"	1HR	-	45	U465
S6	6"	-	-	47	-
S6.1	6"	1HR	-	47	U465

13 PARTITION TYPES-BRACING CHART
12" = 1'-0"

BRACE FRAMING FOR 3-5/8" STUDS

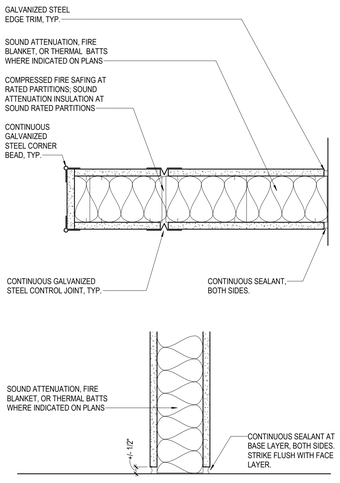
STUD TYPE	STUD PROP.	SPACING	MAX. LENGTH	MISCELLANEOUS
SJ 20 (40 KSI) (20 GA.)	1X = 0.541 IN^4	4'-0" O.C.	14'-0"	BRACE AT MID-POINT FOR LENGTHS OVER 14'-0"
	rx = 1.429 IN			
	A = 0.2136 IN^2			
	Sx = 0.273 IN^3			

BRACE FRAMING FOR 6" STUDS

STUD TYPE	STUD PROP.	SPACING	MAX. LENGTH	MISCELLANEOUS
SJ 20 (40 KSI) (20 GA.)	1X = 1.787 IN^4	4'-0" O.C.	20'-0"	BRACE AT MID-POINT FOR LENGTHS OVER 20'-0"
	rx = 2.253 IN			
	A = 0.2148 IN^2			
	Sx = 0.539 IN^3			

LIMITING HEIGHT OF METAL STUDS

08 PARTITION TYPES-TYP DETAILS
12" = 1'-0"



HOW TO USE THIS SHEET

1. NOT EVERY PARTITION TYPE SHOWN IS NECESSARILY INTENDED FOR USE ON THIS PROJECT, REFER TO FLOOR PLANS FOR REFERENCE MARKS INDICATING APPLICABLE PARTITION TYPES.
2. REFER TO BRACING DETAILS FOR SUPPORT OF THE TOP OF EACH PARTITION TYPE AND BRACING OF PARTITIONS THAT EXCEED LIMITING HEIGHT OF PARTITION TYPES.
3. REFER TO FINISH SCHEDULES FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
4. COORDINATE TOPS OF FINISHED WALLS WITH ADJACENT CEILING HEIGHTS PER SCHEDULES, SECTIONS AND OR DETAILS.
5. CONSULT ARCH. FOR ANY DISCREPANCIES OR QUESTIONS REGARDING PARTITIONS PRIOR TO INSTALLATION.

INTERIOR METAL STUD PARTITION NOTES

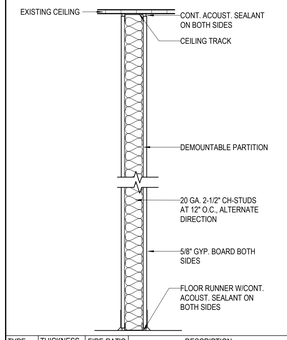
1. ALL METAL STUD PARTITIONS SHALL BE 25 GAUGE METAL STUDS AT 16" O.C. U.N.O. IF THE LIMITING HEIGHT FOR A 25 GAUGE METAL STUD PARTITION IS EXCEEDED, INCREASE GAUGE OF STUDS. NOTIFY ARCH. PRIOR TO INSTALLATION.
2. PROVIDE 20 GAUGE METAL STUDS AT STUD WALL WITH TILE FINISHES.
3. METAL STUD PARTITION BRACING
   A. WHERE BRACING METHODS BETWEEN THIS SHEET AND STRUCT. CONFLICT, STRUCT. SHALL OVERRIDE. NOTIFY ARCH. PRIOR TO INSTALLATION.
   B. PROVIDE INTERMEDIATE BRACING AT ALL METAL STUD PARTITIONS THAT EXCEED THE VERTICAL LIMIT HEIGHT OF METAL STUDS
   C. ALL BRACING SHALL BE AT STUD POINTS
4. SET ALL FLOOR TRACKS ON A CONTINUOUS RIBBON OF SEALANT.
5. USE CONT. DEEP LEG DEFLECTION TRACK AT TOP OF ALL PARTITION CONNECTIONS AT TOP-OF-DECK LOCATIONS, REFER TO "TYP STUD FRAMING TO DECK" DETAIL.
6. PROVIDE GLASS MAT GYPSUM GYPSUM TILE BACKER FULL HEIGHT AT ALL PARTITIONS AT SHOWERS, ADJACENT TO ALL PLUMBING FIXTURES, AND AT ALL PARTITIONS WITH TILE FINISHES.
7. PROVIDE TYPE MOISTURE-RESISTANT GYPSUM BOARD FULL HEIGHT AT ALL PARTITION NOT AT SHOWERS, NOT ADJACENT TO PLUMBING FIXTURES, AND WITHOUT TILE FINISHES IN ALL TOILET ROOMS.
8. RIGIDLY BRACE ALL DOOR FRAMES AT THE HEAD, HINGE, AND STRIKE SIDES, RIGIDLY BRACE ALL WINDOW FRAMES AT THE HEAD, JAMBS, AND SILL.
9. LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS
   A. PARTITIONS OR FURRING EXCEEDING 30'-0" SPANS HORIZ. AND OR VERT.
   B. WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
   C. AT CHANGES WITHIN PLANE OF PARTITION
   D. AT EXPANSION JOINTS
   E. AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR FRAMES AND WINDOW FRAMES, ABOVE AND BELOW FOR FULL HEIGHT OF WALL
10. FIRE-RATED PARTITIONS
    A. REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR DETAILED DESCRIPTIONS OF FIRE-RATED PARTITIONS
    B. PROVIDE TYPE "X" FIRE RESISTIVE GYPSUM BOARD, 5/8" THICK U.N.O.
    C. FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSUL.
    D. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. FIRE-RATED SEALANT
11. PARTITIONS WITH SOUND ATTENUATION BATT INSUL. BLANKETS
    A. PROVIDE FULL THICK SOUND ATTENUATION BATT INSUL. BLANKETS FULL HEIGHT OF PARTITION U.N.O.
    B. FILL ALL GAPS AND DECK VOIDS WITH CONT. SOUND ATTENUATION SAFING INSUL.
    C. TAPE AND BED OR CAULK ALL JOINTS BETWEEN GYPSUM BOARD PANELS
    D. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. ACOUSTICAL SEALANT (USE SEALANT INDICATED IN ITEM ABOVE, IN LIEU OF ACOUSTICAL SEALANT, AT PARTITIONS DESIGNATED AS FIRE-RATED PARTITIONS)

INTERIOR CMU PARTITION NOTES

1. CMU PARTITION BRACING
   A. WHERE BRACING METHODS BETWEEN THIS SHEET AND STRUCT. CONFLICT, STRUCT. SHALL OVERRIDE, NOTIFY ARCH. PRIOR TO INSTALLATION.
   B. PROVIDE INTERMEDIATE BRACING AT ALL CMU PARTITIONS AT CONDITIONS AS INDICATED ON THE "PARTITION TYPES-TYP CMU WALL BRACING" DETAIL.
2. REFER TO WALL SECTIONS FOR THE USE OF STARTER COURSES AT THE BASE OF INTERIOR PARTITIONS.
3. PROVIDE CMU LINTELS FOR ALL OPENINGS IN INTERIOR CMU PARTITIONS, COORD. WITH STRUCT. DOCUMENTS.
4. PROVIDE 3/4" SPACE BETWEEN TOP OF CMU PARTITION AND STRUCTURE AND OR DECK ABOVE FOR POTENTIAL DEFLECTION, SEAL AS INDICATED ON PARTITION TYPE, OR AS INDICATED IN THESE NOTES
5. REFER TO STRUCT. DOCUMENTS FOR ALL REINFORCING, BOND BEAM LOCATIONS, AND LINTEL SCHEDULES.
6. LOCATE CONTROL JOINTS IN CMU PARTITIONS AS FOLLOWS, U.N.O. BY STRUCT.
   A. PARTITIONS EXCEEDING 25'-0" IN PLAN LENGTH
   B. WHERE PARTITION ABUTS A STRUCTURAL ELEMENT OF DISSIMILAR WALL
   C. AT EXPANSION JOINTS
   D. REFER TO DETAILS FOR ADDITIONAL LOCATIONS
7. FIRE-RATED PARTITIONS
   A. REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR DETAILED DESCRIPTIONS OF FIRE-RATED PARTITIONS
   B. FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSUL.
   C. SEAL FIRE-RATED PARTITION PERIMETER AND ALL PENETRATIONS WITH CONT. FIRE-RATED SEALANT

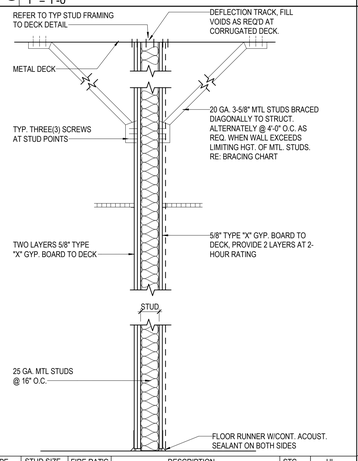
PARTITION SYMBOL LEGEND

- CMU BLOCK - REFER TO TABLE FOR THICKNESS
- CONT. BOND BEAM BLOCK - REFER TO TABLE FOR THICKNESS
  REINFORCE W/ CONT. REBAR @ 9'-0" A.F.F.:
  - (2) #4 @ 6" CMU
  - (2) #5 @ 8" CMU
  UNO BY STRUCTURE
- CONT. BOND BEAM REINFORCED W/ (2) #4 CONT. UNO BY STRUCTURE - REFER TO TABLE FOR THICKNESS
- SOUND ATTENUATION BLANKETS
- SCHEDULED CEILING



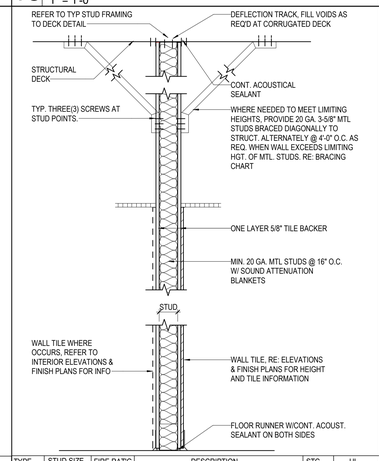
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC
S3.R	3 5/8"	NONE	3 5/8" METAL STUDS UNDER THE CEILING	
S6.R	6"	NONE	6" METAL STUDS UNDER THE CEILING	

12 TYPE: S_.R (TO UNDERSIDE OF CEILING)
1" = 1'-0"



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
C3.1	3 5/8"	1HR	2 LAYERS GWB ONE SIDE, 1 LAYER OTHER SIDE	49	U419
C6.1	6"	1HR	2 LAYERS GWB ONE SIDE, 1 LAYER OTHER SIDE	51	U419
C3.2	3 5/8"	2HR	2 LAYERS GWB BOTH SIDES	57	U411
C6.2	6"	2HR	2 LAYERS GWB BOTH SIDES	59	U411

11 TYPE: C_ (STUD W/ MULTIPLE GWB LAYERS)
1" = 1'-0"
ONLY FOR INTERIOR RENOVATION PROJECTS



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC
F3	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK	35
F6	6"	NONE	6" METAL STUDS TO DECK	37

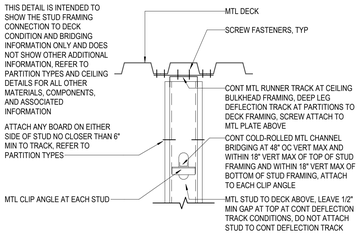
10 TYPE: S_.T (TYP. MTL STUD W/ TILE)
1" = 1'-0"

TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
S3.T	3 5/8"	-	MTL STUDS TO DECK W/ GWB EA. SIDE, TILE FINISH	47	-
S3.T1	3 5/8"	1HR		47	U465
S6.T	6"	-		49	-
S6.T1	6"	1HR		49	U465

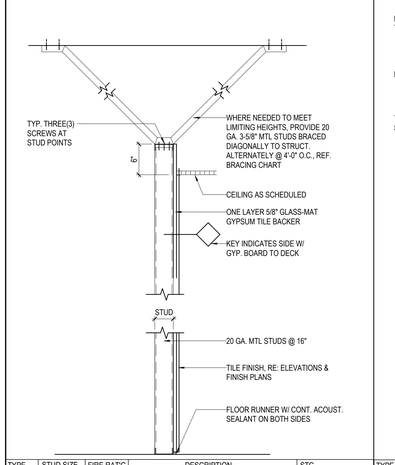
09 TYPE: S_ (TYP. MTL STUD PARTITION)
1" = 1'-0"

TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC
F3	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK	35
F6	6"	NONE	6" METAL STUDS TO DECK	37

07 PARTITION TYPES-STUD FRAMING TO DECK
1 1/2" = 1'-0"

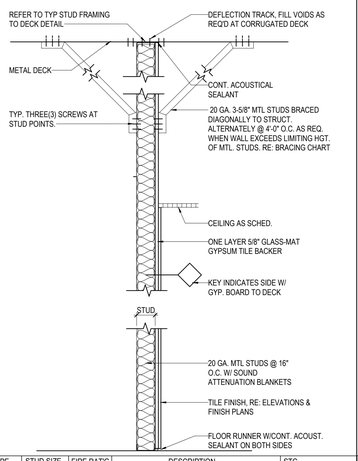


06 TYPE: F_.CT (TYP. FURRING WALL W/TILE)
1" = 1'-0"



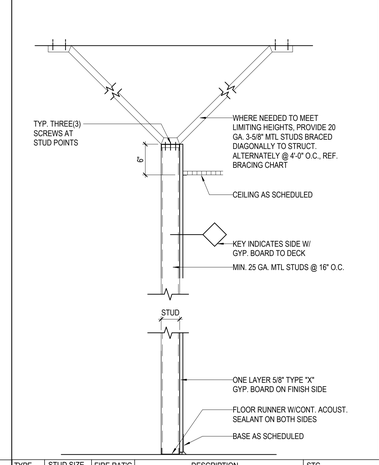
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC
F1.C	7/8"	NONE	7/8" HAT CHANNELS	-
F2.C	2 1/2"	NONE	2 1/2" METAL STUDS	-
F3.C	3 5/8"	NONE	3 5/8" METAL STUDS	-

05 TYPE: F_.T (FURRING TO DECK W/ TILE)
1" = 1'-0"



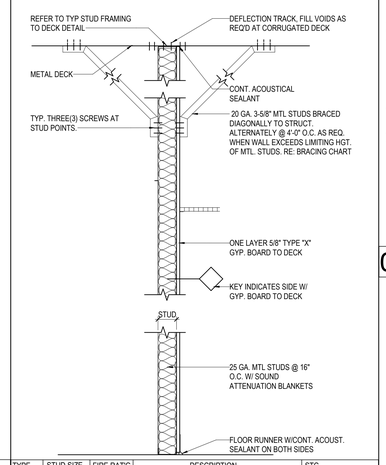
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC
F3	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK	35
F6	6"	NONE	6" METAL STUDS TO DECK	37

04 TYPE: F_.C (TYP. FURRING WALL)
1" = 1'-0"



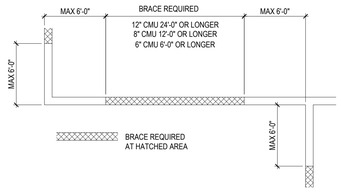
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC
F1.C	7/8"	NONE	7/8" HAT CHANNELS	-
F2.C	2 1/2"	NONE	2 1/2" METAL STUDS	-
F3.C	3 5/8"	NONE	3 5/8" METAL STUDS	-

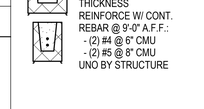
03 TYPE: F_ (FURRING TO DECK)
1" = 1'-0"



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC
F3	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK	35
F6	6"	NONE	6" METAL STUDS TO DECK	37

02 PARTITION TYPES-TYP CMU WALL BRACING
12" = 1'-0"





01 PARTITION TAG LEGEND
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE





CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

PARTITION TYPES

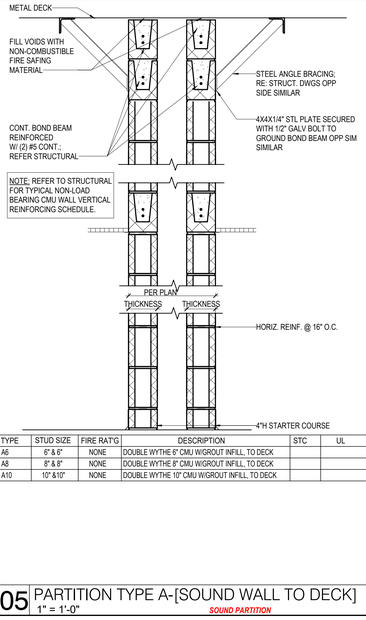
A-801A

0"
1"

PARTITION TYPES
A-801B
FOR BLUEBEAM LABELING/DOOR:

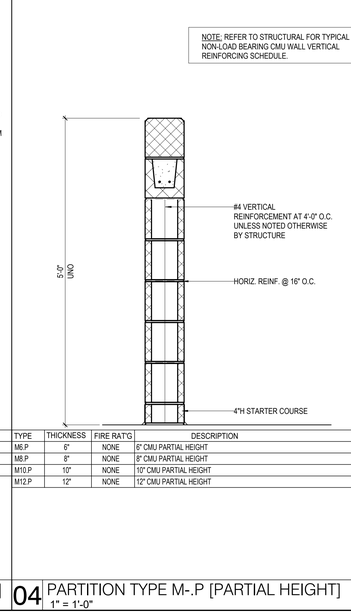
PARTITION SYMBOL LEGEND

- CMU BLOCK - REFER TO TABLE FOR THICKNESS
- CONT. BOND BEAM BLOCK - REFER TO TABLE FOR THICKNESS REINFORCE W/ CONT. REBAR @ 9'-0" A.F.F.:
  - (2) #4 @ 6" CMU
  - (2) #5 @ 8" CMU
  UNO BY STRUCTURE
- CONT. BOND BEAM REINFORCED W/ (2) #4 CONT. UNO BY STRUCTURE - REFER TO TABLE FOR THICKNESS
- SOUND ATTENUATION BLANKETS
- SCHEDULED CEILING



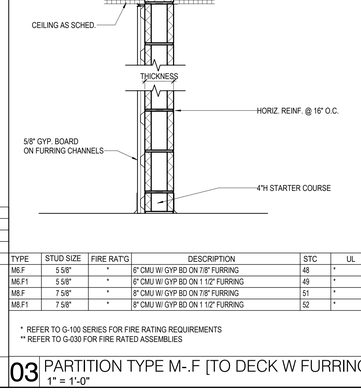
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
B8.2	8" & 8"	2HR	DOUBLE WYTHE 8" CMU WITH AIR SPACE		
B10.2	10" & 10"	2HR	DOUBLE WYTHE 10" CMU WITH AIR SPACE		
B12.2	12" & 12"	2HR	DOUBLE WYTHE 12" CMU WITH AIR SPACE		

11 PARTITION TYPE B-[BLDG SEPARATION]
1" = 1'-0"



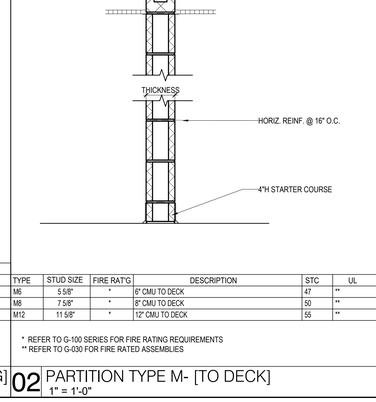
TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
E6	6" & 6"	NONE	DOUBLE WYTHE 6" CMU W/GROUT INFILL		
E6.1	6" & 6"	1HR	DOUBLE WYTHE 6" CMU W/GROUT INFILL		
E8	8" & 8"	NONE	DOUBLE WYTHE 8" CMU W/GROUT INFILL		
E8.1	8" & 8"	1HR	DOUBLE WYTHE 8" CMU W/GROUT INFILL		
E10	10" & 10"	NONE	DOUBLE WYTHE 10" CMU W/GROUT INFILL		
E10.1	10" & 10"	1HR	DOUBLE WYTHE 10" CMU W/GROUT INFILL		

10 PARTITION TYPE E-[SOUND WALL TO DECK]
1" = 1'-0"
SOUND PARTITION - FROM HIGH CLG TO HIGH CLG SPACE



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
E66	6" & 6"	NONE	6" CMU & 6" CMU W/GROUT INFILL, W/6" METALSTUDS		
E68	6" & 8"	NONE	6" CMU & 8" CMU W/GROUTINFILL, W/6" METAL STUDS		

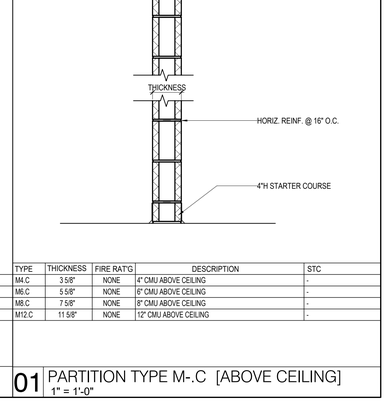
09 PARTITION TYPE E-- [SOUND WALL TO DECK]
1" = 1'-0"



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
K6.F	5 5/8"	*	6" CMU W/ GYP BD ON 7/8" FURRING	48	*
K6.F1	5 5/8"	*	6" CMU W/ GYP BD ON 1 1/2" FURRING	49	*
K8.F	7 5/8"	*	8" CMU W/ GYP BD ON 7/8" FURRING	51	*
K8.F1	7 5/8"	*	8" CMU W/ GYP BD ON 1 1/2" FURRING	52	*

* REFER TO G-100 SERIES FOR FIRE RATING REQUIREMENTS
** REFER TO G-030 FOR FIRE RATED ASSEMBLIES

08 PARTITION TYPE K-.F [TO DECK W FINISH]
1" = 1'-0"



TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
K6	5 5/8"	*	6" CMU W/ METAL STUDS TO DECK	47	**
K8	7 5/8"	*	8" CMU W/ METAL STUDS TO DECK	50	**

* REFER TO G-100 SERIES FOR FIRE RATING REQUIREMENTS
** REFER TO G-030 FOR FIRE RATED ASSEMBLIES

07 PARTITION TYPE K- [TO DECK]
1" = 1'-0"

TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
A6.C	6" & 6"	NONE	DOUBLE WYTHE 6" CMU ABV CLG W/GROUT INFILL		
A8.C	8"& 8"	NONE	DOUBLE WYTHE 8" CMU ABV CLG W/GROUT INFILL		
A10.C	10" & 10"	NONE	DOUBLE WYTHE 10"CMU ABV CLG W/GROUT INFILL		

06 PARTITION TYPE A-.C[SOUND W. ABV CLG]
1" = 1'-0"
SOUND PARTITION - LOW CEILING TO LOW CEILING

TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
A6	6" & 6"	NONE	DOUBLE WYTHE 6" CMU W/GROUT INFILL, TO DECK		
A8	8" & 8"	NONE	DOUBLE WYTHE 8" CMU W/GROUT INFILL, TO DECK		
A10	10" &10"	NONE	DOUBLE WYTHE 10" CMU W/GROUT INFILL, TO DECK		

05 PARTITION TYPE A-[SOUND WALL TO DECK]
1" = 1'-0"
SOUND PARTITION

TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION
M6.P	6"	NONE	6" CMU PARTIAL HEIGHT
M8.P	8"	NONE	8" CMU PARTIAL HEIGHT
M10.P	10"	NONE	10" CMU PARTIAL HEIGHT
M12.P	12"	NONE	12" CMU PARTIAL HEIGHT

04 PARTITION TYPE M-.P [PARTIAL HEIGHT]
1" = 1'-0"

TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
M6.F	5 5/8"	*	6" CMU W/ GYP BD ON 7/8" FURRING	48	*
M6.F1	5 5/8"	*	6" CMU W/ GYP BD ON 1 1/2" FURRING	49	*
M8.F	7 5/8"	*	8" CMU W/ GYP BD ON 7/8" FURRING	51	*
M8.F1	7 5/8"	*	8" CMU W/ GYP BD ON 1 1/2" FURRING	52	*

* REFER TO G-100 SERIES FOR FIRE RATING REQUIREMENTS
** REFER TO G-030 FOR FIRE RATED ASSEMBLIES

03 PARTITION TYPE M-.F [TO DECK W FURRING]
1" = 1'-0"

TYPE	STUD SIZE	FIRE RAT'G	DESCRIPTION	STC	UL
M6	5 5/8"	*	6" CMU TO DECK	47	**
M8	7 5/8"	*	8" CMU TO DECK	50	**
M12	11 5/8"	*	12" CMU TO DECK	55	**

* REFER TO G-100 SERIES FOR FIRE RATING REQUIREMENTS
** REFER TO G-030 FOR FIRE RATED ASSEMBLIES

02 PARTITION TYPE M- [TO DECK]
1" = 1'-0"

TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC
M4.C	3 5/8"	NONE	4" CMU ABOVE CEILING	-
M6.C	5 5/8"	NONE	6" CMU ABOVE CEILING	-
M8.C	7 5/8"	NONE	8" CMU ABOVE CEILING	-
M12.C	11 5/8"	NONE	12" CMU ABOVE CEILING	-

01 PARTITION TYPE M-.C [ABOVE CEILING]
1" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539
DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

PARTITION TYPES

A-801B

DOOR SCHEDULE LEVEL 1

A-810

FOR BLUEBEAM LABELING/DOOR:

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR
10. PANIC DEVICE
11. REFER TO STOREFRONT OR CURTAIN WALL ELEVATIONS

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

12. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
13. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
14. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
15. MANUAL OPERATION
16. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
17. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
18. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
19. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
20. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

DOOR SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	REMARKS
LEVEL 1												
ATHLETICS												
1500A	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1500B	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1500C	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1500D	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
1500E	GYM LOBBY	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10
1500F	GYM LOBBY	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10
1501	WOMEN'S RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1502	GYM STORAGE	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1503	GYM LOBBY	3'-0"	6'-10"	F	WS	PLAM - Black	001	ALUM	CLR ANO			
1504	TICKET BOOTH	3'-0"	6'-10"	F	WS	PLAM - Black	001	ALUM	CLR ANO			2
1504.1	TICKET BOOTH STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1505	CONCESSIONS	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
1505A	CONCESSION STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1505B	GYM LOBBY	6'-0"	4'-2"	OHCS	ALUM	CLR ANO	00CF	ALUM	CLR ANO			
1506	MEN'S RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1507	STAIR 01	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10
1507A	STAIR 02	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10
1510	OFFICIAL FLEX OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1511	STAIR 01	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1511.1	VISITOR / FLEX ROOM	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1512	ELECTRICAL	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1513	VOLLEYBALL/BASKETBALL STORAGE	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1515	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1515B	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1515C	MAIN WEIGHT ROOM	8'-0"	8'-0"	OHCS	ALUM	CLR ANO	00CF	ALUM	CLR ANO			
1516	BOYS RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1517	GIRLS RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1518	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1519	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1520	TRAINERS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1520.1	CART STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1520.1A	CART STORAGE	8'-0"	10'-0"	OHCS	ALUM	DB ANO	00CF	ALUM	DB ANO			
1521	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1522	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1523	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1524	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1524.1	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			2
1524.2	FLEX OFF.	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1525	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1526	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1527	CUSTODIAL	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1528	HEAD COACH GIRLS SPORTS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1529	GIRLS SPORTS COACHES OFFICE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1529.2	COACHES RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1529A	GIRLS SPORTS COACHES OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1530	GIRLS PE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1531	GIRLS BASKETBALL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1531.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1533	TRACK / CROSS COUNTRY	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1533.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1534	GIRLS VOLLEYBALL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1534.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1535	CHEERLEADING	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1535.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1536		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
1536A	STAIR 04	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1537	GIRLS GOLF	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1538	GIRLS SOCCER	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1538.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1539	HEAD COACH BOYS SPORTS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1540	BOYS PE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1541	BOYS SPORTS COACHES OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1541.1	COACHES RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1541A	BOYS SPORTS COACHES OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			
1543	BOYS LAUNDRY	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1544	PUMP ROOM	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1545	IDF	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			2
1546	BOYS BASKETBALL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1546.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1547	BOYS GOLF STOR.	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1548	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1549	BOYS GOLF & CROSS COUNTRY	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1550		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
1550.1	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1550A	STAIR 03	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1508.1	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508.2	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508.3	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508.4	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508A	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1508C	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1508D	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
ATHLETICS: 83												
ACADEMICS												
1100		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1100A		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1100B		0"	0"		ALUM	DB ANO		ALUM	DB ANO			Vertically Folding Glass Door
1100C	MP SPACE	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1100D	MP SPACE	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1101A	STAIR 09	5'-11 3/4"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1102	RESOURCE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1103	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1104	BEHAVIOR ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1104.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1105	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1106	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
1107	MOCK LIVING	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1107.1	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1107.2	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1108	BEHAVIOR ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1108.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1109	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1110	STAFF RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1111	18+ STUDENTS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1112	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1113	COLLAB. FLEX ROOM	6'-0"	6'-10"	FG-1	CLR ANO	ALUM	NONE	-	-			
1113A	MP SPACE	6'-0"	6'-10"	FG-1	CLR ANO	ALUM	NONE					
1114	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1114.1	LIFE SKILLS	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1114.1A	MOCK LIVING	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1115	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1116	LIFE SKILLS	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1116.1	STORAGE	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1116.1A	LIFE SKILLS	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1117	CORRIDOR	6'-0"	6'-10"	F	HM	PL-1	001	HM	PT-2			
1118		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1119	RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1120	DIAG.	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1121	COORDINATOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1122	SPEECH	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1123	ARD CONFERENCE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1123.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1124	LSSP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1125	CLERK	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1127	SCHOOL BOOK ROOM	3'-0"	6'-10"	F	WS	PL-1	001	HM	CLR ANO			
1128	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1129	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
1131	MAIN STREET	6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1131.1	MAIN STREET	6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1131.3	MAIN STREET	6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1131.3A	TEMP BAND	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1132	TESTING OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1132.1	TESTING OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1133	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1133A	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1134A	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1135	VESTIBULE	16'-0"	7'-5 3/4"	SL-BA -	CLR ANO	CLR ANO		-				
1136A	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1137	TECHNICAL STORAGE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1138	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	CLR ANO	CLR ANO			2
1139	AP OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1140	ENGLISH 13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1141	ENGLISH #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1142	BREAKROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1142.1	BREAKROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1143	ENGLISH #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1145	ENGLISH #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1146	ENGLISH #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1147	ENGLISH #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1148	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1149	ENGLISH #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1150A	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	CLR ANO	NONE	-	-			
1150B	COLLAB. FLEX ROOM	6'-0"	6'-10"	FG-1	ALUM	CLR ANO	NONE	-	-			
1151	ENGLISH #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1152	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1153	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1154	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1155	ENGLISH #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1156	ENGLISH #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1157	ENGLISH #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1158	ENGLISH #8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1158.1	ENGLISH #8	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1159	ENGLISH #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
1160	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1161A		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1162	ENGLISH #8	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
C1100.1	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1100.2		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1100A	MAIN STREET	6'-0"	6'-10"	HGL	ALUM	CLR ANO	001	ALUM	CLR ANO			
C1103	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
ACADEMICS: 86												
3116.5	MAIN STREET	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1000N		8'-0"	7'-0"	FG-1	ALUM	DB ANO	NONE	-	-			1, 10, 11
: 2												
LEVEL 1: 171												
LEVEL 2												
ATHLETICS												
2503	CUSTODIAL	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2505	STAIR 10	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2506	TEAM LOUNGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2507	MEN'S RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2508	WOMEN'S RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2510	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2510.1	P.E. STORAGE	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			

HORIZONTAL SLIDING FIRE DOOR & FIRE CURTAIN SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	REMARKS
LEVEL 1												
ACADEMICS												
FS1	MAIN STREET	17'-0"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	<By Category>	2-HR		
FS2	MAIN STREET	15'-6"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS3	MAIN STREET	23'-5"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS4	MAIN STREET	10'-7"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS5	MAIN STREET	25'-11"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS6	MAIN STREET	27'-2"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS7	MAIN STREET	27'-2"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS8	MAIN STREET	32'-11"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS9	MAIN STREET	26'-11"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS10	MAIN STREET	31'-4"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS11	MAIN STREET	31'-2"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS12	MAIN STREET	12'-0"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS13	MAIN STREET	12'-5"	10'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS14	MAIN STREET	16'-0"	10'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FSD1	CORRIDOR	12'-9"	10'-0"									
FSD2	STAIR 07	11'-0"	10'-0"									
FSD3	MAIN STREET	15'-4"	10'-0"									
FSD4	MAIN STREET	8'-4"	10'-0"									
FSD5	STAIR 06	11'-0"	10'-0"									
FSD6	STAIR 05	12'-9"	10'-0"									
ACADEMICS: 20												
FS24		3'-0"	6'-10"		ALUM	DB ANO						
FS25		3'-0"	6'-10"		ALUM	DB ANO						
FS26		8'-0"	10'-0"		ALUM	DB ANO						
FS27		3'-0"	6'-10"		ALUM	DB ANO						
FS28		3'-0"	6'-10"		ALUM	DB ANO						
FS30		8'-0"	10'-0"						<By Category>	<By Category>		
: 6												
LEVEL 1: 26												
LEVEL 2												
ACADEMICS												
FS22		16'-0"	10'-0"	OHRG	WS	<By Category>	00CF	HM	<By Category>	2-HR		
FSD7	STAIR 09	12'-9"	10'-0"									
FSD8	STAIR 07	13'-1"	10'-0"									
FSD9		15'-4"	10'-0"									
FSD10		12'-6"	10'-0"									
FSD11	STAIR 06	11'-0"	10'-0"									
FSD12	STAIR 05	12'-9"	10'-0"									
ACADEMICS: 7												
FSD13	CORRIDOR	9'-0"	10'-0"									
FSD.2	SKYBRIDGE	15'-7 3/4"	17'-2"						HM	<By Category>		
: 2												
LEVEL 2: 9												
LEVEL 3												
ACADEMICS												
FSD14	STAIR 09	12'-9"	10'-0"									
FSD15	STAIR 07	11'-0"	10'-0"									
FSD16	STAIR 06	10'-2"	10'-0"									
FSD17	STAIRS 05	12'-9"	10'-0"									
ACADEMICS: 4												
LEVEL 3: 4												
Grand total: 39												

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HOUSTON, TX
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TX FIRM: BR 1608

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

REGISTERED ARCHITECT — JOHN LEPICOVSKY — 25572 — STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

DOOR SCHEDULE LEVEL 1

A-810

Plot Stamp:
12/5/2025 3:10:45 PM

DOOR SCHEDULE LEVEL 2 AND 3
A-811
FOR BLUEBEAM LABELING/DOOR:

0"
1"

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR
10. PANIC DEVICE
11. REFER TO STOREFRONT OR CURTAIN WALL ELEVATIONS

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

12. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
13. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
14. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
15. MANUAL OPERATION
16. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
17. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
18. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
19. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
20. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

DOOR SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	REMARKS
2510.2	AUXILIARY GYM A	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2510A	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2511	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.1	AUXILIARY GYM B	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.2	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.2B	AUXILIARY GYM B	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.3	STAIRS 03	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2513	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2513	STAIRS 04	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2513A	AUXILIARY GYM B	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2513A	STAIRS 04	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
C2501	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
ATHLETICS: 19												
ACADEMICS												
2102	SPECIALIST	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2103	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2104	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			2
2105	MATH CLASS #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2105.1	STORAGE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2106	MATH CLASS #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2107	MATH CLASS #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2108	MATH CLASS #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2109	GIRLS RR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2110	STAFF RR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2111	BOYS RR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2112	MATH CLASS #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2114	MATH CLASS #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2115	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2116	MATH CLASS #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	HM	CLR ANO			
2118	CORRIDOR	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2119	MATH CLASS #8	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2121	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2121A	COMPUTER LAB	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2122	MATH CLASS #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2123	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2124	MECH.	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2125	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
2126	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2127	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2128	WORK RM / PLC	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2129	MATH CLASS #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2130	MATH CLASS #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2131	MATH CLASS #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2132	MATH CLASS #13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2133	SOCIAL STUDIES #13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2134	SOCIAL STUDIES #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2135	AP SUITE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2135A	AP OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2136	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2137		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
2138	SRO	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2139	SOCIAL STUDIES #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2140	SOCIAL STUDIES #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2142	SOCIAL STUDIES #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2143	SOCIAL STUDIES #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2144	SOCIAL STUDIES #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2145		6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2146	SOCIAL STUDIES #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2148	SOCIAL STUDIES #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2149	BOYS RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2150	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2151	GIRLS RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2152	SOCIAL STUDIES #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2153	SOCIAL STUDIES #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2154	SOCIAL STUDIES 8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2155	SOCIAL STUDIES #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2155.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2156	SPECIALIST	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
2158		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2159		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
C2100.3	CORRIDOR	6'-0"	6'-10"	HGL	ALUM	PL-1	001	ALUM	CLR ANO			10
C2100.3A		6'-0"	6'-10"	HGL	ALUM	CLR ANO	001	ALUM	CLR ANO			10
ACADEMICS: 58												
LEVEL 2: 77												
LEVEL 3												
ATHLETICS												
3503	MECH.	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
ATHLETICS: 1												
ACADEMICS												
3102	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3102A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3102B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3103	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3103B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3104	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3104A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3105	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3106	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3107	ASTRONOMY CLASS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3107A	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3108	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3108A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3108B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3109	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	HM	PT-2			
3110	STAFF RR	3'-0"	6'-10"	F	WS	PL-1	001	HM	PT-2			
3111	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	HM	PT-2			
3112	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3112A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3113	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3115	SRO	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3116	SPANISH 1	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3116.1	SPANISH 1	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3117	CUSTODIAL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3119	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3119.1	SHARED PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3119.1A	SHARED PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3119A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3120	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3120.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3121	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3122	SPANISH 2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3123	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
3124	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3125	SPANISH 3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3126	SPANISH 4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3127	SPANISH 5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3128	SPANISH 6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			

DOOR SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	REMARKS
3129	SPANISH 7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3130	CORRIDOR	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3131	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	WS	CLR ANO			2
3132	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3132A		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3132B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3133	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3134	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	WS	CLR ANO			
3135		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3135A		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3135B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3137	FRENCH	3'-0"	6'-10"	F	WS	PL-1	001	WS	CLR ANO			
3138	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	WS	CLR ANO			
3139	MECH.	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3140		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3140A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3140B		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3141		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3141A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3141B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3142	BOYS RESTROOM	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3143	RESTROOM	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3144	GIRLS RESTROOM	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3145	IPC	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3145A	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3146		3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3147		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3147.1	STORAGE	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3147A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3147B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3148		3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3149		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3149A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3150	STORAGE	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3150B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3700A	COLLAB. FLEX ROOM	6'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO	NONE	-	-			
3700B	COLLAB. FLEX ROOM	6'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO	NONE	-	-			
C3700		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			EXTERIOR
ACADEMICS: 76												
LEVEL 3: 77												
MEZZ / BOD												
4000A		4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
4000B		4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
: 2												
MEZZ / BOD: 2												
Grand total: 327												

PBK

HOUSTON, TX
713-865-6000
TX FIRM: BR 1608
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN

NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

DOOR SCHEDULE LEVEL 2 AND 3

A-811

Plot Stamp:
12/5/2025 3:10:52 PM

0"
1"

DOORS - PANEL & FRAME TYPES
A-812
FOR BLUEBEAM LABELING/DOOR:

MATERIALS & FINISHES

ALUM - ALUMINUM
HM - HOLLOW METAL
SS - STAINLESS STEEL
PL# - PLASTIC LAMINATE
WS - WOOD, SOLID CORE
PT# - PAINTED TYPE
CLR ANO - CLEAR ANODIZED
DB ANO - DARK BRONZE ANODIZED

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 3
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

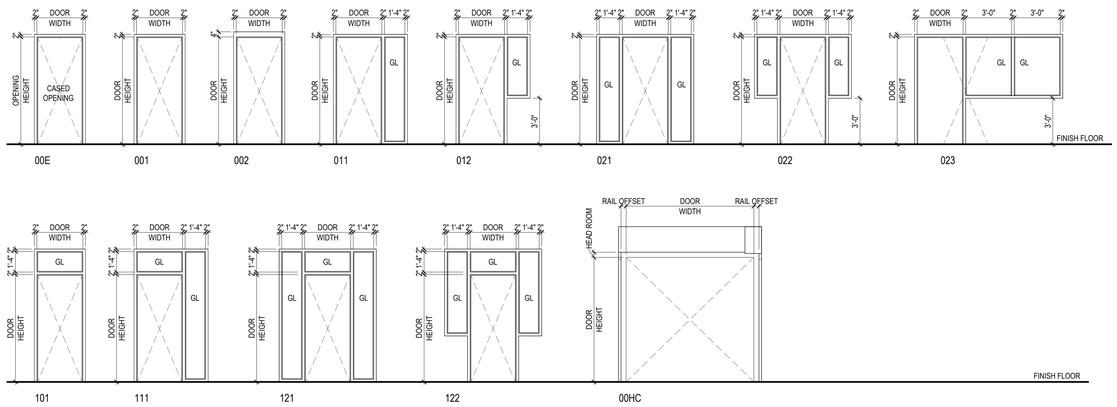
DOOR DETAIL LEGEND

EXTERIOR ALUMINUM FRAMES

SILL @ MASONRY W/ CFMF BACKUP:	- / ---
SILL @ MASONRY W/ CMU BACKUP:	02 / A-851
JAMB @ MASONRY W/ CFMF BACKUP:	- / ---
JAMB @ MASONRY W/ CMU BACKUP:	08 / A-851
HEAD @ MASONRY W/ CFMF BACKUP:	- / ---
HEAD @ MASONRY W/ CMU BACKUP:	14 / A-851

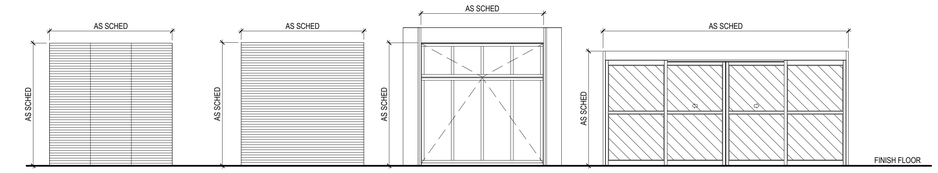
EXTERIOR HOLLOW METAL FRAMES

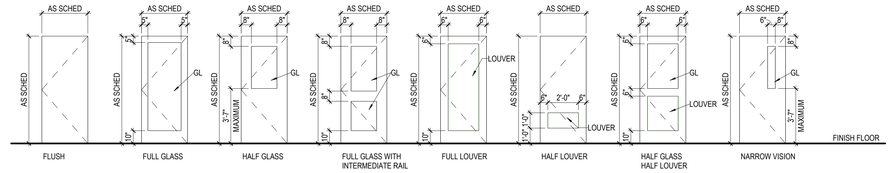
SILL @ MASONRY W/ CFMF BACKUP:	- / ---
SILL @ MASONRY W/ CMU BACKUP:	01 / A-851
JAMB @ MASONRY W/ CFMF BACKUP:	- / ---
JAMB @ MASONRY W/ CMU BACKUP:	07 / A-851
HEAD @ MASONRY W/ CFMF BACKUP:	- / ---
HEAD @ MASONRY W/ CMU BACKUP:	13 / A-851



02 DOOR FRAME CONFIGURATIONS

1. EXTERIOR GLAZING SHALL BE GI1, U.N.O.
2. INTERIOR GLAZING SHALL BE GT1, U.N.O.





01 DOOR PANEL TYPES

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

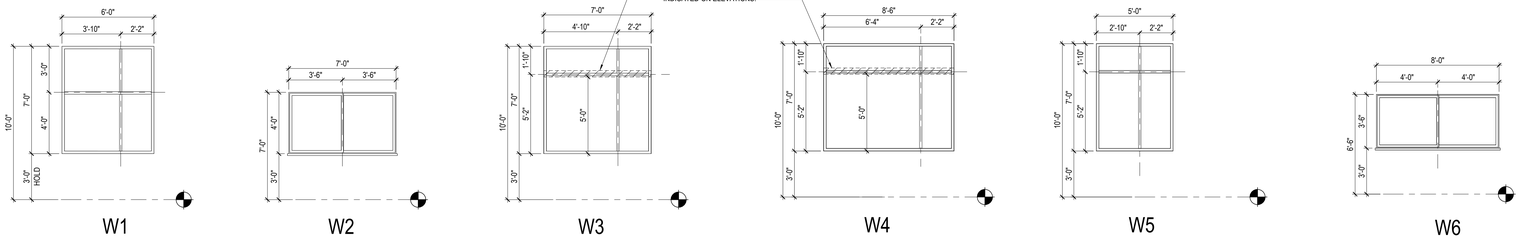
DOORS - PANEL & FRAME TYPES

A-812

Plot Stamp:
12/5/2025 3:10:55 PM

WINDOW AND STOREFRONT ELEVATIONS
A-821
FOR BLUEBEAM LABELING/DOOR:

0"
1"



FOR GLAZING TYPE, REF. ELEVATIONS AND SECTIONS

02 WINDOW FRAME ELEVATIONS
1/4" = 1'-0"

GENERAL GLAZING NOTES

1. PROVIDE BACK PAINTED SPANDREL GLAZING AT ALL EXTERIOR AND INTERIOR GLAZING PANELS ABOVE INTERIOR CEILINGS. COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

GENERAL WINDOW, CURTAIN WALL, & STOREFRONT ELEVATION NOTES

1. REFER TO FRAME DETAIL LEGEND FOR FRAME DETAILS, TYPICAL FOR ALL STOREFRONT, WINDOW, AND CURTAIN WALL FRAMES

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 3
COLOR: AS SELECTED BY ARCHITECT

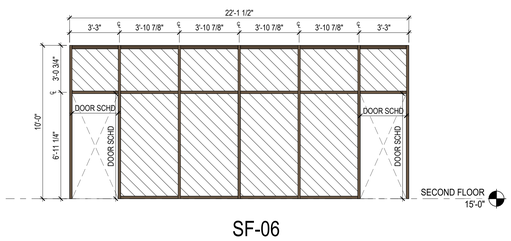
GG2
1" CLEAR INSULATED VISION GLASS

STOREFRONT FRAME LEGEND

STOREFRONT FRAMES

SILL IN EXTERIOR KING BRICK CFMF WALL: 05 / A-715
JAMB IN EXTERIOR KING BRICK CFMF WALL: 02 / A-726
HEAD IN EXTERIOR KING BRICK CFMF WALL: 10 / A-726

GUIDANCE NOTE: (DELETE BEFORE PRINTING)
BRING STOREFRONT HEAD, JAMB, SILL DETAILS FROM PBK DETAIL LIBRARY AND UPDATE THE VIEW REFERENCES ON THIS LEGEND.



01 STOREFRONT FRAME ELEVATIONS
1/4" - 1'-0"

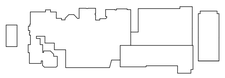
PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-6808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

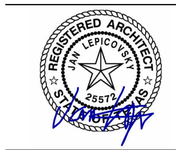
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN / TRUE



CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

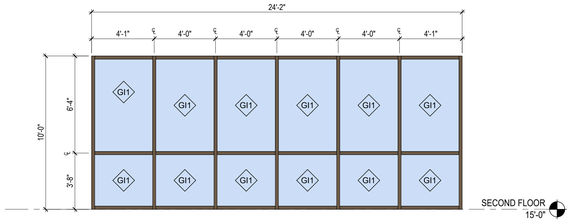
WINDOW AND STOREFRONT ELEVATIONS

A-821

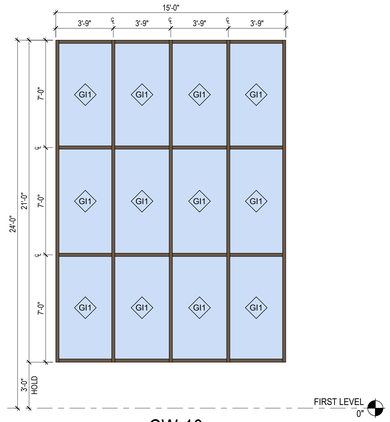
Plot Stamp:
12/5/2025 3:11:00 PM

CURTAIN WALL ELEVATIONS
A-841
FOR BLUEBEAM LABELING/DOOR:

0"
1"



CW-13



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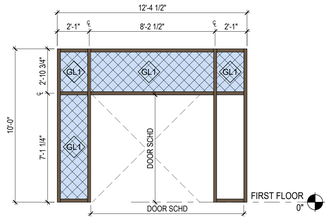

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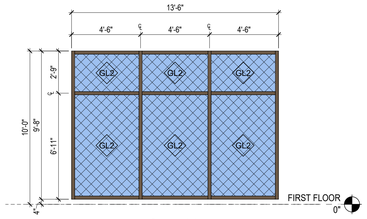

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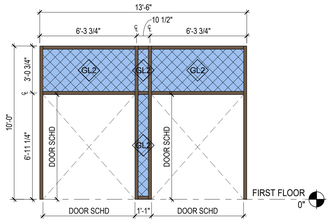

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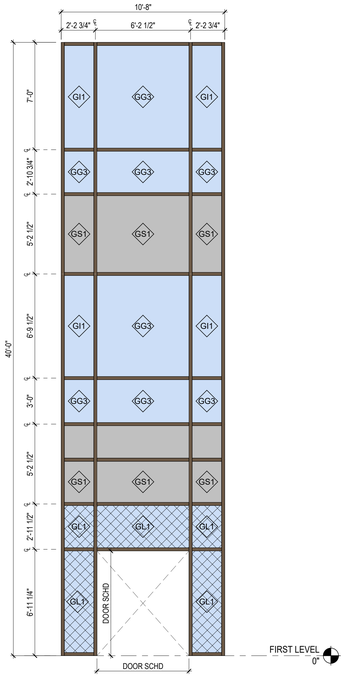

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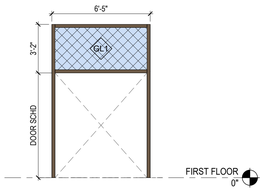
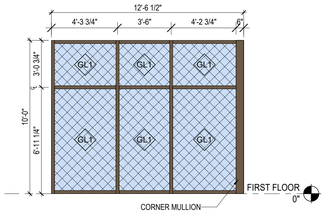


CW-05



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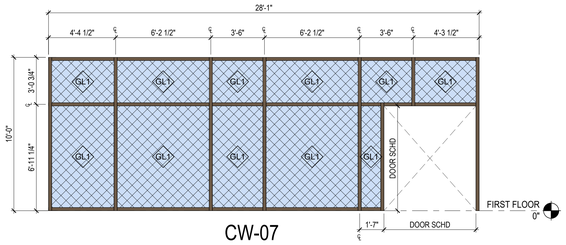

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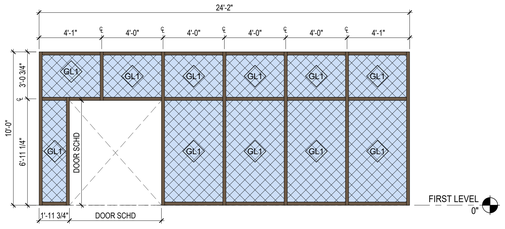
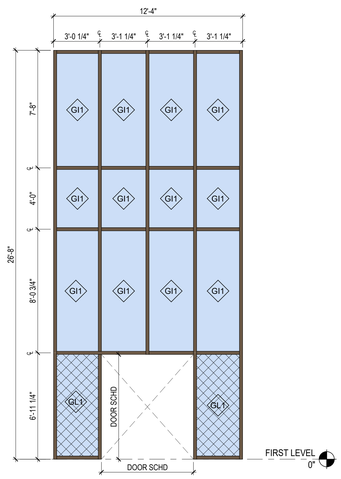
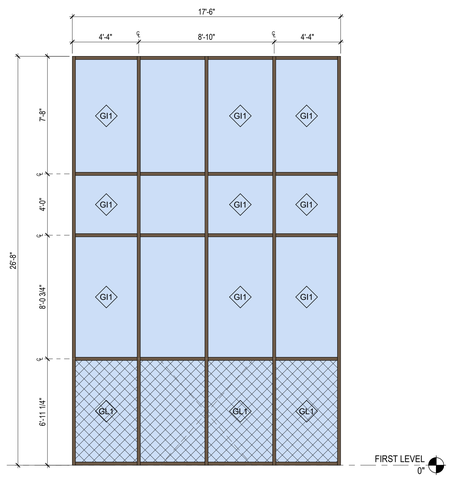


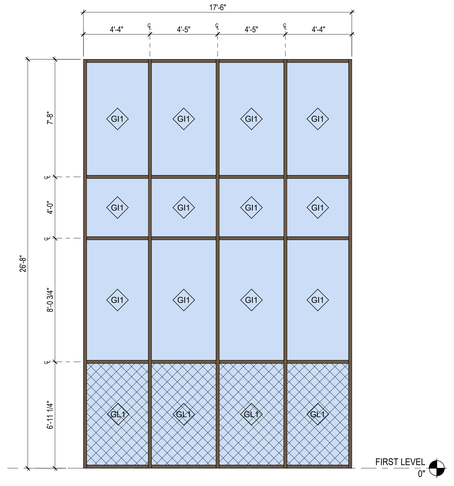
CW-04



CW-03



CW-02



CW-01

GENERAL GLAZING NOTES

1. PROVIDE BACK PAINTED SPANDREL GLAZING AT ALL EXTERIOR AND INTERIOR GLAZING PANELS ABOVE INTERIOR CEILINGS. COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

GENERAL WINDOW, CURTAIN WALL, & STOREFRONT ELEVATION NOTES

1. REFER TO FRAME DETAIL LEGEND FOR FRAME DETAILS, TYPICAL FOR ALL STOREFRONT, WINDOW, AND CURTAIN WALL FRAMES

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 3
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

CURTAIN WALL FRAME LEGEND

CURTAIN WALL FRAMES
SILL IN EXTERIOR KING BRICK CFMF WALL: 02 / A-722
JAMB IN EXTERIOR KING BRICK CFMF WALL: 02 / A-722
HEAD IN EXTERIOR KING BRICK CFMF WALL: 05 / A-722

GUIDANCE NOTE: (DELETE BEFORE PRINTING)
BRING CURTAIN WALL HEAD, JAMB, SILL DETAILS FROM PBK DETAIL LIBRARY AND UPDATE THE VIEW REFERENCES ON THIS LEGEND.

01 CURTAIN WALL FRAME ELEVATIUONS
1/4" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL 12/5/2025

KEY PLAN
NORTH: PLAN ≈ TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

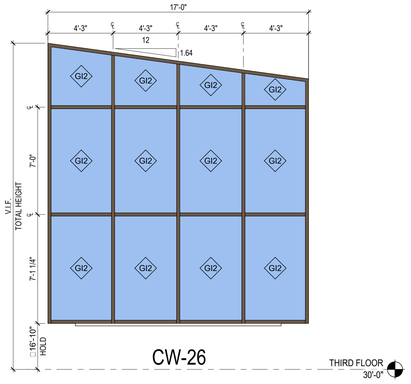
CURTAIN WALL ELEVATIONS

A-841

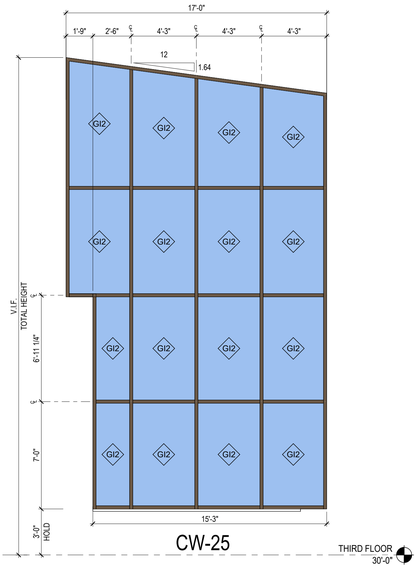
Plot Stamp:
12/5/2025 3:11:09 PM

CURTAIN WALL ELEVATIONS
A-842
FOR BLUEBEAM LABELING/DOOR:

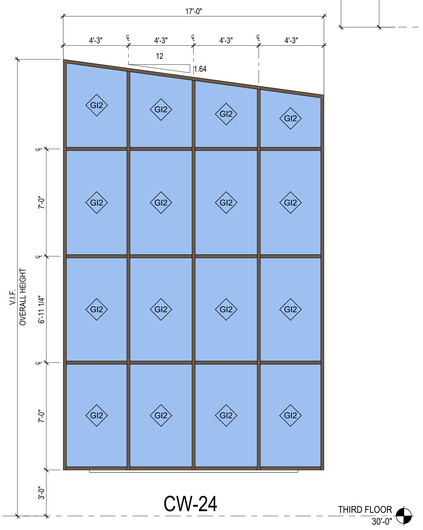
0"
1"



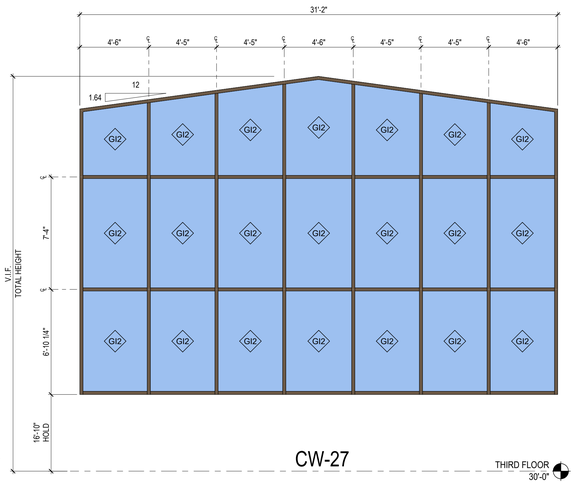
CW-26 THIRD FLOOR 30'-0"



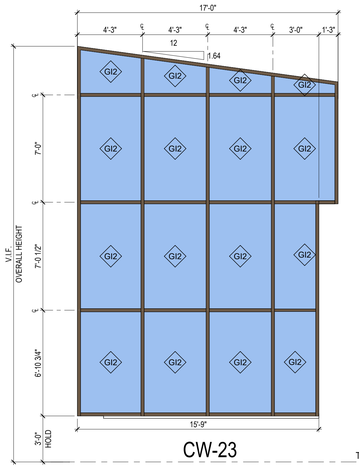
CW-25 THIRD FLOOR 30'-0"



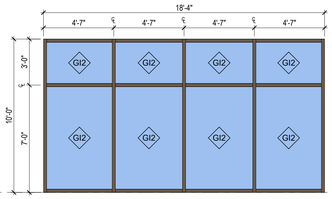
CW-24 THIRD FLOOR 30'-0"



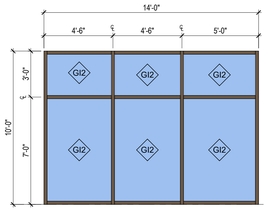
CW-27 THIRD FLOOR 30'-0"



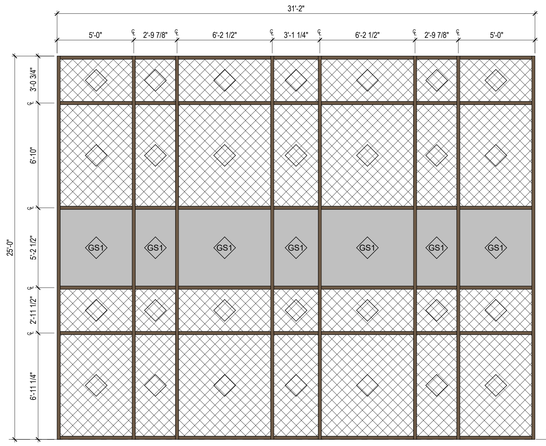
CW-23 THIRD LEVEL 30'-0"



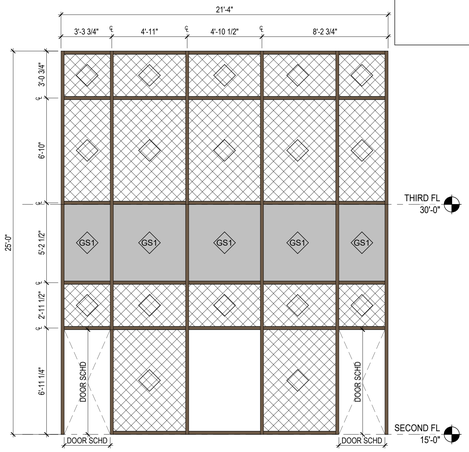
CW-22 SECOND LEVEL 15'-0"



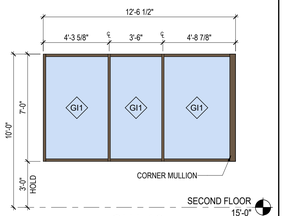
CW-21 SECOND FLOOR 15'-0"



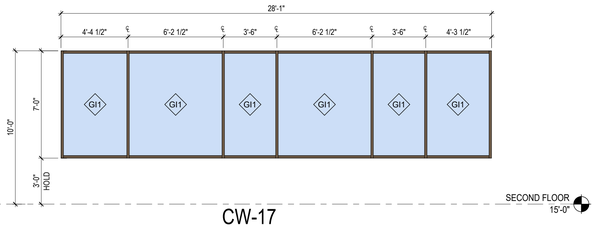
CW-20 SECOND FLOOR 15'-0"



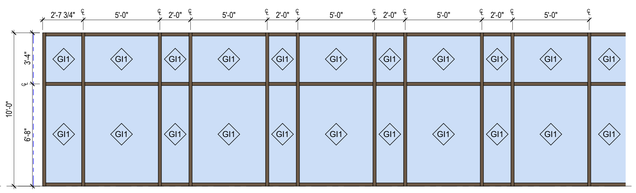
SECOND FL 15'-0"



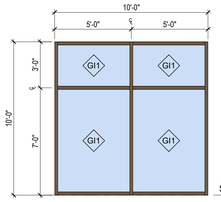
CW-18 SECOND FLOOR 15'-0"



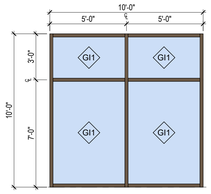
CW-17 SECOND FLOOR 15'-0"



CW-16 SECOND FLOOR 15'-0"



CW-15 SECOND FLOOR 15'-0"



CW-14 SECOND FLOOR 15'-0"

GENERAL GLAZING NOTES

1. PROVIDE BACK PAINTED SPANDREL GLAZING AT ALL EXTERIOR AND INTERIOR GLAZING PANELS ABOVE INTERIOR CEILINGS. COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

GENERAL WINDOW, CURTAIN WALL, & STOREFRONT ELEVATION NOTES

1. REFER TO FRAME DETAIL LEGEND FOR FRAME DETAILS, TYPICAL FOR ALL STOREFRONT, WINDOW, AND CURTAIN WALL FRAMES

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 3
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

CURTAIN WALL FRAME LEGEND

CURTAIN WALL FRAMES

SILL IN EXTERIOR KING BRICK CFMF WALL: 02 / A-722
JAMB IN EXTERIOR KING BRICK CFMF WALL: 02 / A-722
HEAD IN EXTERIOR KING BRICK CFMF WALL: 05 / A-722

GUIDANCE NOTE: (DELETE BEFORE PRINTING)
BRING CURTAIN WALL HEAD, JAMB, SILL DETAILS FROM PBK DETAIL LIBRARY AND UPDATE THE VIEW REFERENCES ON THIS LEGEND.

01 CURTAIN WALL FRAME ELEVATIONS
1/4" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JUAN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

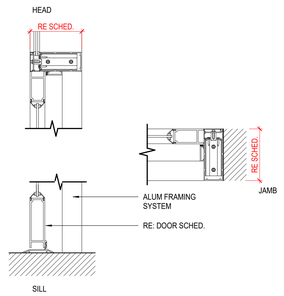
CURTAIN WALL ELEVATIONS

A-842

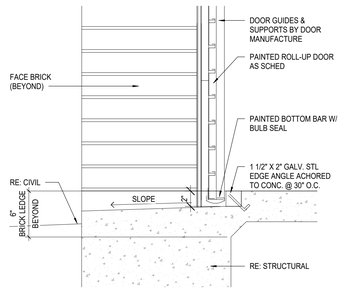
Plot Stamp:
12/5/2025 3:11:20 PM

DOOR DETAILS
A-851
FOR BLUEBEAM LABELING/DOOR:

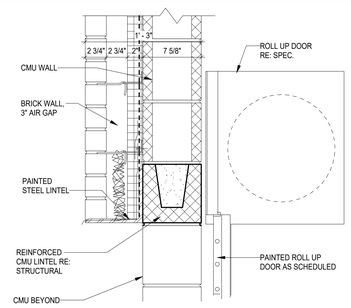
0"
1"



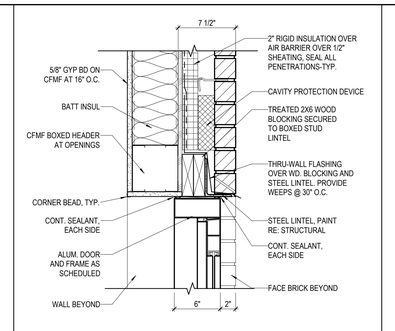
23 ALUM. DOOR SYSTEM SILL JAMB HEAD
1 1/2" = 1'-0"



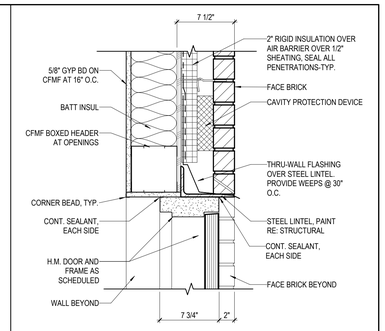
22 OVERHEAD ROLLING TRESHOLD
1 1/2" = 1'-0"



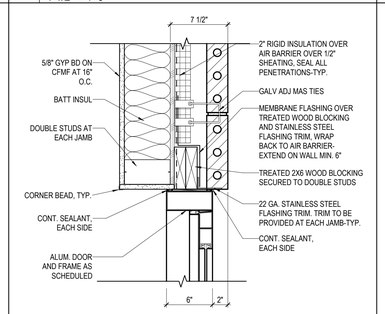
21 EXT. O.H. ROLLING DOOR HEAD
1 1/2" = 1'-0"



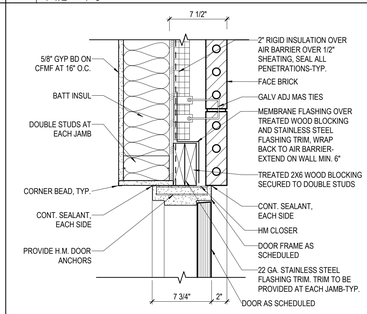
25 ALUM DOOR HEAD @ BRICK ON MTL STUD
1 1/2" = 1'-0"



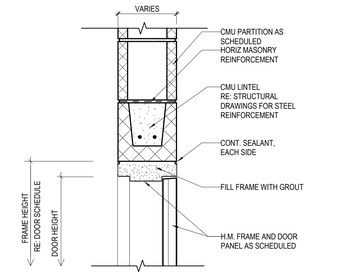
24 HM DOOR HEAD @ BRICK ON MTL STUD
1 1/2" = 1'-0"



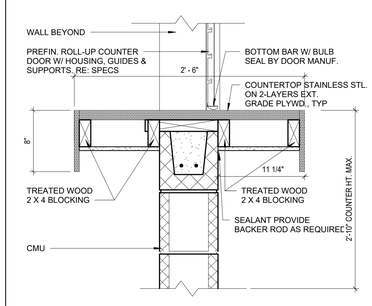
20 ALUM DOOR JAMB @ BRICK ON MTL STUD
1 1/2" = 1'-0"



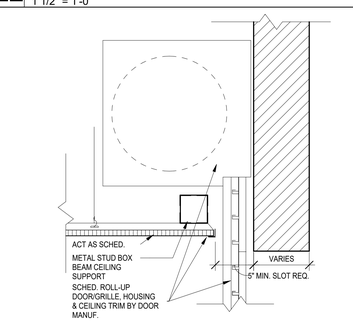
19 HM DOOR JAMB @ BRICK ON MTL STUD
1 1/2" = 1'-0"



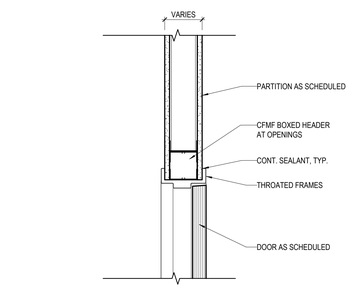
18 HM DOOR HEAD @ CMU (INTERIOR)
1 1/2" = 1'-0"



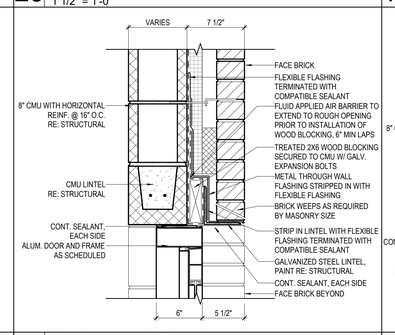
17 INT O.H. ROLLING COUNTER DOOR SILL
1 1/2" = 1'-0"



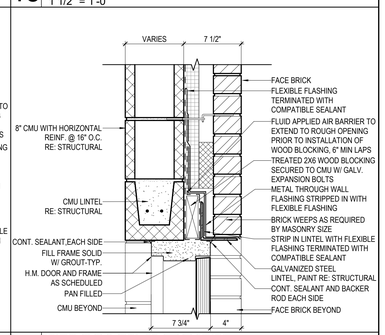
16 INT O.H. ROLLING GRILL HEAD DETAIL ACT
1 1/2" = 1'-0"



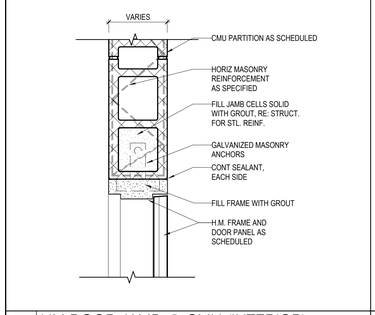
15 ALUM/HM DOOR HEAD @CFMF (INTERIOR)
1 1/2" = 1'-0"



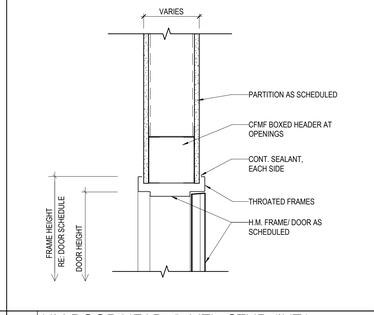
14 ALUM DOOR HEAD @CMU
1 1/2" = 1'-0"



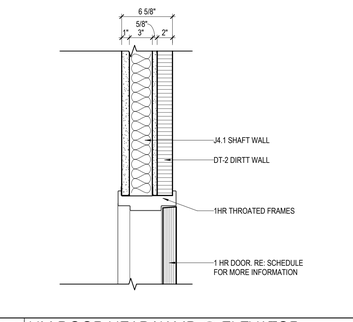
13 HM DOOR HEAD @CMU
1 1/2" = 1'-0"



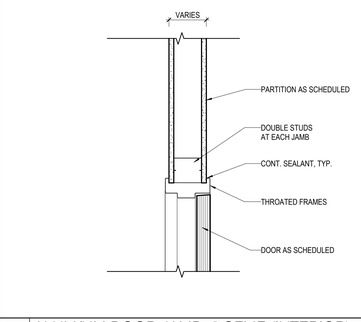
12 HM DOOR JAMB @ CMU (INTERIOR)
1 1/2" = 1'-0"



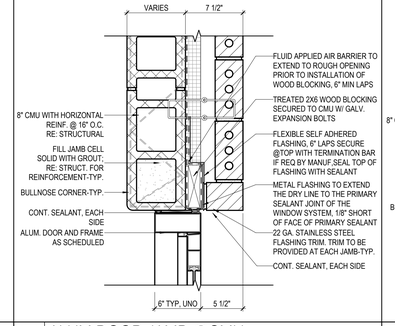
11 HM DOOR HEAD @ MTL. STUD (INT.)
1 1/2" = 1'-0"



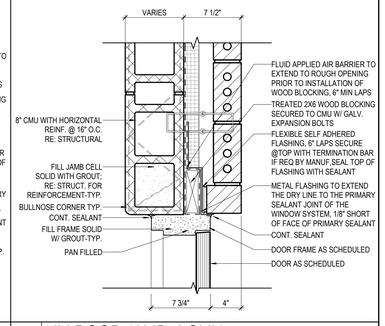
10 HM DOOR HEAD/JAMB @ ELEVATOR
1 1/2" = 1'-0"



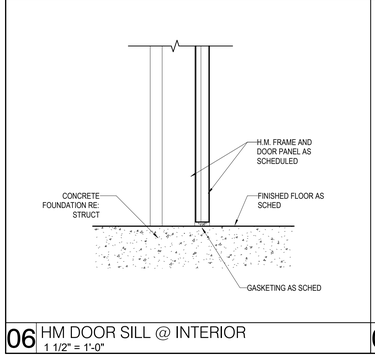
09 ALUM/HM DOOR JAMB @CFMF (INTERIOR)
1 1/2" = 1'-0"



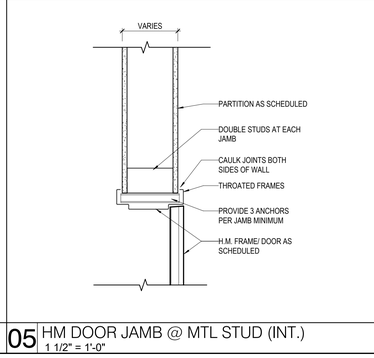
08 ALUM DOOR JAMB @CMU
1 1/2" = 1'-0"



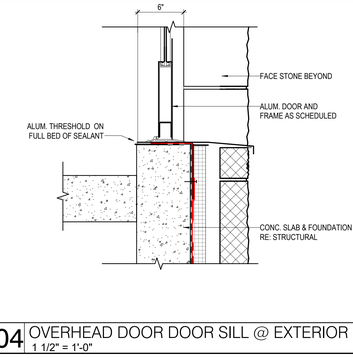
07 HM DOOR JAMB @CMU
1 1/2" = 1'-0"



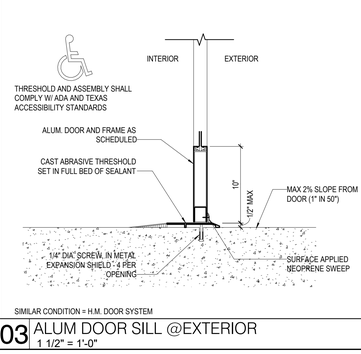
06 HM DOOR SILL @ INTERIOR
1 1/2" = 1'-0"



05 HM DOOR JAMB @ MTL STUD (INT.)
1 1/2" = 1'-0"

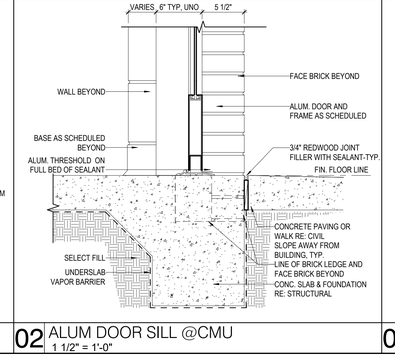


04 OVERHEAD DOOR DOOR SILL @ EXTERIOR
1 1/2" = 1'-0"

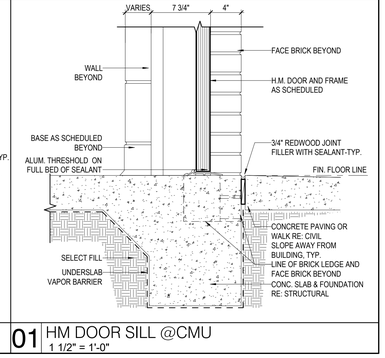


SIMILAR CONDITION = H.M. DOOR SYSTEM

03 ALUM DOOR SILL @EXTERIOR
1 1/2" = 1'-0"



02 ALUM DOOR SILL @CMU
1 1/2" = 1'-0"



01 HM DOOR SILL @CMU
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

DOOR DETAILS

A-851

FINISH SCHEDULE
A-900
FOR BLUEBEAM LABELING/DOOR:

0"
1"

2405398 GALENA PARK PHASE 3B - INTERIOR SCHEDULE OF FINISHES

ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	LOCATION	NOTES
CONCRETE FINISHING						
03 35 00.SC1		SEALED CONCRETE			REF TO FINISH FLOOR PLAN	SEALED CONCRETE
STONE						
04 20 00.CV1	BEST BLOCK	BURNISH BLOCK	COLOR: TBD		GYM LOBBY	
STAIR SYSTEM						
05 73 00.DR1	VIVA RAILING	POST SUPPORTED METAL RAILING SYSTEM	Viva Railing: Guardrail Posts with fascia (side-mounted) rail. Material: 2-inch OD stainless steel tube, Type 304. Height: 42 inches. Spacing: 5'-0" on center maximum. Handrails: 1-1/2-inch OD stainless steel tube, Type 304. Finish: Stainless Steel Handrails and Posts: Circular #4 satin.			
05 52 00.IPM	VIVA RAILING	PERFORATED INFILL PANEL	Perforated Metal: Type: Stainless steel, Satin #6. Thickness: 1/8 inch. Style: Viva Railings' PMSL-0325			
TRIMS / TRANSITIONS / NOSINGS						
05 75 00.DT1	SCHLUTER	JOLLY	AT, SATIN NICKEL ANODIZED ALUMINUM		TILE EDGES	
05 75 00.DT2	SCHLUTER	SCHIENE	GS, BLACK, RAL 9011		TILE TO TILE TRANSITION FOR TILE 09 30 00.T4	
05 75 00. DT3	SCHLUTER	QUADEC	AT, SATIN NICKEL ANODIZED ALUMINUM		EDGES AT TILE	
05 75 00.MT1	SCHLUTER	RENO-RAMP	AE, SATIN ANODIZED ALUMINUM		RAMP TRANSITION	
05 75 00.MT2	SCHLUTER	RENO-T	AT, SATIN NICKEL ANODIZED ALUMINUM		SAME HEIGHT TRANSITION	
05 75 00.MT3	SCHLUTER	RENO-TK	AT, SATIN NICKEL ANODIZED ALUMINUM		TILE TO CARPET	
05 75 00.MT4	SCHLUTER	DILEX-AHK	AT, SATIN NICKEL ANODIZED ALUMINUM		TILED FLOOR TO WALL COVE	WALL TILE TO FLOOR TILE
05 75 00.MT5	SCHLUTER	VINPRO-S	AT, SATIN NICKEL ANODIZED ALUMINUM		RESILIENT FLOORING EDGE	
PLASTIC LAMINATE						
06 20 00.PL1	FORMICA		5883-58, PECAN WOOD LINE	MATTE FINISH	DOORS., CASEWORK	
06 20 00.PL2	NEVAMAR		S-4022 SUNRAY	TEXTUREED	PORTAL AT GYM LOBBY AND MAKERSPACE	
06 20 00.PL3	FORMICA	DECO METAL	M4254-99 BRUSHED BLACK ALUMINUM	METAL FINISH	WALLS AND DOORS AT GYM LOBBY	
12 36 00.PLC	FORMICA		5882-58 CITADEL WARP	MATTE TEXTURE	COUNTERTOPS WHERE APPLICABLE	
12 36 00.PLC2	WILSONART	CHEMSURF FINISH			COUNTERTOPS AT SCIENCE LABS	
TILE						
09 30 00.T1	BPI - ATLAS CONCORDE	REFLEX	TITANIUM	12" X 24"	WAINSCOT FIELD TILE	GROUT:
09 30 00.T2	BPI - ATLAS CONCORDE	REFLEX	MERCURY	12" X 24"	WAINSCOT ACCENT TILE	GROUT:
09 30 00.T3	BPI - ATLAS CONCORDE	REFLEX	NIGHT	12" X 24"	WAINSCOT ACCENT BAND AT TOP	GROUT:
09 30 00.T4	CROSSVILLE - LAMINAM	FILO	COLOR: PECE, TEXTURED	1000 X 3000 MM RECTIFIED	WALL TILE AT GYM LOBBY	GROUT:
09 30 00.T5	EMSER	RAKU	COLOR: WHITE	3" X 12"	RESTROOM WALLS	GROUT:
09 30 00.T6	EMSER	RAKU	COLOR: CHARCOAL	3" X 12"	RESTROOM WALLS	GROUT:
09 30 00.T7	EMSER	RAKU	COLOR: MUSTARD	3" X 12"	RESTROOM WALLS	GROUT:
09 30 00.T8	TILE BAR	HEXART	COLOR: YELLOW POP	8" HEXAGON	DRINKING FOUNTAINS	GROUT:
09 30 00.T9	BPI - ATLAS CONCORDE	REFLEX	NIGHT	24" X 48"	ACCENT AT MAINSTREET	GROUT:
ACOUSTICAL CEILINGS						
09 51 00.ACP1	ARMSTRONG - ACOUSTIC CEILING PANEL/TILE	STANDARD	WHITE	24'X24", 15/16"		RE: RCPS
09 51 00.ACP2	ACOUSTICAL CEILING PANEL	VINYL FACED	WHITE	24'X24", 15/16"		RE: RCPS
09 51 00.ACP3	ACOUSTICAL CEILING PANEL	HIGHER NRC	WHITE	24'X24", 15/16"		RE: RCPS
09 51 00.ACT4	ACOUSTICAL CEILING PANEL	REFLECTIVE		24'X24", 15/16"		RE: RCPS
09 51 00.ACT5	ACOUSTICAL CEILING PANEL	HIGHER NRC	BLACK	24'X24", 15/16"		RE: RCPS
09 51 00.ACS1	ACOUSTIC CEILING SYSTEM		WHITE	15/16"	FIELD ACS	RE: RCPS
09 51 00.ACS2	ACOUSTIC CEILING SYSTEM		BLACK	15/16"		RE: RCPS
09 51 00.ACS3	ACOUSTIC CEILING SYSTEM					
09 51 00.XCT6	CEILING TRIM	AXIOM CLASSIC	TBD	6"	CEILING CLOUDS	RE: RCPS
WOOD FLOORING						
09 64 66.WGM	TARKETT	CLUTCH COURT	2ND & BETTER (MAIN COURT) & 3RD (PERIMETER)		COMP & AUX GYM FLOORING	
LUXURY VINYL TILE						
09 65 00.RFT1	TARKETT	COLOR PLAY; COLOR BEAM	C113 MOONLIGHT	18"X18"	CLASSROOM WING, CLASSROOMS	LIGHT FIELD
09 65 00.RFT2	TARKETT	COLOR PLAY; COLOR BEAM	C121 FLANNEL	18"X18"	CLASSROOM WING, CLASSROOMS	ACCENT GRAY
09 65 00.RFT3	TARKETT	COLOR PLAY; COLOR BEAM	C120 ECLIPSE	18"X18"	CLASSROOM WING, CLASSROOMS	ACCENT BLACK
09 65 00.RFT4	TARKETT	COLOR PLAY; COLOR BEAM	C106 STRAW	18"X18"	CLASSROOM WING, CLASSROOMS	ACCENT GOLD
09 65 00.RFT5	MOHAWK	LIVING LOCAL COLLECTION, PREMIUM WOOD C0194	330 ALMOND	7.75" X 52" NOMINAL	CORRIDORS AT LEVEL 2	MATCH LVT AT PHASE 2
RUBBER BASE						
09 65 13.RB1	JOHNSONITE	TRADITIONAL WALL BASE	CHARCOAL	4"	FIELD	
09 65 13.RB2	JOHNSONITE	TRADITIONAL WALL BASE	BLACK	4"	WEIGHT ROOM	
09 65 13.RB3	JOHNSONITE	VENTED COVE BASE	BLACK		COMPETITION GYM AND PRACTICE GYMS	
RUBBER STAIR TREAD & RUBBER TILE						
09 65 13.RSR	TARKETT	ANGLE FIT RUBBER STAIR TREAD W/ INTEGRATED RISER	COLOR: VG1 FORK FALLS	TEXTURE: RAISED ROUND	EGRESS STAIRS	
09 65 13.RSR2	TARKETT	ANGLE FIT RUBBER STAIR TREAD W/ INTEGRATED RISER	COLOR:	TEXTURE: RAISED ROUND	STAIRS AT LIBRARY	
09 65 19 RT1	TARKETT	COLOR SPLASH	COLOR: VG1 FORK FALLS		LANDINGS EGRESS STAIRS	
RESILIENT ATHLETIC FLOORING						
09 65 66.PRA1	TARKETT SPORTS	REPLAY	RA1 MELLOWED	18"MM THICKNESS, ROLLS	WEIGHT ROOM, FIELD	
09 65 66.PRA2	TARKETT SPORTS	REPLAY	507 NIGHT	18"MM THICKNESS, ROLLS	WEIGHT ROOM, ACCENT	
TERRAZZO FLOORING						
09 66 23.16. TZE1	TERRAZZO & MARBLE	TERROXY	TM 19GG-856		FIELD -WHITE	MAIN STREET
09 66 23.16. TZE2	TERRAZZO & MARBLE	TERROXY	TM 19GG-538		ACCENT - BLACK	MAINSTREET, GYM LOBBY
09 66 23.16. TZE3	TERRAZZO & MARBLE	TERROXY	TM 21GG-480		ACCENT - GRAY	MAINSTREET, GYM LOBBY
09 66 23.16. TZE4	TERRAZZO & MARBLE	TERROXY	TM 19GG-995		ACCENT - GOLD	ACCENT AT MAIN STREET AND GYM LOBBY
EPOXY FLOORING						
09 67 00.FF1	PATCRAFT	RESIN FLAKE	STYLE: TRADITIONAL FLAKE, COLOR: F0130 GLINT	INTERGRAL EPOXY BASE 4"	RESTROOMS, CONCESSION, LAUNDRY, LOCKER ROOMS	
CARPET						
09 68 00.CP1	TARKETT			POWERBOND RS	ADMIN CARPET, CONFERENCE ROOMS, TEMP BAND ROOM	
09 68 00.CP2	TARKETT	ANGLED IN ENRICHMENT	11861 FRAME THEORY, 56709 INCLUSION	POWERBOND RS	LIBRARY AND AUDITORIUM	
09 68 00.CP3	TARKETT	ASSERTIVE ACTION 04837	STEELWORK 26202	POWERBOND RS	WALK OFF CARPET	
09 68 00.CP4	TARKETT	PLEXUS COLOUR	18560 LEMON PEEL	POWERBOND RS	ACCENT GOLD	
INTERIOR WALL PANELS						
09 78 00.DPS	PSI	HIGH PRESSURE LAMINATE	EDGING: VINYL, CUSTOM COLOR; DIVIDER MOLDING: CLEAR ANODIZED #631; EDGE TRIM: CLEAR ANODIZED, #60			
ACOUSTICAL MATERIALS						
09 84 00.ARC1	KIREI	ECHOLINE	COLOR: TBD		ACCENT WALL AT RECEPTION	
09 84 00.ARC2	MPS	COLIGO RECTANGLE	COLOR: TBD	SIZE: 4' X 8'	MAIN STREET	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC3	MPS	COLIGO RECTANGLE	COLOR: 03 MARBLE	SIZE: 4' X 8'	MAIN STREET	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC4	MPS	COLIGO RECTANGLE	COLOR: 04 GRAPHITE	SIZE: 4' X 8'	MAIN STREET	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC5	ACOUFELT	WALL TILE, HEXAGON SHAPE	COLOR: TBD		LIBRARY AND COMPETITION GYM	GOLD COLOR
09 84 00.ARC6	ACOUFELT	WALL TILE, HEXAGON SHAPE	COLOR: PI24 PIANO BLACK		LIBRARY	BLACK COLOR
09 84 00.ARC7	ACOUFELT	WALL TILE, HEXAGON SHAPE	COLOR: GR02 GREY		LIBRARY	GREY COLOR
09 84 00.ARC8	MPS	JOIST LED CEILING BAFFLE	COLOR: 09 ONYX	92.50" L X 12"H X 2.77"W	PET CEILING BAFFLES AT MAIN STREET CORRIDOR AND GYM LOBBY	RE: RCPS, CABLE GRIPPER INSTALLATION
09 84 00.ARC9	MPS	JOIST FELT CEILING BAFFLE	COLOR: 09 ONYX	92.50" L X 12"H X 2.77"W	PET CEILING BAFFLES AT MAIN STREET CORRIDOR AND GYM LOBBY	RE: RCPS, CABLE GRIPPER INSTALLATION
09 84 00.ARC10	MPS	JOIST FELT CEILING BAFFLE	COLOR: 11 LEMON	92.50" L X 12"H X 2.77"W	PET CEILING BAFFLES AT MAIN STREET CORRIDOR AND GYM LOBBY	RE: RCPS, CABLE GRIPPER INSTALLATION
09 84 00.ARC11	ACOUFELT	HEXAGON CEILING CLOUDS	COLOR:	LARGE: 41.57" X 48"	FELT CEILING CLOUDS AT LIBRARY	RE: RCPS
09 84 00.ARC12	ACOUFELT	HEXAGON CEILING CLOUDS	COLOR: TBD	LARGE: 41.57" X 48"	FELT CEILING CLOUDS AT LIBRARY	RE: RCPS
09 84 00.ARC13	ACOUFELT	HEXAGON CEILING CLOUDS	COLOR: TBD	LARGE: 41.57" X 48"	FELT CEILING CLOUDS AT LIBRARY	RE: RCPS
09 84 00.ARC14	ARMSTRONG	TECTUM WALL/CEILING PANELS			DIRECT ATTACHED	REFER TO DWGS FOR SIZES AND LOCATIONS
09 84 00.ARC15	CSI CREATIVE	SINGLE BAFFLES 003	BFL-SGL-003, SOUNDCORE; COLOR: TBD		BAFFLES AT COLLAB/FLEX AREAS	
PAINT						
09 90 00.P1	SHERWIN WILLIAMS		SW 7014 EIDER WHITE		FIELD	
09 90 00.P2	SHERWIN WILLIAMS		SW 7066 GRAY MATTERS		ACCENT, EXPOSED CEILING AT GYM	
09 90 00.P3	SHERWIN WILLIAMS		SW 7068 GRIZZLE GRAY		ACCENT, DOOR FRAMES, GYP CEILING AT WEIGHT ROOM	
09 90 00.P4	SHERWIN WILLIAMS		BRANDING GOLD		SPIRIT COLOR	CONFIRM WITH DISTRICT
09 90 00.P5	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC		SPIRIT COLOR, EXPOSED STRUCTURE	
09 90 00.P6	SHERWIN WILLIAMS		SW7014 EIDER WHITE (EPOXY FINISH)		CMU WALLS WHERE INDICATED	
09 90 00.P7	SHERWIN WILLIAMS		SW 7066 GRAY MATTERS (EPOXY FINISH)			
09 90 00.P8	SHERWIN WILLIAMS		BRANDING GOLD (EPOXY FINISH)		SPIRIT COLOR	CONFIRM WITH DISTRICT
09 90 00.P9	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC (EPOXY FINISH)			
09 90 00.P10	SHERWIN WILLIAMS		SW 7648 BIG CHILL (EPOXY FINISH)		GYM FIELD PAINT COLOR	
SIGNAGE						
10 14 00.RID1	FORMICA		COLOR: MATCH SIGNAGE FROM PHASE 2		ROOM SIGNAGE	TOP
10 14 00.RID2	FORMICA		COLOR: MATCH SIGNAGE FROM PHASE 2		ROOM SIGNAGE	BOTTOM
TOILET COMPARTMENTS/PARTITIONS						
10 21 13.19.PTC	ASI-ACCURATE PARTITION	SOLID PLASTIC	#9205 BLACK		RESTROOMS	
CORNER GUARDS/WALL PROTECTION						
10 26 00.CG1	KOROSEAL	KOROGARD	COLOR TO BE SELECTED DURING SUBMITTALS		WHERE APPLICABLE	
06 83 16.FPW		FRP	COLOR: TBD, FINISH: PEBBLED	4' x 8' PANEL		
06 83 16.TRM		FRP TRIM	FINISH: VINYL			
WINDOW TREATMENT						
12 21 13.HB1	HUNTER DOUGLAS	2" FAUX WOOD BLINDS			REF TO DRAWINGS	HORIZONTAL BLINDS
12 24 00.SB1	DRAPER	SUNBLOC SERIES			REF TO DRAWINGS	WINDOW SHADE BLACKOUT FABRIC
12 24 00.SF1	DRAPER	SHEERWEAVE SERIES			REF TO DRAWINGS	WINDOW SHADE FABRIC
12 22 00						
SOLID SURFACE/RESIN						
12 36 00.SCT1	WILSONART	SOLID SURFACE COUNTERTOPS	AVALANCHE MELANGE, 9175ML		COUNTERTOPS WHERE APPLICABLE	
12 36 00 SCT2	WILSONART	SOLID SURFACE WINDOW SILLS	FROSTY WHITE, 1573SL		WINDOW SILLS	
12 36 00. ERC	SHELDON LABORATORY SYSTEMS	EPOXY RESIN COUNTERTOPS	COLOR: BLACK, TR-5 FINISH, 1" THICKNESS; SURFACE FINISH: SMOOTH, NON GLARE		CHEMISTRY LABS AND IPC	
MISC.						
10 51 13.AL	METAL LOCKERS				LOCKER ROOM	METAL LOCKERS
	BLEACHERS	TELESCOPIC BENCH	BENCH COLOR: BLACK		GYMS	
	WALL PADS		COLOR: BLACK		GYMS	
	DUCT SOCK				GYMS	
10 22 39.FPH	OPERABLE PARTITION	MODERNFOLD	ACOUSTI SEAL, MODEL 933	MANUAL	TEAM ROOMS	
06 83 16.FPW		FRP WALL SYSTEM			WHERE APPLICABLE	
10 12 00.DCR	CLARIDGE	370 SERIES RECESSED DISPLAY CASE				

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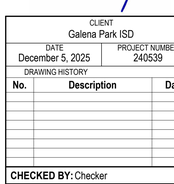

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

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CHECKED BY: Checker

DRAWN BY: Author

FINISH SCHEDULE

A-900

LEVEL 1 - OVERALL FLOOR FINISH PLAN
A-901
FOR BLUEBEAM LABELING/OCR:

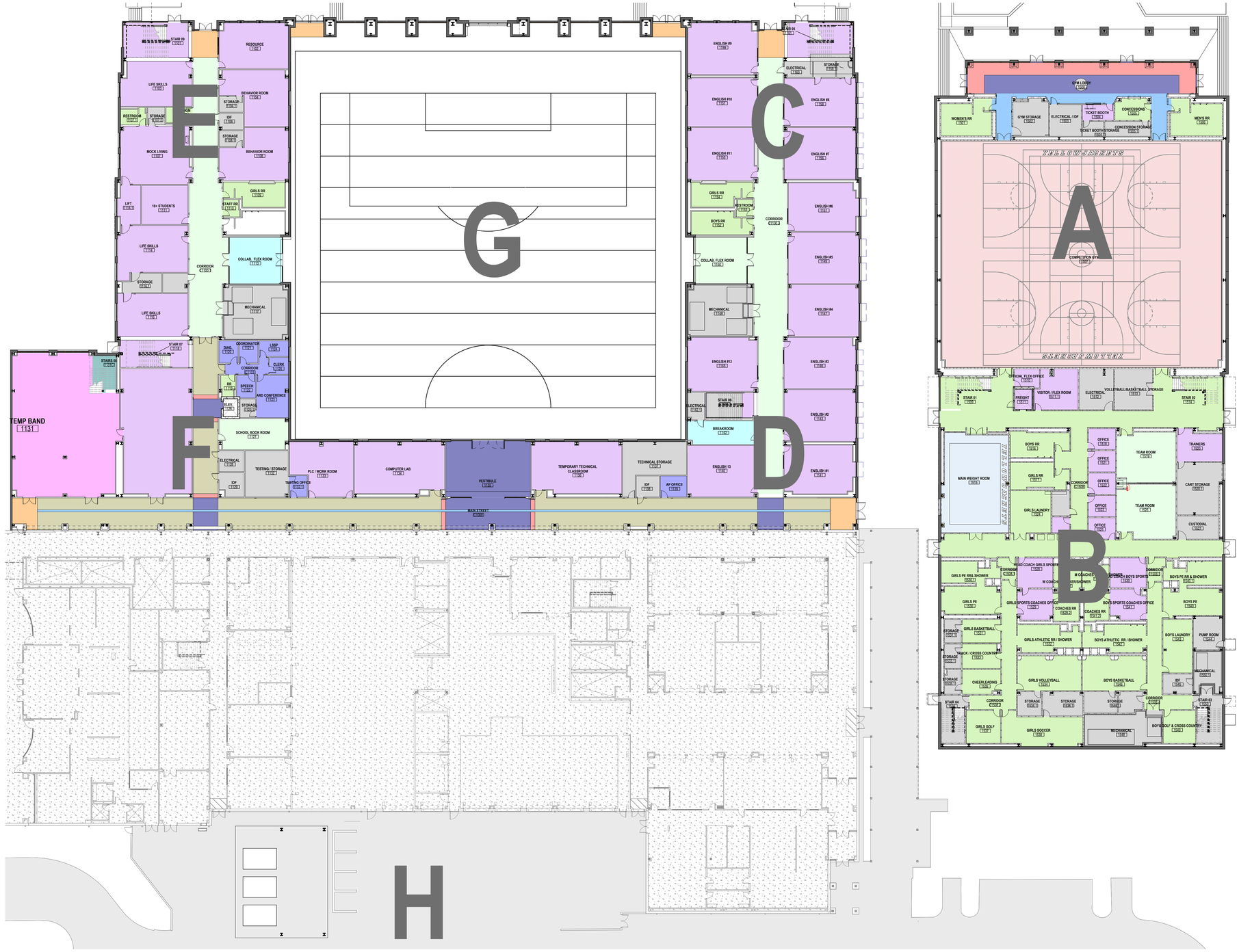
0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 1 - OVERALL FLOOR FINISH PLAN
1" = 20'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JOHN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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LEVEL 1 - OVERALL FLOOR FINISH PLAN

A-901

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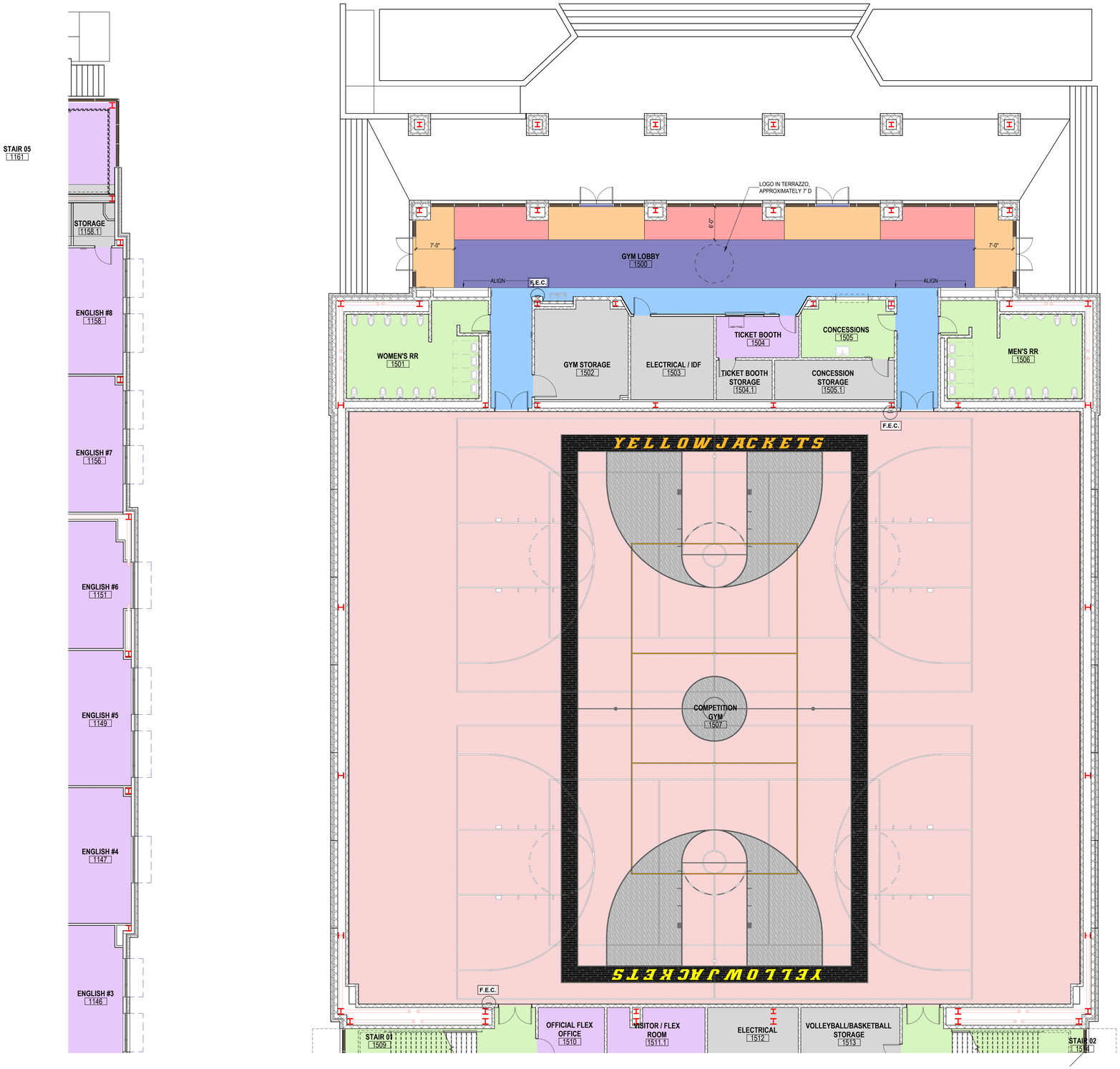
LEVEL 1 - AREA A FLOOR FINISH PLAN
A-901A
FOR BLUEBEAM LABELING/DOOR:

0"
1"



06 LEVEL 1 - AREA A FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 65 00.RFT1** VINYL TILE
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 65 00.RFT2** VINYL TILE
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 65 00.RFT3** VINYL TILE
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 65 00.RFT4** VINYL TILE
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 65 00.RFT5** VINYL TILE
- **09 67 00.FF1** EPOXY FLOORING

REPRESENTS: 18" X 18" LVT

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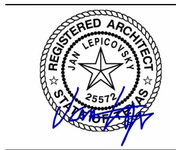
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA A
FLOOR FINISH PLAN

A-901A

Plot Stamp:
12/5/2025 3:11:31 PM

LEVEL 1 - AREA B FLOOR FINISH PLAN
A-901B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



06 LEVEL 1 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **REPRESENTS:** 18" X 18" LVT
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25577 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA B FLOOR FINISH PLAN

A-901B

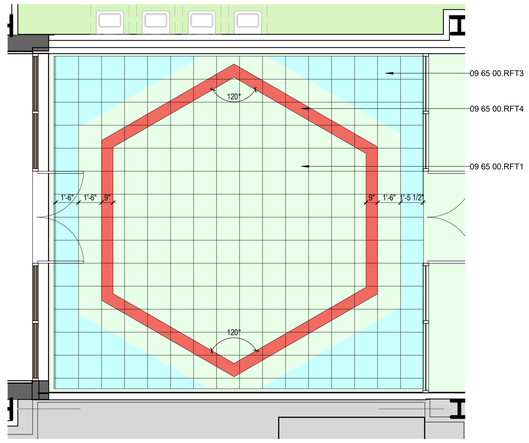
Plot Stamp:
12/5/2025 3:11:35 PM

LEVEL 1 - AREA C FLOOR FINISH PLAN
A-901C
FOR BLUEBEAM LABELING/OCR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT



1 LVT PATTERN AT COLLAB/FLEX
1/4" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 1 - AREA C FLOOR FINISH PLAN
1/8" = 1'-0"

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Galena Park, TX 77547

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA C
FLOOR FINISH PLAN

A-901C

LEVEL 1 - AREA D FLOOR FINISH PLAN
A-901D
FOR BLUEBEAM LABELING/OCR:

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
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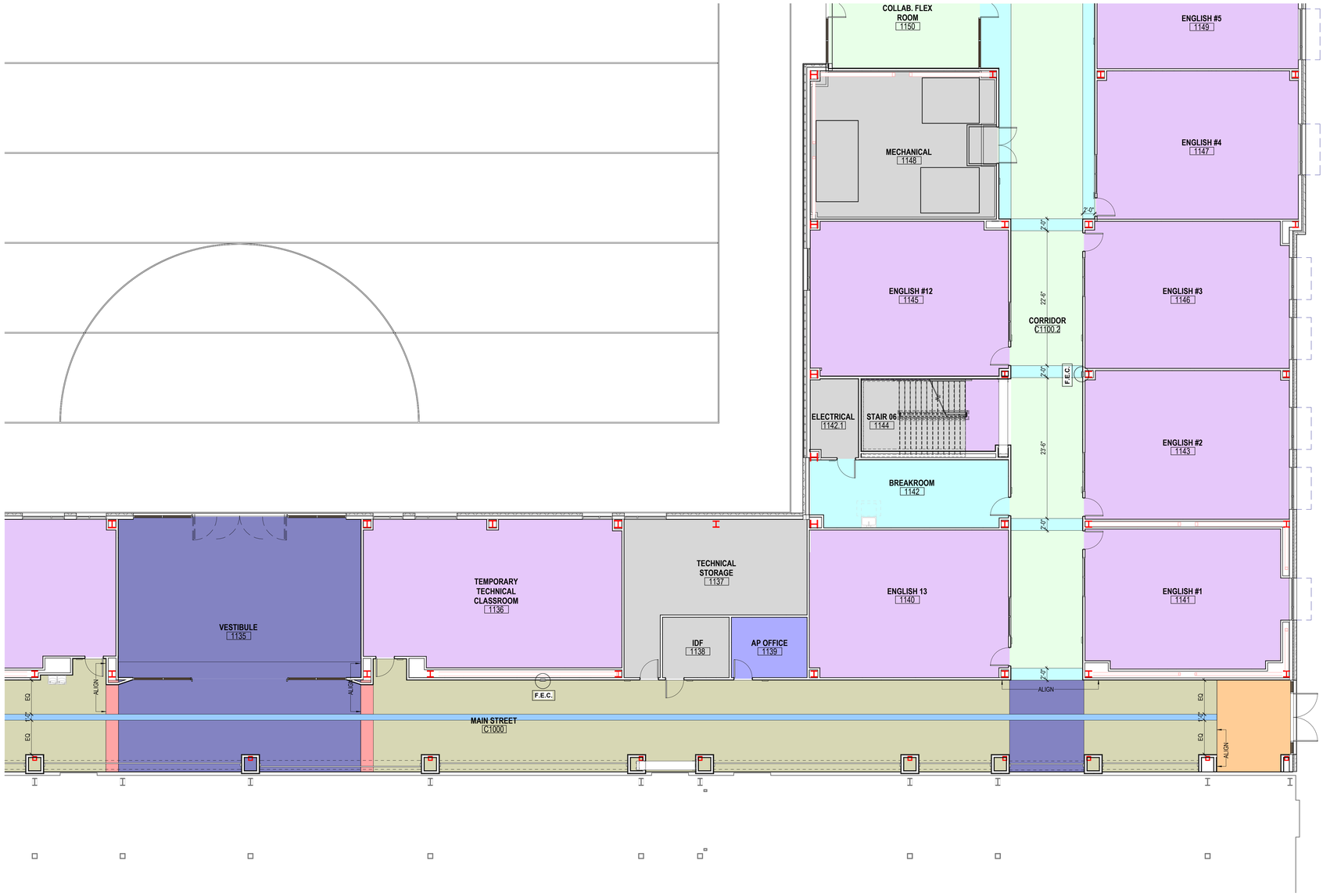
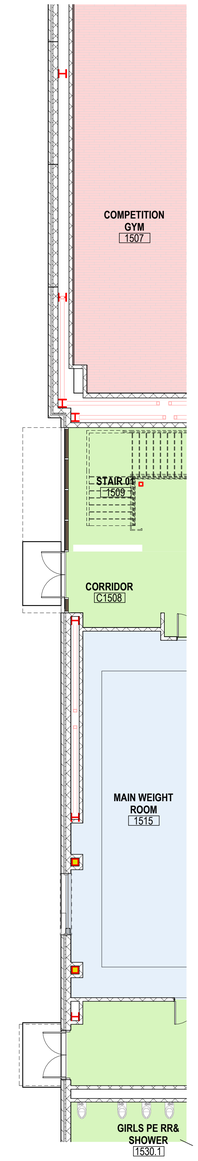
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**





06 LEVEL 1 - AREA D FLOOR FINISH PLAN
1/8" = 1'-0"

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Galena Park, TX 77547
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KEY PLAN
NORTH: PLAN TRUE

LICENSED REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA D FLOOR FINISH PLAN

A-901D

Plot Stamp:
12/5/2025 3:11:39 PM

0"
1"

LEVEL 1 - AREA E FLOOR FINISH PLAN
A-901E
FOR BLUEBEAM LABELING/DOOR:



GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
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9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **REPRESENTS:** 18" X 18" LVT
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

06 LEVEL 1 - AREA E FLOOR FINISH PLAN
1/8" = 1'-0"

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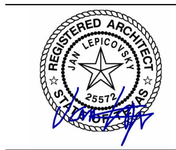
KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA E FLOOR FINISH PLAN

A-901E

Plot Stamp:
12/5/2025 3:11:40 PM

LEVEL 1 - AREA F FLOOR FINISH PLAN
A-901F
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
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8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 1 - AREA F FLOOR FINISH PLAN
1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

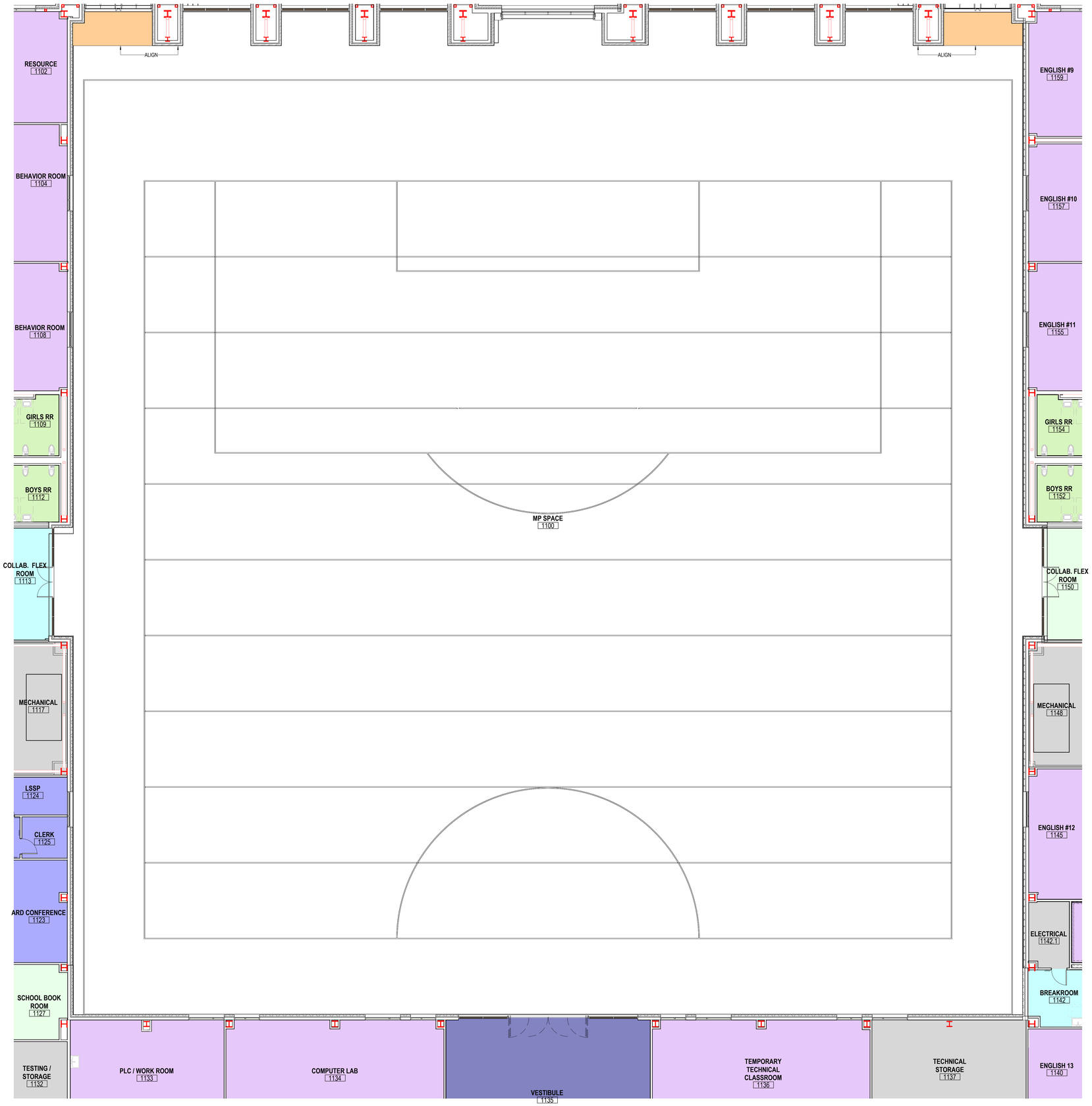
LEVEL 1 - AREA F FLOOR FINISH PLAN

A-901F

Plot Stamp:
12/5/2025 3:11:42 PM

LEVEL 1 - AREA G FLOOR FINISH PLAN
A-901G
FOR BLUEBEAM LABELING/DOOR:

0"
1"



06 LEVEL 1 - AREA G FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
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10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **REPRESENTS:** 18" X 18" LVT
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

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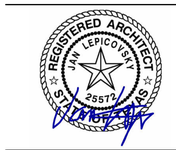

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA G
FLOOR FINISH PLAN

A-901G

Plot Stamp:
12/5/2025 3:11:44 PM

LEVEL 2 - OVERALL FLOOR FINISH PLAN
A-902
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
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3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 2 - OVERALL FLOOR FINISH PLAN
1" = 20'-0"

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Galena Park, TX 77547

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Galena Park ISD
EXCELLENCE IN ALL FOR ALL STUDENTS

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

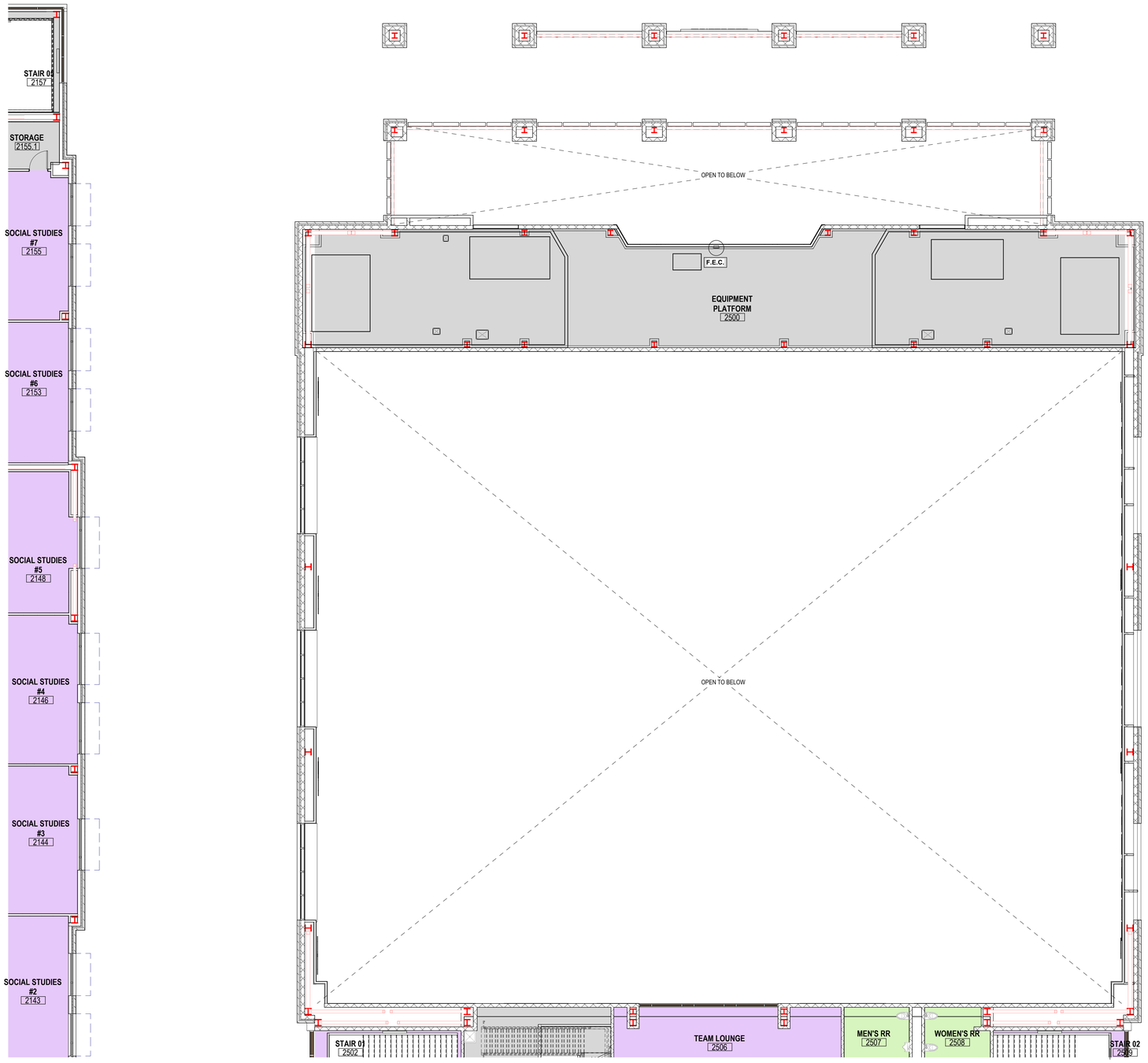
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - OVERALL FLOOR FINISH PLAN

A-902

0"
1"

LEVEL 2 - AREA A FINISH FLOOR PLAN
A-902A
FOR BLUEBEAM LABELING/DOOR:



06 LEVEL 2 - AREA A FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
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8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **REPRESENTS:** 18" X 18" LVT
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

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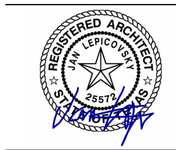
KEY PLAN
NORTH: PLAN TRUE





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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

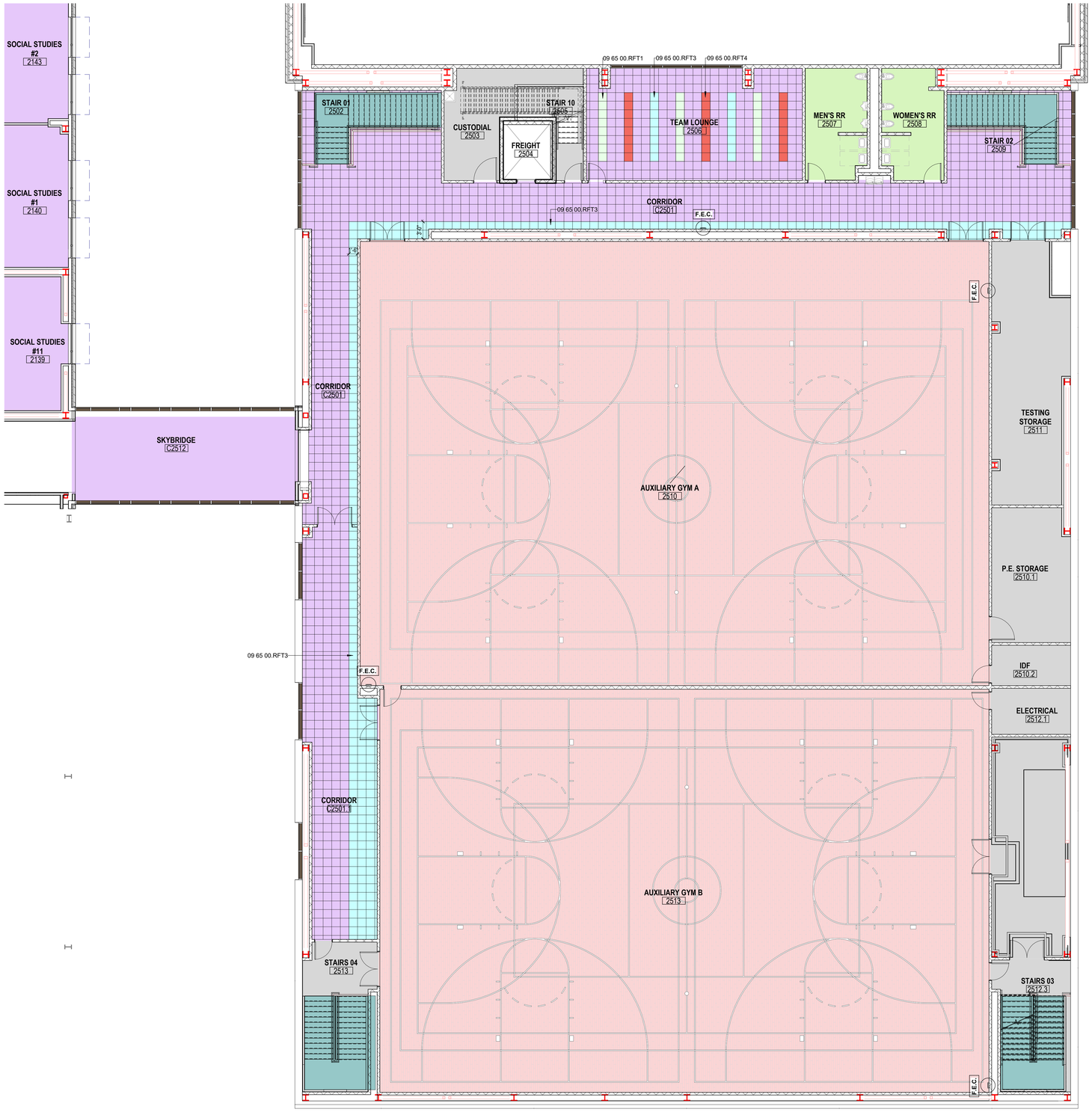
LEVEL 2 - AREA A FINISH FLOOR PLAN

A-902A

Plot Stamp:
12/5/2025 3:11:50 PM

0"
1"

LEVEL 2 - AREA B FINISH FLOOR PLAN
A-902B
FOR BLUEBEAM LABELING/DOOR:



06 LEVEL 2 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 64 66.WGM** SPORTS WOOD FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 13.RSR** RUBBER STAIR TREADS/RISER
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 66.PRA1** RUBBER FLOORING, ROLLS
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 66.PRA2** RUBBER FLOORING, ROLLS
09 65 00.RFT1 VINYL TILE	**09 66 13.TZ1** TERRAZZO FLOORING
09 65 00.RFT2 VINYL TILE	**09 66 13.TZ2** TERRAZZO FLOORING
09 65 00.RFT3 VINYL TILE	**09 66 13.TZ3** TERRAZZO FLOORING
09 65 00.RFT4 VINYL TILE	**09 66 13.TZ4** TERRAZZO FLOORING
09 65 00.RFT5 VINYL TILE	**09 67 00.FF1** EPOXY FLOORING
REPRESENTS: 18" X 18" LVT	

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25572
STATE OF TEXAS

CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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LEVEL 2 - AREA B FINISH FLOOR PLAN

A-902B

Plot Stamp:
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LEVEL 2 - AREA C FINISH FLOOR PLAN
A-902C
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
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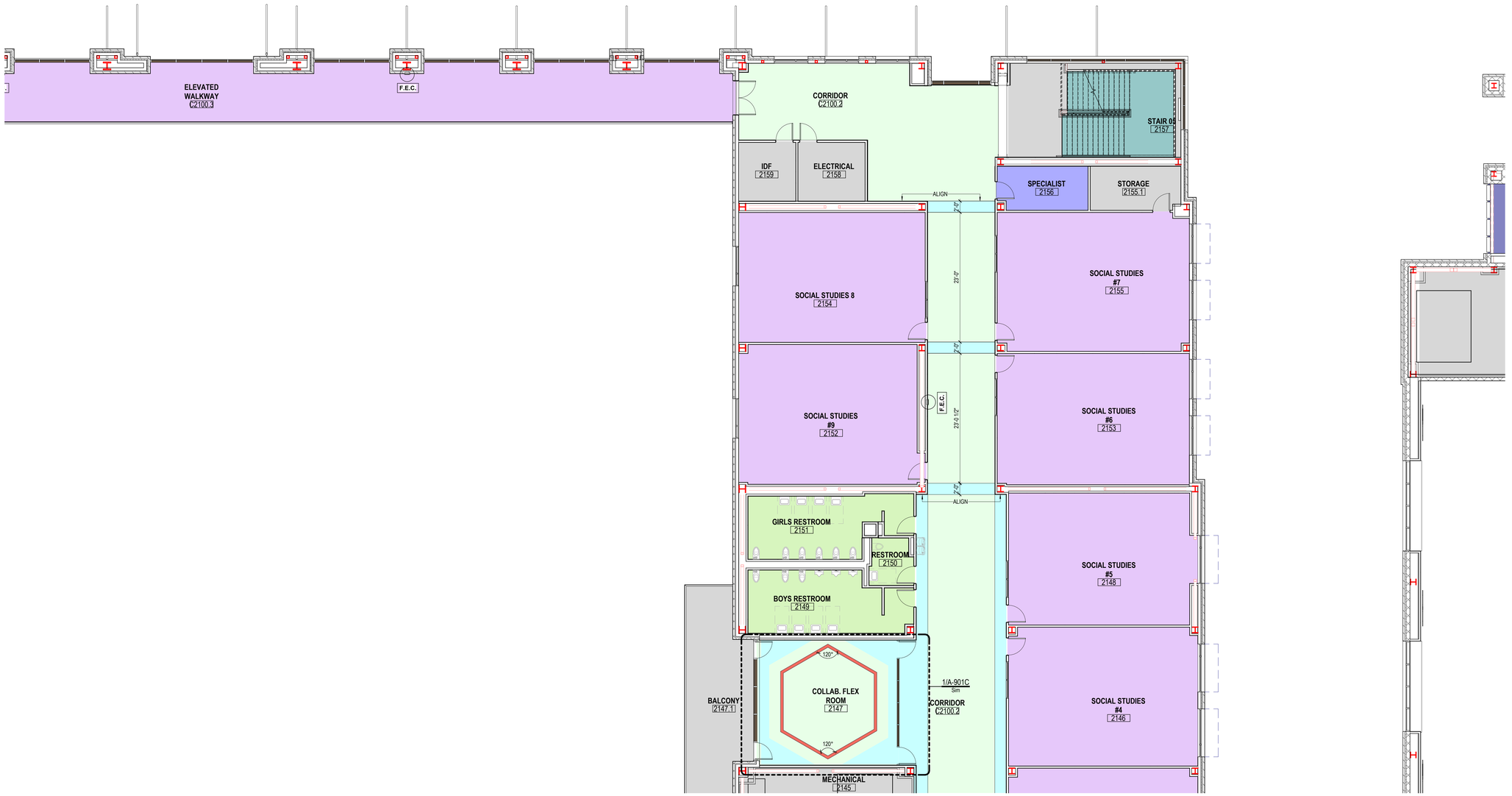
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 2 - AREA C FLOOR FINISH PLAN
1/8" = 1'-0"

Plot Stamp:
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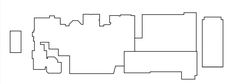
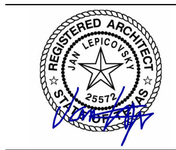
KEY PLAN
NORTH: PLAN TRUE





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Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

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LEVEL 2 - AREA C
FINISH FLOOR PLAN

A-902C

LEVEL 2 - AREA D FINISH FLOOR PLAN
A-902D
FOR BLUEBEAM LABELING/OCR:

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	09 65 00.RFT1 VINYL TILE	09 65 00.RFT5 VINYL TILE	09 65 66.PRA1 RUBBER FLOORING, ROLLS	09 66 13.TZ3 TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	09 65 00.RFT2 VINYL TILE	09 64 66.WGM SPORTS WOOD FLOORING	09 65 66.PRA2 RUBBER FLOORING, ROLLS	09 66 13.TZ4 TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	09 65 00.RFT3 VINYL TILE	09 65 13.RSR RUBBER STAIR TREADS/RISER	09 66 13.TZ1 TERRAZZO FLOORING	09 67 00.FF1 EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	09 65 00.RFT4 VINYL TILE	09 65 13.RSR2 RUBBER STAIR TREADS/RISER AT LIBRARY	09 66 13.TZ2 TERRAZZO FLOORING	REPRESENTS: 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
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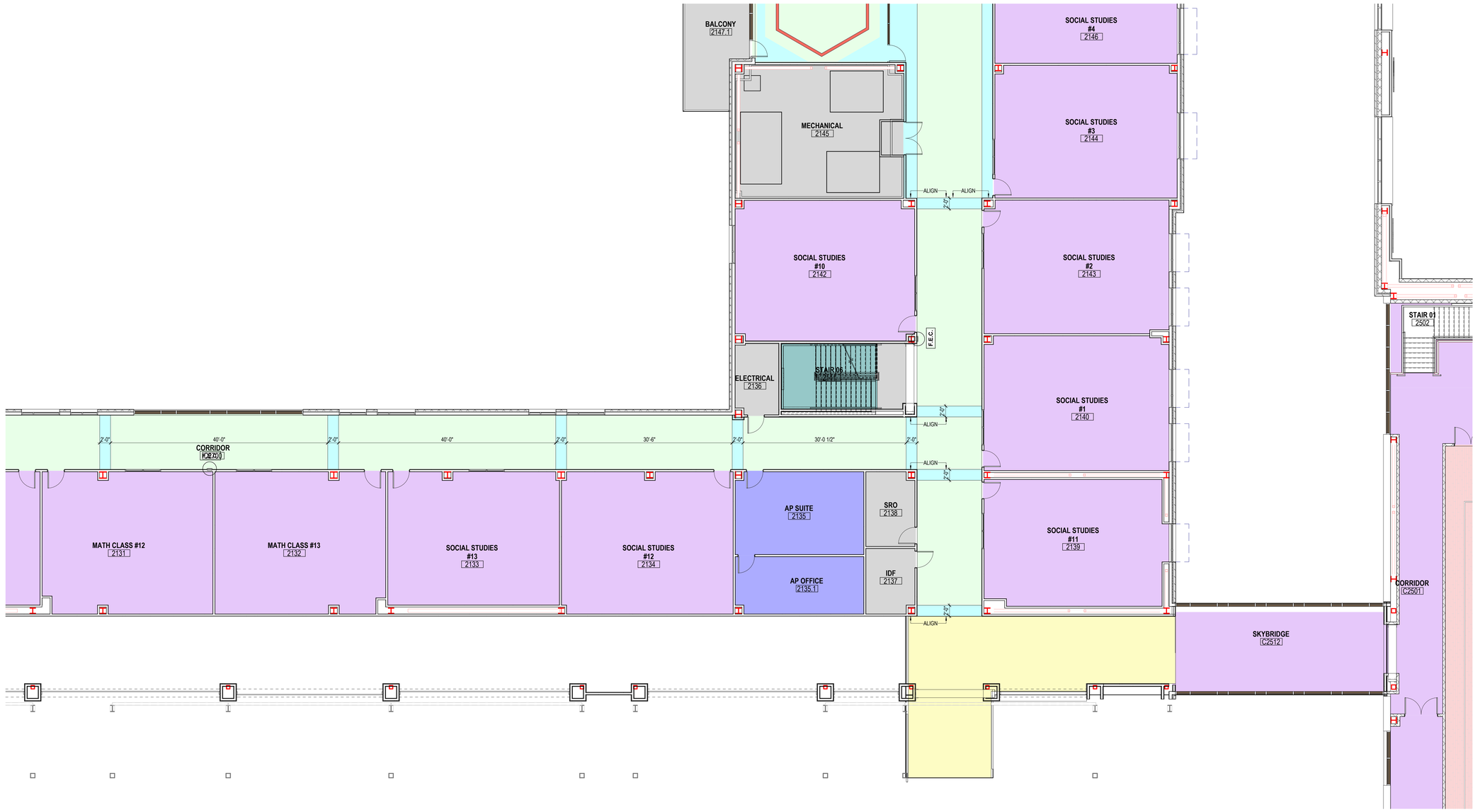
8. REFER TO A-912 FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL 2/A-912.



06 LEVEL 2 - AREA D FLOOR FINISH PLAN
1/8" = 1'-0"

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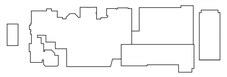

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D FINISH FLOOR PLAN

A-902D

Plot Stamp:
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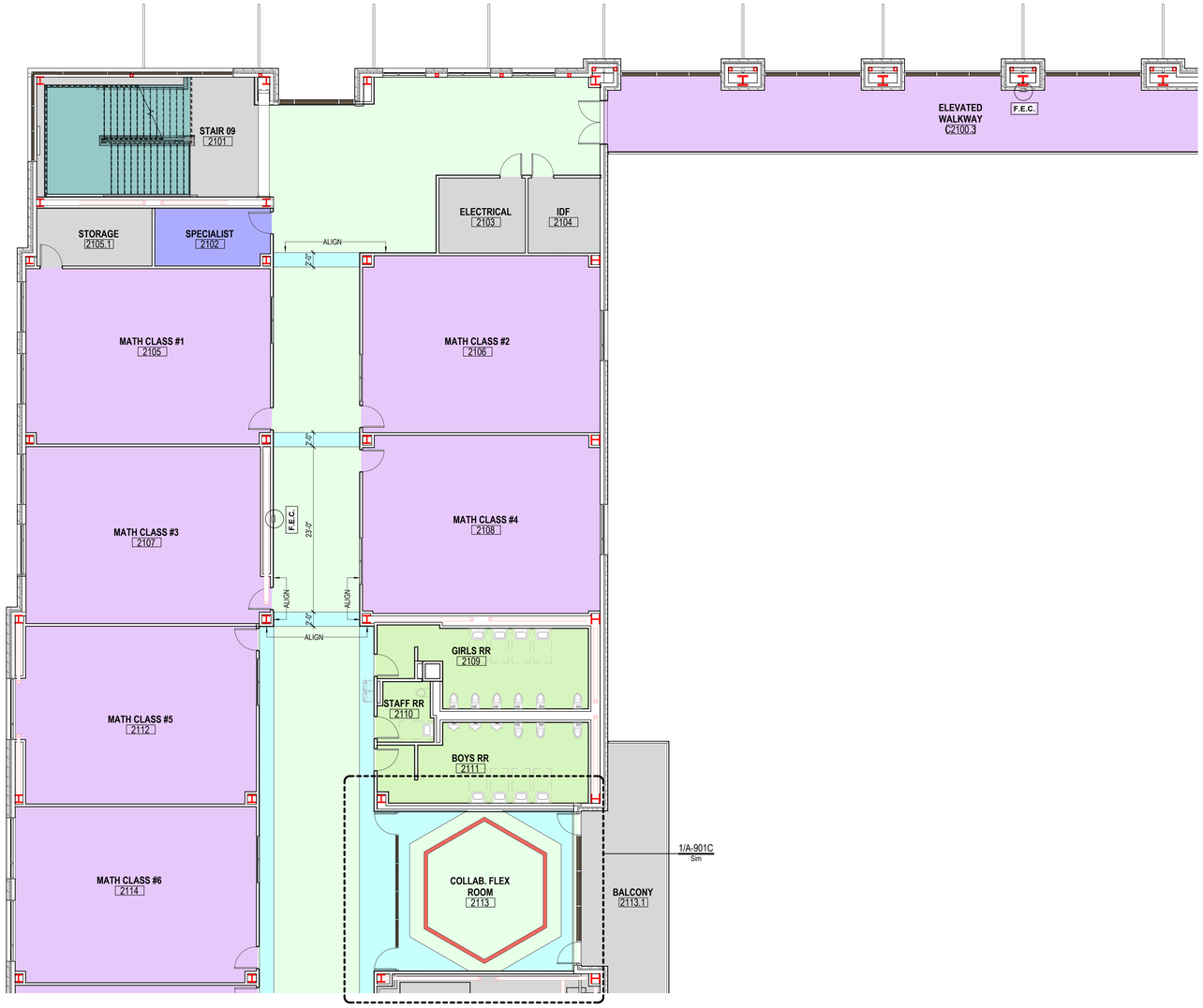
0"
1"

LEVEL 2 - AREA E FINISH FLOOR PLAN
A-902E
FOR BLUEBEAM LABELING/DOOR:



06 LEVEL 2 - AREA E FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
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9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **REPRESENTS:** 18" X 18" LVT
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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LEVEL 2 - AREA E FINISH FLOOR PLAN

A-902E

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LEVEL 2 - AREA F FINISH FLOOR PLAN
A-902F
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

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10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 2 - AREA F FLOOR FINISH PLAN
1/8" = 1'-0"

Plot Stamp:
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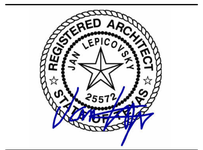
KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA F
FINISH FLOOR PLAN

A-902F

LEVEL 3 - OVERALL FLOOR FINISH PLAN
A-903
FOR BLUEBEAM LABELING/DOOR:

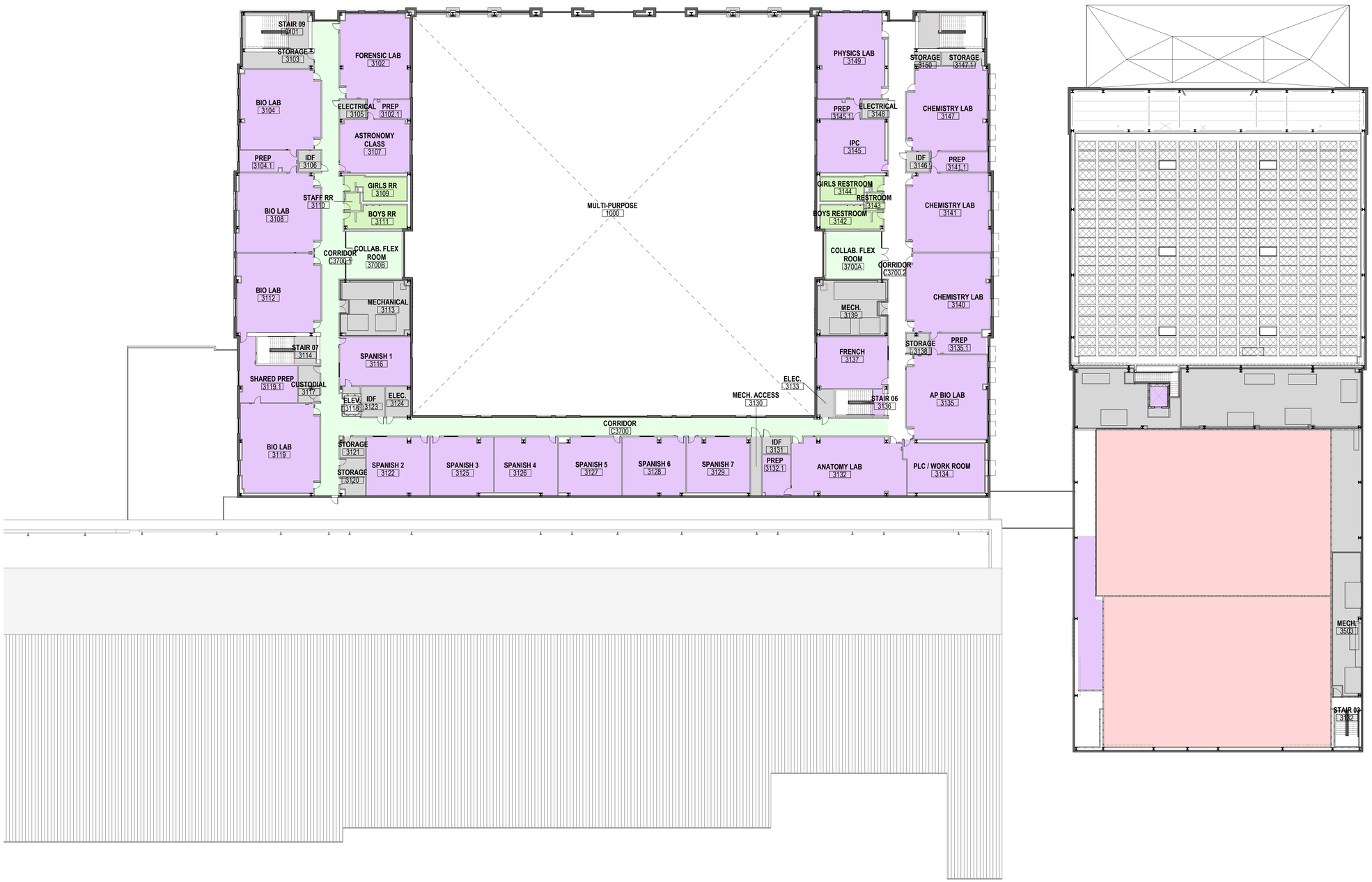
0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
4. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
5. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
6. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
7. FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.. FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
8. REFER TO **A-912** FOR FLOOR TRANSITIONS AT THRESHOLD.
9. GENERAL CONTRACTOR TO SUBMIT FLOORING PATTERN LAYOUT WITH STRIPING COLORS AND STRIPING WIDTH AND NOTIFY ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH THE FLOORING INSTALLATION UNTIL LAYOUT IS APPROVED BY ARCHITECT.
10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

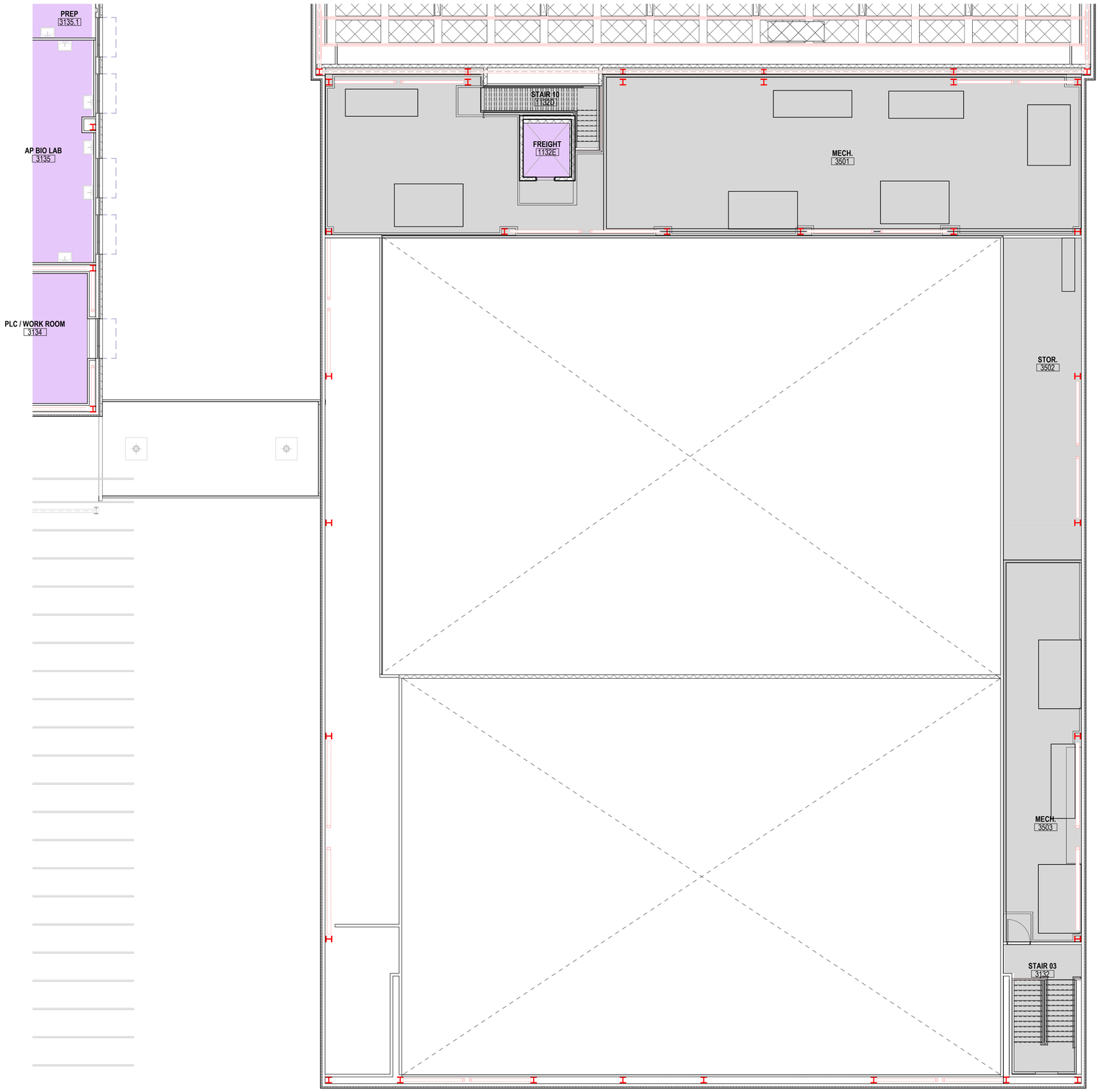
LEVEL 3 - OVERALL FLOOR FINISH PLAN

A-903

Plot Stamp:
12/5/2025 3:12:01 PM

LEVEL 3 - AREA B FINISH FLOOR PLAN
A-903B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



GENERAL FLOOR FINISH NOTES

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10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**

FLOOR FINISH LEGEND

- **03 35 00.SC1** SEALED CONCRETE
- **09 68 00.CPT1** POWERBOND CARPET, TYPE 1
- **09 68 00.CPT2** POWERBOND CARPET, TYPE 2
- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
- **09 65 66.PRA2** RUBBER FLOORING, ROLLS
- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

REPRESENTS: 18" X 18" LVT

06 LEVEL 3 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

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JAN LEPICOVSKY
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: Author

LEVEL 3 - AREA B
FINISH FLOOR PLAN

A-903B

Plot Stamp:
12/5/2025 3:12:03 PM

LEVEL 3 - AREA C FINISH FLOOR PLAN
A-903C
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
09 68 00.CPT2 POWERBOND CARPET, TYPE 2	**09 65 00.RFT3** VINYL TILE	**09 65 13.RSR** RUBBER STAIR TREADS/RISER	**09 66 13.TZ1** TERRAZZO FLOORING	**09 67 00.FF1** EPOXY FLOORING
09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

GENERAL FLOOR FINISH NOTES

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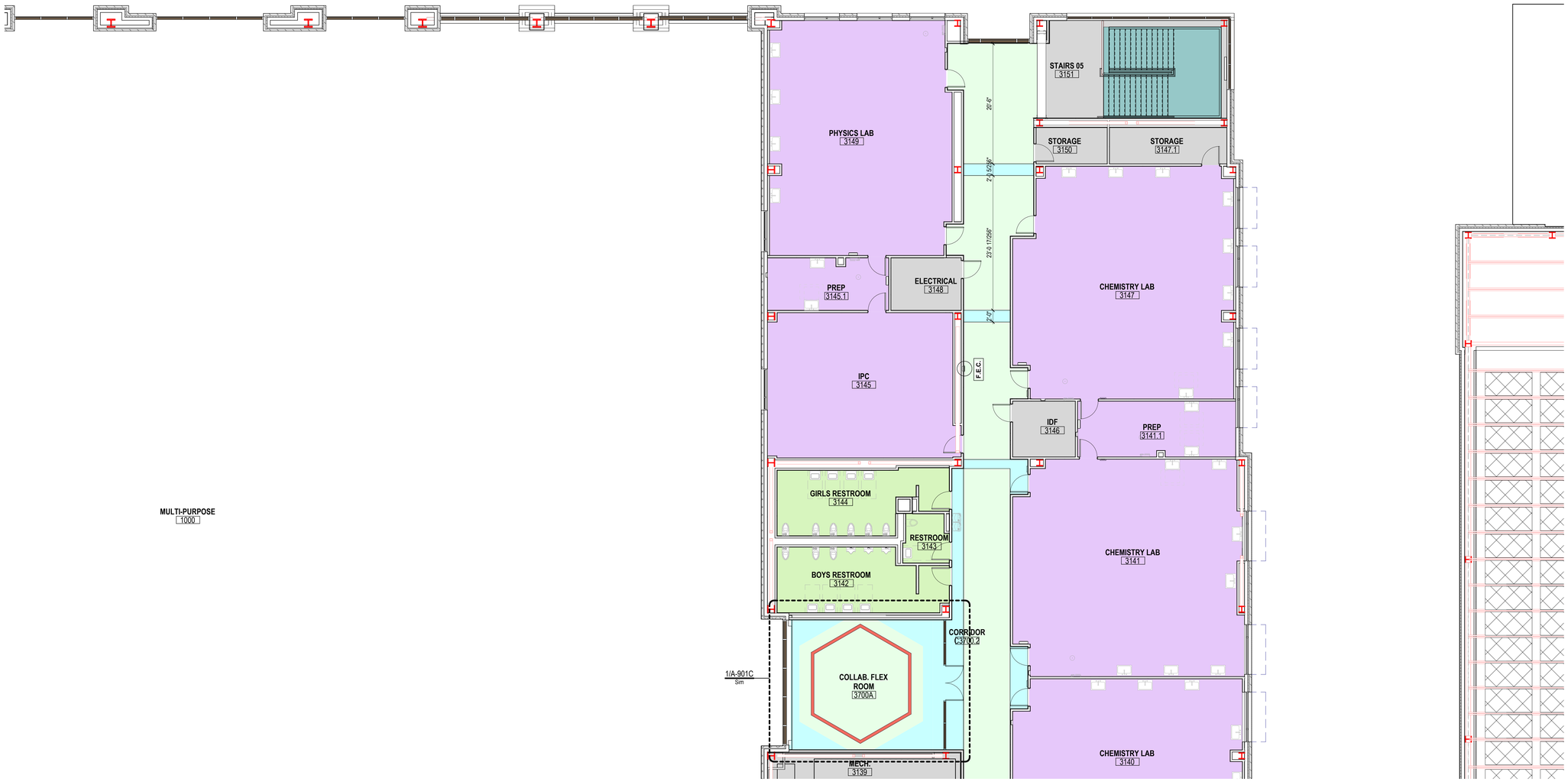

06 LEVEL 3 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

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NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA C
FINISH FLOOR PLAN

A-903C

LEVEL 3 - AREA D FINISH FLOOR PLAN
A-903D
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
09 68 00.CPT1 POWERBOND CARPET, TYPE 1	**09 65 00.RFT2** VINYL TILE	**09 64 66.WGM** SPORTS WOOD FLOORING	**09 65 66.PRA2** RUBBER FLOORING, ROLLS	**09 66 13.TZ4** TERRAZZO FLOORING
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09 68 00.CPT3 WALK-OFF POWERBOND	**09 65 00.RFT4** VINYL TILE	**09 65 13.RSR2** RUBBER STAIR TREADS/RISER AT LIBRARY	**09 66 13.TZ2** TERRAZZO FLOORING	**REPRESENTS:** 18" X 18" LVT

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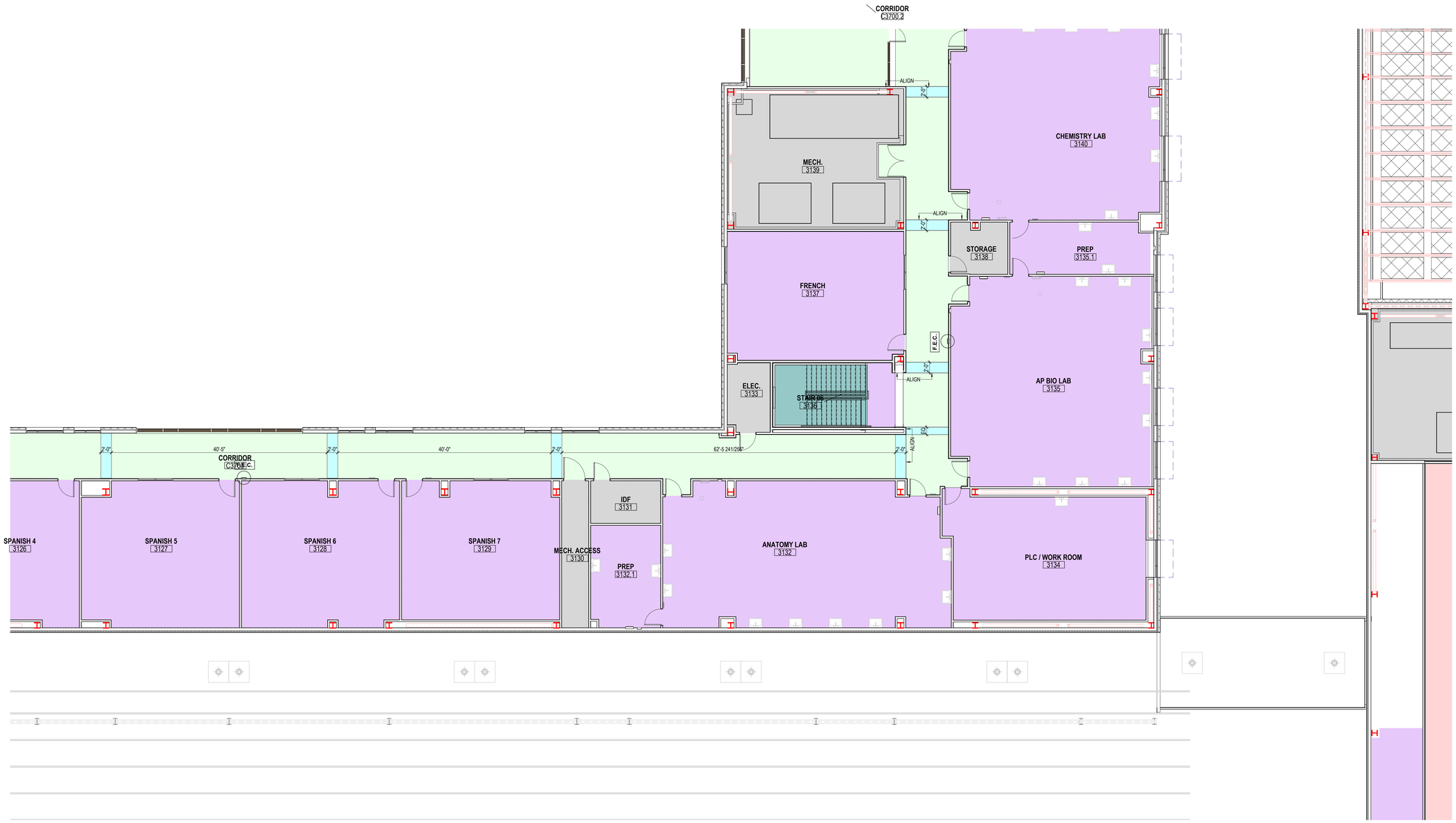

06 LEVEL 3 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

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KEY PLAN
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STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25577

CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: Author

LEVEL 3 - AREA D
FINISH FLOOR PLAN

A-903D

Plot Stamp:
12/5/2025 3:12:06 PM

0"
1"

LEVEL 3 - AREA E FINISH FLOOR PLAN
A-903E
FOR BLUEBEAM LABELING/DOOR:



06 LEVEL 3 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

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FLOOR FINISH LEGEND

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- **09 68 00.CPT3** WALK-OFF POWERBOND
- **09 65 00.RFT1** VINYL TILE
- **09 65 00.RFT2** VINYL TILE
- **09 65 00.RFT3** VINYL TILE
- **09 65 00.RFT4** VINYL TILE
- **09 65 00.RFT5** VINYL TILE
- **REPRESENTS:** 18" X 18" LVT
- **09 64 66.WGM** SPORTS WOOD FLOORING
- **09 65 13.RSR** RUBBER STAIR TREADS/RISER
- **09 65 66.PRA1** RUBBER FLOORING, ROLLS
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- **09 66 13.TZ1** TERRAZZO FLOORING
- **09 66 13.TZ2** TERRAZZO FLOORING
- **09 66 13.TZ3** TERRAZZO FLOORING
- **09 66 13.TZ4** TERRAZZO FLOORING
- **09 67 00.FF1** EPOXY FLOORING

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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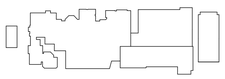
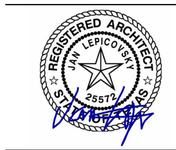
ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA E FINISH FLOOR PLAN

A-903E

Plot Stamp:
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LEVEL 3 - AREA F FINISH FLOOR PLAN
A-903F
FOR BLUEBEAM LABELING/DOOR:

0"
1"

FLOOR FINISH LEGEND

03 35 00.SC1 SEALED CONCRETE	**09 65 00.RFT1** VINYL TILE	**09 65 00.RFT5** VINYL TILE	**09 65 66.PRA1** RUBBER FLOORING, ROLLS	**09 66 13.TZ3** TERRAZZO FLOORING
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FLOOR FINISH LEGEND HORIZONTAL
1/8" = 1'-0"

GENERAL FLOOR FINISH NOTES

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10. FOR TYPICAL LVT PATTERN AT CLASSROOMS REFER TO DETAIL **2/A-912**



06 LEVEL 3 - AREA B FLOOR FINISH PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA F FINISH FLOOR PLAN

A-903F

0"

1"

WALL FINISH SCHEDULE
A-911
FOR BLUEBEAM LABELING/OCR:

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
LEVEL 1							
113	CENTRAL PLANT (NIC)	-	-	-	-	-	
1100	MP SPACE	-	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS FOR WALL FINISHES
1101	STAIR 09	RB1	P1	P1	P3	P1	
1102	RESOURCE	RB1	P1	P1	P1	P1	0527
1103	LIFE SKILLS	RB1	P1	P1	P1	P1	0527
1104	BEHAVIOR ROOM	RB1	P1	P1	P1	P1	0527
1104.1	STORAGE	RB1	P1	P1	P1	P1	0527
1105	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1106	IDF	RB1	P1	P1	P1	P1	0527
1107	MOOK LIVING	RB1	P2	P1	P2	P1	0527
1107.1	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1107.2	STORAGE	RB1	P1	P1	P1	P1	
1108	BEHAVIOR ROOM	RB1	P2	P1	P2	P1	0527
1108.1	STORAGE	RB1	P1	P1	P1	P1	0527
1109	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1110	STAFF RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1111	18+ STUDENTS	RB1	P1	P1	P1	P1	0527
1112	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1113	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
1114	LIFE SKILLS	RB1	P2	P1	P2	P1	0527
1114.1	LIFT	RB1	P1	P1	P1	P1	0527
1115	ELECTRICAL	RB1	P1	P1	P1	P1	
1116	LIFE SKILLS	RB1	P2	P1	P2	P1	0527
1116.1	STORAGE	RB1	P1	P1	P1	P1	0527
1117	MECHANICAL	RB1	P2	P2	P2	P2	0527
1118	STAIR 07	RB1	P1	P1	P1	P1	0527
1119	RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1120	DIAG.	RB1	P1	P1	P1	P1	0527
1121	COORDINATOR	RB1	P1	P1	P1	P1	0527
1122	SPEECH	RB1	P1	P1	P1	P1	0527
1123	ARD CONFERENCE	RB1	P1	P1	P1	P1	0527
1123.1	STORAGE	RB1	P1	P1	P1	P1	0527
1124	LSSP	RB1	P1	P1	P1	P1	0527
1125	CLERK	RB1	P1	P1	P1	P1	0527
1126	ELEV.	-					0527, SELECTIONS TO MATCH PHASE 2
1127	SCHOOL BOOK ROOM	RB1	P1	P1	P1	P1	0527
1128	ELECTRICAL	RB1	P1	P1	P1	P1	0527
1129	IDF	RB1	P1	P1	P1	P1	0527
1131	TEMP BAND	RB1	P1	P1	P1	P1	AWP AT WALLS
1131.3	TEMP CHOIR	RB1	P1	P1	P1	P1	AWP AT WALLS
1131C	STAIRS 08	-	P1	P1	P1	P1	RUBBER TREADS AND STEPS
1132	TESTING / STORAGE	RB1	P1	P1	P1	P1	0527
1132.1	TESTING OFFICE	RB1	P1	P1	P1	P1	
1133	PLC / WORK ROOM	RB1	P1	P1	P1	P1	0527
1134	COMPUTER LAB	RB1	P1	P2	P1	P2	
1135	VESTIBULE	-	-	TYP WAINSCOT	-	TYP WAINSCOT	REFER TO INTERIOR ELEVATIONS
1136	TEMPORARY TECHNICAL CLASSROOM	RB1	P1	P2	P1	P2	
1137	TECHNICAL STORAGE	RB1	P1	P1	P1	P1	0527
1138	IDF	RB1	P1	P1	P1	P1	0527
1139	AP OFFICE	RB1	P1	P1	P1	P1	0527
1140	ENGLISH 13	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1141	ENGLISH #1	RB1	P2	P1	P1	P1	0527
1142	BREAKROOM	RB1	P1	P1	P1	P1	0527
1142.1	ELECTRICAL	RB1	P1	P1	P1	P1	
1143	ENGLISH #2	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1144	STAIR 06	RB1	P1	P1	P1	P1	0527
1145	ENGLISH #12	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1146	ENGLISH #3	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1147	ENGLISH #4	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1148	MECHANICAL	RB1	P1	P1	P1	P1	0527
1149	ENGLISH #5	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1150	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
1151	ENGLISH #6	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1152	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1153	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1154	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1155	ENGLISH #11	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1156	ENGLISH #7	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1157	ENGLISH #10	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
1158	ENGLISH #8	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1158.1	STORAGE	RB1	P1	P1	P1	P1	0527
1159	ENGLISH #9	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1160	ELECTRICAL	RB1	P1	P1	P1	P1	0527
1161	STAIR 05	RB1	P1	P1	P2	P1	
1162	IDF	RB1	P1	P1	P1	P1	
1500	GYM LOBBY	-	REFER TO ELEVATION	-	REFER TO ELEVATION	-	0527
1501	WOMEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1502	GYM STORAGE	RB1	P1	P1	P1	P1	
1503	ELECTRICAL / IDF	RB1	P1	P1	P1	P1	0527
1504	TICKET BOOTH	RB1	P10	P10	P10	P10	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1504.1	TICKET BOOTH STORAGE	RB1	P1	P1	P1	P1	
1505	CONCESSIONS	FF1	P10	P10	P10	P10	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1505.1	CONCESSION STORAGE	RB1	P1	P1	P1	P1	
1506	MEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1507	COMPETITION GYM	RB3	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	0527
1509	STAIR 01	FF1	P1	P1	-	P1	RUBBER TREADS AND STEPS
1510	OFFICIAL FLEX OFFICE	RB1	P1	P1	P1	P1	0527
1511	FREIGHT						0527
1511.1	VISITOR / FLEX ROOM	RB1	P10	P10	P10	P10	
1512	ELECTRICAL	RB1	P1	P1	P1	P1	0527
1513	VOLLEYBALL/BASKETBALL STORAGE	RB1	P1	P1	P1	P1	0527
1514	STAIR 02	FF1	P1	P1	-	P1	RUBBER TREADS AND STEPS
1515	MAIN WEIGHT ROOM	RB2	P10	P	P10	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1516	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1517	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1518	OFFICE	RB1	P1	P1	P1	P1	0527
1519	TEAM ROOM	RB1	P1	P1	P1	P1	0527
1520	TRAINERS	RB1	P1	P1	P1	P1	0527
1520.1	CART STORAGE	RB1	P1	P1	P1	P1	0527
1521	OFFICE	RB1	P1	P1	P1	P1	0527
1522	OFFICE	RB1	P1	P1	P1	P1	0527
1523	OFFICE	RB1	P1	P1	P1	P1	0527
1524	GIRLS LAUNDRY	FF1	P1	P1	P1	P1	0527
1524.1	IDF	RB1	P1	P1	P1	P1	
1524.2	FLEX OFF.	RB1	P1	P1	P1	P1	
1525	OFFICE	RB1	P1	P1	P1	P1	0527
1526	TEAM ROOM	RB1	P1	P2	P1	P2	0527
1527	CUSTODIAL	RB1	P1	P1	P1	P1	0527, FRP ON WALL AT MOP SINK
1528	HEAD COACH GIRLS SPORTS	RB1	P1	P1	P1	P1	0527
1529	GIRLS SPORTS COACHES OFFICE	RB1	P1	P1	P1	P1	0527
1529.1	W COACHES LOCKER/SHOWER	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1529.2	COACHES RR	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1530	GIRLS PE	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1530.1	GIRLS PE RR& SHOWER	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1531	GIRLS BASKETBALL	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1531.1	STORAGE	RB1	P2	P2	P2	P2	
1532	GIRLS ATHLETIC RR / SHOWER	FF1	P	P	P	P	0527, ACCENT PAINT
1533	TRACK / CROSS COUNTRY	FF1	P2	P2	P2	P2	0527
1533.1	STORAGE	RB1	P2	P2	P2	P2	0527
1534	GIRLS VOLLEYBALL	FF1	P	P	P	P	0527, ACCENT PAINT
1534.1	STORAGE	RB1	P2	P2	P2	P2	0527, ACCENT PAINT
1535	CHEERLEADING	FF1	P2	P2	P2	P2	0527
1535.1	STORAGE	RB1	P2	P2	P2	P2	0527
1536	STAIR 04		P2	P2	P2	P2	0527, RUBBER TREADS AND RI8ERS
1537	GIRLS GOLF	FF1	P	P	P	P	0527
1538	GIRLS SOCCER	FF1	P	P	P	P	0527
1538.1	STORAGE	RB1	P2	P2	P2	P2	0527
1539	HEAD COACH BOYS SPORTS	RB1	P1	P1	P1	P1	0527
1540	BOYS PE	FF1	P	P	P	P	0527
1540.1	BOYS PE RR & SHOWER	FF1	P	P	P	P	0527
1541	BOYS SPORTS COACHES OFFICE	RB1	P	P	P	P	0527
1541.1	M COACHES LOCKER/SHOWER	FF1	P	P	P	P	0527, ACCENT PAINT
1541.2	COACHES RR	FF1	P	P	P	P	0527, ACCENT PAINT
1542	BOYS ATHLETIC RR / SHOWER	FF1	P	P	P	P	0527, ACCENT PAINT
1543	BOYS LAUNDRY	FF1	P2	P2	P2	P2	0527
1544	PUMP ROOM	RB1	P1	P1	P1	P1	0527

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
1545	IDF	RB1	P1	P1	P1	P1	0527
1546	BOYS BASKETBALL	FF1	P	P	P	P	0527, ACCENT PAINT
1546.1	STORAGE	RB1	P1	P1	P1	P1	0527
1547	BOYS GOLF STOR.						
1548	MECHANICAL	RB1	P1	P1	P1	P1	0527
1549	BOYS GOLF & CROSS COUNTRY	FF1	P	P	P	P	0527, ACCENT PAINT
1550	STAIR 03		P2	P2	P2	P2	0527,
1550.1	MECHANICAL	RB1	P1	P1	P1	P1	0527
C1000	MAIN STREET	-	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	0527
C1100.1	CORRIDOR	-	-	REFER TO ELEVATION	-	REFER TO ELEVATION	0527
C1100.2	CORRIDOR	-	-	REFER TO ELEVATION	-	REFER TO ELEVATION	0527
C1103	CORRIDOR	RB1	P1	P1	P1	P1	
C1508	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.1	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.2	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.3	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.4	CORRIDOR	FF1	P2	P2	P2	P2	0527
LEVEL 2							
2101	STAIR 09	RB1	P1	-	P1	P1	
2102	SPECIALIST	RB1	P1	P1	P1	P1	
2103	ELECTRICAL	RB1	P1	P1	P1	P1	
2104	IDF	RB1	P1	P1	P1	P1	
2105	MATH CLASS #1	RB1	P1	P1	P2	P1	
2105.1	STORAGE	RB1	P1	P1	P1	P1	
2106	MATH CLASS #2	RB1	P1	P1	P2	P1	
2107	MATH CLASS #3	RB1	P1	P1	P1	P1	
2108	MATH CLASS #4	RB1	P2	P1	P1	P1	
2109	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2,
2110	STAFF RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2111	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2112	MATH CLASS #5	RB1	P2	P1	P1	P1	
2113	COLLAB. FLEX ROOM	-	TYPICAL WAINSCOT	-	TYP WAINSCOT	-	
2113.1	BALCONY	-	-	-	-	-	
2114	MATH CLASS #6	RB1	P1	P1	P2	P1	
2115	MECHANICAL	RB1	P1	P1	P1	P1	
2116	MATH CLASS #7	RB1	P2	P1	P1	P1	
2117	STAIR 07	RB1	P1	P1	P1	P1	
2118	CUSTODIAL	RB1	P1	P1	P1	P1	FRP ON WALL AT MOP SINK
2119	MATH CLASS #8	RB1	P1	P1	P2	P1	
2120	ELEV.	-	-	-	-	-	
2121	COMPUTER LAB	RB1	P2	P1	P2	P1	
2122	MATH CLASS #9	RB1	P1	P1	P2	P1	
2123	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	
2124	MECH.	RB1	P1	P1	P1	P1	
2124.1	STAIR 08	-	P1	P1	P1	P1	RUBBER TREADS AND RISERS
2125	IDF	RB1	P1	P1	P1	P1	
2126	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
2127	ELECTRICAL	RB1	P1	P1	P1	P1	
2128	WORK RM / PLC	RB1	P1	P1	P1	P1	
2129	MATH CLASS #10	RB1	P1	P2	P1	P1	
2130	MATH CLASS #11	RB1	P1	P2	P1	P1	
2131	MATH CLASS #12	RB1	P1	P1	P1	P2	
2132	MATH CLASS #13	RB1	P1	P2	P1	P1	COUNT 2
2133	SOCIAL STUDIES #13	RB1	P1	P1	P1	P2	COUNT 2
2134	SOCIAL STUDIES #12	RB1	P1	P1	P1	P1	COUNT 2
2135	AP SUITE	RB1	P1	P1	P1	P1	
2135.1	AP OFFICE	RB1	P1	P1	P1	P1	
2136	ELECTRICAL	RB1	P1	P1	P1	P1	
2137	IDF	RB1	P1	P1	P1	P1	
2138	SRO	RB1	P1	P1	P1	P1	
2139	SOCIAL STUDIES #11	RB1	P2	P1	P1	P1	COUNT 2
2140	SOCIAL STUDIES #1	RB1	P1	P1	P2	P1	COUNT 2
2141	STAIR 06		P1	P1	P1	P1	RUBBER TREADS AND RISERS
2142	SOCIAL STUDIES #10	RB1	P1	P1	P2	P1	COUNT 2
2143	SOCIAL STUDIES #2	RB1	P2	P1	P1	P1	COUNT 2
2144	SOCIAL STUDIES #3	RB1	P1	P1	P2	P1	COUNT 2
2145	MECHANICAL	RB1	P1	P1	P1	P1	
2146	SOCIAL STUDIES #4	RB1	P2	P1	P1	P1	COUNT 2
2147	COLLAB. FLEX ROOM						
2147.1	BALCONY						
2148	SOCIAL STUDIES #5	RB1	P1	P1	P1	P2	COUNT 2
2149	BOYS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2150	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
2151	GIRLS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2152	SOCIAL STUDIES #9	RB1	P1	P1	P1	P2	COUNT 2
2153	SOCIAL STUDIES #6	RB1	P2	P1	P1	P1	COUNT 2
2154	SOCIAL STUDIES 8	RB1	P1	P1	P1	P2	COUNT 2
2155	SOCIAL STUDIES #7	RB1	P1	P1	P1	P2	COUNT 2
2155.1	STORAGE	RB1	P1	P1	P1	P1	
2156	SPECIALIST	RB1	P1	P1	P1	P1	
2157	STAIR 05		P1	P1	P1	P1	
2158	ELECTRICAL	RB1	P1	P1	P1	P1	
2159	IDF	RB1	P1	P1	P1	P1	
2500	EQUIPMENT PLATFORM	RB1	P1	P1	P1	P1	
2502	STAIR 01		P	P	P	P	COUNT 2, RUBBER AT TREADS AND RISERS
2503	CUSTODIAL	RB1	P1	P1	P1	P1	FRP AT MOP SINK
2504	FREIGHT						
2505	STAIR 10	RB1	P2	P2	P2	P2	
2506	TEAM LOUNGE	RB1	P2	P2	P2	P2	
2507	MEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	
2508	WOMEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	
2509	STAIR 02		P	P	P	P	COUNT 2, RUBBER AT TREADS AND RISERS
2510	AUXILIARY GYM A	RB3	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	ACCENT PAINT TREATMENT, WALLS PADS
2510.1	P.E. STORAGE	RB1	P1	P1	P1	P1	
2510.2	IDF	RB1	P1	P1	P1	P1	
2511	TESTING STORAGE	RB1	P1	P1	P1	P1	
2512.1	ELECTRICAL	RB1	P1	P1	P1	P1	
2512.2	MECHANICAL	RB1	P1	P1	P1	P1	
2512.3	STAIRS 03	RB1	P2	P2	P2	P2	COUNT 2
2513	STAIRS 04	RB1	P2	P2	P2	P2	COUNT 2
2513	AUXILIARY GYM B	RB3	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	ACCENT PAINT TREATMENT, WALLS PADS
C2100.1	CORRIDOR	-	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	
C2100.3	ELEVATED WALKWAY		P1	P1	P1	P1	
C2501	CORRIDOR	RB1	P1	P1	P1	P1	COUNT 2
C2501.1	CORRIDOR	RB1	P1	P1	P1	P1	COUNT 2
C2512	SKYBRIDGE	-	-	-	-	-	
C2700	CORRIDOR		TYP WAINSCOT	-	TYP WAINSCOT	-	
LEVEL 3							
1000	MULTI-PURPOSE						
1132D	STAIR 10		P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
1132E	FREIGHT						
3101	STAIR 09		P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
3102	FORENSIC LAB	RB1	P1	P1	P1	P2	
3102.1	PREP	RB1	P1	P1	P1	P1	
3103	STORAGE	RB1	P1	P1	P1	P1	COUNT 2
3104	BIO LAB	RB1	P1	P2	P1	P1	
3104.1	PREP	RB1	P1	P1	P1	P1	
3105	ELECTRICAL	RB1	P1	P1	P1	P1	
3106	IDF	RB1	P1	P1	P1	P1	
3107	ASTRONOMY CLASS	RB1	P1	P1	P2	P2	
3108	BIO LAB	RB1	P1	P2	P1	P1	
3109	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3110	STAFF RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3111	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3112	BIO LAB	RB1	P1	P2	P1	P1	
3113	MECHANICAL	RB1	P1	P1	P1	P1	COUNT 2

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
3114	STAIR 07	RB1	P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
3115	SRO	RB1	P1	P1	P1	P1	
3116	SPANISH 1	RB1	P2	P1	P1	P1	
3116.1	ELEV. SWITCH	RB1	P1	P1	P1	P1	
3117	CUSTODIAL	RB1	P1	P1	P1	P1	COUNT 2
3118	ELEV.						
3119	BIO LAB	RB1	P1	P2	P1	P1	
3119.1	SHARED PREP	RB1	P1	P1	P1	P1	
3120	STORAGE	RB1	P1	P1	P1	P1	
3120.1	STORAGE	RB1	P1	P1	P1	P1	
3121	STORAGE	RB1	P1	P1	P1	P1	
3122	SPANISH 2	RB1	P1	P2	P1	P1	COUNT 2
3123	IDF	RB1	P1	P1	P1	P1	
3124	ELEC.	RB1	P1	P1	P1	P1	COUNT 2
3125	SPANISH 3	RB1	P1	P2	P1	P1	
3126	SPANISH 4	RB1	P1	P1	P1	P2	
3127	SPANISH 5	RB1	P1	P1	P1	P2	
3128	SPANISH 6	RB1	P1	P1	P1	P2	
3129	SPANISH 7	RB1	P1	P1	P1	P2	
3130	MECH. ACCESS	RB1	P1	P1	P1	P1	
3131	IDF	RB1	P1	P1	P1	P1	
3132	ANATOMY LAB	RB1	P2	P1	P1	P1	
3132	STAIR 03	RB1	P1	P1	P1	P1	
3132.1	PREP	RB1	P1	P1	P1	P1	
3133	ELEC.	RB1	P1	P1	P1	P1	
3134	PLC / WORK ROOM	RB1	P1	P1	P1	P1	COUNT 2
3135	AP BIO LAB	RB1	P1	P1	P1	P2	
3135.1	PREP	RB1	P1	P1	P1	P1	
3136	STAIR 06	RB1	P1	P1	P1	P1	
3137	FRENCH	RB1	P2	P1	P1	P1	COUNT 2
3138	STORAGE	RB1	P1	P1	P1	P1	
3139	MECH.	RB1	P1	P1	P1	P1	COUNT 2
3140	CHEMISTRY LAB	RB1	P1	P1	P1	P2	
3141	CHEMISTRY LAB	RB1	P1	P1	P2	P1	
3141.1	PREP	RB1	P1	P1	P1	P1	
3142	BOYS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3143	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3144	GIRLS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3145	IPC	RB1	P1	P1	P2	P1	
3145.1	PREP	RB1	P1	P1	P1	P1	
3146	IDF	RB1	P1	P1	P1	P1	
3147	CHEMISTRY LAB	RB1	P1	P1	P1	P2	
3147.1	STORAGE	RB1	P1	P1	P1	P1	
3148	ELECTRICAL	RB1	P1	P1	P1	P1	
3149	PHYSICS LAB	RB1	P1	P2	P1	P1	
3150	STORAGE	RB1	P1	P1	P1	P1	
3151	STAIRS 05	RB1	P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
3501	MECH.	RB1	P1	P1	P1	P1	
3502	STOR.	RB1	P1	P1	P1	P1	
3503	MECH.	RB1	P1	P1	P1	P1	
3700A	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
3700B	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
C3700	CORRIDOR	-	TYP WAINSCOT	-	TYP WAINSCOT		
C3700.1	CORRIDOR	-	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	
MEZZ / BOD							
4000	MECH.	RB1	P1	P1	P1	P1	
Grand total							

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

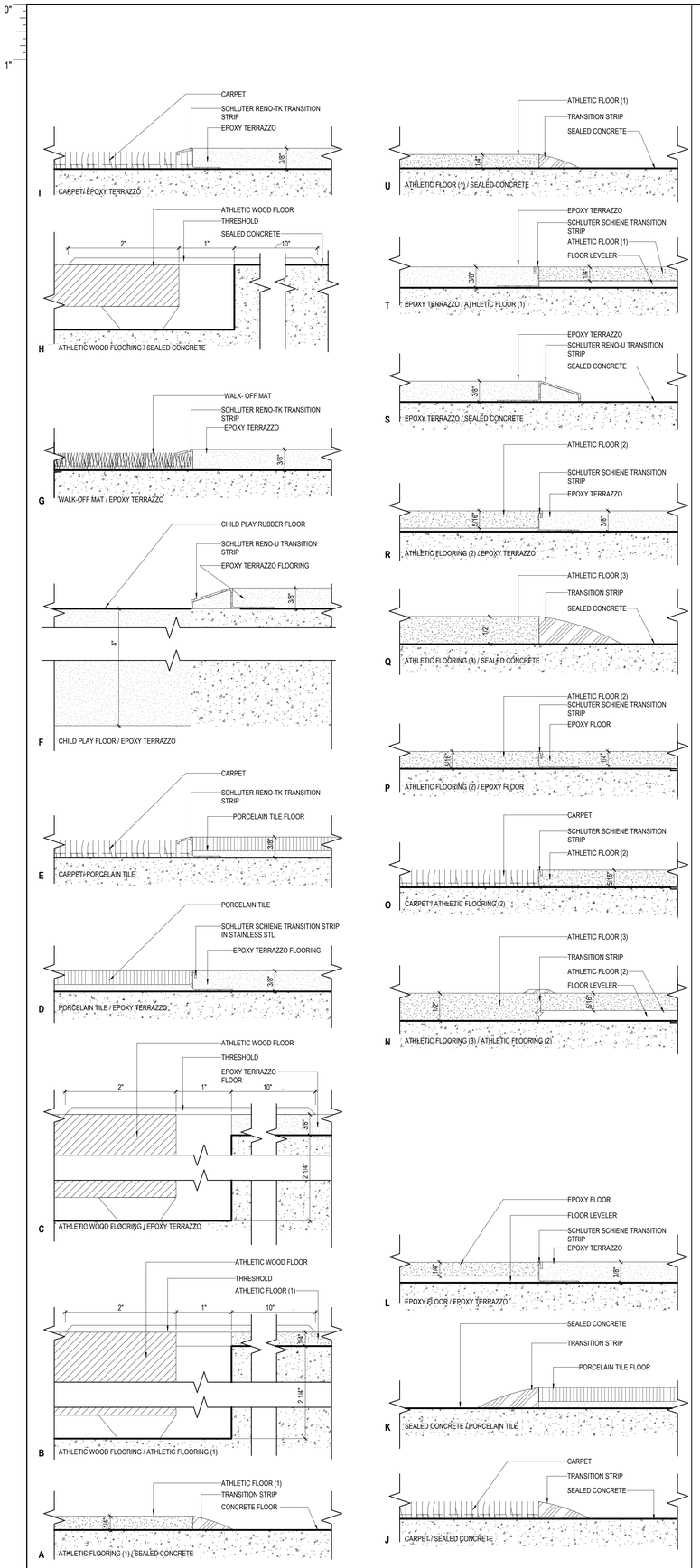
DRAWING HISTORY

No.	Description	Date

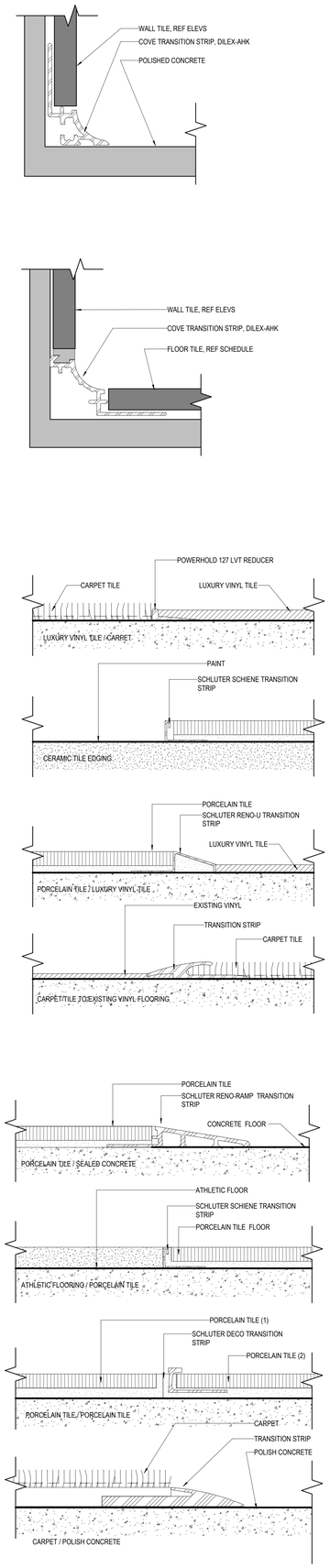
CHECKED BY: Checker

**D

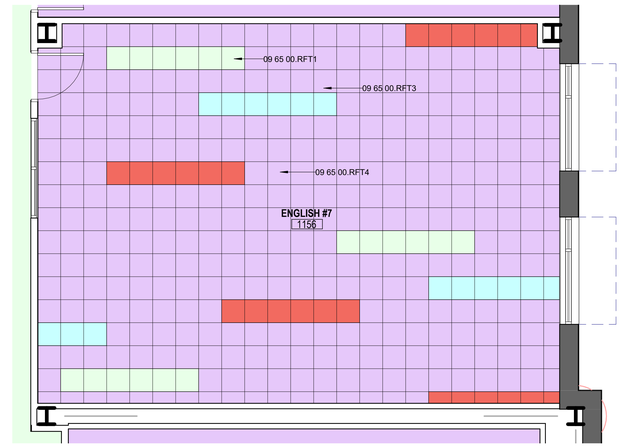
INTERIOR FINISH DETAILS
A-912
FOR BLUEBEAM LABELING/DOOR:



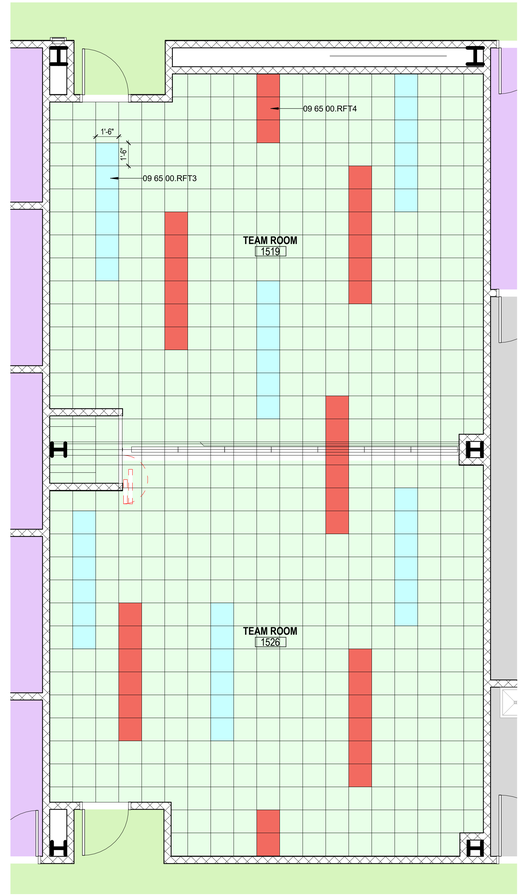
06 TYP INT FLOOR TRANSITIONS
12" = 1'-0"



04 INT TRANSITIONS
12" = 1'-0"



2 TYPICAL LVT PATTERN AT CLASSROOM
1/4" = 1'-0"



1 1519 & 1526 - LVT PATTERN
1/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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25572
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

INTERIOR FINISH DETAILS

A-912

Plot Stamp:
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0"
1"

WALL FINISH SCHEDULE
A-921
FOR BLUEBEAM LABELING/OCR:

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
LEVEL 1							
113	CENTRAL PLANT (NIC)	-	-	-	-	-	
1100	MP SPACE	-	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS FOR WALL FINISHES
1101	STAIR 09	RB1	P1	P1	P3	P1	
1102	RESOURCE	RB1	P1	P1	P1	P1	0527
1103	LIFE SKILLS	RB1	P1	P1	P1	P1	0527
1104	BEHAVIOR ROOM	RB1	P1	P1	P1	P1	0527
1104.1	STORAGE	RB1	P1	P1	P1	P1	0527
1105	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1106	IDF	RB1	P1	P1	P1	P1	0527
1107	MOCK LIVING	RB1	P2	P1	P2	P1	0527
1107.1	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1107.2	STORAGE	RB1	P1	P1	P1	P1	
1108	BEHAVIOR ROOM	RB1	P2	P1	P2	P1	0527
1108.1	STORAGE	RB1	P1	P1	P1	P1	0527
1109	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1110	STAFF RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1111	18+ STUDENTS	RB1	P1	P1	P1	P1	0527
1112	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1113	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
1114	LIFE SKILLS	RB1	P2	P1	P2	P1	0527
1114.1	LIFT	RB1	P1	P1	P1	P1	0527
1115	ELECTRICAL	RB1	P1	P1	P1	P1	
1116	LIFE SKILLS	RB1	P2	P1	P2	P1	0527
1116.1	STORAGE	RB1	P1	P1	P1	P1	0527
1117	MECHANICAL	RB1	P2	P2	P2	P2	0527
1118	STAIR 07	RB1	P1	P1	P1	P1	0527
1119	RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1120	DIAG.	RB1	P1	P1	P1	P1	0527
1121	COORDINATOR	RB1	P1	P1	P1	P1	0527
1122	SPEECH	RB1	P1	P1	P1	P1	0527
1123	ARD CONFERENCE	RB1	P1	P1	P1	P1	0527
1123.1	STORAGE	RB1	P1	P1	P1	P1	0527
1124	LSSP	RB1	P1	P1	P1	P1	0527
1125	CLERK	RB1	P1	P1	P1	P1	0527
1126	ELEV.	-					0527, SELECTIONS TO MATCH PHASE 2
1127	SCHOOL BOOK ROOM	RB1	P1	P1	P1	P1	0527
1128	ELECTRICAL	RB1	P1	P1	P1	P1	0527
1129	IDF	RB1	P1	P1	P1	P1	0527
1131	TEMP BAND	RB1	P1	P1	P1	P1	AWP AT WALLS
1131.3	TEMP CHOIR	RB1	P1	P1	P1	P1	AWP AT WALLS
1131C	STAIRS 08	-	P1	P1	P1	P1	RUBBER TREADS AND STEPS
1132	TESTING / STORAGE	RB1	P1	P1	P1	P1	0527
1132.1	TESTING OFFICE	RB1	P1	P1	P1	P1	
1133	PLC / WORK ROOM	RB1	P1	P1	P1	P1	0527
1134	COMPUTER LAB	RB1	P1	P2	P1	P2	
1135	VESTIBULE	-	-	TYP WAINSCOT	-	TYP WAINSCOT	REFER TO INTERIOR ELEVATIONS
1136	TEMPORARY TECHNICAL CLASSROOM	RB1	P1	P2	P1	P2	
1137	TECHNICAL STORAGE	RB1	P1	P1	P1	P1	0527
1138	IDF	RB1	P1	P1	P1	P1	0527
1139	AP OFFICE	RB1	P1	P1	P1	P1	0527
1140	ENGLISH 13	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1141	ENGLISH #1	RB1	P2	P1	P1	P1	0527
1142	BREAKROOM	RB1	P1	P1	P1	P1	0527
1142.1	ELECTRICAL	RB1	P1	P1	P1	P1	
1143	ENGLISH #2	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1144	STAIR 06	RB1	P1	P1	P1	P1	0527
1145	ENGLISH #12	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1146	ENGLISH #3	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1147	ENGLISH #4	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1148	MECHANICAL	RB1	P1	P1	P1	P1	0527
1149	ENGLISH #5	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1150	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
1151	ENGLISH #6	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1152	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1153	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1154	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1155	ENGLISH #11	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1156	ENGLISH #7	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1157	ENGLISH #10	RB1	P2	P1	P1	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1158	ENGLISH #8	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1158.1	STORAGE	RB1	P1	P1	P1	P1	0527
1159	ENGLISH #9	RB1	P1	P1	P2	P1	0527, REFER TO TYPICAL TEACHING WALL ELEVATION
1160	ELECTRICAL	RB1	P1	P1	P1	P1	0527
1161	STAIR 05	RB1	P1	P1	P2	P1	
1162	IDF	RB1	P1	P1	P1	P1	
1500	GYM LOBBY	-	REFER TO ELEVATION	-	REFER TO ELEVATION	-	0527
1501	WOMEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1502	GYM STORAGE	RB1	P1	P1	P1	P1	
1503	ELECTRICAL / IDF	RB1	P1	P1	P1	P1	0527
1504	TICKET BOOTH	RB1	P10	P10	P10	P10	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1504.1	TICKET BOOTH STORAGE	RB1	P1	P1	P1	P1	
1505	CONCESSIONS	FF1	P10	P10	P10	P10	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1505.1	CONCESSION STORAGE	RB1	P1	P1	P1	P1	
1506	MEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1507	COMPETITION GYM	RB3	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	0527
1509	STAIR 01	FF1	P1	P1	-	P1	RUBBER TREADS AND STEPS
1510	OFFICIAL FLEX OFFICE	RB1	P1	P1	P1	P1	0527
1511	FREIGHT						0527
1511.1	VISITOR / FLEX ROOM	RB1	P10	P10	P10	P10	
1512	ELECTRICAL	RB1	P1	P1	P1	P1	0527
1513	VOLLEYBALL/BASKETBALL STORAGE	RB1	P1	P1	P1	P1	0527
1514	STAIR 02	FF1	P1	P1	-	P1	RUBBER TREADS AND STEPS
1515	MAIN WEIGHT ROOM	RB2	P10	P	P10	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1516	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1517	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	0527, REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
1518	OFFICE	RB1	P1	P1	P1	P1	0527
1519	TEAM ROOM	RB1	P1	P1	P1	P1	0527
1520	TRAINERS	RB1	P1	P1	P1	P1	0527
1520.1	CART STORAGE	RB1	P1	P1	P1	P1	0527
1521	OFFICE	RB1	P1	P1	P1	P1	0527
1522	OFFICE	RB1	P1	P1	P1	P1	0527
1523	OFFICE	RB1	P1	P1	P1	P1	0527
1524	GIRLS LAUNDRY	FF1	P1	P1	P1	P1	0527
1524.1	IDF	RB1	P1	P1	P1	P1	
1524.2	FLEX OFF.	RB1	P1	P1	P1	P1	
1525	OFFICE	RB1	P1	P1	P1	P1	0527
1526	TEAM ROOM	RB1	P1	P2	P1	P2	0527
1527	CUSTODIAL	RB1	P1	P1	P1	P1	0527, FRP ON WALL AT MOP SINK
1528	HEAD COACH GIRLS SPORTS	RB1	P1	P1	P1	P1	0527
1529	GIRLS SPORTS COACHES OFFICE	RB1	P1	P1	P1	P1	0527
1529.1	W COACHES LOCKER/SHOWER	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1529.2	COACHES RR	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1530	GIRLS PE	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
1530.1	GIRLS PE RR& SHOWER	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1531	GIRLS BASKETBALL	FF1	P	P	P	P	0527, REFER TO INTERIOR ELEVATION FOR ACCENT PAINT
1531.1	STORAGE	RB1	P2	P2	P2	P2	
1532	GIRLS ATHLETIC RR / SHOWER	FF1	P	P	P	P	0527, ACCENT PAINT
1533	TRACK / CROSS COUNTRY	FF1	P2	P2	P2	P2	0527
1533.1	STORAGE	RB1	P2	P2	P2	P2	0527
1534	GIRLS VOLLEYBALL	FF1	P	P	P	P	0527, ACCENT PAINT
1534.1	STORAGE	RB1	P2	P2	P2	P2	0527, ACCENT PAINT
1535	CHEERLEADING	FF1	P2	P2	P2	P2	0527
1535.1	STORAGE	RB1	P2	P2	P2	P2	0527
1536	STAIR 04		P2	P2	P2	P2	0527, RUBBER TREADS AND RIBERS
1537	GIRLS GOLF	FF1	P	P	P	P	0527
1538	GIRLS SOCCER	FF1	P	P	P	P	0527
1538.1	STORAGE	RB1	P2	P2	P2	P2	0527
1539	HEAD COACH BOYS SPORTS	RB1	P1	P1	P1	P1	0527
1540	BOYS PE	FF1	P	P	P	P	0527
1540.1	BOYS PE RR & SHOWER	FF1	P	P	P	P	0527
1541	BOYS SPORTS COACHES OFFICE	RB1	P	P	P	P	0527
1541.1	M COACHES LOCKER/SHOWER	FF1	P	P	P	P	0527, ACCENT PAINT
1541.2	COACHES RR	FF1	P	P	P	P	0527, ACCENT PAINT
1542	BOYS ATHLETIC RR / SHOWER	FF1	P	P	P	P	0527, ACCENT PAINT
1543	BOYS LAUNDRY	FF1	P2	P2	P2	P2	0527
1544	PUMP ROOM	RB1	P1	P1	P1	P1	0527
1545	IDF	RB1	P1	P1	P1	P1	0527
1546	BOYS BASKETBALL	FF1	P	P	P	P	0527, ACCENT PAINT
1546.1	STORAGE	RB1	P1	P1	P1	P1	0527
1547	BOYS GOLF STOR.						
1548	MECHANICAL	RB1	P1	P1	P1	P1	0527
1549	BOYS GOLF & CROSS COUNTRY	FF1	P	P	P	P	0527, ACCENT PAINT
1550	STAIR 03		P2	P2	P2	P2	0527,
1550.1	MECHANICAL	RB1	P1	P1	P1	P1	0527
C1000	MAIN STREET	-	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	REFER TO ELEVATION	0527
C1100.1	CORRIDOR	-	-	REFER TO ELEVATION	-	REFER TO ELEVATION	0527
C1100.2	CORRIDOR	-	-	REFER TO ELEVATION	-	REFER TO ELEVATION	0527
C1103	CORRIDOR	RB1	P1	P1	P1	P1	
C1508	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.1	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.2	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.3	CORRIDOR	FF1	P2	P2	P2	P2	0527
C1508.4	CORRIDOR	FF1	P2	P2	P2	P2	0527
LEVEL 2							
2101	STAIR 09	RB1	P1	-	P1	P1	
2102	SPECIALIST	RB1	P1	P1	P1	P1	
2103	ELECTRICAL	RB1	P1	P1	P1	P1	
2104	IDF	RB1	P1	P1	P1	P1	
2105	MATH CLASS #1	RB1	P1	P1	P2	P1	
2105.1	STORAGE	RB1	P1	P1	P1	P1	
2106	MATH CLASS #2	RB1	P1	P1	P2	P1	
2107	MATH CLASS #3	RB1	P1	P1	P2	P1	
2108	MATH CLASS #4	RB1	P2	P1	P1	P1	
2109	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2,
2110	STAFF RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2111	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2112	MATH CLASS #5	RB1	P2	P1	P1	P1	
2113	COLLAB. FLEX ROOM	-	TYPICAL WAINSCOT	-	TYP WAINSCOT	-	
2113.1	BALCONY	-	-	-	-	-	
2114	MATH CLASS #6	RB1	P1	P1	P2	P1	
2115	MECHANICAL	RB1	P1	P1	P1	P1	
2116	MATH CLASS #7	RB1	P2	P1	P1	P1	
2117	STAIR 07	RB1	P1	P1	P1	P1	
2118	CUSTODIAL	RB1	P1	P1	P1	P1	FRP ON WALL AT MOP SINK
2119	MATH CLASS #8	RB1	P1	P1	P2	P1	
2120	ELEV.	-	-	-	-	-	
2121	COMPUTER LAB	RB1	P2	P1	P2	P1	
2122	MATH CLASS #9	RB1	P1	P1	P2	P1	
2123	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	
2124	MECH.	RB1	P1	P1	P1	P1	
2124.1	STAIR 08	-	P1	P1	P1	P1	RUBBER TREADS AND RISERS
2125	IDF	RB1	P1	P1	P1	P1	
2126	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	REFER TO RR ELEVATIONS FOR TYP WALL TILE PATTERN
2127	ELECTRICAL	RB1	P1	P1	P1	P1	
2128	WORK RM / PLC	RB1	P1	P1	P1	P1	
2129	MATH CLASS #10	RB1	P1	P2	P1	P1	
2130	MATH CLASS #11	RB1	P1	P2	P1	P1	
2131	MATH CLASS #12	RB1	P1	P1	P1	P2	

WALL FINISH SCHEDULE

ROOM DATA		BASE	WALL FINISHES				
NUMBER	NAME	FINISH	NORTH	EAST	SOUTH	WEST	COMMENTS
2132	MATH CLASS #13	RB1	P1	P2	P1	P1	COUNT 2
2133	SOCIAL STUDIES #13	RB1	P1	P1	P1	P2	COUNT 2
2134	SOCIAL STUDIES #12	RB1	P1	P2	P1	P1	COUNT 2
2135	AP SUITE	RB1	P1	P1	P1	P1	
2135.1	AP OFFICE	RB1	P1	P1	P1	P1	
2136	ELECTRICAL	RB1	P1	P1	P1	P1	
2137	IDF	RB1	P1	P1	P1	P1	
2138	SRO	RB1	P1	P1	P1	P1	
2139	SOCIAL STUDIES #11	RB1	P2	P1	P1	P1	COUNT 2
2140	SOCIAL STUDIES #1	RB1	P1	P1	P2	P1	COUNT 2
2141	STAIR 06		P1	P1	P1	P1	RUBBER TREADS AND RISERS
2142	SOCIAL STUDIES #10	RB1	P1	P1	P2	P1	COUNT 2
2143	SOCIAL STUDIES #2	RB1	P2	P1	P1	P1	COUNT 2
2144	SOCIAL STUDIES #3	RB1	P1	P1	P2	P1	COUNT 2
2145	MECHANICAL	RB1	P1	P1	P1	P1	
2146	SOCIAL STUDIES #4	RB1	P2	P1	P1	P1	COUNT 2
2147	COLLAB. FLEX ROOM						
2147.1	BALCONY						
2148	SOCIAL STUDIES #5	RB1	P1	P1	P1	P2	COUNT 2
2149	BOYS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2150	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2151	GIRLS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
2152	SOCIAL STUDIES #9	RB1	P1	P1	P1	P2	COUNT 2
2153	SOCIAL STUDIES #6	RB1	P2	P1	P1	P1	COUNT 2
2154	SOCIAL STUDIES 8	RB1	P1	P1	P1	P2	COUNT 2
2155	SOCIAL STUDIES #7	RB1	P1	P1	P1	P2	COUNT 2
2155.1	STORAGE	RB1	P1	P1	P1	P1	
2156	SPECIALIST	RB1	P1	P1	P1	P1	
2157	STAIR 05		P1	P1	P1	P1	
2158	ELECTRICAL	RB1	P1	P1	P1	P1	
2159	IDF	RB1	P1	P1	P1	P1	
2500	EQUIPMENT PLATFORM	RB1	P1	P1	P1	P1	
2502	STAIR 01		P	P	P	P	COUNT 2, RUBBER AT TREADS AND RISERS
2503	CUSTODIAL	RB1	P1	P1	P1	P1	FRP AT MOP SINK
2504	FREIGHT						
2505	STAIR 10	RB1	P2	P2	P2	P2	
2506	TEAM LOUNGE	RB1	P2	P2	P2	P2	
2507	MEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	
2508	WOMEN'S RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	
2509	STAIR 02		P	P	P	P	COUNT 2, RUBBER AT TREADS AND RISERS
2510	AUXILIARY GYM A	RB3	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	ACCENT PAINT TREATMENT, WALLS PADS
2510.1	P.E. STORAGE	RB1	P1	P1	P1	P1	
2510.2	IDF	RB1	P1	P1	P1	P1	
2511	TESTING STORAGE	RB1	P1	P1	P1	P1	
2512.1	ELECTRICAL	RB1	P1	P1	P1	P1	
2512.2	MECHANICAL	RB1	P1	P1	P1	P1	
2512.3	STAIRS 03	RB1	P2	P2	P2	P2	COUNT 2
2513	STAIRS 04	RB1	P2	P2	P2	P2	COUNT 2
2513	AUXILIARY GYM B	RB3	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	ACCENT PAINT TREATMENT, WALLS PADS
C2100.1	CORRIDOR	-	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	
C2100.3	ELEVATED WALKWAY		P1	P1	P1	P1	
C2501	CORRIDOR	RB1	P1	P1	P1	P1	COUNT 2
C2501.1	CORRIDOR	RB1	P1	P1	P1	P1	COUNT 2
C2512	SKYBRIDGE	-		-		-	
C2700	CORRIDOR		TYP WAINSCOT	-	TYP WAINSCOT	-	
LEVEL 3							
1000	MULTI-PURPOSE						
1132D	STAIR 10		P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
1132E	FREIGHT						
3101	STAIR 09		P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
3102	FORENSIC LAB	RB1	P1	P1	P1	P2	
3102.1	PREP	RB1	P1	P1	P1	P1	
3103	STORAGE	RB1	P1	P1	P1	P1	COUNT 2
3104	BIO LAB	RB1	P1	P2	P1	P1	
3104.1	PREP	RB1	P1	P1	P1	P1	
3105	ELECTRICAL	RB1	P1	P1	P1	P1	
3106	IDF	RB1	P1	P1	P1	P1	
3107	ASTRONOMY CLASS	RB1	P1	P1	P2	P2	
3108	BIO LAB	RB1	P1	P2	P1	P1	
3109	GIRLS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3110	STAFF RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3111	BOYS RR	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3112	BIO LAB	RB1	P1	P2	P1	P1	
3113	MECHANICAL	RB1	P1	P1	P1	P1	COUNT 2
3114	STAIR 07	RB1	P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
3115	SRO	RB1	P1	P1	P1	P1	
3116	SPANISH 1	RB1	P2	P1	P1	P1	
3116.1	ELEV. SWITCH	RB1	P1	P1	P1	P1	
3117	CUSTODIAL	RB1	P1	P1	P1	P1	COUNT 2
3118	ELEV.						
3119	BIO LAB	RB1	P1	P2	P1	P1	
3119.1	SHARED PREP	RB1	P1	P1	P1	P1	
3120	STORAGE	RB1	P1	P1	P1	P1	
3120.1	STORAGE	RB1	P1	P1	P1	P1	
3121	STORAGE	RB1	P1	P1	P1	P1	
3122	SPANISH 2	RB1	P1	P2	P1	P1	COUNT 2
3123	IDF	RB1	P1	P1	P1	P1	
3124	ELEC.	RB1	P1	P1	P1	P1	COUNT 2
3125	SPANISH 3	RB1	P1	P2	P1	P1	
3126	SPANISH 4	RB1	P1	P1	P1	P2	
3127	SPANISH 5	RB1	P1	P1	P1	P2	
3128	SPANISH 6	RB1	P1	P1	P1	P2	
3129	SPANISH 7	RB1	P1	P1	P1	P2	
3130	MECH. ACCESS	RB1	P1	P1	P1	P1	
3131	IDF	RB1	P1	P1	P1	P1	
3132	ANATOMY LAB	RB1	P2	P1	P1	P1	
3132	STAIR 03	RB1	P1	P1	P1	P1	
3132.1	PREP	RB1	P1	P1	P1	P1	
3133	ELEC.	RB1	P1	P1	P1	P1	
3134	PLC / WORK ROOM	RB1	P1	P1	P1	P1	COUNT 2
3135	AP BIO LAB	RB1	P1	P1	P1	P2	
3135.1	PREP	RB1	P1	P1	P1	P1	
3136	STAIR 06	RB1	P1	P1	P1	P1	
3137	FRENCH	RB1	P2	P1	P1	P1	COUNT 2
3138	STORAGE	RB1	P1	P1	P1	P1	
3139	MECH.	RB1	P1	P1	P1	P1	COUNT 2
3140	CHEMISTRY LAB	RB1	P1	P1	P1	P2	
3141	CHEMISTRY LAB	RB1	P1	P1	P2	P1	
3141.1	PREP	RB1	P1	P1	P1	P1	
3142	BOYS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3143	RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3144	GIRLS RESTROOM	FF1	T5, T6, T7	T5, T6, T7	T5, T6, T7	T5, T6, T7	COUNT 2
3145	IPC	RB1	P1	P1	P2	P1	
3145.1	PREP	RB1	P1	P1	P1	P1	
3146	IDF	RB1	P1	P1	P1	P1	
3147	CHEMISTRY LAB	RB1	P1	P1	P1	P2	
3147.1	STORAGE	RB1	P1	P1	P1	P1	
3148	ELECTRICAL	RB1	P1	P1	P1	P1	
3149	PHYSICS LAB	RB1	P1	P2	P1	P1	
3150	STORAGE	RB1	P1	P1	P1	P1	
3151	STAIRS 05	RB1	P1	P1	P1	P1	RUBBER AT TREADS AND RISERS
3501	MECH.	RB1	P1	P1	P1	P1	
3502	STOR.	RB1	P1	P1	P1	P1	
3503	MECH.	RB1	P1	P1	P1	P1	
3700A	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
3700B	COLLAB. FLEX ROOM	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
C3700	CORRIDOR	-	TYP WAINSCOT	-	TYP WAINSCOT	-	
C3700.1	CORRIDOR	-	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	REFER TO ELEVATIONS	
MEZZ / BOD							
4000	MECH.	RB1	P1	P1	P1	P1	
Grand total							

FINISH SCHEDULE NOTES AND REMARKS

GENERAL NOTES:

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL H.M. DOORS _____ U.N.O.

REMARKS:

1. PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.
2. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT

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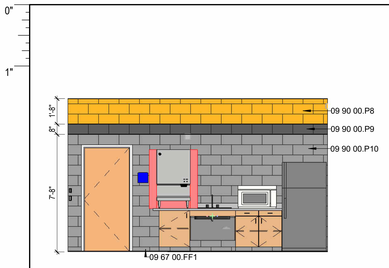
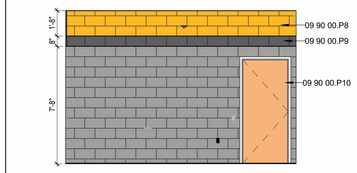
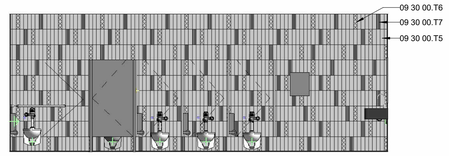
INTERIOR ELEVATIONS
A-931
FOR BLUEBEAM LABELING/DOOR:



05 1505 - CONCESSION TYP PAINT TREATMENT
1/4" = 1'-0"



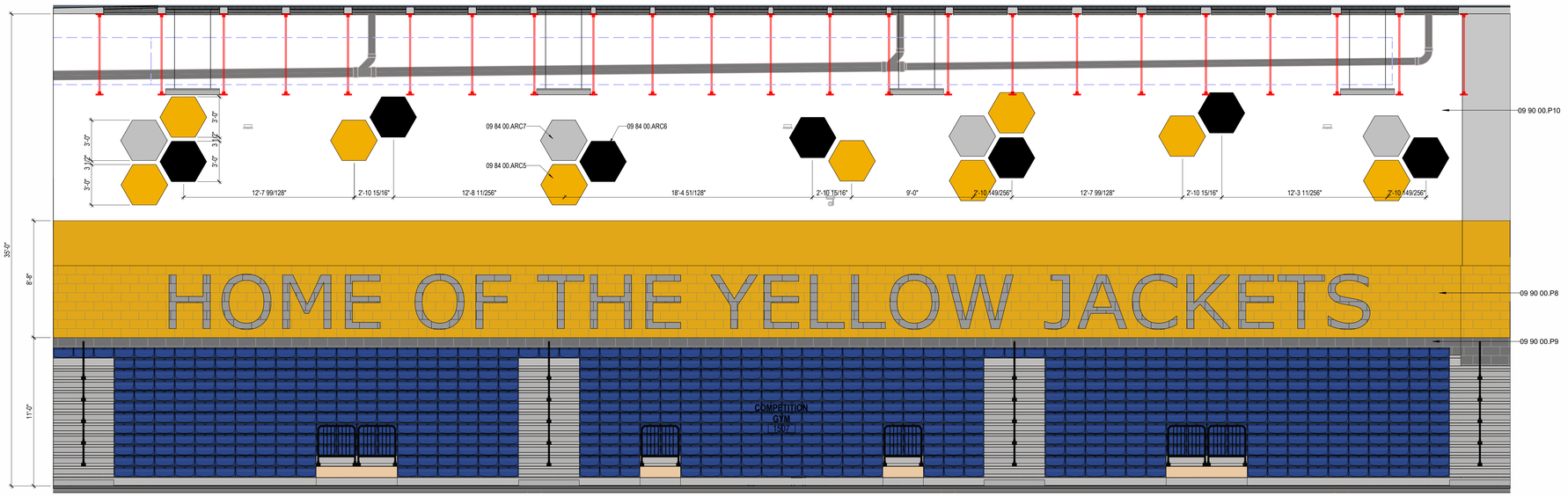
04 1504 - TYPICAL TICKET BOOTH PAINT
1/4" = 1'-0"



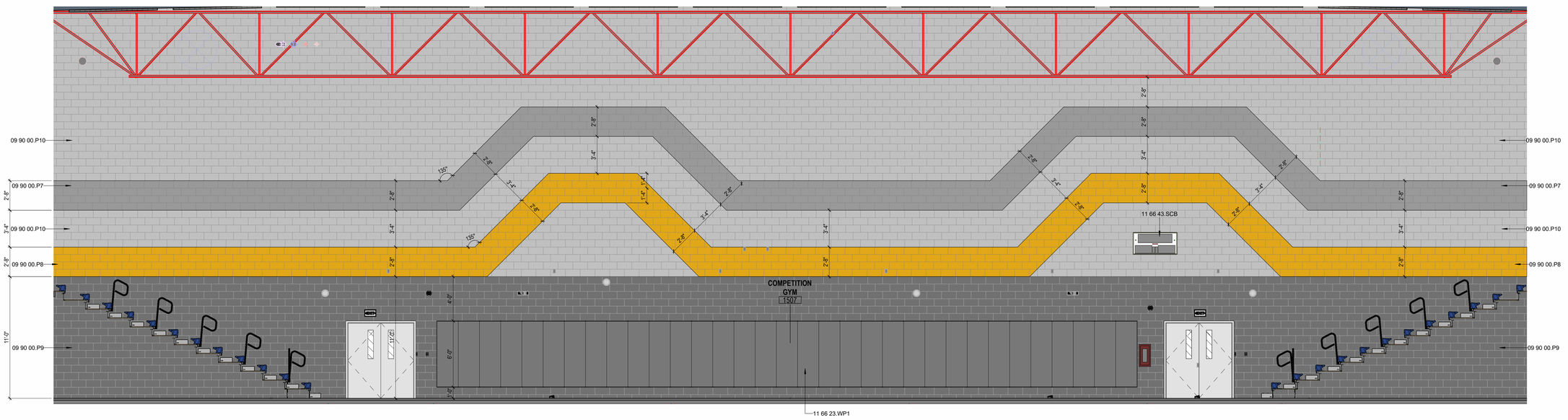
03 1506 - MEN RR TYP. WALL TILE
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T5	TILE TYPE 5 - [RR WALL TILE]
09 30 00.T6	TILE TYPE 6 - [RR WALL TILE]
09 30 00.T7	TILE TYPE 7 - [RR WALL TILE]
09 67 00.FF1	FLUID-APPLIED, EPOXY RESIN FLOORING SYSTEM
09 90 00.P7	PAINT TYPE 7 - ACCENT AT CMU]
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
11 66 23.WP1	WALL PADDING, TYPE 1 [COLOR]
11 66 43.SCB	INTERIOR SCOREBOARD



02 GYM - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



01 GYM - EAST INTERIOR ELEVATION
1/4" = 1'-0"

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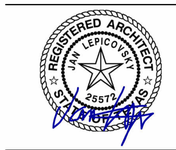
KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

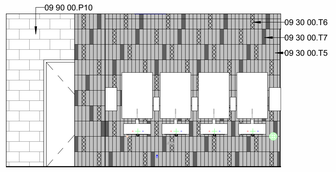
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

A-931

INTERIOR ELEVATIONS
A-932
FOR BLUEBEAM LABELING/DOOR:

0"
1"



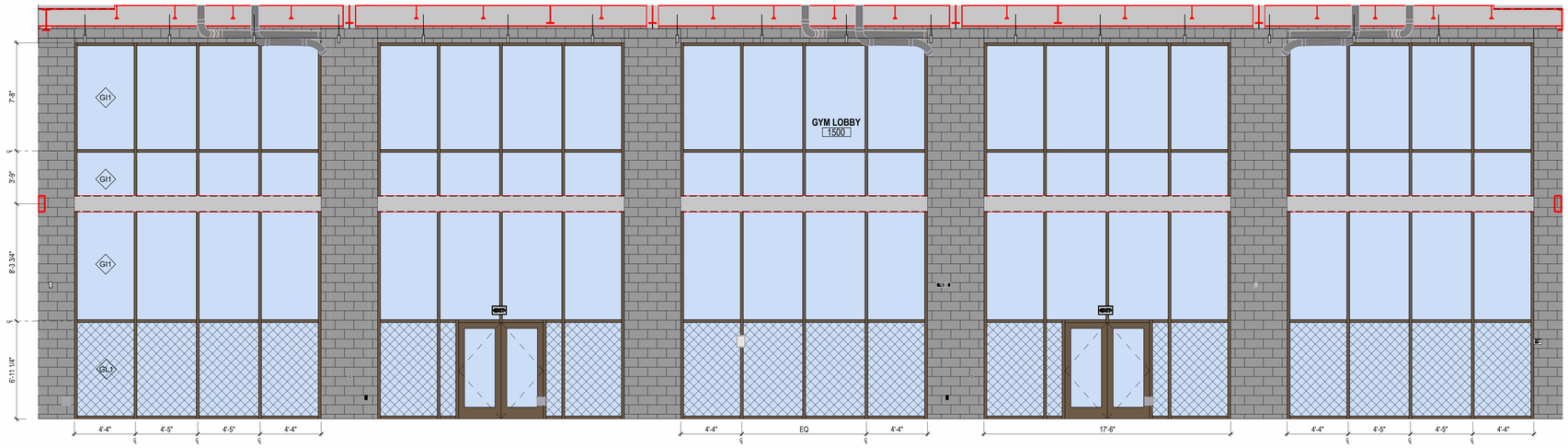
04 1501 - WOMEN'S TYPICAL TILE PATTERN
1/4" = 1'-0"



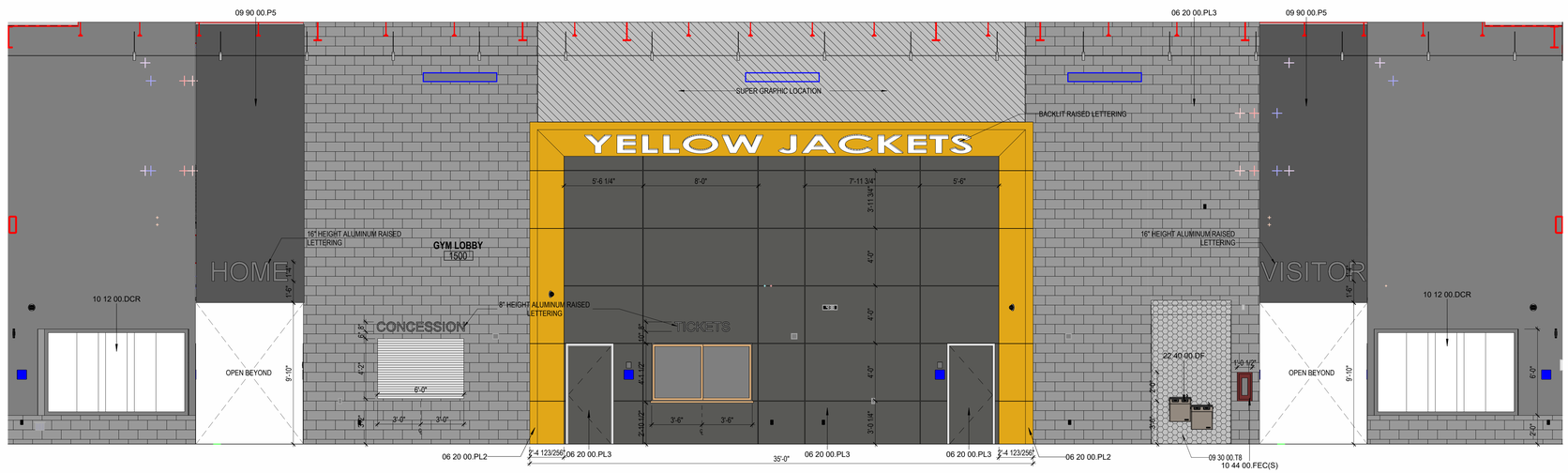
03 TYPICAL COACH'S RR WALL
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.PL2	PLASTIC LAMINATE, TYPE 2 - [GYM LOBBY PORTAL]
06 20 00.PL3	PLASTIC LAMINATE, TYPE 3 - [DOORS AT GYM LOBBY]
09 30 00.T5	TILE TYPE 5 - [RR WALL TILE]
09 30 00.T6	TILE TYPE 6 - [RR WALL TILE]
09 30 00.T7	TILE TYPE 7 - [RR WALL TILE]
09 67 00.FF1	FLUID-APPLIED, EPOXY RESIN FLOORING SYSTEM
09 90 00.P5	PAINT TYPE 5 - [BLACK ACCENT]
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
10 12 00.DCR	RECESSED DISPLAY CASE
10 44 00.FEC(S)	FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED
22 40 00.DF	



02 1500 - ATHLETICS LOBBY - N
1/4" = 1'-0"



01 1500 - ATHLETIC LOBBY - S
1/4" = 1'-0"

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12/5/2025 3:13:08 PM

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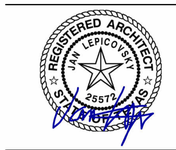
KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

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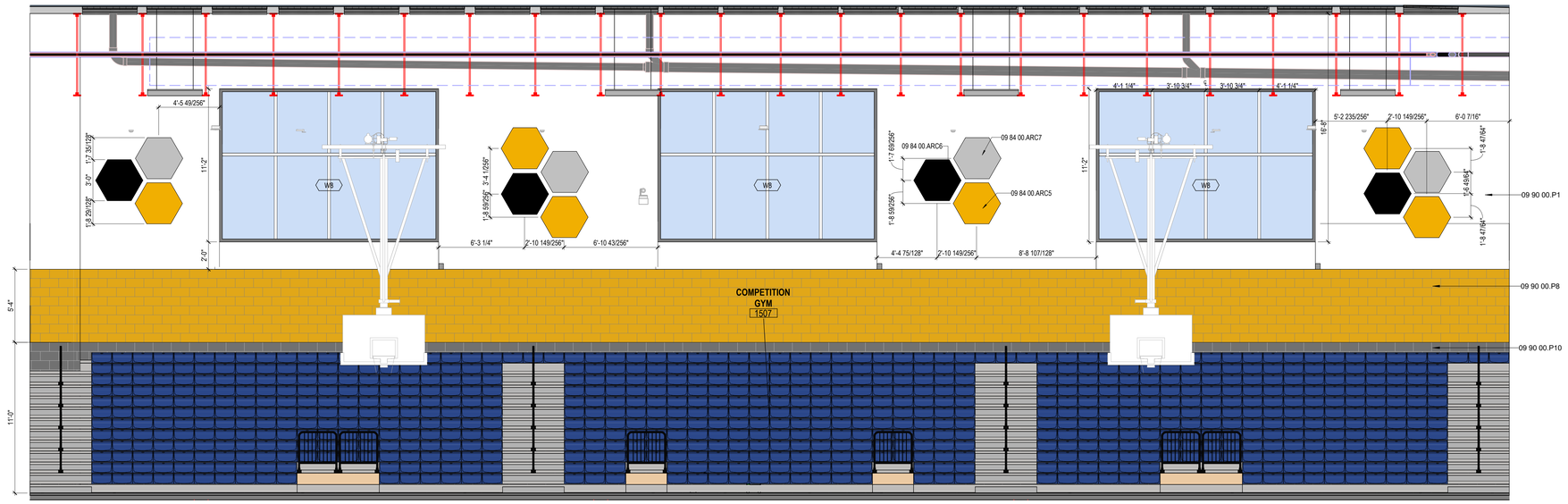
DRAWN BY: Author

INTERIOR ELEVATIONS

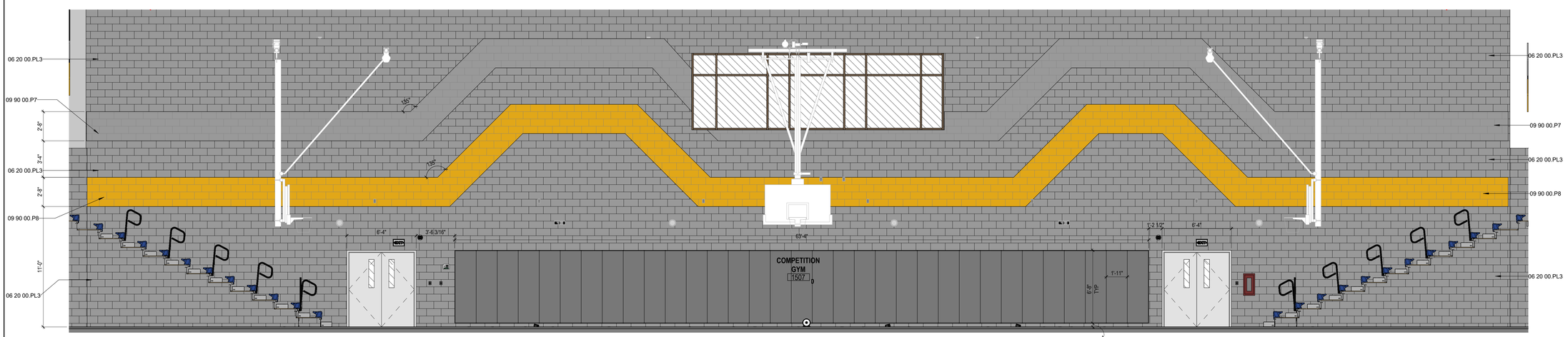
A-932

INTERIOR ELEVATIONS
A-933
FOR BLUEBEAM LABELING/DOOR:

0"
1"



02 1507 - COMPETITION GYM - W
1/4" = 1'-0"



01 1507 - COMPETITION GYM - S
1/4" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE



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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

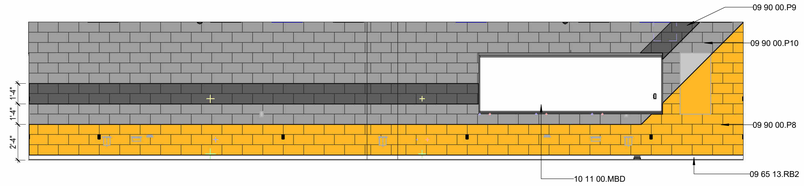
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

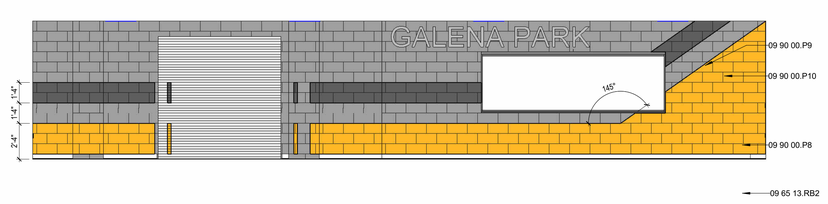
A-933

INTERIOR ELEVATIONS
A-934
FOR BLUEBEAM LABELING/DOOR:

0"
1"



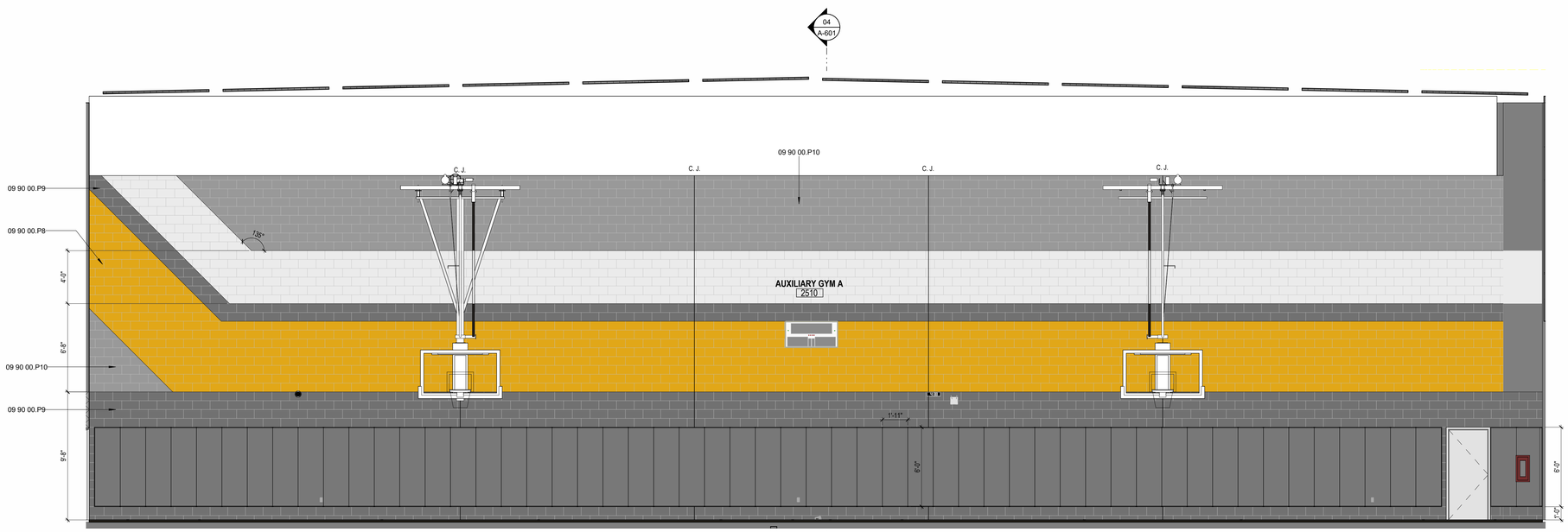
05 1515 - WEIGHT ROOM EAST ELEVATION
1/4" = 1'-0"



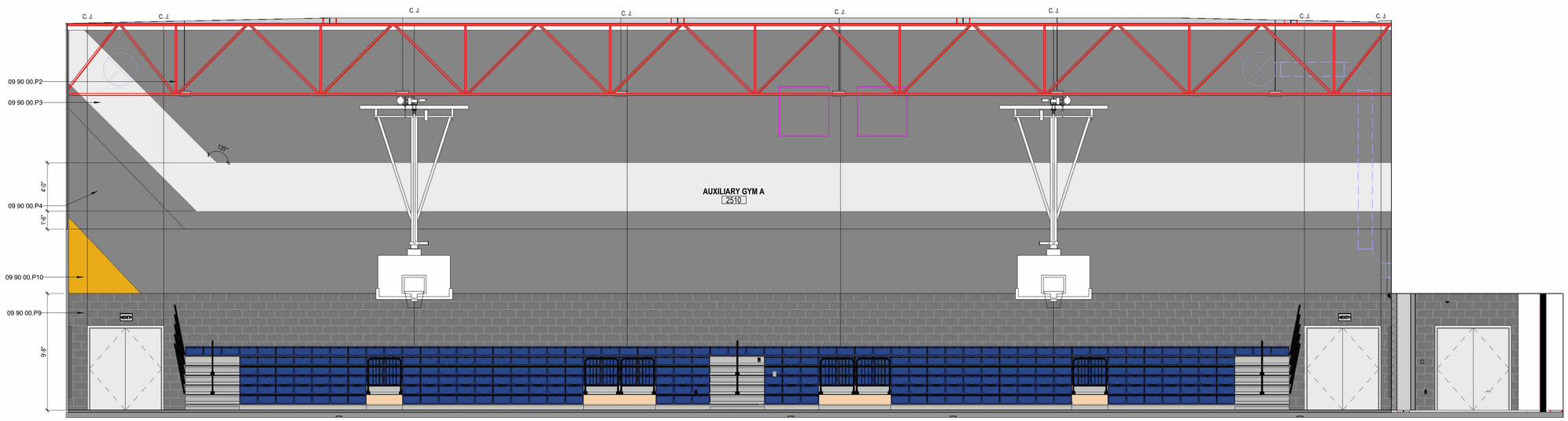
04 1515 - WEIGHT ROOM WEST ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 65 13.RB2	RESILIENT BASE, TYPE 2 - BLACK STANDARD RUBBER BASE
09 90 00.P2	PAINT TYPE 2 - [L.GRAY ACCENT]
09 90 00.P3	PAINT TYPE 3 - [D. GRAY ACCENT]
09 90 00.P4	PAINT TYPE 4- [GOLD BRANDING ACCENT]
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
10 11 00.MBD	12' MARKERBOARD



02 GYM B - WEST INTERIOR ELEVATION
1/4" = 1'-0"



01 GYM B - EAST INTERIOR ELEVATION
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:13:55 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL 47

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD
DATE
December 5, 2025
PROJECT NUMBER
240539
DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

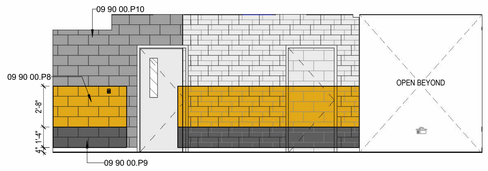
A-934

INTERIOR ELEVATIONS
A-935
FOR BLUEBEAM LABELING/DOOR:

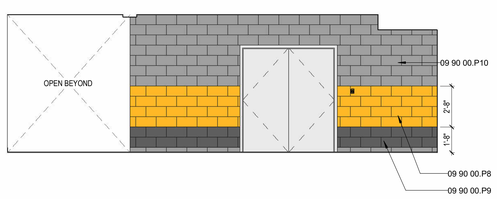
0"
1"

KEYNOTE LEGEND

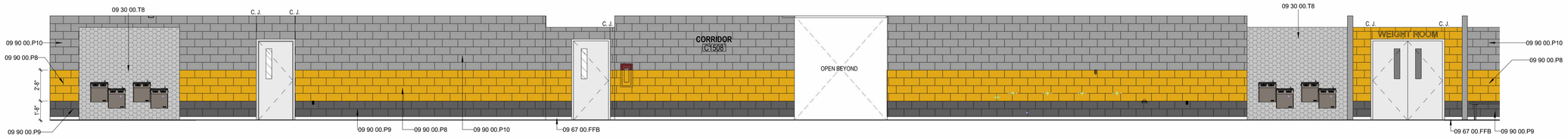
NUMBER	DESCRIPTION
09 30 00.T8	TILE TYPE 8 - [DRINKING FOUNTAIN]
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 67 00.FF1	FLUID-APPLIED, EPOXY RESIN FLOORING SYSTEM
09 67 00.FFB	FLUID-APPLIED FLOORING BASE, RETURN __ " UP WALL
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
10 22 39.FPH	HORIZONTAL-OPENING FOLDING PANEL PARTITION



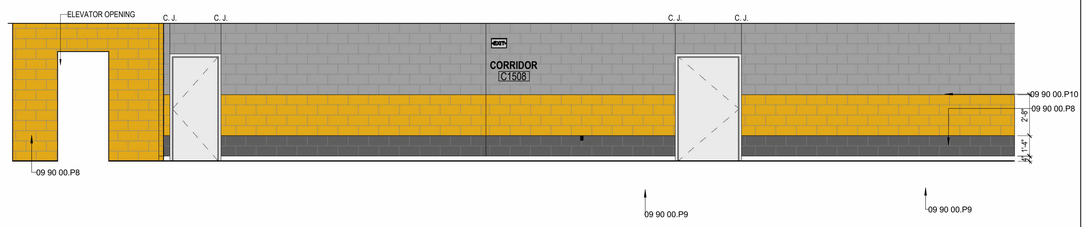
13 C1508 - INTERIOR ELEVATION 1
1/4" = 1'-0"



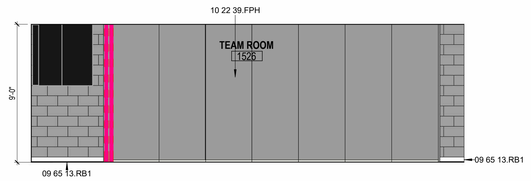
14 C1508 - INTERIOR ELEVATION 2
1/4" = 1'-0"



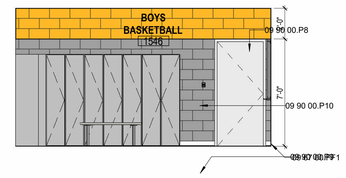
11 C1508 CORRIDOR - INTERIOR ELEVATION
1/4" = 1'-0"



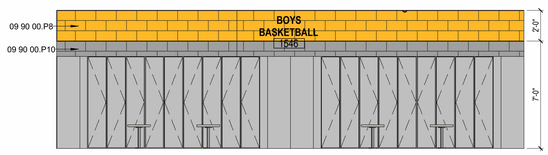
12 C1508 CORRIDOR - ELEVATOR WALL INTERIOR ELEVATION
1/4" = 1'-0"



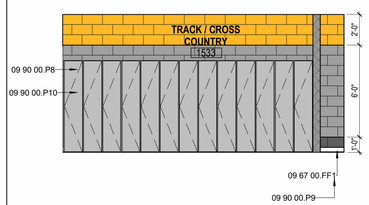
10 TYP. TEAM ROOM
1/4" = 1'-0"



09 TYP. LOCKER ROOM 3 -E
1/4" = 1'-0"



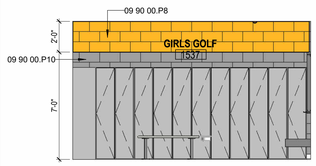
08 TYP. LOCKER ROOM 3 - N
1/4" = 1'-0"



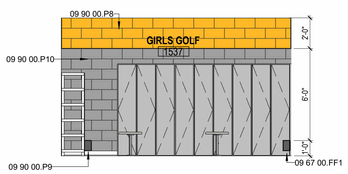
07 TYP. LOCKER ROOM 2 - N
1/4" = 1'-0"



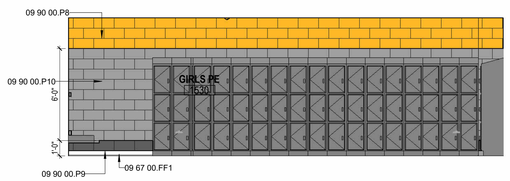
06 TYP. LOCKER ROOM 2 - S
1/4" = 1'-0"



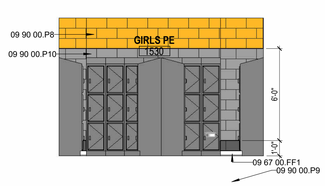
05 TYP. LOCKER ROOM 1 - W
1/4" = 1'-0"



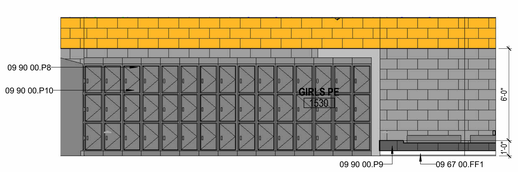
04 TYP. LOCKER ROOM 1 - S
1/4" = 1'-0"



03 TYP. PE LOCKER- S
1/4" = 1'-0"



02 TYP. PE LOCKER - W
1/4" = 1'-0"



01 TYP. PE LOCKER - N
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:14:03 PM

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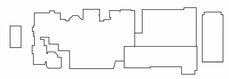
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

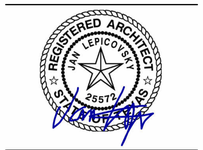
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN





CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

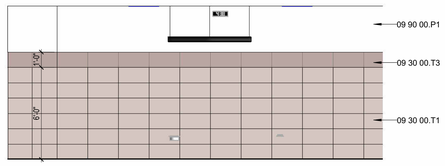
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

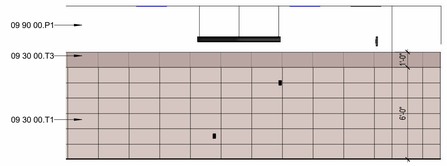
A-935

INTERIOR ELEVATIONS
A-941
FOR BLUEBEAM LABELING/DOOR:

0"
1"



08 1135 - WEST INTERIOR ELEVATION
1/4" = 1'-0"



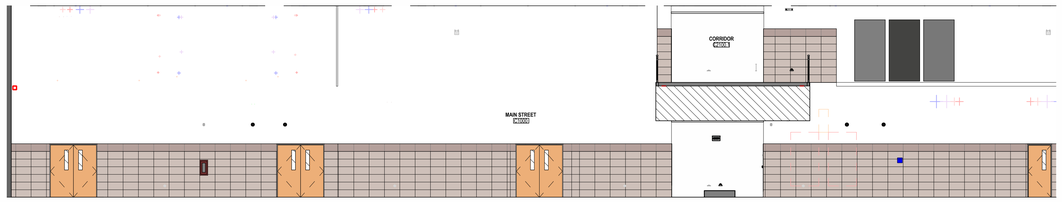
07 1135 - EAST INTERIOR ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

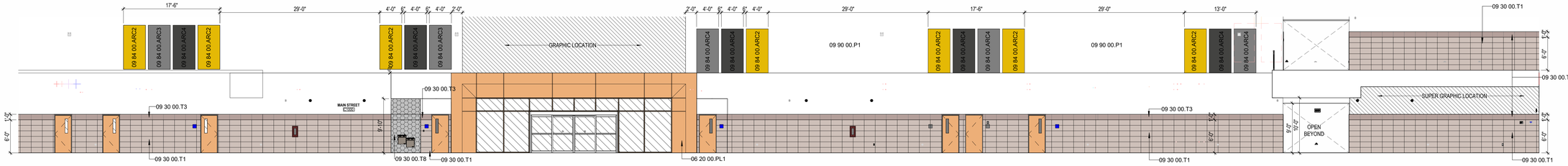
NUMBER	DESCRIPTION
06 20 00.PL1	PLASTIC LAMINATE, TYPE 1 - [CASEWORK AND DOORS]
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 30 00.T8	TILE TYPE 8 - [DRINKING FOUNTAIN]
09 84 00.ARC2	ACOUSTIC ROOM COMPONENT TYPE 2 - WALL ACOUSTIC PANELS
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 2 - WALL ACOUSTIC PANELS
09 84 00.ARC4	ACOUSTIC ROOM COMPONENT TYPE 2 - WALL ACOUSTIC PANELS
09 90 00.P1	PAINT TYPE 1 - [FIELD]



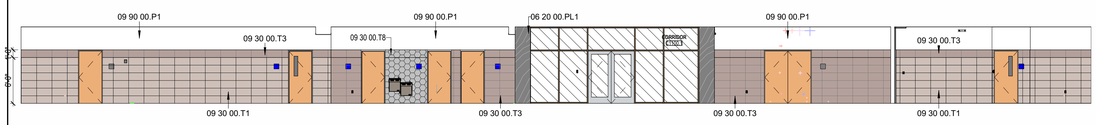
06 MULTIPURPOSE EAST ENTRY
1/8" = 1'-0"



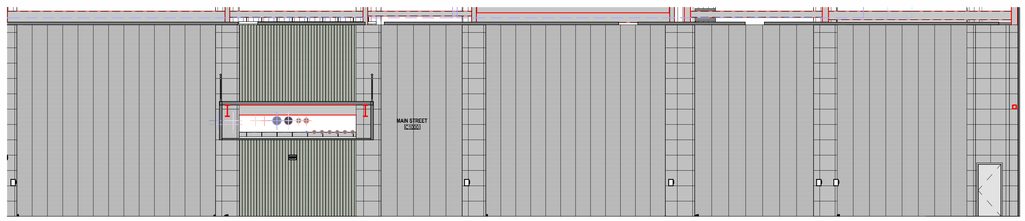
05 MULTIPURPOSE SOUTH ENTRY 2 OF 2
1/8" = 1'-0"



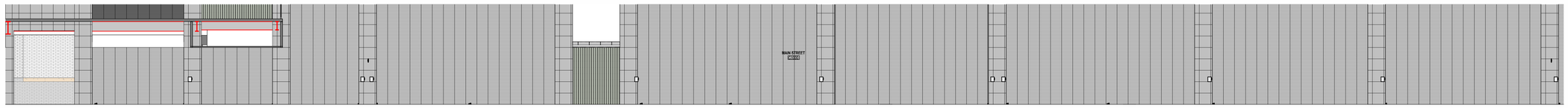
04 MULTIPURPOSE SOUTH ENTRY 1 OF 2
1/8" = 1'-0"



03 MULTIPURPOSE WEST ENTRY
1/8" = 1'-0"



02 MAIN STREET- SOUTH VIEW 2 OF 2
1/8" = 1'-0"



01 MAIN STREET- SOUTH VIEW 1 OF 2
1/8" = 1'-0"

Plot Stamp:
12/5/2025 3:14:18 PM

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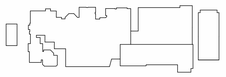
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

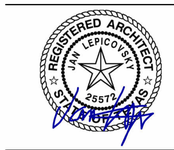
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

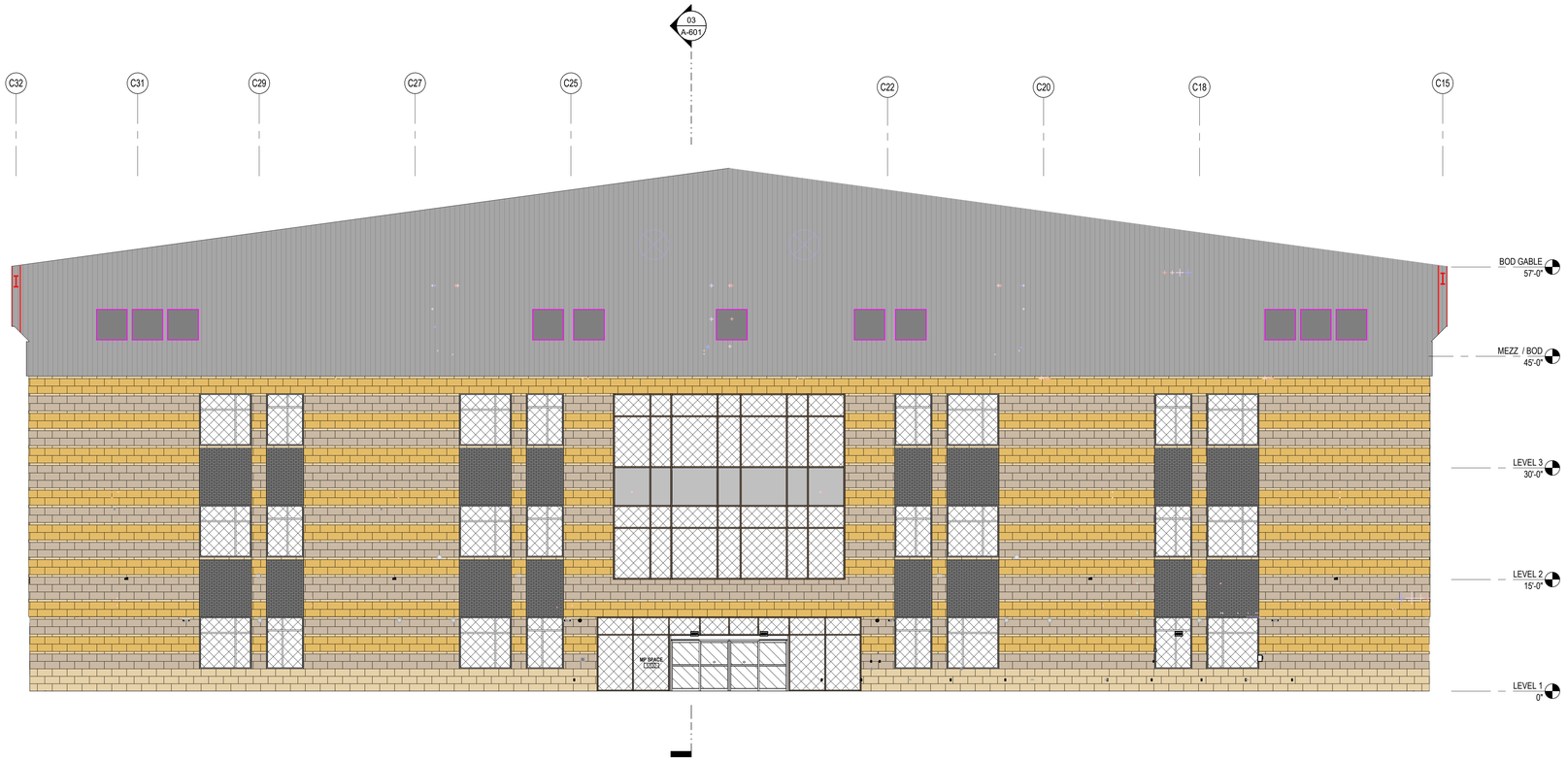
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

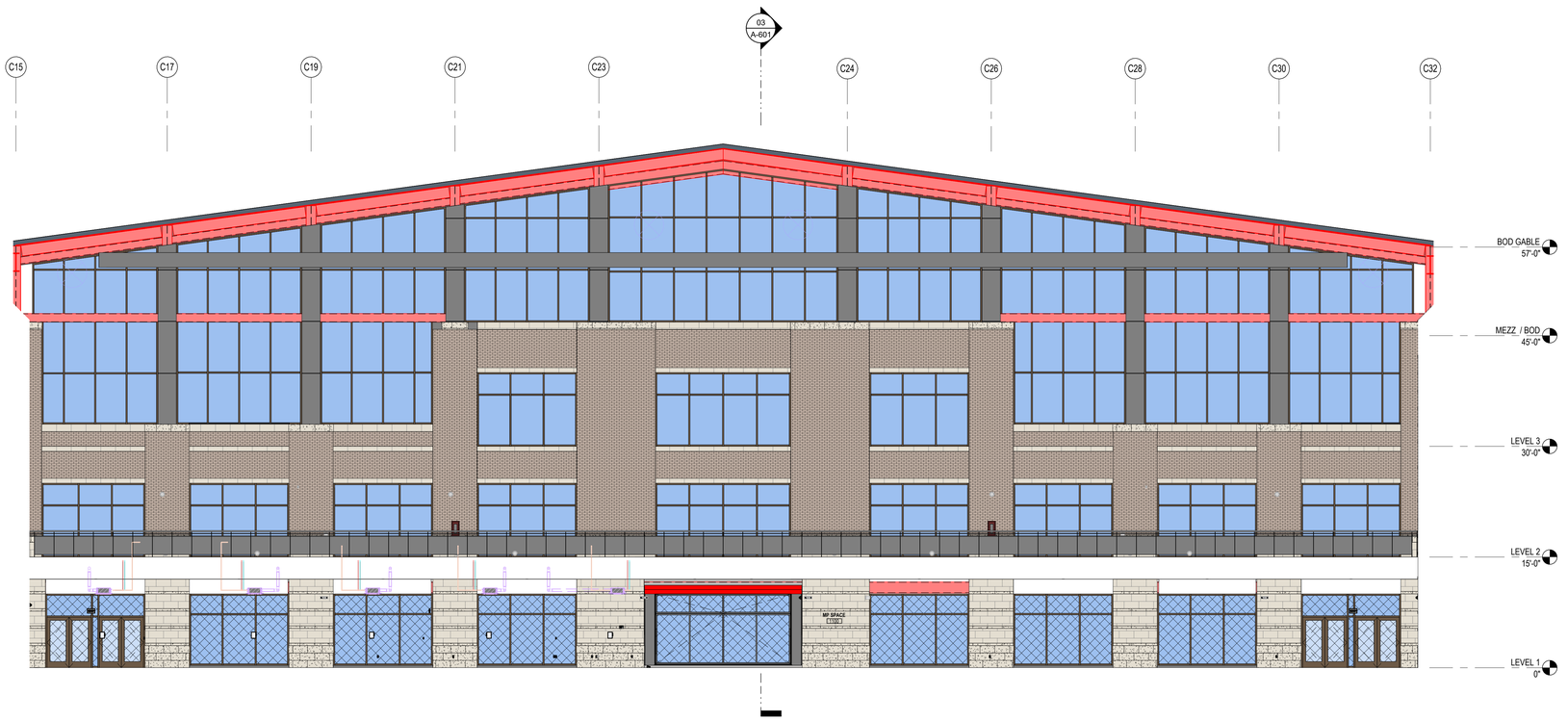
A-941

INTERIOR ELEVATIONS
A-942
FOR BLUEBEAM LABELING/DOOR:

0"
1"



02 INTERIOR MULTIPURPOSE - WEST
1/8" = 1'-0"



01 INTERIOR MULTIPURPOSE - EAST
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 3
COLOR: AS SELECTED BY ARCHITECT

GG2

1" CLEAR INSULATED VISION GLASS

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

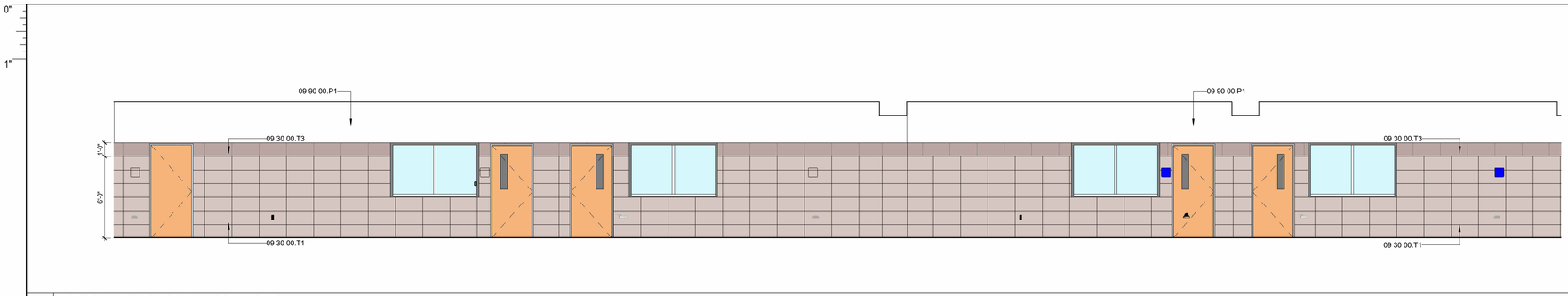
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

A-942

Plot Stamp:
12/5/2025 3:14:25 PM

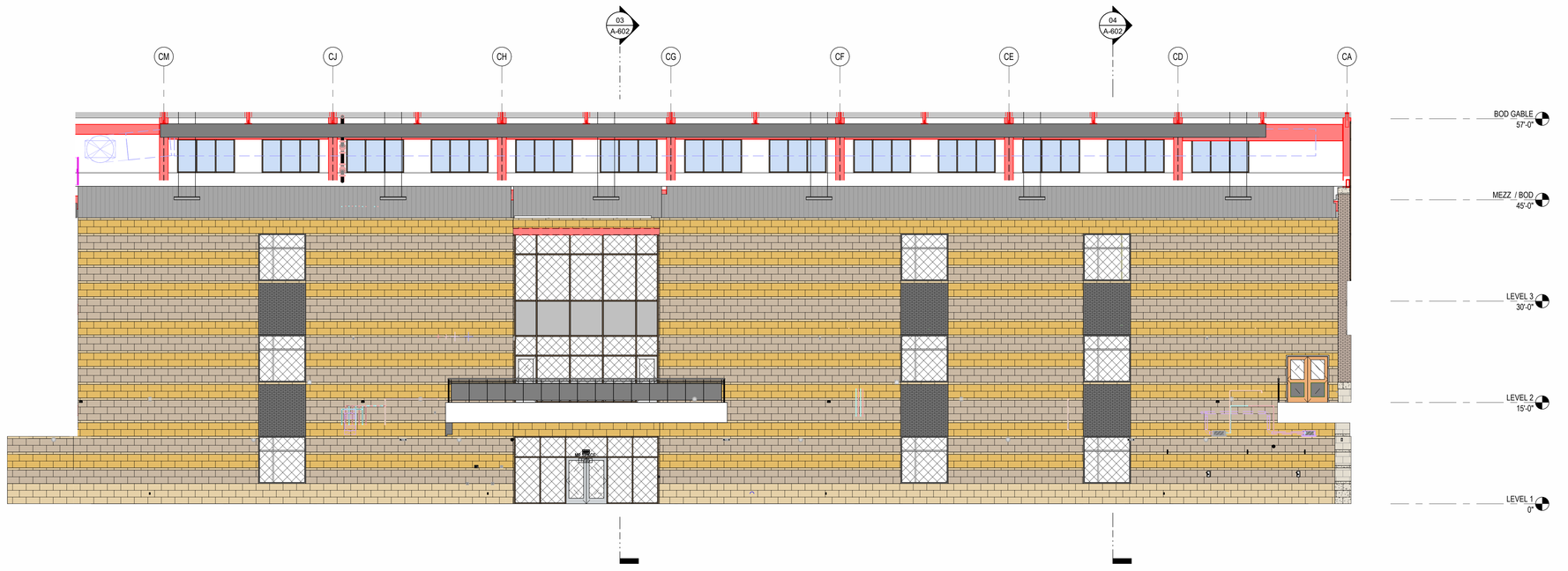
INTERIOR ELEVATIONS
A-943
FOR BLUEBEAM LABELING/DOOR:



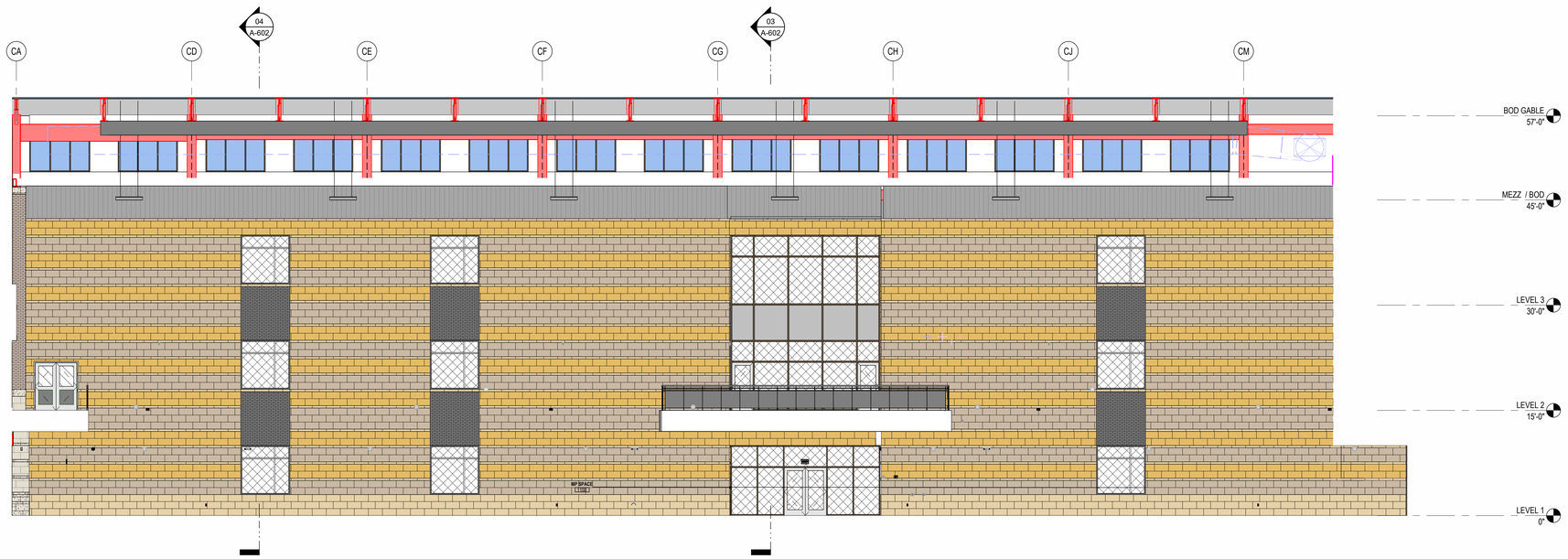
KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 90 00.P1	PAINT TYPE 1 - [FIELD]

03 TYPICAL CLASSROOM CORRIDOR
1/4" = 1'-0"



02 INTERIOR MULTIPURPOSE - NORTH
1/8" = 1'-0"



01 INTERIOR MULTIPURPOSE - SOUTH
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

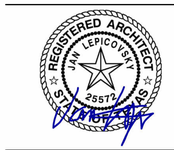
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

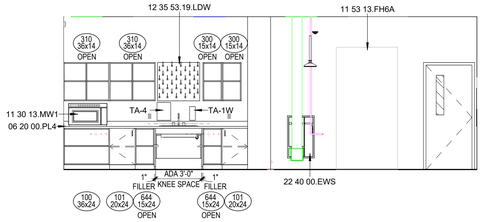
INTERIOR ELEVATIONS

A-943

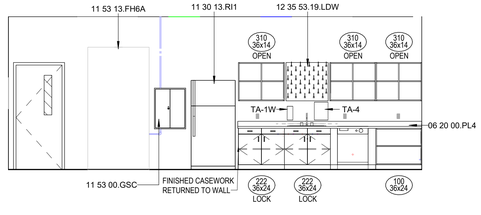
Plot Stamp:
12/5/2025 3:14:33 PM

CASEWORK ELEVATION
A-951
FOR BLUEBEAM LABELING/DOOR:

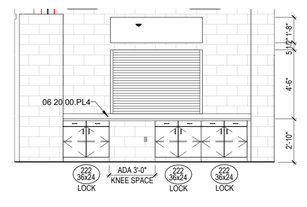
0"
1"



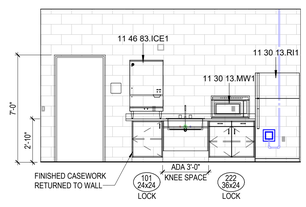
20 3141.1 SHARED PREP ROOM WEST ELEV
1/4" = 1'-0"



19 3141.1 SHARED PREP ROOM EAST ELEV
1/4" = 1'-0"



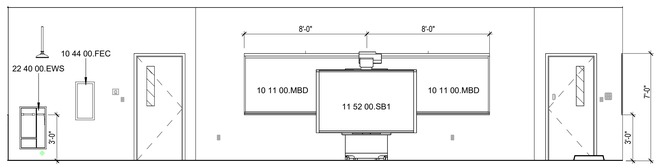
18 1505 CONCESSIONS EAST ELEV
1/4" = 1'-0"



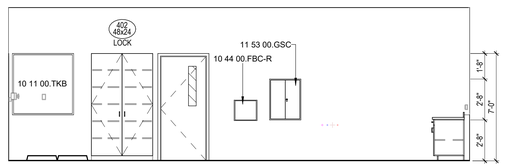
17 1505 CONCESSION WEST ELEV
1/4" = 1'-0"

KEYNOTE LEGEND

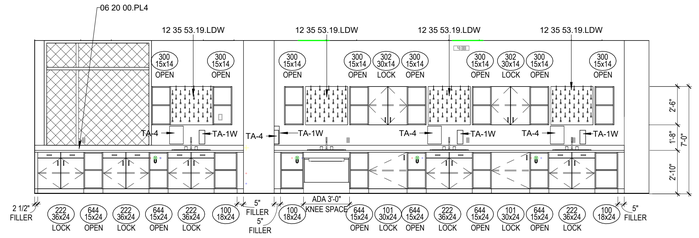
NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 28 00.CP1	COPIER/PRINTER (OFOI)
11 30 13.CD1	CLOTHES DRYER
11 30 13.CW1	CLOTHES WASHER
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RH	
11 30 13.RI1	
11 46 83.ICE1	ICE MACHINE
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
11 53 13.FH6A	FUME HOOD, 6 FOOT LENGTH ACCESSIBLE
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



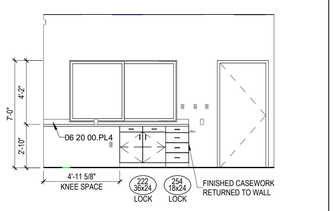
16 3149 PHYSICS LAB SOUTH ELEV
1/4" = 1'-0"



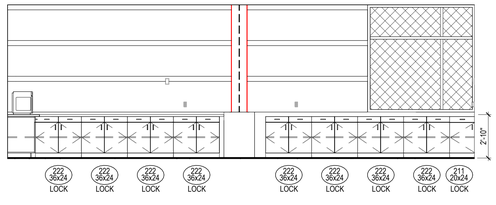
15 3149 PHYSICS LAB WEST ELEV
1/4" = 1'-0"



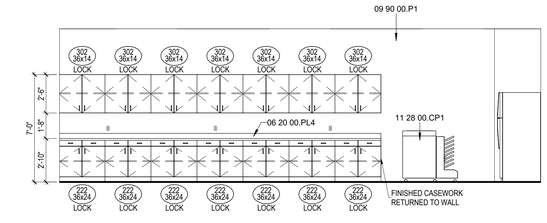
14 3149 PHYSICS LAB NORTH ELEV.
1/4" = 1'-0"



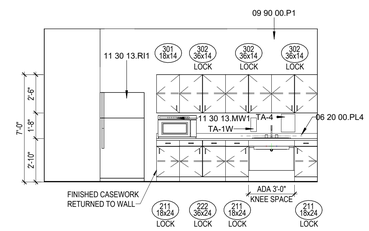
13 1504 TICKET BOOTH EAST ELEV
1/4" = 1'-0"



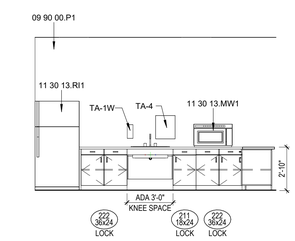
12 1733 WORKROOM EAST ELEV.
1/4" = 1'-0"



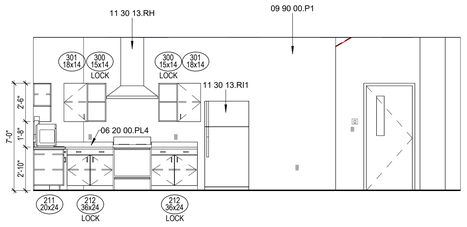
11 2128 WORK RM/PLC WEST ELEV.
1/4" = 1'-0"



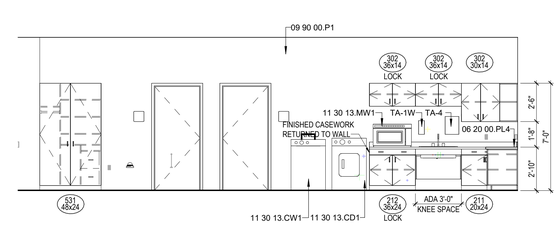
10 2128 WORK RM/PLC NORTH ELEV.
1/4" = 1'-0"



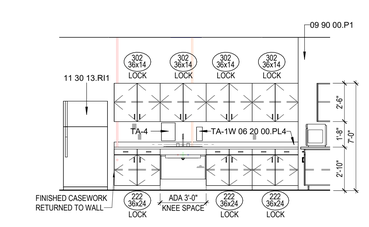
09 1733 WORKROOM NORTH ELEV.
1/4" = 1'-0"



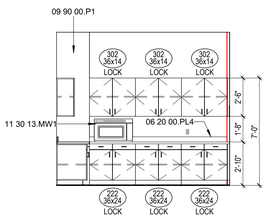
08 1107 MOCK LIVING SOUTH ELEV.
1/4" = 1'-0"



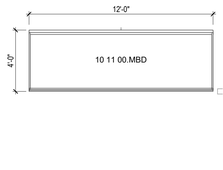
07 1107 MOCK LIVING EAST ELEV.
1/4" = 1'-0"



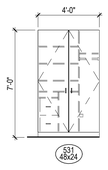
06 1142 BREAK ROOM WEST ELEV.
1/4" = 1'-0"



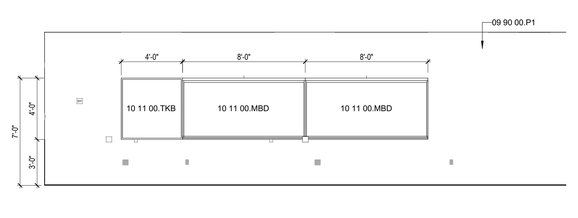
05 1142 BREAK ROOM NORTH ELEV
1/4" = 1'-0"



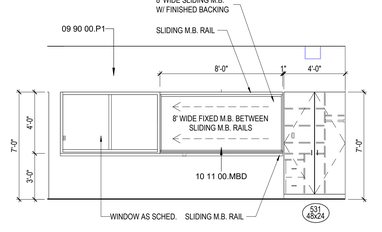
04 TYP. CLSSRM 12' MARKER BOARD ELEV
1/4" = 1'-0"



03 TYP. CLASSROOM WARDROBE CABINET
1/4" = 1'-0"



02 TYP. CLASSROOM TACK BOARD & MARKER BOARDS ELEV
1/4" = 1'-0"



NOTE: REFER TO AREA PLANS FOR EQUIPMENT CONFIGURATION

01 TYP. CLASSROOM CABINET & MARKERBOARD ELEV
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:14:49 PM

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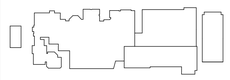
HOUSTON, TX
713-865-0008

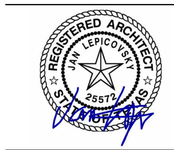
Package 2

ISSUE FOR PROPOSAL
1000 Keene St.
Galena Park, TX 77547

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

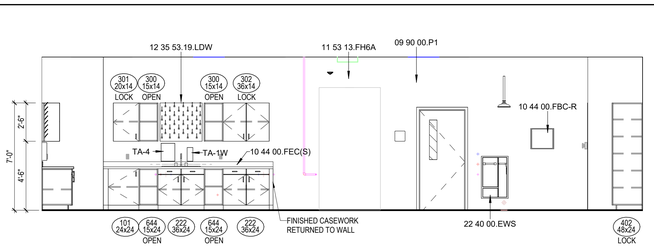
No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

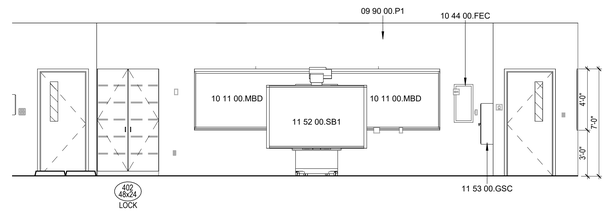
CASEWORK ELEVATION

A-951

CASEWORK ELEVATION
A-952
FOR BLUEBEAM LABELING/DOOR:

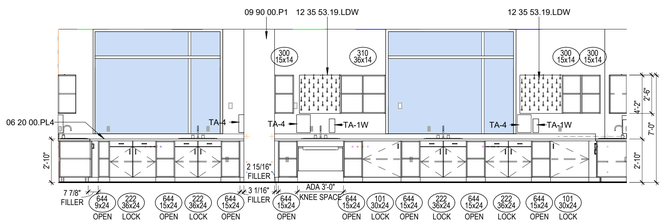


14 3140 CHEMISTRY LAB WEST ELEV
1/4" = 1'-0"

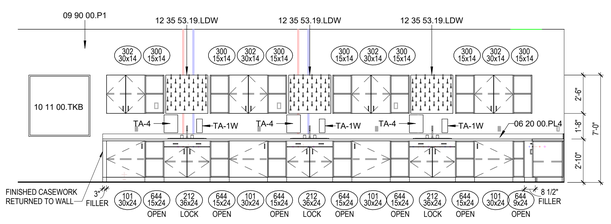


13 3140 CHEMISTRY LAB NORTH ELEV
1/4" = 1'-0"

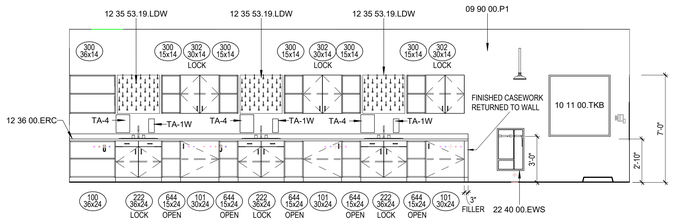
KEYNOTE LEGEND	
NUMBER	**DESCRIPTION**
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 44 00.FEC(S)	FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
11 53 13.FH6A	FUME HOOD, 6 FOOT LENGTH ACCESSIBLE
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
12 36 00.ERC	EPOXY RESIN COUNTERTOP
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



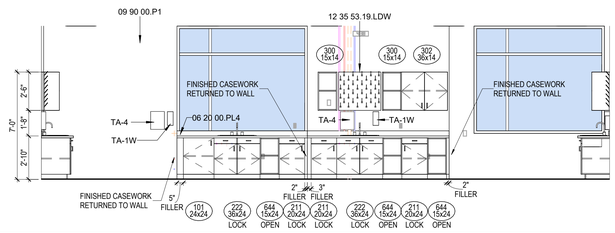
12 3140 CHEMISTRY LAB SOUTH ELEV
1/4" = 1'-0"



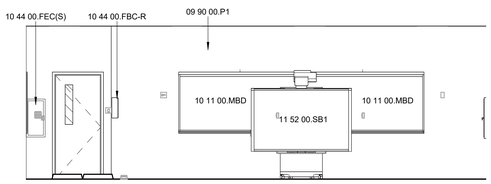
11 3140 CHEMISTRY LAB EAST ELEV
1/4" = 1'-0"



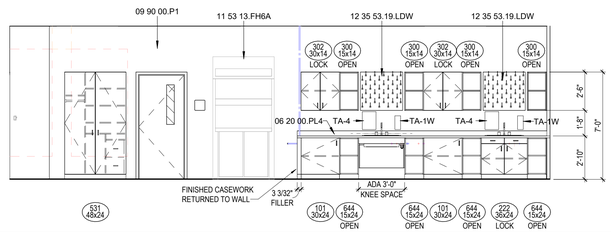
10 3141 CHEMISTRY LAB WEST ELEV
1/4" = 1'-0"



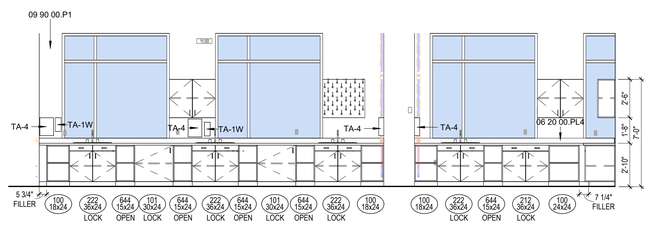
09 3141 CHEMISTRY LAB SOUTH ELEV
1/4" = 1'-0"



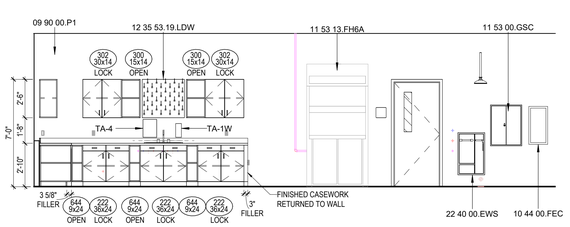
08 3141 CHEMISTRY LAB NORTH ELEV
1/4" = 1'-0"



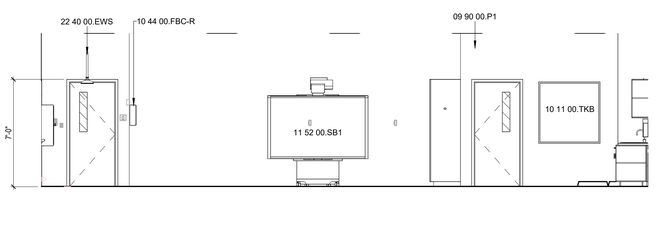
07 3141 CHEMISTRY LAB EAST ELEVATION
1/4" = 1'-0"



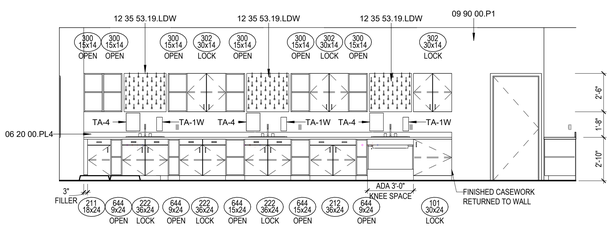
06 3147 CHEMISTRY LAB SOUTH ELEV
1/4" = 1'-0"



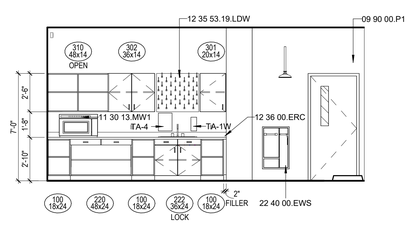
05 3147 CHEMISTRY LAB WEST ELEV
1/4" = 1'-0"



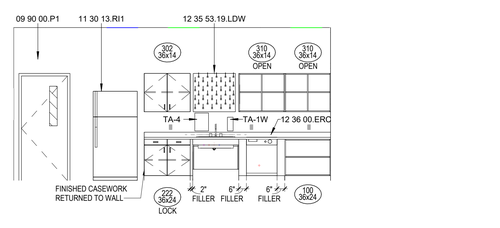
04 3147 CHEMISTRY LAB NORTH ELEV.
1/4" = 1'-0"



03 3147 CHEMISTRY LAB EAST ELEV
1/4" = 1'-0"



02 TYP. 3145.1 PREP ROOM EAST ELEV.
1/4" = 1'-0"



01 TYP. 3145.1 PREP ROOM WEST ELEV.
1/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

PBK
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HOUSTON, TX
713-865-0008

Galena Park ISD
1000 Keene St.
Galena Park, TX 77547

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN EPICO SAN 25572 TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

CASEWORK ELEVATION

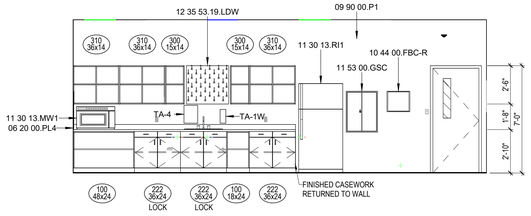
A-952

Plot Stamp:
12/5/2025 3:15:03 PM

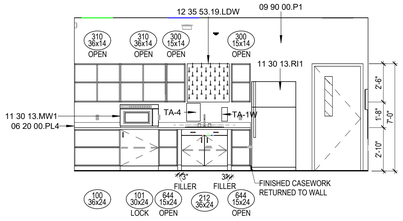
CASEWORK ELEVATION
A-953

FOR BLUEBEAM LABELING/OCR:

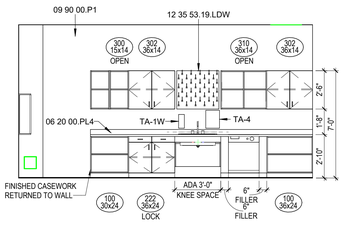
0"
1"



14 3135.1 SCIENCE LAB PREP ROOM WEST ELEV
1/4" = 1'-0"



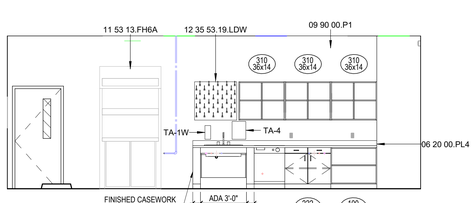
13 3132 ANATOMY PREP ROOM SOUTH ELEV
1/4" = 1'-0"



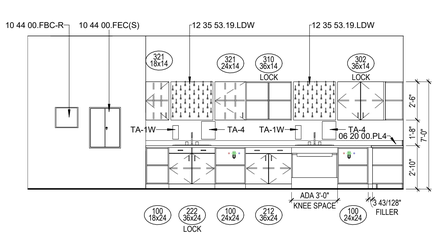
12 3132 ANATOMY PREP ROOM NORTH ELEV
1/4" = 1'-0"

KEYNOTE LEGEND

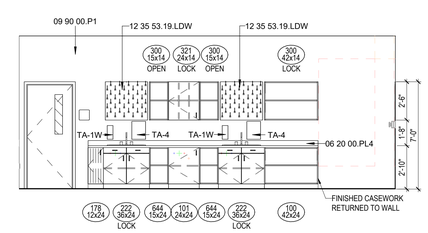
NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 44 00.FEC(S)	FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED
11 28 00.CP1	COPIER/PRINTER (OFOI)
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
11 53 13.FH6A	FUME HOOD, 6 FOOT LENGTH ACCESSIBLE
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



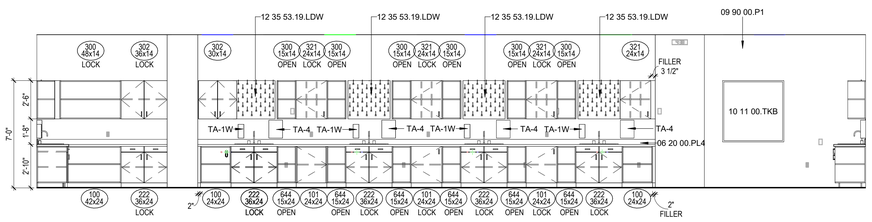
11 3135.1 SCIENCE LAB PREP ROOM EAST ELEV
1/4" = 1'-0"



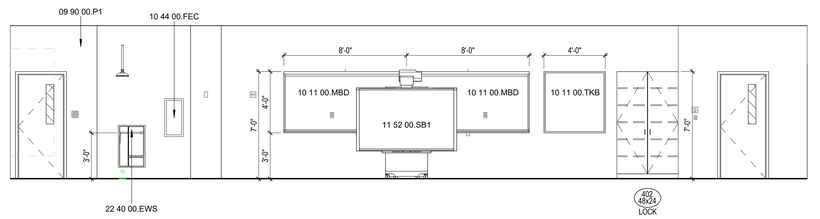
10 3132 ANATOMY LAB SOUTH ELEV
1/4" = 1'-0"



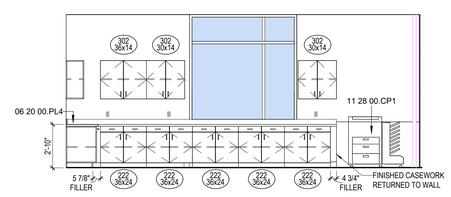
09 3132 ANATOMY LAB NORTH ELEV
1/4" = 1'-0"



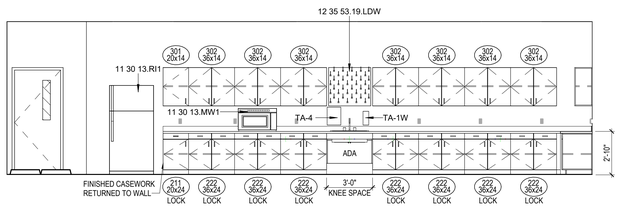
08 3132 ANATOMY LAB WEST ELEV
1/4" = 1'-0"



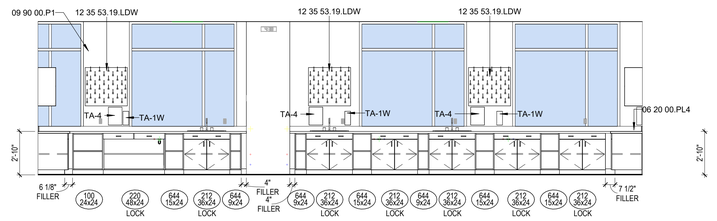
07 3132 ANATOMY LAB EAST ELEV
1/4" = 1'-0"



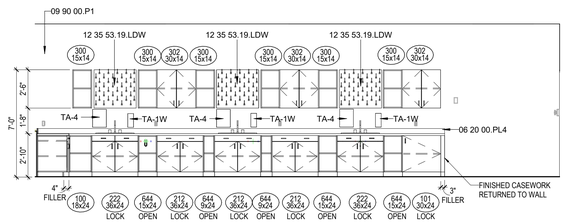
06 3134 PLC / WORK ROOM SOUTH ELEV
1/4" = 1'-0"



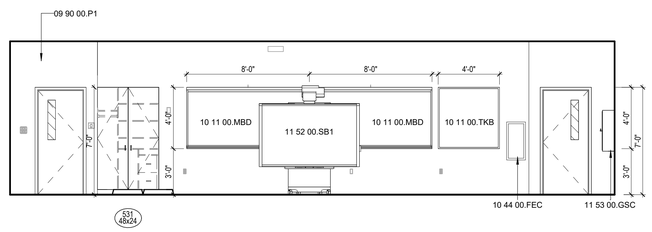
05 3134 PLC / WORK ROOM EAST ELEV
1/4" = 1'-0"



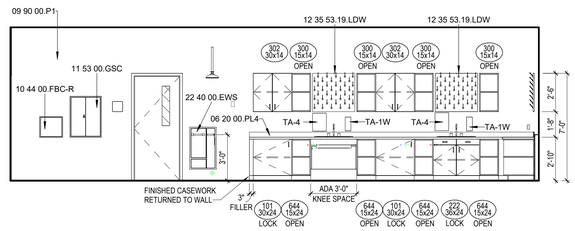
04 3135 AP BIO LAB SOUTH ELEV
1/4" = 1'-0"



03 3135 AP BIO LAB WEST ELEV
1/4" = 1'-0"



02 3135 AP BIO LAB NORTH ELEV
1/4" = 1'-0"



01 3135 AP BIO LAB EAST ELEV
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:15:17 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
STATE OF TEXAS
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

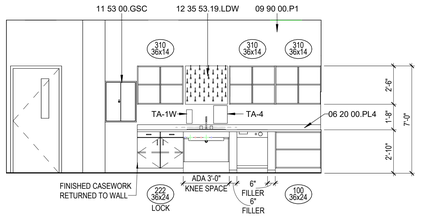
CASEWORK ELEVATION

A-953

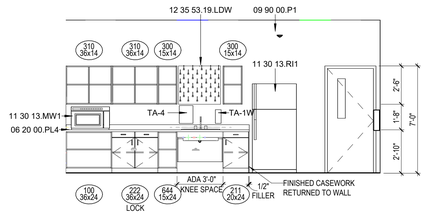
CASEWORK ELEVATION
A-954

FOR BLUEBEAM LABELING/DOOR:

0"
1"

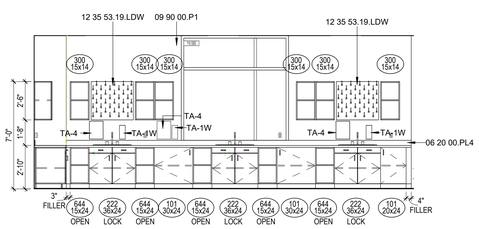


14 3102.1 PREP ROOM EAST ELEV
1/4" = 1'-0"

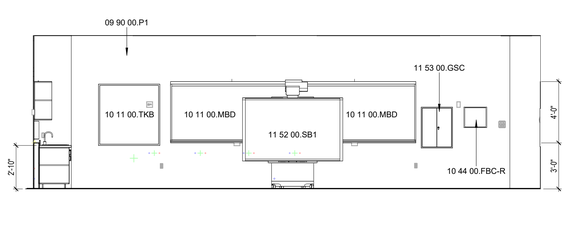


13 3102.1 PREP ROOM WEST ELEV
1/4" = 1'-0"

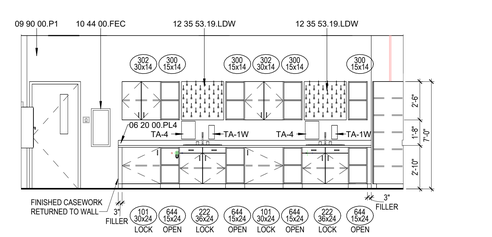
KEYNOTE LEGEND	
NUMBER	**DESCRIPTION**
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 44 00.FEC(S)	FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



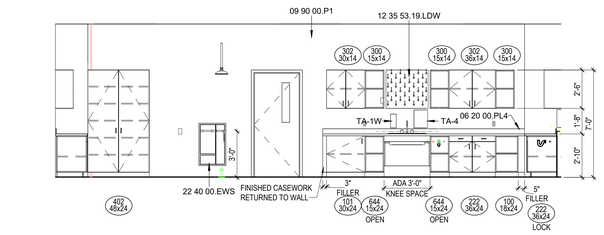
12 3107 ASTRONOMY CLASS SOUTH ELEV
1/4" = 1'-0"



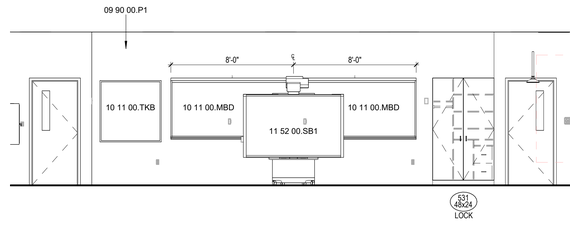
11 3107 ASTRONOMY CLASS WEST ELEV
1/4" = 1'-0"



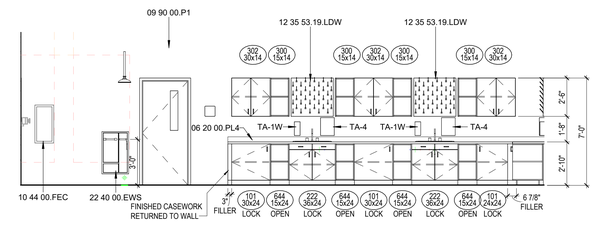
10 3107 ASTRONOMY CLASS NORTH ELEV
1/4" = 1'-0"



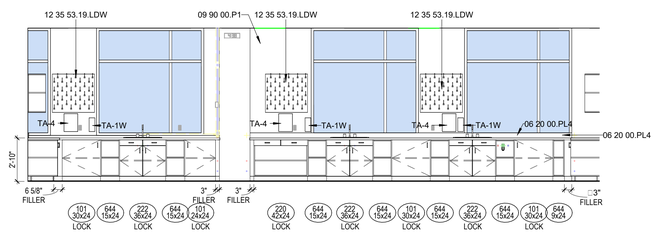
09 3107 ASTRONOMY CLASS EAST ELEV
1/4" = 1'-0"



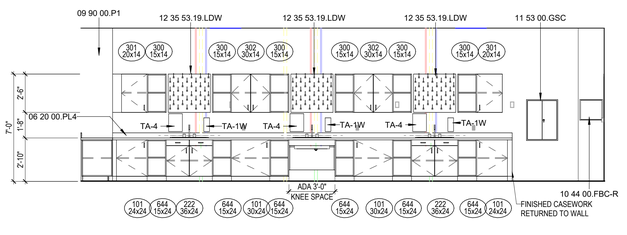
08 3104 BIO LAB SOUTH ELEV
1/4" = 1'-0"



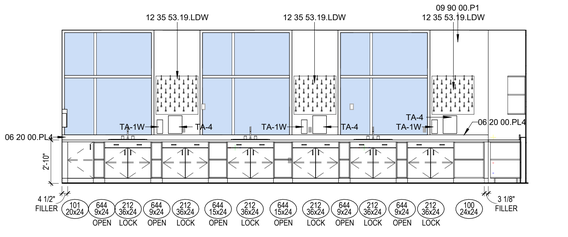
07 3104 BIO LAB WEST ELEV
1/4" = 1'-0"



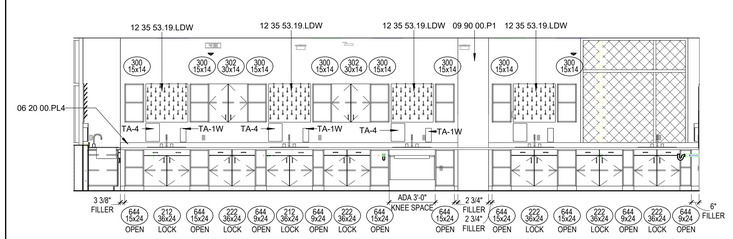
06 3104 BIO LAB NORTH ELEV
1/4" = 1'-0"



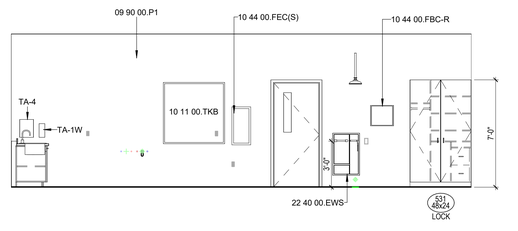
05 3104 BIO LAB EAST ELEV
1/4" = 1'-0"



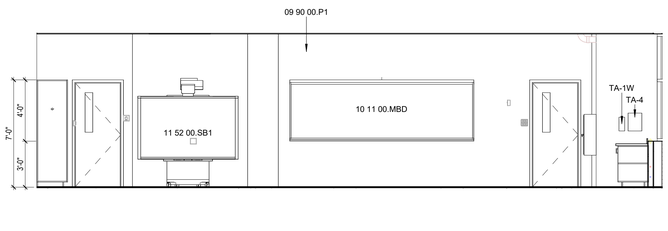
04 3102 FORENSIC LAB EAST ELEV
1/4" = 1'-0"



03 3102 FORENSIC LAB SOUTH ELEV
1/4" = 1'-0"



02 3102 FORENSIC LAB WEST ELEV
1/4" = 1'-0"



01 3102 FORENSIC LAB NORTH ELEV
1/4" = 1'-0"

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12/5/2025 3:15:31 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

DRAWN BY: Author

CASEWORK ELEVATION

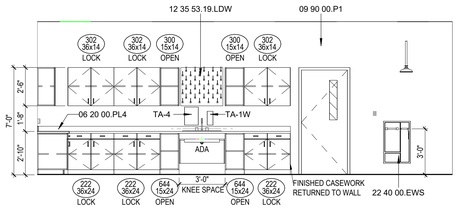
A-954

CASEWORK ELEVATION
A-955
FOR BLUEBEAM LABELING/DOOR:

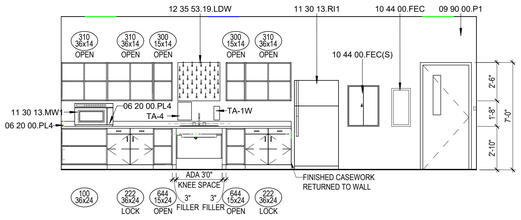
0"
1"

KEYNOTE LEGEND

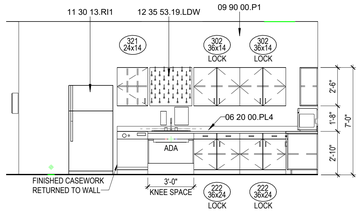
NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 44 00.FEC(S)	FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



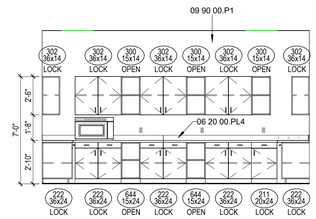
12 3119.1 SHARED PREP ROOM WEST ELEV
1/4" = 1'-0"



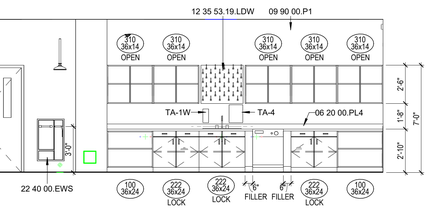
13 3104.1 PREP ROOM EAST ELEV
1/4" = 1'-0"



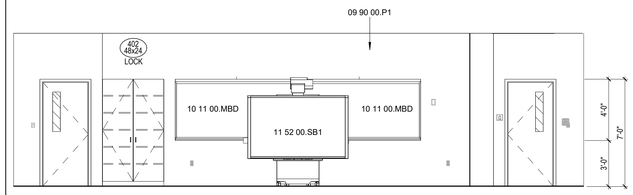
10 3119.1 SHARED PREP ROOM EAST ELEV
1/4" = 1'-0"



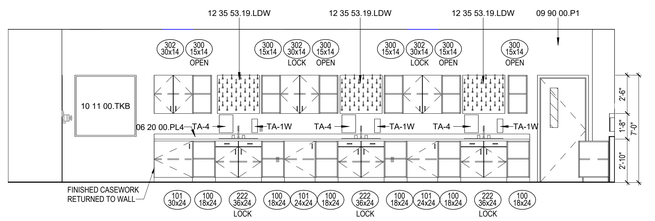
11 3119.1 SHARED PREP ROOM SOUTH ELEV
1/4" = 1'-0"



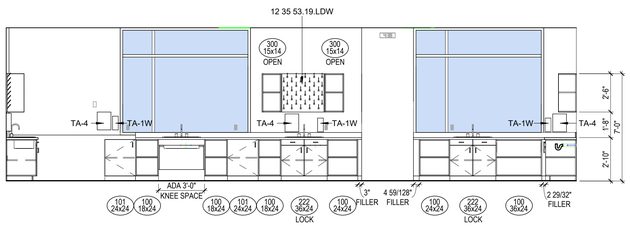
09 3104.1 PREP ROOM WEST ELEV
1/4" = 1'-0"



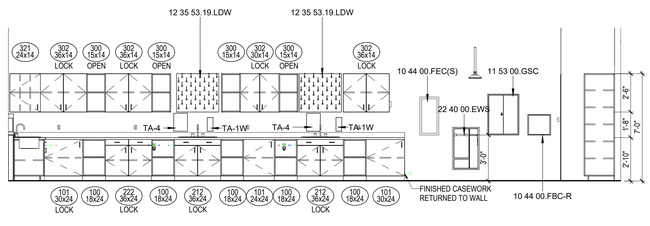
08 3112 BIO LAB SOUTH ELEV
1/4" = 1'-0"



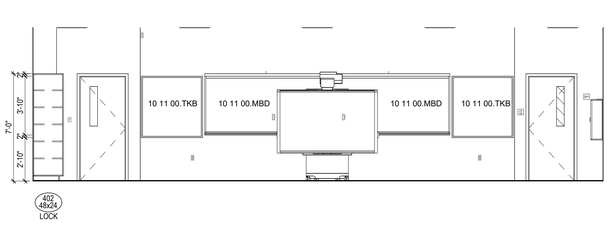
07 3112 BIO LAB WEST ELEV
1/4" = 1'-0"



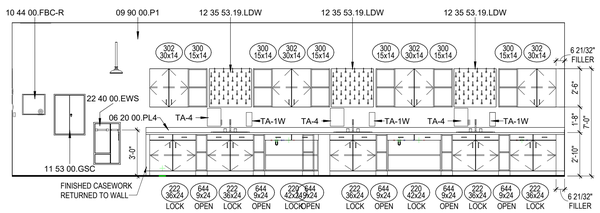
06 3112 BIO LAB NORTH ELEV
1/4" = 1'-0"



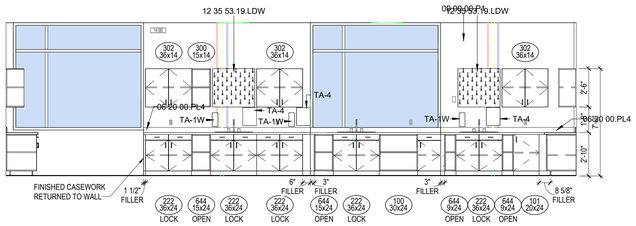
05 3112 BIO LAB EAST ELEV
1/4" = 1'-0"



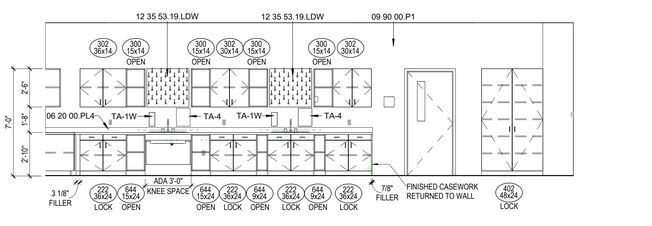
04 3108 BIO LAB SOUTH ELEV
1/4" = 1'-0"



03 3108 BIO LAB WEST ELEV
1/4" = 1'-0"



02 3108 BIO LAB NORTH ELEV
1/4" = 1'-0"



01 3108 BIO LAB EAST ELEV
1/4" = 1'-0"

Plot Stamp:
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

CASEWORK ELEVATION

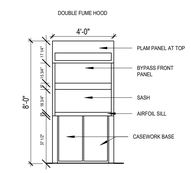
A-955

CASEWORK ELEVATION
A-956
FOR BLUEBEAM LABELING/DCR:

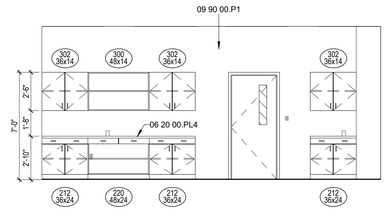
0"
1"

KEYNOTE LEGEND

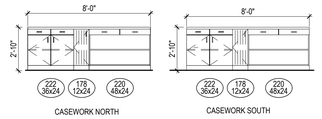
NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FBC-R	ROLLER-TYPE FIRE BLANKET CABINET
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



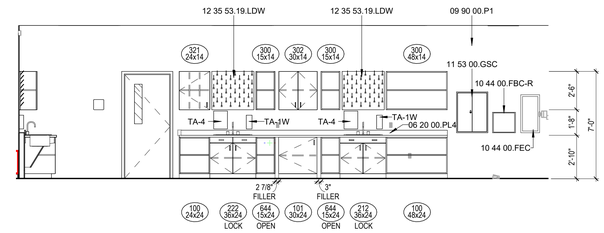
07 SCIENCE LABS TYP DOUBLE FUME HOOD ELEV
1/4" = 1'-0"



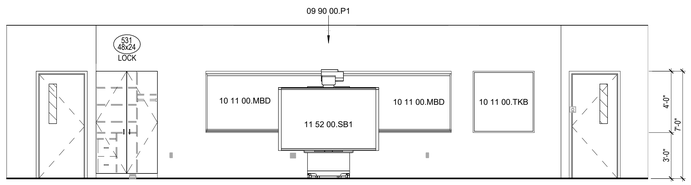
06 1132 TESTING/STORAGE SOUTH ELEVATION
1/4" = 1'-0"



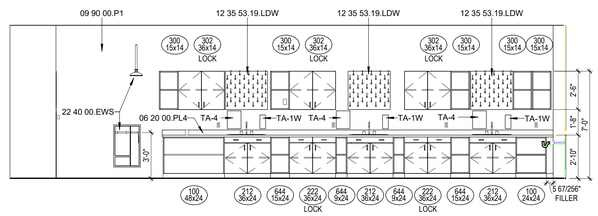
05 1132 TESTING/STORAGE ISLAND
1/4" = 1'-0"



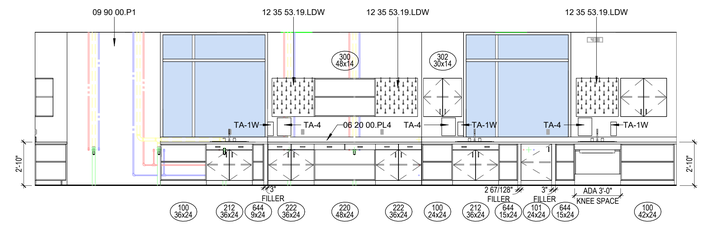
04 3119 BIO LAB EAST ELEV
1/4" = 1'-0"



03 3119 BIO LAB SOUTH ELEV
1/4" = 1'-0"



02 3119 BIO LAB WEST ELEV
1/4" = 1'-0"



01 3119 BIO LAB NORTH ELEV
1/4" = 1'-0"

Plot Stamp:
12/5/2025 3:15:53 PM

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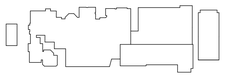
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

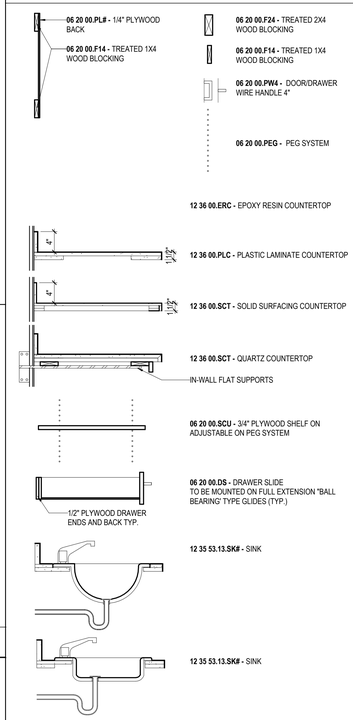
CASEWORK ELEVATION

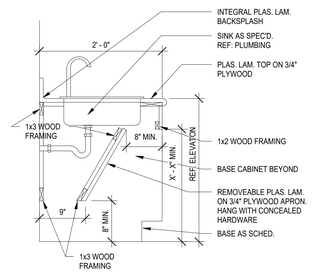
A-956

0"
1"

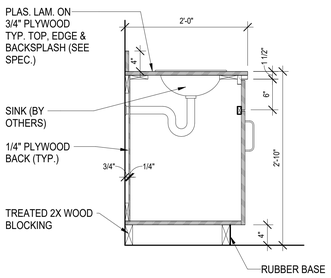
CASEWORK DETAILS
A-961
FOR BLUEBEAM LABELING/DOOR:

CASEWORK SECTION SYMBOL LEGEND

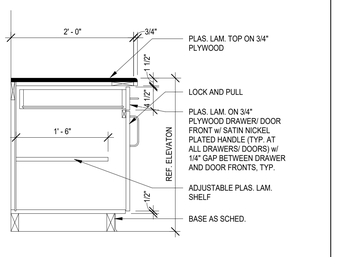




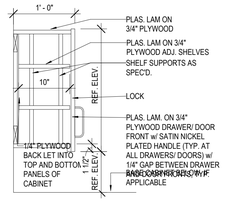
11 CASEWORK SECTION
1" = 1'-0"



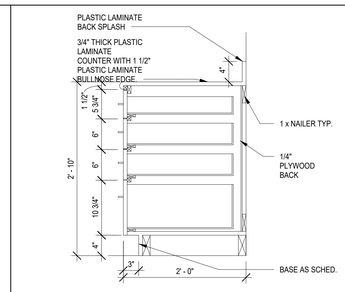
10 TYP BASE CABINET WITH SINK
1" = 1'-0"



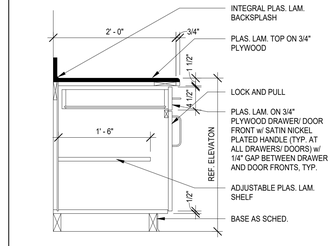
09 TYP CABINET W/DRAWER - NO BACKSPLASH
1" = 1'-0"



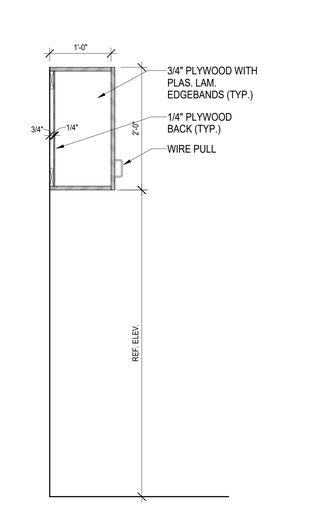
08 A-DTCS-UPPER CABINET 2-14460
1" = 1'-0"



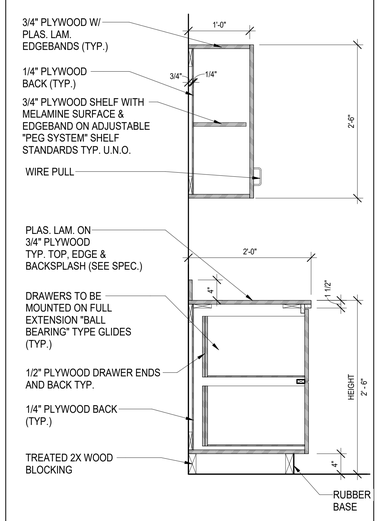
07 A-DTCS-CABINET SECTION-14231
1" = 1'-0"



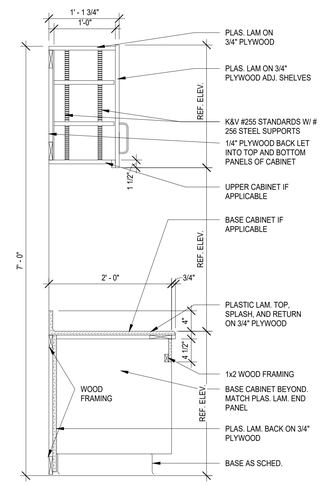
06 A-DTCS-BASE w/ ADJ SHELF-14231
1" = 1'-0"



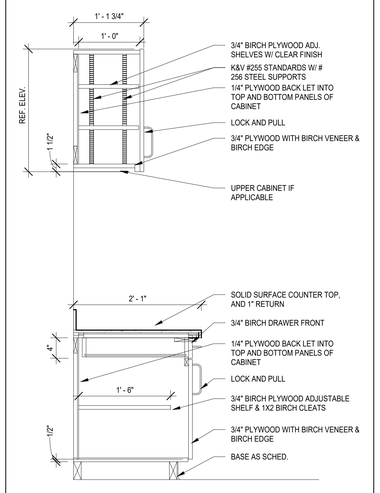
05 TYP UPPER CABINET
1" = 1'-0"



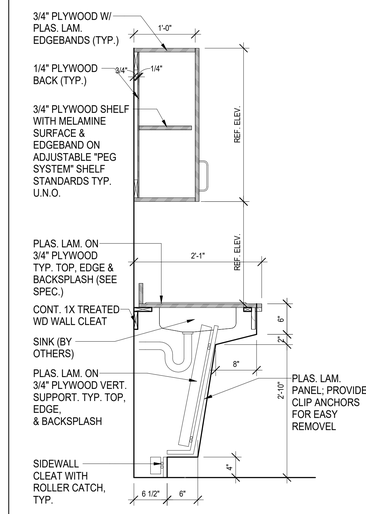
04 TYP CABINET - FILE DRAWERS / UPPER
1" = 1'-0"



03 CABINET SECTION AT KNEE SPACE
1" = 1'-0"



02 CABINET SECTION
1" = 1'-0"



01 CABINET SECTION AT SINK
1" = 1'-0"

PBK
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713-865-0008

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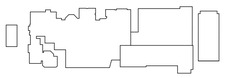
1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
GP
WELLNESS WALL FOR PEACE



KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JOHN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

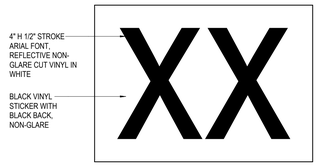
CASEWORK DETAILS

A-961

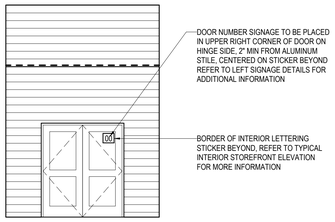
Plot Stamp:
12/5/2025 3:15:54 PM

SIGNAGE GRAPHIC STANDARDS
AG051
FOR BLUEBEAM LABELING/DOOR:

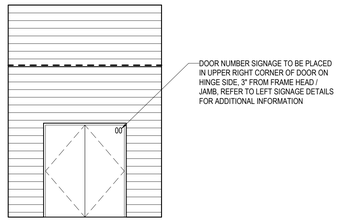
0"
1"



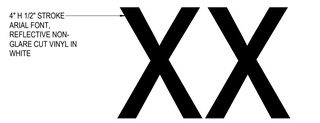
DOOR NUMBER SIGNAGE ON INTERIOR GLASS



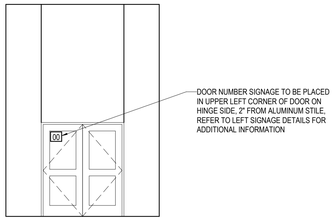
TYPICAL EXTERIOR STOREFRONT
***ALL EXTERIOR MOUNTED STICKERS TO BE EXTERIOR GRADE**



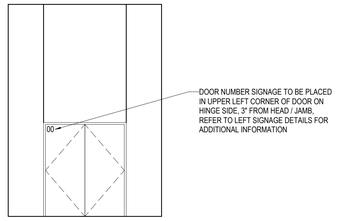
TYPICAL EXTERIOR METAL DOOR
***ALL EXTERIOR MOUNTED STICKERS TO BE EXTERIOR GRADE**



DOOR NUMBER SIGNAGE ON HOLLOW METAL OR EXTERIOR GLASS



TYPICAL INTERIOR STOREFRONT

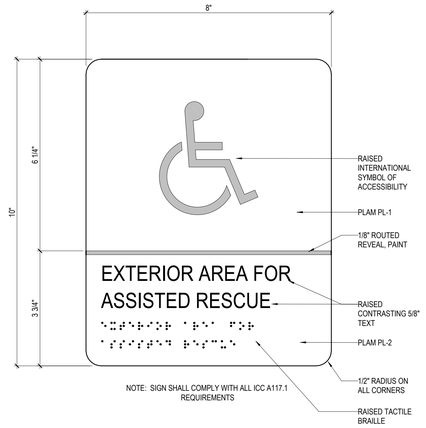


TYPICAL INTERIOR METAL DOOR

02 SIGNAGE - DOOR NUMBER GRAPHICS
6" = 1'-0"

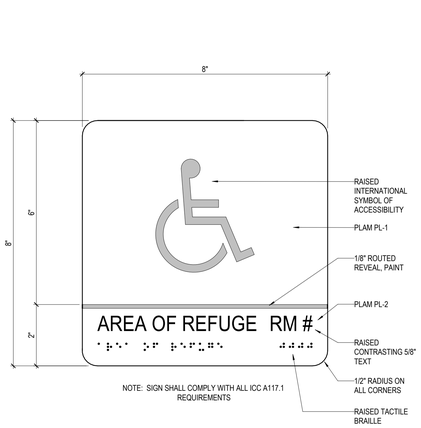
GENERAL GRAPHICS NOTES

1. ALL GRAPHIC SIGNAGE SHALL BE COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS, VERIFY REQUIREMENTS AND COMPLIANCE PRIOR TO FABRICATION.
2. PROVIDE AND INSTALL ONE SIGN FOR EVERY DOOR IN DOOR SCHEDULE, PLUS ONE SIGN FOR EVERY PERMANENT ROOM AND OR SPACE WITHOUT A DOOR.
3. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO DOOR OR AT DOUBLE LEAF DOOR LOCATIONS, INSTALL SIGN ON THE NEAREST ADJACENT WALL.
4. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE.
5. CHARACTER FONTS SHALL BE UPPERCASE, SANS SERIF, HELVITICA MEDIUM, NON-ITALIC, NON-OBLIQUE, NON-SCRIPT, NON-DECORATIVE, RAISED 1/32 INCH, PAINTED WHITE.
6. CHARACTER FONT PROPORTIONS SHALL BE HAVE A WIDTH OF THE UPPERCASE LETTER "O" 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
7. CHARACTER FONT HEIGHT SHALL BE 5/8 INCH HIGH MINIMUM AND 2 INCH HIGH MAXIMUM.
8. CHARACTER FONT STROKE THICKNESS OF THE UPPER CASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
9. CHARACTER FONT SPACING OF CHARACTERS WITH RECTANGULAR CROSS SECTIONS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
10. CHARACTER FONT SPACING OF CHARACTERS WITH NON-RECTANGULAR CROSS SECTIONS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SETCIONS.
11. CHACTER FONTS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
12. GRADE 2 BRAILLE SHALL ACCOMPANY ALL RAISED TEXT. BRAILLE DOTS SHALL HAVE DOMED OR ROUNDED SHAPE, AND BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
13. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
14. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MINIMUM IN HEIGHT.
15. SIGN MATERIAL SHALL BE 1/4 INCH THICK WITH MATTE, NON-GLARE PLASTIC LAMINATE FRONT FACE AND MATTE, NON-GLARE PLASTIC LAMINATE BACK FACE. CHARACTER AND SYMBOL COLOR SHALL CONTRAST WITH BACKGROUND COLOR. COLORS SHALL BE SELECTED BY ARCHITECT AND OR OWNER.
16. SIGN EDGE SHALL BE PAINTED ALL AROUND TO MATCH SIGN FACE.
17. CONTRACTOR TO PROVIDE ONE SIGN PER DOOR OR NUMBER IN SCHEDULE WHICHEVER IS GREATER.



NOTE: SIGN SHALL COMPLY WITH ALL ICC A117.1 REQUIREMENTS

K EGRESS



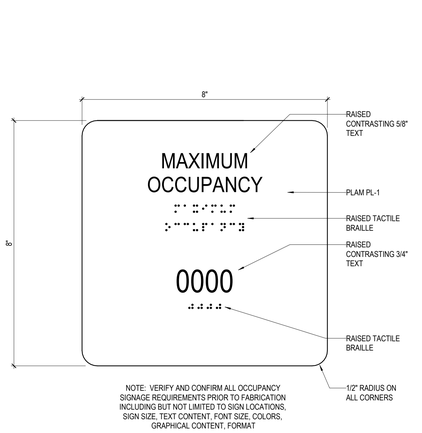
NOTE: SIGN SHALL COMPLY WITH ALL ICC A117.1 REQUIREMENTS

J EGRESS



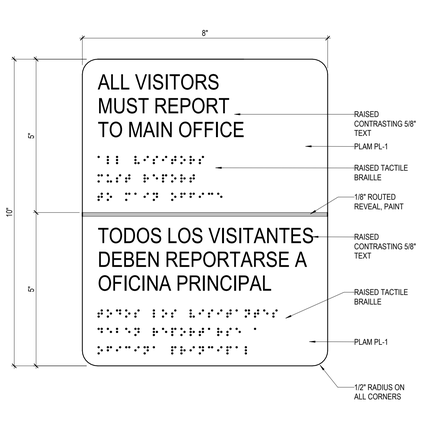
NOTE: VERIFY AND CONFIRM ALL EMERGENCY DIRECTIONAL SIGNAGE REQUIREMENTS PRIOR TO FABRICATION INCLUDING BUT NOT LIMITED TO SIGN LOCATIONS, SIGN SIZE, TEXT CONTENT, FONT SIZE, COLORS, GRAPHICAL CONTENT, FORMAT

H EGRESS

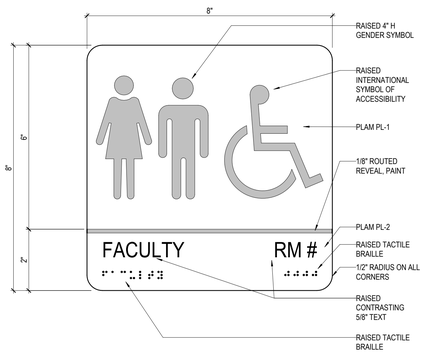


NOTE: VERIFY AND CONFIRM ALL OCCUPANCY SIGNAGE REQUIREMENTS PRIOR TO FABRICATION INCLUDING BUT NOT LIMITED TO SIGN LOCATIONS, SIGN SIZE, TEXT CONTENT, FONT SIZE, COLORS, GRAPHICAL CONTENT, FORMAT

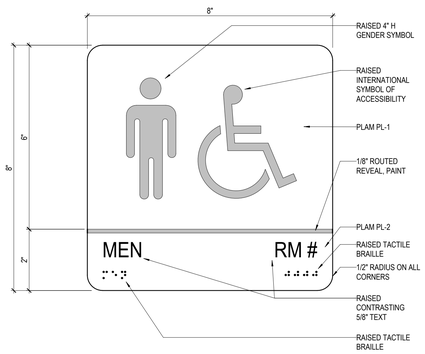
G ASSEMBLY



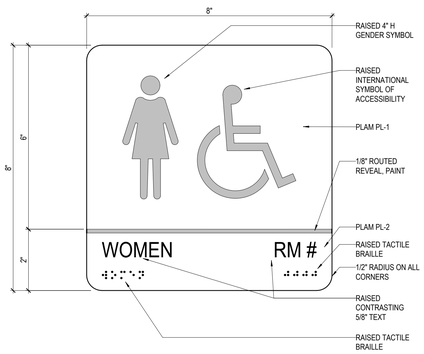
F ADMINISTRATIVE



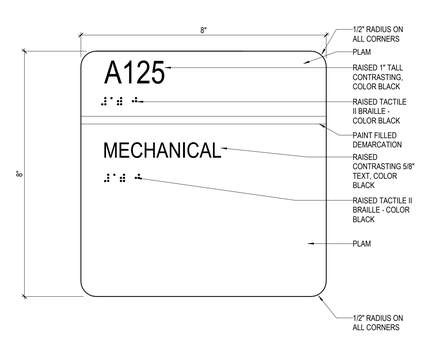
E FACULTY / ASSISTED USE / UNISEX



D MEN / BOYS



C WOMEN / GIRLS



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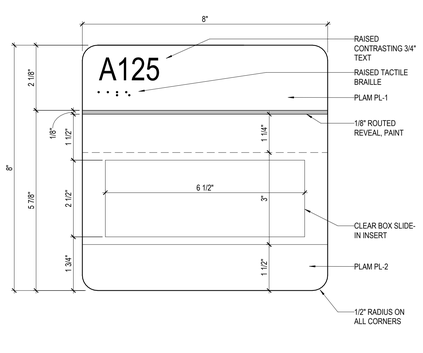

A ADMINISTRATIVE

01 SIGNAGE - GRAPHICS
6" = 1'-0"

Plot Stamp:
12/5/2025 3:15:58 PM

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT STATE OF TEXAS JAN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

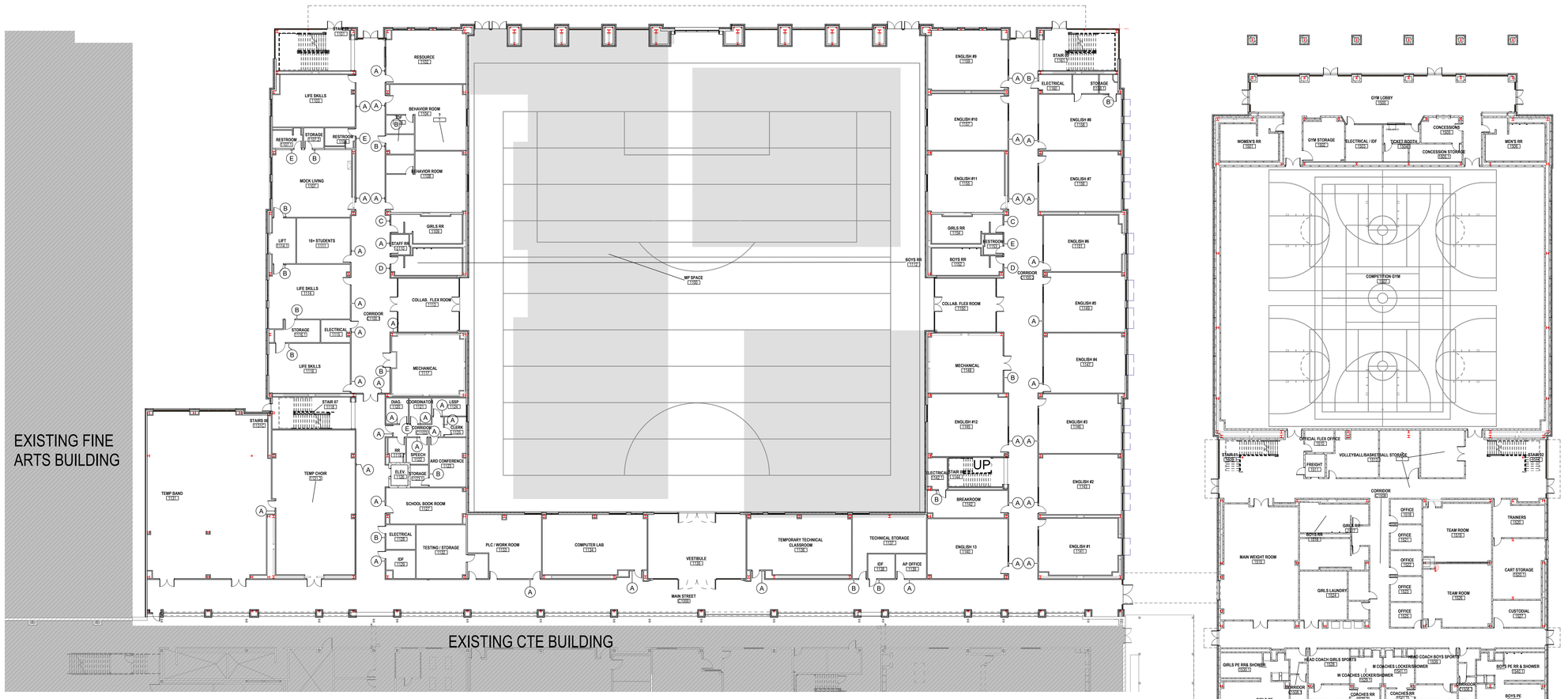
CHECKED BY: Checker
DRAWN BY: Author

SIGNAGE GRAPHIC STANDARDS

AG051

0"
1"

LEVEL 1 - OVERALL GRAPHICS & SIGNAGE PLAN
AG101
FOR BLUEBEAM LABELING/DOOR:



ROOM SIGNAGE SCHEDULE - 1ST LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
LEVEL 1					
113		CENTRAL PLANT (NIC)			
1100		MP SPACE			
1101		STAIR 09			
1102		RESOURCE			
1103		LIFE SKILLS			
1104		BEHAVIOR ROOM			
1104.1		STORAGE			
1105		RESTROOM			
1106		IDF			
1107		MOCK LIVING			
1107.1		RESTROOM			
1107.2		STORAGE			
1108		BEHAVIOR ROOM			
1108.1		STORAGE			
1109		GIRLS RR			
1110		STAFF RR			
1111		18+ STUDENTS			
1112		BOYS RR			
1113		COLLAB. FLEX ROOM			
1114		LIFE SKILLS			
1114.1		LIFT			
1115		ELECTRICAL			
1116		LIFE SKILLS			
1116.1		STORAGE			
1117		MECHANICAL			
1118		STAIR 07			
1119		RR			
1120		DIAG.			
1121		COORDINATOR			
1122		SPEECH			
1123		ARD CONFERENCE			
1123.1		STORAGE			
1124		LSSP			
1125		CLERK			
1126		ELEV.			
1127		SCHOOL BOOK ROOM		A	
1128		ELECTRICAL			
1129		IDF			
1131		TEMP BAND			
1131.3		TEMP CHOIR			
1131C		STAIRS 08			
1132		TESTING / STORAGE			
1132.1		TESTING OFFICE			
1133		PLC / WORK ROOM			
1134		COMPUTER LAB			
1135		VESTIBULE			
1136		TEMPORARY TECHNICAL CLASSROOM			
1137		TECHNICAL STORAGE			
1138		IDF			
1139		AP OFFICE			
1140		ENGLISH 13			
1141		ENGLISH #1			

ROOM SIGNAGE SCHEDULE - 1ST LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
1142		BREAKROOM			
1142.1		ELECTRICAL			
1143		ENGLISH #2			
1144		STAIR 06			
1145		ENGLISH #12			
1146		ENGLISH #3			
1147		ENGLISH #4			
1148		MECHANICAL			
1149		ENGLISH #5			
1150		COLLAB. FLEX ROOM			
1151		ENGLISH #6			
1152		BOYS RR			
1153		RESTROOM			
1154		GIRLS RR			
1155		ENGLISH #11			
1156		ENGLISH #7			
1157		ENGLISH #10			
1158		ENGLISH #8			
1158.1		STORAGE			
1159		ENGLISH #9			
1160		ELECTRICAL			
1161		STAIR 05			
1162		IDF			
1500		GYM LOBBY			
1501		WOMEN'S RR			
1502		GYM STORAGE			
1503		ELECTRICAL / IDF			
1504		TICKET BOOTH			
1504.1		TICKET BOOTH STORAGE			
1505		CONCESSIONS			
1505.1		CONCESSION STORAGE			
1506		MEN'S RR			
1507		COMPETITION GYM			
1509		STAIR 01			
1510		OFFICIAL FLEX OFFICE			
1511		FREIGHT			
1511.1		VISITOR / FLEX ROOM			
1512		ELECTRICAL			
1513		VOLLEYBALL/BASKETBALL STORAGE			
1514		STAIR 02			
1515		MAIN WEIGHT ROOM			
1516		BOYS RR			
1517		GIRLS RR			
1518		OFFICE			
1519		TEAM ROOM			
1520		TRAINERS			

ROOM SIGNAGE SCHEDULE - 1ST LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
1520.1		CART STORAGE			
1521		OFFICE			
1522		OFFICE			
1523		OFFICE			
1524		GIRLS LAUNDRY			
1524.1		IDF			
1524.2		FLEX OFF.			
1525		OFFICE			
1526		TEAM ROOM			
1527		CUSTODIAL			
1528		HEAD COACH GIRLS SPORTS			
1529		GIRLS SPORTS COACHES OFFICE			
1529.1		W COACHES LOCKER/SHOWER			
1529.2		COACHES RR			
1530		GIRLS PE			
1530.1		GIRLS PE RR& SHOWER			
1531		GIRLS BASKETBALL			
1531.1		STORAGE			
1532		GIRLS ATHLETIC RR / SHOWER			
1533		TRACK / CROSS COUNTRY			
1533.1		STORAGE			
1534		GIRLS VOLLEYBALL			
1534.1		STORAGE			
1535		CHEERLEADING			
1535.1		STORAGE			
1536		STAIR 04			
1537		GIRLS GOLF			
1538		GIRLS SOCCER			
1538.1		STORAGE			
1539		HEAD COACH BOYS SPORTS			
1540		BOYS PE			
1540.1		BOYS PE RR & SHOWER			
1541		BOYS SPORTS COACHES OFFICE			
1541.1		M COACHES LOCKER/SHOWER			
1541.2		COACHES RR			
1542		BOYS ATHLETIC RR / SHOWER			
1543		BOYS LAUNDRY			
1544		PUMP ROOM			
1545		IDF			
1546		BOYS BASKETBALL			
1546.1		STORAGE			
1547		BOYS GOLF STOR.			
1548		MECHANICAL			
1549		BOYS GOLF & CROSS COUNTRY			
1550		STAIR 03			
1550.1		MECHANICAL			
C1000		MAIN STREET			
C1100.1		CORRIDOR			
C1100.2		CORRIDOR			
C1103		CORRIDOR			
C1508		CORRIDOR			
C1508.1		CORRIDOR			
C1508.2		CORRIDOR			
C1508.3		CORRIDOR			
C1508.4		CORRIDOR			

01 LEVEL 1 - OVERALL GRAPHICS & SIGNAGE PLAN
1" = 20'-0"

Plot Stamp:
12/5/2025 3:16:05 PM

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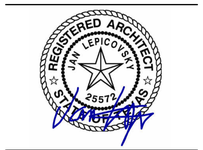


CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker

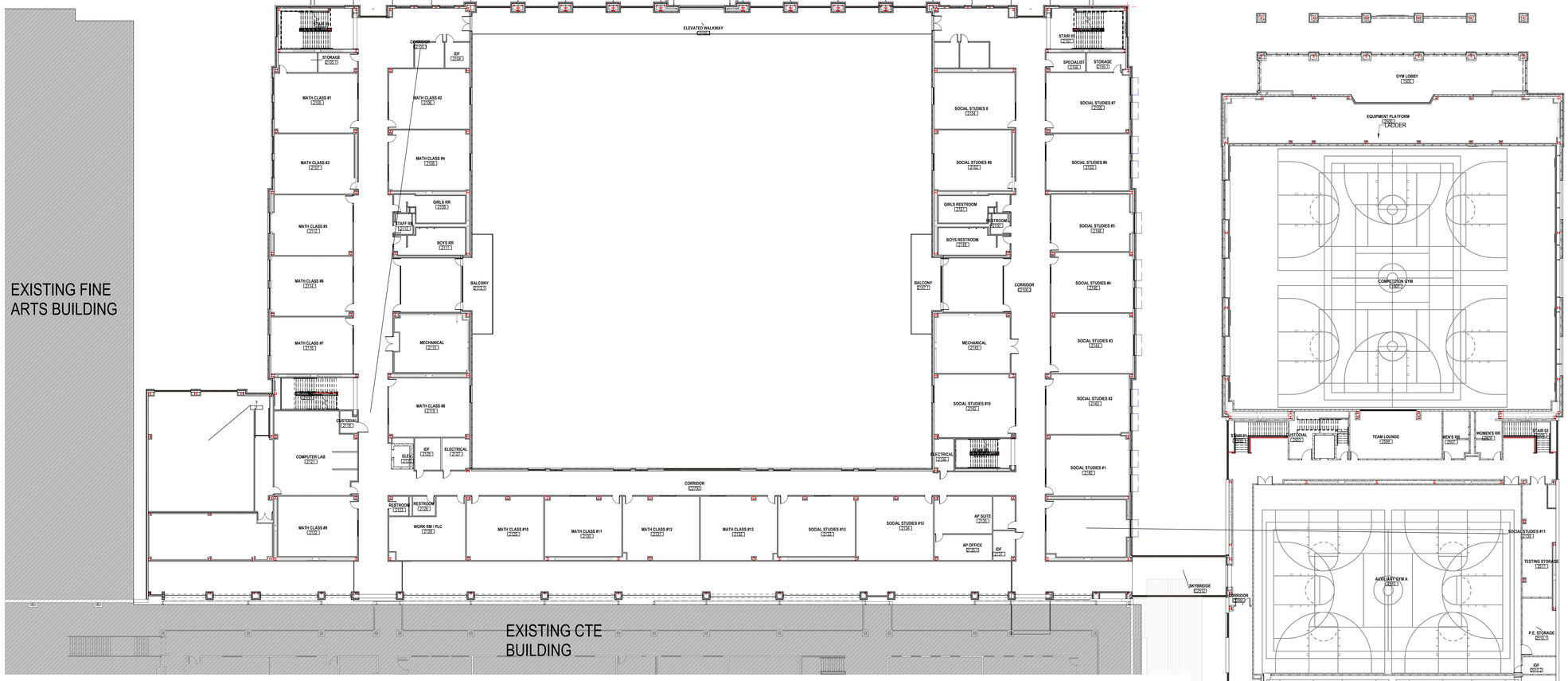
DRAWN BY: Author

LEVEL 1 - OVERALL GRAPHICS & SIGNAGE PLAN

AG101

0"
1"

LEVEL 2 - OVERALL GRAPHICS & SIGNAGE PLAN
AG102
FOR BLUEBEAM LABELING/DOOR:



ROOM SIGNAGE SCHEDULE - 2ND LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
LEVEL 2					
2101		STAIR 09			
2102		SPECIALIST			
2103		ELECTRICAL			
2104		IDF			
2105		MATH CLASS #1			
2105.1		STORAGE			
2106		MATH CLASS #2			
2107		MATH CLASS #3			
2108		MATH CLASS #4			
2109		GIRLS RR			
2110		STAFF RR			
2111		BOYS RR			
2112		MATH CLASS #5			
2113		COLLAB. FLEX ROOM			
2113.1		BALCONY			
2114		MATH CLASS #6			
2115		MECHANICAL			
2116		MATH CLASS #7			
2117		STAIR 07			
2118		CUSTODIAL			
2119		MATH CLASS #8			
2120		ELEV.			
2121		COMPUTER LAB			
2122		MATH CLASS #9			
2123		RESTROOM			
2124		MECH.			
2124.1		STAIR 08			
2125		IDF			
2126		RESTROOM			
2127		ELECTRICAL			
2128		WORK RM / PLC			
2129		MATH CLASS #10			
2130		MATH CLASS #11			
2131		MATH CLASS #12			
2132		MATH CLASS #13			
2133		SOCIAL STUDIES #13			
2134		SOCIAL STUDIES #12			
2135		AP SUITE			
2135.1		AP OFFICE			
2136		ELECTRICAL			
2137		IDF			
2138		SRO			
2139		SOCIAL STUDIES #11			
2140		SOCIAL STUDIES #1			
2141		STAIR 06			
2142		SOCIAL STUDIES #10			

ROOM SIGNAGE SCHEDULE - 2ND LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
2143		SOCIAL STUDIES #2			
2144		SOCIAL STUDIES #3			
2145		MECHANICAL			
2146		SOCIAL STUDIES #4			
2147		COLLAB. FLEX ROOM			
2147.1		BALCONY			
2148		SOCIAL STUDIES #5			
2149		BOYS RESTROOM			
2150		RESTROOM			
2151		GIRLS RESTROOM			
2152		SOCIAL STUDIES #9			
2153		SOCIAL STUDIES #6			
2154		SOCIAL STUDIES 8			
2155		SOCIAL STUDIES #7			
2155.1		STORAGE			
2156		SPECIALIST			
2157		STAIR 05			
2158		ELECTRICAL			
2159		IDF			
2500		EQUIPMENT PLATFORM			
2502		STAIR 01			
2503		CUSTODIAL			
2504		FREIGHT			
2505		STAIR 10			
2506		TEAM LOUNGE			
2507		MEN'S RR			
2508		WOMEN'S RR			
2509		STAIR 02			
2510		AUXILIARY GYM A			
2510.1		P.E. STORAGE			
2510.2		IDF			
2511		TESTING STORAGE			
2512.1		ELECTRICAL			
2512.2		MECHANICAL			
2512.3		STAIRS 03			
2513		STAIRS 04			
2513		AUXILIARY GYM B			
C2100.1		CORRIDOR			
C2100.2		CORRIDOR			
C2100.3		ELEVATED WALKWAY			
C2501		CORRIDOR			
C2501.1		CORRIDOR			
C2512		SKYBRIDGE			
C2700		CORRIDOR			

01 LEVEL 2 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

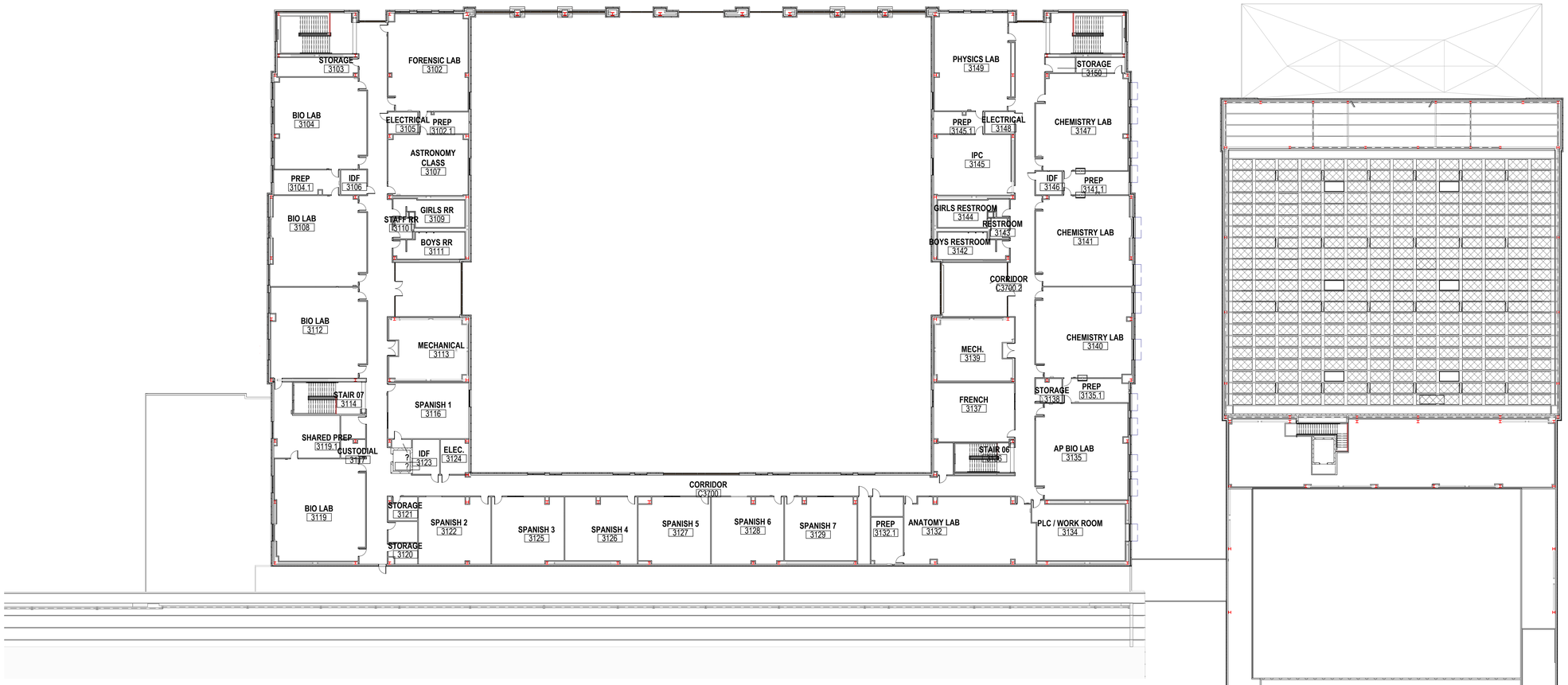
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - OVERALL GRAPHICS & SIGNAGE PLAN

AG102

0"
1"

LEVEL 3 - OVERALL GRAPHICS & SIGNAGE PLAN
AG103
FOR BLUEBEAM LABELING/DOOR:



ROOM SIGNAGE SCHEDULE - 3RD LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
LEVEL 3					
1000		MULTI-PURPOSE			
1132D		STAIR 10			
1132E		FREIGHT			
3101		STAIR 09			
3102		FORENSIC LAB			
3102.1		PREP			
3103		STORAGE			
3104		BIO LAB			
3104.1		PREP			
3105		ELECTRICAL			
3106		IDF			
3107		ASTRONOMY CLASS			
3108		BIO LAB			
3109		GIRLS RR			
3110		STAFF RR			
3111		BOYS RR			
3112		BIO LAB			
3113		MECHANICAL			
3114		STAIR 07			
3115		SRO			
3116		SPANISH 1			
3116.1		ELEV. SWITCH			
3117		CUSTODIAL			
3118		ELEV.			
3119		BIO LAB			
3119.1		SHARED PREP			
3120		STORAGE			
3120.1		STORAGE			
3121		STORAGE			
3122		SPANISH 2			
3123		IDF			
3124		ELEC.			
3125		SPANISH 3			
3126		SPANISH 4			
3127		SPANISH 5			
3128		SPANISH 6			
3129		SPANISH 7			
3130		MECH. ACCESS			
3131		IDF			
3132		ANATOMY LAB			
3132		STAIR 03			
3132.1		PREP			
3133		ELEC.			
3134		PLC / WORK ROOM			
3135		AP BIO LAB			
3135.1		PREP			
3136		STAIR 06			
3137		FRENCH			

ROOM SIGNAGE SCHEDULE - 3RD LEVEL

PLAN ROOM NUMBER	SIGNAGE ROOM NUMBER	PLAN ROOM NAME	SIGNAGE ROOM NAME	SIGN TYPE	NOTES
3138		STORAGE			
3139		MECH.			
3140		CHEMISTRY LAB			
3141		CHEMISTRY LAB			
3141.1		PREP			
3142		BOYS RESTROOM			
3143		RESTROOM			
3144		GIRLS RESTROOM			
3145		IPC			
3145.1		PREP			
3146		IDF			
3147		CHEMISTRY LAB			
3147.1		STORAGE			
3148		ELECTRICAL			
3149		PHYSICS LAB			
3150		STORAGE			
3151		STAIRS 05			

01 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - OVERALL GRAPHICS & SIGNAGE PLAN

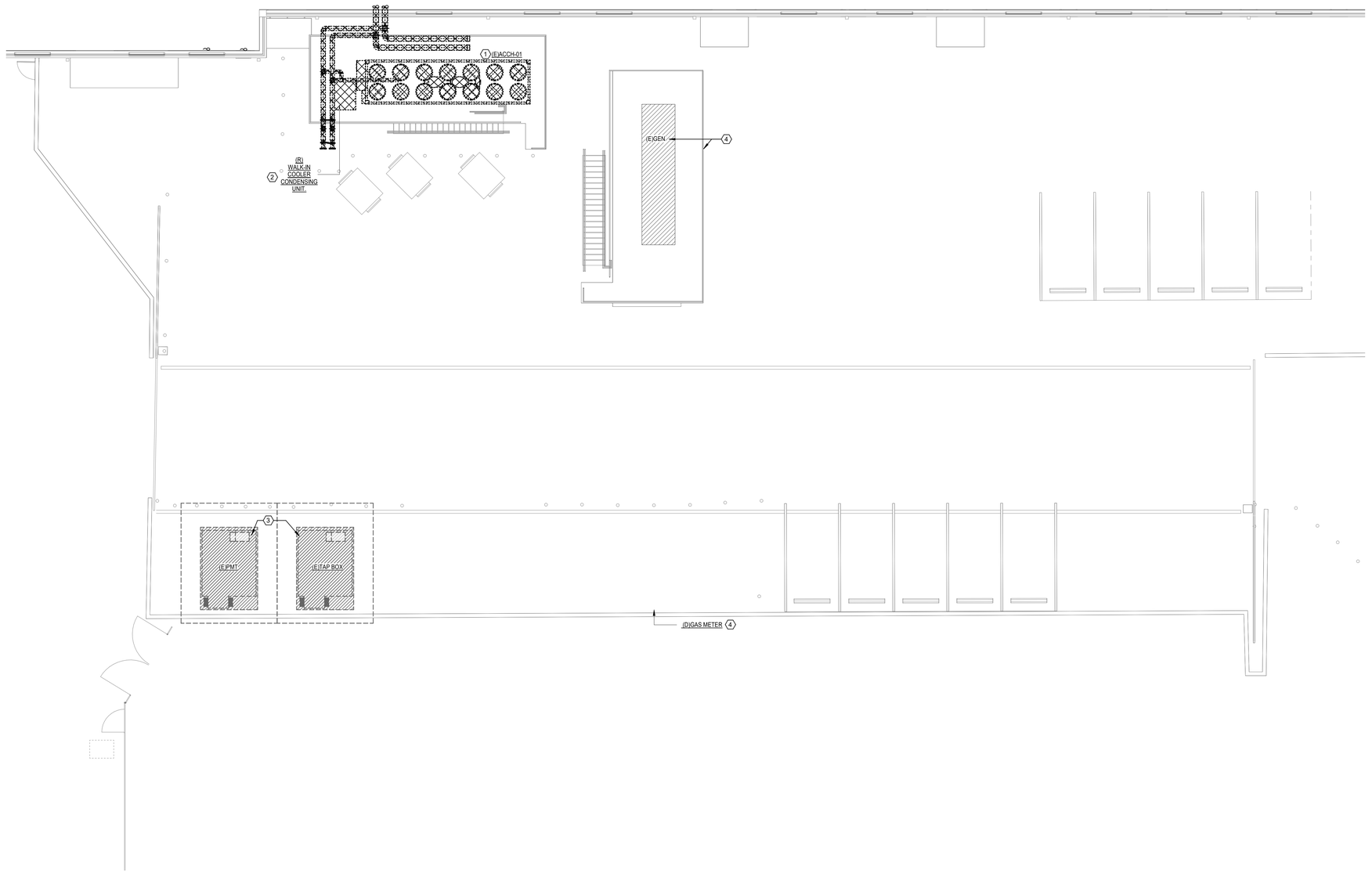
AG103

0"
1"

MEPT MECHANICAL YARD DEMO SITE PLAN
MEPTD-100
FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. EXISTING CHILLER TO BE RELOCATED DURING THE SUMMER OF 2026 TO MAKE SPACE FOR ARRIVAL OF NEW CENTRAL PLANT. SEE MD-101HT FOR DETAILS. EXISTING CHILLER PLATFORM TO BE DEMOLISHED AND DISPOSED OF AS DIRECTED BY OWNER.
2. EXISTING WALK-IN COOLER TO RELOCATED TO NEW LOCATION DURING THE SUMMER OF 2026 TO MAKE SPACE FOR ARRIVAL OF NEW CENTRAL PLANT. SEE MD-101HT FOR DETAILS. SEE M-101HT FOR NEW LOCATION.
3. EXISTING PAD MOUNTED TRANSFORMER AND TAP BOX TO REMAIN.
4. EXISTING GAS METER TO BE DEMOLISHED. SEE PD-101 FOR DETAILS.
5. EXISTING GENERATOR AND GENERATOR PLATFORM. GENERATOR PLATFORM TO BE MODIFIED TO ACCOMMODATE NEW PKG 3C CENTRAL PLANT. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.



1 MEP MECHANICAL YARD DEMO SITE PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MEPT MECHANICAL YARD DEMO SITE PLAN

MEPTD-100

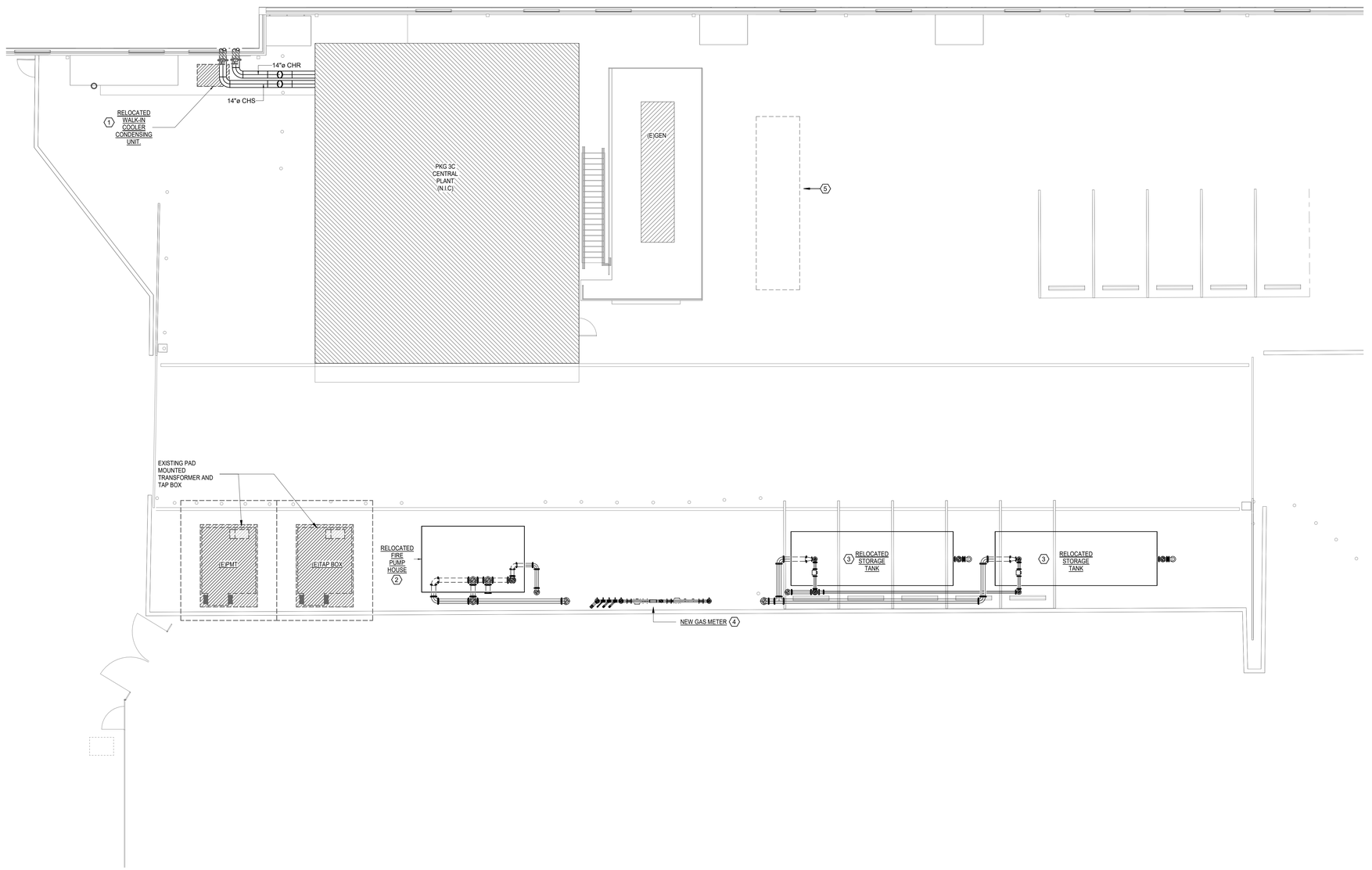
Plot Stamp:
12/3/2025 6:00:28 PM

MEPT MECHANICAL YARD SITE PLAN
MEPT-100
FOR BLUEBEAM LABELING/OCR:

0"
1"

MECHANICAL KEYED NOTES:

1. RELOCATED WALK IN COOLER. SEE M-101HT FOR DETAILS.
2. NEW LOCATION FOR RELOCATED FIRE PUMP HOUSE. SEE PD-101 AND PS-101 FOR RELOCATION DETAILS.
3. NEW LOCATION FOR RELOCATED STORAGE TANKS. SEE PD-101 AND PS-101 FOR RELOCATION DETAILS.
4. NEW GAS METER. SEE PS-101 FOR DETAILS.
5. GENERAL LOCATION OF TEMPORARY AIR COOLED CHILLER WHILE AWAITING ARRIVAL OF PKG 3C CENTRAL PLANT. SEE M-101HT FOR DETAILS



1 MEPT MECHANICAL YARD SITE PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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CLIENT PROJECT NO: 240539
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EXCELLENCE IN ALL YOU DO

KEY PLAN
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STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MEPT MECHANICAL YARD SITE PLAN

MEPT-100

Plot Stamp:
12/3/2025 6:00:32 PM

MECHANICAL GENERAL NOTES AND LEGENDS
M-001
FOR BLUEBEAM LABELING/OCR:

0"
1"

MECHANICAL PIPING LEGEND

DESCRIPTION	ABBV.
PUMPED CONDENSATE RETURN	PCR
HOT WATER SUPPLY	HWS
HOT WATER RETURN	HWR
CONDENSER WATER SUPPLY	CWS
CONDENSER WATER RETURN	CWR
CHILLED WATER SUPPLY	CHS
CHILLED WATER RETURN	CHR
CONDENSATE DRAIN (INSULATED)	CD
REFRIGERANT LINE (LIQUID)	RL
REFRIGERANT LINE (SUCTION)	RS
REFRIGERANT LINE (HOT GAS)	RHG
LOW PRESSURE CONDENSATE	LPC
MEDIUM PRESSURE CONDENSATE	MPC
HIGH PRESSURE CONDENSATE	HPC

MECHANICAL PIPING SYMBOLS LEGEND

DRAWINGS	DETAILS	DESCRIPTION
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		GATE VALVE
		BALL VALVE
		CHECK VALVE
		SUPERVISED VALVE WITH FLOW SWITCH
		PLUG VALVE / GAS COCK
		BUTTERFLY VALVE
		HOT WATER BALANCING VALVE
		PIPE UNION
		PRESSURE CONTROL VALVE
		3-WAY VALVE
		SOLENOID VALVE
	FS	FLOW SWITCH
		PRESSURE GAUGE WITH GAUGE COCK
		THERMOMETER
		T & P RELIEF VALVE
		STRAINER
		CAP
		FLEXIBLE CONNECTION
		NEW CONNECTION TO EXISTING PIPING

NOTES:

1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

MECHANICAL RENOVATIONS NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID DATE.
2. OWNER RETAINS SALVAGE RIGHTS, PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO REMOVAL OF EQUIPMENT.
3. PATCH AND SEAL ALL SLAB, ROOF AND WALL OPENINGS WITH LIKE MATERIAL WHERE MECHANICAL EQUIPMENT ONCE PENETRATED.
4. ALL FLOOR DRAINS EXISTING TO REMAIN. CONTRACTOR SHALL CLEAN AND KEEP FLOOR DRAINS UNOBSTRUCTED AND REUSE.
5. UNLESS SHOWN OTHERWISE, CONTRACTOR SHALL UTILIZE EXISTING OPENINGS IN WALLS, ROOF AND FLOOR SLABS FOR PIPING ETC. PROVIDE NEW SLEEVES FOR PIPING AND INFILL ANNULAR SPACES.
6. FLUSH AND CLEAN EXISTING CHILLED WATER LOOPS AND PROVIDE NEW CHEMICAL TREATMENT.
7. CONTRACTOR TO AVOID EXISTING CABLE RUNS DURING CONSTRUCTION.
8. PROVIDE ALL NEW PIPE SUPPORTS WHERE PIPING IS SCHEDULED TO BE REPLACED.
9. RE-INSTALL ANY CEILING AFTER COMPLETION OF WORK. REPLACE ANY EXISTING DAMAGED CEILING TILES IN THE AREAS OF CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN EXISTING BUILDING CLIMATE CONTROLLED DURING CONSTRUCTION. ALL REQUIRED EQUIPMENT AND ASSOCIATED POWER, WIRING SHALL BE PROVIDED BY THE CONTRACTOR.
11. CONTRACTOR TO PROVIDE NEW DUCT DETECTOR AS REQUIRED BY CODE ON ALL AIR HANDLING UNITS EQUAL TO OR MORE THAN 2,000 CFM SUPPLY. DETECTOR MANUFACTURER TO MATCH EXISTING DEVICES AND BE COMPATIBLE WITH EXISTING FACP. CONTRACTOR TO PROVIDE AND INSTALL ALL CABLING AND EQUIPMENT/MODULES AS REQUIRED TO CONNECT ADDITIONAL DEVICES TO EXISTING FIRE ALARM CONTROL PANEL.

MECHANICAL DEMOLITION NOTES

1. DEMOLISH EQUIPMENT SCHEDULED FOR REPLACEMENT. EQUIPMENT NOT SCHEDULED FOR REPLACEMENT SHALL REMAIN IN WORKING CONDITIOM.
2. PATCH AND SEAL ALL ROOF AND WALL OPENINGS WHERE MECHANICAL EQUIPMENT ONCE PENETRATED.
3. DEMOLITION DOES NOT INCLUDE PLUMBING EQUIPMENT.
4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION TO PRIOR TO DEMOLITION.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES.

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION	ABBV.
	SUPPLY AIR CEILING DIFFUSER	SAG/SAR
	RETURN AIR GRILLE / REGISTER	RAG / RAR
	EXHAUST GRILLE / REGISTER	EG / ER
	SUPPLY AIR CEILING DIFFUSER	CD
	LINEAR SLOT DIFFUSER	LD
	SIDEWALL SUPPLY AIR GRILLE/REGISTER	SAG/SAR
	SIDEWALL RETURN AIR GRILLE/REGISTER	RAG/RAR
	DUCT MT'D. SIDEWALL SUPPLY AIR GRILLE/REGISTER	SAG/SAR
	SUPPLY DUCT RISE/DROP	
	RETURN DUCT RISE/DROP	
	EXHAUST DUCT RISE/DROP	
	DOOR GRILLE	DG
UC 3/4"	UNDERCUT DOOR	UC
WxD TD	LINED RETURN TRANSFER DUCT ABOVE CEILING (SIZE AS INDICATED)	TD
	SQUARE ELBOW WITH DOUBLE THICKNESS TURNING VANES	
	VOLUME DAMPER	MVD
	FLEXIBLE DUCT	FLEX.CONN.
	NEW DUCTWORK	
	EXISTING DUCTWORK / EQUIPMENT	
	DEMO DUCTWORK / EQUIPMENT	
	NEW MECHANICAL EQUIPMENT	
T	THERMOSTAT SENSOR	
H	HUMIDISTAT SENSOR	
T1	COMBINATION TEMPERATURE AND CO2 SENSOR	
T2	COMBINATION TEMPERATURE, HUMIDITY, & CO2 SENSOR	
T3	COMBINATION TEMPERATURE & HUMIDITY SENSOR	
SD	SMOKE DAMPER	SD
FD	FIRE DAMPER	FD
FS	COMBINATION FIRE AND SMOKE DAMPER	F/SD
CO^2	CARBON DIOXIDE SENSOR	CO2
CO	CARBON MONOXIDE SENSOR	CO
BD	BAROMETRIC DAMPER	BD
Ƨ	SMOKE DETECTOR (BY DIVISION 28)	Ƨ
A	PNEUMATIC DAMPER ACTUATOR	A
BDD	BACKDRAFT DAMPER	BDD
FMS	FLOW MEASURING STATION	FMS
	SPIN-IN VOLUME DAMPER	
M	MOTORIZED DAMPER	M
	AIRFLOW DIRECTION	
	SUPPLY AIR	SA
	RETURN AIR	RA
	OUTSIDE AIR	OA
	EXHAUST AIR	EA
	OWNER-FURNISHED EQUIPMENT	OFE
	ABOVE FINISHED FLOOR	AFF
	BOTTOM OF DUCT	BOD
	NOT IN CONTRACT	NIC
	FURNISHED BY OTHERS	FBO
	REFLECTIVE CEILING PLAN	RCP
	EXISTING	(E)
	SCOPE OF WORK	SOW
	VARIABLE FREQUENCY DRIVE	VFD
	DISCONNECT FROM EXISTING	FBO
	CONNECT TO EXISTING	
1 / M.401	PLAN SECTION SECTION NUMBER SHEET NUMBER	
A,150	DIFFUSER SCHEDULE CFM	
RE:01/M-401	DRAWING REFERENCE DETAIL NUMBER SHEET NUMBER	

NOTES:

1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED AS PER THE LOCAL MECHANICAL CODE, THE LOCAL BUILDING CODES AND LOCAL ENERGY CONSERVATION CODE.
2. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS ESSENTIAL FOR A COMPLETE AND OPERATIONAL INSTALLATION OF THE HVAC WORK SHOWN ON THE PLANS.
3. ALL DUCTWORK SHALL BE FABRICATED PER THE LATEST SMACNA STANDARDS.
4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INFO FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA COST TO THE PROJECT SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK.
5. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
6. ALL NEW HVAC EQUIPMENT SHALL BE CLEANED AFTER THE FINISHING OF DRYWALL AND PRIOR TO THE RELEASE OF BUILDING TO THE OWNER. IF THE DUCTWORK AND AIR DEVICES ARE NOT PROPERLY PROTECTED DURING CONSTRUCTION THAN IT SHALL BE CLEANED AS WELL. CONTRACTOR TO PROVIDE DOCUMENTATION WITH DATE AND TIME OF ALL THE PERFORMED SERVICES.
7. ALL WALL MOUNTED TEMPERATURE, HUMIDITY AND CO2 SENSORS SHALL BE MOUNTED AT THE SAME ELEVATION AS THE LIGHT SWITCHES. COORDINATE WITH ELECTRICAL DRAWINGS AND ARCHITECTURAL ELEVATION PLAN.
8. REFER TO MECHANICAL ROOF PLAN FOR ROOF MOUNTED EQUIPMENTS.
9. REFER TO CHILLED WATER AND HEATING WATER PIPING DIAGRAMS FOR PIPE SIZES.
10. NEW PIPING TO BE INSTALLED AS TO NOT BLOCK ANY ACCESS DOORS FROM FULL SWING OPENING.
11. PRIOR TO INSTALLATION OF EQUIPMENT, VERIFY MANUFACTURER'S RECOMMENDED AND CODE REQUIRED CLEARANCES ARE AVAILABLE.
12. COORDINATE ALL WORK WITH ALL OTHER TRADES.
13. PROVIDE FIRE DAMPERS, SMOKE DAMPERS, OR COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTWORK AND RETURN AIR OPENINGS WHICH PENETRATE FIRE OR SMOKE RATED WALL OR FLOOR SLABS. FIRE OR SMOKE RATED WALLS CAN INCLUDE BUT NOT LIMITED TO CORRIDOR WALLS, MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. REFER TO ARCHITECTURAL PLANS FOR PARTITION AND WALL TYPES INDICATING FIRE OR SMOKE RATED WALL LOCATION AND RATING.
14. REFER TO ARCHITECTURAL LOUVER SCHEDULE AND ELEVATION PLANS FOR EXACT SIZE, LOCATION AND ELEVATION.
15. ALL FAN POWERED BOXES SHALL BE EQUIPPED WITH FACTORY PROVIDED AND MOUNTED INDUCED AIR INLET ELBOW SOUND ATTENUATOR.
16. ALL TERMINAL UNITS AND INLINE EXHAUST FANS SHALL BE INSTALLED IN PROPER ACCESSIBLE AREA.
17. PROVIDE 24"x24" ACCESS PANEL IN THE GYP BOARD CEILING WHERE TERMINAL UNITS AND INLINE EXHAUST FANS ARE INSTALLED. COORDINATE WITH ARCHITECTURAL CEILING PLANS.
18. COORDINATE ALL AIR DEVICES LOCATIONS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
19. ALL SUPPLY AND RETURN AIR CEILING DEVICES SHALL BE INSULATED ON TOP OF DEVICES TO PREVENT CONDENSATION. INSULATE DEVICES WITH 1-1/2" WRAPAROUND INSULATION AND TOTALLY COVER ALL SURFACES; SECURE INSULATION IN PLACE AND APPLY INSULATION PRIOR TO MOUNTING AIR DEVICES.
20. PROVIDE TURNING VANES ON ALL RECTANGULAR ELBOWS.
21. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL DUCT. REFER TO SPECIFICATION. PAINT DUCTWORK. COORDINATE COLOR WITH THE ARCHITECT.
22. PROVIDE 16x16 RETURN AIR OPENING IN WALL ABOVE CEILING WHERE WALLS GO UPTO DECK AND RETURN OPENING NOT SHOWN ON THE DRAWINGS. SHOW RETURN AIR OPENINGS IN DUCT SHOP DRAWINGS.
23. PROVIDE INTERNALLY LINED DUCT FOR THE FOLLOWING DUCTWORK UNLESS OTHERWISE NOTED ON THE DRAWINGS:
    - -FIRST 20'-0" OF SUPPLY AND RETURN DUCT FROM ROOF MOUNTED AIR HANDLING UNITS.
    - -FIRST 10'-0" OF ROOF MOUNTED EXHAUST FANS.
    - -ALL RETURN AIR BOOTS AND TRANSFER DUCTS.
24. BUILDING AUTOMATION SYSTEM THERMOGRAPHICS SHALL BE UPDATED TO REFLECT CURRENT FLOOR PLAN, ROOM NAMES AND ALL ASSOCIATED HVAC EQUIPMENT.
25. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ELECTRICAL AND PLUMBING CHANGES FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
26. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE BETWEEN CONTRACTORS SHALL BE WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
27. ALL DUCTWORK (SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR) IN UNCONDITIONED / NON-RETURN PLENUM SHALL BE PROVIDED WITH DUCT WRAP INSULATION.
28. REFER TO SNAP 'N SHIELD REFRIGERANT PIPING SUPPORT DETAIL FOR REFRIGERANT PIPING SUPPORT.
29. PROVIDE INSULATED CONDENSATE DRAIN PIPE FROM FLOOR MOUNTED OR SUSPENDED UNIT TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
30. PROVIDE CLEAR, WEATHERPROOF ENCLOSURE FOR THE CONTROL VALVE ACTUATORS LOCATED OUTDOORS.
31. ALL EXPOSED AND OUTDOOR REFRIGERANT AND CONDENSATE PIPING SHALL BE PROVIDED WITH INSULATION AND ALUMINUM JACKET.
32. ALL OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY PLUMBING VENT, FUEL-FIRED APPLIANCE VENT OR EXHAUST AIR DISCHARGE.
33. FOR ALL OPEN SPACES (MAIN CORRIDOR, GYM, CAFETERIA, LIBRARY ETC.), PROVIDE SENSORS IN CLEAR LOCKABLE PROTECTIVE ENCLOSURE.
34. NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED ON THESE DRAWINGS.
35. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT TAG / DESIGNATION NOTATIONS PRIOR TO ORDERING NEW EQUIPMENT SCHEDULED FOR REPLACEMENT.

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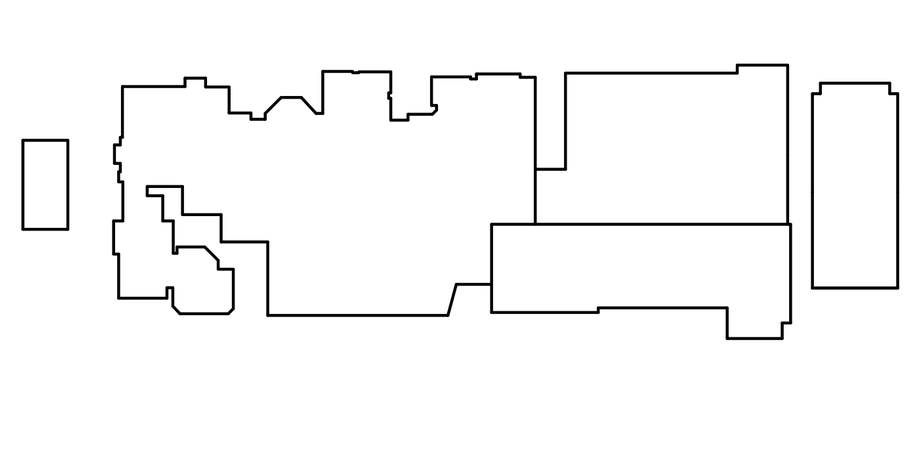
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

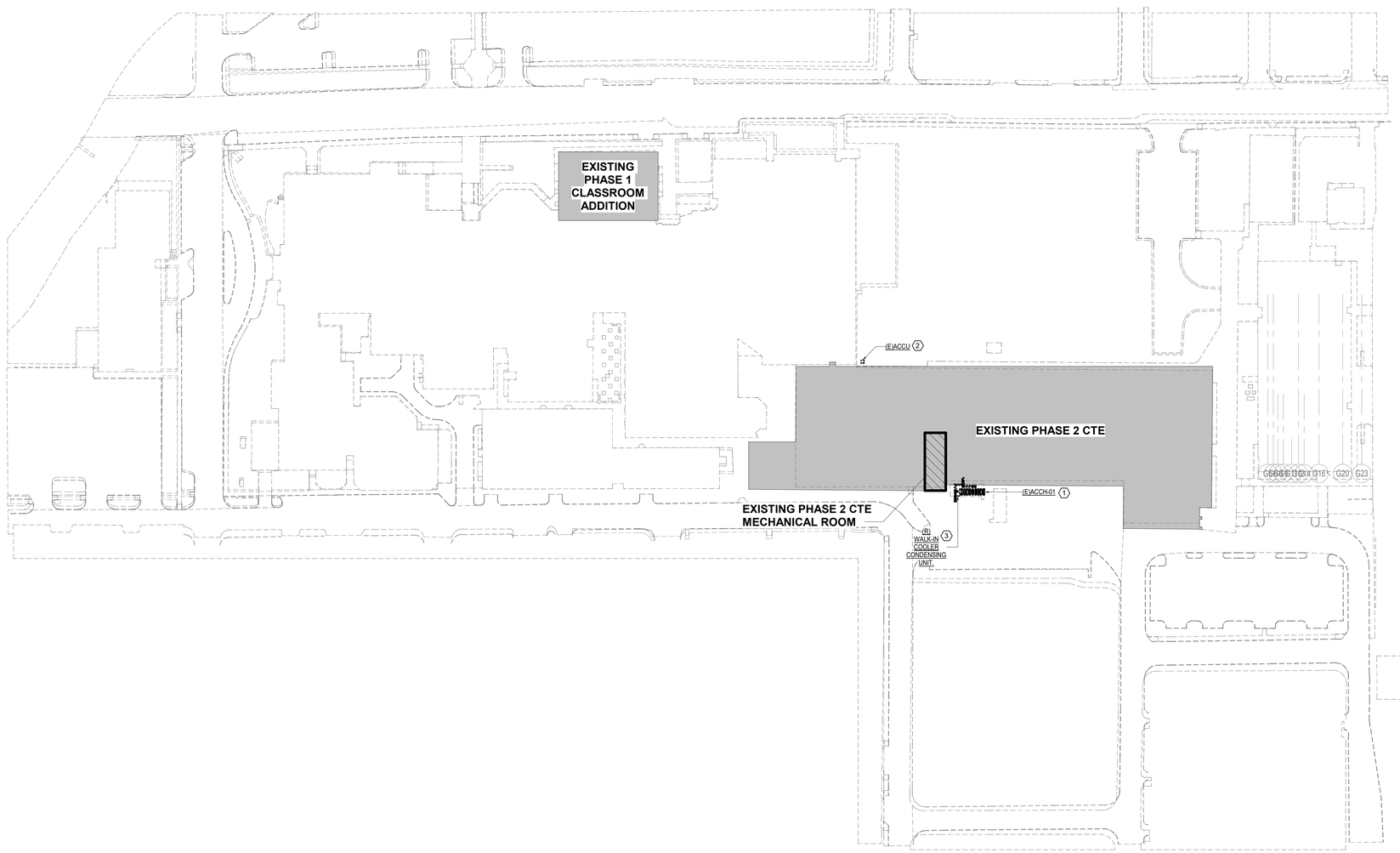
MECHANICAL GENERAL NOTES AND LEGENDS

M-001

Plot Stamp:
12/3/2025 6:00:33 PM

MECHANICAL DEMO SITE PLAN
MD-100
FOR BLUEBEAM LABELING/OCR:

0"
1"



MECHANICAL KEYED NOTES:

1. EXISTING CTE CHILLER TO BE RELOCATED TO MAKE ROOM FOR PKG. 3C CENTRAL PLANT. SEE MD-101HT FOR MORE DETAILS
2. EXISTING CONDENSING UNIT TO BE RELOCATED. EXISTING REFRIGERANT LINES TO BE EXTENDED. SEE MS-101 FOR NEW LOCATION.
3. EXISTING WALK-IN COOLER UNDER CHILLER PLATFORM TO RELOCATED DURING THE SUMMER OF 2026 TO MAKE SPACE FOR ARRIVAL OF NEW CENTRAL PLANT. SEE MD-101HT FOR DETAILS. SEE M-101HT FOR NEW LOCATION.

1 MECHANICAL DEMO SITE PLAN
SCALE: 1" = 60'-0"

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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
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December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: Author

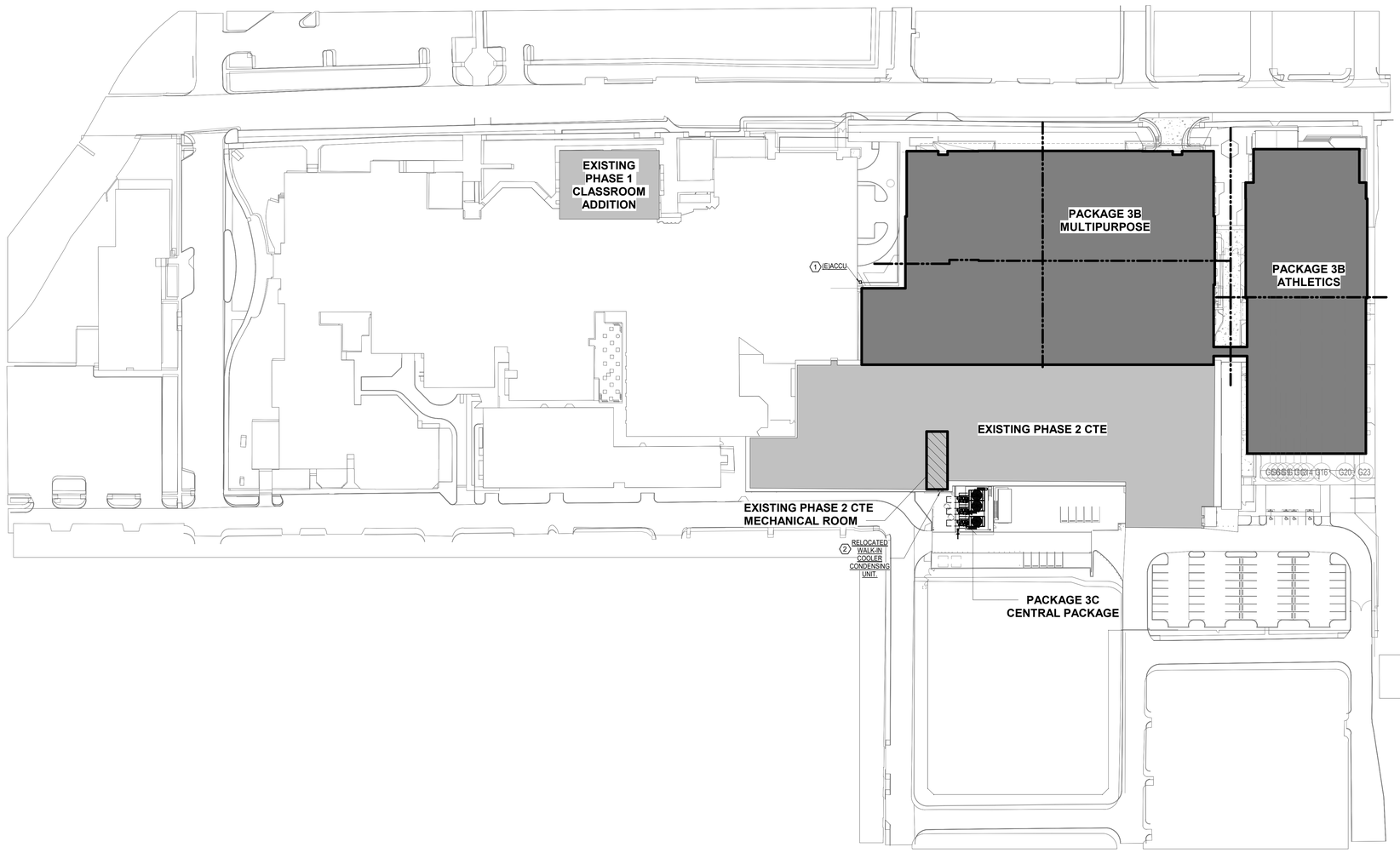
MECHANICAL DEMO SITE PLAN

MD-100

Plot Stamp:
12/3/2025 6:00:34 PM

MECHANICAL SITE PLAN
MS-100
FOR BLUEBEAM LABELING/OCR:

0"
1"



MECHANICAL KEYED NOTES:

1. EXISTING ACCU TO BE RELOCATED TO GENERAL LOCATION SHOWN AND REFRIGERANT LINES TO BE EXTENDED. CONFIRM LOCATION WITH OWNER AND ARCHITECT. PROVIDE NEW 12" TALL HOUSEKEEPING PAD THAT EXTENDS AT MINIMUM 6" ON ALL SIDES OF UNIT.
2. RELOCATED WALK IN COOLER. SEE M-101HT FOR DETAILS.

1 **MECHANICAL SITE PLAN**
SCALE: 1" = 60'-0"

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KEY PLAN
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STATE OF TEXAS
MITAL J. PATEL
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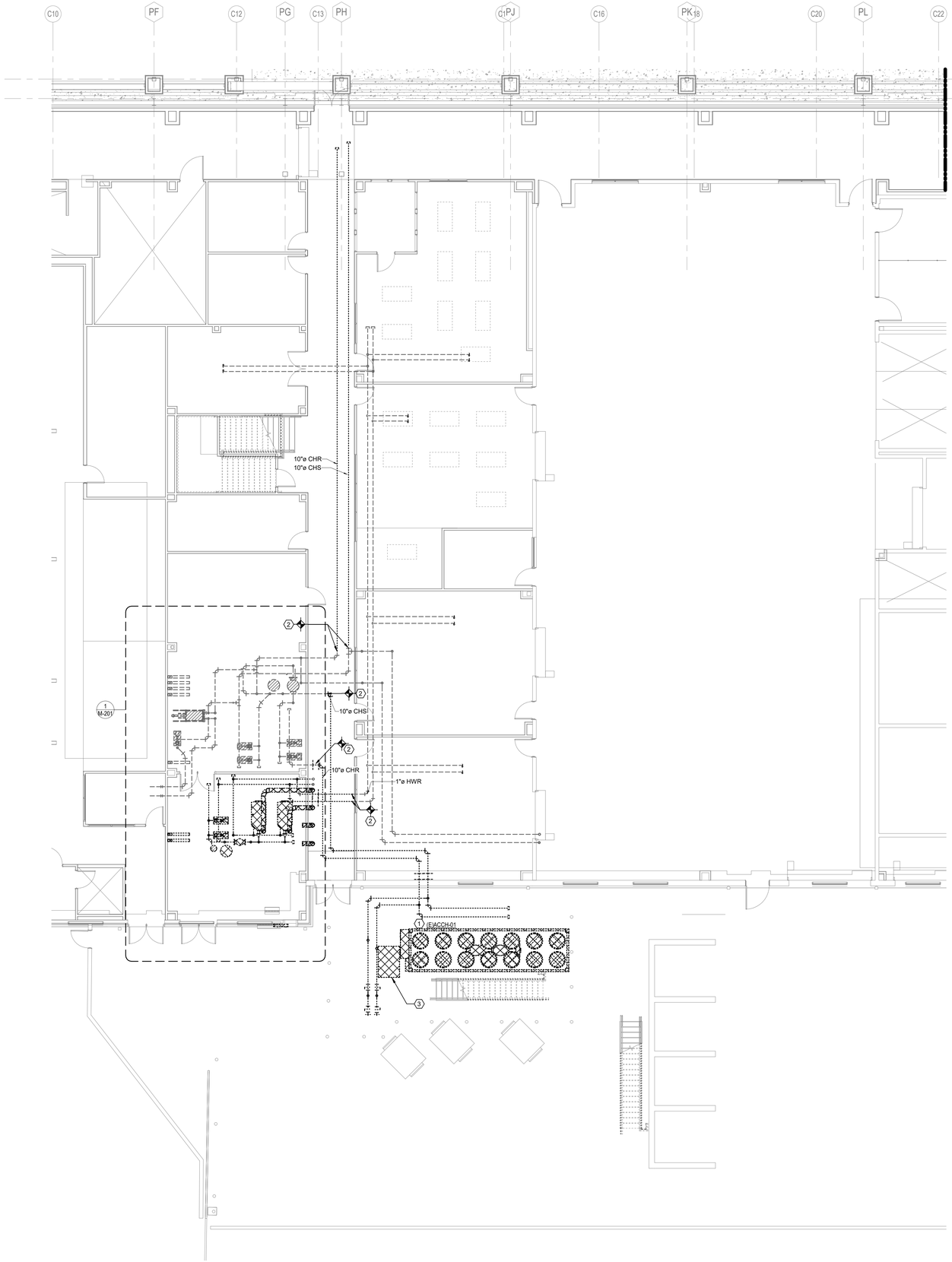
MECHANICAL SITE PLAN

MS-100

Plot Stamp:
12/3/2025 6:00:43 PM

0"
1"

1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE
MD-101HT
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. EXISTING CHILLER TO BE RELOCATED DURING THE SUMMER OF 2026 TO MAKE SPACE FOR ARRIVAL OF NEW CENTRAL PLANT . ALL EXISTING PIPING, PIPING ACCESSORIES, SERVICE PLATFORM, AND SUPPORTS ARE TO BE REMOVED UP TO POINT INDICATED ON PLAN. PROVIDE NEW ISOLATION VALVES IN EXISTING PIPING FOR CONNECTION OF NEW PIPING. CONTRACTOR TO COORDINATE TIMING OF RELOCATION WITH OWNER TO MINIMIZE DOWNTIME.
2. PROVIDE NEW ISOLATION VALVES IN EXISTING PIPING TO CONNECT NEW PIPING.
3. EXISTING WALK IN COOLER CONDENSING UNIT. UNIT TO BE RELOCATED TO GENERAL LOCATION SHOWN ON M-101HT TO MAKE SPACE FOR NEW CENTRAL PLANT. REFRIGERANT LINES TO DEMOLISHED RIGHT BEFORE PENETRATION INTO THE BUILDING AND EXTENDED TO NEW UNIT LOCATION.

1 1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE
1/8" = 1'-0"

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KEY PLAN
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DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

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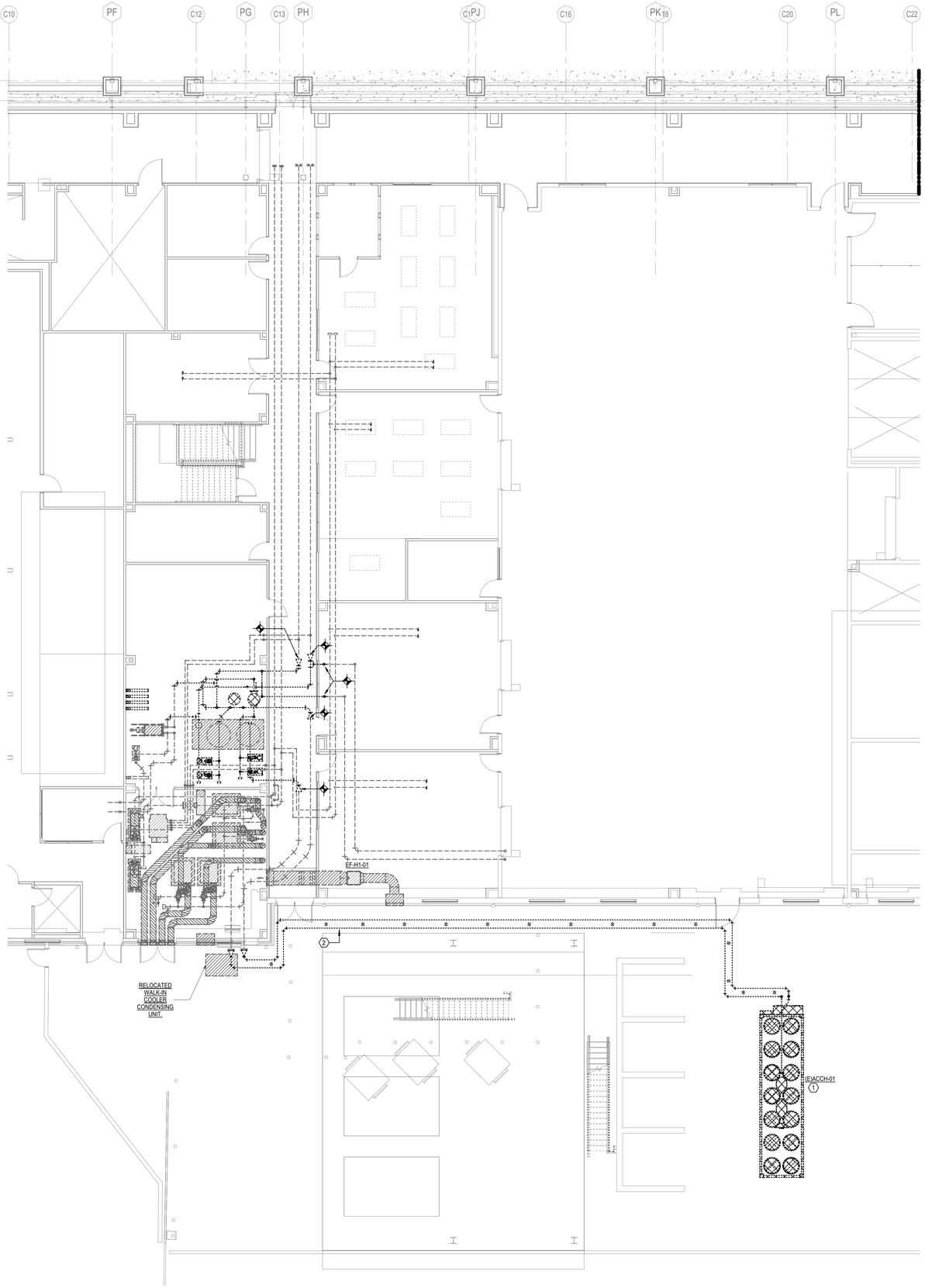
1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE

MD-101HT

Plot Stamp:
12/3/2025 6:00:45 PM

0"
1"

1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE
MD-101H
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. AFTER INSTALLATION OF CENTRAL PLANT, TEMPORARY CHILLER TO BE DEMOLISHED AND HANDED OVER TO OWNER....
2. 6" CHS/R AND SUPPORTS FOR TEMPORARY CHILLER TO BE DEMOLISHED AFTER INSTALLATION OF CENTRAL PLANT.

1 1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE
1/8" = 1'-0"

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KEY PLAN
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No.	Description	Date

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1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE

MD-101H

Plot Stamp:
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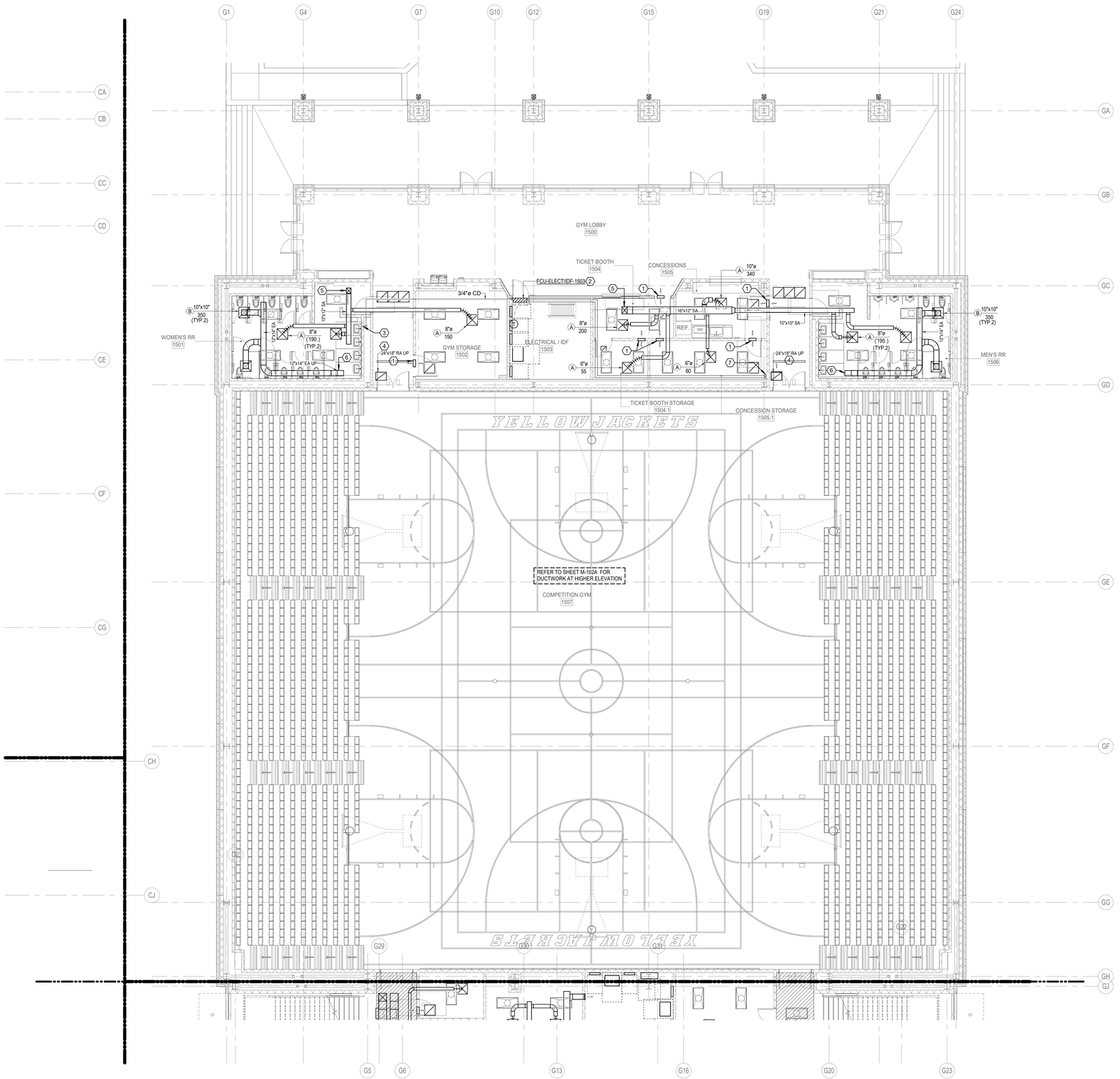
1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
M-101A
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. 24" x 18" RETURN AIR DUCT ROUTED DOWN FROM THE MEZZANINE LEVEL THRU SLAB.
5. SUPPLY DUCT FROM THE LEVEL ABOVE. REFER TO M-102A FOR CONTINUATION.
6. 12" x 14" EXHAUST AIR DUCT ROUTED UP TO **EF-A1-01** ON ROOF. TRANSITION TO UNIT INLET. REFER TO M-102A FOR CONTINUATION.
7. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102A FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.

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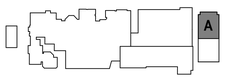

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
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PROFESSIONAL ENGINEER
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DRAWING HISTORY

No.	Description	Date

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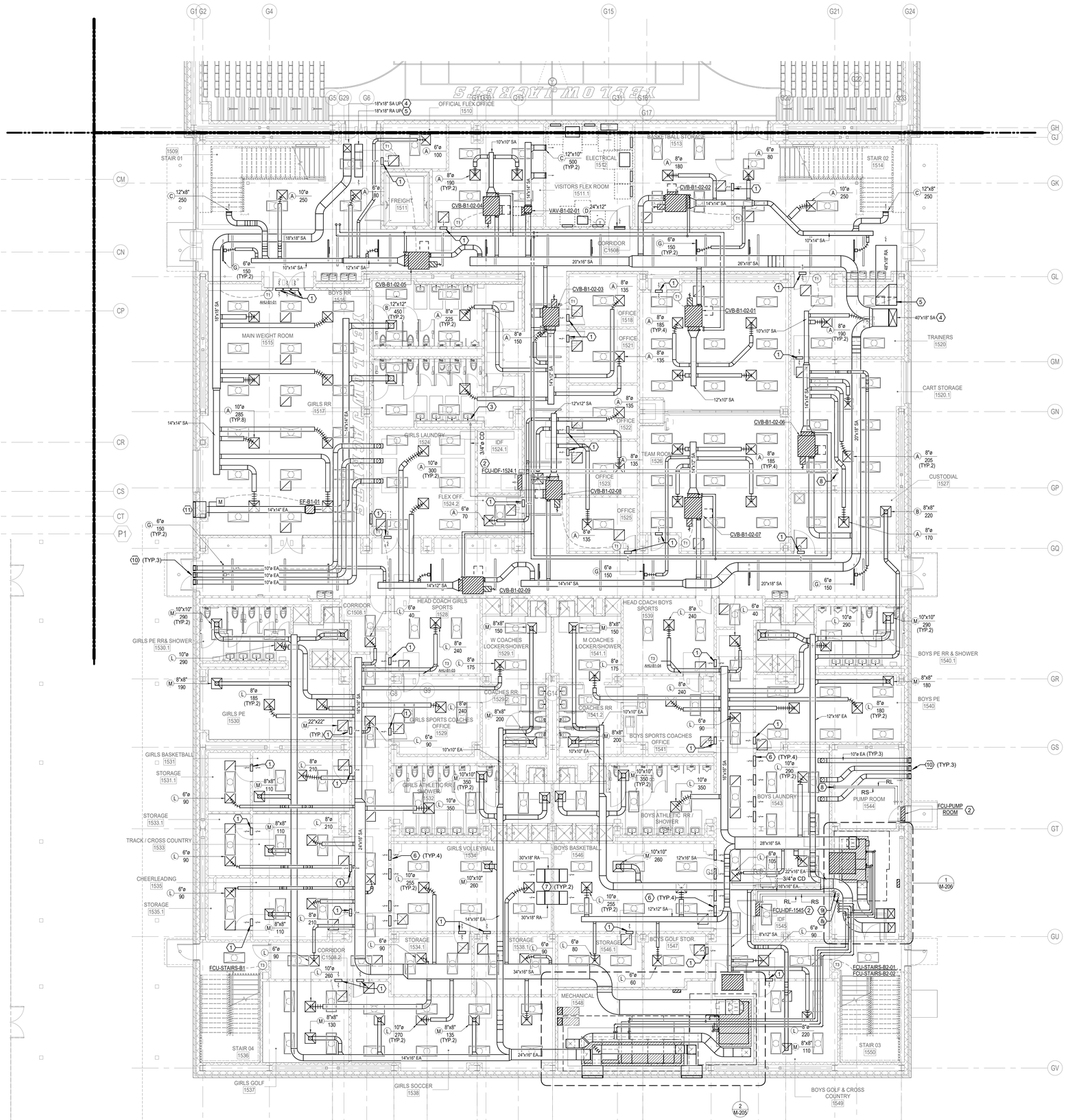
1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN

M-101A

Plot Stamp:
12/3/2025 6:01:05 PM

1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-101B
FOR BLUEBEAM LABELING/DOCR:

0"
1"



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. SUPPLY AIR DUCT FROM THE LEVEL ABOVE. REFER TO M-102B FOR CONTINUATION.
5. RETURN AIR DUCT FROM THE LEVEL ABOVE. REFER TO M-102B FOR CONTINUATION.
6. PROVIDE 24"x16" RETURN AIR WALL OPENING ABOVE CEILING.
7. PROVIDE INTERNALLY LINED TRANSFER AIR BOOT OF TYPE AND SIZE INDICATED ON PLAN AT APPROXIMATE LOCATION SHOWN. DIMENSIONS SHOWN MUST BE INTERNAL DIMENSIONS.
8. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102B FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
9. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
10. TERMINATE DRYER EXHAUST DUCT WITH LOUVERED SHUTTER.
11. PROVIDE AMCA 550 AND 540 RATED LOUVER WITH MINIMUM FREE AREA OF 1.8 SQ FT. COORDINATE EXACT DIMENSIONS, PLACEMENT, AND FINISH WITH ARCHITECT.

1 **1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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KEY PLAN
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STATE OF TEXAS
MITAL J. PATEL
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December 5, 2025
LEAF ENGINEERS
F-16672

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DATE	PROJECT NUMBER
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DRAWING HISTORY

No.	Description	Date

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1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-101B

0"
1"

1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY

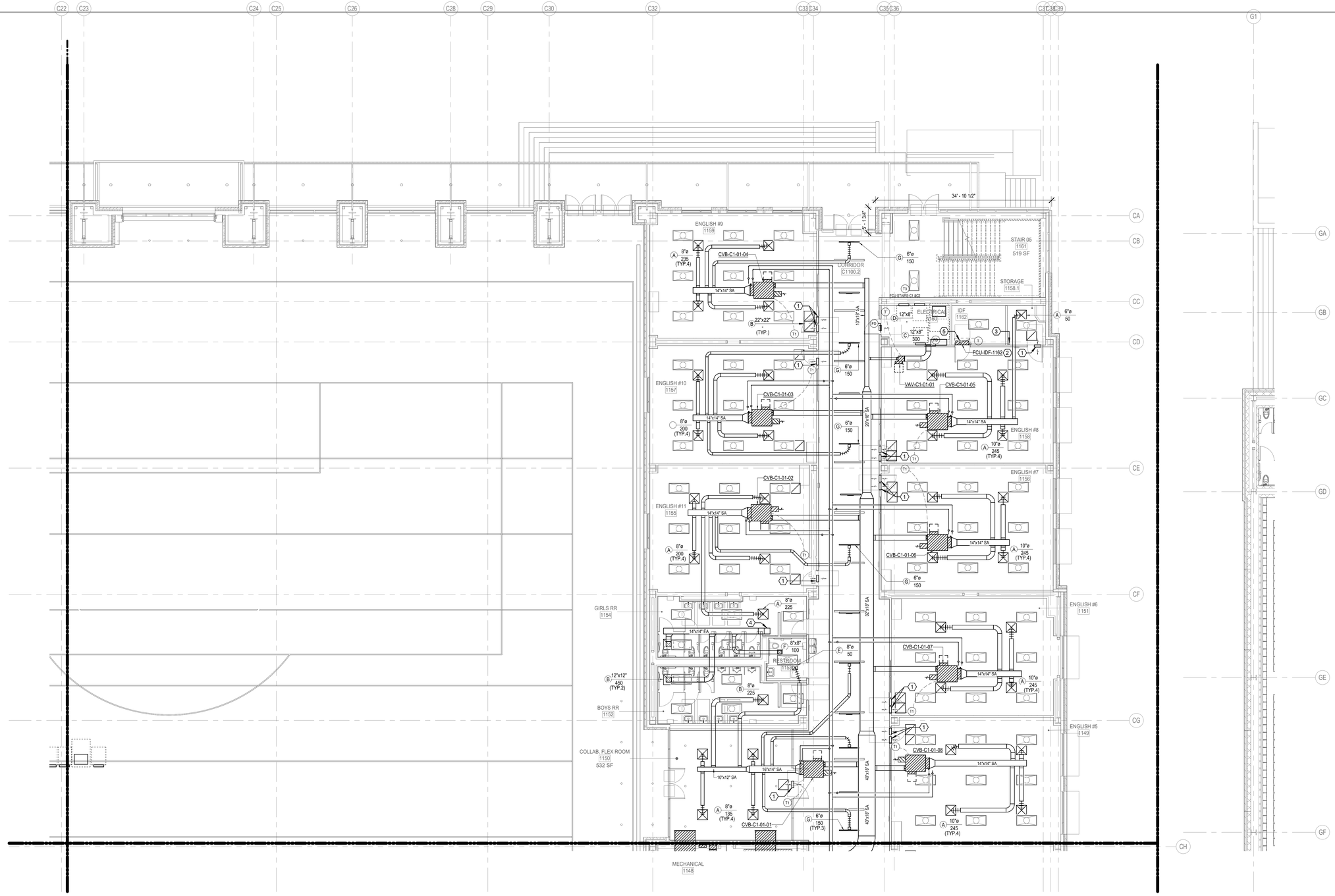
FLOOR PLAN

M-101C

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO THE NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. 12" x 14" EXHAUST DUCT ROUTED UP TO **EF-C1-01** ON ROOF. TRANSITION TO UNIT INLET.
5. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102C & M-103C FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.



1 **1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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DRAWING HISTORY

No.	Description	Date

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1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101C

0"
1"

1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

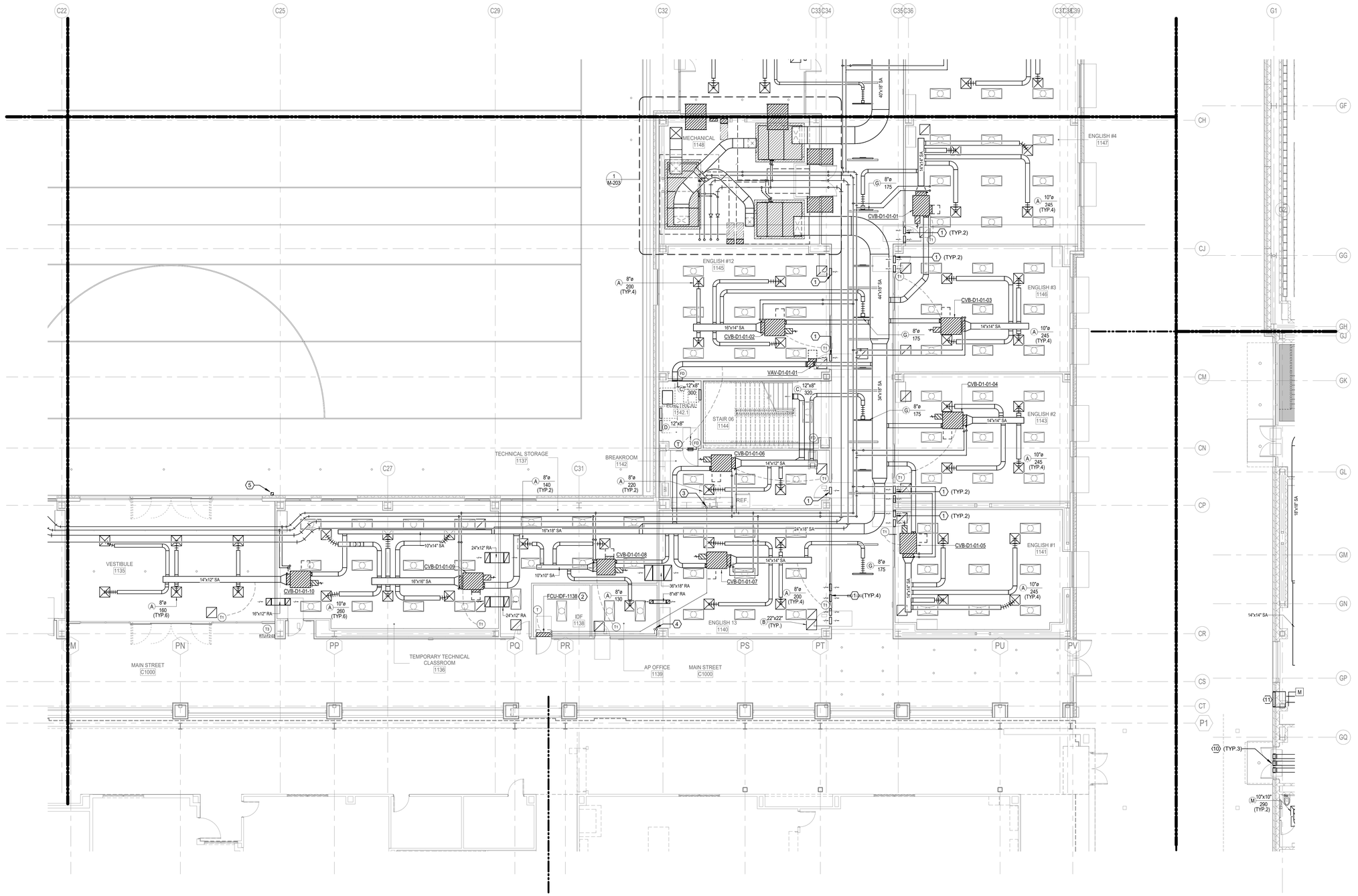
FLOOR PLAN

M-101D

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102D & M-103D FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. WALL MOUNTED CONTROLLER FOR DESTRATIFICATION FANS ON M-103G



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KEY PLAN

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1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101D

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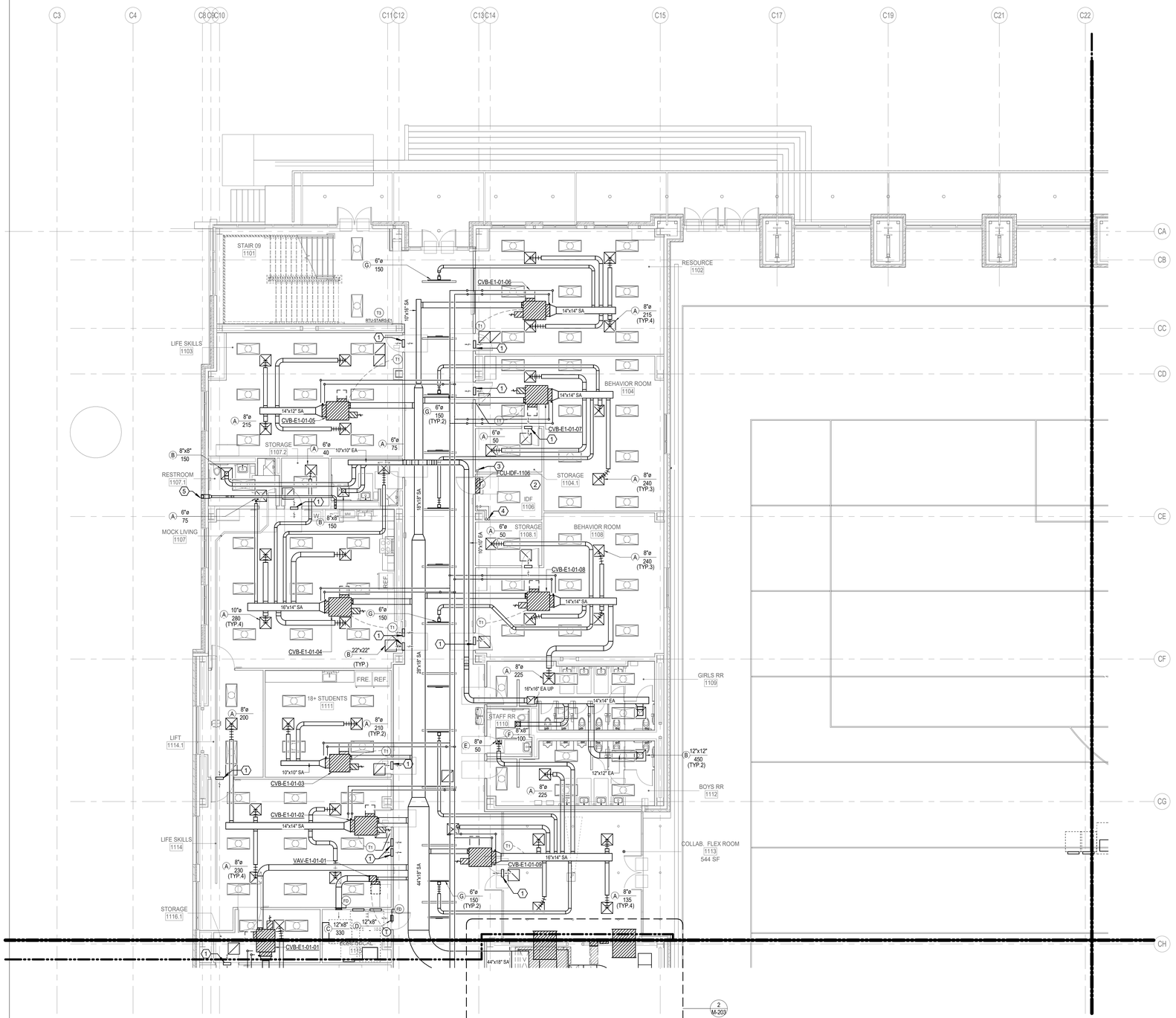
1 1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY
FLOOR PLAN
M-101E
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO THE NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102E & M-103E FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. TERMINATE DRYER VENT WITH LOUVERED SHUTTER. SEE 2:M-603 FOR DETAILS.

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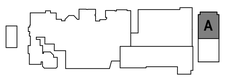

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101E

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0"
1"

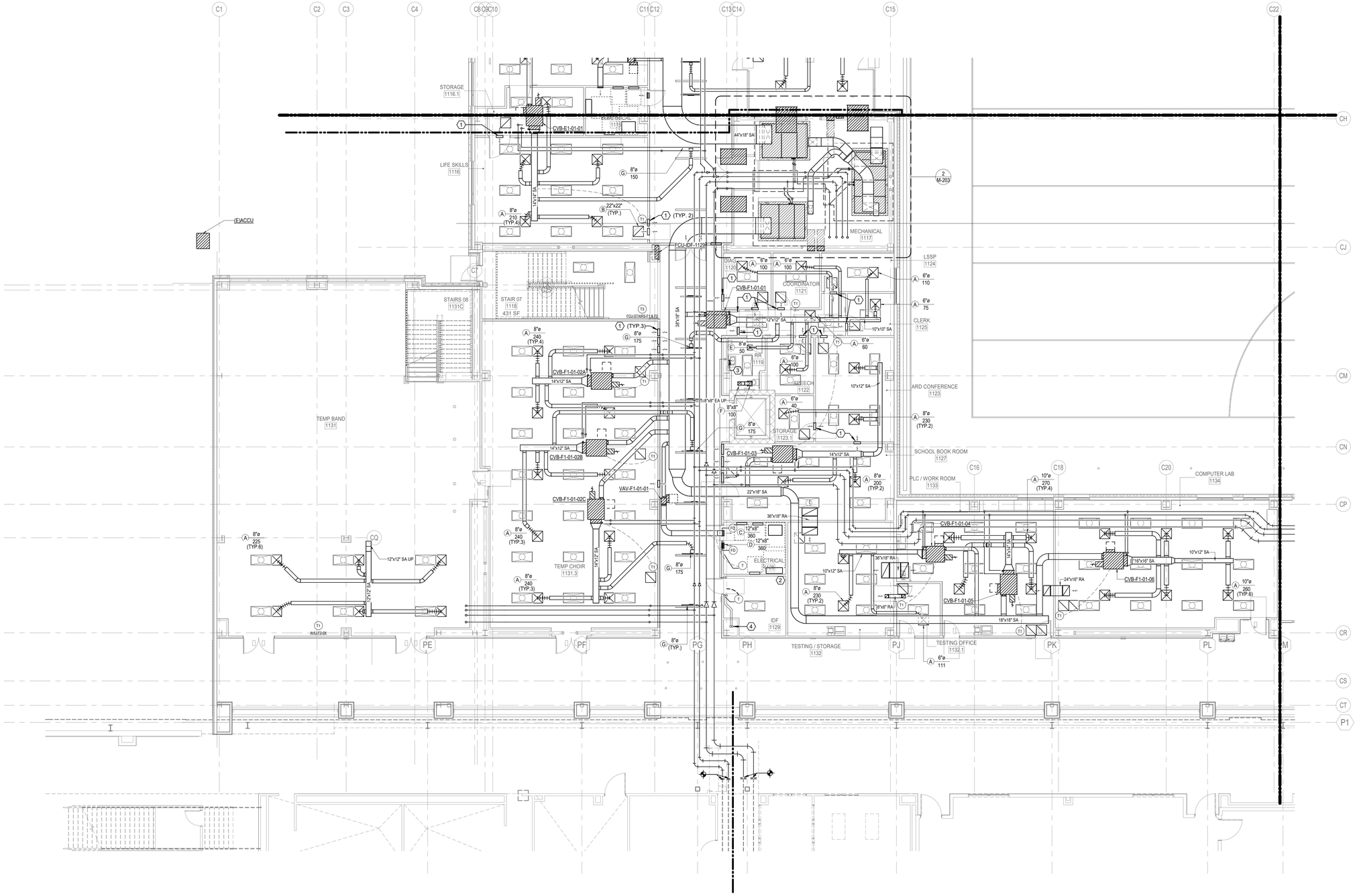
1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY

M-101F PLAN

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102F & M-103F FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.



1 **1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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Galena Park, TX 77547
CLIENT PROJECT NO: 240539
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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

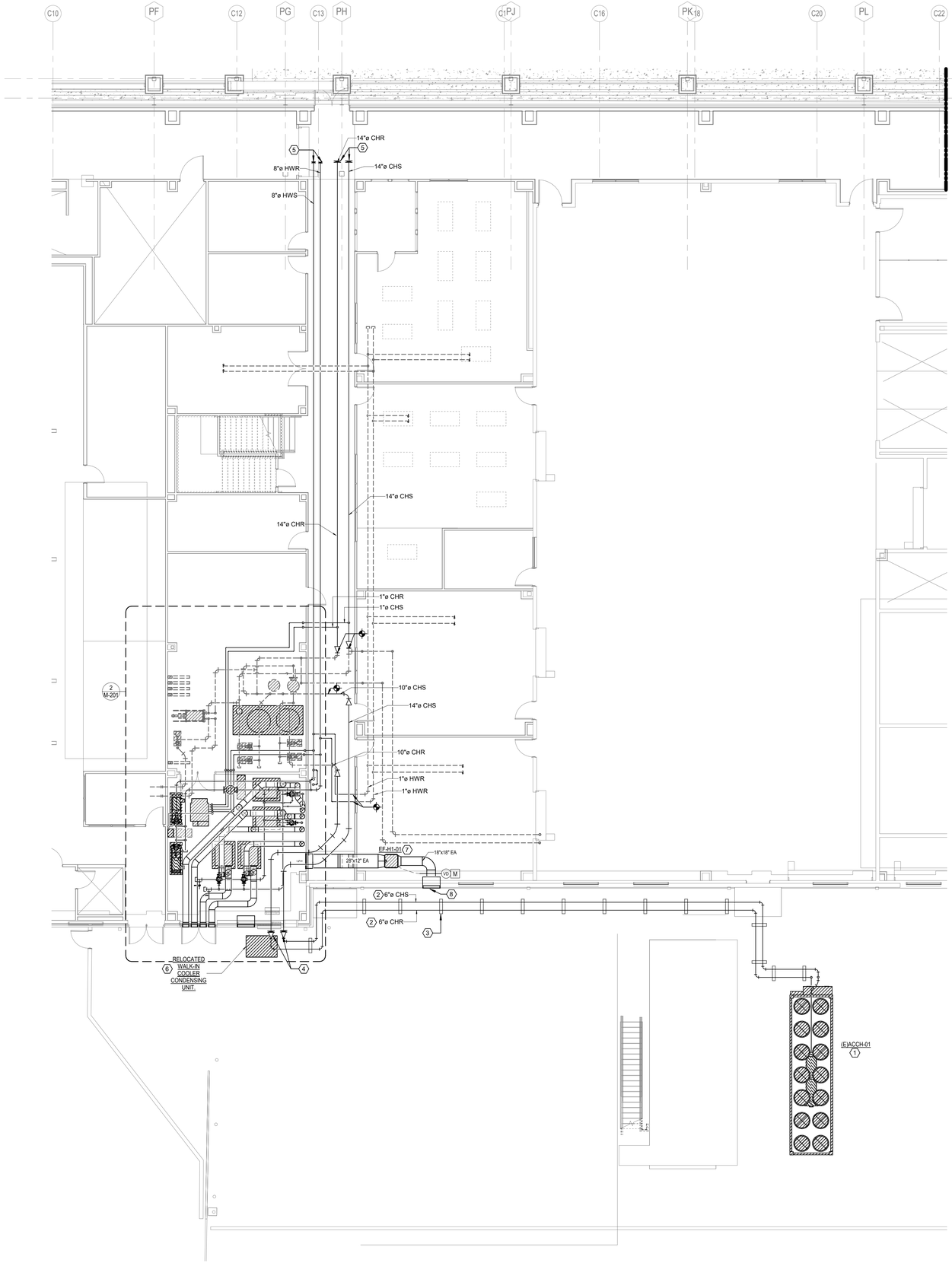
M-101F

0"
1"

1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE

M-101HT

FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. RELOCATED CHILLER TO BE PLACED TRAILER DURING THE SUMMER OF 2026 THAT WILL BE OWNER FURNISHED. THE AWARDED MECHANICAL CONTRACTOR FOR THIS CURRENT BID PACKAGE SHALL PROVIDE FLEXIBLE SUPPLY AND RETURN HOSE AND CONNECT FROM RELOCATED CHILLER TO 14" CHS/R OUTSIDE BOILER ROOM. CONTRACTOR SHALL BE RESPONSIBLE FOR CHILLER STARTUP.
2. PROPOSED LAYOUT FOR TEMPORARY FLEXIBLE 6" CHS/R FLEXIBLE PIPING CONNECTING TEMPORARY CHILLER. CONTRACTOR SHALL COORDINATE TEMPORARY PIPING LAYOUT WITH OWNER.
3. PROVIDE PORTABLE PIPE SUPPORTS IN MAX 8'-0" INTERVALS.
4. PROVIDE ISOLATION VALVES IN 14" CHS/R PIPING TO PREPARE FOR ARRIVAL OF CENTRAL PLANT PKG 3C.
5. PROVIDE ISOLATION VALVES FOR 14" CHS/R AND 8" HWS/R PIPING TO PREP FOR FUTURE CONSTRUCTION OF PHASE 3B.
6. NEW GENERAL LOCATION OF WALK IN COOLER. REFRIGERANT LINES TO BE EXTENDED TO NEW UNIT LOCATION SHOWN. CONTRACTOR TO CONSULT MANUFACTURER FOR ANY QUESTIONS REGARDING EXTENSION OF REFRIGERANT LINES. AFTER RELOCATION, CONTRACTOR TO ENSURE PROPER OPERATION OF UNIT. PROVIDE UNIT WITH NEW 12" HOUSEKEEPING PAD THAT EXTENDS AT MINIMUM 6" PAST ALL SIDES OF THE UNIT.
7. NEW INLINE FAN EF-H1-01 TO BE SUSPENDED FROM STRUCTURE. FAN TO BE INTERLOCKED WITH CO DETECTION SYSTEM IN CTE BOILER ROOM. PROVIDE FAN WITH NORMALLY CLOSED MOTORIZED DAMPER THAT IS INTERLOCKED WITH EXHAUST FAN.

   PROVIDE AMCA 550 AND 540 RATED LOUVER WITH A MINIMUM FREE AREA OF 2.6 SQ. FT. AND MAX PRESSURE DROP OF 0.15" IN. WG. AT 2,200 CFM (BOD:36"X24"). REFER TO ARCHITECTURAL PLAN FOR MORE DETAILS.

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KEY PLAN

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STATE OF TEXAS
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December 5, 2025

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP

DRAWN BY: CT

1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE

M-101HT

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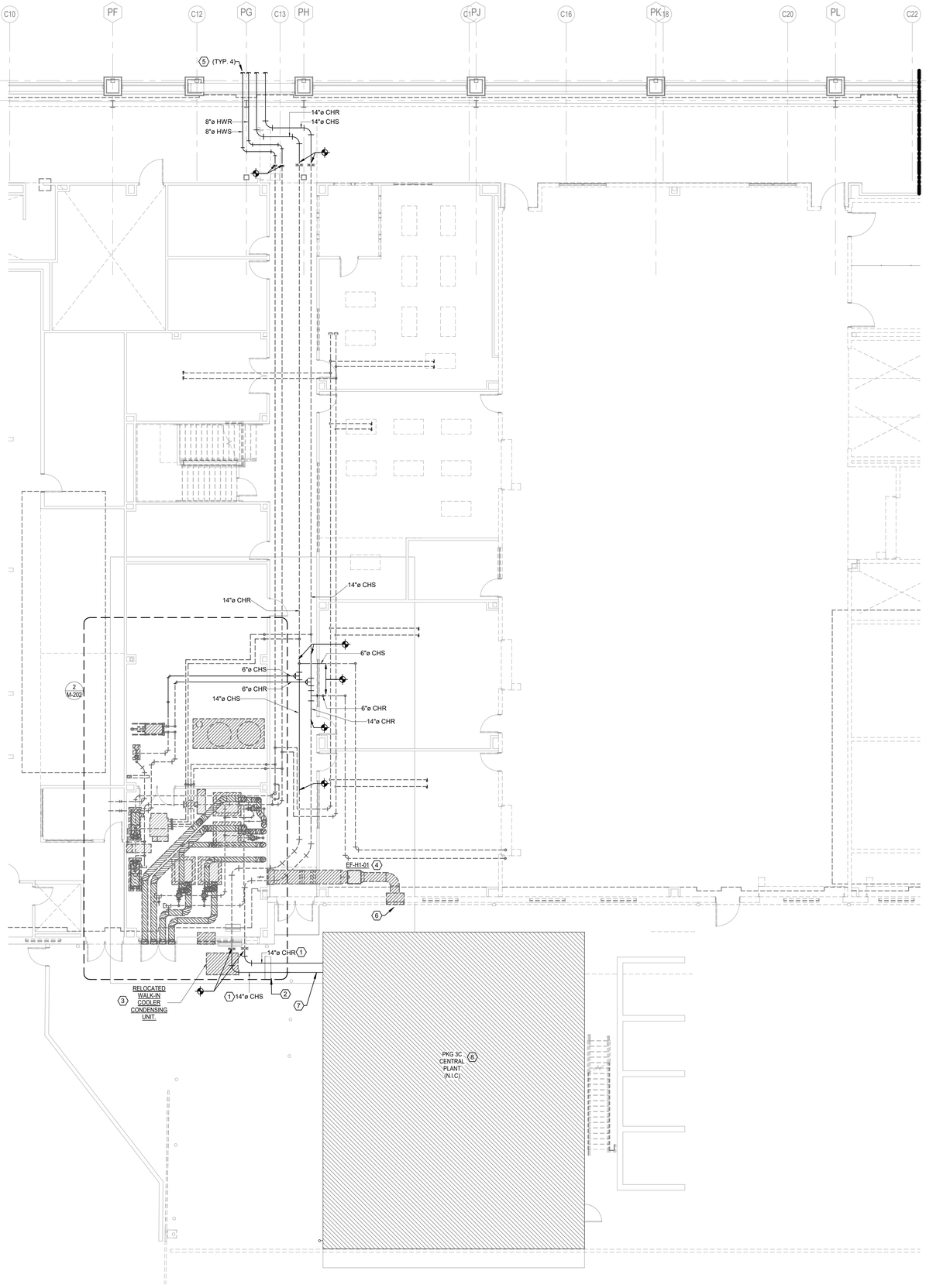
12/3/2025 6:01:46 PM

1 1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE

0"
1"

1ST FLOOR MECHANICAL PLAN - AREA H - CTE
M-101H
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. 14" CHS/R LINES TO CONNECT CENTRAL PLANT TO EXISTING 14" CHS/R LINES ENTERING THE CTE BOILER ROOM.
2. PROVIDE PIPE STANCHIONS AT MAX 8'-0" INTERVALS.
3. WALK IN COOLER CONDENSING UNIT RELOCATED DURING THE SUMMER OF 2026 TO MAKE ROOM FOR PKG 3C CENTRAL PLANT. FOR DETAILS, SEE M-101HT.
4. SUSPENDED INLINE EXHAUST FAN INSTALLED DURING THE SUMMER OF 2026. SEE M-101HT FOR DETAILS.
5. SEE M-101F FOR PIPING CONTINUATION.
6. LOUVER INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-101HT FOR DETAILS.
7. CONNECT NEW 14" CHS/R PIPING TO BLIND FLANGE CONNECTIONS PROVIDED BY CENTRAL PLANT PKG 3C MANUFACTURER.
8. CONTRACTOR FOR PKG 3B TO PROVIDE BAS CONNECTION FROM PKG 3C CENTRAL PLANT TO EXISTING CTE BAS.

1 1ST FLOOR MECHANICAL PLAN - AREA H - CTE
1/8" = 1'-0"

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DATE	PROJECT NUMBER
December 5, 2025	240539

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CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA H - CTE

M-101H

Plot Stamp:
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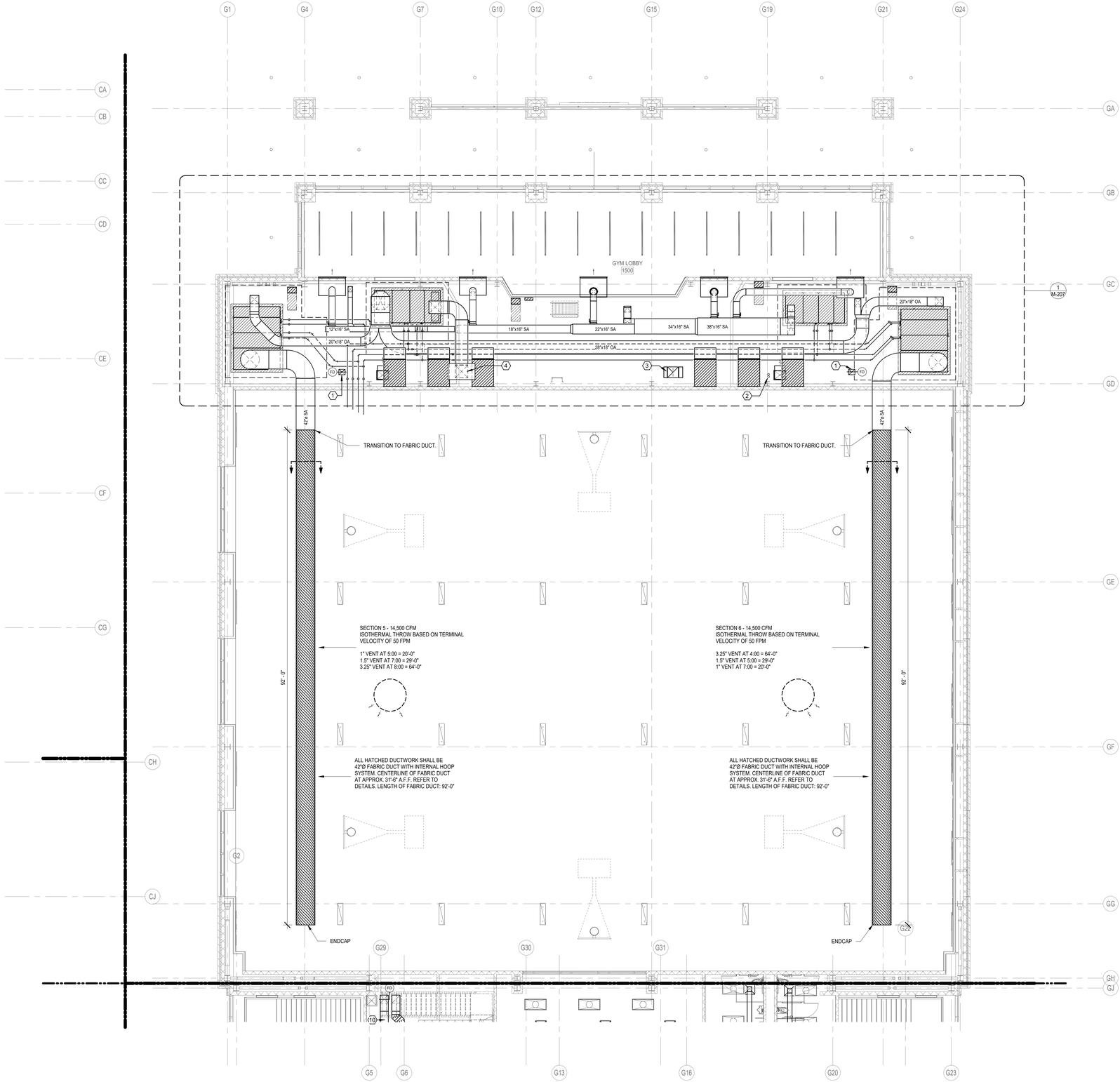
0"
1"

2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
M-102A
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. EXHAUST AIR DUCT ROUTED UP THROUGH MECHANICAL ROOM FLOOR TO EXHAUST FAN LOCATED ON ROOF. PROVIDE FIRE DAMPER AT FLOOR PENETRATION , MOTORIZED DAMPER AT HOOD, AND TRANSITIONS AS REQUIRED.
2. REFRIGERANT LINES FROM THE FIRST LEVEL TO ROUTE UP THROUGH THE MEZZANINE TO THE ROOF. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
3. 24" x 24" RELIEF AIR DUCT UP TO RELIEF HOOD **RH-A1** ON ROOF, TRANSITION TO UNIT INLET.
4. OUTSIDE AIR DUCT ROUTED UP THROUGH ROOF TO INTAKE HOOD **IH-A1**, TRANSITION TO UNIT INLET.

1 2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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December 5, 2025	240539

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DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN

M-102A

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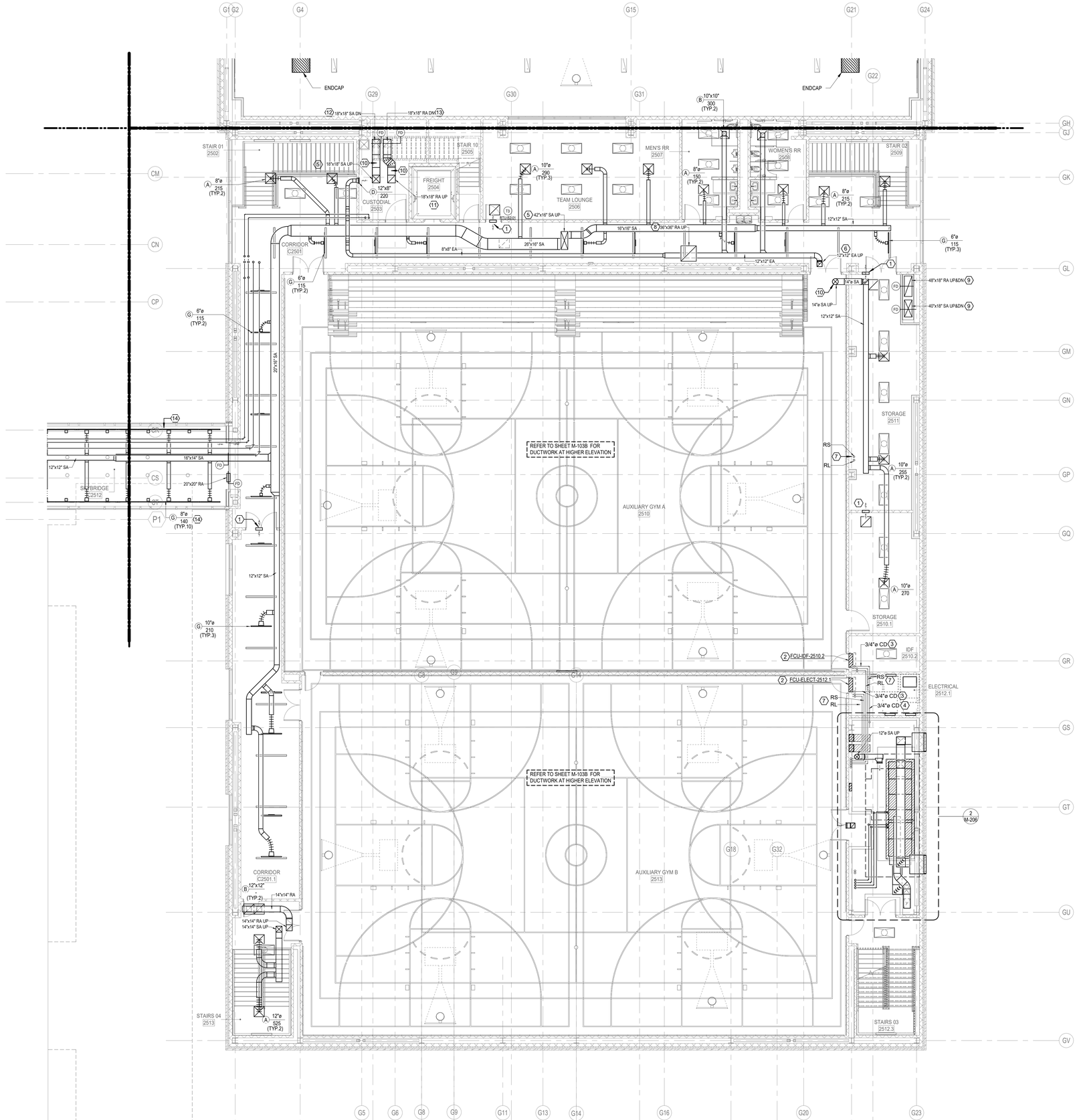
2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-102B
FOR BLUEBEAM LABELING/DOOR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE LINE TO MAIN 3/4" CONDENSATE LINE LEADING TO FLOOR DRAIN IN MECHANICAL ROOM.
4. ROUTE MAIN 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN IN MECHANICAL ROOM. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
5. SUPPLY DUCT FROM MEZZANINE ABOVE THRU SLAB. REFER TO M-103B FOR CONTINUATION.
6. EXHAUST DUCT FROM MEZZANINE ABOVE THRU SLAB. REFER TO M-103B FOR CONTINUATION.
7. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. RETURN AIR OPENING TO SOUND TRAP ABOVE. SEE 2.M-208 FOR CONTINUATION.
9. SUPPLY AND RETURN DUCT FROM MEZZANINE ABOVE DOWN TO 1ST FLOOR. SEE M-101B FOR CONTINUATION. PROVIDE FIRE DAMPER AT SLAB PENETRATIONS
10. EXPOSED DUCTWORK SHALL BE DOUBLE WALL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
11. RETURN DUCT FROM MEZZANINE ABOVE THRU SLAB. REFER TO M-103B FOR CONTINUATION.
12. ROUTE SUPPLY DUCT DOWN THRU SLAB. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
13. ROUTE RETURN DUCT DOWN THRU SLAB. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
14. FOR SKYBRIDGE, PROVIDE A CONTINUOUS 36" LINEAR SLOT WITH UNUSED SECTIONS USED FOR RETURN AIR. FOR RETURN AIR LINEAR SLOTS, PROVIDE DIFFUSERS WITH BLANK OFF LIGHT SHIELD

1 2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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B

KEY PLAN
NORTH: PLAN TRUE

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2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

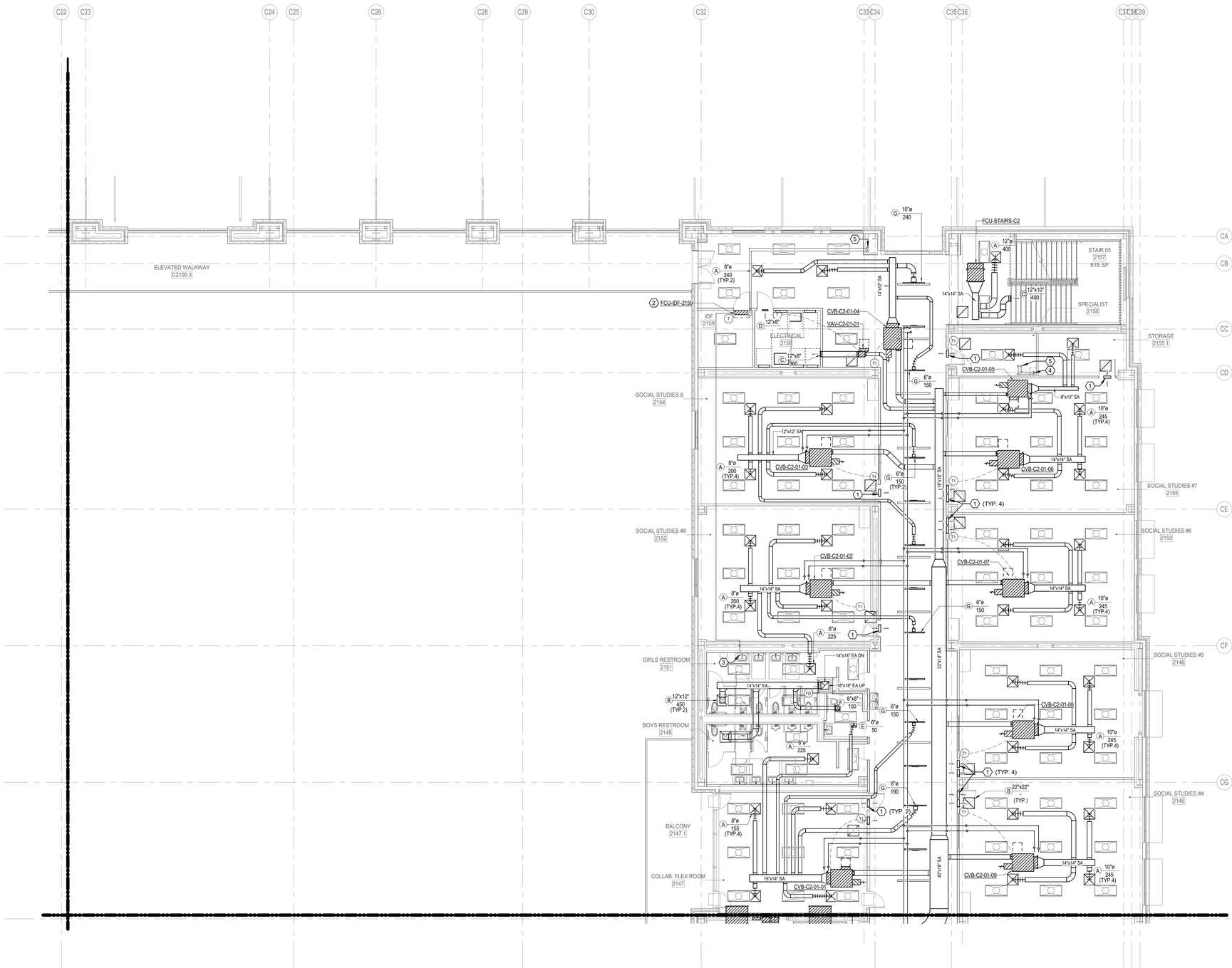
M-102B

0"
1"

2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY

M-102C PLAN

FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. REFRIGERANT PIPING ROUTING FROM THE LEVEL BELOW THROUGH THE CHASE. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
5. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.

1 **2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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KEY PLAN

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DATE	PROJECT NUMBER
December 5, 2025	240539

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No.	Description	Date

CHECKED BY: MP

DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102C

0"
1"

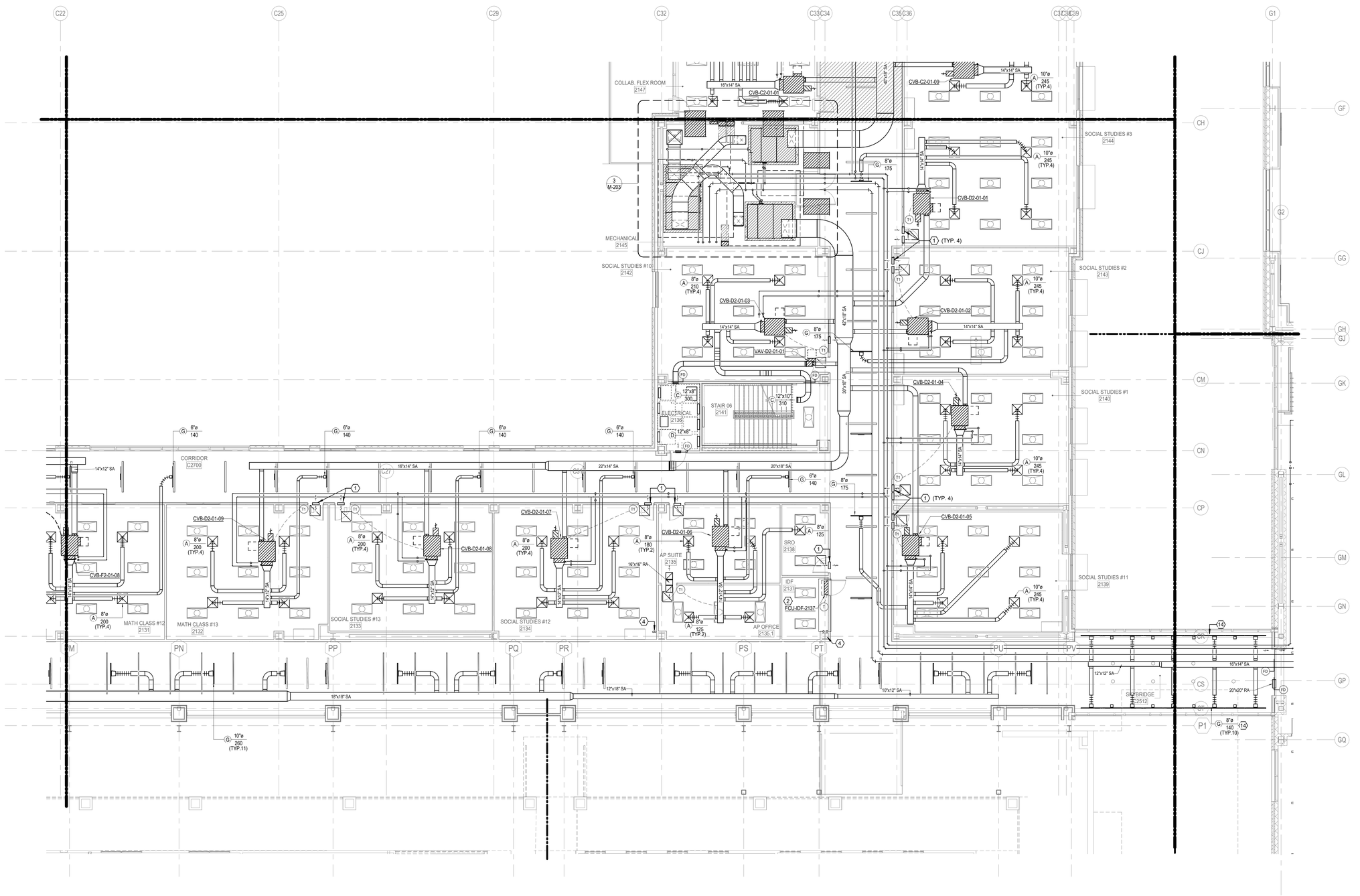
2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

FLOOR PLAN
M-102B

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.



1 **2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

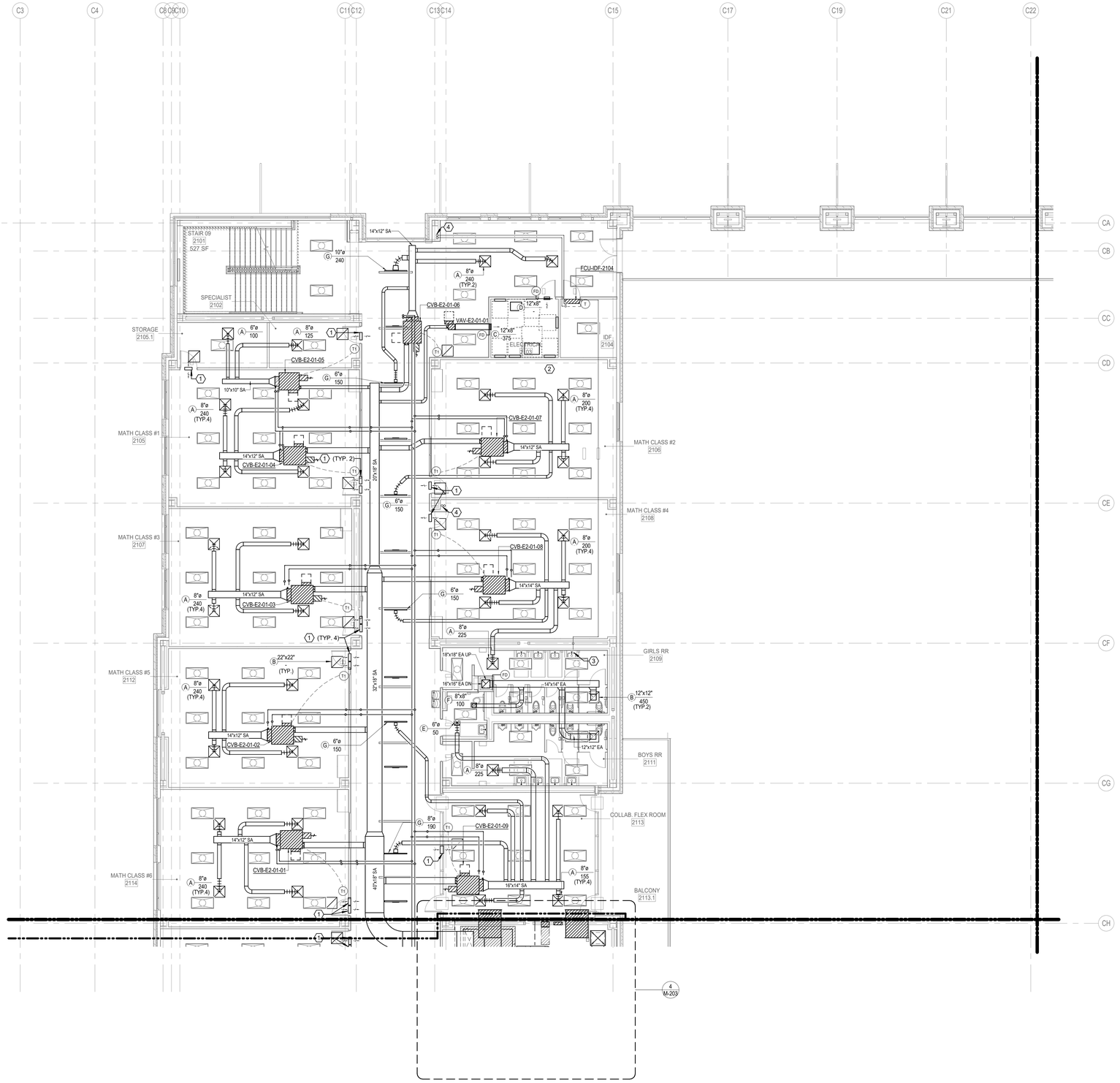
CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102D

0"
1"

2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY
M-102E PLAN
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.

1 2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
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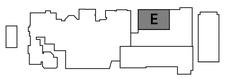

KEY PLAN
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DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

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2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102E

0"
1"

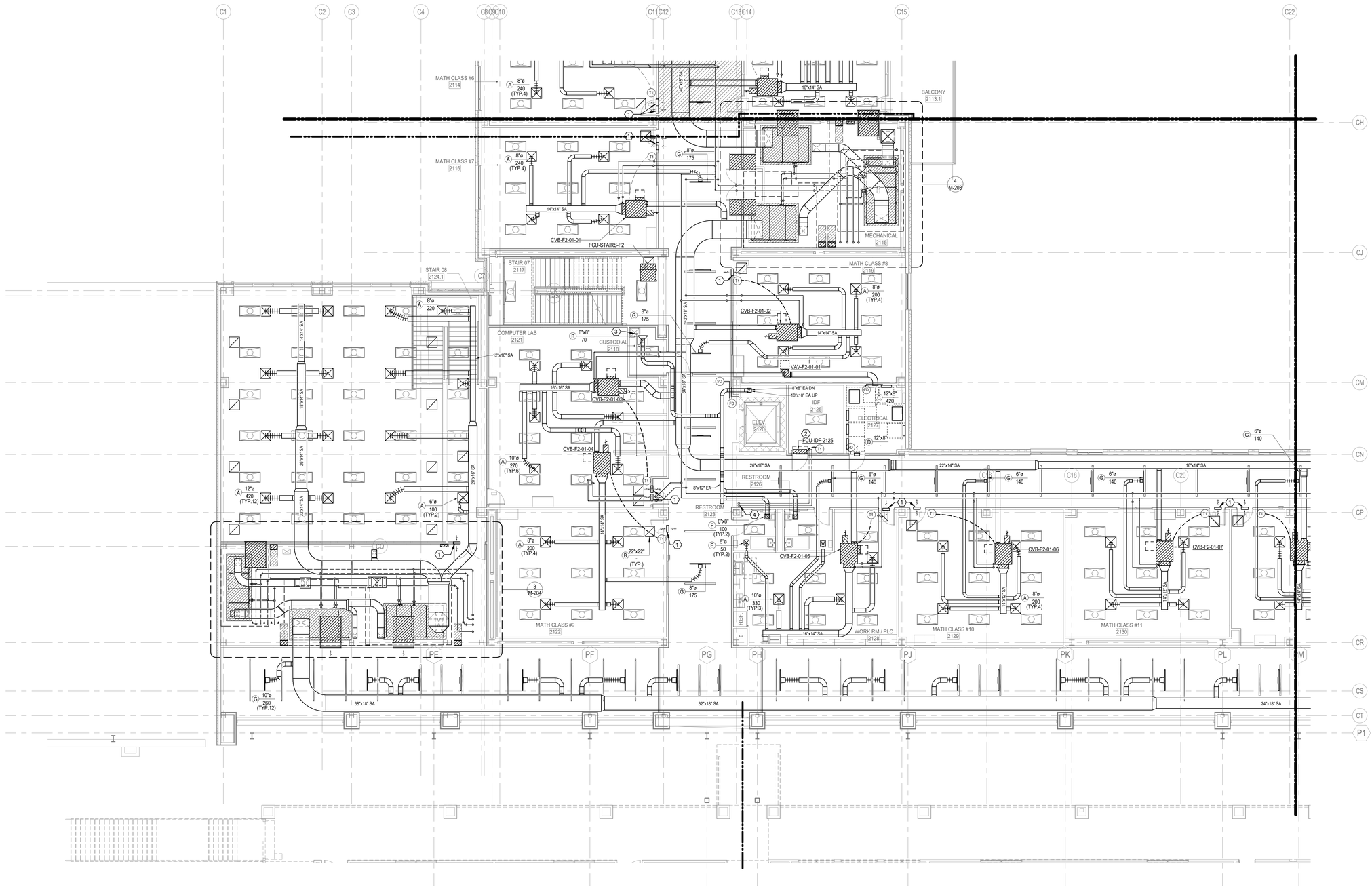
2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY

FLOOR PLAN M-102F

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO THE MOP SINK. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.



1 **2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FOR ALL STUDENTS

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

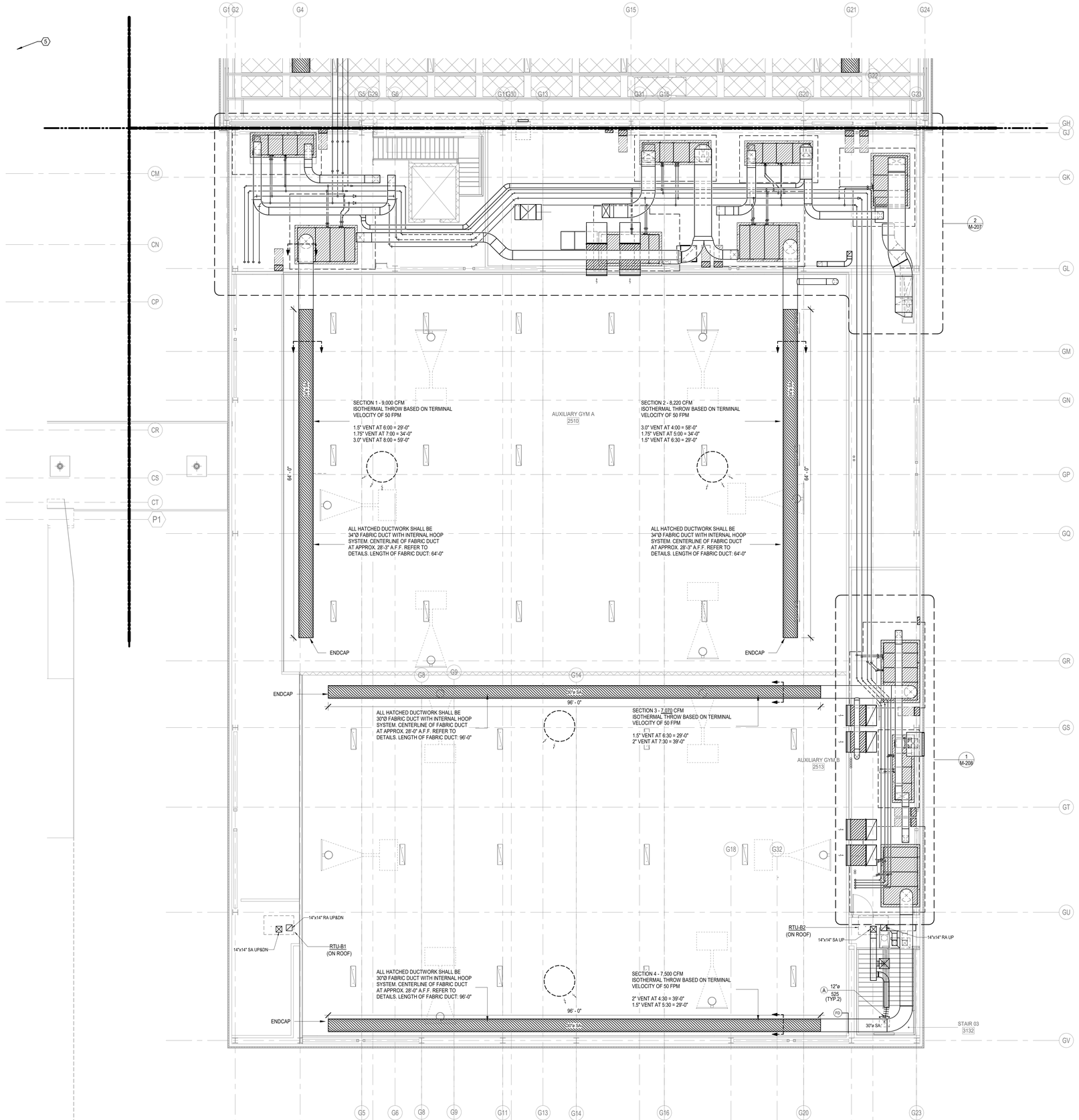
CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102F

3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-103B
FOR BLUEBEAM LABELING/OCR:

0"
1"



MECHANICAL KEYED NOTES:

1. ROUTE...
2.
3.
4.

1 3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN TEST
SCALE: 1/8" = 1'-0"

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Galena Park ISD

B

KEY PLAN
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STATE OF TEXAS
MITAL J. PATEL
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LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-103B

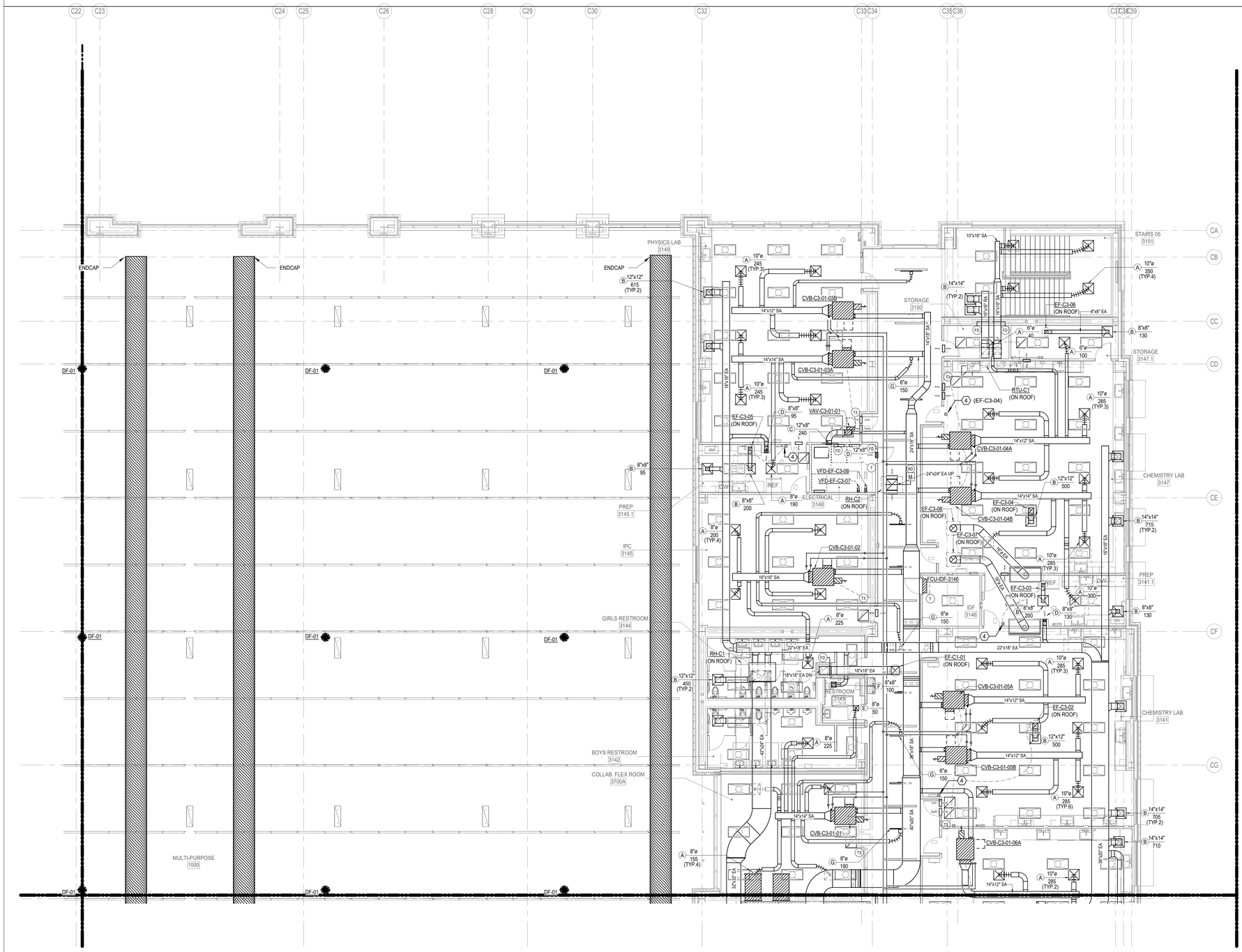
0"
1"

3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY
M-103C PLAN

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.



1 **3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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C

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

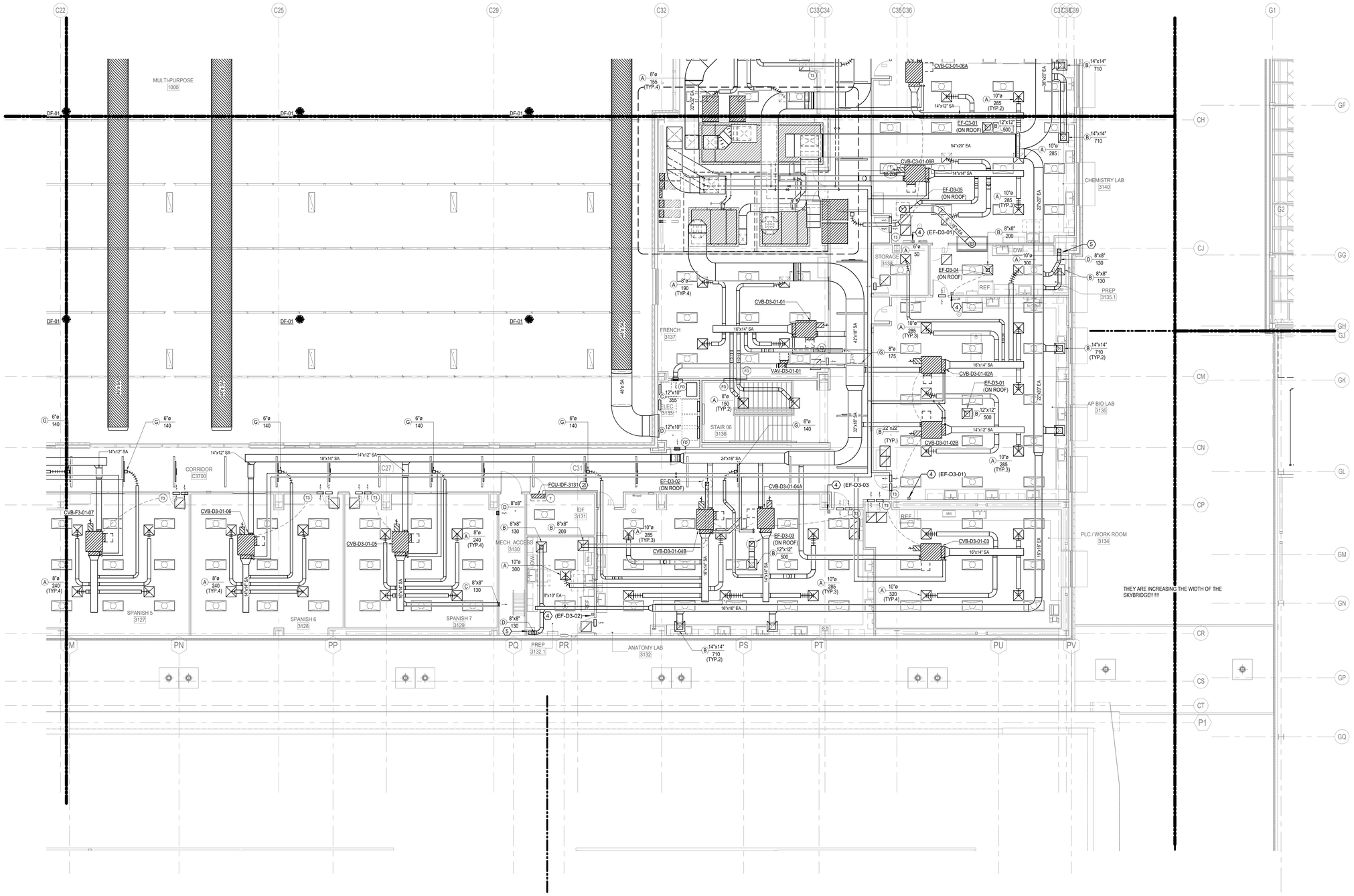
3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103C

3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY
FLOOR PLAN
M-103D
FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. ROUTE 8"X8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.



1 3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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CLIENT PROJECT NO: 240539
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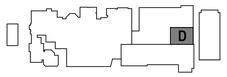

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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PROFESSIONAL ENGINEER
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GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
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3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103D

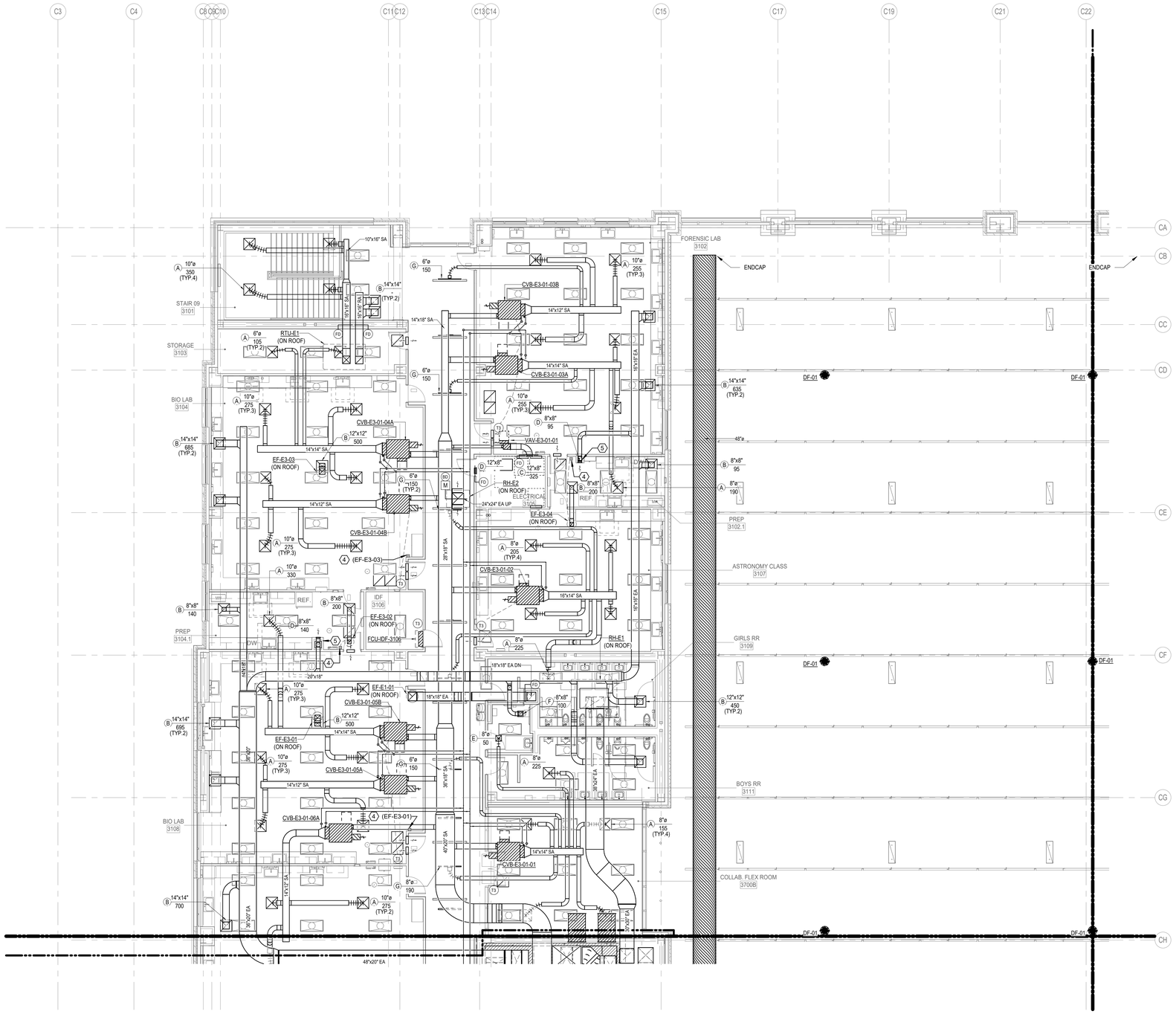
Plot Stamp:
12/3/2025 6:02:45 PM

0"
1"

3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY

FLOOR PLAN M-103E

FOR BLUEBEAM LABELING/OCR:



1 **3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. ROUTE 8"X8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.

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DRAWING HISTORY

No.	Description	Date

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3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103E

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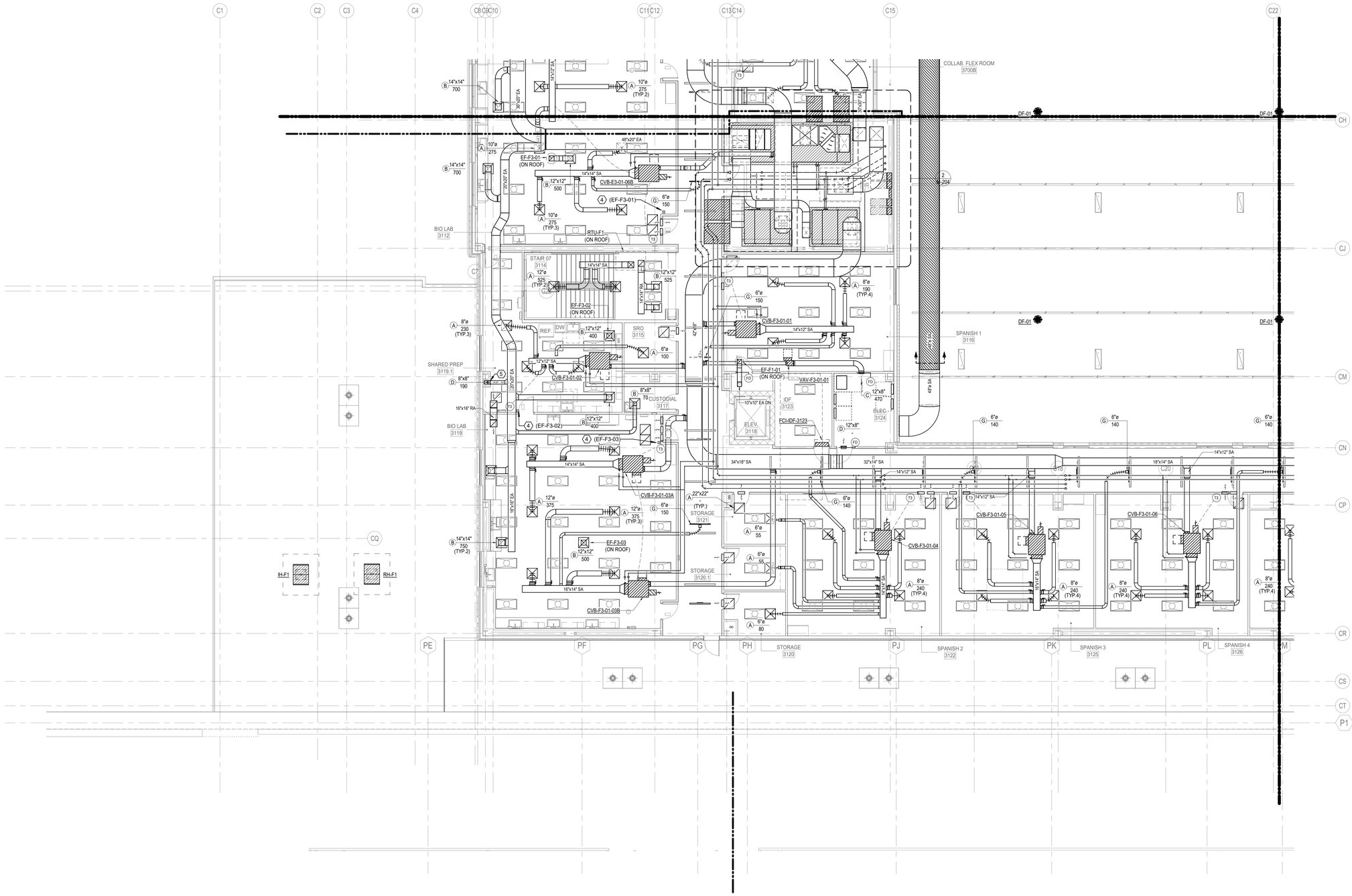
3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103F
FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. ROUTE 8"X8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.



1 3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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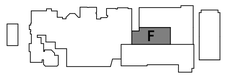

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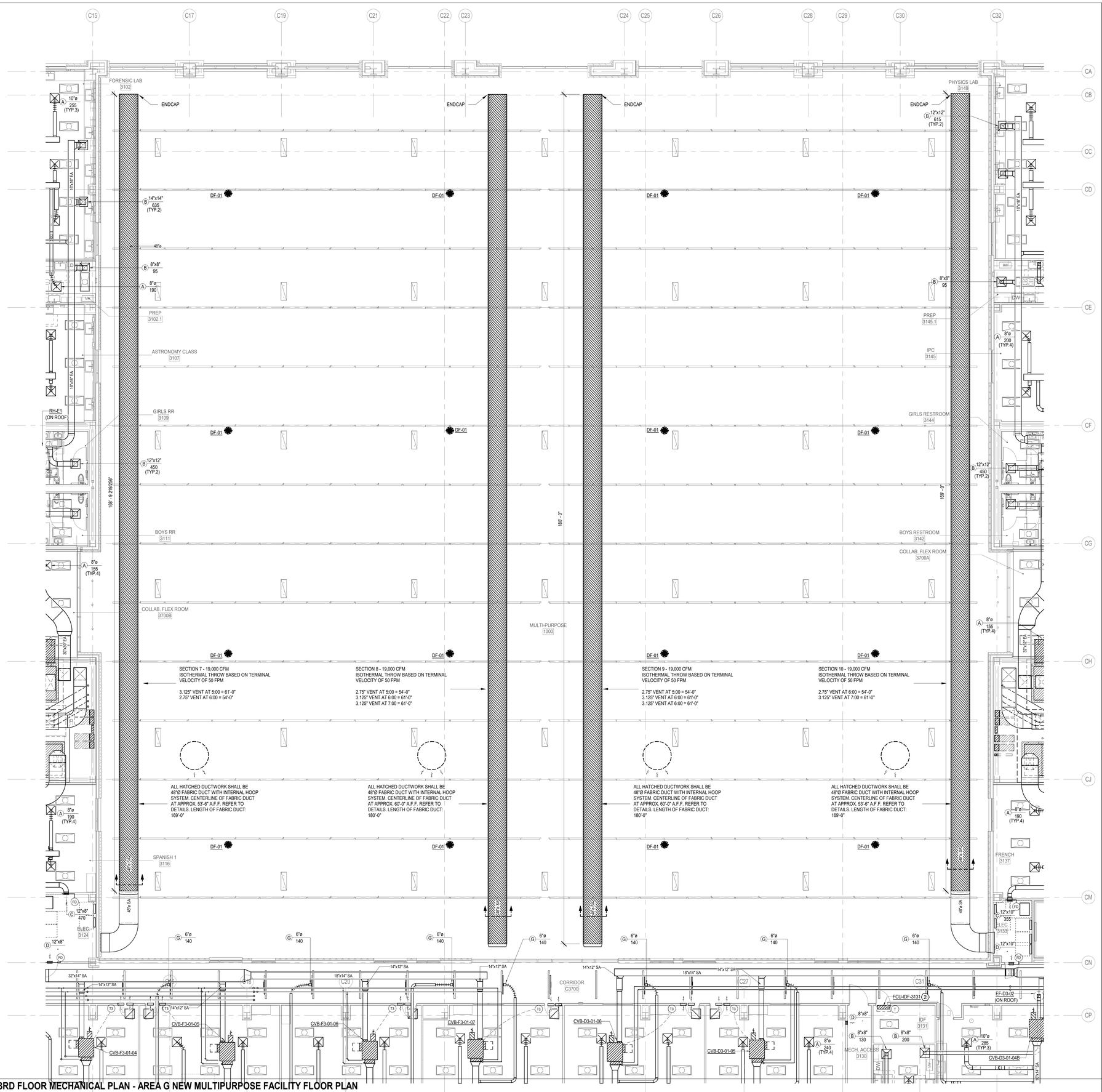
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103F

Plot Stamp:
12/3/2025 6:03:00 PM

3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY
FLOOR PLAN
M-103G
FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. ROUTE...
2.
3.
4.

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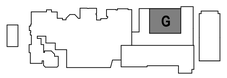

KEY PLAN
NORTH: PLAN TRUE

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

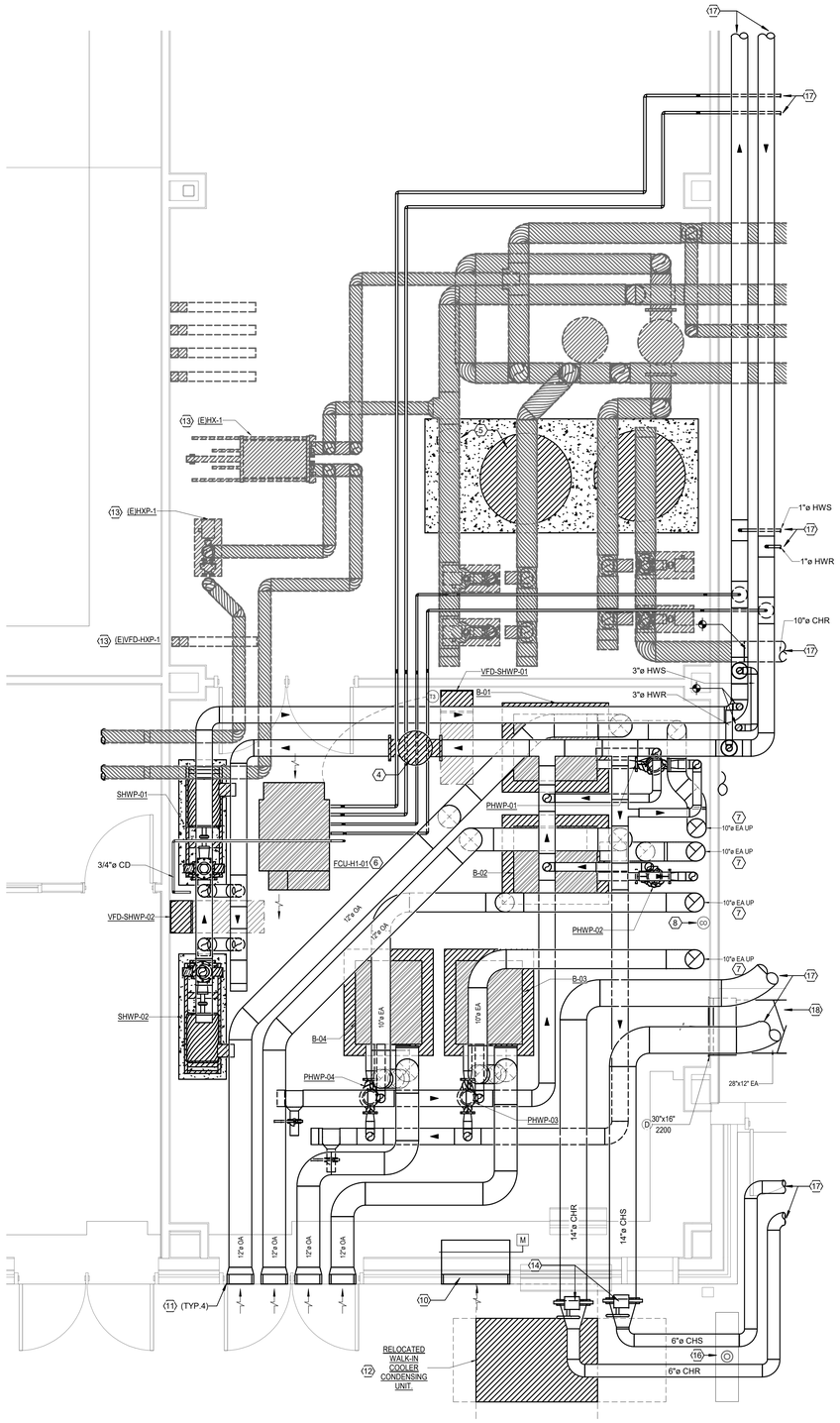
3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103G

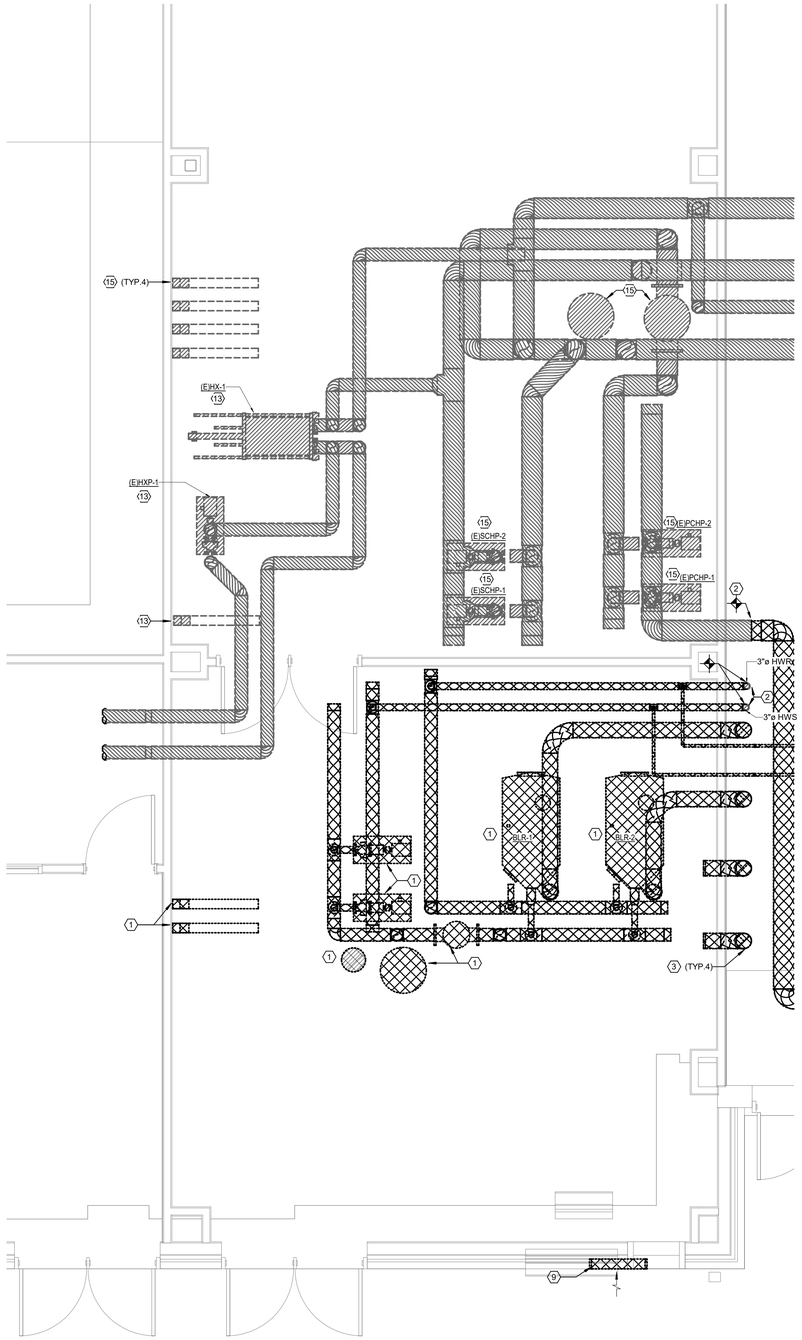
Plot Stamp:
12/3/2025 6:03:08 PM

ENLARGED TEMPORARY MECHANICAL PLAN
M-201
FOR BLUEBEAM LABELING/OCR:

0"
1"



2 1ST FLOOR TEMPORARY MECHANICAL ENLARGED PLAN - AREA H - CTE
3/8" = 1'-0"



1 1ST FLOOR TEMPORARY MECHANICAL ENLARGED DEMO PLAN - AREA H - CTE
3/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. EXISTING BOILER SYSTEM TO BE DEMOLISHED AND REPLACED DURING THE SUMMER OF 2026. ALL EXISTING PIPING, PIPING ACCESSORIES, AND SUPPORTS ARE TO BE REMOVED UP TO POINT INDICATED ON PLAN. ALL VFDs, AIR DIRT SEPARATOR, CHEMICAL TREATMENT TANK, AND EXPANSION TANKS SERVING THE BOILER SYSTEM TO BE DEMOLISHED. EQUIPMENT TO BE HANDED OVER TO OWNER. CONTRACTOR TO COORDINATE TIMING OF DEMOLITION WITH OWNER TO MINIMIZE DOWNTIME. EXISTING HOUSEKEEPING PADS TO ALSO BE DEMOLISHED.
2. PROVIDE NEW ISOLATION VALVES IN PIPING FOR CONNECTION OF NEW PIPING.
3. FLUE VENTS AND ROOF CAPS FOR OLD BOILER SYSTEM GOING UP THROUGH CHASE TO BE DEMOLISHED.
4. COMBINATION DIRT/AIR SEPARATOR SUSPENDED FROM STRUCTURE.
5. HOT WATER EXPANSION AND CHEMICAL TREATMENT TANKS. SET ON 4" HIGH HOUSEKEEPING PAD.
6. FAN COIL SUSPENDED FROM STRUCTURE. ROUTE 3/4" TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATIONS. CONDUCTIVITY SENSOR SHALL BE-ENERGIZED UNIT ON SENSING MOISTURE IN PAN. PAN TO EXTEND UNDER VALVING OF UNIT AND 6" BEYOND UNIT ELSEWHERE. PAN SHALL BE SUPPORTED FROM STRUCTURE. REFER TO SPECIFICATIONS AND DETAILS
7. 10"Ø BOILER FLUE ROUTED TO ROOF THRU EXISTING CHASE. TERMINATE WITH ROOF CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL.
8. CARBON MONOXIDE SENSOR (CO) TO BE INSTALLED CONCURRENTLY WITH INSTALLTION OF NEW BOILER SYSTEM; VERIFY FINAL LOCATION WITH OWNER. REFER TO SEQUENCE OF OPERATIONS. THE SENSOR SHALL BE CALIBRATED EVERY EIGHTEEN MONTHS & A RECORD OF CALIBRATION SHALL BE POSTED IN A CONSPICUOUS PLACE.
9. EXISTING LOUVER AND ASSOCIATED ACCESSORIES TO DEMOLISHED TO MAKE SPACE FOR NEW FIRE RISERS IN BOILER ROOM. LOUVER PENETRATION TO BE IN-FILLED PER ARCHITECTS' DRAWINGS AND SPECIFICATIONS.
10. PROVIDE AMCA 550 AND 540 RATED LOUVER CONCURRENTLY WITH INSTALLATION OF NEW BOILER SYSTEM WITH A MINIMUM FREE AREA OF 2.6 SQ. FT. AND MAX. PRESSURE DROP OF 0.15" IN. WG. AT 2,200 CFM (BOD: 36"X24"). PROVIDE LOUVER WITH NORMALLY CLOSED MOTORIZED DAMPER THAT IS INTERLOCKED WITH EF-H1-01 FOR CO PURGE. COORDINATE LOCATION OF NEW LOUVER WITH NEW FIRE RISERS IN BOILER ROOM. REFER TO ARCHITECTURAL PLAN FOR MORE DETAILS.
11. TERMINATE BOILER INTAKES WITH BOILER MANUFACTURER RECOMMENDED WALL THIMBLE KIT AND/OR ANY OTHER ACCESSORIES RECOMMENDED FROM THE MANUFACTURER.
12. RELOCATED WALK IN COOLER CONDENSER RELOCATED PRIOR TO PKG 3C CENTRAL PLANT ARRIVAL. SEE M-101HT FOR MORE DETAILS.
13. EXISTING HEAT EXCHANGER,HEAT EXCHANGER PUMP, AND PUMP VFD TO REMAIN UNTIL THE CONSTRUCTION BEGINS OF PHASE 4.
14. PROVIDE ISOLATION VALVES IN 14" CHS/R PIPING TO PREPARE FOR ARRIVAL OF CENTRAL PLANT PKG 3C.
15. EXISTING CHILLED WATER LOOP PUMPS, VFDs, AIR/DIRT SEPARATOR, WATER EXPANSION TANK AND OTHER ACCESSORIES TO REMAIN UNTIL THE ARRIVAL AND HOOKUP OF PKG 3C CENTRAL PLANT.
16. PROVIDE PIPE STANCHION.
17. FOR PIPING CONTINUATION, SEE M-101HT.
18. FOR DUCTWORK CONTINUATION, SEE M-101HT.

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1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

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Galena Park ISD

KEY PLAN
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STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

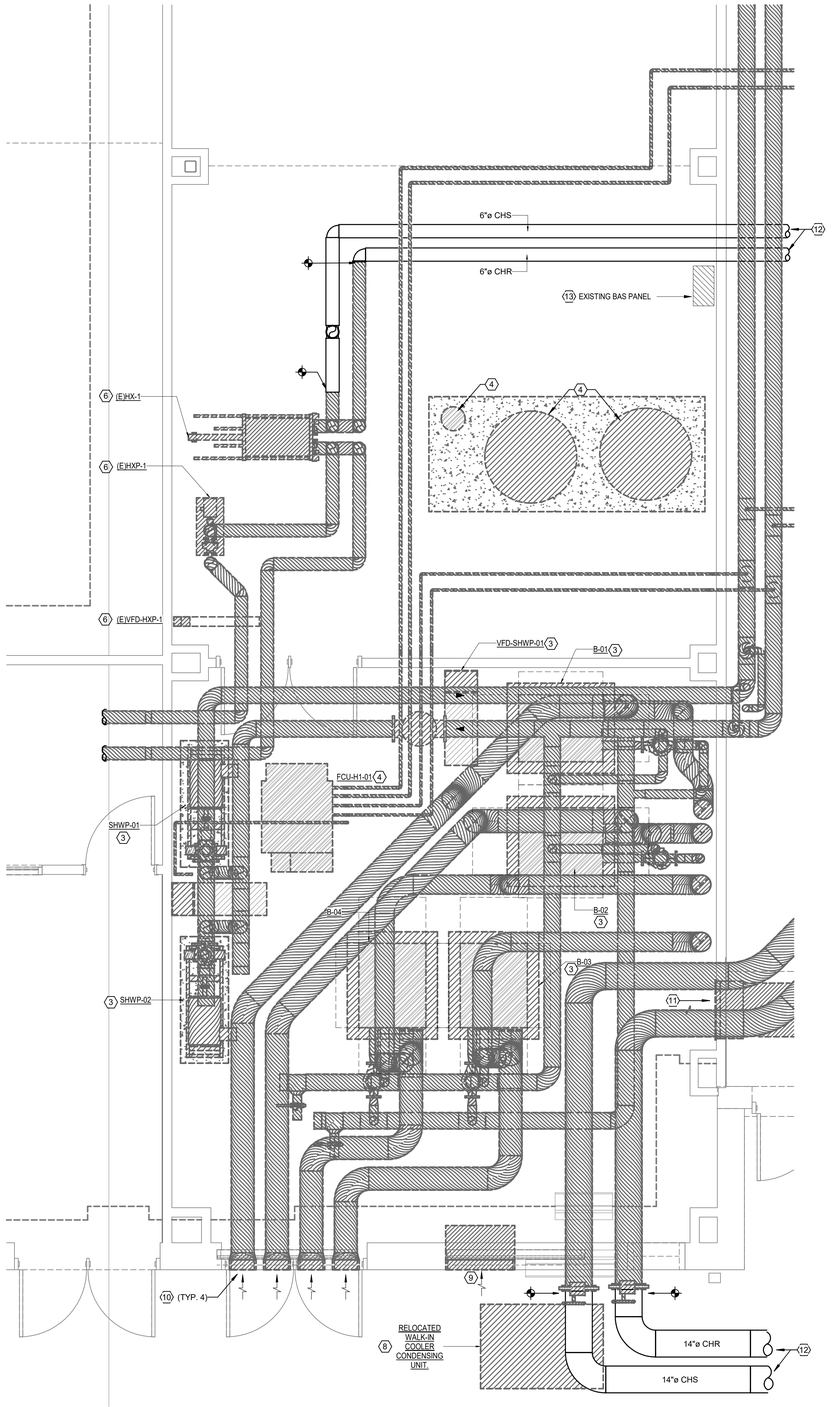
ENLARGED TEMPORARY MECHANICAL PLAN

M-201

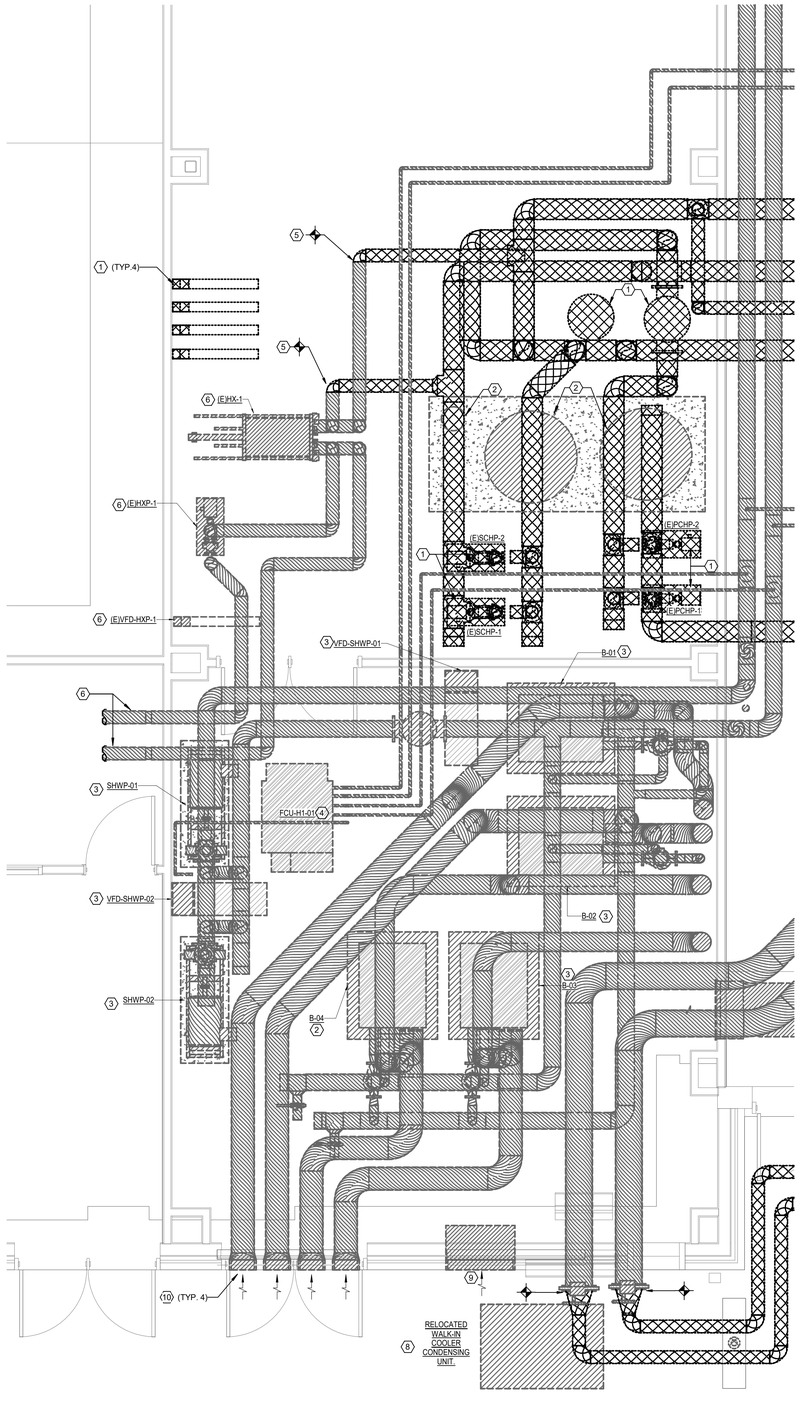
Plot Stamp:
12/3/2025 6:03:16 PM

0"
1"

ENLARGED MECHANICAL PLAN
M-202
FOR BLUEBEAM LABELING/OCR:



2 1ST FLOOR CTE ENLARGED MECHANICAL PLAN- AREA H
3/8" = 1'-0"



1 1ST FLOOR CTE ENLARGED DEMO MECHANICAL PLAN - AREA H
3/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. EXISTING CTE CHILLED WATER SYSTEM TO BE DEMOLISHED AND REPLACED AFTER THE ARRIVAL OF PKG 3C CENTRAL PLANT. EXISTING PIPING, PIPING ACCESSORIES, AND SUPPORTS ARE TO BE REMOVED UP TO POINT INDICATED ON PLAN. EXISTING PUMPS AND VFDs TO BE DEMOLISHED. EQUIPMENT TO BE HANDED OVER TO OWNER. EQUIPMENT HOUSEKEEPING PADS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE TIMING OF DEMOLITION WITH OWNER TO MINIMIZE DOWNTIME.
2. HOT WATER EXPANSION AND CHEMICAL TREATMENT TANKS ADDED DURING REPLACEMENT OF BOILER SYSTEM TO REMAIN. CONFIRM CURRENT LOCATION WITH OWNER AND RELOCATE AS DESIRED.
3. BOILERS AND BOILER SYSTEM TO BE INSTALLED DURING THE SUMMER OF 2026. SEE M-201 FOR DETAILS.
4. SUSPENDED FCU-H1-01 TO BE INSTALLED DURING THE SUMMER OF 2026. SEE M-201 FOR DETAILS.
5. PROVIDE NEW ISOLATION VALVES IN PIPING FOR CONNECTION OF NEW PIPING.
6. EXISTING HEAT EXCHANGER LOOP, HEAT EXCHANGER,HEAT EXCHANGER PUMP, AND PUMP VFD TO REMAIN UNTIL THE CONSTRUCTION BEGINS OF PHASE 4.
7. FOR 6" CHS/R HEAT EXCHANGER PIPING CONTINUATION, SEE M-101H.
8. RELOCATED WALK IN COOLER CONDENSER RELOCATED PRIOR TO PKG 3C CENTRAL PLANT ARRIVAL. SEE M-101HT FOR MORE DETAILS.
9. LOUVER AND PLENUM BOX INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-201 FOR DETAILS.
10. BOILER INTAKES INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-201 FOR DETAILS.
11. EXHAUST GRILLE AND DUCTWORK INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-201 FOR DETAILS.
12. FOR PIPING CONTINUATION, SEE M-101H.
13. CONTRACTOR FOR PKG 3B TO PROVIDE BAS CONNECTION FROM PKG 3C CENTRAL PLANT TO EXISTING CTE BAS.

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1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

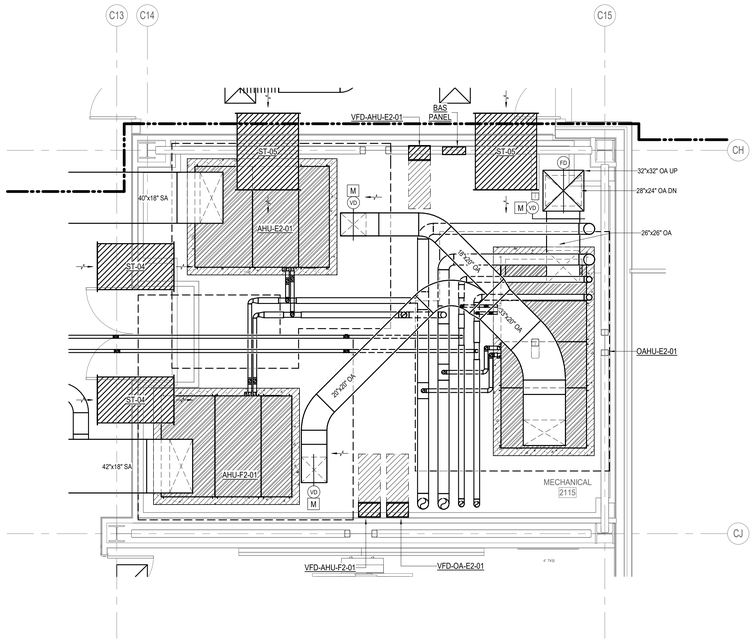
ENLARGED MECHANICAL PLAN

M-202

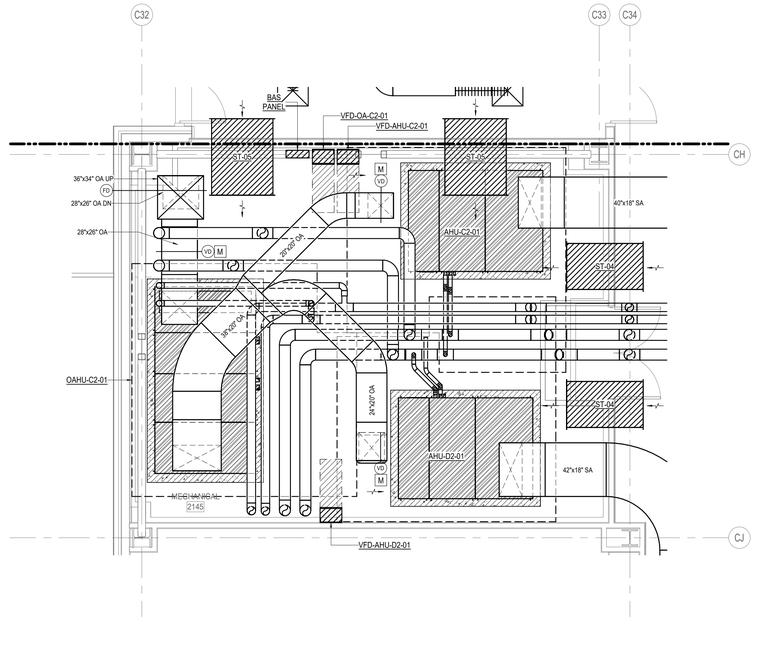
Plot Stamp:
12/3/2025 6:03:24 PM

0"
1"

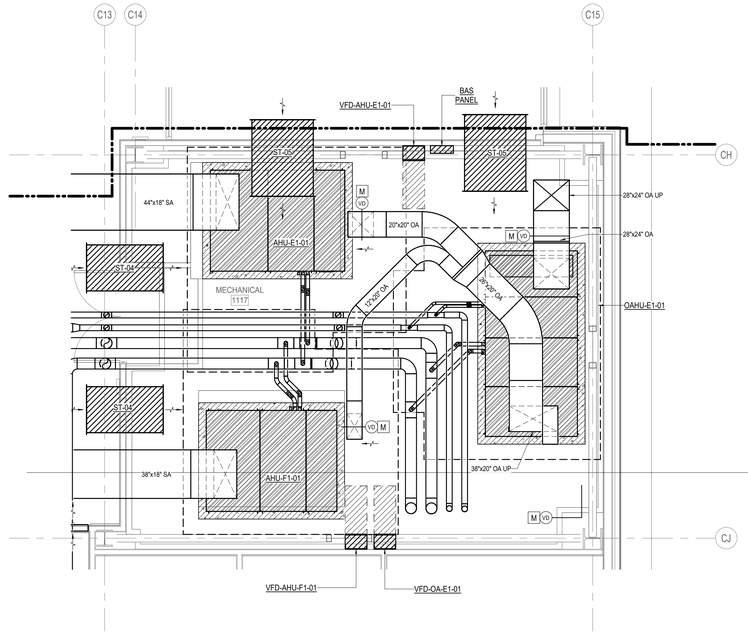
ENLARGED MECHANICAL PLAN
M-203
FOR BLUEBEAM LABELING/OCR:



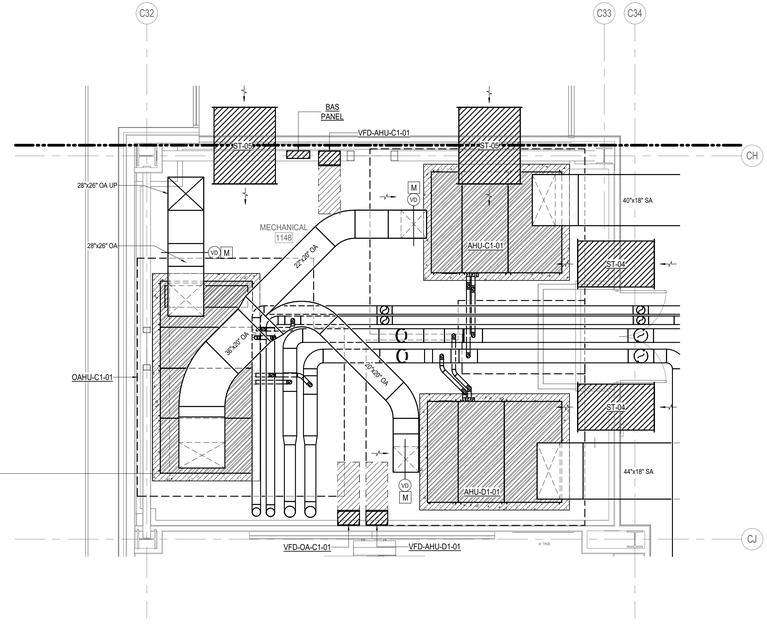
4 2ND FLOOR MPF ENLARGED MECHANICAL ROOM (2115)
1/4" = 1'-0"



3 2ND FLOOR MPF ENLARGED MECHANICAL ROOM (2145)
1/4" = 1'-0"



2 1ST FLOOR MPF ENLARGED MECHANICAL ROOM (1117
1/4" = 1'-0"



1 1ST FLOOR MPF ENLARGED MECHANICAL ROOM (1148)
1/4" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2.
3.
4.

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CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

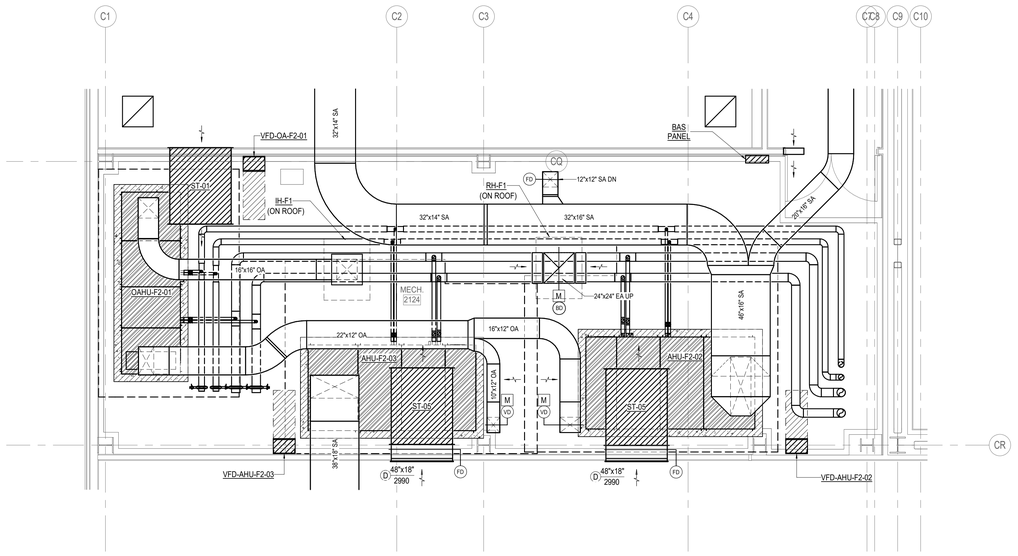
ENLARGED MECHANICAL PLAN

M-203

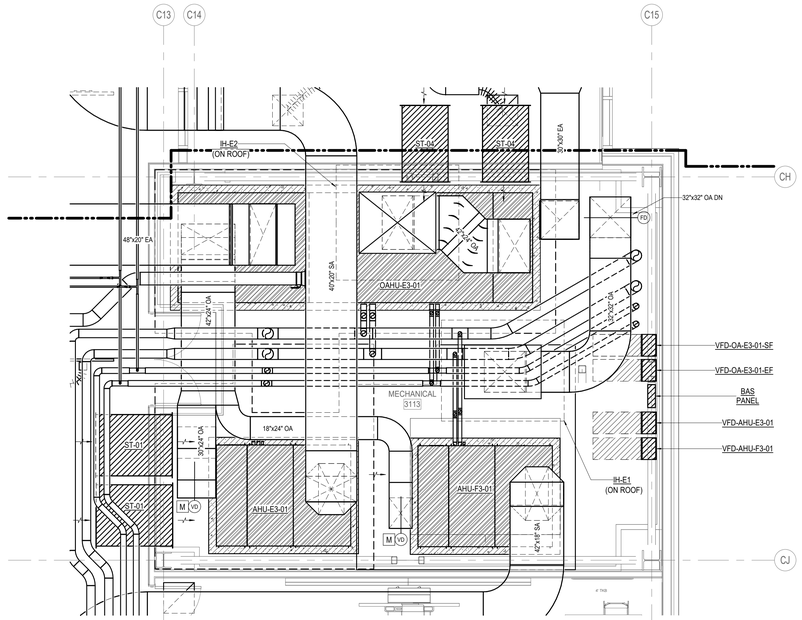
Plot Stamp:
12/3/2025 6:03:31 PM

0"
1"

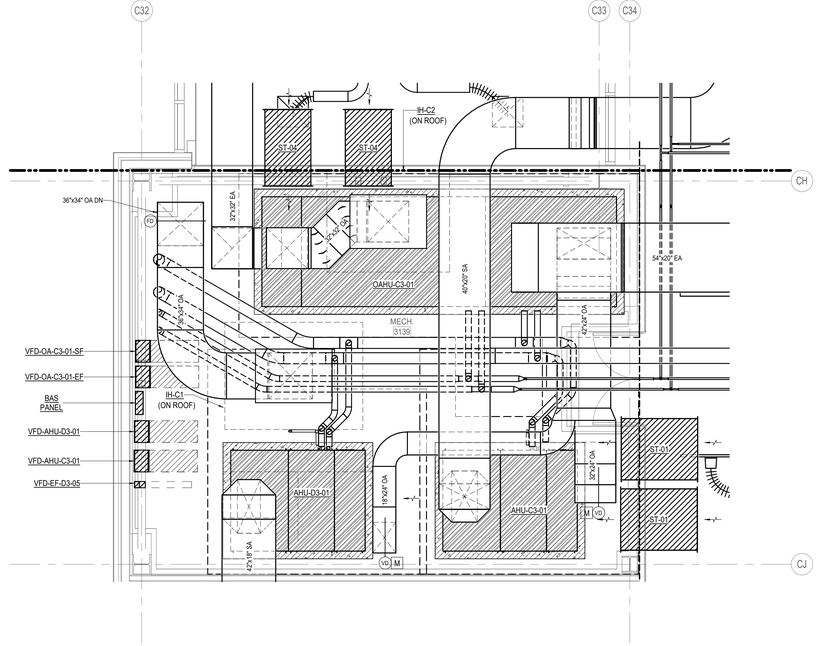
ENLARGED MECHANICAL PLAN
M-204
FOR BLUEBEAM LABELING/OCR:



3 2ND FLOOR MPF ENLARGED MECHANICAL ROOM (2124)
1/4" = 1'-0"



2 3RD FLOOR MPF ENLARGED MECHANICAL ROOM (3113)
1/4" = 1'-0"



1 3RD FLOOR MPF ENLARGED MECHANICAL ROOM (3139)
1/4" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2.
3.
4.

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

ENLARGED MECHANICAL PLAN

M-204

Plot Stamp:
12/3/2025 6:03:36 PM

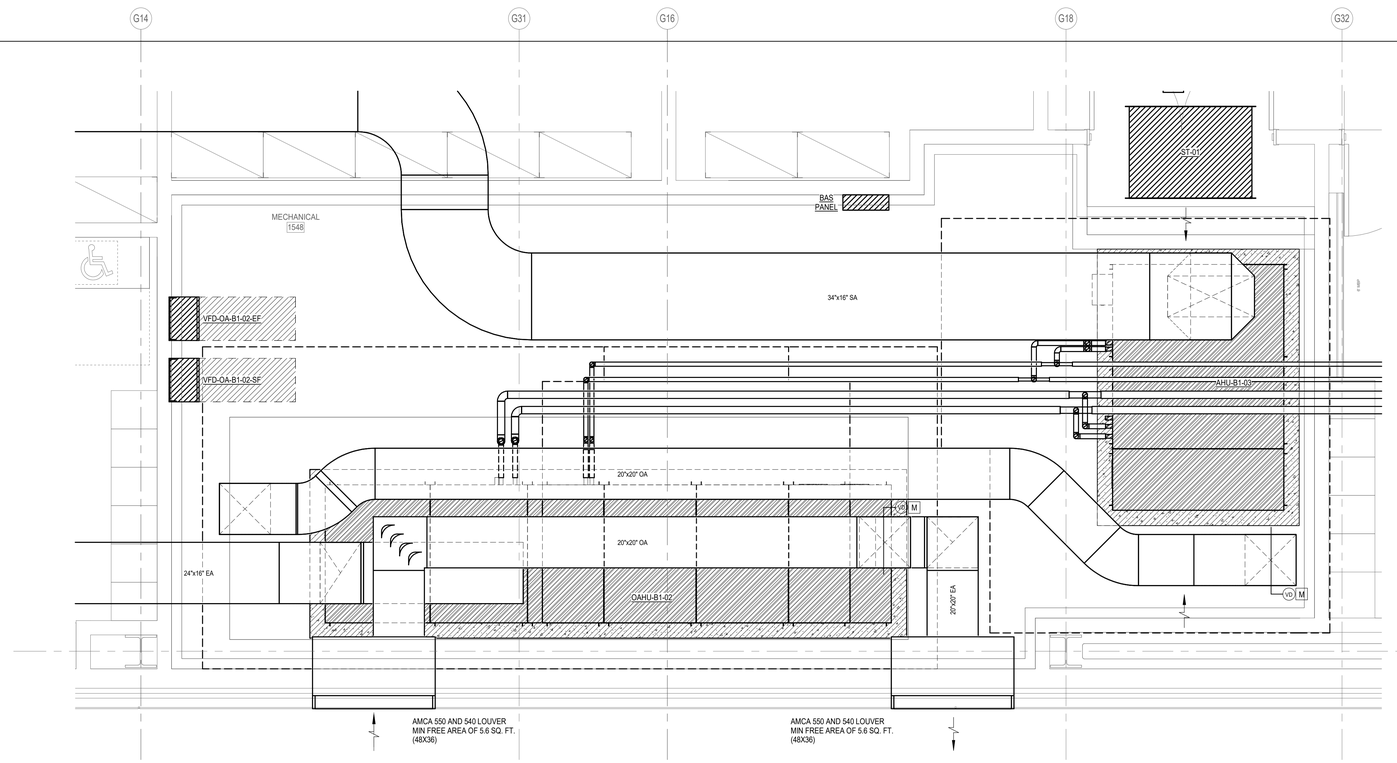
0"
1"

ENLARGED MECHANICAL PLAN
M-205
FOR BLUEBEAM LABELING/OCR:

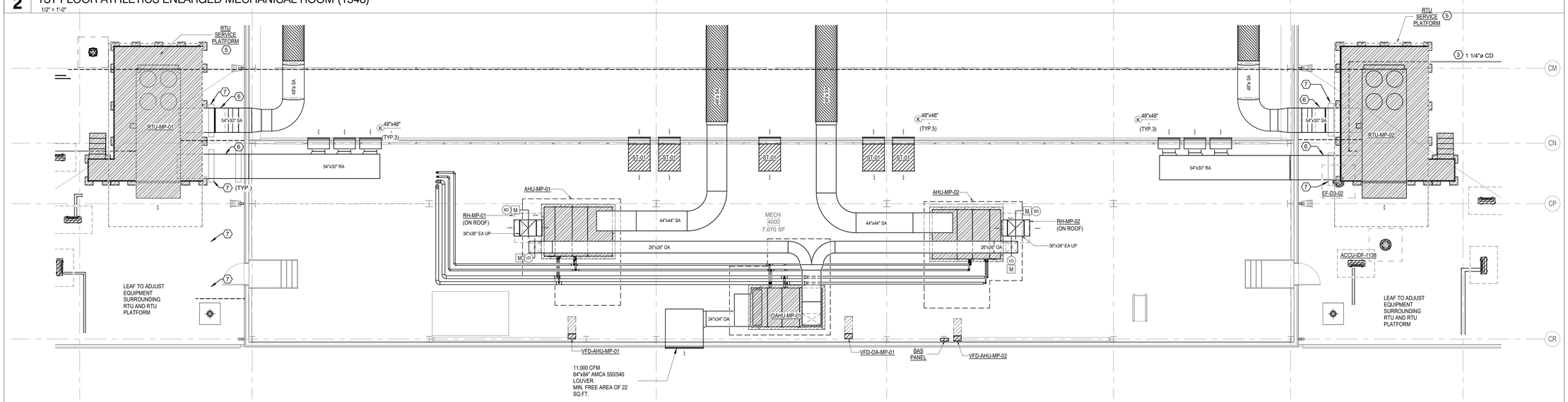
-

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN LINE SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. ROUTE CONDENSATE TO DRAIN LINE SIZED AS SHOWN TO NEAREST ROOF DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
5. CUSTOM ELEVATED MODULAR SERVICE PLATFORM MANUFACTURED BY PHP SYSTEMS DESIGN AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO SPECIFICATION 23 05 29; 2.13 ELEVATED MODULAR SERVICE PLATFORM WITH STAIRS FOR FURTHER REQUIREMENTS
6. REFER TO METAL DUCT SPECIFICATION FOR OUTDOOR DUCTWORK REQUIREMENTS.
7. PROVIDE PORTABLE DUCT SUPPORT IN MAXIMUM 5'-0" INTERNALS.



2 1ST FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1548)
1/2" = 1'-0"



1 ENLARGED MECHANICAL ROOM (4000)
1/8" = 1'-0"

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DRAWING HISTORY

No.	Description	Date

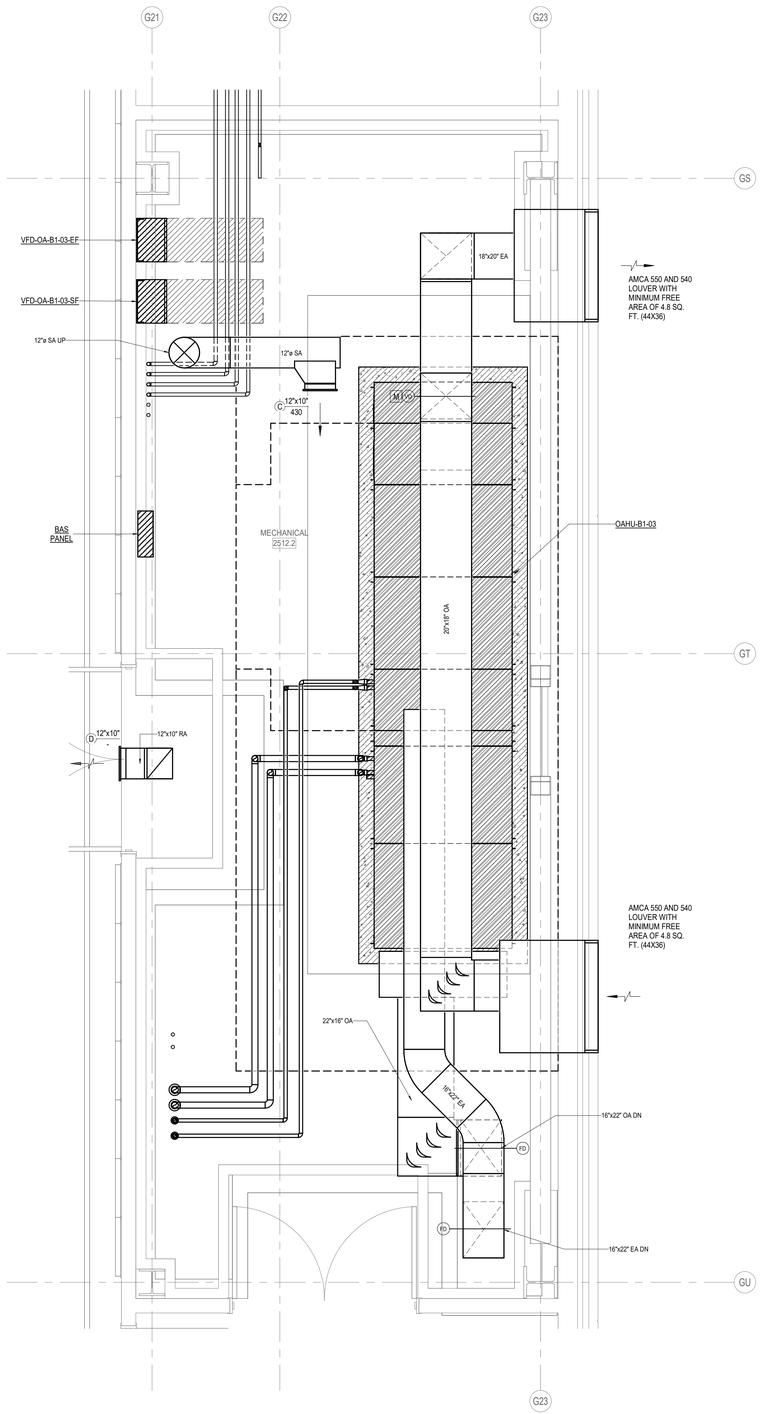
CHECKED BY: MP
DRAWN BY: CT

ENLARGED MECHANICAL PLAN

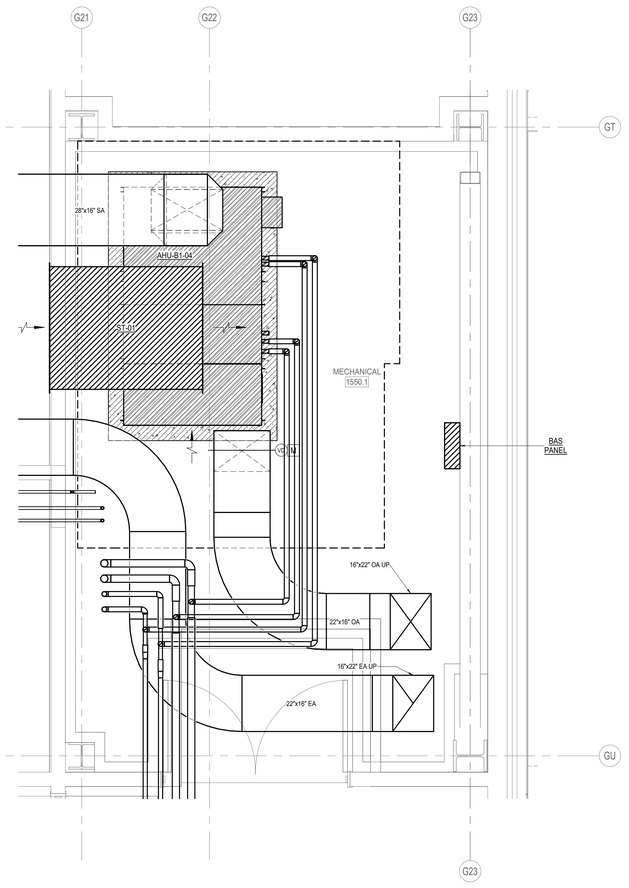
M-205

0"
1"

ENLARGED MECHANICAL PLAN
M-206
FOR BLUEBEAM LABELING/OCR:



2 2ND FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (2512.2)
1/2" = 1'-0"



1 1ST FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1550.1)
1/2" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2.
3.
4.

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DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

ENLARGED MECHANICAL PLAN

M-206

Plot Stamp:
12/3/2025 6:03:43 PM

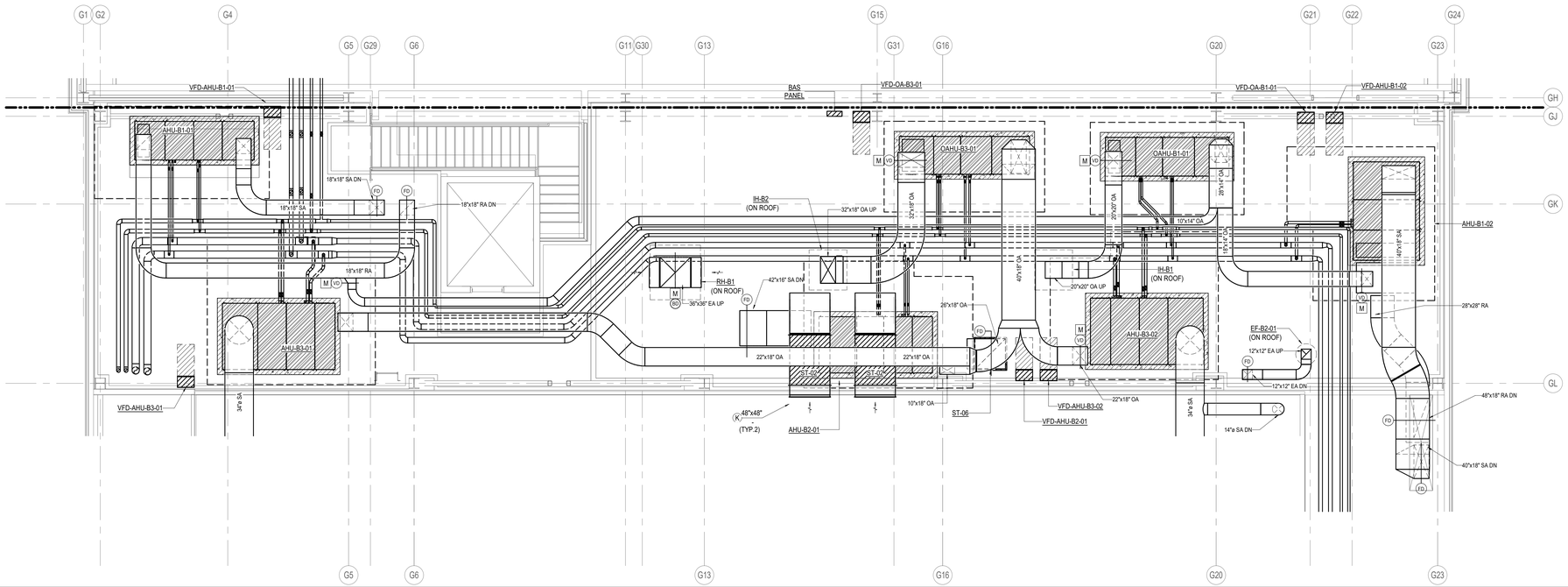
0"

1"

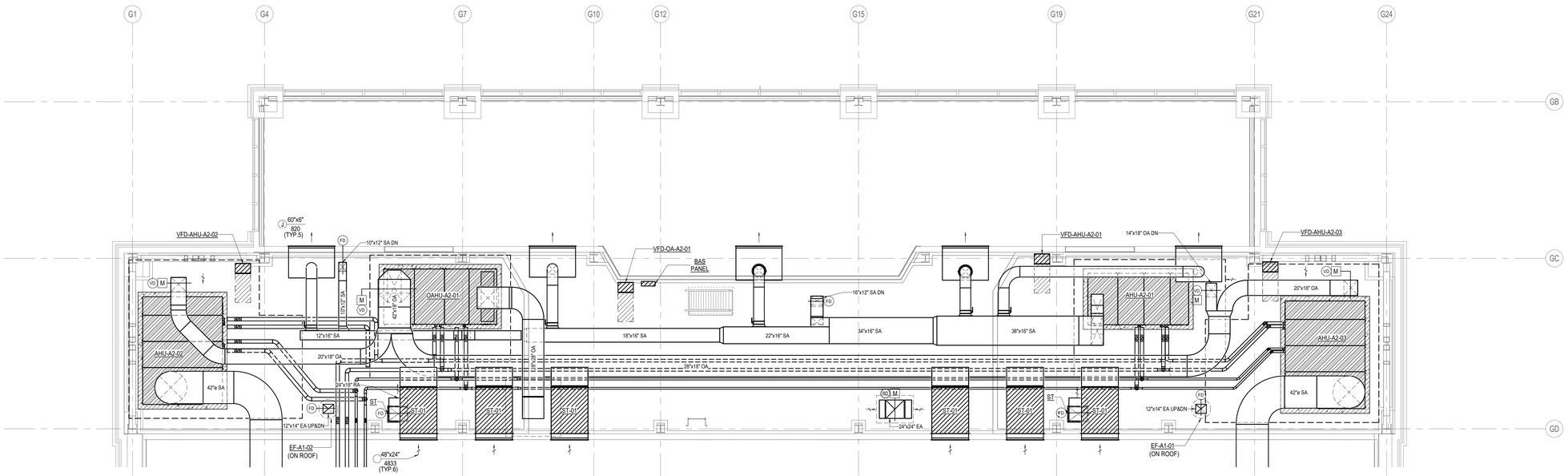
ENLARGED MECHANICAL PLAN
M-207
FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2.
3.
4.

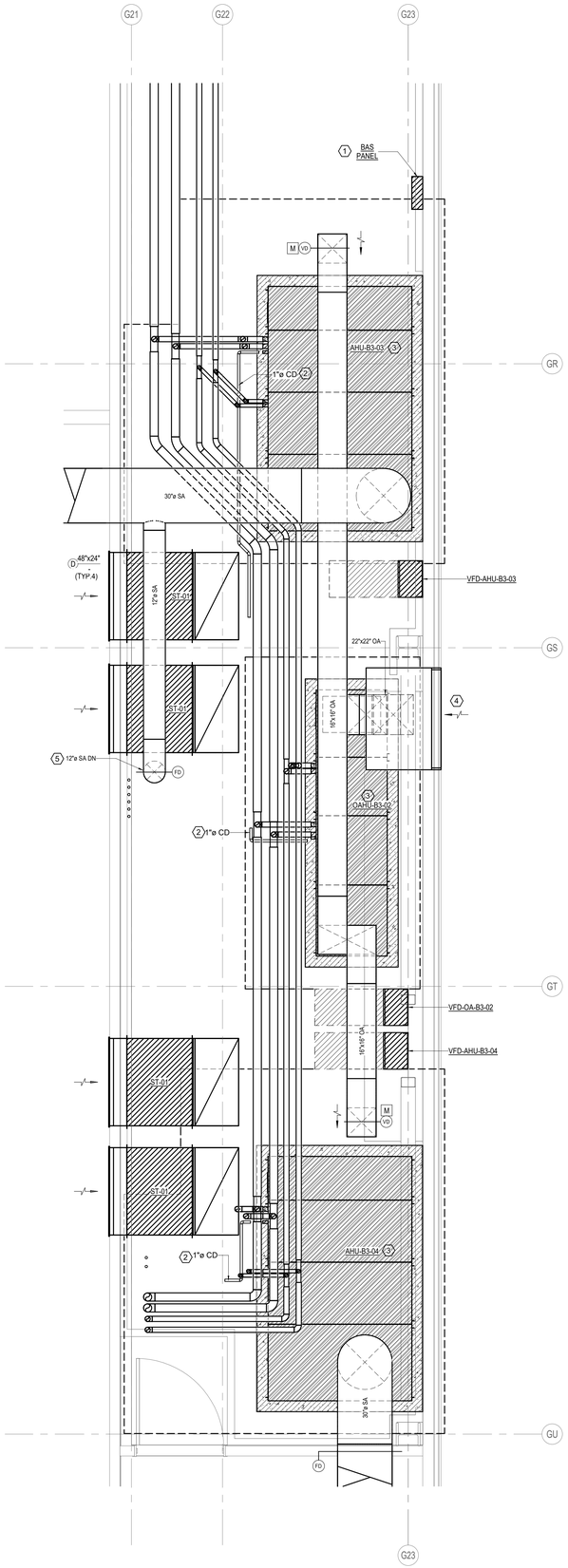


2 3RD FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1650.1)
SCALE: 3/16" = 1'-0"



0"
1"

ENLARGED MECHANICAL PLAN
M-208
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. PROVIDE AMCA 550 AND 540 LOUVER WITH MINIMUM FREE AREA OF 6.4 SQ. FT. REFER TO ARCH DRAWINGS AND SPECS FOR ADDITIONAL DETAILS
5. ROUTE DUCTWORK DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT PENETRATION. FOR DUCTWORK CONTINUATION, SEE M-206.

1 **3RD FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1650.2)**
SCALE: 3/8" = 1'-0"

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DRAWING HISTORY

No.	Description	Date

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DRAWN BY: CT

ENLARGED MECHANICAL PLAN

M-208

Plot Stamp:
12/3/2025 6:03:49 PM

0"
1"

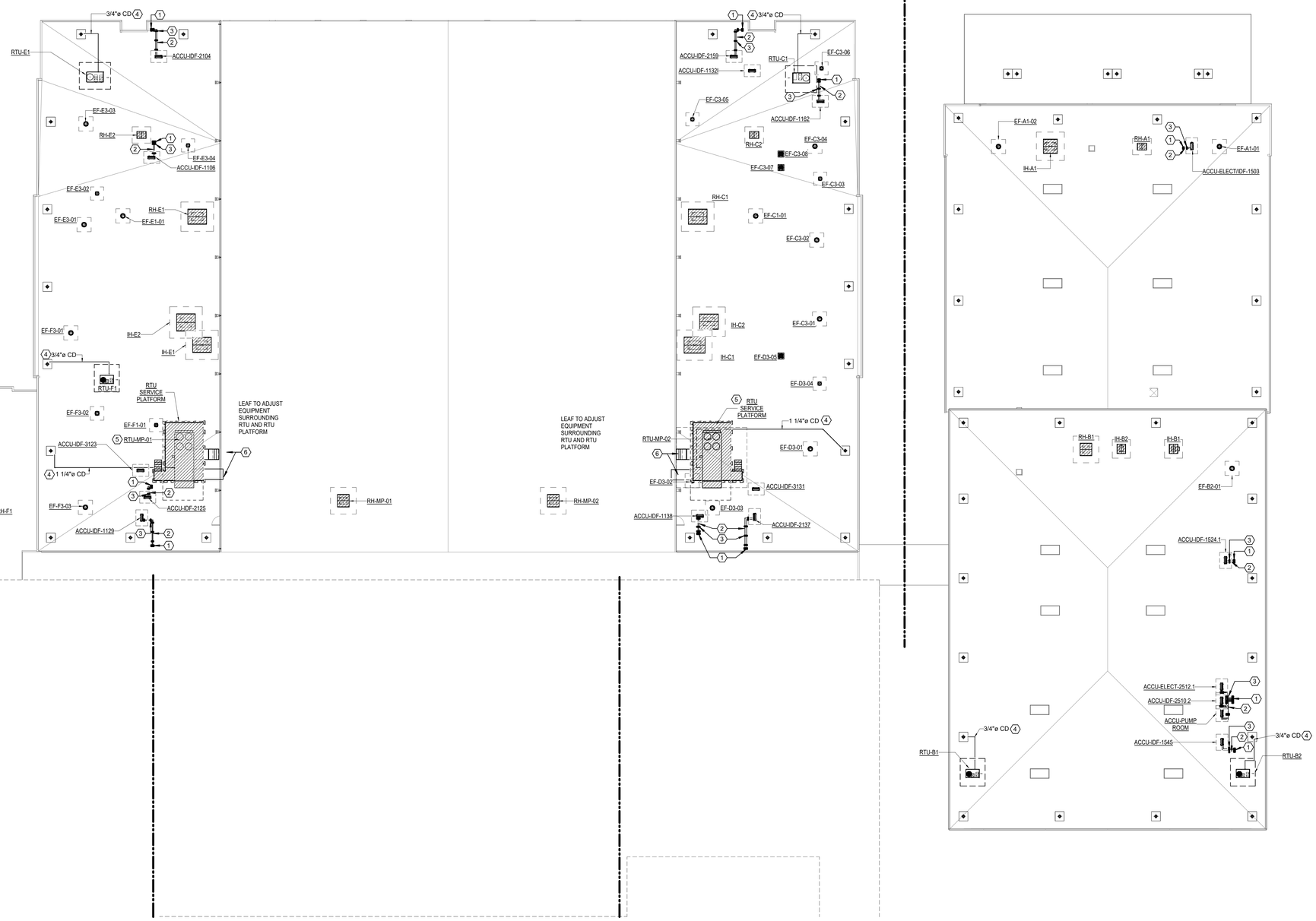
MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

M-301

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE STAINLESS STEEL HOODED CURB AT ROOF PENETRATION. REFER TO ARCHITECTURAL DRAWING.
2. ALL EXPOSED AND OUTDOOR LIQUID AND SUCTION LINES SHALL BE WRAPPED WITH ALUMINUM JACKETING.
3. PROVIDE PORTABLE PIPE SUPPORTS FOR PIPING IN MAX. HORIZONTAL SPACING OF 5'-0".
4. ROUTE CONDENSATE DRAIN LINE SIZED AS SHOWN TO NEAREST ROOF DRAIN.
5. CUSTOM ELEVATED MODULAR SERVICE PLATFORM MANUFACTURED BY PHP SYSTEMS DESIGN AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO SPECIFICATION 23 05 29; 2.13 ELEVATED MODULAR SERVICE PLATFORM WITH STAIRS FOR FURTHER REQUIREMENTS
6. FOR RTU DUCTWORK, REFER TO M-205



1 **MECHANICAL ROOF PLAN**
SCALE: 1" = 20'-0"

Plot Stamp:
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

M-301

0"

1"

MECHANICAL SCHEDULES
M-501
FOR BLUEBEAM LABELING/DOCR:

CONDENSING BOILER SCHEDULE

DESIGNATION	TYPE	LOCATION	NOTES	BURNER FUEL	MIN. OUTPUT (BTUH)	MIN. EFFICIENCY	FUEL CONSUMPTION (BTUH)	MANUFACTURER	MODEL NUM...	GPM	E.W.T. (°F)	L.W.T. (°F)	FLUE SIZE (DIA.)	DIMENSIONS (L x W x H)	WEIGHT (LBS)	BOILER ELECTRICAL INFORMATION		CIRCULATING PUMP ELECTRICAL INFORMATION			
																MOCP	VOLT / Ø / HZ	DESIGNATI...	MAX...	FLA	VOLT / Ø / HZ
B-01	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVE...	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-01	2	9.7	208 / 3 / 60
B-02	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVE...	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-02	2	9.7	208 / 3 / 60
B-03	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVE...	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-03	2	9.7	208 / 3 / 60
B-04	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVE...	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-04	2	9.7	208 / 3 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. PROVIDE AUXILIARY PUMP AS REQUIRED BY MANUFACTURER TO CIRCULATE WATER AT BYPASS CONDITIONS. REFER TO ELECTRICAL DRAWINGS.
3. PROVIDE CATEGORY IV FLUE PIPE, INNER PIPE OF AL29-4C AND OUTER PIPE OF 430 STAINLESS STEEL.
4. PROVIDE WITH A CONDENSATE NEUTRALIZATION KIT WITH SCHEDULE 8-CPVC CONDENSATE PIPING.
5. CONDENSING BOILER HEAT EXCHANGER SHALL BE OF STAINLESS STEEL. COPPER HEAT EXCHANGERS ARE NOT ACCEPTABLE: REFER TO SPECIFICATION.
6. BOILER MANUFACTURER SHALL PROVIDE CONTROLS FOR BOILER SEQUENCING AND CONTROL. BAS SHALL INTERFACE TO BOILER CONTROL PANEL.
7. MANUFACTURER SHALL PROVIDE BACNET INTERFACE CARD ANY ACCESSORIES REQUIRED TO FACILITATE 2-WAY COMMUNICATION WITH THE BAS CONTRACTOR'S SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING AND PROGRAMMING OF COMMUNICATION CARD (i.e. BACnet)
8. BOILER TO ENABLE RESPECTIVE CIRCULATING PUMP. PROVIDE SEPARATE POINT CONNECTION TO BOILER AND CIRCULATING PUMP. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STARTER AND DISCONNECT WITH HOA AS REQUIRED FOR BOILER AND CIRCULATING PUMP; COORDINATE WITH BOILER MANUFACTURER.
9. FLUE PIPING SHALL BE PROVIDED AND SUBMITTED BY BOILER DISTRIBUTOR AFTER BOILER SUBMITTAL HAS BEEN APPROVED BY ENGINEER. FLUE PIPE SHALL NOT BE SUBMITTED BY ANY OTHER PARTY OTHER THAN THE BOILER SALES REPRESENTATIVE AWARDED THE PROJECT. FLUE PIPE SHALL BE INSTALLED BY MECHANICAL CONTRACTOR.
10. BOILER REPRESENTATIVE IS RESPONSIBLE FOR PROVIDING THE GAS REGULATORS FOR EACH BOILER TO PROVIDE PROPER GAS FLOW REQUIRED. REGULATORS TO BE INSTALLED AND VENTED BY PLUMBING CONTRACTOR AS REQUIRED.
11. BOILER REPRESENTATIVE IS TO COORDINATE WITH CONTROLS CONTRACTOR TO INSTALL LOW VOLTAGE WIRING FOR BACnet, CASCADE, BMS AND HW SYSTEM LOOP SENSOR. LOW WATER CUTOFF FLOW SWITCH AS NEEDED.
12. PROVIDE FIRE-TUBE BOILER.

HYDRONIC PUMP SCHEDULE

DESIGNATION	SERVICE	TYPE	NOTES	GPM	HEAD (FT. H20)	EFFICIENCY	RPM (MAX.)	MOTOR B.H.P.	MOTOR H.P.	VOLTS / Ø / HZ	MANUFACTURER	MODEL NUMBER	MINIMUM NPSHR (FT.)
SHWP-01	BUILDING HW LOOP	HORIZONTAL BASE-MOUNTED END SUCTION	1-6	410	120'	76.6%	1,800	16.2	25	460 / 3 / 60	PENTAIRE / AURORA	3800 SERIES	9.37
SHWP-02	BUILDING HW LOOP	HORIZONTAL BASE-MOUNTED END SUCTION	1-6	410	120'	76.6%	1,800	16.2	25	460 / 3 / 60	PENTAIRE / AURORA	3800 SERIES	9.37

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. IMPELLER SHALL NOT EXCEED 85% OF CUTWATER DIAMETER.
3. PUMP CURVE SHALL HAVE A MINIMUM OF 8 PSI DIFFERENTIAL BETWEEN 65% OF DESIGN FLOW AND 100% OF DESIGN FLOW.
4. PROVIDE VARIABLE FREQUENCY DRIVE FOR VARIABLE FLOW OPERATION.
5. PUMPS ARE TO BE SELECTED FOR PARALLEL OPERATION.
6. PUMPS SHALL HAVE RE-GREASEABLE BEARINGS WITH ALEMITE FITTINGS; SEALED BEARINGS ARE UNACCEPTABLE.

MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	DISCHARGE ARRANGEMENT	MANUFACTURER	MODEL	DIMENSIONS (L x W x H) INCHES	WEIGHT (LBS.)	SEE NOTE	BLOWER DATA									COOLING COIL DATA								HEATING COIL DATA							
										TOTAL CFM	OUTSIDE AIR CFM		EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR H.P. (EACH)	VARIABLE FREQUENCY DRIVE H.P.	TYPE	VOLTAGE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	SENSIBLE BTUH	TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)
											MAX	MIN																						
AHU-C1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 61	2,900	1-12	9,000	3,500	1,050	1.2	5.60	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,000	500	223,560	292,104	78°F	65°F	55°F	37	42°F	58°F	-	-	-	-	-	-
AHU-D1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	10,250	3,200	1,000	1.2	6.90	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	10,250	500	254,610	332,674	78°F	65°F	55°F	42	42°F	58°F	-	-	-	-	-	-
AHU-E1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	9,695	2,900	1,200	1.2	6.40	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,695	500	240,824	314,661	78°F	65°F	55°F	39	42°F	58°F	-	-	-	-	-	-
AHU-F1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 51	2,600	1-12	7,960	1,500	450	1.2	5.20	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	7,960	500	197,726	258,350	78°F	65°F	55°F	32	42°F	58°F	-	-	-	-	-	-
AHU-C2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 51	2,600	1-12	8,745	2,900	1,000	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	8,745	500	217,226	283,828	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-
AHU-D2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	9,590	3,900	1,170	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,590	500	238,216	311,253	78°F	65°F	55°F	39	42°F	58°F	-	-	-	-	-	-
AHU-E2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 51	2,600	1-12	8,710	2,600	780	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	8,710	500	216,356	282,692	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-
AHU-F2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 61	2,900	1-12	9,315	3,300	1,000	1.2	6.00	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,315	500	231,385	302,328	78°F	65°F	55°F	38	42°F	58°F	-	-	-	-	-	-
AHU-C3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	10,480	6,940	6,940	1.2	7.40	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	10,480	500	260,323	340,139	78°F	65°F	55°F	43	42°F	58°F	-	-	-	-	-	-
AHU-D3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	9,475	3,360	3,360	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,475	500	235,359	307,521	78°F	65°F	55°F	38	42°F	58°F	-	-	-	-	-	-
AHU-E3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	10,455	6,900	6,900	1.2	7.40	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	10,455	500	259,702	339,327	78°F	65°F	55°F	42	42°F	58°F	-	-	-	-	-	-
AHU-F3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-12	9,300	3,300	2,160	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,300	500	231,012	301,841	78°F	65°F	55°F	38	42°F	58°F	-	-	-	-	-	-
AHU-F2-02	LIBRARY	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	132 x 74 x 47	2,800	1-12	6,810	1,100	330	1.0	5.40	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	6,810	500	169,160	221,025	78°F	65°F	55°F	28	42°F	58°F	6,810	750	183,870	60°F	85°F	9	180°F	140°F
AHU-F2-03	MAIN STREET	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	131 x 69 x 47	2,600	1-12	5,980	600	180	1.2	5.30	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	5,980	500	148,543	194,087	78°F	65°F	55°F	24	42°F	58°F	5,980	750	161,460	60°F	85°F	8	180°F	140°F
AHU-A2-01	LOBBY	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	131 x 69 x 47	2,600	1-12	5,590	1,400	1,400	1.0	4.30	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	5,590	500	138,856	181,429	78°F	65°F	55°F	23	42°F	58°F	5,590	750	150,930	60°F	85°F	8	180°F	140°F
AHU-A2-02	MAIN GYM	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	140 x 106 x 61	4,700	1-12	14,500	2,500	750	1.2	10.80	2 @7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	14,500	500	360,180	470,612	78°F	65°F	55°F	59	42°F	58°F	14,500	750	391,500	60°F	85°F	20	180°F	140°F
AHU-A2-03	MAIN GYM	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	140 x 106 x 61	4,700	1-12	14,500	2,500	750	1.2	10.80	2 @7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	14,500	500	360,180	470,612	78°F	65°F	55°F	59	42°F	58°F	14,500	750	391,500	60°F	85°F	20	180°F	140°F
AHU-B1-01	WEIGHT ROOM	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	142 x 48 x 37	1,800	1-13	2,280	900	270	1.5	2.00	2 hp	2	DIRECT DRIVE - PF	460 / 3 / 60	2,280	500	56,635	74,000	78°F	65°F	55°F	9	42°F	58°F	2,280	750	61,560	60°F	85°F	3	180°F	140°F
AHU-B1-02	TEAMS ROOM	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	117 x 81 x 51	2,900	1-13	8,555	1,600	480	1.8	7.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	8,555	500	212,506	277,661	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-	-	-
AHU-B1-03	GIRLS LOCKERS ROOMS	SINGLE ZONE VAV	VERTICAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	96 x 69 x 74	2,200	1-4, 6-12, 19	4,320	2,810	2,810	1.0	3.00	3 hp	-	DIRECT DRIVE - PF	460 / 3 / 60	4,320	500	107,309	140,210	78°F	65°F	55°F	18	42°F	58°F	4,320	750	116,640	60°F	85°F	6	180°F	140°F
AHU-B1-04	BOYS LOCKERS ROOMS	SINGLE ZONE VAV	VERTICAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	93 x 56 x 72	1,900	1-4, 6-12, 19	3,435	2,410	2,410	1.0	2.10	3 hp	-	DIRECT DRIVE - PF	460 / 3 / 60	3,435	500	85,325	111,486	78°F	65°F	55°F	14	42°F	58°F	3,435	750	92,745	60°F	85°F	5	180°F	140°F
AHU-B2-01	TEAM LOUNGE	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	FRONT DISCHARGE	CARRIER	39MN	135 x 69 x 40	2,200	1-12	4,865	1,000	1,000	1.0	3.40	5 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	4,865	500	120,847	157,898	78°F	65°F	55°F	20	42°F	58°F	4,865	750	131,355	60°F	85°F	7	180°F	140°F
AHU-B3-01	GYM A	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 61	3,400	1-12	9,000	1,900	570	1.0	4.80	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,000	500	223,560	292,104	78°F	65°F	55°F	37	42°F	58°F	9,000	750	243,000	60°F	85°F	12	180°F	140°F
AHU-B3-02	GYM A	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 61	3,400	1-12	9,000	1,900	570	1.0	5.70	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,000	500	223,560	292,104	78°F	65°F	55°F	37	42°F	58°F	9,000	750	243,000	60°F	85°F	12	180°F	140°F
AHU-B3-03	GYM B	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 51	3,100	1-12	7,500	1,600	480	1.0	4.80	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	7,500	500	186,300	243,420	78°F	65°F	55°F	30	42°F	58°F	7,500	750	202,500	60°F	85°F	10	180°F	140°F
AHU-B3-04	GYM B	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 51	3,100	1-12	7,500	1,600	480	1.0	4.80	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	7,500	500	186,300	243,420	78°F	65°F	55°F	30	42°F	58°F	7,500	750	202,500	60°F	85°F	10	180°F	140°F
AHU-MP-01	MULTIPURPOSE	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARE	CARRIER	39MN	151 x 111 x 78	6,300	1-12	19,000	5,500	1,650	1.2	13.00	2 @ 7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	19,000	500	471,960	616,664	78°F	65°F	55°F	77	42°F	58°F	19,000	750	513,000	60°F	85°F	26	180°F	140°F
AHU-MP-02	MULTIPURPOSE	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARE	CARRIER	39MN	151 x 111 x 78	6,300	1-12	19,000	5,500	1,650	1.2	13.00	2 @ 7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	19,000	500	471,960	616,664	78°F	65°F	55°F	77	42°F	58°F	19,000	750	513,000	60°F	85°F	26	180°F	140°F
OAHU-C1-01	AHU-C1-01 & AHU-D1-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	150 x 74 x 47	3,300	1-11, 13-18	6,700	6,700	2,010	1.2	6.60	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	6,700	500	296,676	608,306	96°F	80°F	55°F	76	42°F	58°F	6,700	750	253,260	20°F	50°F	13	180°F	140°F
OAHU-E1-01	AHU-E1-01 AND AHU-F1-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	145 x 74 x 47	3,100	1-11, 13-18	5,950	5,950	1,785	1.5	5.70	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	5,950	500	263,466	540,212	96°F	80°F	55°F	68	42°F	58°F	5,950	750	224,910	20°F	50°F	11	180°F	140°F
OAHU-C2-01	AHU-C2-01 & AHU-D2-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	146 x 81 x 51	3,500	1-11, 13-18	6,800	6,800	2,040	1.0	5.50	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	6,800	500	301,104	617,386	96°F	80°F	55°F	77	42°F	58°F	6,800	750	257,040	20°F	50°F	13	180°F	140°F
OAHU-E2-01	AHU-E2-01 & AHU-F2-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	151 x 69 x 47	2,900	1-11, 13-18	5,900	5,900	1,770	1.0	3.60	5 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	5,900	500	261,252	535,673	96°F	80°F	55°F	67	42°F	58°F	5,900	750	223,020	20°F	50°F	11	180°F	140°F
OAHU-F2-01	AHU-F2-02 & AHU-F2-03	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	142 x 48 x 37	1,700	1-11, 13-18	1,700	1,700	510	0.8	1.50	1.5 hp	1 1/2	DIRECT DRIVE - PF	460 / 3 / 60	1,700	500	75,276	154,346	96°F	80°F	55°F	19	42°F	58°F	1,700	750	64,260	20°F	50°F	3	180°F	140°F
OAHU-A2-01	AHU-A2-01, AHU-A2-02, AHU-A2-03	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	147 x 74 x 47	3,300	1-11, 13-18	6,400	6,400	1,920	0.8	5.30	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	6,400	500	283,392	581,069	96°F	80°F	55°F	73	42°F	58°F	6,400	750	241,920	20°F	50°F	12	180°F	140°F
OAHU-B1-01	AHU-B1-01 & AHU-B1-02	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	147 x 48 x 37	1,900	1-11, 13-18	2,500	2,500	750	0.8	1.80	2 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	2,500	500	110,700	226,980	96°F	80°F	55°F	28	42°F	58°F	2,500	750	94,500	20°F	50°F	5	180°F	140°F
OAHU-B3-01	AHU-B2-01, AHU-B3-01, AHU-B3-02	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	155 x 47 x 66	2,900	1-11, 13-18	4,800	4,800	1,440	0.8	3.30	5 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	4,800	500	212,544	435,802	96°F	80°F	55°F	54	42°F	58°F	4,800	750	181,440	20°F	50°F	9	180°F	140°F
OAHU-B3-02	AHU-B3-03 & AHU-B3-04	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	146 x 41 x 60	2,300	1-11, 13-18	3,200	3,200	960	0.8	2.50	3 hp	3	DIRECT DRIVE - PF	460 / 3 / 60	3,200	500	141,696	290,534	96°F	80°F	55°F	36	42°F	58°F	3,200	750	120,960	20°F	50°F	6	180°F	140°F
OAHU-MP-01	AHU-MP-01 & 02	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	156 x 88 x 61	4,900	1-11, 13-18	11,000	11,000	3,300	0.8	7.50	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	11,000	500	487,080	998,712	96°F	80°F	55°F	125	42°F	58°F	11,000	750	415,800	20°F	50°F	21	180°F	140°F

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. AIR HANDLING UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. COOLING COILS SHALL HAVE A PRESSURE DROP THROUGH COIL SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. PROVIDE VARIABLE FREQUENCY DRIVE.
6. FAN CONSTRUCTION SHALL BE MINIMUM AMCA CLASS II.
7. PROVIDE FACTORY MOUNTED AND WIRED EXTERNAL JUNCTION BOXES ON FAN SECTION. J-BOX SHALL ALLOW ELECTRICAL CONTRACTOR TO LAND POWER TO DEVICE WITHOUT PENETRATING THROUGH CABINET. FIELD INSTALLED JUNCTION BOXES ARE NOT ACCEPTABLE.
8. PROVIDE FACTORY MOUNTED SHAFT GROUNDING KIT FOR AIR HANDLING UNIT MOTOR, NO EXCEPTIONS.
9. PROVIDE WITH ANGLED MERV 13 FILTERS.
10. UNITS WITH MULTIPLE FANS AND MOTORS, PROVIDE FACTORY INSTALLED AND WIRED MOTOR OVERLOAD PANEL FOR CONNECTION TO A SINGLE VFD.
11. MANUFACTURER TO PROVIDE UVC LIGHT SECTION DOWNSTREAM OF COOLING COIL TO BE FIELD INSTALLED WITH STAINLESS STEEL DRAIN PAN. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.
12. PROVIDE HOT WATER COIL IN RE-HEAT POSITION.
13. PROVIDE FACTORY MIXING BOX / OUTSIDE AIR PLENUM BOX. REFER TO DRAWINGS FOR OUTSIDE AIR AND RETURN AIR DUCT SIZES.
14. ALL COILS SHALL BE FULLY DIPPED AND BAKED (E-COAT) WITH UV TOP COAT.
15. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
16. OUTSIDE AIR UNITS AND AIR HANDLING UNITS WITH MIXED AIR SHALL HAVE STAINLESS STEEL SOLID 20-GAUGE G90 INTERIOR LINING. PROVIDE 20-GAUGE PERFORATED PANELS IN FAN SECTION AND DISCHARGE PLENUM; REFER TO SPECIFICATION
17. MANUFACTURER TO PROVIDE STAINLESS STEEL OUTSIDE AIR DAMPER. ACTUATOR TO BE INSTALLED BY BAS CONTRACTOR.
18. COILS WITH UNTREATED OUTSIDE AIR AND MIXED AIR (COMBINATION UNTREATED OUTSIDE AIR AND RETURN AIR) SHALL HAVE A FACTORY APPLIED, FLEXIBLE, EPOXY POLYMER E-COAT UNIFORMLY APPLIED TO ALL COIL SURFACE AREAS WITHOUT MATERIAL BRIDGING BETWEEN FINS. HUMIDITY AND WATER IMMERSION RESISTANCE SHALL BE UP TO A MINIMUM 1,000 AND 250 HOURS RESPECTIVELY (ASTM D2247-92 AND ASTM D870-92). CORROSION DURABILITY SHALL BE CONFIRMED THROUGH TESTING TO NO LESS THAN 3,000 HOURS SALT SPRAY PER ASTM B117-90. FIELD APPLIED COATINGS WILL NOT BE ACCEPTABLE.
19. PROVIDE UNITS WITH ECM FANS.

Plot Stamp:
12/3/2025 6:03:57 PM

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HOUSTON, TX
713-366-0808

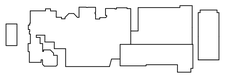
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

M-501

0"

1"

MECHANICAL SCHEDULES
M-502
FOR BLUEBEAM LABELING/DOCR:

MODULAR INDOOR CENTRAL-STATION OUTSIDE AIR-HANDLING UNIT WITH ENERGY CORE SCHEDULE

DESIGNATION	SERVICE	ARRANGEMENT	MANUFACTURER	MODEL NUMBER	DIMENSIONS (L"xW"xH")	WEIGHT (LBS.)	SEE NOTE	SUPPLY AIR BLOWER DATA										EXHAUST / RELIEF AIR BLOWER DATA										TOTAL ENERGY RECOVERY CORE DATA												COOLING COIL DATA							PRE-HEATING COIL DATA							
																												OUTSIDE AIR DATA						EXHAUST / RELIEF AIR DATA																					
								TOTAL SUPPLY CFM	OUTSIDE AIR CFM	MIN OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR HP (EACH)	VARIABLE FREQUENCY DRIVE HP	DRIVE / TYPE	VOLTAGE	CFM	EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR H.P. (EACH)	VARIABLE FREQUENCY DRIVE H.P.	DRIVE / TYPE	VOLTAGE	OUTDOOR AIR (CFM)	MAX. FACE VELOCITY (FPM)	WINTER EAT (°F)	SUMMER EAT (db/wb) (°F)	WINTER LAT (db/wb) (°F)	SUMMER LAT (db/wb) (°F)	EXHAUST AIR (CFM)	MAX. FACE VELOCITY (FPM)	WINTER EAT (db) (°F)	SUMMER EAT (db/wb) (°F)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)
OAHU-C3-01	AHU-C3-01 & AHU-D3-01	HORIZONTAL DRAW-THRU	CARRIER	39MN	263" x 88" x 122"	8,900	1-15	10,300	10,300	10,300	0.8	6.2	2 @ 5 HP	10	DD - PLENUM FAN	460 / 3 / 60	10,300	1.8	4.4	2 @ 3 HP	7.5	DD - PLENUM FAN	460 / 3 / 60	10,300	500	29°F	95 / 78	55.0 / 48.4	81.9 / 71.6	10,300	500	70°F	76 / 65	10,300	500	458,196	937,269	96.0°	80.0°	55.0°	117	42.0°	58.0°	10,300	500	391,143	20.0°	55.0°	20	180.0°	140.0°
OAHU-E3-01	AHU-E3-01 & AHU-F3-01	HORIZONTAL DRAW-THRU	CARRIER	39MN	263" x 88" x 122"	8,800	1-15	10,200	10,200	10,200	0.8	6.1	2 @ 5 HP	10	DD - PLENUM FAN	460 / 3 / 60	9,060	1.8	3.8	2 @ 2 HP	5.0	DD - PLENUM FAN	460 / 3 / 60	10,200	500	29°F	95 / 78	53.3 / 47.4	82.7 / 71.9	9,060	500	70°F	76 / 65	10,200	500	453,747	928,169	96.0°	80.0°	55.0°	116	42.0°	58.0°	10,200	500	387,345	20.0°	55.0°	19	180.0°	140.0°
OAHU-B1-02	AHU-B1-03	VERTICAL DRAW-THRU	CARRIER	39MN	222" x 56" x 80"	4,300	1-15	2,810	2,810	843	0.8	1.8	1 / 2 HP	2	DD - PLENUM FAN	460 / 3 / 60	2,810	1.5	1.2	1 / 1.5 HP	1.5	DD - PLENUM FAN	460 / 3 / 60	2,810	500	29°F	95 / 78	55.8 / 49.7	81.4 / 71.0	2,810	500	70°F	76 / 65	2,810	500	125,003	255,702	96.0°	80.0°	55.0°	32	42.0°	58.0°	2,810	500	106,710	20.0°	55.0°	5	180.0°	140.0°
OAHU-B1-03	AHU-B1-04	VERTICAL DRAW-THRU	CARRIER	39MN	222" x 56" x 80"	4,200	1-15	2,410	2,410	2,410	0.8	1.7	1 / 2 HP	2	DD - PLENUM FAN	460 / 3 / 60	2,410	1.8	1.2	1 / 1.5 HP	1.5	DD - PLENUM FAN	460 / 3 / 60	2,410	500	29°F	95 / 78	56.7 / 50.4	81.1 / 70.7	2,410	500	70°F	76 / 65	2,410	500	107,209	219,303	96.0°	80.0°	55.0°	27	42.0°	58.0°	2,410	500	91,520	20.0°	55.0°	5	180.0°	140.0°

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. AIR HANDLING UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. COOLING COILS PRESSURE DROP THROUGH COIL SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. PROVIDE VARIABLE FREQUENCY DRIVE FOR SUPPLY AND EXHAUST FANS.
6. FAN CONSTRUCTION SHALL BE MINIMUM AMCA CLASS 2.
7. PROVIDE FACTORY MOUNTED AND WIRED EXTERNAL JUNCTION BOXES ON FAN SECTION. J-BOX SHALL ALLOW ELECTRICAL CONTRACTOR TO LAND POWER TO DEVICE WITHOUT PENETRATING THROUGH CABINET. FIELD INSTALLED JUNCTION BOXES ARE NOT ACCEPTABLE.
8. PROVIDE FACTORY MOUNTED SHAFT GROUNDING KIT FOR AIR HANDLING UNIT MOTOR, NO EXCEPTIONS.
9. PROVIDE WITH ANGLED MERV 13 FILTERS.
10. UNITS WITH MULTIPLE FANS AND MOTORS, PROVIDE FACTORY INSTALLED AND WIRED MOTOR OVERLOAD PANEL FOR CONNECTION TO A SINGLE VFD.
11. ALL COILS SHALL BE FULLY DIPPED AND BAKED (E-COAT) WITH UV TOP COAT.
12. PROVIDE TWO-POSITION, LOW-LEAK ALUMINUM DAMPERS FOR THE OSA & EA OPENINGS.
13. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
14. PROVIDE WITH ENERGY RECOVERY CORE.
15. MANUFACTURER TO PROVIDE UVC LIGHT SECTION DOWNSTREAM OF COOLING COIL TO BE FIELD INSTALLED WITH STAINLESS STEEL DRAIN PAN. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.

FAN COIL UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	MANUFACTURER	MODEL NUMBER	DIMENSIONS (L x W x H)	WEIGHT (lbs)	SEE NOTE	BLOWER DATA						COOLING COIL DATA										HEATING COIL DATA							ELECTRICAL DATA			
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MOTOR H.P.	DRIVE	FAN TYPE	CFM OVER...	MAX. FACE...	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT...	LWT (°F DB)	CFM OVER COIL	MAX. FACE...	GRAND TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT...	LWT (°F DB)	FLA	MCA	MOCP	VOLT...
FCU-H1-01	CTE BOILER ROOM	SZ CV	HORIZONTAL, SUSPENDED	CARRIER	42DH	37.5" x 37" x 21.5"	250	1-9	1,200	0	0.6	1.00	DIRECT	FC	1,200	500	29,808	38,849	78.0°	65.0°	55.0°	4.9	42.0°	58.0°	1,200	500	22,032	68.0°	85.0°	1.1	180.0°	140.0°	1.8	2.19	15	460 / 3...

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. FAN COIL UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.50" W.G. FOR DIRTY FILTER.
4. COOLING COILS SHALL HAVE A MINIMUM OF 6 ROWS AND A MAXIMUM OF 10 FINS PER INCH. PRESSURE DROP SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. FAN COIL UNIT SUSPENDED FROM STRUCTURE.
6. PROVIDE FLOAT SWITCH IN AUXILIARY DRAIN PAN.
7. PROVIDE MERV 13 FILTERS.
8. PROVIDE FACTORY MOUNTED STARTER AND DISCONNECT.
9. PROVIDE HOT WATER COIL IN RE-HEAT POSITION.

PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

DESIGNATION	SERVICE	TYPE	MANUFACTURER	MODEL NUMBER	SEE NOTE	DIMENSIONS (L"xW"xH")	ARI EER / IEER	UNIT WEIGHT (LBS)	INDOOR BLOWER DATA					COOLING COIL DATA							HOT GAS RE-HEAT DATA		GAS HEATING DATA							ELECTRICAL INFORMATION		
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	FAN QUANITY / HORSEPOWER (EACH)	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	CAPACITY BTUH	LAT (°F DB)	FUEL	INPUT BTUH (MAX.)	OUTPUT BTUH (MIN.)	MIN. STAGES OF HEAT / TURN DOWN	EAT (°F DB)	LAT (°F DB)	VOLTS / PH / HZ	MCA	MOCP
RTU-MP-01	MULTI-PURPOSE	SZ VAV	VALENT	VX	1-24	250"L x 98"W x 124"H	9.6 / 12.3	9,700	19,000	5,500	1.2"	4 / 5.0	DIRECT DRIVE - PF	19,000	500	565,500	864,400	83.2°	69.3°	54.0°	641,100	65.0°	NATURAL GAS	1,200,000	972,000	MODULATING / 20:1	52.0°	99.3°	460 / 3 / 60	199.0	225
RTU-MP-02	MULTI-PURPOSE	SZ VAV	VALENT	VX	1-24	250"L x 98"W x 124"H	9.6 / 12.3	9,700	19,000	5,500	1.2"	4 / 5.0	DIRECT DRIVE - PF	19,000	500	565,500	864,400	83.2°	69.3°	54.0°	641,100	65.0°	NATURAL GAS	1,200,000	972,000	MODULATING / 20:1	52.0°	99.3°	460 / 3 / 60	199.0	225
RTU-C1	AREA 'C' STAIRWELL	SZ VAV	TRANE	YHK	1-21,25	89" x 54" x 53"	12.9 / 17.1 SEER	1,100	1,400	-	0.8"	0.35 / 3.0	DIRECT DRIVE - PF	1,400	500	33,418	46,381	76.0°	65.0°	54.0°	34,480	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	17.0	20
RTU-E1	AREA 'E' STAIRWELL	SZ VAV	TRANE	YHK	1-21,25	89" x 54" x 53"	12.9 / 17.1 SEER	1,100	1,400	-	0.8"	0.35 / 3.0	DIRECT DRIVE - PF	1,400	500	33,418	46,381	76.0°	65.0°	54.0°	34,480	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	17.0	20
RTU-F1	AREA 'F' STAIRWELL	SZ VAV	TRANE	YHK	1-21,25	69" x 46" x 49"	12.9 / 17.1 SEER	900	1,050	-	0.8"	0.37 / 0.75	DIRECT DRIVE - PF	1,050	500	25,064	34,785	76.0°	65.0°	54.0°	26,010	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	12.0	15
RTU-B1	AREA 'B' STAIRWELL	SZ VAV	TRANE	YHK	1-21,25	69" x 46" x 49"	12.9 / 17.1 SEER	900	1,050	-	0.8"	0.37 / 0.75	DIRECT DRIVE - PF	1,050	500	25,064	34,785	76.0°	65.0°	54.0°	26,010	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	12.0	15
RTU-B2	AREA 'B' STAIRWELL	SZ VAV	TRANE	YHK	1-21,25	69" x 46" x 49"	12.9 / 17.1 SEER	900	1,050	-	0.8"	0.37 / 0.75	DIRECT DRIVE - PF	1,050	500	25,064	34,785	76.0°	65.0°	54.0°	26,010	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	12.0	15

1. REFERENCE DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. ROOF TOP UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. AMBIENT AIR TEMPERATURE SHALL BE 105°F.
5. PROVIDE UNIT WITH MODULATING HOT GAS RE-HEAT COIL FOR ACTIVE HUMIDITY CONTROL.
6. EVAPORATOR COIL SHALL BE AL/CU; CONDENSER COIL AND HOT-GAS RE-HEAT COIL SHALL BE BE MICROCHANNEL. ALL COILS SHALL BE FULLY DIPPED AND EPOXY COATED.
7. PROVIDE DUCT SMOKE DETECTOR AS REQUIRED BY CODE.
8. PROVIDE 120v/15 AMP, 2 PLUG, UNPOWERED CONVENIENCE OUTLET. ELECTRICAL TO PROVIDE SEPARATE POWER FEED TO THE OUTLET.
9. REFRIGERANT SHALL BE R-454B.
10. PROVIDE HAIL GUARDS.
11. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND FACTORY MOUNTED DISCONNECT SWITCH.
12. FACTORY PROVIDED AND INSTALLED ULTRA LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF DAMPERS.
13. PROVIDE WITH MERV 13 FILTERS.
14. PROVIDE DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH; WIRE TO SHUT-DOWN UNIT UPON WATER DETECTION IN PAN.
15. EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL MEET OR EXCEED THE SCHEDULED EFFICIENCY VALUES.
16. PROVIDE LOW AMBIENT CONTROL DOWN TO 0°F.
17. PROVIDE UNIT WITH INTEGRATED ECONOMIZER CYCLE CONTROL. MINIMUM COOLING STAGING REQUIREMENTS PER 2018 IECC TABLE C403.3.1: (≥65,00 BTUH AND <240,000 BTUH - 3 STAGES OF COOLING; ≥240,000 BTUH - 4 STAGES OF COOLING).
18. UNIT SHALL BE PROVIDED WITH TERMINAL STRIP FOR THIRD PARTY CONTROL; REFER TO 23 74 13, 2.11 & 2.12 CONTROLS AND 23 09 93 SEQUENCES OF OPERATIONS FOR FURTHER REQUIREMENTS.
19. ROOFTOP UNIT AND ROOF CURB SHALL BE COMPLETELY LEVEL AND ROOF CURB TO MATCH ROOF SLOPE.
20. PROVIDE FACTORY MOUNTED REFRIGERANT LEAK DETECTION SYSTEM.
21. MANUFACTURER TO PROVIDE UVC LIGHT DOWNSTREAM OF COOLING COIL. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.
22. PROVIDE AIRFLOW MEASURING STATION (AFMS) AT OUTSIDE AIR INTAKE OPENING. AFMS SHALL BE DESIGNED TO OPERATE WITHOUT PRE-FILTRATION AND BE SPECIFICALLY DESIGNED TO OPERATE IN TURBULENT AIRSTREAMS.
23. ROOFTOP UNIT SHALL HAVE A MINIMUM OF TWO REFRIGERANT CIRCUITS. THE LEAD CIRCUIT SHALL HAVE A VARIABLE SPEED COMPRESSOR WITH STAGED COMPRESSORS FOR LAG FOR ACCURATE SUPPLY AIR DRY BULB AND DEW POINT CONTROL.
24. PROVIDE INSULATED 48" TALL CUSTOM CURB WITH HORIZONTAL SUPPLY AND RETURN OPENINGS; REFER TO PLANS AND SPECIFICATION FOR FURTHER REQUIREMENTS. CURB SHALL BE FULLY WELDED & WIND RATED CURB WITH HOLD DOWN BRACKETS; STRUCTURALLY CALCULATED TO MEET THE WIND REQUIREMENTS OF THE 2018 IBC. RATED FOR 155 MPH, THREE SECOND GUST. MANUFACTURER TO PROVIDE SIGNED AND SEALED DRAWINGS BY PROFESSIONAL ENGINEER OF THE RATED ASSEMBLY. CURB SHALL BE PROVIDED BY THE MANUFACTURER AND NOT BY OTHERS.
25. PROVIDE 14" TALL INSULATED AND FULL PERIMETER FULLY WELDED WIND RATED CURB WITH HOLD DOWN BRACKETS; STRUCTURALLY CALCULATED TO MEET THE WIND REQUIREMENTS OF THE 2015 IBC. RATED FOR 155 MPH, THREE SECOND GUST. MANUFACTURER TO PROVIDE SIGNED AND SEALED DRAWINGS BY PROFESSIONAL ENGINEER OF THE RATED ASSEMBLY. CURB SHALL BE PROVIDED BY THE MANUFACTURER AND NOT BY OTHERS.

Plot Stamp:
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PBK
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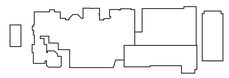
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

M-502

0"

1"

MECHANICAL SCHEDULES
M-503
FOR BLUEBEAM LABELING/DOCR:

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)			
CVB-C1-01-01	12	1,325	398	1	0.3	1325	750	29,908	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-02	12	1,175	353	1	0.3	1175	750	26,522	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-03	12	1,100	330	1	0.3	1100	750	24,829	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-04	12	1,130	339	1	0.3	1130	750	25,506	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-05	12	1,030	309	1	0.3	1030	750	23,249	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-06	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-07	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-08	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-02	12	1,015	305	1	0.3	1015	750	22,911	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-03	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-04	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-05	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-06	10	935	281	1	0.3	935	750	21,105	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-07	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-08	8	410	123	1	0.3	410	750	9,255	64.1	85	0.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-09	14	1,560	468	1	0.3	1560	750	35,212	64.1	85	1.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-10	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-01	12	1,175	353	1	0.3	1175	750	26,522	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-02	12	1,070	321	1	0.3	1070	750	24,152	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-03	8	420	126	1	0.3	420	750	9,480	64.1	85	0.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-04	14	1,430	429	1	0.3	1430	750	32,278	64.1	85	1.6	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-05	10	740	222	1	0.3	740	750	16,703	64.1	85	0.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-06	12	1,010	303	1	0.3	1010	750	22,798	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-07	12	1,070	321	1	0.3	1070	750	24,152	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-08	12	1,145	344	1	0.3	1145	750	25,845	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-09	12	1,325	398	1	0.3	1325	750	29,908	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-01	10	770	231	1	0.3	770	750	17,380	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-02A	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-02B	10	895	269	1	0.3	895	750	20,202	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-02C	10	895	269	1	0.3	895	750	20,202	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-03	10	900	270	1	0.3	900	750	20,315	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-04	8	540	162	1	0.3	540	750	12,189	64.1	85	0.6	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-05	12	1,080	324	1	0.3	1080	750	24,378	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-06	14	1,560	468	1	0.3	1560	750	35,212	64.1	85	1.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. WATER PRESSURE DROP SHALL NOT EXCEED 5 FT AT SCHEDULED GPM AND AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" W.G.
5. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)			
CVB-C2-01-01	12	1,235	371	1	0.3	1235	750	27,876	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-02	12	1,175	353	1	0.3	1175	750	26,522	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-03	10	950	285	1	0.3	950	750	21,443	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-04	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-05	6	215	65	1	0.3	215	750	4,853	64.1	85	0.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-06	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-07	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-08	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-09	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-02	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-03	12	1,150	345	1	0.3	1150	750	25,958	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-04	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-05	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-06	10	875	263	1	0.3	875	750	19,751	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-07	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-08	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-09	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-01	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-02	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-03	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-04	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-05	6	225	68	1	0.3	225	750	5,079	64.1	85	0.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-06	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-07	10	970	291	1	0.3	970	750	21,895	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-08	12	1,195	359	1	0.3	1195	750	26,974	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-09	12	1,235	371	1	0.3	1235	750	27,876	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-01	12	1,135	341	1	0.3	1135	750	25,619	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-02	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-03	14	1,620	486	1	0.3	1620	750	36,567	64.1	85	1.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-04	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-05	12	1,230	369	1	0.3	1230	750	27,764	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-06	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-07	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-08	12	1,080	324	1	0.3	1080	750	24,378	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. WATER PRESSURE DROP SHALL NOT EXCEED 5 FT AT SCHEDULED GPM AND AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" W.G.
5. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)			
CVB-C3-01-01	12	1,125	338	1	0.3	1125	750	25,394	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-02	12	1,325	398	1	0.3	1325	750	29,908	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-03A	12	1,075	323	1	0.3	1075	750	24,265	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-03B	10	885	266	1	0.3	885	750	19,976	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-04A	10	995	299	1	0.3	995	750	22,459	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-04B	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-05A	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-05B	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-06A	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-06B	12	1,030	309	1	0.3	1030	750	23,249	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-01	12	1,235	371	1	0.3	1235	750	27,876	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-02A	12	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-02B	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-03	12	1,280	384	1	0.3	1280	750	28,892	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-04A	10	995	299	1	0.3	995	750	22,459	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-04B	12	1,295	389	1	0.3	1295	750	29,231	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-05	12	1,230	369	1	0.3	1230	750	27,764	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-06	12	1,080	324	1	0.3	1080	750	24,378	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-01	12	1,125	338	1	0.3	1125	750	25,394	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-02	12	1,345	404	1	0.3	1345	750	30,359	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-03A	12	1,105	332	1	0.3	1105	750	24,942	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-03B	10	915	275	1	0.3	915	750	20,653	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-04A	12	1,035	311	1	0.3	1035	750	23,362	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-04B	10	825	248	1	0.3	825	750	18,622	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-05A	10	825	248	1	0.3	825	750	18,622	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-05B	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-06A	10	825	248	1	0.3	825	750	18,622	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-06B	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-01	10	910	273	1	0.3	910	750	20,541	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-02	10	790	237	1	0.3	790	750	17,832	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-03A	12	1,125	338	1	0.3	1125	750	25,394	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-03B	12	1,275	383	1	0.3	1275	750	28,779	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-04	12	1,290	387	1	0.3	1290	750	29,118	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-05	12	1,260	378	1	0.3	1260	750	28,441	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-06	12	1,110	333	1	0.3	1110	750	25,055	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-07	12	1,070	321	1	0.3	1070	750	24,152	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. WATER PRESSURE DROP SHALL NOT EXCEED 5 FT AT SCHEDULED GPM AND AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" W.G.
5. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

DUCT SILENCERS SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	CFM	SIZE (INCHES) W x H	LENGTH (FEET)	MAX. ↓P (" W.G.)	MAX. FACE VELOCITY (FPM)
ST-01	RETURN	VIBRO-ACOUSTICS	RD	-	48"x24"	5'-0"	0.13	900
ST-02	RETURN	VIBRO-ACOUSTICS	RD	-	48"x48"	5'-0"	0.13	900
ST-03	RETURN	VIBRO-ACOUSTICS	RD	-	48"x48"	3'-0"	0.13	900
ST-04	RETURN	VIBRO-ACOUSTICS	RD	-	32"x20"	5'-0"	0.13	900
ST-05	RETURN	VIBRO-ACOUSTICS	RD	-	48"x18"	5'-0"	0.13	900
ST-06	RETURN	VIBRO-ACOUSTICS	RD	-	36"x36"	3'-0"	0.13	900

1. MAXIMUM FLAME SPREAD OF 25 AND MAXIMUM FUEL CONTRIBUTED AND SMOKE DEVELOPED RATING OF 50 PER NFPA 90A FOR SOUND TRAP MEDIA.
2. MEDIA SHALL MEET EROSION TEST METHOD DESCRIBED IN U.L. PUBLICATION 181.
3. CONTRACTOR SHALL PROVIDE TRANSITIONS TO DUCTWORK AS REQUIRED.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		NC LEVELS		VOLTAGE	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	RAD.	DISCH.			
VAV-C1-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-D1-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-E1-01-01	6	330	165	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-F1-01-01	8	360	180	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-C2-01-01	8	380	190	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-D2-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-E2-01-01	8	375	188	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-F2-01-01	8	420	210	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-C3-01-01	6	325	163	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-D3-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-E3-01-01	6	325	163	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-F3-01-01	8	470	235	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-B1-02-01	12	1000	500	1	0.35	13	13	120 / 1 / 60	TITUS	DESV

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 25 AT 1 IN. STATIC PRESSURE.
2. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
3. PROVIDE VOLUME CONTROL DAMPER, MULTI-POINT FLOW SENSOR, CONTROLLER ENCLOSURE, POWER TRANSFORMER. REFER TO AIR...
4. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)			
CVB-B1-02-01	10	740	222	1	0.3	740	750	16,703	64.1	85	0.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-02	12	1,060	318	1	0.3	1060	750	23,926	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-03	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-04	8	380	114	1	0.3	380	750	8,577	64.1	85	0.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-05	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-06	12	1,110	333	1	0.3	1110	750	25,055	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-07	10	890	267	1	0.3	890	750	20,089	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-08	8	625	188	1	0.3	625	750	14,108	64.1	85	0.7	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-09	10	900	270	1	0.3	900	750	20,315	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHAL

0"

1"

MECHANICAL SCHEDULES
M-504
FOR BLUEBEAM LABELING/DOCR:

DIFFUSERS, REGISTERS & GRILLES SCHEDULE

DESIGNATION	MODEL NUMBER	NOISE CRITERIA (NC)	DESCRIPTION
A	TITUS TDCA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 18"x18" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL STEEL CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
B	TITUS PAR	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 22"x22" NECK SIZE UNLESS NOTED OTHERWISE. NO OPPOSED BLADE DAMPER, ALL STEEL CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
C	TITUS 300FS	25	DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, NO OPPOSED BLADEDAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL ALUMINUM CONTSTRUCTION.
D	TITUS 350FL	25	3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, 35° FIXED DEFLECTION, NO OPPOSED BLADE DAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL ALUMINUM CONSTRUCTION.
E	TITUS TDC-AA	25	12x12 MODULE SIZE, LAY-IN BORDER TYPE, 10"X10" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
F	TITUS PAR-AA	25	12x12 MODULE SIZE, LAY-IN BORDER TYPE, 10"x10" NECK SIZE UNLESS NOTED OTHERWISE. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
G	TITUS FL-15	25	1.5" SLOT WIDTH, 1-SLOT, CONTINUOUS LINEAR FLOW BAR WITH FBPI PLENUM , BORDER TYPE 22.
H	TITUS FL-15-JT	25	1.5" SLOT WIDTH, 1-SLOT, CONTINUOUS LINEAR FLOW BAR WITH FBPI PLENUM AND PATTERN CONTROLLER, BORDER TYPE 22.
J	TITUS CT-480	25	6" WIDE SIDEWALL GRILLE, 60" LONG, ALUMINUM CONSTRUCTION, 1/8" BARS WITH 0° DEFLECTION, 1/4" BAR SPACING. PROVIDE FRAME AND BORDER TYPE 3 WITH CONCEALED FASTENING
K	TITUS 33RL	25	1/2" BLADE SPACING, 38° FIXED DEFLECTION, 16 GAUGE BORDER, 14 GAUGE BLADES, SUPPORT BARS 6 INCH ON CENTER, BLADES PARALLEL TO LONG DIMENSION. ALL STEEL CONTSTRUCTION.
L	TITUS TDC-AA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 18"x18" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
M	TITUS PAR-AA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 22"x22" NECK SIZE UNLESS NOTED OTHERWISE. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.

1. ALL DIFFUSER DESIGNATIONS MAY NOT BE USED ON PROJECT.
2. DIFFUSERS IN NATATORIUMS, SHOWER ROOMS, ADJACENT DRESSING ROOMS, DISHWASH ROOMS, AND THERAPY POOL ROOMS SHALL BE ALL ALUMINUM CONSTRUCTION.
3. PROVIDE ROTO-TWIST CABLE OPERATED DAMPERS AT IN GYP BOARD CEILINGS.

DUCTLESS MINI-SPLIT SYSTEM AIR-CONDITIONERS SCHEDULE: MPF BLDG

EVAPORATOR SECTION												
INDOOR EVAPORATOR DESIGNATION	FCU-IDF-1162	FCU-IDF-1138	FCU-IDF-1106	FCU-IDF-1129	FCU-IDF-2159	FCU-IDF-2137	FCU-IDF-2104	FCU-IDF-2125	FCU-IDF-3146	FCU-IDF-3131	FCU-IDF-3106	FCU-IDF-3123
SERVICE	1162-IDF	1138-IDF	1106-IDF	1129-IDF	2159-IDF	2137-IDF	2104-IDF	2125-IDF	3146-IDF	3131-IDF	3106-IDF	3123-IDF
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
AREA	MPF 1ST FLOOR AREA C IDF	MPF 1ST FLOOR AREA D IDF	MPF 1ST FLOOR AREA E IDF	MPF 1ST FLOOR AREA F IDF	MPF 2ND FLOOR AREA C IDF	MPF 2ND FLOOR AREA D IDF	MPF 2ND FLOOR AREA E IDF	MPF 2ND FLOOR AREA F IDF	MPF 3RD FLOOR AREA C IDF	MPF 3RD FLOOR AREA D IDF	MPF 3RD FLOOR AREA E IDF	MPF 3RD FLOOR AREA F IDF
MODEL NUMBER	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA
TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
WEIGHT (LBS.)	28	28	28	28	28	28	28	28	28	28	28	28
NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
FAN DATA												
SUPPLY CFM (HIGH / MEDIUM / LOW) SPEED	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265
COOLING / HEATING COIL	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX
NOMINAL TONNAGE	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS
ENTERING AIR EVAP (DB/WB) °F - COOLING MODE	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F
ENTERING AIR EVAP (DB/WB) °F - HEATING MODE	-	-	-	-	-	-	-	-	-	-	-	-
NOMINAL BTUH COOLING (BTUH)	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
NOMINAL BTUH HEATING (BTUH)	-	-	-	-	-	-	-	-	-	-	-	-
AIR-COOLED CONDENSER												
DESIGNATION	ACCU-IDF-1162	ACCU-IDF-1138	ACCU-IDF-1106	ACCU-IDF-1129A	ACCU-IDF-2159	ACCU-IDF-2137	ACCU-IDF-2104	ACCU-IDF-2104	ACCU-IDF-3146	ACCU-IDF-3131	ACCU-IDF-3106	ACCU-IDF-3123
SERVES	FCU-IDF-1162	FCU-IDF-1138	FCU-IDF-1106	FCU-IDF-1129	FCU-IDF-2159	FCU-IDF-2137	FCU-IDF-2104	FCU-IDF-2125	FCU-IDF-3146	FCU-IDF-3131	FCU-IDF-3106	FCU-IDF-3123
LOCATION	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NUMBER	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY
EFFICIENCY (SEER)	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
VOLTS/PH/HZ	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60
MCA	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
MOCP	28	28	28	28	28	28	28	28	28	28	28	28
AMBIENT TEMPERATURE °F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F
WEIGHT (LBS.)	99	99	99	99	99	99	99	99	99	99	99	99

NOTES

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH PLENUM, AIR DEVICES, ETC.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE REMOTE WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH BACnet INTERFACE.
5. PROVIDE INVERTER DRIVEN COMPRESSOR.
6. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT. INTERCONNECTING POWER WIRING FROM OUTDOOR TO INDOOR UNIT IS BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.
7. PROVIDE MATCHING CONDENSING UNIT FROM SAME MANUFACTURER.
8. MANUFACTURER SHALL PROVIDE A CONDENSATE PUMP. PUMP SHALL BE POWERED BY THE UNIT AND SHALL NOT START / STOP UNLESS THE UNIT IS ENERGIZED / DE-ENERGIZED.

HVAC GRAVITY VENTILATORS SCHEDULE

DESIGNATION	SERVICE	MANUFACTURER	MODEL	CFM	MAX. THROAT AREA (FT.²)/ THROAT SIZE (DIA./WXL)	P.D. (INCHES WG)	WEIGHT (LBS)	NOTES
IH-C1	OAHU-C2-01, OAHU-C1-01	COOK	GI	13,500	20.2 / 44" x 66"	0.10	450	1,2,5
IH-C2	OAHU-C3-01	COOK	GI	10,300	17.5 / 42" x 60"	0.08	400	1-3
IH-E1	OAHU-E2-01, OAHU-E1-01	COOK	GI	11,850	19.25 / 42" x 66"	0.09	400	1-3
IH-E2	OAHU-E3-01	COOK	GI	10,200	17.5 / 42" x 60"	0.08	400	1-3
IH-F1	OAHU-F2-01	COOK	GI	1,700	3 / 18" x 24"	0.08	100	1-3
IH-A1	OAHU-A2-01	COOK	GI	6,400	11.11 / 40" x 40"	0.08	200	1-3
IH-B1	OAHU-B1-01	COOK	GI	2,500	5 / 24" x 30"	0.08	200	1-3
IH-B2	OAHU-B3-01	COOK	GI	2,900	5 / 24" x 30"	0.06	200	1-3
RH-C1	OAHU-C3-01 EXHAUST	COOK	GR	10,300	17.5 / 42" x 60"	0.08	400	1-3
RH-E1	OAHU-E3-01 EXHAUST	COOK	GR	9,060	15.2 / 42" x 52"	0.09	300	1-3
RH-C2	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"	-	150	1, 2, 4
RH-E2	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"	-	150	1, 2, 4
RH-F1	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"		150	1, 2, 4
RH-MP-01	BUILDING RELIEF	COOK	GR	-	9 / 36" x 36"	-	200	1, 2, 4
RH-MP-02	BUILDING RELIEF	COOK	GR	-	9 / 36" x 36"	-	200	1, 2, 4
RH-A1	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"	-	150	1, 2, 4
RH-B1	BUILDING RELIEF	COOK	GR	-	9 / 36" x 36"	-	200	1, 2, 4

1. PROVIDE ROOF HOOD DESIGNED TO WITHSTAND HIGH WIND SPEEDS UP TO 155 MPH.
2. PROVIDE STAINLESS STEEL BIRD SCREEN AND 12" PREFABRICATED ROOF CURB.
3. MAXIMUM THROAT VELOCITY SHALL NOT EXCEED 600 FPM
4. PROVIDE WITH GRAVITY WEIGHTED DAMPER SET TO OPEN AT 0.10" W.G.
5. MAXIMUM THROAT VELOCITY SHALL NOT EXCEED 700 FPM

HVAC FANS SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUFACTURER	MODEL NUMBER	NOTES	WEIGHTS (LBS)	FAN DATA						
							TYPE	DRIVE	CFM	STATIC PRESSURE (" W.G.)	MOTOR HP. (MIN.)	RPM (MAX.)	VOLT / Ø / HZ
EF-C1-01	ROOF	1ST AND 2ND FLOOR RR EXHAUST AREA C	COOK	ACRUD	1-7	89	CENTRIFUGAL	DIRECT	2,000	1.00	3/4	1,800	120 / 1 / 60
EF-E1-01	ROOF	1ST AND 2ND FLOOR RR EXHAUST AREA E	COOK	ACRUD	1-7	108	CENTRIFUGAL	DIRECT	2,300	1.20	1	1,800	120 / 1 / 60
EF-F1-01	ROOF	1ST AND 2ND FLOOR RR EXHAUST AREA F	COOK	ACRUD	1-7	65	CENTRIFUGAL	DIRECT	370	1.00	1/2	1,800	120 / 1 / 60
EF-C3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-C3-02	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-C3-03	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-C3-04	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-C3-05	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-C3-06	ROOF	CHEMICAL STORAGE ROOM	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	130	0.30	1/20	1,800	120 / 1 / 60
EF-D3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-D3-02	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.40	1/20	1,800	120 / 1 / 60
EF-D3-03	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-D3-04	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-E3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-E3-02	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-E3-03	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-E3-04	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-F3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-F3-02	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	400	0.30	1/8	1,800	120 / 1 / 60
EF-F3-03	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-A1-01	ROOF	ATHLETICS LOBBY RR	COOK	ACRUD	1-7	54	CENTRIFUGAL	DIRECT	700	0.80	1/4	1,800	120 / 1 / 60
EF-A1-02	ROOF	ATHLETICS LOBBY RR	COOK	ACRUD	1-7	54	CENTRIFUGAL	DIRECT	700	0.80	1/4	1,800	120 / 1 / 60
EF-B1-01	PLENUM	1ST FLOOR ATHL	COOK	SQN	1-4	53	CENTRIFUGAL	DIRECT	900	0.40	1/4	1,800	120 / 1 / 60
EF-B2-01	ROOF	2ND FLOOR ATHLETICS RRs	COOK	ACRUD	1-7	52	CENTRIFUGAL	DIRECT	820	0.80	1/4	1,800	120 / 1 / 60
EF-H1-01	CTE BOILER RM	CTE BOILER ROOM CO PURGE	COOK	SQN	1-4	120	CENTRIFUGAL	DIRECT	2,200	1.00	1	1,800	120 / 1 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. REFERENCE SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
3. FAN SHALL BE PROVIDED WITH VARI-FLOW® CONTROL AND ECM MOTOR. STARTER SHALL BE PROVIDED BY FAN MANUFACTURER. JUNCTION BOX AND VARI-FLOW TRANSFORMER SHALL BE FACTORY MOUNTED AND WIRED.
4. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH IN NEMA-3R ENCLOSURE.
5. PROVIDE UPBLAST FAN DESIGNED TO WITHSTAND HIGH WIND SPEEDS UP TO 155 MPH.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF CURB DETAIL.
7. PROVIDE EPOXY COATING FOR FAN AND ALL ASSOCIATED ACCESSORIES.

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0808
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN ≈ TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT
GALENA PARK ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP

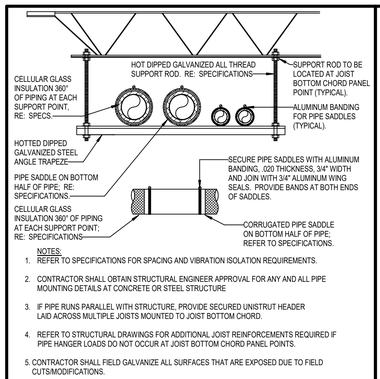
DRAWN BY: CT

MECHANICAL SCHEDULES

M-504

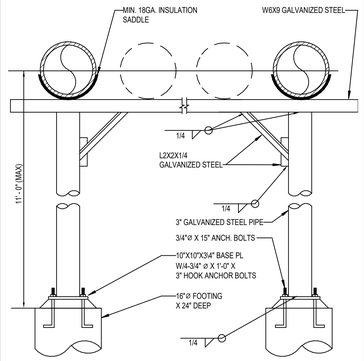
Plot Stamp:
12/3/2025 6:04:10 PM

MECHANICAL DETAILS
M-601
FOR BLUEBEAM LABELING/DOCR:

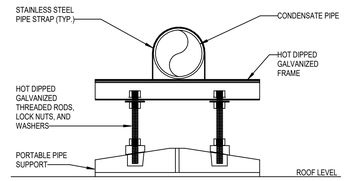


NOTES:
1. REFER TO SPECIFICATIONS FOR SPACING AND VIBRATION ISOLATION REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS AT CONCRETE OR STEEL STRUCTURE
3. IF PIPE RUNS PARALLEL WITH STRUCTURE, PROVIDE SECURED UNISTRUT HEADER LAID ACROSS MULTIPLE JOISTS MOUNTED TO JOIST BOTTOM CHORD.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL JOIST REINFORCEMENTS REQUIRED IF PIPE HANGER LOADS DO NOT OCCUR AT JOIST BOTTOM CHORD PANEL POINTS.
5. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/MODIFICATIONS.

PIPE HANGER TRAPEZE DETAIL — NOT TO SCALE — 13

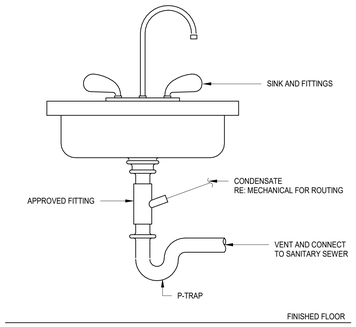


DOUBLE PIPE STANCHION PIPE SUPPORT DETAIL — NOT TO SCALE — 12

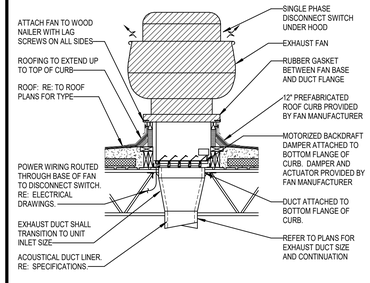


NOTES:
1. PORTABLE PIPE SUPPORTS SHALL BE MANUFACTURED BY ADVANCED SUPPORT PRODUCT, INC., MODEL SS1000A/SS2000-CB-ADJ (AS APPLICABLE) OR PRIOR APPROVED EQUAL.
2. ALL METALS MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

CONDENSATE PIPE SUPPORT DETAIL — NOT TO SCALE — 11

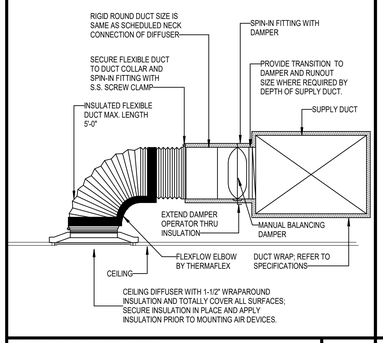


CONDENSATE TO SINK TAILPIECE DETAIL — NOT TO SCALE — 10

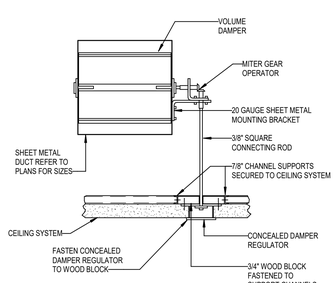


NOTES:
1. FOR THREE PHASE FANS, REFER TO THREE PHASE DISCONNECT SWITCH DETAIL
2. PROVIDE DUCT LINER IN THE FIRST 10 FEET OF DUCT FROM FAN.
3. ATTACH ROOF MOUNTED EQUIPMENT TO ROOF CURB AS REQUIRED TO RESIST UPLIFT DUE TO WINDS UP TO 120 M.P.H. SPEED.

UPBLAST ROOF MOUNTED EXHAUST FAN DETAIL — NOT TO SCALE — 9

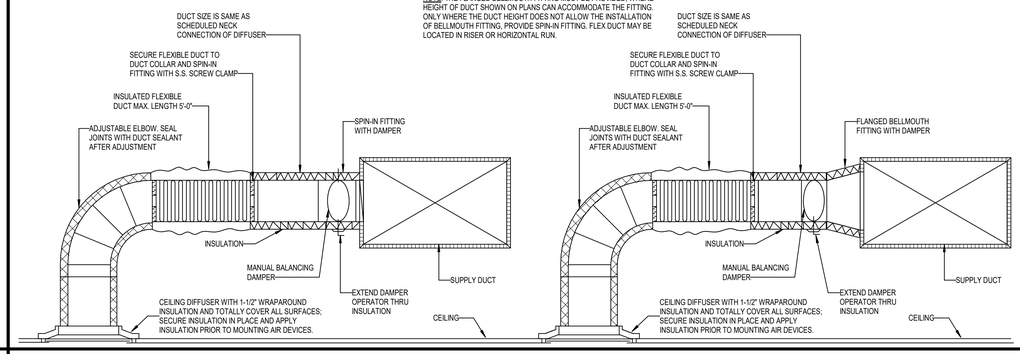


CEILING DIFFUSER CONNECTION DETAIL — NOT TO SCALE — 8

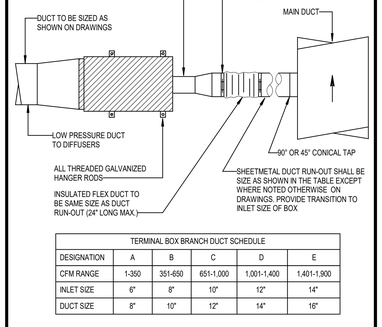


DAMPER OPERATOR IN NON - ACCESSIBLE CEILINGS DETAIL — NOT TO SCALE — 7

NOTE: THE FLANGED BELLMOUTH FITTING MUST BE PROVIDED, WHERE HEIGHT OF DUCT SHOWN ON PLANS CAN ACCOMMODATE THE FITTING. ONLY WHERE THE DUCT HEIGHT DOES NOT ALLOW THE INSTALLATION OF BELLMOUTH FITTING, PROVIDE SPIN-IN FITTING. FLEX DUCT MAY BE LOCATED IN RISER OR HORIZONTAL RUN.

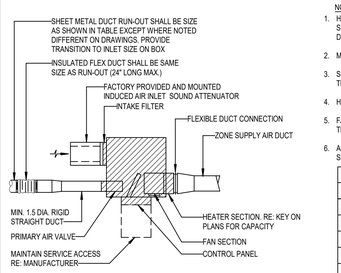


CEILING DIFFUSER CONNECTION WITH SPIN-IN / BELLMOUTH FITTINGS DETAIL — NOT TO SCALE — 6



TERMINAL BOX BRANCH DUCT SCHEDULE					
DESIGNATION	A	B	C	D	E
CFM RANGE	1-350	351-650	651-1,000	1,001-1,400	1,401-1,900
INLET SIZE	6"	8"	10"	12"	14"
DUCT SIZE	8"	10"	12"	14"	16"

SINGLE DUCT AIR TERMINAL UNIT DETAIL — NOT TO SCALE — 5

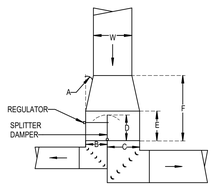


NOTE:
1. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. ENTERING WATER TEMPERATURE SHALL BE 180° AND WATER PRESSURE DROP SHALL NOT EXCEED 5 FT. W.G. AT SCHEDULED GPM. THE AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" WG. THE MAXIMUM FACE VELOCITY SHALL BE 750 FPM.
2. MAXIMUM VELOCITY AT BOX INLET SHALL NOT EXCEED 2000 FPM.
3. SIZE ALL FAN MOTORS TO OVERCOME 0.35" EXTERNAL STATIC PRESSURE. MINIMUM MOTOR SIZES SHALL BE AS NOTED IN THE TABLE.
4. HEATING COIL NOT REQUIRED IF CAPACITY IS NOT LISTED IN KEY.
5. FAN ASSEMBLY: ECM VARIABLE SPEED MOTOR, 277V/1PH/60HZ. COORDINATE WITH ELECTRICAL PLANS. REFER TO AIR TERMINAL SPECS FOR FURTHER REQUIREMENTS.
6. ANY DEVIATIONS OF ELECTRICAL CHARACTERISTICS LISTED ON CHART BELOW RESULTING IN POWER DESIGN CHANGES SHALL BE RESPONSIBILITY OF CONTRACTOR.

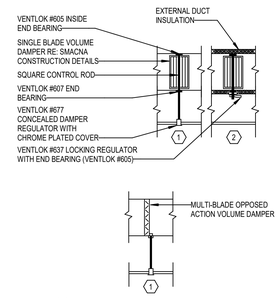
TERMINAL BOX SCHEDULE - BASED ON TITUS DTFS-F						
DESIGNATION	A	B	C	D	E	G
CFM RANGE	1-350	351-650	651-1,000	1,000-1,400	1,401-2,000	2,001-2,600
INLET SIZE	6"	8"	10"	12"	14"	16"
DUCT SIZE	8"	10"	12"	14"	16"	18"
HP (MAX)	1/3	1/3	1/3	1/2	3/4	(2) @ 3/4
MOTOR AMPS (MAX)	0.76	1.4	1.9	3.3	4.9	11.8

SERIES FAN - POWERED AIR TERMINAL UNIT WITH HOT WATER HEAT DETAIL — NOT TO SCALE — 4

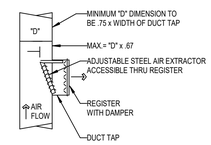
SPLITTER



DIMENSIONS
1. ANGLE 'A' TO BE 15° OR LESS (BOTH SIDES)
2. SEE FLOOR PLANS FOR B, C, & W.
3. SPLITTER DAMPER LENGTH D = 1.5 x B
4. E = D + 3" MINIMUM
5. VERTICAL DIMENSION TO BE MAINTAINED THRU F.
6. CHANGE IN VERTICAL DIMENSION TO OCCUR AFTER TURNS.

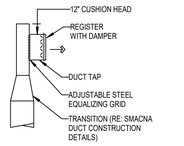


AIR EXTRACTOR AT SIDEWALL REGISTER

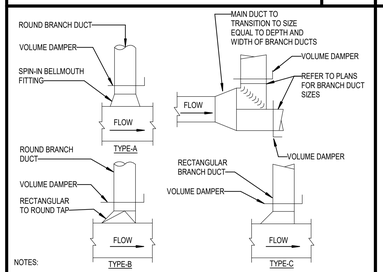


1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN. = 4")

SIDEWALL REGISTER AT END OF DUCT

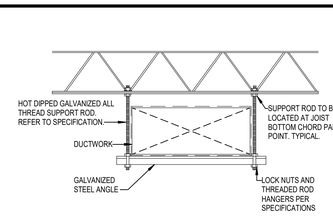


DUCT CONSTRUCTION DETAIL — NOT TO SCALE — 1



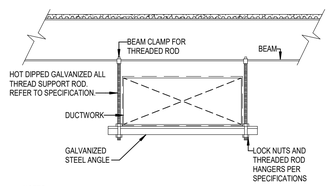
NOTES:
1. USE TYPE "A" CONNECTION ONLY FOR BRANCHES TO SINGLE DIFFUSERS, TERMINAL BOXES OR GRILLES FROM THE MAIN.
2. USE TYPE "B" OR "C" BRANCH WHERE BRANCH FLOW IS 20% OR LESS OF MAIN.
3. NO DAMPERS ARE REQ'D ON VAV SYSTEMS BETWEEN AIR HANDLING UNIT AND VAV TERMINAL BOXES.
4. USE TEE SPLIT WHERE BRANCH FLOW IS MORE THAN 20% OF MAIN.
5. FOR TYPE "A" CONNECTION TO DIFFUSERS, THE ROUND DUCT RUN-OUT SIZE SHALL BE THE SAME SIZE AS THE NECK OF DIFFUSER, UNLESS OTHERWISE INDICATED.
4. PROVIDE VOLUME DAMPERS ON SUPPLY, OUTSIDE AIR, RETURN AND EXHAUST DUCT SYSTEMS AS SHOWN.

BRANCH DUCT DETAILS — NOT TO SCALE — 3



NOTES:
1. FOLLOW SMACNA GUIDELINES FOR SPACING REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL DUCTWORK MOUNTING DETAILS AT CONCRETE.
3. CONTRACTOR SHALL INSTALL DUCT HANGER ROD WITHIN 3" AT JOIST BOTTOM CHORD PANEL POINT. IF HANGER ROD DOES NOT OCCUR WITHIN 3" AT BOTTOM CHORD PANEL POINT THAN LOAD SHALL NOT EXCEED 100# CONCENTRATED LOAD AT EACH THREADED ROD HANGER LOCATION.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL JOIST REINFORCEMENTS REQUIREMENTS IF DUCT HANGER RODS ARE MORE THAN 3" FROM JOIST BOTTOM CHORD PANEL POINT AND EXCEED 100# CONCENTRATED LOAD.
5. IF DUCT RUNS PARALLEL WITH STRUCTURE, PROVIDE SECURED UNISTRUT HEADER LAID ACROSS MULTIPLE JOISTS MOUNTED TO JOIST BOTTOM CHORD.
6. BEAM CLAMPS AND FLANGE CLIPS ARE NOT ACCEPTABLE FOR JOISTS.

DUCT HANGER TRAPEZE DETAIL — NOT TO SCALE — 2



NOTES:
1. FOLLOW SMACNA GUIDELINES FOR SPACING REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL DUCTWORK MOUNTING DETAILS AT CONCRETE.

DUCT CONSTRUCTION DETAIL — NOT TO SCALE — 1

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-366-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

GALENA PARK ISD

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL DETAILS

M-601

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12/3/2025 6:04:12 PM

MECHANICAL DETAILS
M-602
FOR BLUEBEAM LABELING/DOR:

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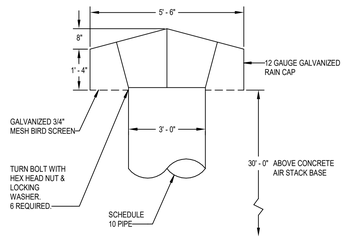
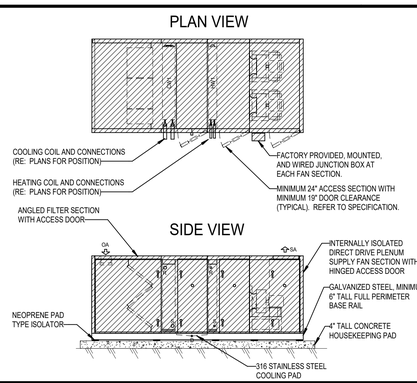
1"

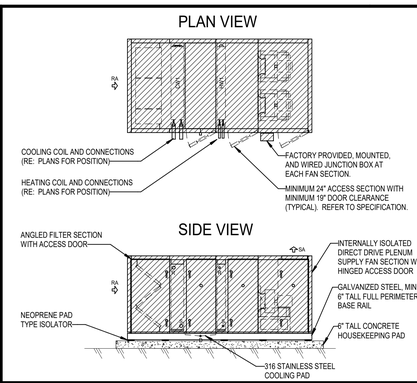


RAIN CAP DETAIL
NOT TO SCALE
15



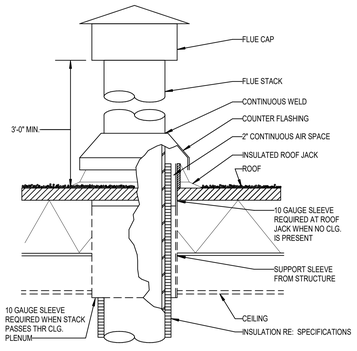
NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 13 MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNITS FOR FURTHER REQUIREMENTS.
2. REFER TO MODULAR INDOOR CENTRAL - STATION AIR HANDLING UNIT EQUIPMENT SCHEDULE FOR PERFORMANCE, COOLING/HEATING COIL ARRANGEMENT, AND DIMENSIONAL DATA.
3. PROVIDE INTERNAL FLEXIBLE CONNECTION BETWEEN FAN AND AIR UNIT CASING. FLEXIBLE CONNECTION BETWEEN AIR UNIT CASING AND CONNECTING DUCT SHALL NOT BE PROVIDED WHEN FAN IS INTERNALLY ISOLATED WITH FLEXIBLE CONNECTION TO CASING.
4. PROVIDE MOTOR SHAFT GROUNDING KIT FOR ALL AIR HANDLING UNIT MOTORS. KITS SHALL BE FACTORY PROVIDED AND INSTALLED PRIOR TO SHIPMENT.
5. FOR AIR HANDLING UNITS WITH MORE THAN ONE FAN AND TO ALLOW FOR A SINGLE CONNECTION TO A SINGLE VARIABLE FREQUENCY DRIVE, PROVIDE A FACTORY MOUNTED AND WIRED OVERLOAD PANEL.
6. CONTRACTOR SHALL PROVIDE TRAPPED CONDENSATE DRAIN LINE ROUTED TO NEAREST APPROVED FLOOR DRAIN AND MUST NOT POSE A TRIP HAZARD.
7. CONTRACTOR SHALL INSTALL PIPING WITH PIPING SPECIALTIES TO AIR HANDLING UNIT COILS IN A MANNER SUCH THAT ALL ACCESS DOORS SHALL BE ABLE TO FULLY SWING OPEN AND TO ALLOW SERVICE AND MAINTENANCE.
8. PROVIDE MINIMUM 24" ACCESS SECTION WITH MINIMUM 19" DOOR CLEARANCE. PROVIDE ACCESS SECTIONS BETWEEN PARALLEL COIL SECTIONS, UPSTREAM OF COIL SECTIONS, UPSTREAM AND DOWNSTREAM OF ENERGY RECOVERY WHEELS, IN FAN SECTIONS, FILTER SECTIONS AND MIXING BOXES. SECTIONS SHALL BE OF SAME CONSTRUCTION AS THE REST OF THE UNIT; DOUBLE WALL GALVANIZED STEEL CONSTRUCTION.

TYPICAL MODULAR INDOOR CENTRAL - STATION OUTSIDE AIR - HANDLING UNIT DETAIL
NOT TO SCALE
14

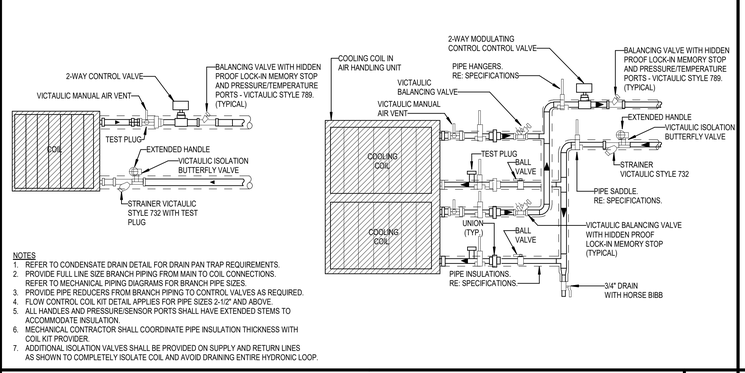


NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 13 MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNITS FOR FURTHER REQUIREMENTS.
2. REFER TO MODULAR INDOOR CENTRAL - STATION AIR HANDLING UNIT EQUIPMENT SCHEDULE FOR PERFORMANCE, COOLING/HEATING COIL ARRANGEMENT, AND DIMENSIONAL DATA.
3. PROVIDE INTERNAL FLEXIBLE CONNECTION BETWEEN FAN AND AIR UNIT CASING. FLEXIBLE CONNECTION BETWEEN AIR UNIT CASING AND CONNECTING DUCT SHALL NOT BE PROVIDED WHEN FAN IS INTERNALLY ISOLATED WITH FLEXIBLE CONNECTION TO CASING.
4. PROVIDE MOTOR SHAFT GROUNDING KIT FOR ALL AIR HANDLING UNIT MOTORS. KITS SHALL BE FACTORY PROVIDED AND INSTALLED PRIOR TO SHIPMENT.
5. FOR AIR HANDLING UNITS WITH MORE THAN ONE FAN AND TO ALLOW FOR A SINGLE CONNECTION TO A SINGLE VARIABLE FREQUENCY DRIVE, PROVIDE A FACTORY MOUNTED AND WIRED OVERLOAD PANEL.
6. CONTRACTOR SHALL PROVIDE TRAPPED CONDENSATE DRAIN LINE ROUTED TO NEAREST APPROVED FLOOR DRAIN AND MUST NOT POSE A TRIP HAZARD.
7. CONTRACTOR SHALL INSTALL PIPING WITH PIPING SPECIALTIES TO AIR HANDLING UNIT COILS IN A MANNER SUCH THAT ALL ACCESS DOORS SHALL BE ABLE TO FULLY SWING OPEN AND TO ALLOW SERVICE AND MAINTENANCE.
8. PROVIDE MINIMUM 24" ACCESS SECTION WITH MINIMUM 19" DOOR CLEARANCE; PROVIDE ACCESS SECTIONS BETWEEN PARALLEL COIL SECTIONS, UPSTREAM OF COIL SECTIONS, UPSTREAM AND DOWNSTREAM OF ENERGY RECOVERY WHEELS, IN FAN SECTIONS, FILTER SECTIONS AND MIXING BOXES. SECTIONS SHALL BE OF SAME CONSTRUCTION AS THE REST OF THE UNIT; DOUBLE WALL GALVANIZED STEEL CONSTRUCTION.

TYPICAL MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNIT DETAIL
NOT TO SCALE
13

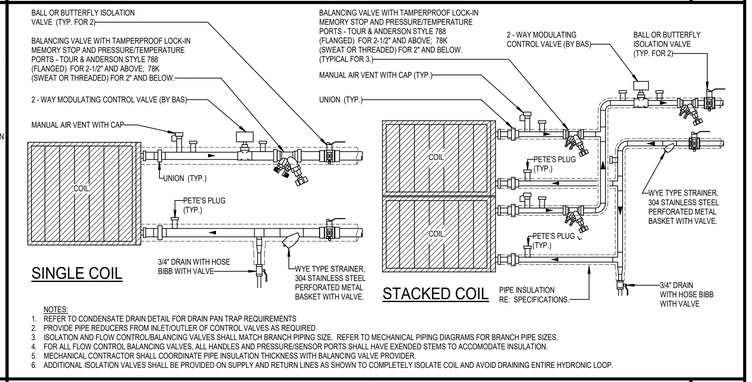


BOILER FLUE STACK DETAIL
NOT TO SCALE
12



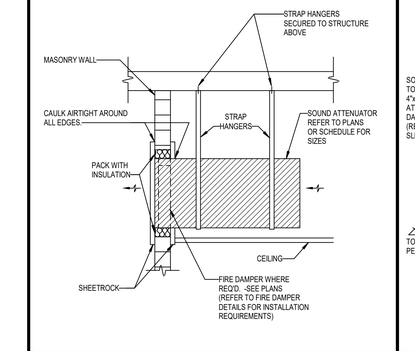
NOTES
1. REFER TO CONDENSATE DRAIN DETAIL FOR DRAIN PAN TRAP REQUIREMENTS.
2. PROVIDE FULL LINE SIZE BRANCH PIPING FROM MAIN TO COIL CONNECTIONS. REFER TO MECHANICAL PIPING DIAGRAMS FOR BRANCH PIPE SIZES.
3. PROVIDE PIPE REDUCERS FROM BRANCH PIPING TO CONTROL VALVES AS REQUIRED.
4. FLOW CONTROL COIL KIT DETAIL APPLIES FOR PIPE SIZES 2-1/2" AND ABOVE.
5. ALL HANDLES AND PRESSURE/SENSOR PORTS SHALL HAVE EXTENDED STEMS TO ACCOMMODATE INSULATION.
6. MECHANICAL CONTRACTOR SHALL COORDINATE PIPE INSULATION THICKNESS WITH COIL KIT PROVIDER.
7. ADDITIONAL ISOLATION VALVES SHALL BE PROVIDED ON SUPPLY AND RETURN LINES AS SHOWN TO COMPLETELY ISOLATE COIL AND AVOID DRAINING ENTIRE HYDRONIC LOOP.

AIR HANDLER SINGLE AND STACKED COIL WITH 2-WAY COIL KIT VALVE PIPING DETAIL (2-1/2" OR LARGER)
NOT TO SCALE
11

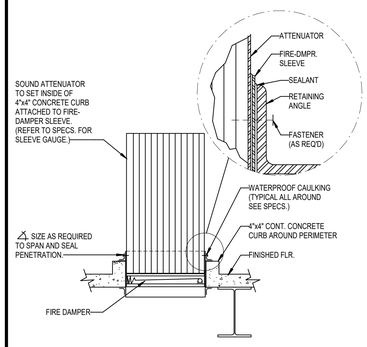


NOTES:
1. REFER TO CONDENSATE DRAIN DETAIL FOR DRAIN PAN TRAP REQUIREMENTS
2. PROVIDE PIPE REDUCERS FROM INLET/OUTLER OF CONTROL VALVES AS REQUIRED
3. ISOLATION AND FLOW CONTROL/BALANCING VALVES SHALL MATCH BRANCH PIPING SIZE. REFER TO MECHANICAL PIPING DIAGRAMS FOR BRANCH PIPE SIZES.
4. FOR ALL FLOW CONTROL BALANCING VALVES, ALL HANDLES AND PRESSURE/SENSOR PORTS SHALL HAVE EXENDED STEMS TO ACCOMODATE INSULATION.
5. MECHANICAL CONTRACTOR SHALL COORDINATE PIPE INSULATION THICKNESS WITH BALANCING VALVE PROVIDER.
6. ADDITIONAL ISOLATION VALVES SHALL BE PROVIDED ON SUPPLY AND RETURN LINES AS SHOWN TO COMPLETELY ISOLATE COIL AND AVOID DRAINING ENTIRE HYDRONIC LOOP.

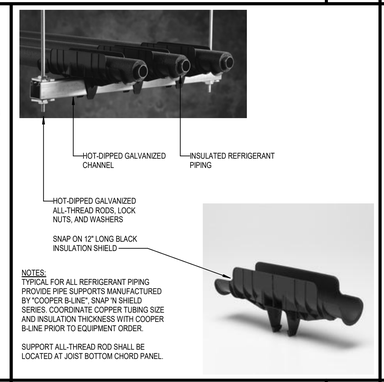
COIL PIPING ACCESSORIES WITH 2-WAY CONTROL VALVE CONNECTION (VICTAULIC BALANCING VALVE) DETAIL
NOT TO SCALE
10



SOUND ATTENUATOR THROUGH WALL DETAIL
NOT TO SCALE
9



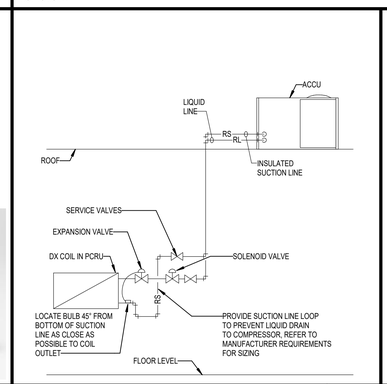
SOUND ATTENUATOR THROUGH FLOOR DETAIL
NOT TO SCALE
8



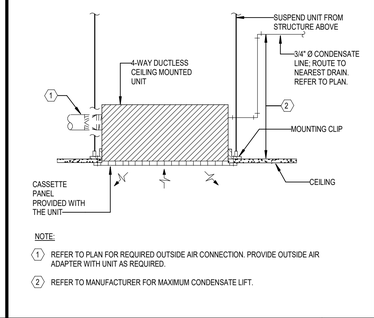
NOTES:
TYPICAL FOR ALL REFRIGERANT PIPING PROVIDE PIPE SUPPORTS MANUFACTURED BY "COOPER B-LINE", SNAP 'N SHIELD SERIES. COORDINATE COPPER TUBING SIZE AND INSULATION THICKNESS WITH COOPER B-LINE PRIOR TO EQUIPMENT ORDER.

SUPPORT ALL-THREAD ROD SHALL BE LOCATED AT JOIST BOTTOM CHORD PANEL.

SNAP 'N SHIELD REFRIGERANT PIPING SUPPORT DETAIL
NOT TO SCALE
7

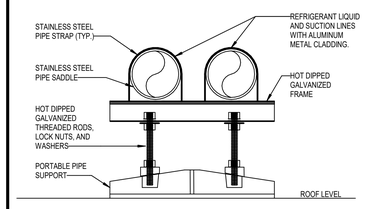


REFRIGERANT PIPING - ROOF ACCU DETAIL
NOT TO SCALE
6



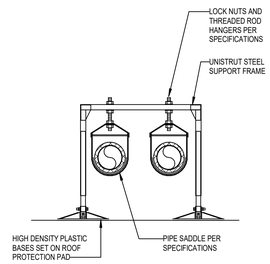
NOTE:
1. REFER TO PLAN FOR REQUIRED OUTSIDE AIR CONNECTION. PROVIDE OUTSIDE AIR ADAPTER WITH UNIT AS REQUIRED.
2. REFER TO MANUFACTURER FOR MAXIMUM CONDENSATE LIFT.

4-WAY CEILING CASSETTE FAN COIL UNIT DETAIL
NOT TO SCALE
5



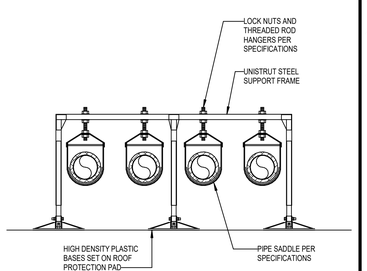
NOTE:
1. PORTABLE PIPE SUPPORTS SHALL BE MANUFACTURED BY ADVANCED SUPPORT PRODUCT, INC., MODEL SS1000A/SS2000-CB-ADJ (AS APPLICABLE) OR PRIOR APPROVAL EQUAL.
2. ALL METAL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

ROOF MOUNTED PORTABLE REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE
4



NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
2. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

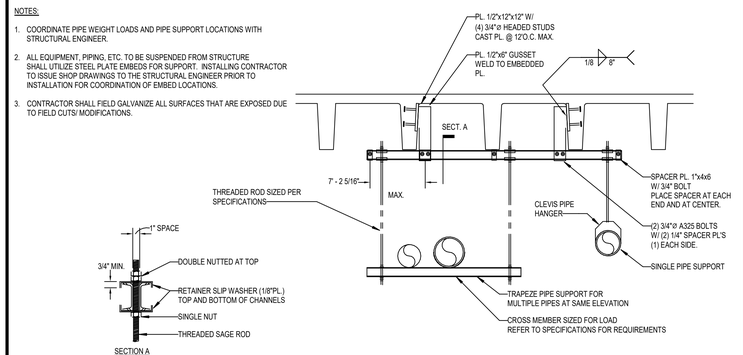
ROOF MOUNTED PORTABLE PIPE SUPPORT (2-PIPE CLEVIS HANGER)
NOT TO SCALE
3



NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
2. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

ROOF MOUNTED PORTABLE PIPE SUPPORT(4-PIPE CLEVIS HANGER)
NOT TO SCALE
2

NOTES:
1. COORDINATE PIPE WEIGHT LOADS AND PIPE SUPPORT LOCATIONS WITH STRUCTURAL ENGINEER.
2. ALL EQUIPMENT, PIPING, ETC. TO BE SUSPENDED FROM STRUCTURE SHALL UTILIZE STEEL PLATE EMBEDS FOR SUPPORT. INSTALLING CONTRACTOR TO ISSUE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION FOR COORDINATION OF EMBED LOCATIONS.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.



PIPE HANGER FROM CONCRETE PAN JOIST DETAIL
NOT TO SCALE
1

Plot Stamp:
12/3/2025 6:04:14 PM

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HOUSTON, TX
713-366-0608

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL DETAILS

M-602

MECHANICAL DETAILS
M-603
FOR BLUEBEAM LABELING/DOCR:

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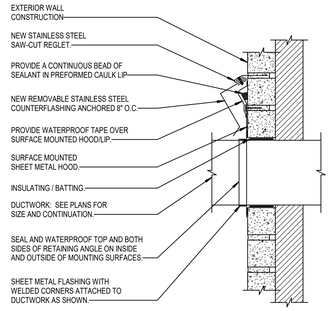
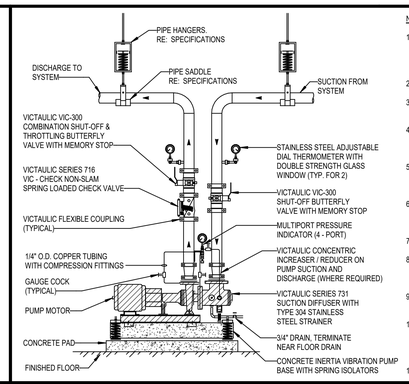
1"



DUCT THROUGH EXTERIOR WALL PENETRATION DETAIL
NOT TO SCALE

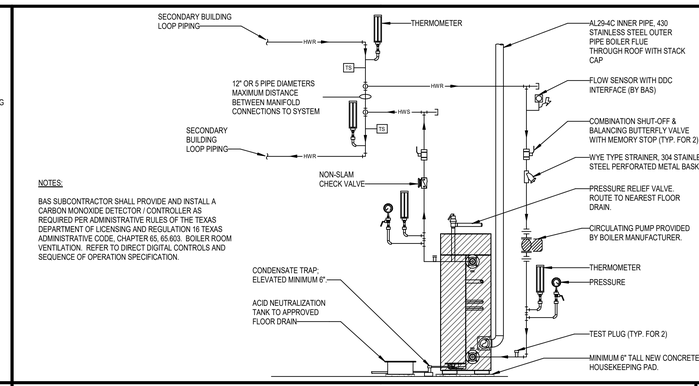
17



NOTES:
1. CHILLED WATER PUMPS SHALL BE INSULATED WITH RIGID INSULATION BOARD, TWO INCH THICK, CUT AND FORMED INTO A BOX AND SECURED IN PLACE WITH 3/4" WIDE x 0.20 GALVANIZED BANDS. REFER TO SPECIFICATION 23 07 16 FOR FURTHER PUMP INSULATION REQUIREMENTS.
2. BUTTERFLY AND CHECK VALVES SHALL BE LINE SIZE.
3. PROVIDE AND INSTALL MULTI-PORT (4 PORT) PRESSURE INDICATOR WITH 1/4" O.D. COPPER TUBING WITH COMPRESSION FITTINGS AND GAUGE COCKS.
4. PUMP SUCTION: PROVIDE THERMOMETER, VICTAULIC VIC-300 SHUT-OFF BUTTERFLY VALVE WITH MEMORY STOP AND VICTAULIC SERIES 713 SUCTION DIFFUSER WITH TYPE 304 STAINLESS STEEL STRAINER.
5. PUMP DISCHARGE: PROVIDED THERMOMETER, VICTAULIC VIC-300 COMBINATION SHUT-OFF / THROTTLING / BALANCING BUTTERFLY VALVE WITH MEMORY STOP AND VICTAULIC SERIES 716 VIC - CHECK, NON-SLAM SPRING LOADED CHECK VALVE.
6. BUTTERFLY VALVES SHALL BE PROVIDED WITH MEMORY STOP REGARDLESS OF SIZE. FOR BUTTERFLY VALVES LARGER THAN 6" PROVIDE HAND-WHEEL AND GEAR DRIVE WITH MEMORY STOP
7. VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO PERMIT REMOVAL OF BONNET.
8. PROVIDE TYPE RBMK FLOATING CONCRETE INERTIA VIBRATION ISOLATION BASE ON TOP OF 4" TALL CONCRETE HOUSEKEEPING PAD. APPLY GROUT TO PUMP BASE PLATE. REFER TO SPECIFICATION SECTION 23 05 48.
9. PROVIDE A MINIMUM OF (3) THREE VICTAULIC FLEXIBLE AGS COUPLINGS ON PUMP DISCHARGE AND PUMP SUCTION FOR REDUCTION OF THE TRANSMISSION OF VIBRATION.
10. THERMOMETERS SHALL BE STAINLESS STEEL, HERMETICALLY SEALED, BIMETALLIC, ADJUSTABLE ANGLE, DOUBLE STRENGTH GLASS WINDOW, BALANCED, BLACK FINISH POINTER, DIAL FACE OF ALUMINUM, WHITE BACKGROUND WITH BLACK AND BLUE GRADUATIONS AND MARKINGS.
11. PROVIDE FIELD FABRICATION ADJUSTABLE SUPPORT LEG FOR SUCTION DIFFUSER.

END - SUCTION (VICTAULIC PUMP STACK) PIPING DETAIL
NOT TO SCALE

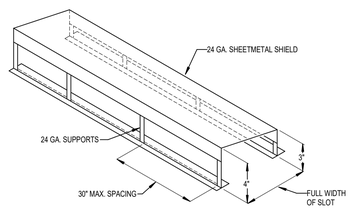
16



NOTES:
BAS SUBCONTRACTOR SHALL PROVIDE AND INSTALL A CARBON MONOXIDE DETECTOR / CONTROLLER AS REQUIRED PER ADMINISTRATIVE RULES OF THE TEXAS DEPARTMENT OF LICENSING AND REGULATION 16 TEXAS ADMINISTRATIVE CODE, CHAPTER 65, 65.603. BOILER ROOM VENTILATION. REFER TO DIRECT DIGITAL CONTROLS AND SEQUENCE OF OPERATION SPECIFICATION.

CONDENSING BOILER PIPING DETAIL
NOT TO SCALE

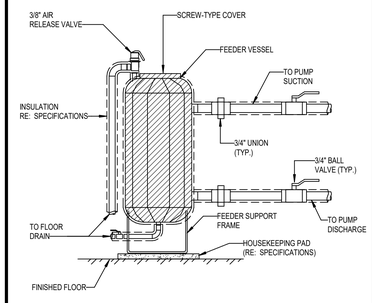
15



PROVIDE RETURN AIR SHIELD OVER ARCHITECTURAL SLOT AND PAINT EXPOSED SURFACES FLAT BLACK.

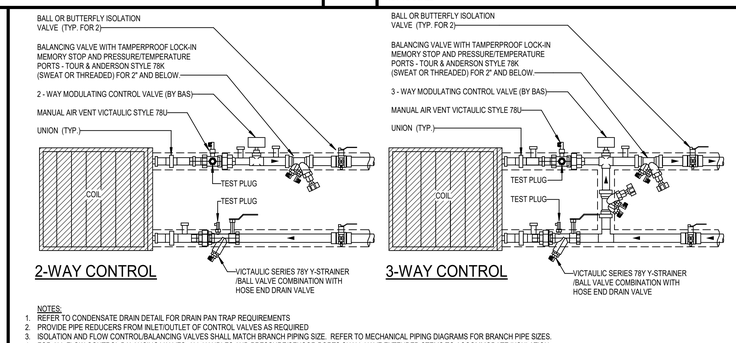
RETURN AIR LIGHT SHIELD DETAIL
NOT TO SCALE

14



CHEMICAL SHOT FEEDER PIPING DETAIL
NOT TO SCALE

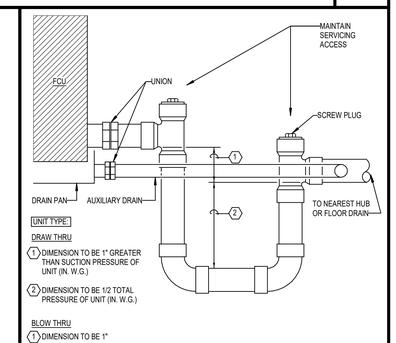
13



NOTES:
1. REFER TO CONDENSATE DRAIN DETAIL FOR DRAIN PAN TRAP REQUIREMENTS
2. PROVIDE PIPE REDUCERS FROM INLET/OUTLET OF CONTROL VALVES AS REQUIRED
3. ISOLATION AND FLOW CONTROL/BALANCING VALVES SHALL MATCH BRANCH PIPING SIZE. REFER TO MECHANICAL PIPING DIAGRAMS FOR BRANCH PIPE SIZES.
4. FOR ALL FLOW CONTROL BALANCING VALVES, ALL HANDLES AND PRESSURE/SENSOR PORTS SHALL HAVE EXTENDED STEMS TO ACCOMMODATE INSULATION.
5. MECHANICAL CONTRACTOR SHALL COORDINATE PIPE INSULATION THICKNESS WITH BALANCING VALVE PROVIDER.
6. ADDITIONAL ISOLATION VALVES SHALL BE PROVIDED ON SUPPLY AND RETURN LINES AS SHOWN TO COMPLETELY ISOLATE COIL AND AVOID DRAINING ENTIRE HYDRONIC LOOP.
7. REFER TO VICTAULIC INSTALLATION MANUAL FOR INSTALLATION INSTRUCTIONS.

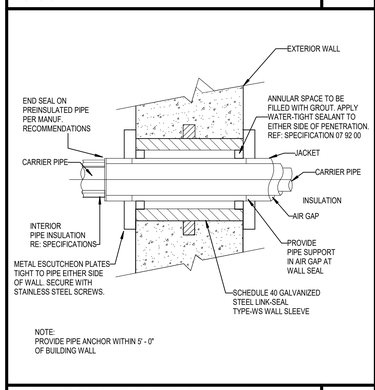
VICTAULIC COIL-KIT PIPING ACCESSORIES WITH 2-WAY OR 3-WAY CONTROL VALVE CONNECTION DETAIL (FOR PIPING 2" AND BELOW)
NOT TO SCALE

12



FAN COIL CONDENSATE DRAIN DETAIL
NOT TO SCALE

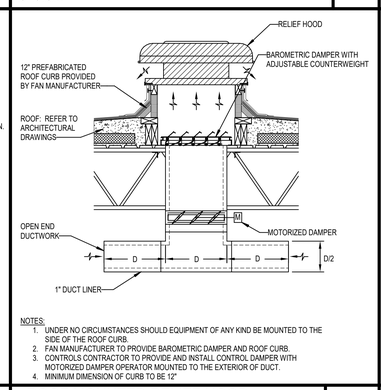
11



NOTE:
PROVIDE PIPE ANCHOR WITHIN 5' - 0" OF BUILDING WALL

ABOVE GRADE EXTERIOR WALL PIPE PENETRATION DETAIL
NOT TO SCALE

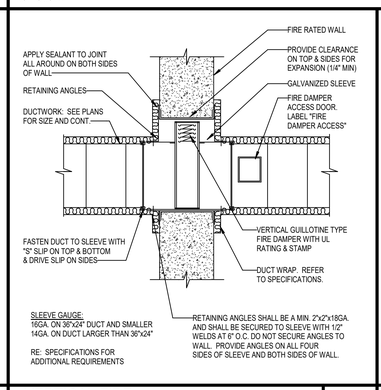
10



NOTES:
1. UNDER NO CIRCUMSTANCES SHOULD EQUIPMENT OF ANY KIND BE MOUNTED TO THE SIDE OF THE ROOF CURB.
2. FAN MANUFACTURER TO PROVIDE BAROMETRIC DAMPER AND ROOF CURB.
3. CONTROLS CONTRACTOR TO PROVIDE AND INSTALL CONTROL DAMPER WITH MOTORIZED DAMPER OPERATOR MOUNTED TO THE EXTERIOR OF DUCT.
4. MINIMUM DIMENSION OF CURB TO BE 12"

ROOF MOUNTED RELIEF HOOD DETAIL
NOT TO SCALE

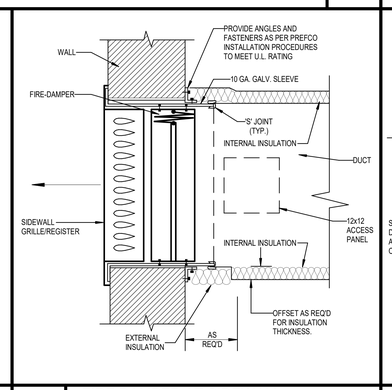
9



VERTICAL FIRE DAMPER DETAIL
NOT TO SCALE

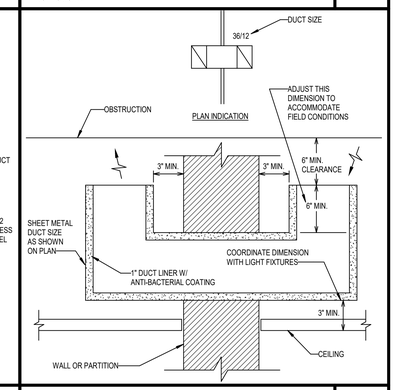
8

M



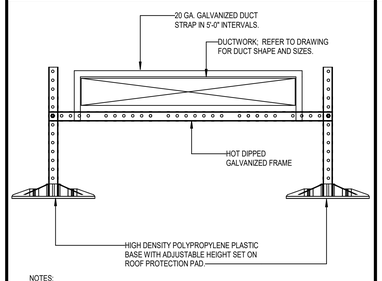
FIRE DAMPER AT SIDEWALL GRILLE DETAIL
NOT TO SCALE

7



TRANSFER DUCT DETAIL
NOT TO SCALE

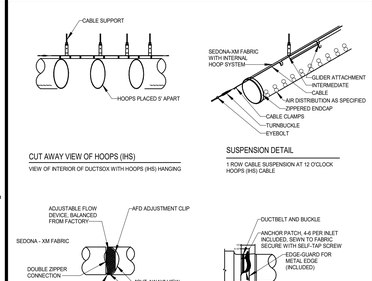
6



NOTES:
1. SPACE DUCT SUPPORTS AT MAXIMUM INTERVALS OF 5'-0" ON CENTER. ALL METAL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
2. REFER TO SPECIFICATION SECTION 23 05 29; 2.11 PORTABLE DUCT SUPPORTS.
3. SERVICE PLATFORM SHALL WITHSTAND 140 MPH WIND SPEED.
4. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

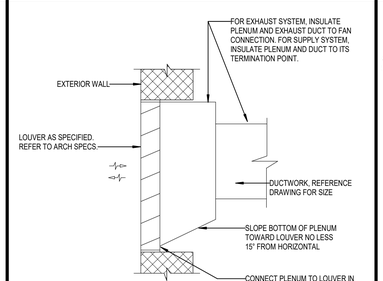
PORTABLE DUCT SUPPORT DETAIL
NOT TO SCALE

5



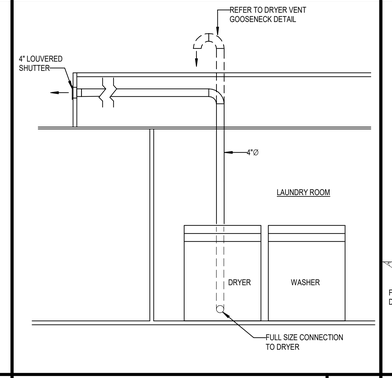
INTERNAL HOOP SYSTEM FABRIC DUCT DETAIL
NOT TO SCALE

4



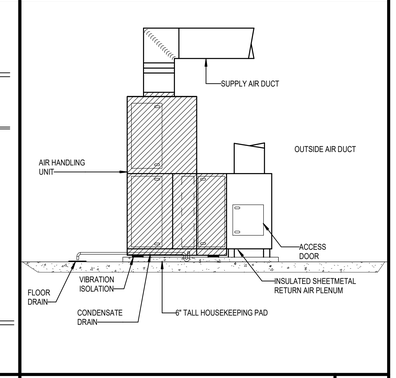
DUCTWORK AT LOUVER CONNECTION DETAIL
NOT TO SCALE

3



DRYER VENT DETAILS
NOT TO SCALE

2



VERTICAL DRAW-THROUGH AIR HANDLING UNIT DETAIL
NOT TO SCALE

1

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

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LICENSED PROFESSIONAL ENGINEER
December 5, 2025
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F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

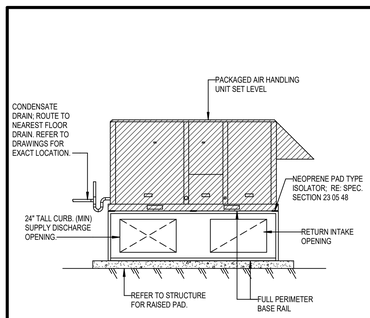
MECHANICAL DETAILS

M-603

Plot Stamp:
12/3/2025 6:04:16 PM

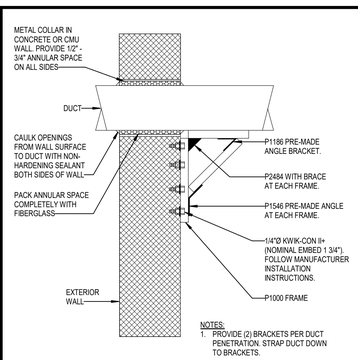
MECHANICAL DETAILS
M-604
FOR BLUEBEAM LABELING/OCR:

0"
1"



PACKAGED AIR HANDLING UNIT-ELEVATED CURB DETAIL
NOT TO SCALE

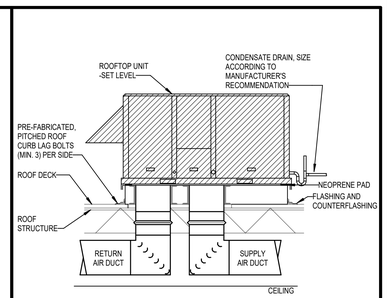
3



NOTES:
1. PROVIDE (2) BRACKETS PER DUCT PENETRATION. STRAP DUCT DOWN TO BRACKETS.

EXTERIOR WALL DUCT SUPPORT DETAIL
NOT TO SCALE

2



ROOFTOP AIR CONDITIONING UNIT DETAIL
NOT TO SCALE

1

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CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL DETAILS

M-604

Plot Stamp:
12/3/2025 6:04:16 PM

ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES
E-000
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ELECTRICAL REMODEL NOTES

1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED:

WALL SWITCHES	•
WALL CONVENIENCE RECEPTACLES	15" AFF TO BOTTOM OF BOX
WALL DATA/VOICE OUTLETS	15" AFF TO BOTTOM OF BOX
WALL OUTLETS FOR WALL MTD. TELEPHONE	•
WALL CLOCK OUTLETS	7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
MANUAL FIRE ALARM PULL STATIONS	•
FIRE ALARM SPEAKER/HORN	1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
INTERIOR BELLS,BUZZERS, HORNS	1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
SPECIAL PURPOSE WALL OUTLETS	15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
PUSH BUTTONS	
ADA VISUAL ALARM	80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96" AFF*

• TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT

* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA)

AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE

2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.
3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
5. CIRCUITING
   A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
   B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
   C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
   D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
6. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
7. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
8. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
9. WHERE DOORS ARE ADDED, OR PORTIONS OF WALLS REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL ELECTRICAL WORK NECESSARY FOR THE REMODELING MODIFICATION, WHETHER OR NOT THIS WORK IS NOTED ON PLANS.
10. WHERE EXISTING JUNCTION BOXES ARE COVERED OR REMOVED, CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO COMPLY WITH NEC 314-19.
11. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
12. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
13. WHEN EXISTING ELECTRICAL WORK IS REMOVED, ALL EXPOSED CONDUIT, WIRING, CONTROL AND JUNCTION BOXES ALONG WALLS, FLOOR, AND CEILING SHALL BE REMOVED. BRANCH CIRCUIT WIRES SHALL BE REMOVED BACK TO CIRCUIT BREAKER(S). BLANK COVER PLATES SHALL BE PROVIDED FOR RECESSED BOXES. WHERE THIS WORK IS DONE, THE WALLS, FLOOR, AND CEILING SHALL BE PATCHES AS NECESSARY UNDER WORK COVERED IN OTHER SECTIONS.
14. EXISTING RECESSED INCANDESCENT AND HID LUMINAIRES DESIGNATED FOR TEMPORARY REMOVAL AND RE-USE SHALL BE STORED. ALL SUCH LUMINAIRES NOT THERMALLY PROTECTED PER NEC 410-118 AND 410-130(F) ARE NOT SUITABLE FOR RE-USE AND SHALL BE GIVEN TO THE OWNER. PROVIDE NEW REPLACEMENT LUMINAIRES WITH UL THERMAL PROTECTION, IDENTICAL APERTURE, EQUIVALENT PHOTOMETRICS AND NEW LAMPS.
15. CONTRACTOR TO REFER TO ARCHITECTURAL DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
16. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS:
   A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILINGS TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS
   B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGNS, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
   C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
   D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
   E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RATED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT, RACEWAY, CABLE ASSEMBLIES BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
17. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING, OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.
18. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, AND STATE AND LOCAL CODES AND AMENDMENTS.
19. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL ISSUED BOOK SPECIFICATIONS

ELECTRICAL SYMBOL LEGEND

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELEECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED:

- LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT: PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED
- J — JUNCTION BOX
- GROUNDING FIXTURE

LIGHTING:

- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION
- WALL OR BRACKET MOUNTED FIXTURE OR DEVICE
- EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS

CONTROL:

- \$ — SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY POERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "2" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- \$D — WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER
- \$\$ — MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- \$T — DIGITAL TIME SWITCH
- PC — PHOTOELECTRIC CONTROL
- EMERGENCY POWER OFF (EPO) PUSHBUTTON
- PUSH BUTTON
- \$OC — WALL MOUNT OCCUPANCY SENSOR
- DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR
- R — CEILING MOUNTED RESTROOM OCCUPANCY SENSOR
- C — CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR
- HB — CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR
- PLC — ABOVE CEILING MOUNTED PLUG LOAD CONTROL POWER PACK

POWER OUTLETS:

- 20A-125V DUPLEX RECEPTACLE
- 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE
- 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER
- C — 20A-125V CONTROLLED DUPLEX RECEPTACLE
- 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
- CH — 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
- 20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE
- c AND cs INDICATES CONTROLLED RECEPTACLES. BOTH SWITCHED AND UNSWITCHED POWER SHALL BE PROVIDED. SEE CONTACTOR SCHEDULE FOR SWITCHED POWER. PROVIDE AS DESCRIBED BELOW
- c — FOR DUPLEX BOTH OUTLETS ARE CONTROLLED. FOR QUADPLEX LEFT TWO OUTLETS ARE CONTROLLED AND RIGHT TWO ARE UNCONTROLLED
- cs — SPLIT YOKE CONTROLLED RECEPTACLE, TOP CONTROLLED BOTTOM UNCONTROLLED
- SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET
- 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE
- LC1-X — CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. RE: PANEL SCHEDULES FOR INFORMATION.

TELEPHONE/DATA:

- FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE
- WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS
- FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
- SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

EQUIPMENT:

- +42" — A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
- MOTOR
- DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED
- SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
- MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
- COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
- CONTACTOR
- PANELBOARD
- SWITCHBOARD / DP
- T — TRANSFORMER
- GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250
- B — BELL. "WP" INDICATED OUTDOOR RATED

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

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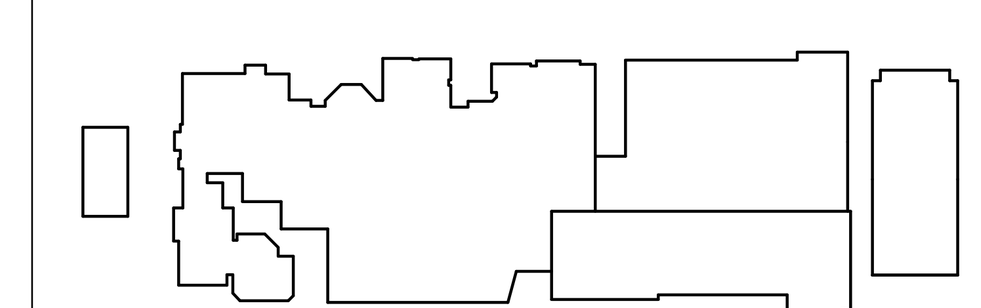

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES

E-000

Plot Stamp:
12/3/2025 6:56:24 PM

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1ST FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

E-101

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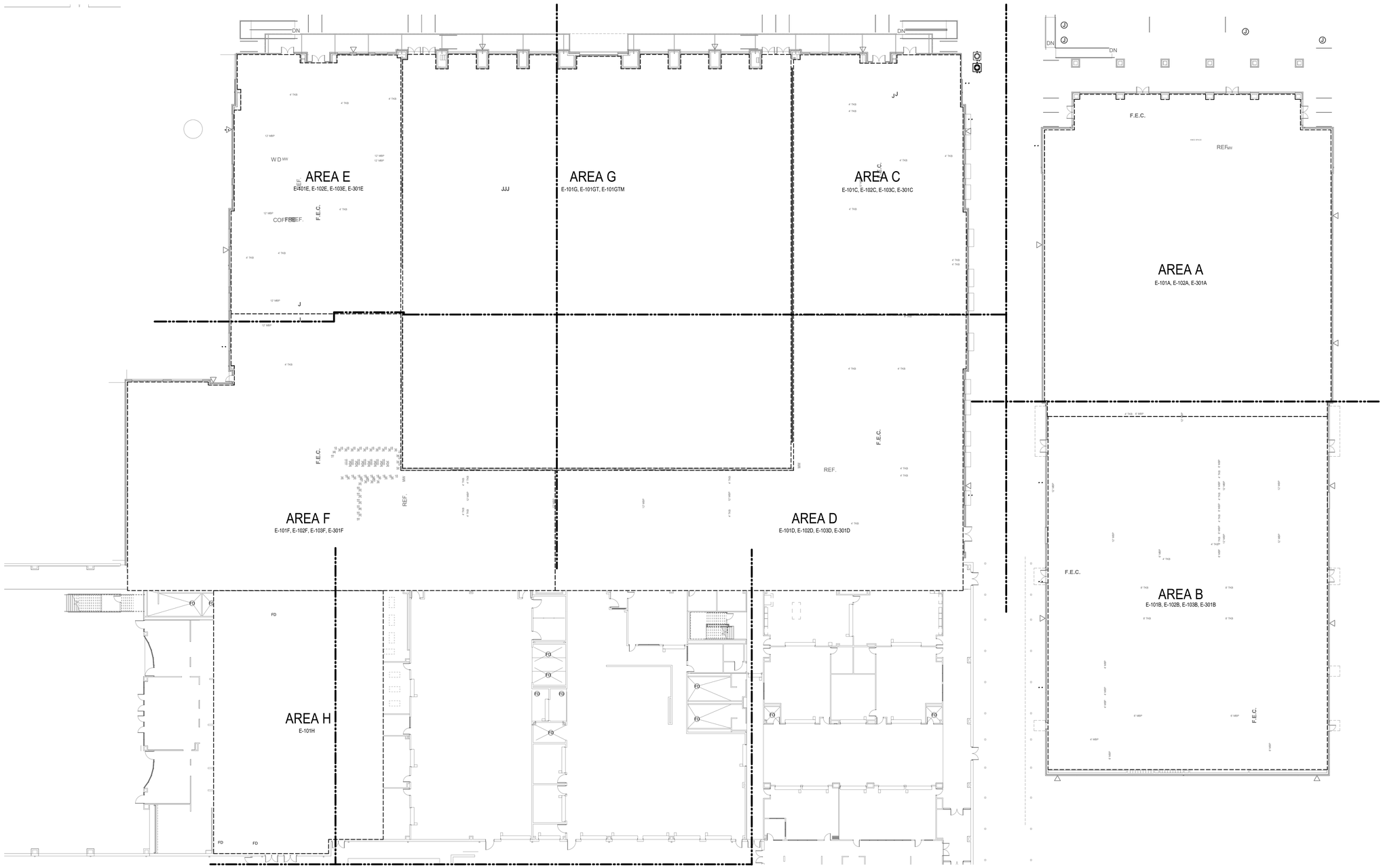

1 1ST FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
SCALE: 1" = 20'-0"

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CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

E-101

Plot Stamp:
12/3/2025 6:56:38 PM

1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-101A

FOR BLUEBEAM LABELING/OCR:

0"
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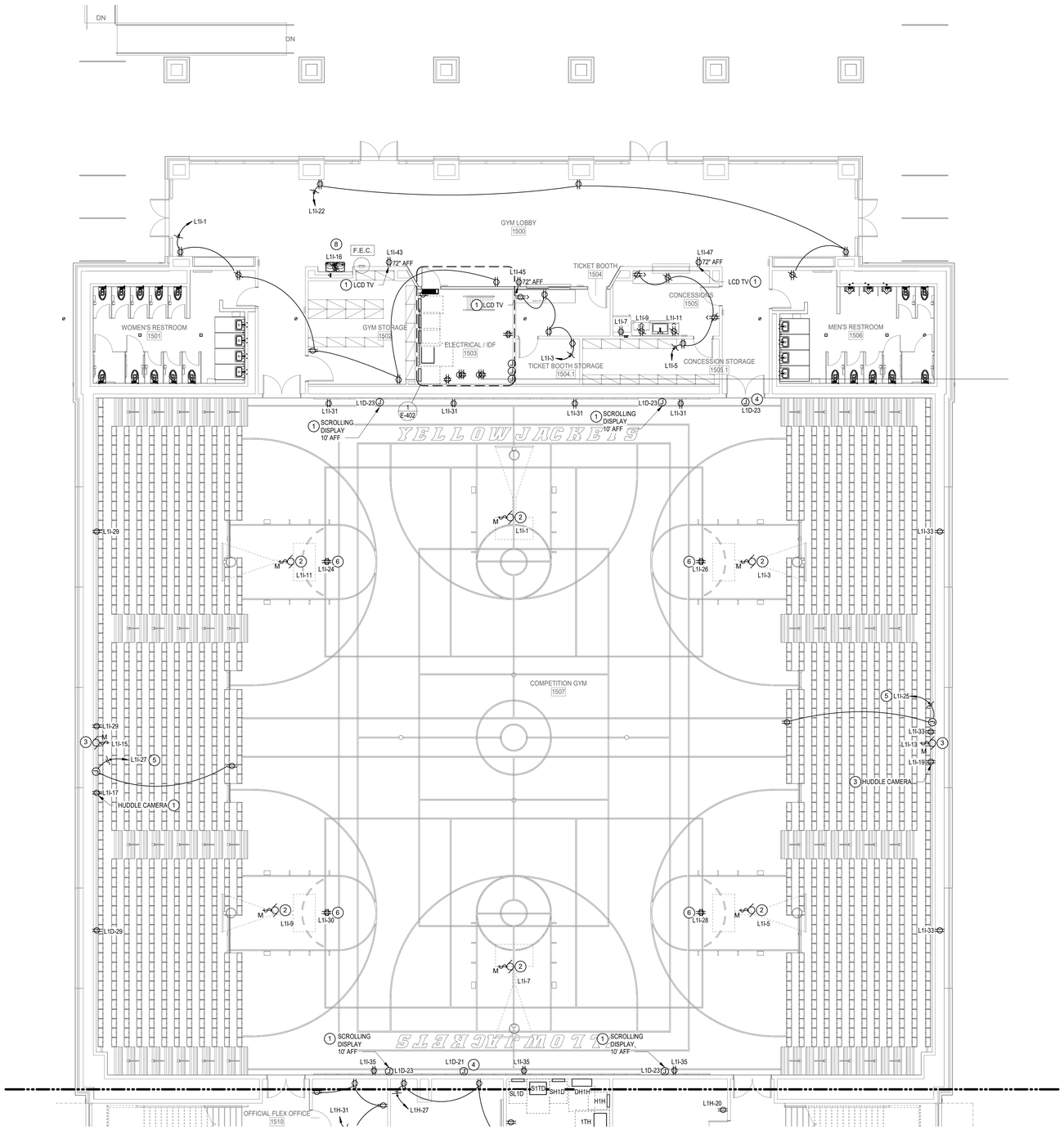

1 1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE POWER TO MOTORIZED BACKBOARD. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE KEYED SWITCH FOR CONTROL OF EACH GOAL.
3. PROVIDE POWER FOR MOTORIZED BLEACHERS, PROVIDE ALL CONNECTIONS TO BLEACHERS PER MANUFACTURE'S INSTRUCTIONS.
4. PROVIDE POWER TO SCOREBOARD. VERIFY EXACT MOUNTING HEIGHT/LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE 'SO' CORD FROM JUNCTION BOX TO RECEPTACLE MOUNTED IN FACE OF BLEACHERS. LENGTH AS REQUIRED FOR FULL BLEACHER EXTENSION.
6. CEILING MOUNTED L5-20R QUAD RECEPTACLE MOUNTED TO BOTTOM OF JOIST FOR LASER PROJECTOR. FIELD VERIFY FINAL LOCATION WITH TECHNOLOGY
7. ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION AND ALL POWER REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN
8. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

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DATE	PROJECT NUMBER
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No.	Description	Date

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DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN

E-101A

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1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-101B

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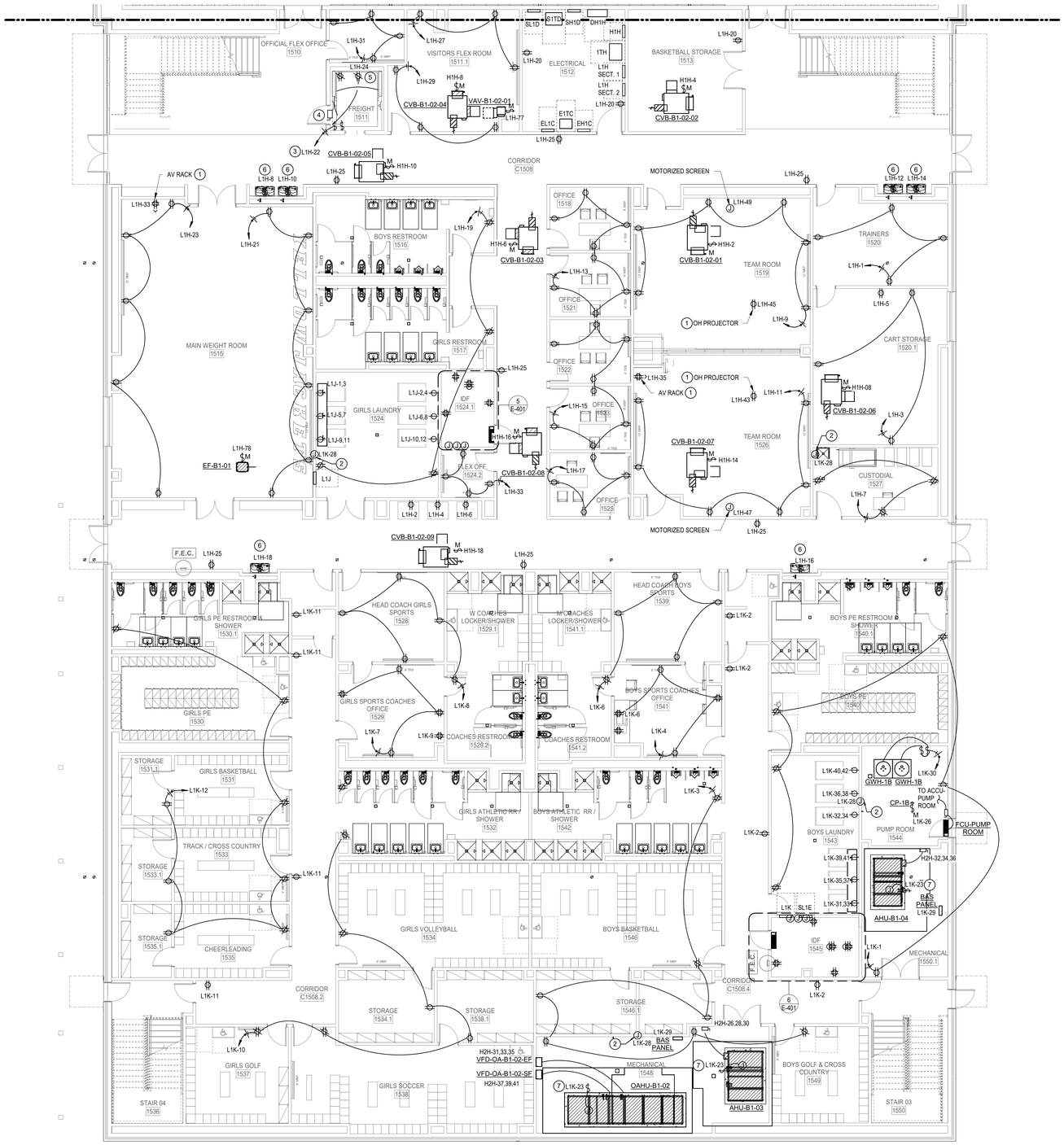
0"
1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
3. TWO LIGHT FIXTURES (DAY-BRITE#DW A E 51L-840-4-UNV) SHALL BE PROVIDED IN THE ELEVATOR SHAFT: ONE LOCATED ADJACENT TO THE PIT LADDER AS HIGH AS POSSIBLE AND ONE ON THE OPPOSITE WALL AT THE TOP OF THE HOISTWAY. EACH FIXTURE SHALL BE CONTROLLED BY A SWITCH LOCATED ADJACENT TO THE ELEVATOR SHAFT OPENING AND ON THE SAME LEVEL AS THE FIXTURE BEING CONTROLLED. PROVIDE ONE GFI RECEPTACLE IN THE ELEVATOR PIT. ALL DEVICES SHALL BE IN NEMA 4 ENCLOSURES. COORDINATE EXACT LOCATIONS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
4. ELEVATOR AUTOMATIC SHUTDOWN SWITCH SHALL BE LOCATED IN CLOSET DEDICATED TO ELEVATOR EQUIPMENT AND ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY. IN ADDITION A NON FUSED LOCKABLE IN THE OPEN POSITION DISCONNECT SHALL BE PROVIDED IN THE ELEVATOR SHAFT WITHIN SIGHT OF THE MOTOR CONTROLLER. PROVIDE PER SPECIFICATION 26 09 14. MAKE ALL CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED BY ELEVATOR MANUFACTURER AND VERIFY ELEVATOR EQUIPMENT LOCATIONS WITH ELEVATOR SUPPLIER BEFORE ELECTRICAL ROUGH-IN. COORDINATE FUSE, DISCONNECT SWITCH , CIRCUIT BREAKER, CONDUCTOR AND CONDUIT SIZES FOR ELEVATOR WITH THE ELEVATOR SUPPLIER RECOMMENDATION(S) AND REQUIREMENTS PRIOR TO SUBMITTING CONTROLLER BY DIVISION 26. COORDINATE LOCATION OF CONTROLLER WITH ELEVATOR INSTALLER IN FIELD.
5. PROVIDE RECEPTACLE AND SWITCH FOR SUMP PUMP IN ELEVATOR PIT ALL IN NEMA 4 ENCLOSURES. COORDINATE LOCATION OF RECEPTACLE AND SWITCH WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
7. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

1 **1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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STATE OF TEXAS
DONALD C. RICHARDS
61525
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PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

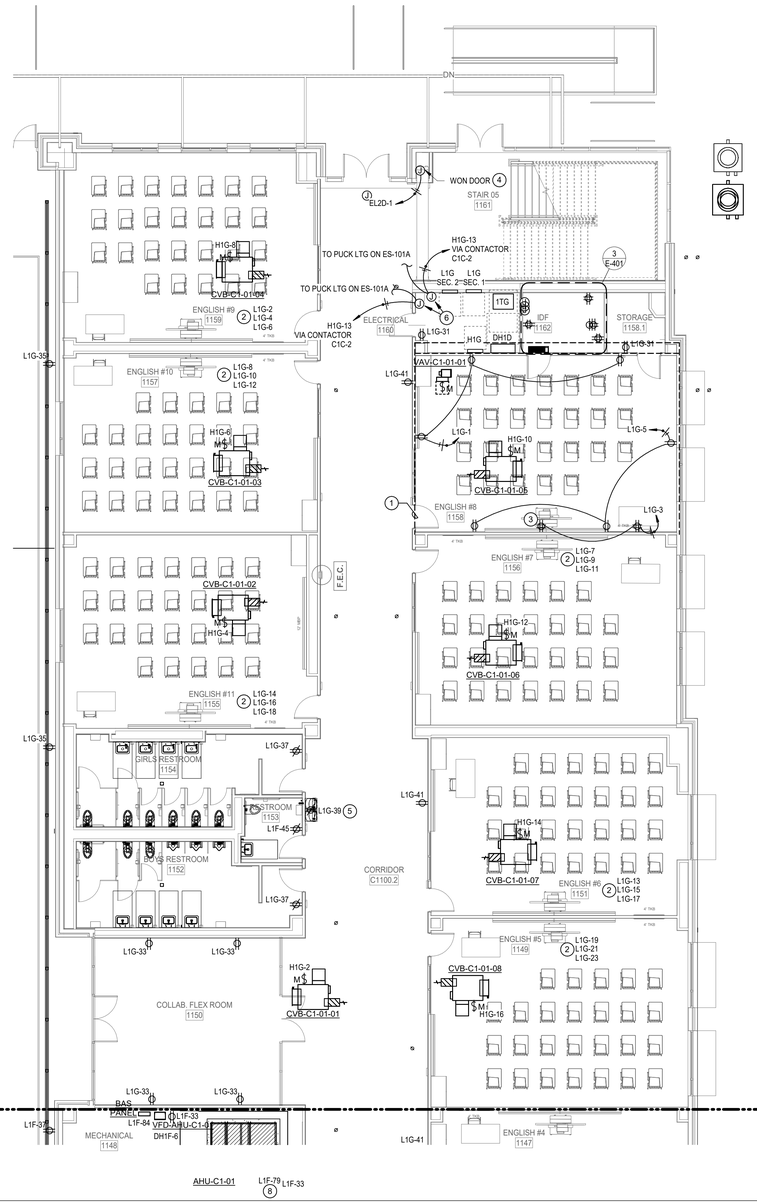
E-101B

0"
1"

1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101C

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 6:57:09 PM

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
6. REMOTE DRIVER FOR PUCK LIGHT. CONTRACTOR SHALL FIELD COORDINATE ROUTING OF LOW VOLTAGE WIRING TO HAND RAIL PUCK.

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LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101C

1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101D

FOR BLUEBEAM LABELING/OCR:

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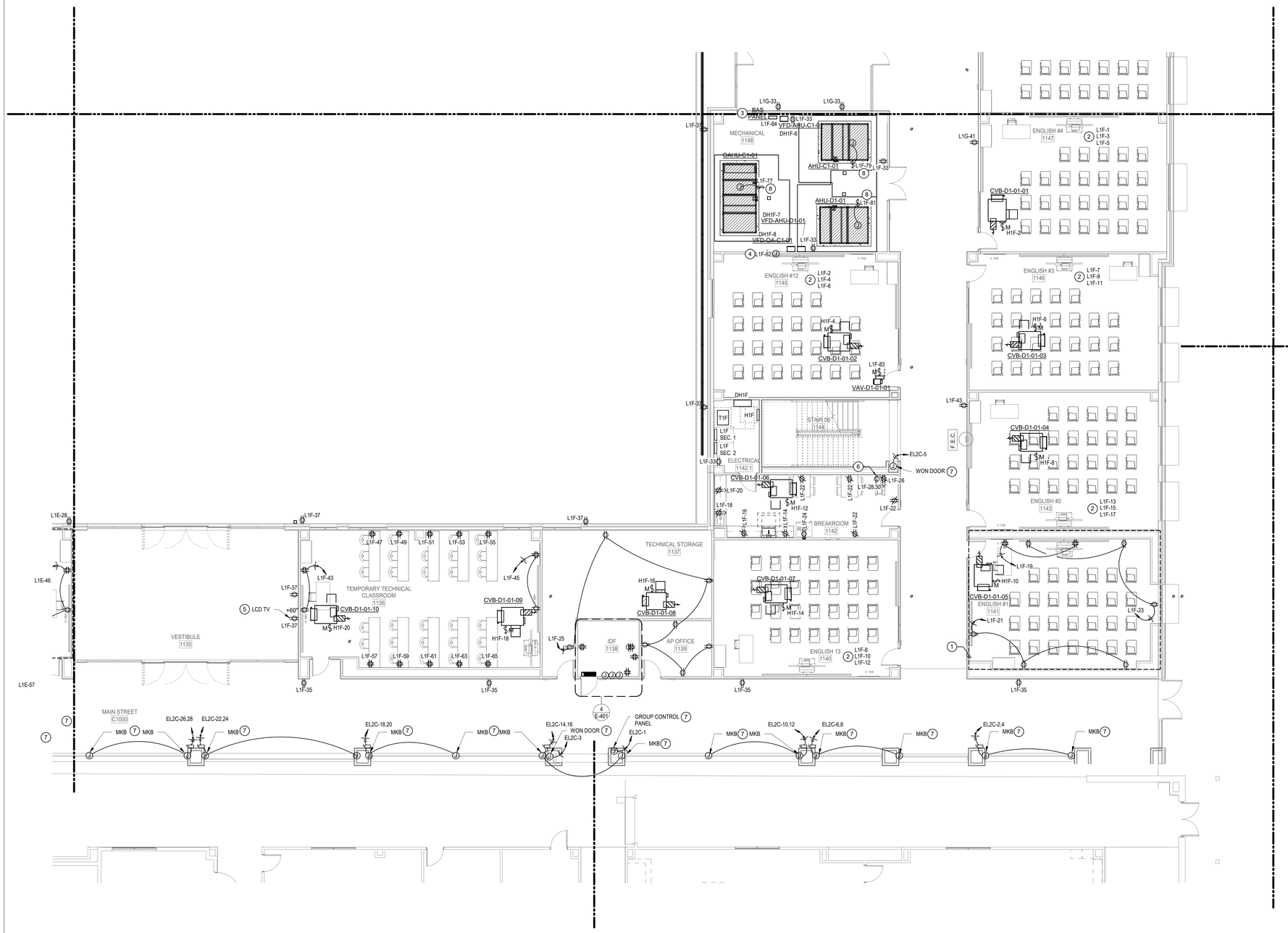

1 1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
4. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION..
5. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE POWER TO COPIER. VERIFY EXACT NEMA CONFIGURATION WITH COPIER MANUFACTURER PRIOR TO ROUGH-IN.
7. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
8. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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KEY PLAN

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STATE OF TEXAS
DONALD C. RICHARDS
61124
LICENSED
PROFESSIONAL ENGINEER

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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101D

Plot Stamp:
12/3/2025 6:57:12 PM

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1"

1ST FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101E

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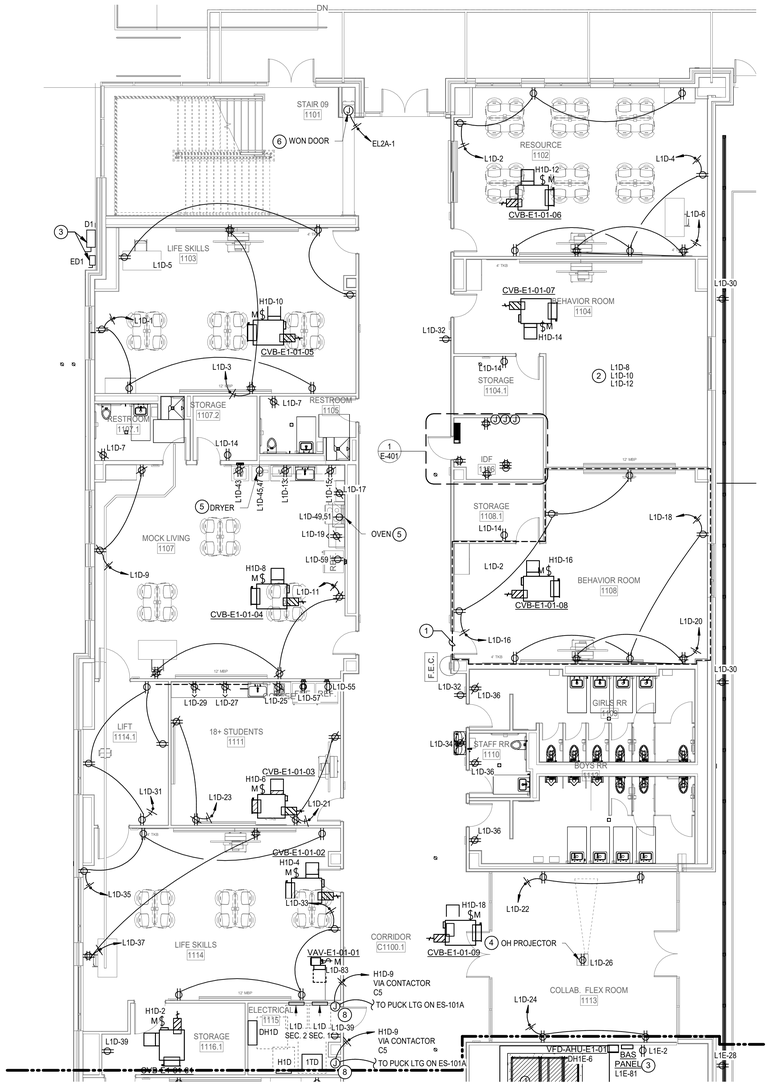

1 **1ST FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
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POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

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3. DISCONNECTS FOR FUTURE TEMPORARY CONNECTION SEE ELECTRICAL RISER DIAGRAM E-502 - ELECTRICAL RISER DIAGRAM
4. OFCI RETRACTABLE GOLF SIMULATOR. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
5. PROVIDE POWER TO APPLIANCE. VERIFY EXACT NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
6. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
7. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
8. REMOTE DRIVER FOR PUCK LIGHT. CONTRACTOR SHALL FIELD COORDINATE ROUTING OF LOW VOLTAGE WIRING TO HAND RAIL PUCK.

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DRAWING HISTORY

No.	Description	Date

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DRAWN BY: LT

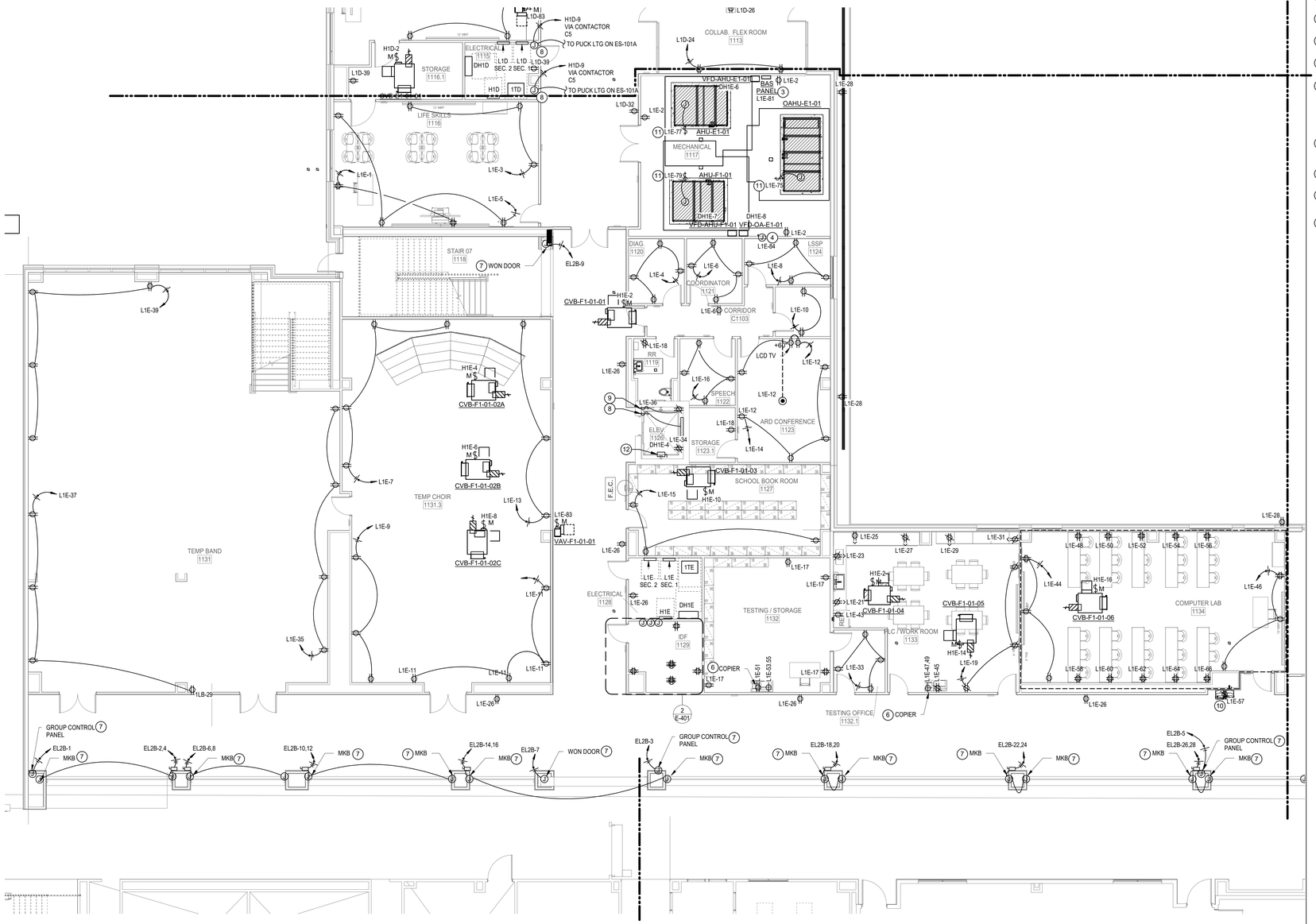
1ST FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101E

1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101F

FOR BLUEBEAM LABELING/OCR:

0"
1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
4. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION..
5. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE POWER TO APPLIANCE. VERIFY EXACT NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
7. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
8. TWO LIGHT FIXTURES (DAY-BRITE#DW A E 51L-840-4-UNV) SHALL BE PROVIDED IN THE ELEVATOR SHAFT: ONE LOCATED ADJACENT TO THE PIT LADDER AS HIGH AS POSSIBLE AND ONE ON THE OPPOSITE WALL AT THE TOP OF THE HOISTWAY. EACH FIXTURE SHALL BE CONTROLLED BY A SWITCH LOCATED ADJACENT TO THE ELEVATOR SHAFT OPENING AND ON THE SAME LEVEL AS THE FIXTURE BEING CONTROLLED. PROVIDE ONE GFI RECEPTACLE IN THE ELEVATOR PIT. ALL DEVICES SHALL BE IN NEMA 4 ENCLOSURES. COORDINATE EXACT LOCATIONS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
9. PROVIDE RECEPTACLE AND SWITCH FOR SUMP PUMP IN ELEVATOR PIT ALL IN NEMA 4 ENCLOSURES. COORDINATE LOCATION OF RECEPTACLE AND SWITCH WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
10. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
11. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.
12. ELEVATOR AUTOMATIC SHUTDOWN SWITCH SHALL BE LOCATED IN CLOSET DEDICATED TO ELEVATOR EQUIPMENT AND ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY. IN ADDITION A NON FUSED LOCKABLE IN THE OPEN POSITION DISCONNECT SHALL BE PROVIDED IN THE ELEVATOR SHAFT WITHIN SIGHT OF THE MOTOR CONTROLLER. PROVIDE PER SPECIFICATION 26 09 14. MAKE ALL CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED BY ELEVATOR MANUFACTURER AND VERIFY ELEVATOR EQUIPMENT LOCATIONS WITH ELEVATOR SUPPLIER BEFORE ELECTRICAL ROUGH-IN. COORDINATE FUSE, DISCONNECT SWITCH , CIRCUIT BREAKER, CONDUCTOR AND CONDUIT SIZES FOR ELEVATOR WITH THE ELEVATOR SUPPLIER RECOMMENDATION(S) AND REQUIREMENTS PRIOR TO SUBMITTING CONTROLLER BY DIVISION 26. COORDINATE LOCATION OF CONTROLLER WITH ELEVATOR INSTALLER IN FIELD.

1 **1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 6:57:21 PM

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

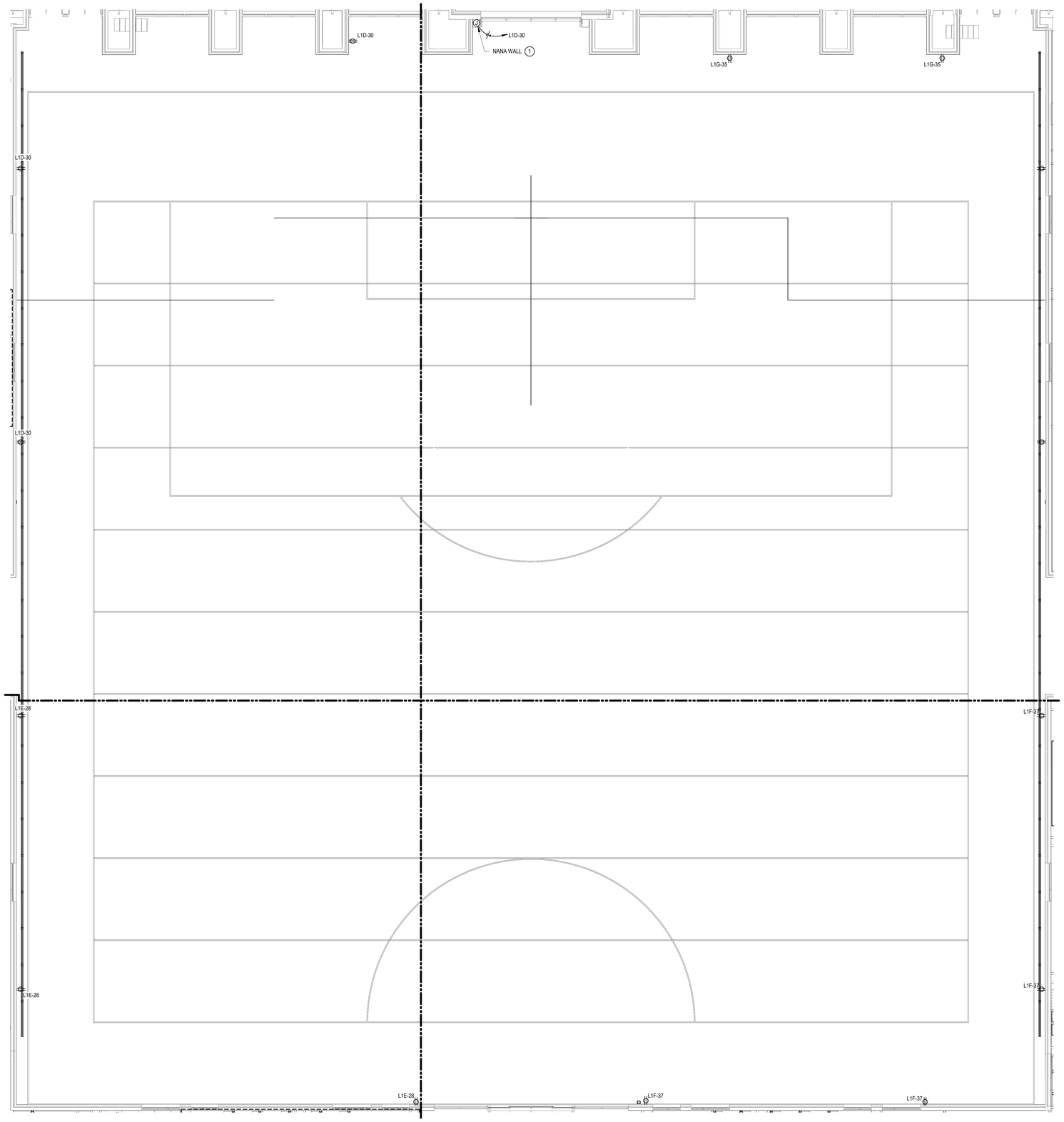
1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101F

0"
1"

1ST FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101G

FOR BLUEBEAM LABELING/OCR:



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

(1) FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS

1 1ST FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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KEY PLAN

NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

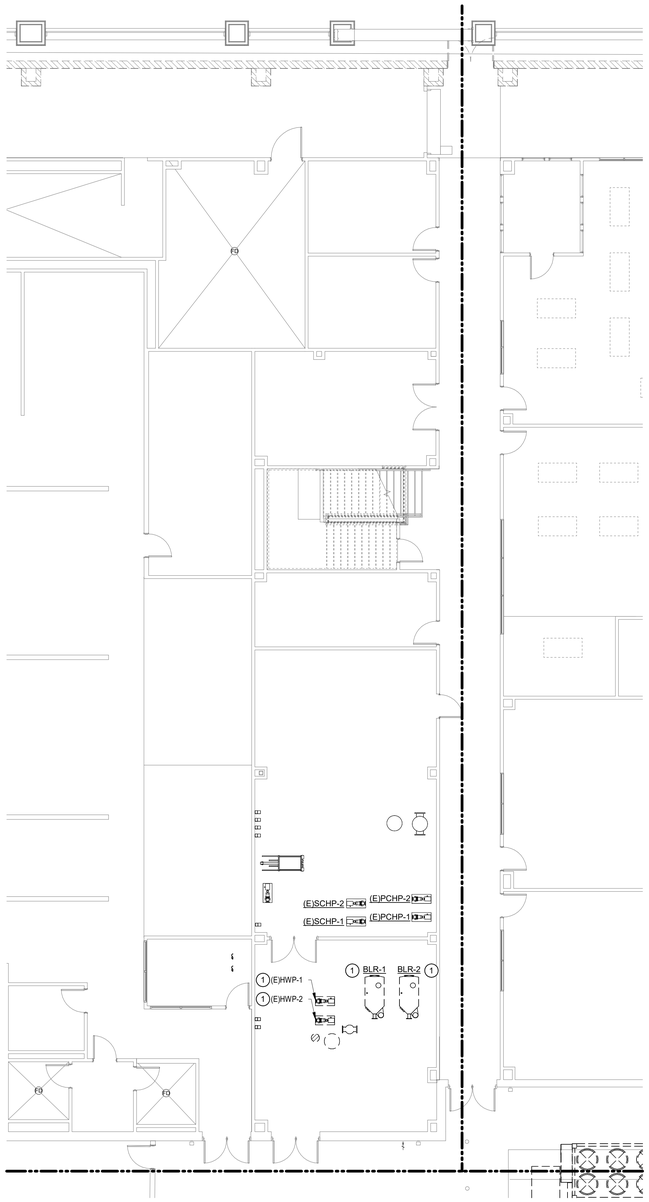
1ST FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101G

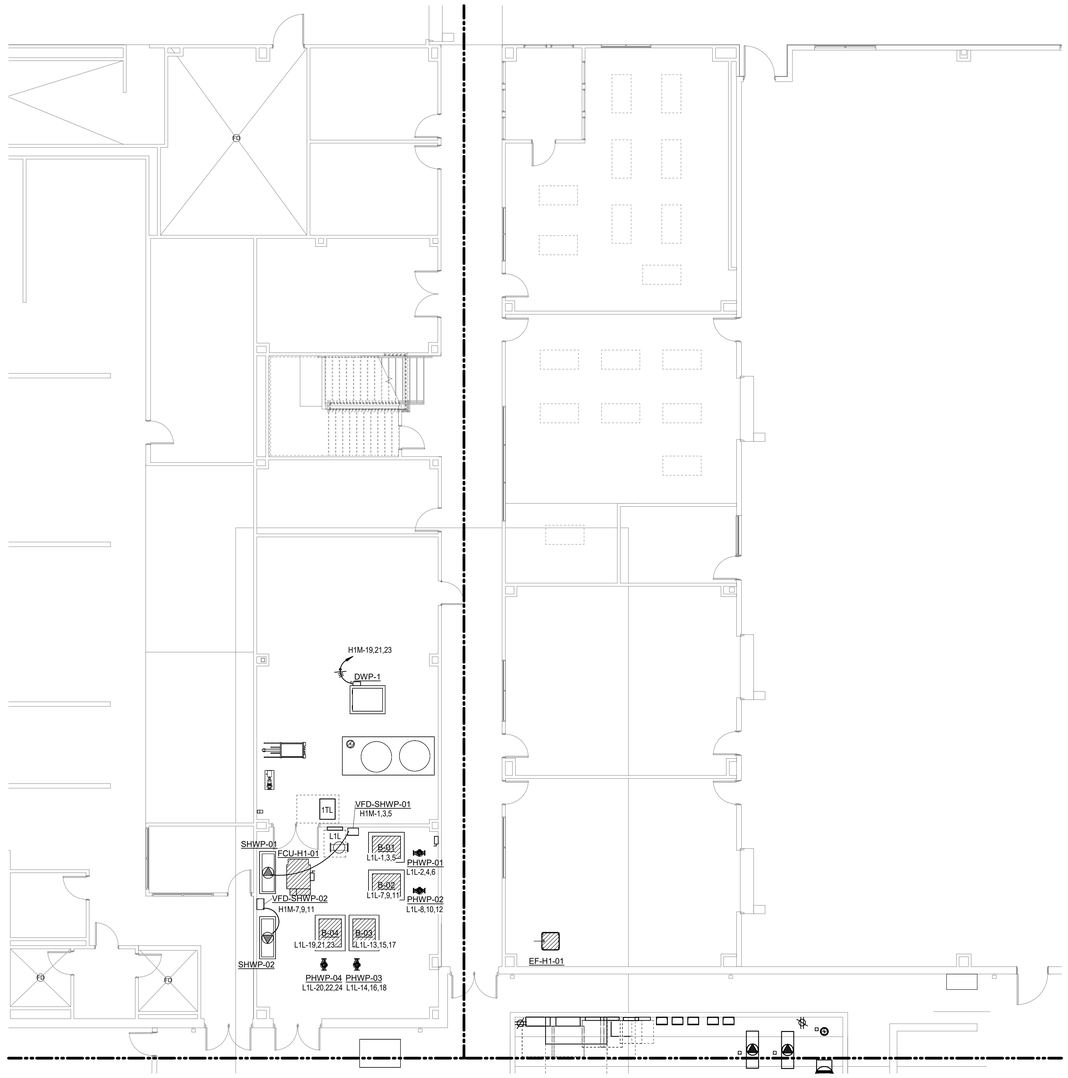
Plot Stamp:
12/3/2025 6:57:23 PM

0"
1"

1ST FLOOR POWER PLAN - AREA H - CTE
E-101H
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR TEMPORARY POWER DEMO PLAN - AREA H - CTE
SCALE: 1/8" = 1'-0"



2 1ST FLOOR TEMPORARY POWER PLAN - AREA H - CTE
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

(1) POWER FOR EXISTING EQUIPMENT SHALL BE DEMOLISHED BACK TO PANEL AND MADE SAFE. UPDATE AFFECTED PANEL SCHEDULE REFLECTING REMOVED LOAD.

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Galena Park ISD

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA H - CTE

E-101H

Plot Stamp:
12/3/2025 6:57:23 PM

0"
1"

2ND FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
E-102

FOR BLUEBEAM LABELING/OCR:

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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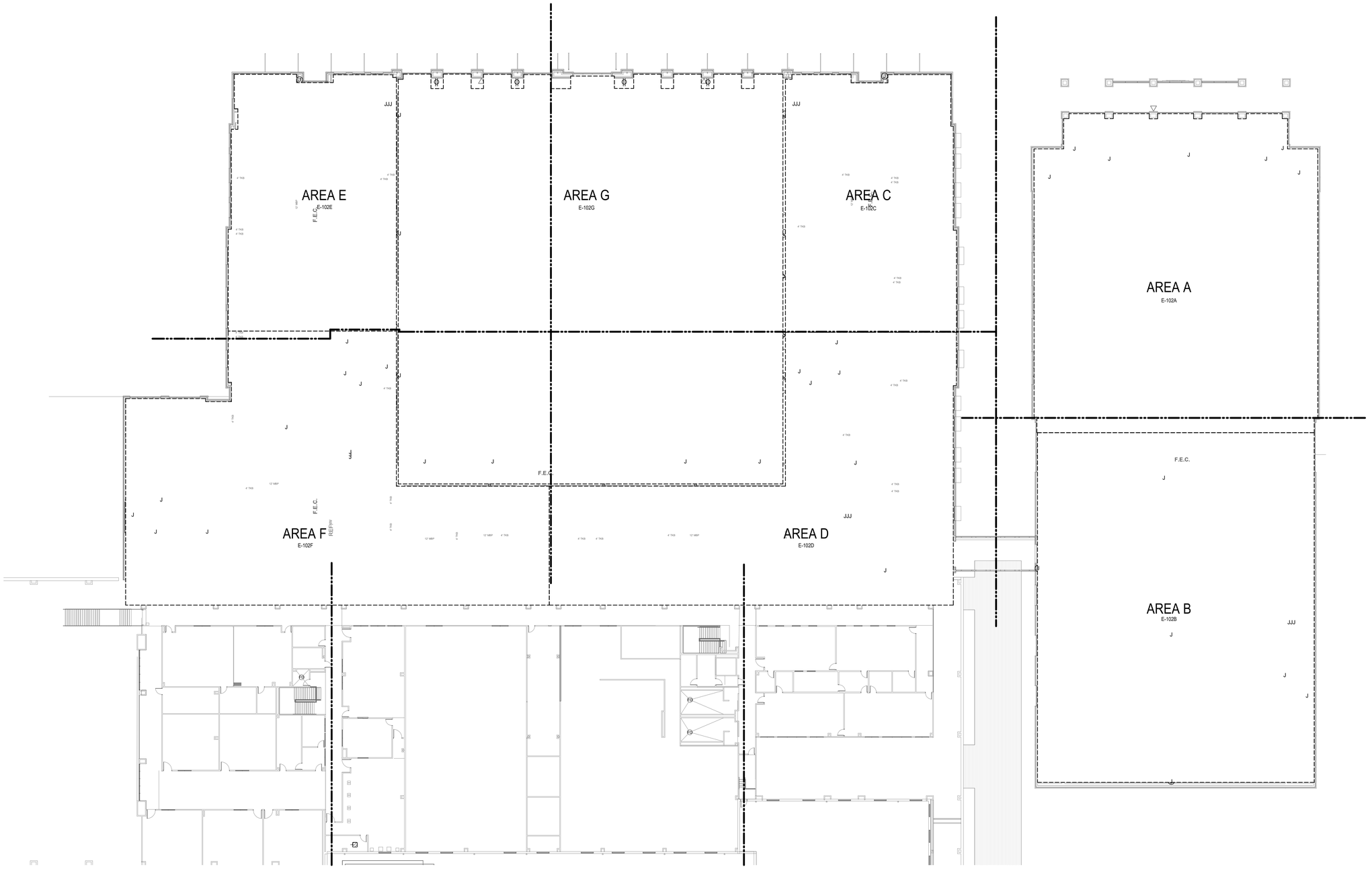

1 **2ND FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN**
SCALE: 1" = 20'-0"

Plot Stamp:
12/3/2025 6:57:31 PM

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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

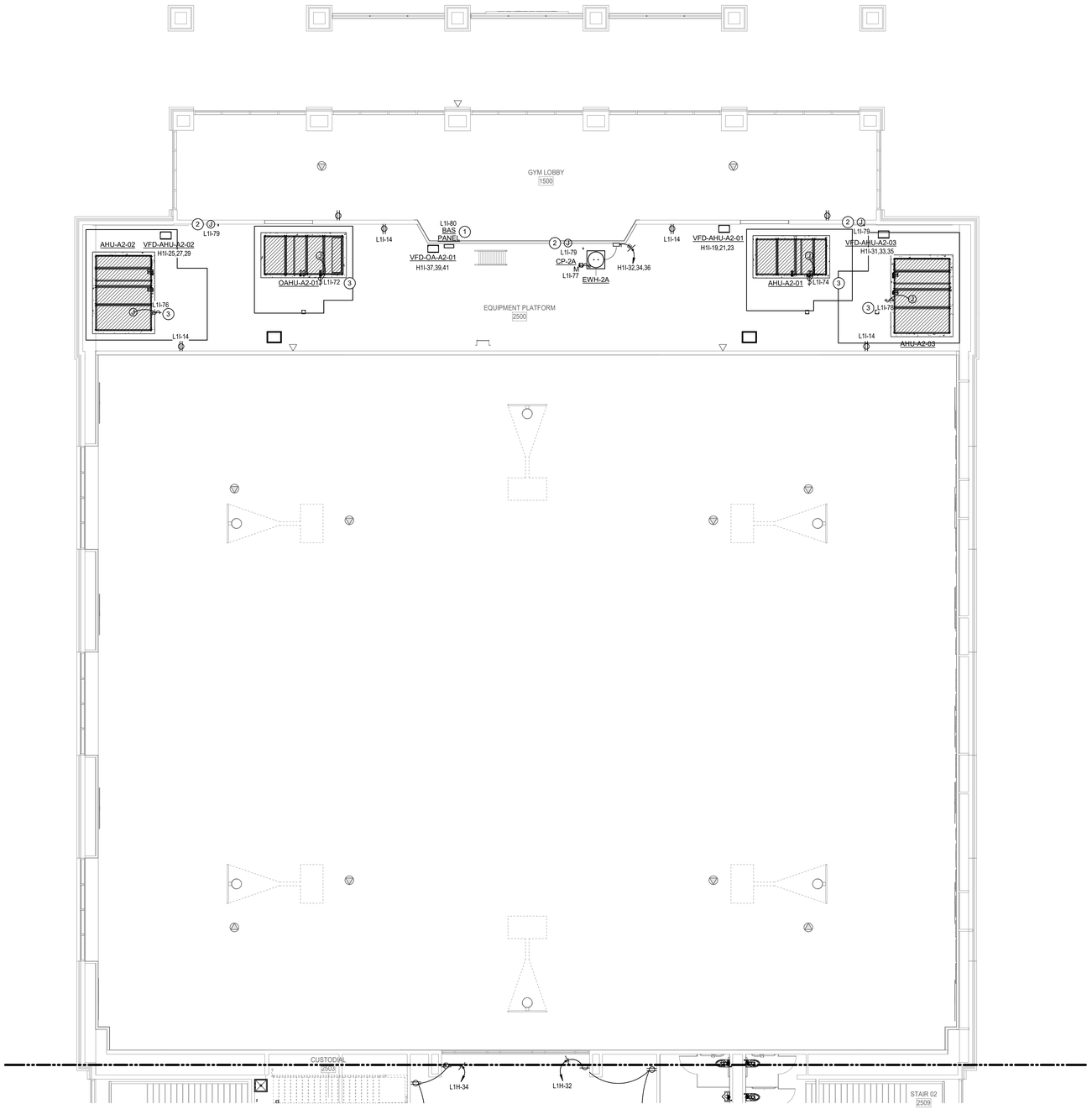
No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

E-102

2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-102A
FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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POWER PLAN KEYED NOTES

1. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
2. ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION AND ALL POWER REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN
3. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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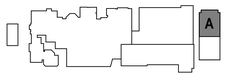


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN

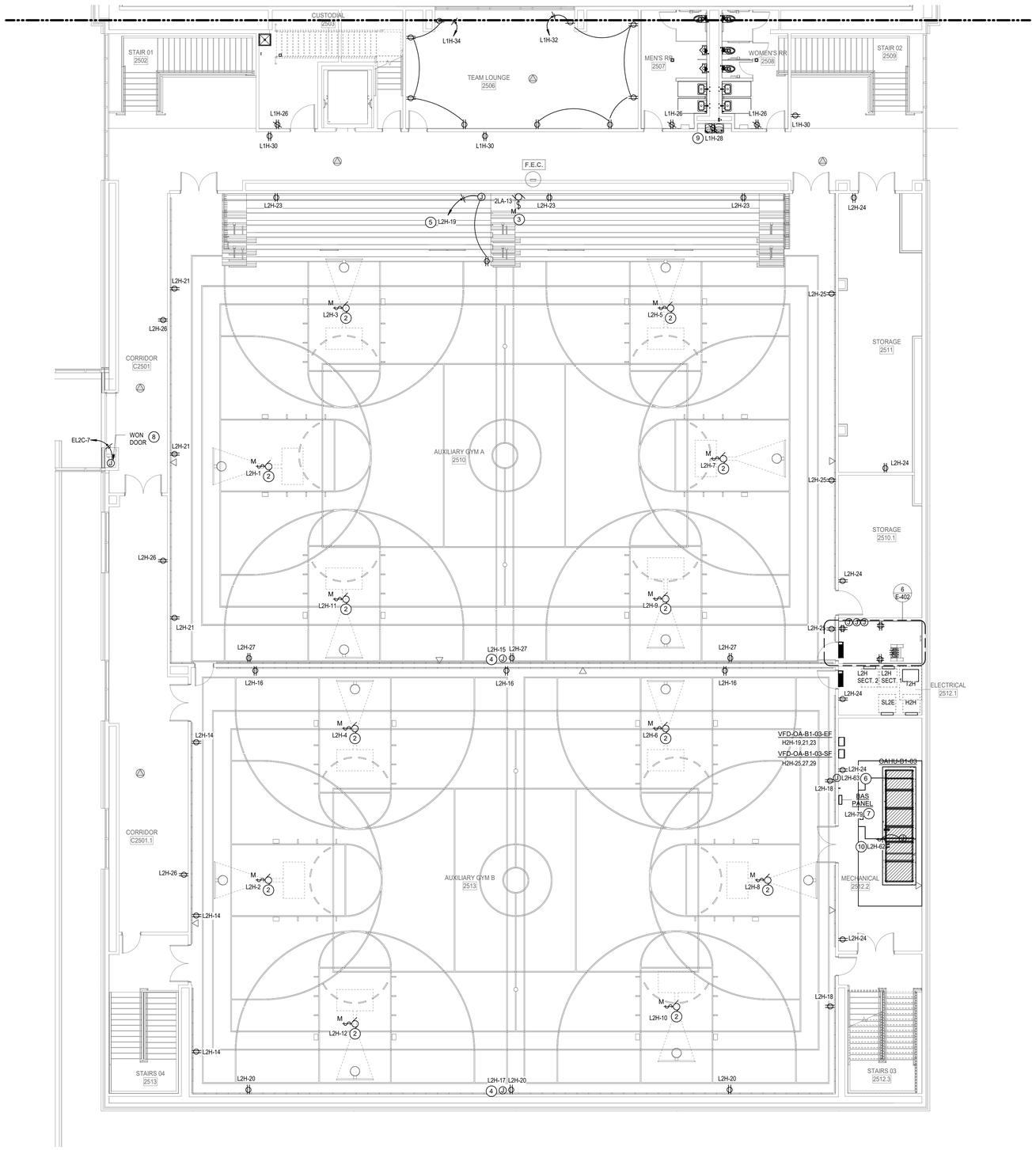
E-102A

Plot Stamp:
12/3/2025 6:57:34 PM

2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-102B

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 **2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE POWER TO MOTORIZED BACKBOARD. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE KEYED SWITCH FOR CONTROL OF EACH GOAL.
3. PROVIDE POWER FOR MOTORIZED BLEACHERS, PROVIDE ALL CONNECTIONS TO BLEACHERS PER MANUFACTURE'S INSTRUCTIONS.
4. PROVIDE POWER TO SCOREBOARD. VERIFY EXACT MOUNTING HEIGHT/LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE 'SO' CORD FROM JUNCTION BOX TO RECEPTACLE MOUNTED IN FACE OF BLEACHERS. LENGTH AS REQUIRED FOR FULL BLEACHER EXTENSION.
6. ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION AND ALL POWER REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN
7. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
8. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
9. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
10. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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KEY PLAN
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STATE OF TEXAS
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PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

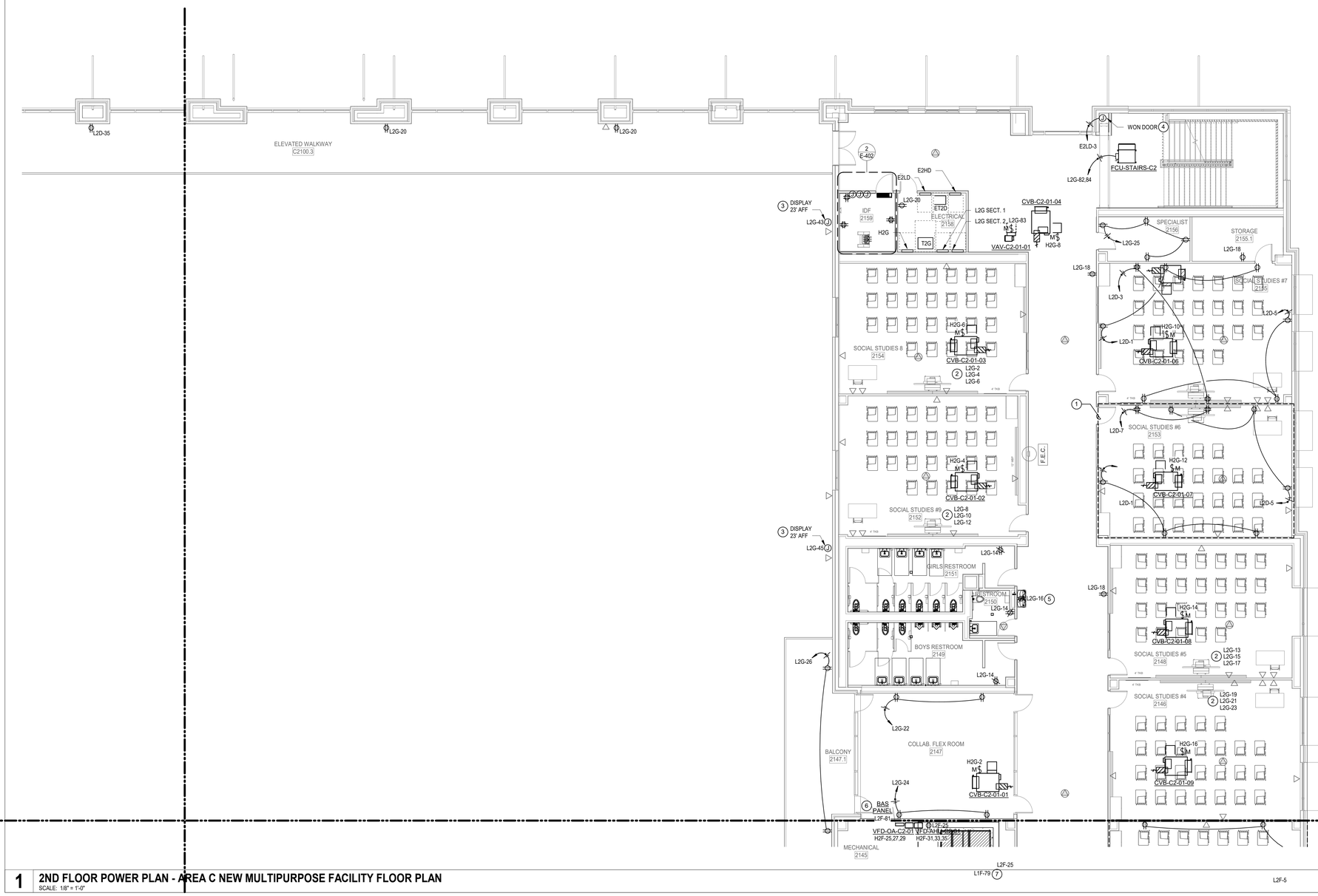
E-102B

Plot Stamp:
12/3/2025 6:57:39 PM

0"
1"

2ND FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-102C

FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 6:57:46 PM

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

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Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102C

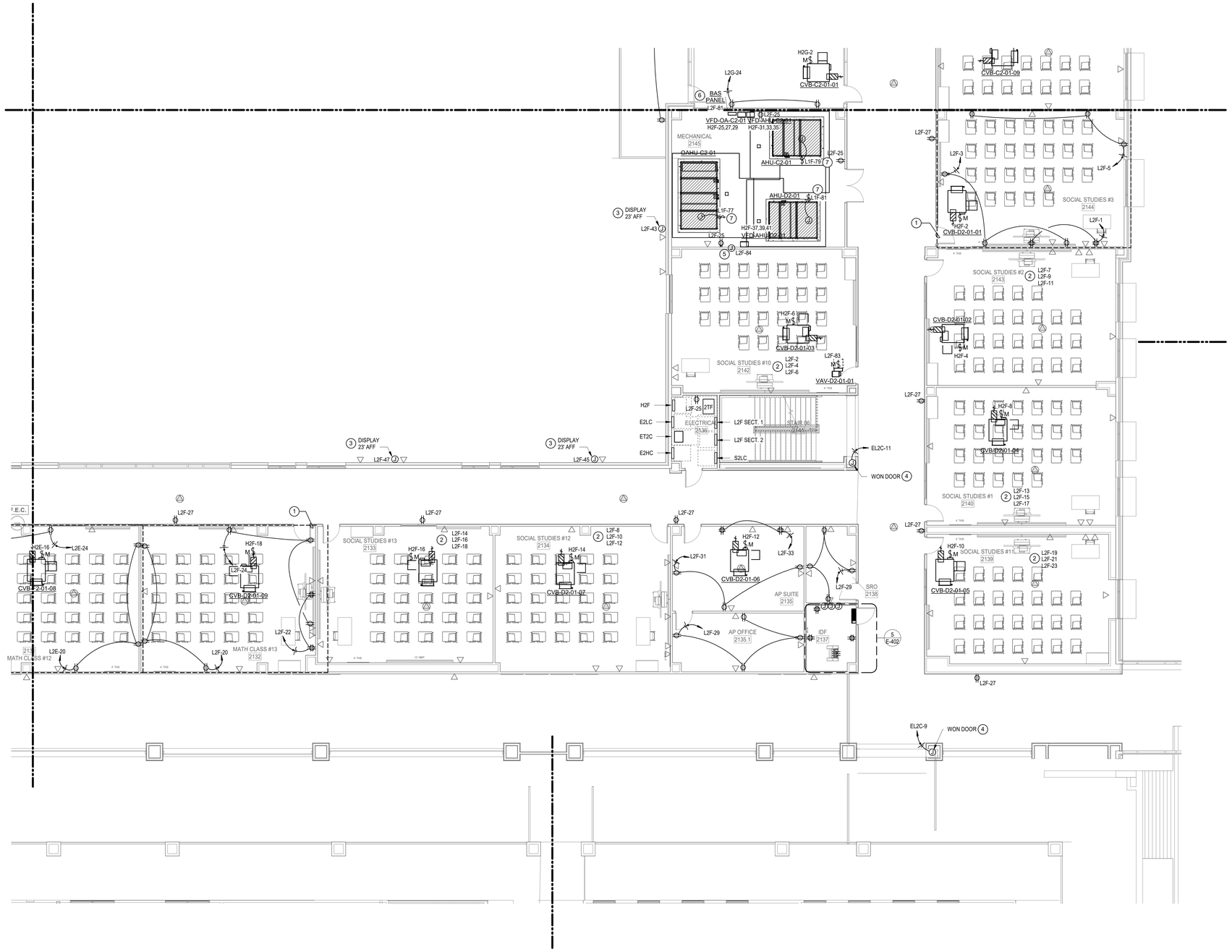
2ND FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102D

FOR BLUEBEAM LABELING/OCR:

0"

1"



1 **2ND FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
6. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
7. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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Galena Park ISD
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D

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61524
LICENSED PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102D

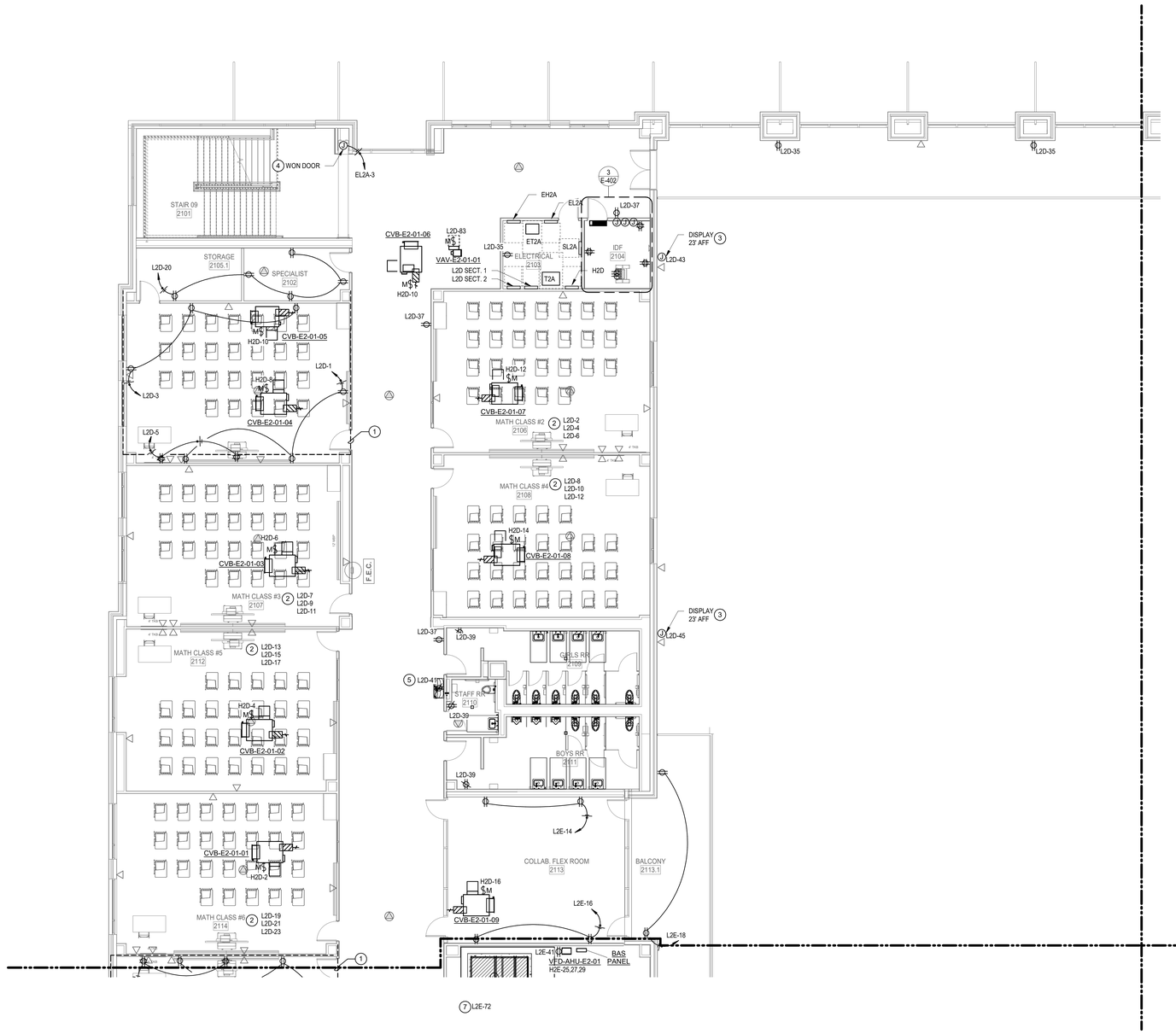
Plot Stamp:
12/3/2025 6:57:51 PM

0"
1"

2ND FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102E

FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

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2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

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KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61524
LICENSED PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102E

Plot Stamp:
12/3/2025 6:57:58 PM

0"
1"

2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102F

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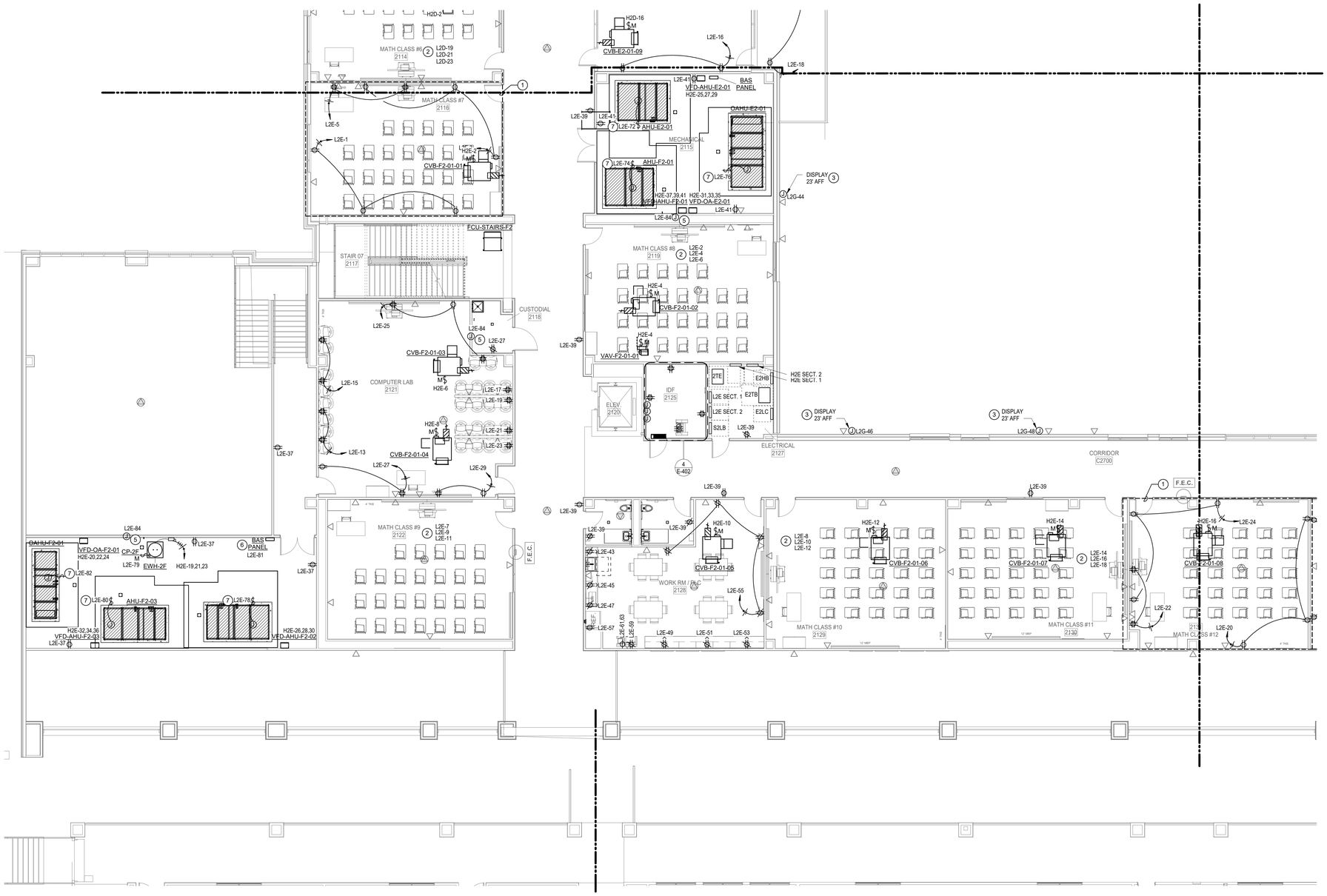

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2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

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4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
6. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
7. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

1 **2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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STATE OF TEXAS
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61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
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F-18672

CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

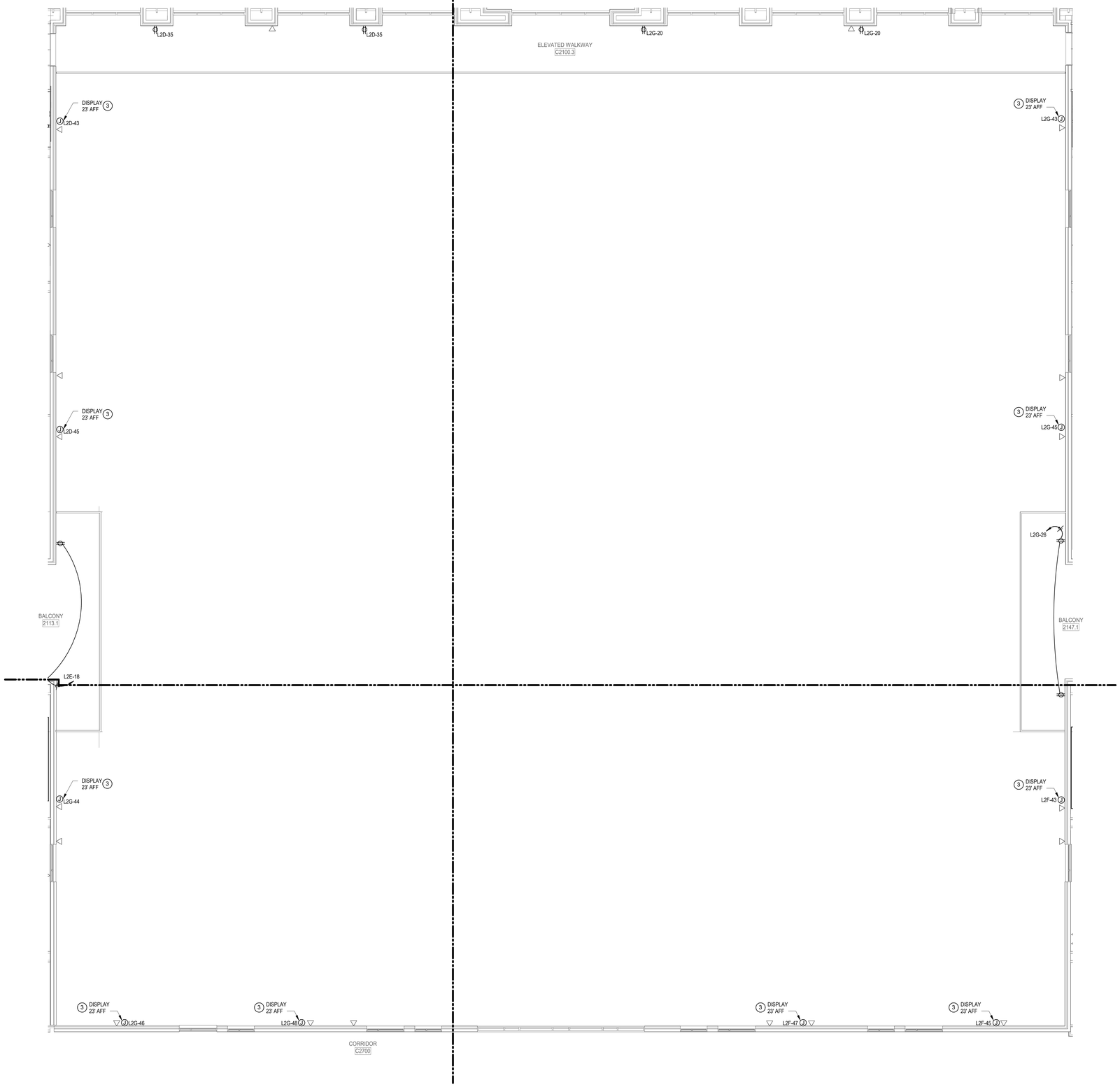
E-102F

Plot Stamp:
12/3/2025 6:58:02 PM

0"
1"

2ND FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-102G

FOR BLUEBEAM LABELING/OCR:



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2. PROVIDE POWER TO CEILING MOUNTED FRONT ROW SYSTEM CONTROL BOX. COORDINATE WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX FOR POWER TO ELECTRIC HAND DRYER. VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN. POWER FOR BUILDING AUTOMATION SYSTEM. COORDINATE EXACT LOCATION WITH MECHANICALCONTROLS PRIOR TO ROUGH-IN.
4. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION..
5. PROVIDE CONDUIT STUB UP TO OUTLET MOUNTED IN CASEWORK. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR. POWER TO TV, COORDINATE EXACT MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR. CONDUIT STUB-UP. PROVIDE (2) 1" CONDUIT IN SLAB FROM NEAREST FULL HEIGHT WALL.
7. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
8. PROVIDE POWER TO MOTORIZED BACKBOARD. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE KEYED SWITCH FOR CONTROL OF EACH GOAL.
9. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
10. PROVIDE POWER TO COPIER. VERIFY EXACT NEMA CONFIGURATION WITH COPIER MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE 4-GANG FLOOR BOX WIREMOLD EVOLUTION #RFB4. PROVIDE (2) DUPLEX RECEPTACLES AND 3/4" CONDUIT FOR POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRINGS FOR DATA; ROUTE UNDERSLAB TO NEAREST FULL HEIGHT WALL AND UP TO ACCESSIBLE CEILING PLENUM. DO NOT DAISY CONDUIT TO FLOOR BOXES.
12. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR.

1 2ND FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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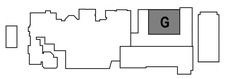

KEY PLAN
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STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

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Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102G

Plot Stamp:
12/3/2025 6:58:03 PM

0"
1"

3RD FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY FLOOR PLAN
E-103

FOR BLUEBEAM LABELING/OCR:

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
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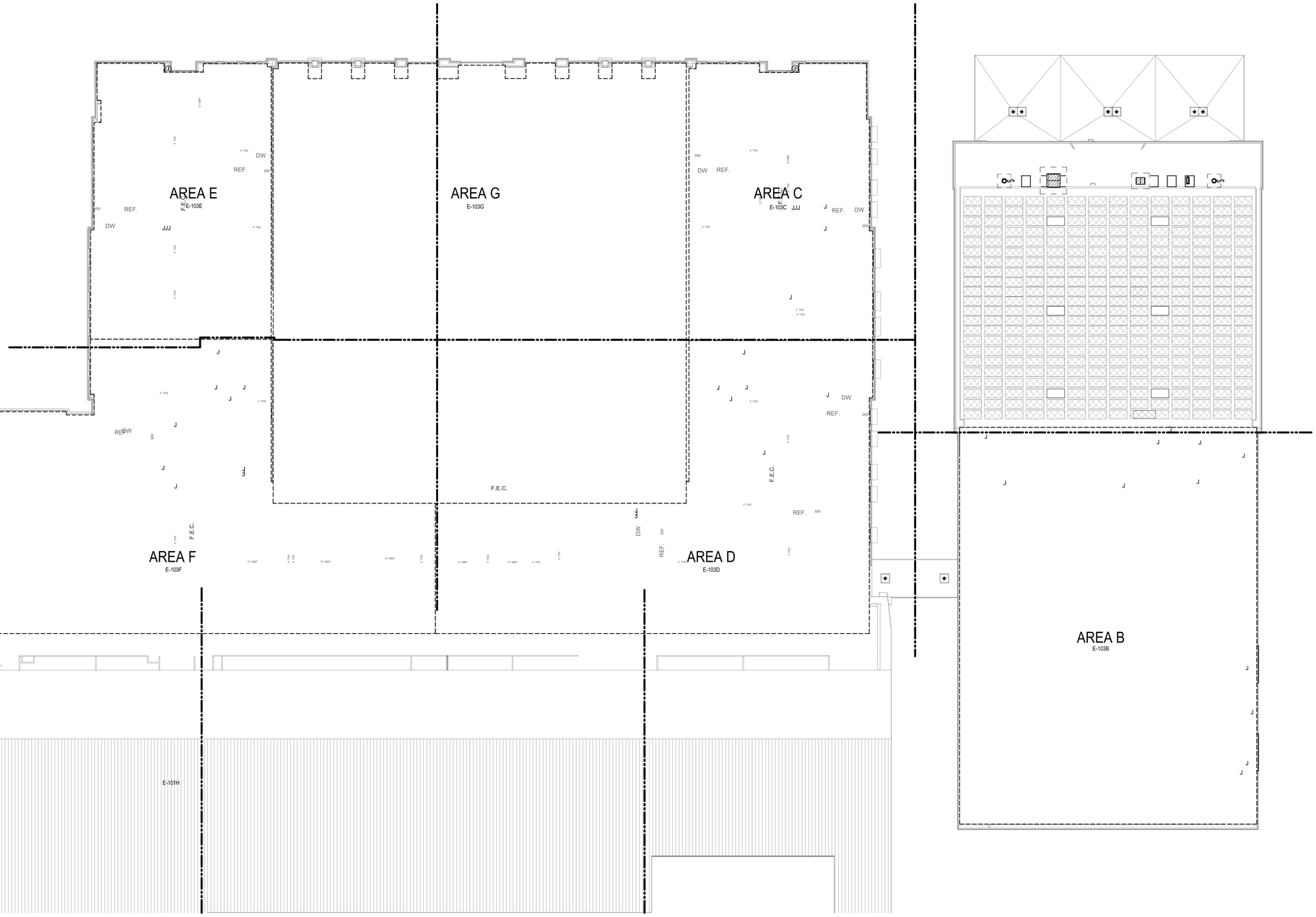
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.



1 3RD FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
SCALE: 1" = 20'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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LEAF ENGINEERS
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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR POWER PLAN - NEW GYM & MULTIPURPOSE FACILITY FLOOR PLAN

E-103

Plot Stamp:
12/3/2025 6:58:09 PM

3RD FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-103B

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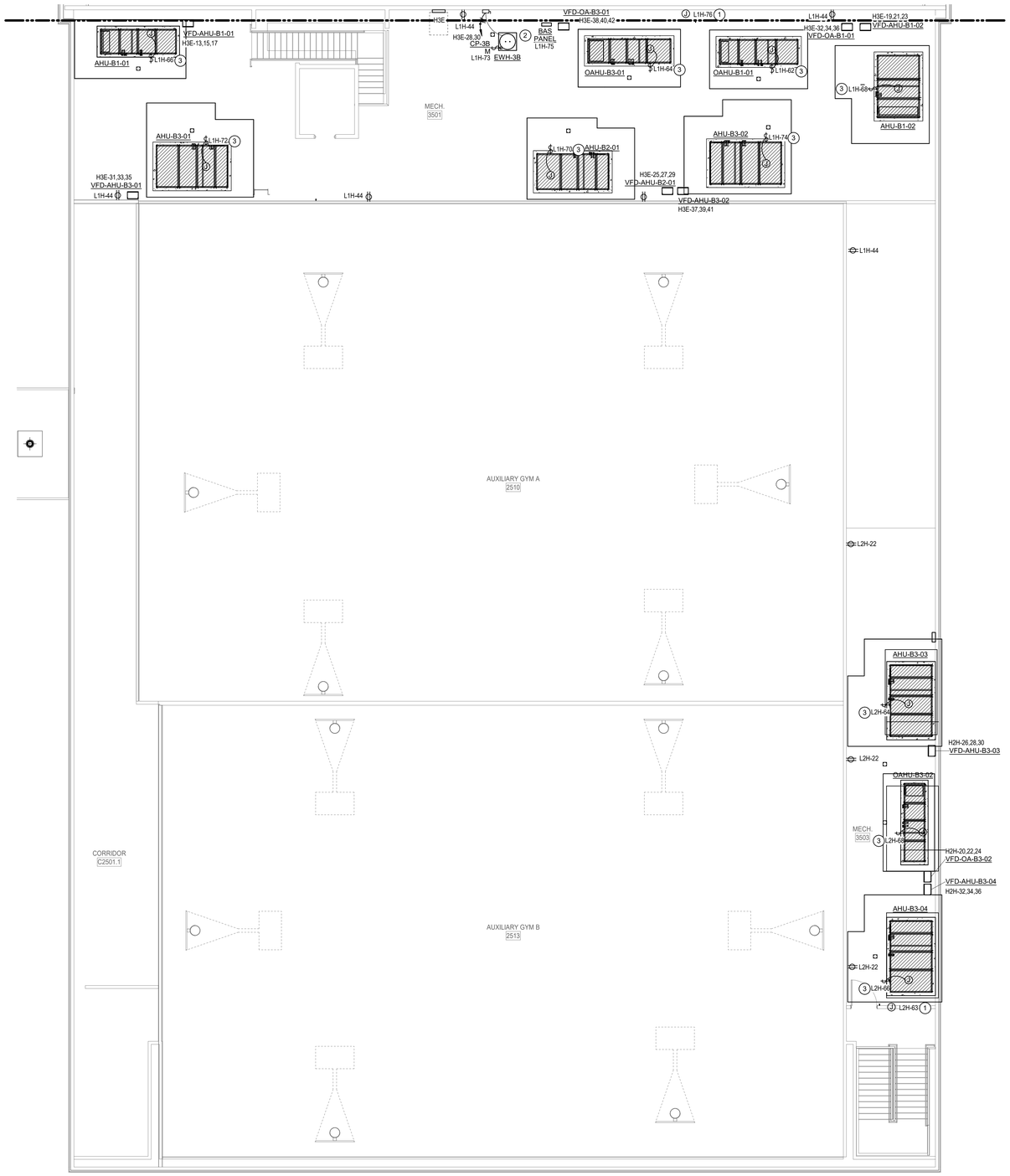
1"



1 3RD FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 6:58:12 PM

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
2. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
3. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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KEY PLAN — NORTH: PLAN ≈ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

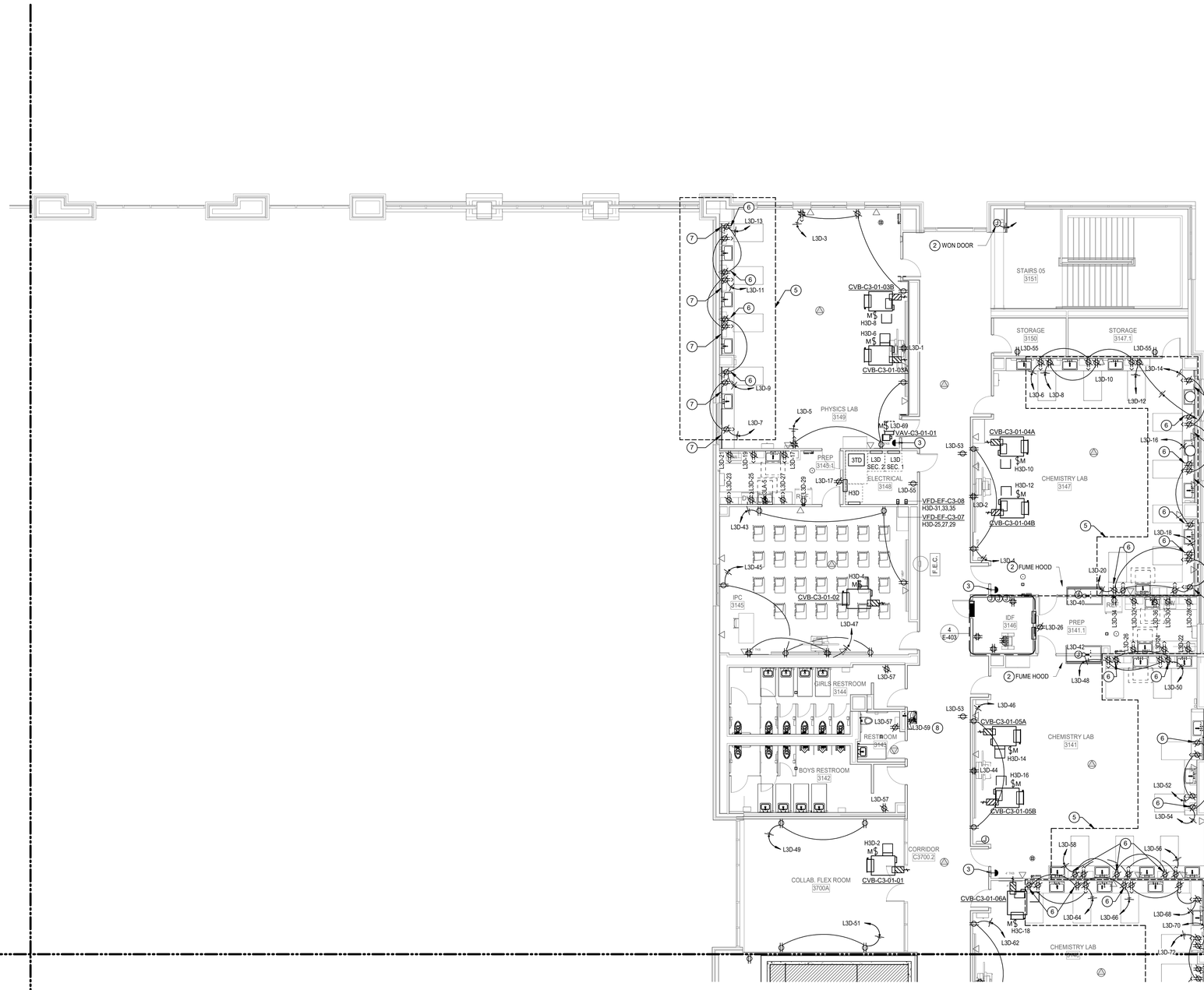
E-103B

3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103C

FOR BLUEBEAM LABELING/OCR:

0"
1"



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POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES, SEE SHEET NOTE 5. BUTTON SHALL ALSO CLOSE GAS AND WATER SOLENOID VALVES SERVING THIS ROOM. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY COUNTER MOUNT AGAINST BACKSPLASH. COORDINATE WITH ARCHITECT FOR FINISH. PROVIDE ALL PARTS FOR A COMPLETE SYSTEM.
8. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

1 3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

L3C-69 (14)

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61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

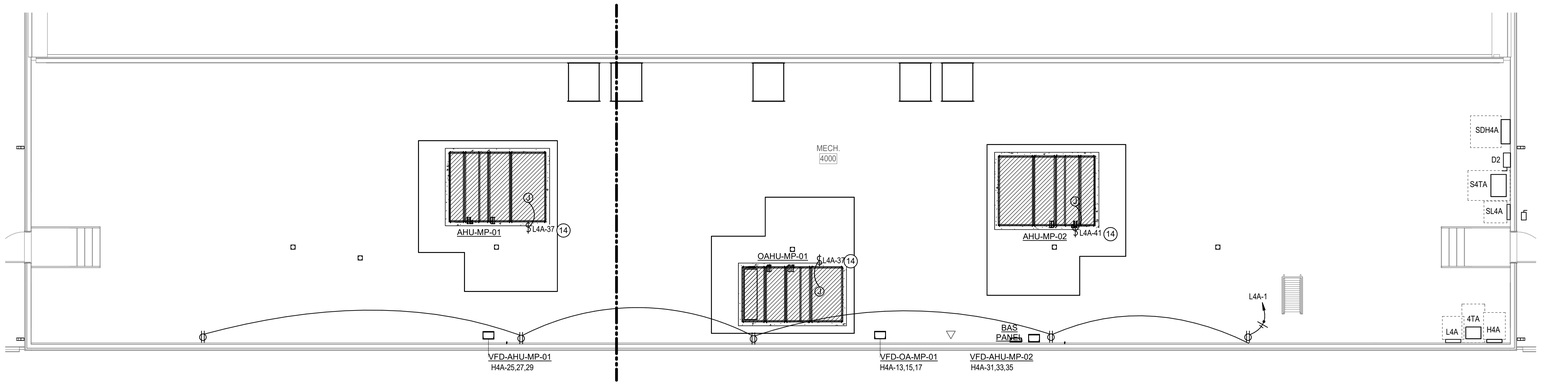
CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

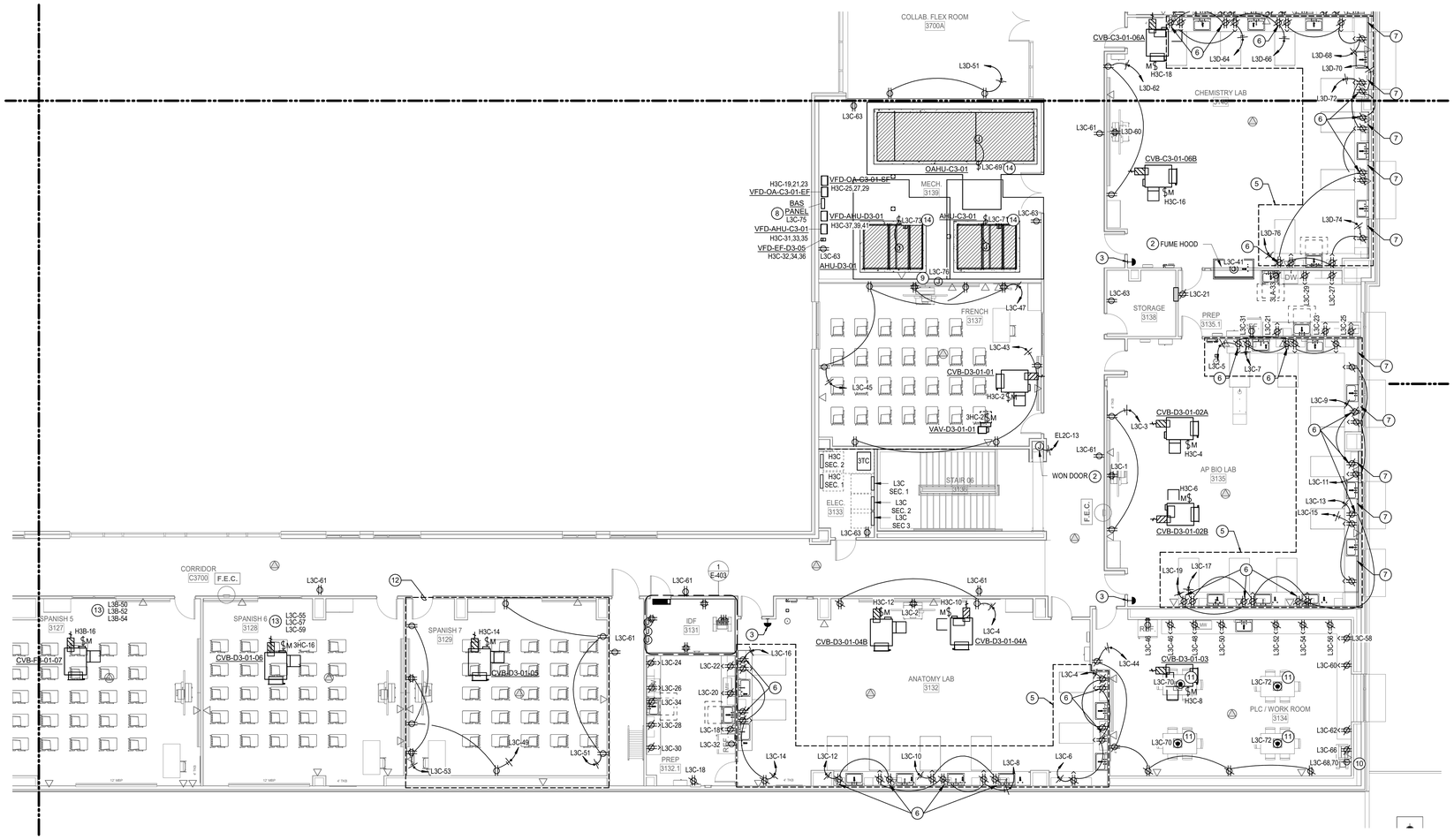
E-103C

0"
1"

2 POWER MECH ROOM PLAN
SCALE: 1/8" = 1'-0"



1 3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"



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POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES, SEE SHEET NOTE 5. BUTTON SHALL ALSO CLOSE GAS AND WATER SOLENOID VALVES SERVING THIS ROOM. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY COUNTER MOUNT AGAINST BACKSPLASH. COORDINATE WITH ARCHITECT FOR FINISH. PROVIDE ALL PARTS FOR A COMPLETE SYSTEM.
8. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
9. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
10. PROVIDE POWER TO APPLIANCE. VERIFY EXACT NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE 4-GANG FLOOR BOX WIREMOLD EVOLUTION #RFB4. PROVIDE (2) DUPLEX RECEPTACLES AND 3/4" CONDUIT FOR POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRINGS FOR DATA. ROUTE UNDERSLAB TO NEAREST FULL HEIGHT WALL AND UP TO ACCESSIBLE CEILING PLENUM. DO NOT DAISY CONDUIT TO FLOOR BOXES.
12. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
13. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
14. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103D

3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103D
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/3/2025 6:58:23 PM

3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103E

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES, SEE SHEET NOTE 5. BUTTON SHALL ALSO CLOSE GAS AND WATER SOLENOID VALVES SERVING THIS ROOM. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY COUNTER MOUNT AGAINST BACKSPLASH. COORDINATE WITH ARCHITECT FOR FINISH. PROVIDE ALL PARTS FOR A COMPLETE SYSTEM.
8. AREA INDICATED TYPICAL DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
9. PROVIDE TYPICAL DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
10. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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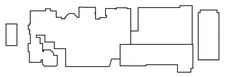

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61572
LICENSED PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103E

Plot Stamp:
12/3/2025 6:58:31 PM

3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103F

FOR BLUEBEAM LABELING/OCR:

0"

1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES, SEE SHEET NOTE 5. BUTTON SHALL ALSO CLOSE GAS AND WATER SOLENOID VALVES SERVING THIS ROOM. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #11 ON SHEET P6.03 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY COUNTER MOUNT AGAINST BACKSPLASH. COORDINATE WITH ARCHITECT FOR FINISH. PROVIDE ALL PARTS FOR A COMPLETE SYSTEM.
8. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
9. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
10. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
11. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
12. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

1 **3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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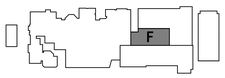


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

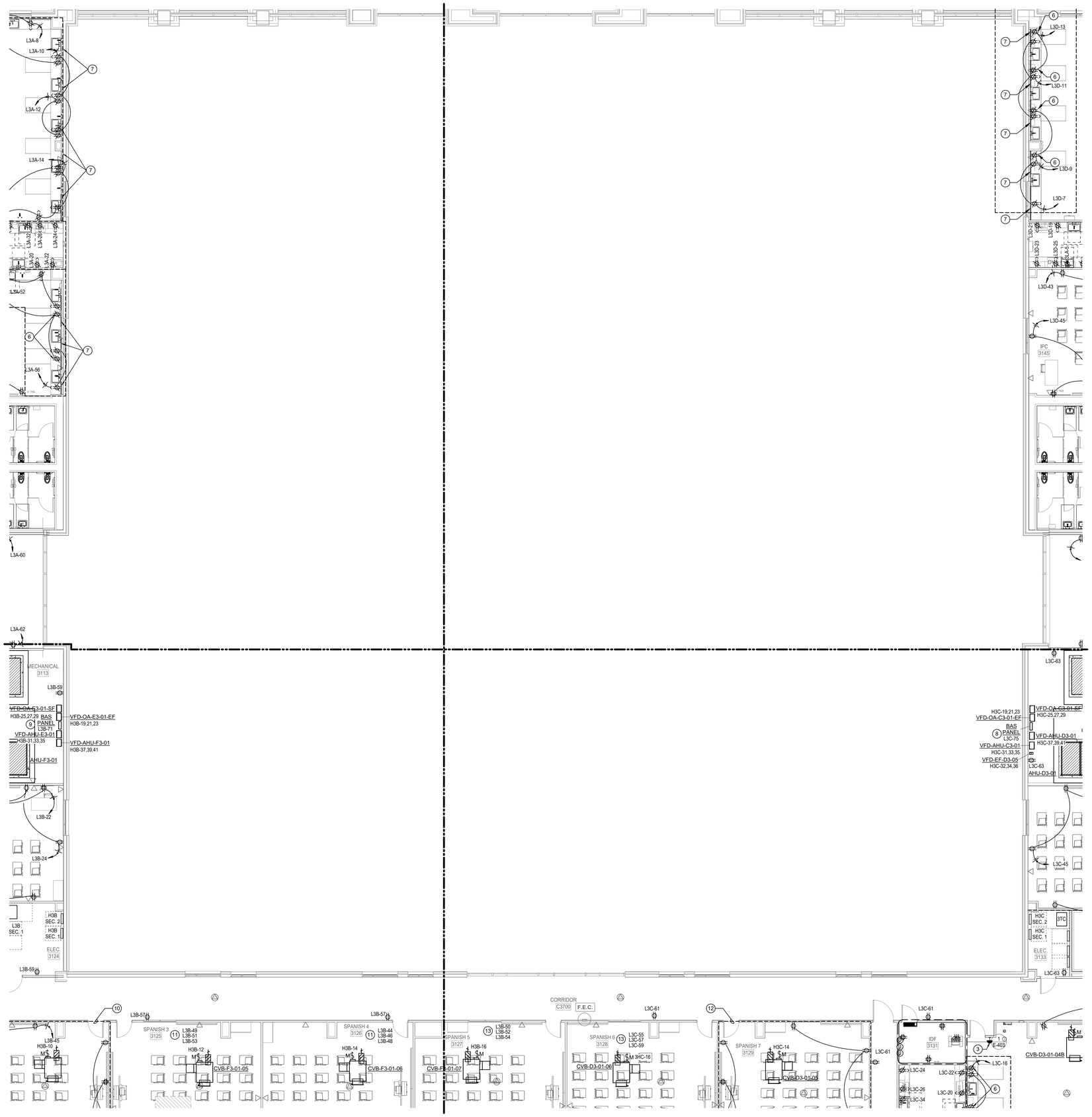
3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103F

3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103G

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
2. PROVIDE POWER TO CEILING MOUNTED FRONT ROW SYSTEM CONTROL BOX. COORDINATE WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX FOR POWER TO ELECTRIC HAND DRYER. VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN. POWER FOR BUILDING AUTOMATION SYSTEM. COORDINATE EXACT LOCATION WITH MECHANICAL/CONTROLS PRIOR TO ROUGH-IN.
4. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION..
5. PROVIDE CONDUIT STUB UP TO OUTLET MOUNTED IN CASEWORK. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR. POWER TO TV, COORDINATE EXACT MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR. CONDUIT STUB-UP. PROVIDE (2) 1" CONDUIT IN SLAB FROM NEAREST FULL HEIGHT WALL.
7. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
8. PROVIDE POWER TO MOTORIZED BACKBOARD. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE KEYED SWITCH FOR CONTROL OF EACH GOAL.
9. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
10. PROVIDE POWER TO COPIER. VERIFY EXACT NEMA CONFIGURATION WITH COPIER MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE 4-GANG FLOOR BOX WIREMOLD EVOLUTION #RFB4. PROVIDE (2) DUPLEX RECEPTACLES AND 3/4" CONDUIT FOR POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRINGS FOR DATA; ROUTE UNDERSLAB TO NEAREST FULL HEIGHT WALL AND UP TO ACCESSIBLE CEILING PLENUM. DO NOT DAISY CONDUIT TO FLOOR BOXES.
12. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR.

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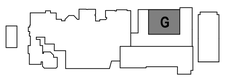


KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103G

Plot Stamp:
12/3/2025 6:58:42 PM

0"
1"

1ST FLOOR LIGHTING PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
E-201

FOR BLUEBEAM LABELING/OCR:

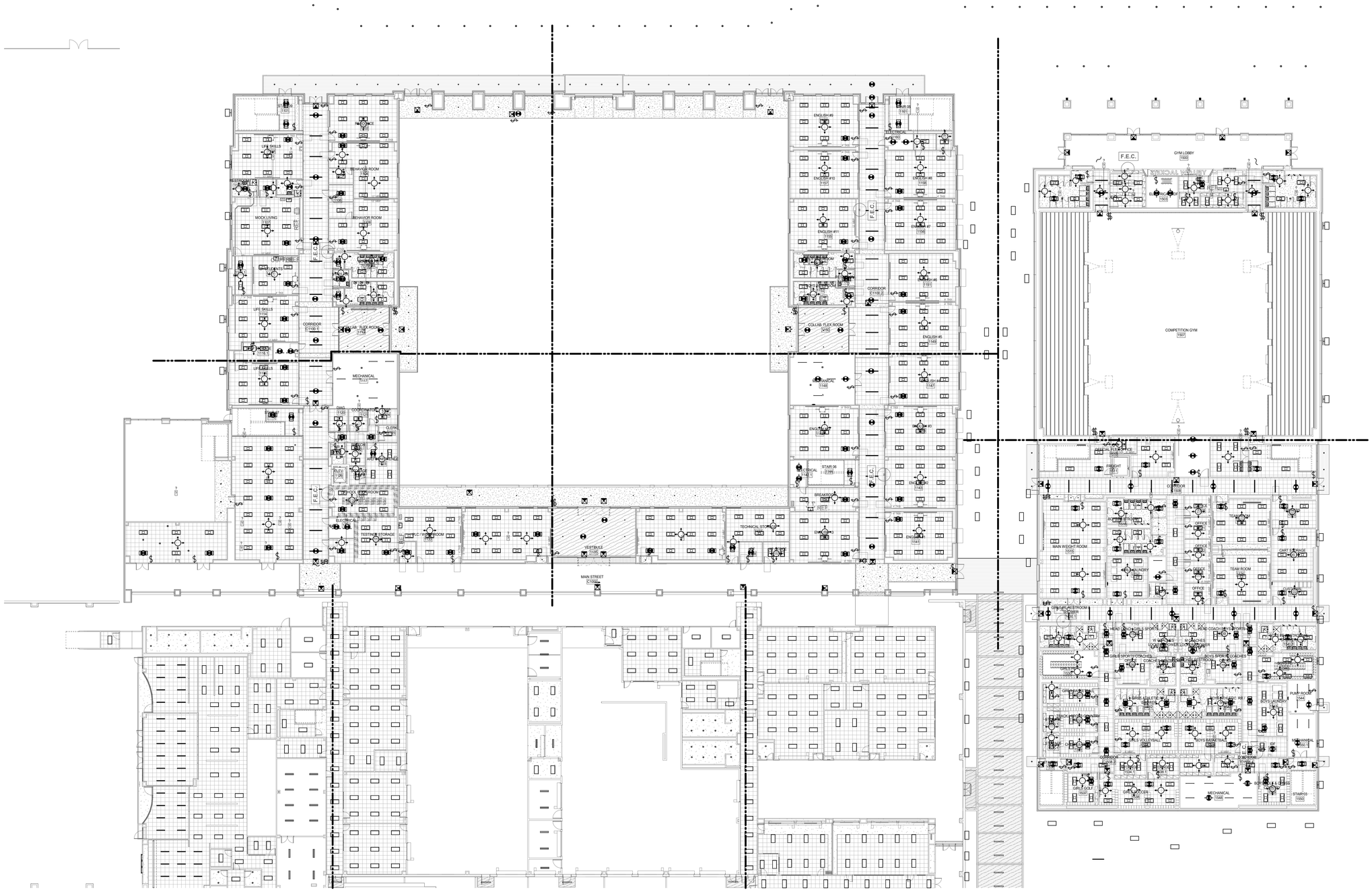
LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ¾"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.


MAIN STREET
C1100.1
F.E.C.
CORRIDOR
C1100.2
COLLAB. FLEX ROOM
1150
MECHANICAL
1117
ENGLISH #6
1152
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BEHAVIOR ROOM
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LIFE SKILLS
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LIFE SKILLS
1109
MOCK LIVING
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RESTROOM
1111
RESTROOM
1112
CORRIDOR
C1100.3
CORRIDOR
C1100.4
VESTIBULE
1135
TECHNICAL STORAGE
1136
ELECTRICAL
1137
TESTING STORAGE
1138
DMC COORDINATOR
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CLERK
1140
ART & SCIENCE
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STAIR 06
1144
STAIR 08
1161
ELEVATOR
1160
GYM LOBBY
1505
COMPETITION GYM
1507
CORRIDOR
1506
OFFICE
1502
TEAM ROOM
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CART STORAGE
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MAIN WEIGHT ROOM
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WEIGHT ROOM
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LOCKER ROOM
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LOCKER ROOM
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GIRLS SOCCER
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GIRLS VOLLEYBALL
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BOYS BASKETBALL
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GIRLS LOCKER
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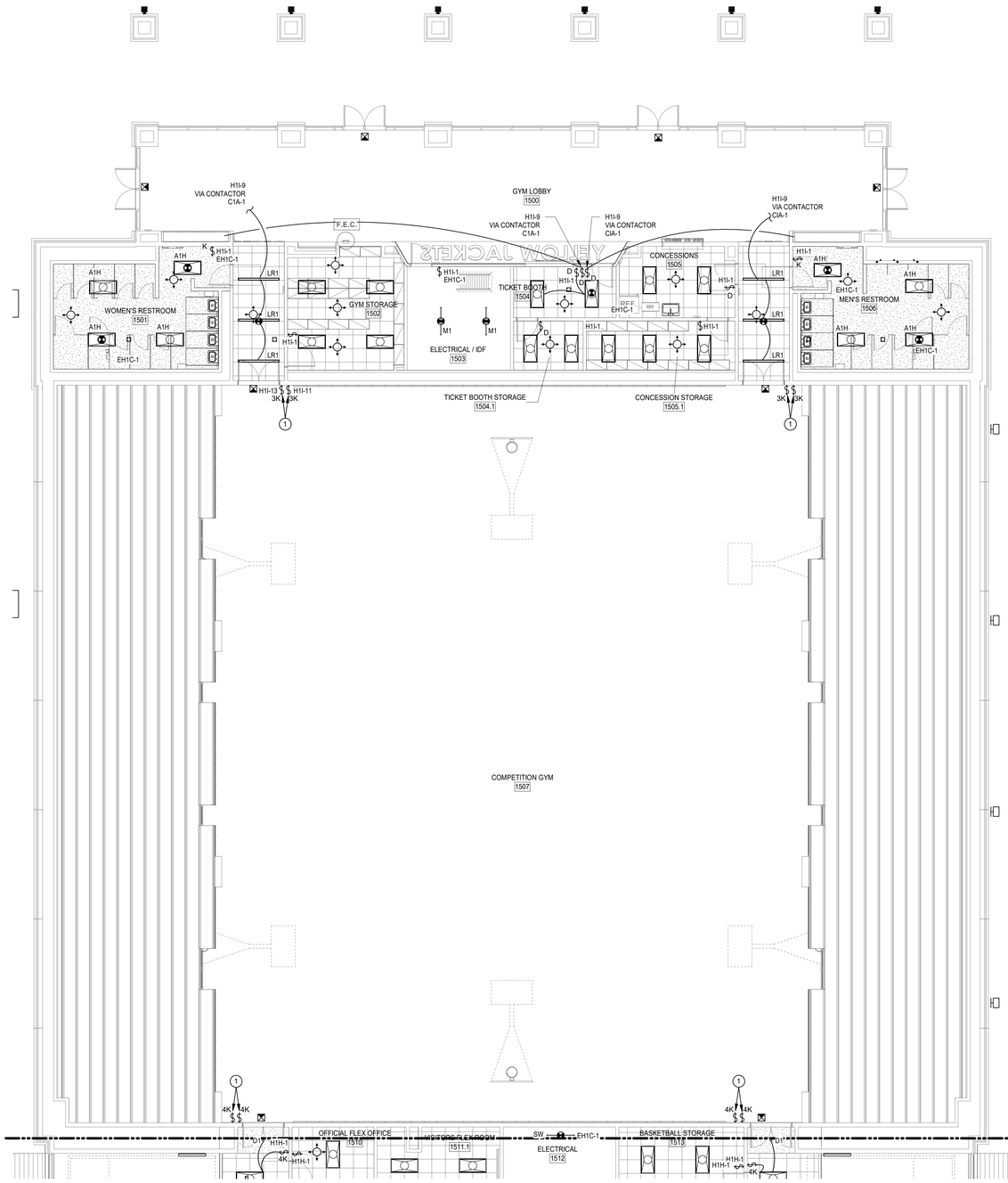
1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-201A

FOR BLUEBEAM LABELING/DOCR:

0"
1"



1 1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA. SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

LIGHTING PLAN KEYED NOTES

(1) LOCAL SWITCH FOR LIGHTING IN THIS SPACE. REFER TO E-202A FOR ADDITIONAL INFORMATION.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

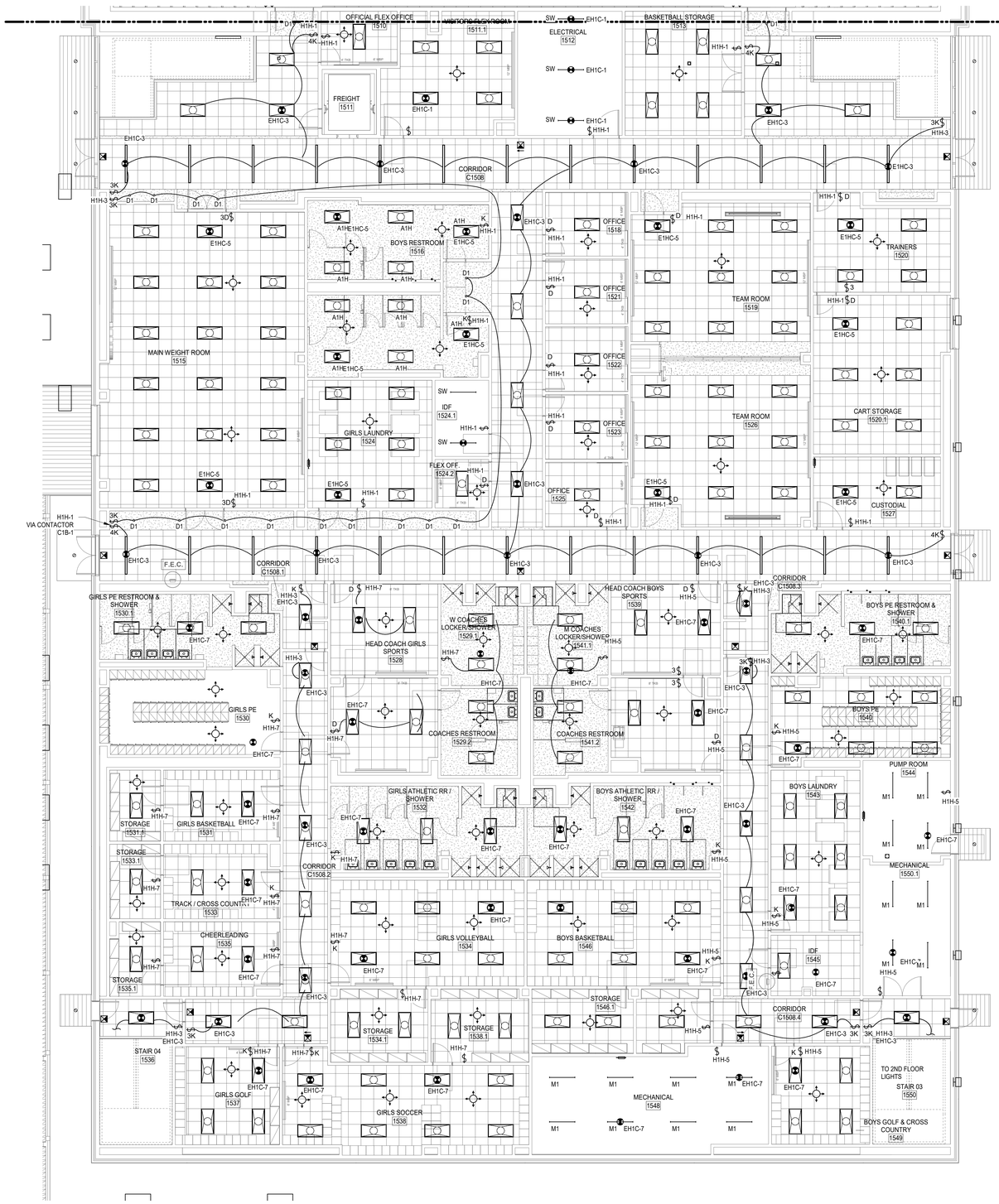
E-201A

Plot Stamp:
12/3/2025 6:59:10 PM

1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-201B

FOR BLUEBEAM LABELING/OCR:

0"
1"



LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ¾"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

1 **1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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1000 Keene St.
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STATE OF TEXAS
DONALD C. RICHARDS
61572
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-201B

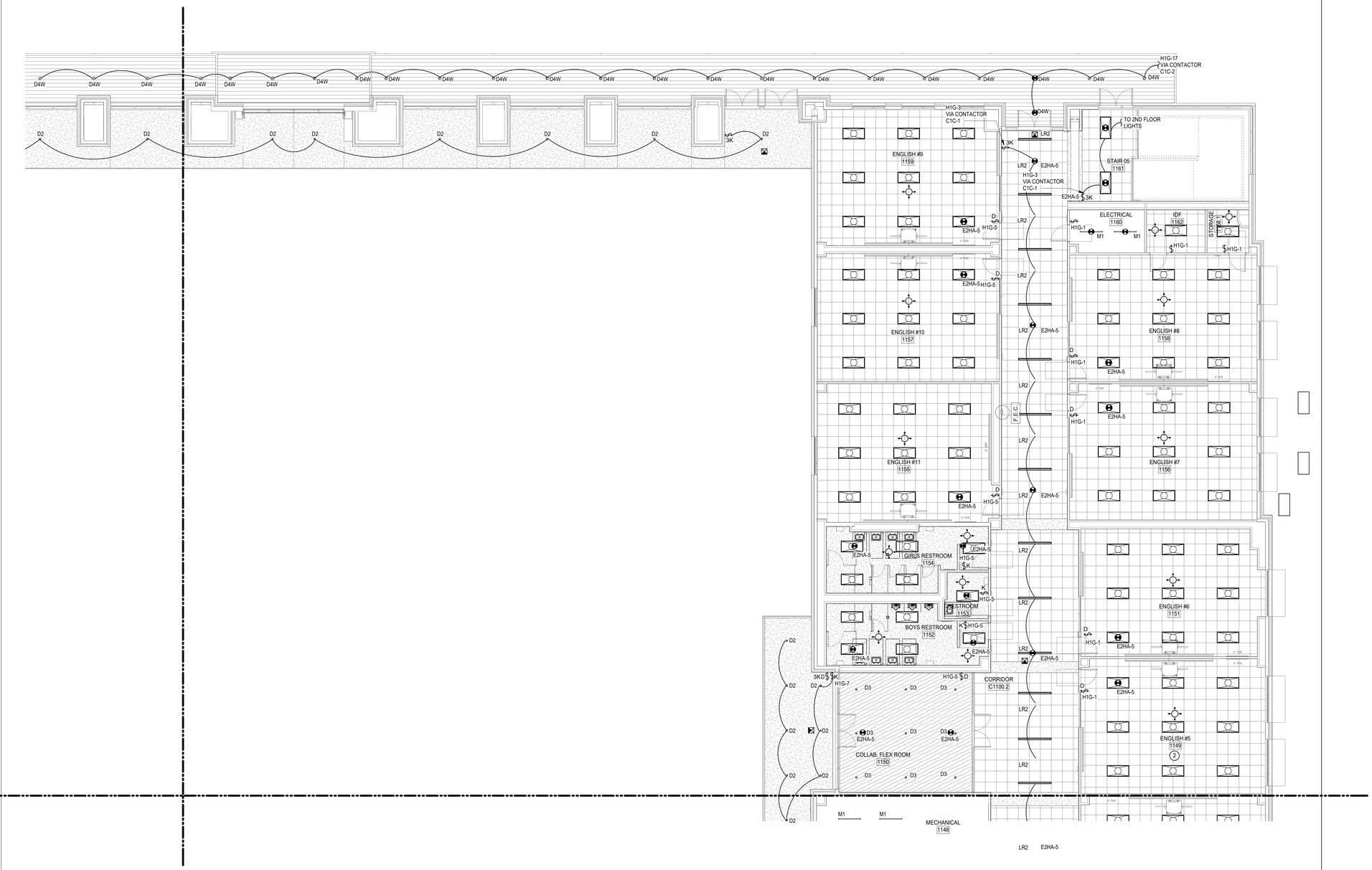
Plot Stamp:
12/3/2025 6:59:15 PM

1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201C

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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C

KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61524
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201C

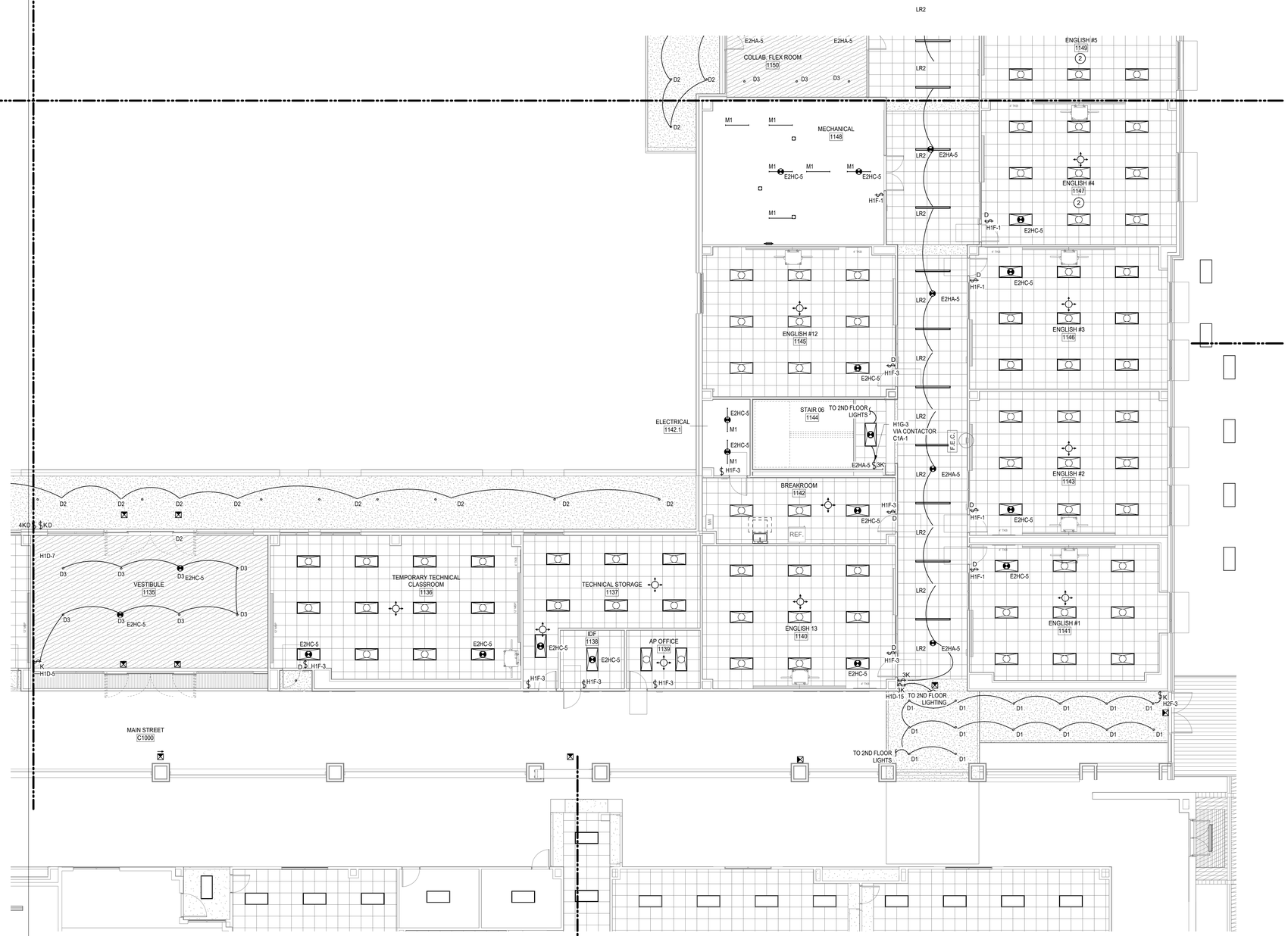
Plot Stamp:
12/3/2025 6:59:16 PM

0"
1"

1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201D

FOR BLUEBEAM LABELING/OCR:



1 **1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 6:59:17 PM

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
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December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

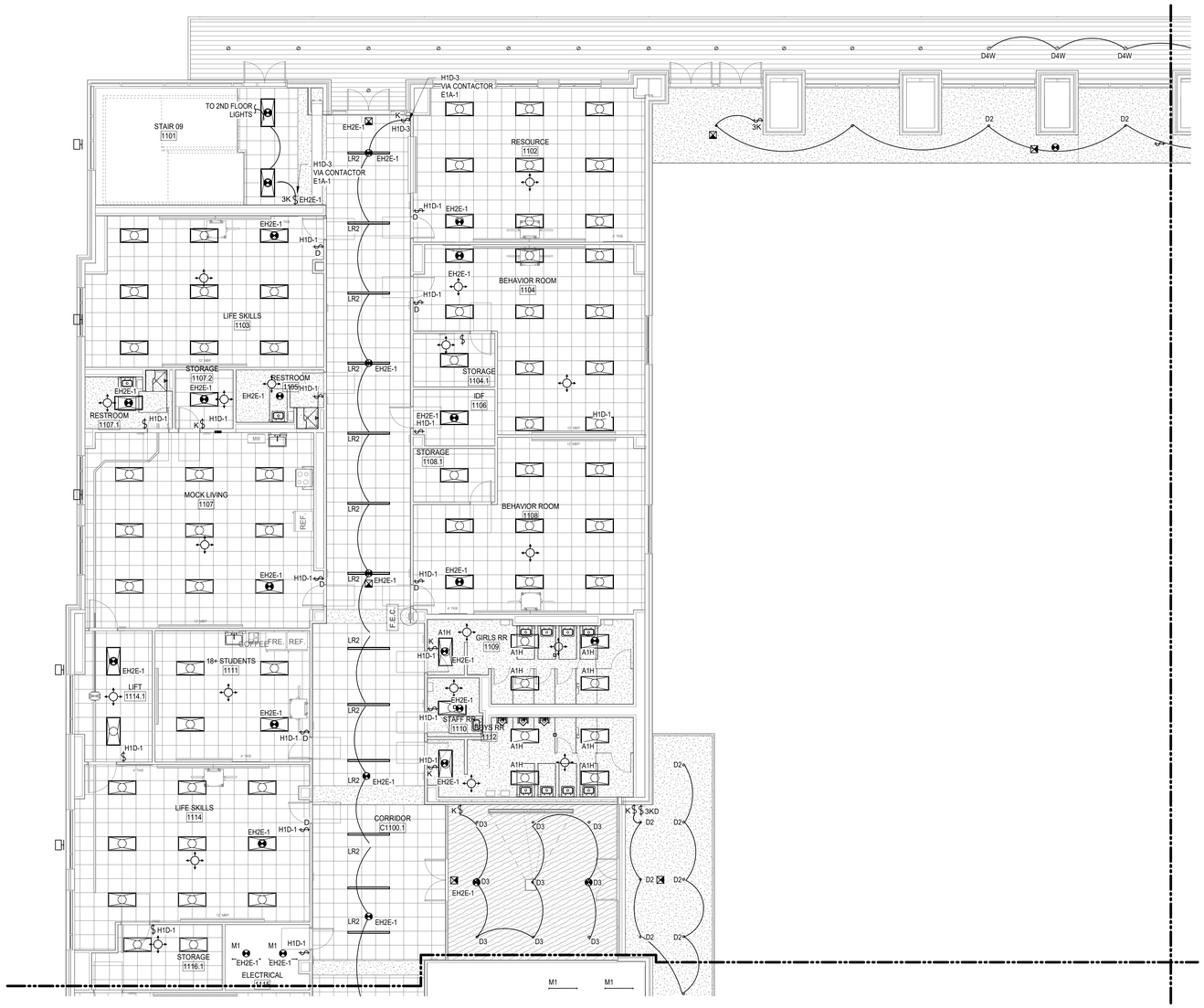
E-201D

0"
1"

1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201E

FOR BLUEBEAM LABELING/OCR:



1 **1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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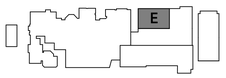

KEY PLAN
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LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
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F-16672

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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

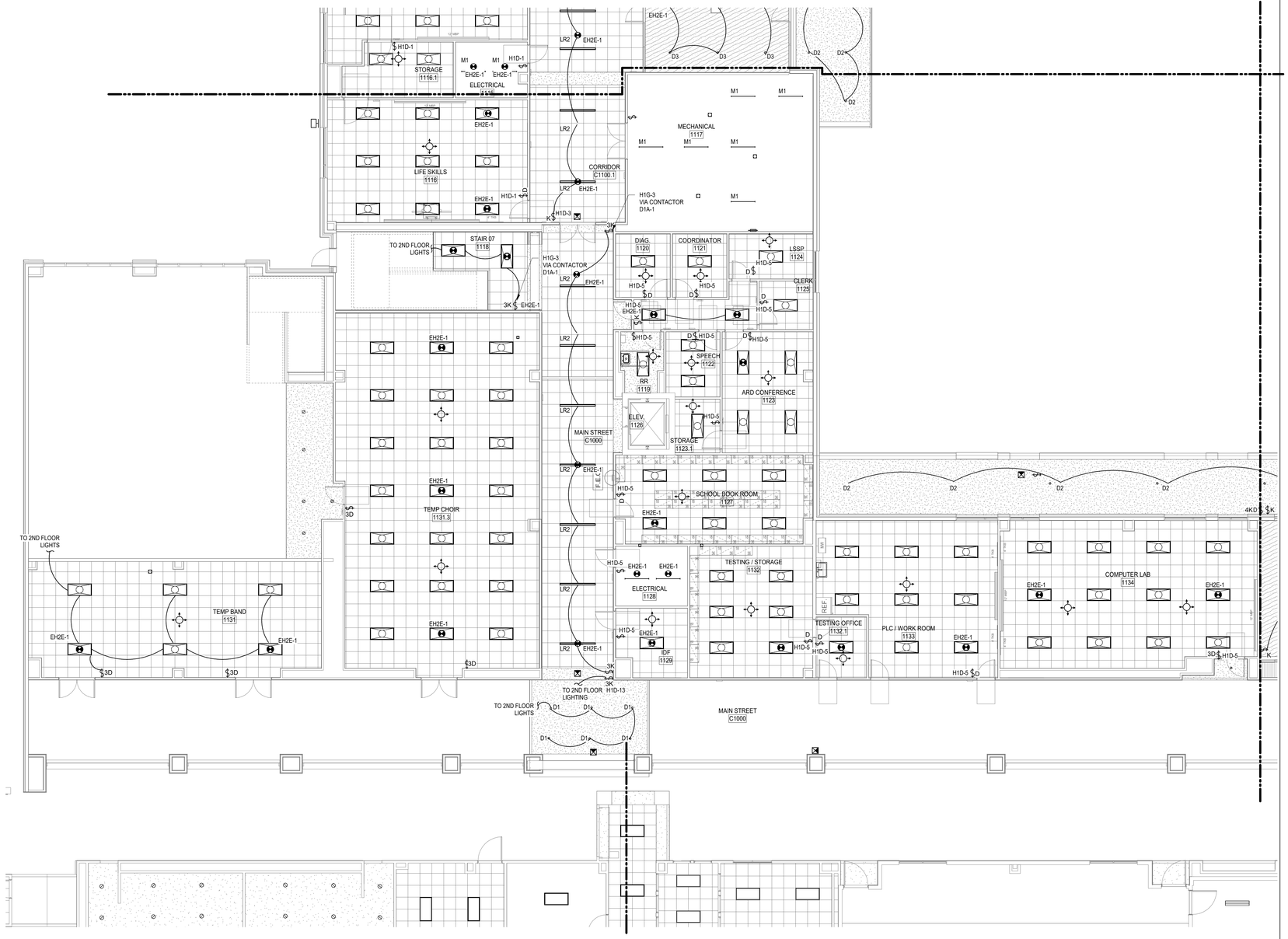
E-201E

Plot Stamp:
12/3/2025 6:59:18 PM

0"
1"

1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN - E-201F

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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Galena Park ISD

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PROFESSIONAL
ENGINEER
December 5, 2025
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F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

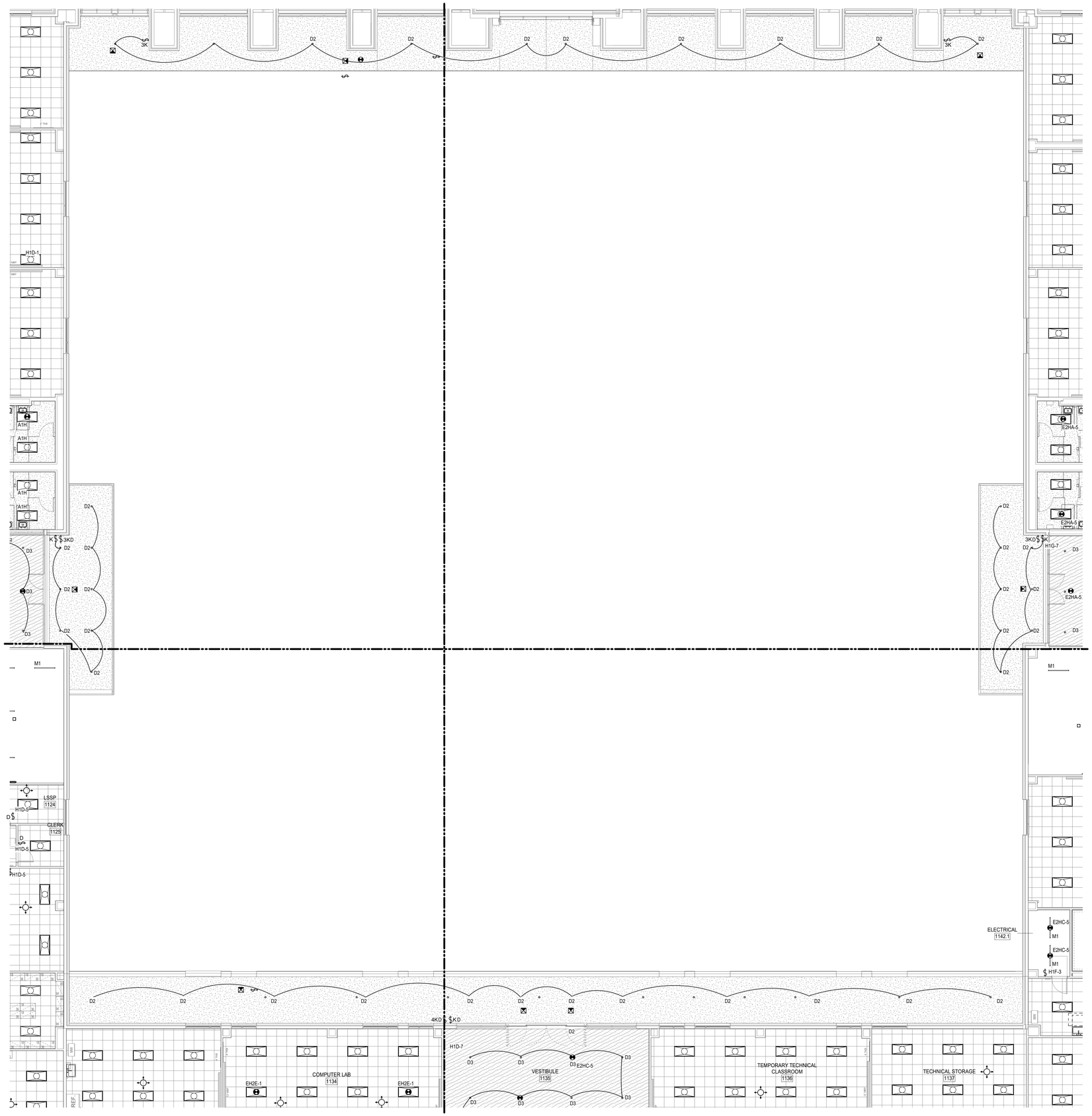
E-201F

Plot Stamp:
12/3/2025 6:59:19 PM

1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN E-201G

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 **1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

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DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201G

Plot Stamp:
12/3/2025 6:59:19 PM

0"
1"

2ND FLOOR LIGHTING PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

E-202

FOR BLUEBEAM LABELING/OCR:

LIGHTING PLAN GENERAL NOTES

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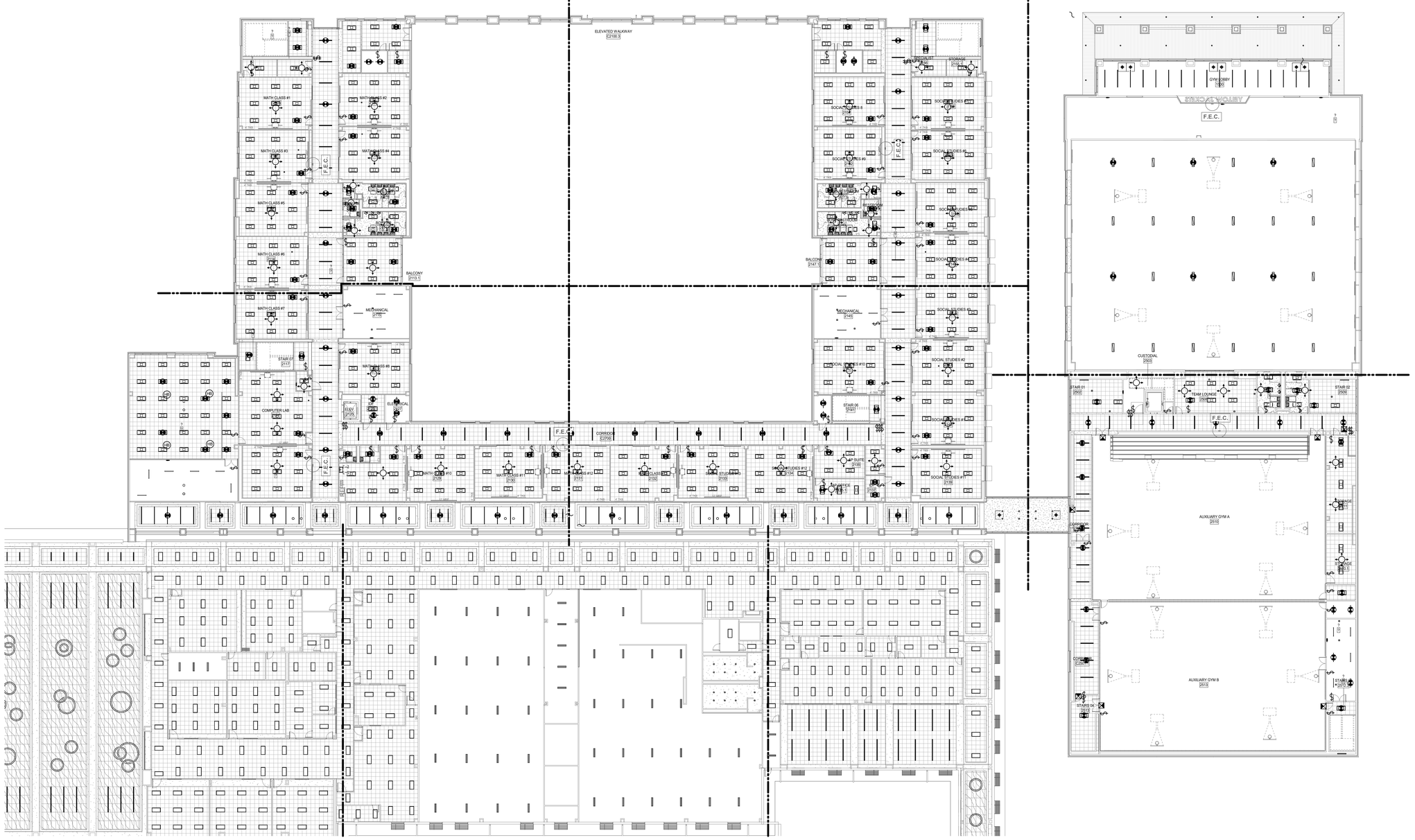

1 **2ND FLOOR LIGHTING PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN**
SCALE: 1" = 20'-0"

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DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

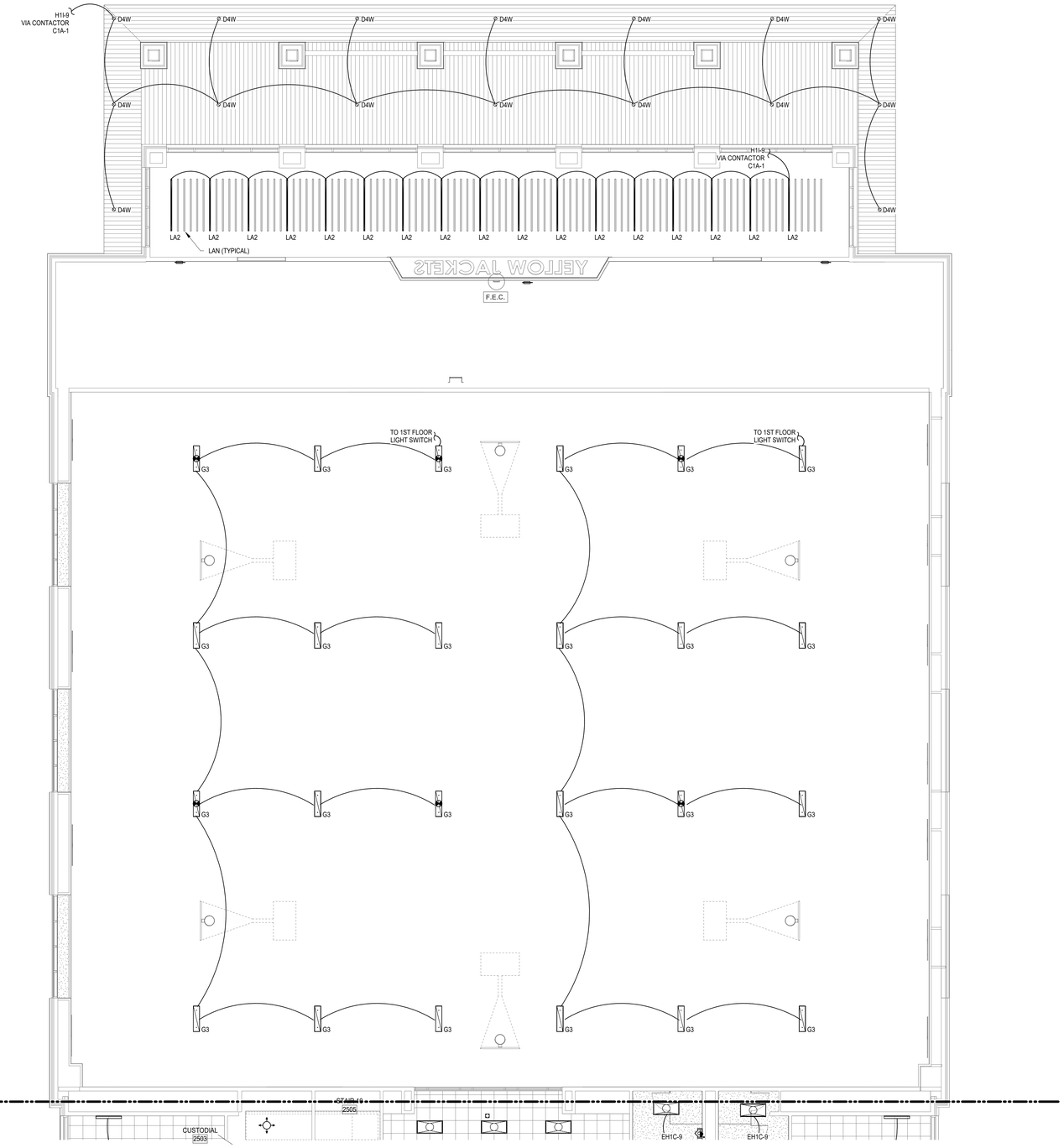
E-202

Plot Stamp:
12/3/2025 6:59:25 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-202A

FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

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HOUSTON, TX
713-366-0808

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

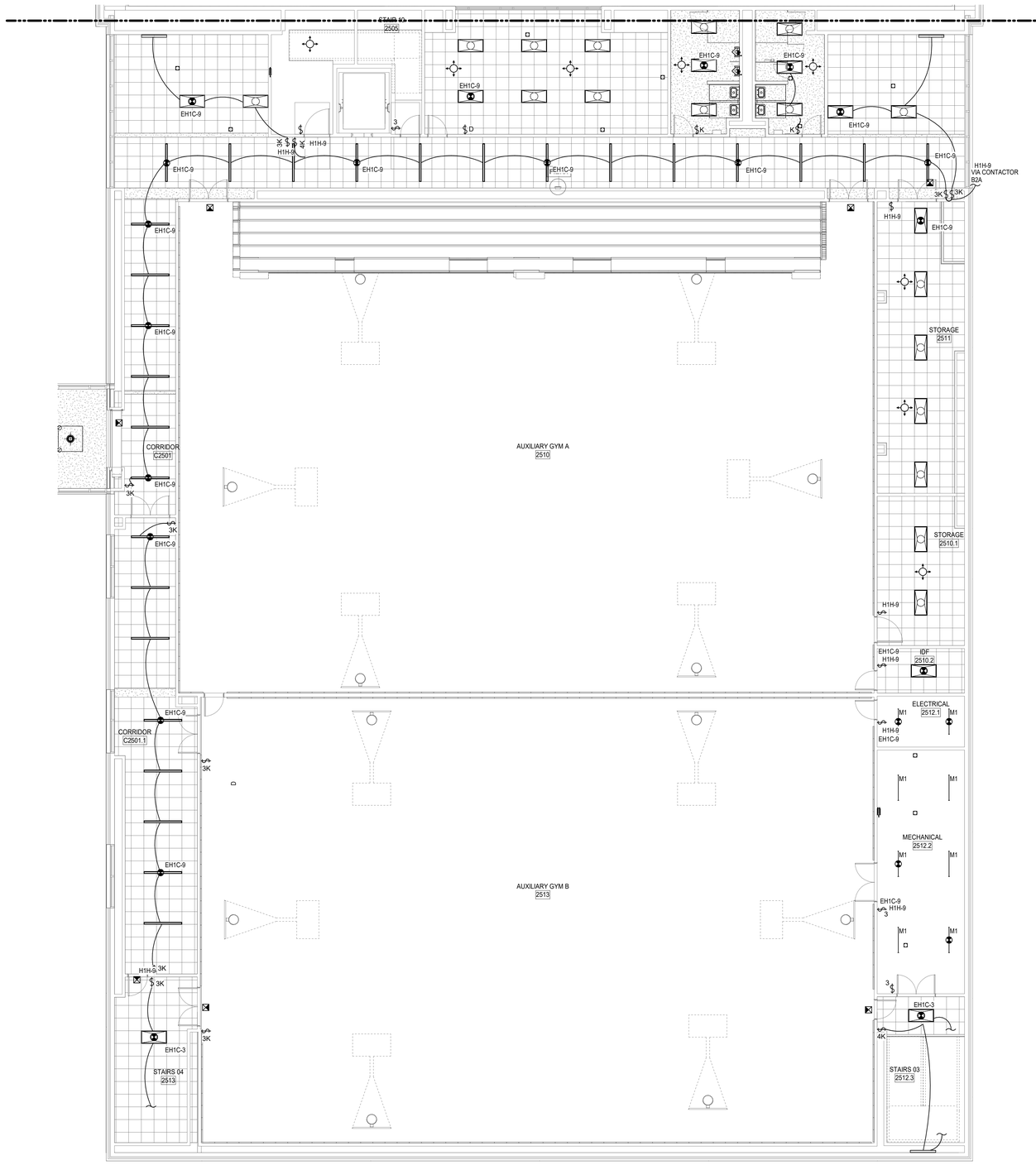
2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

E-202A

Plot Stamp:
12/3/2025 6:59:26 PM

2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-202B
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 **2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

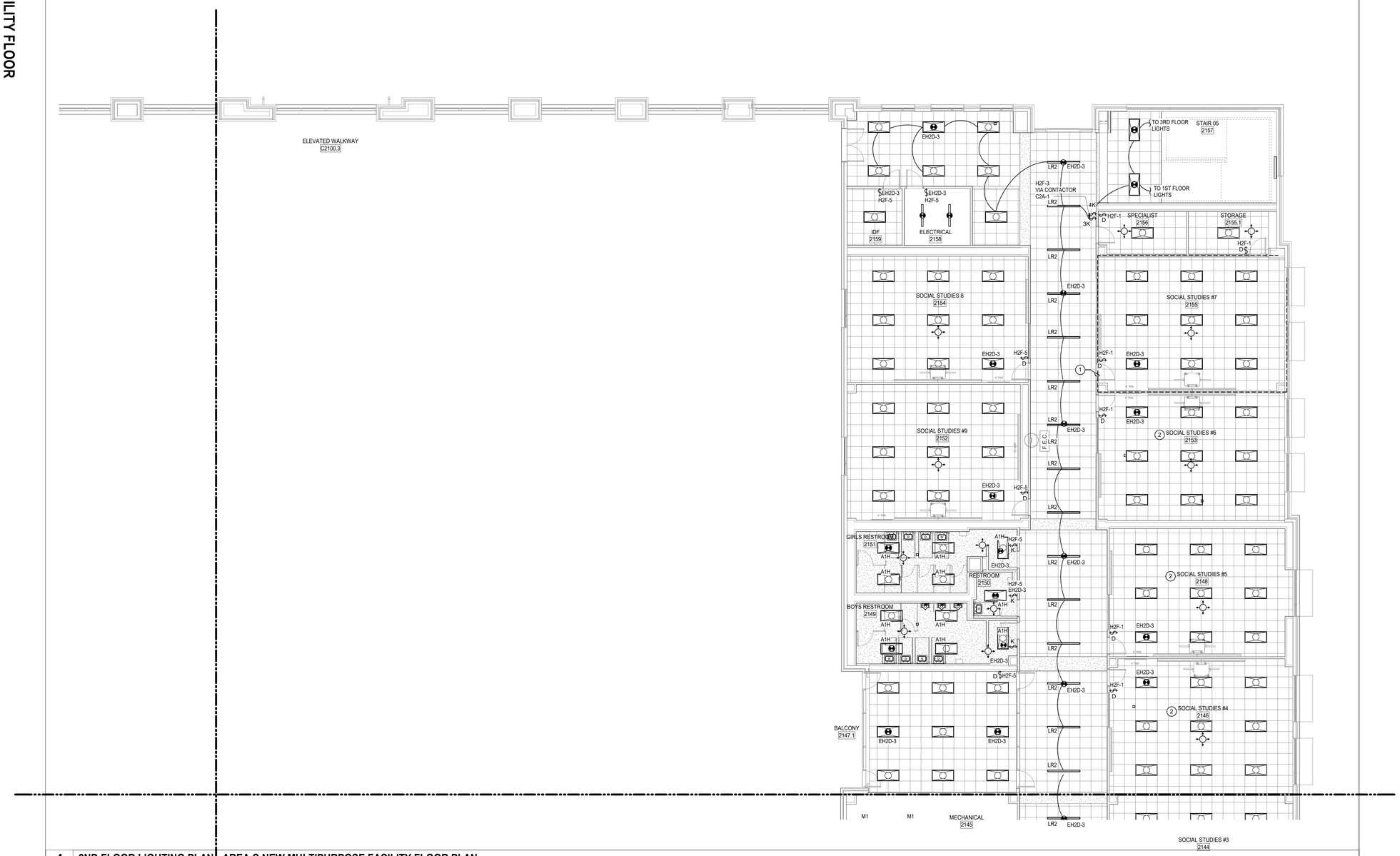
CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-202B

Plot Stamp:
12/3/2025 6:59:28 PM

2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202C
FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

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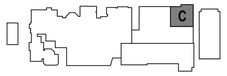

KEY PLAN
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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

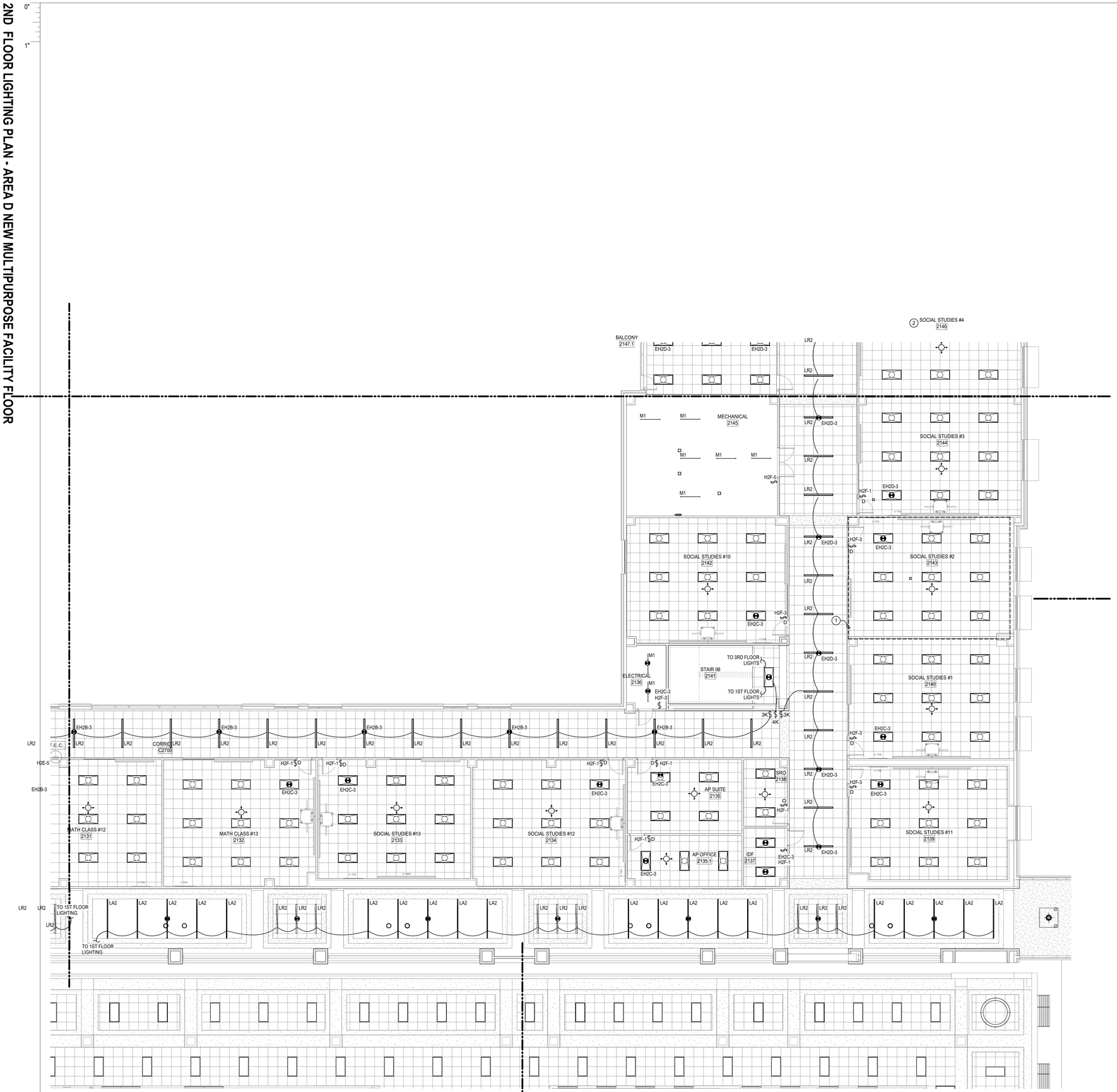
E-202C

Plot Stamp:
12/3/2025 6:59:30 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202D

FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

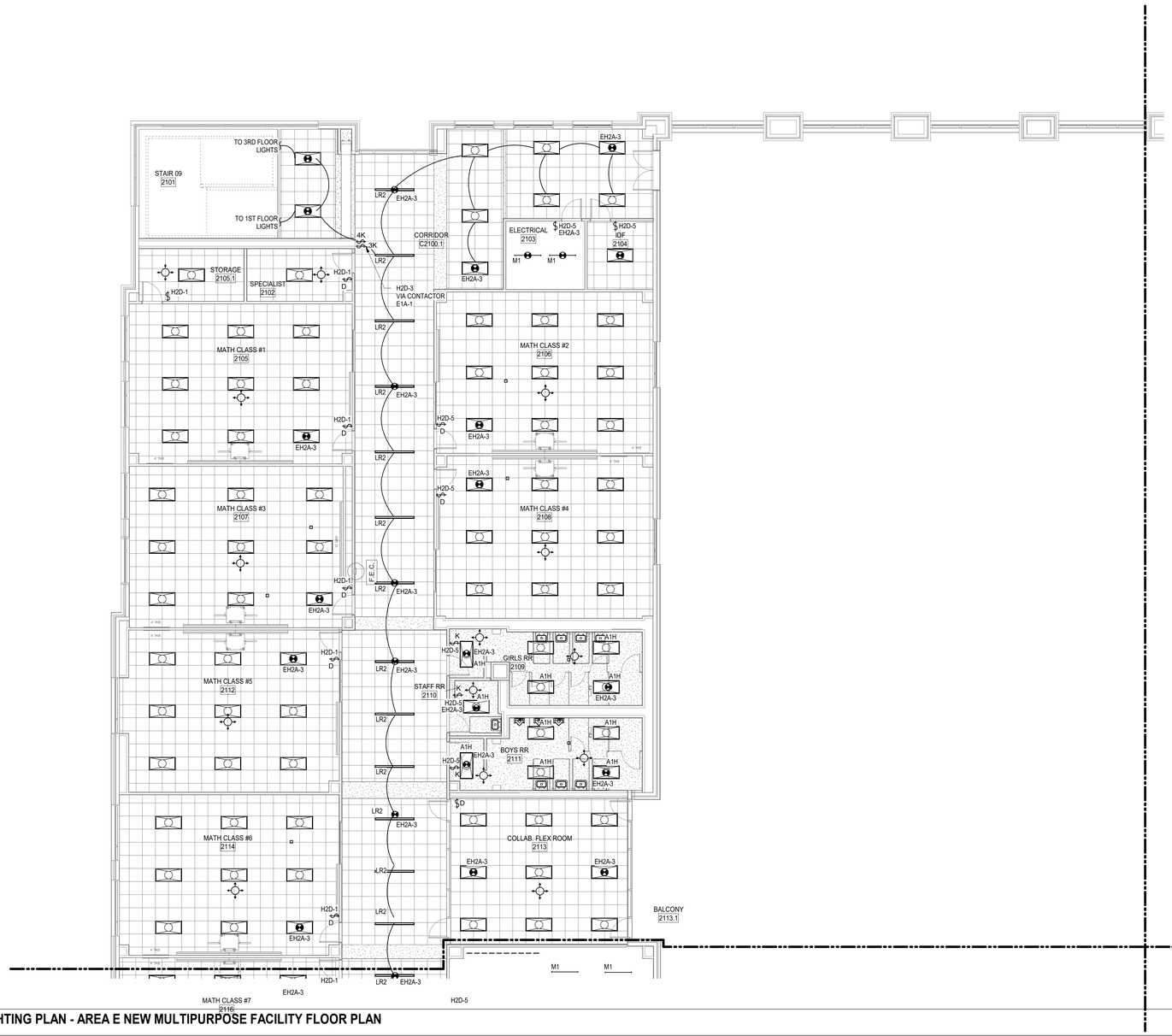
E-202D

Plot Stamp:
12/3/2025 6:59:31 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202E

FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-202E

Plot Stamp:
12/3/2025 6:59:32 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-202F

FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park ISD

F

KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

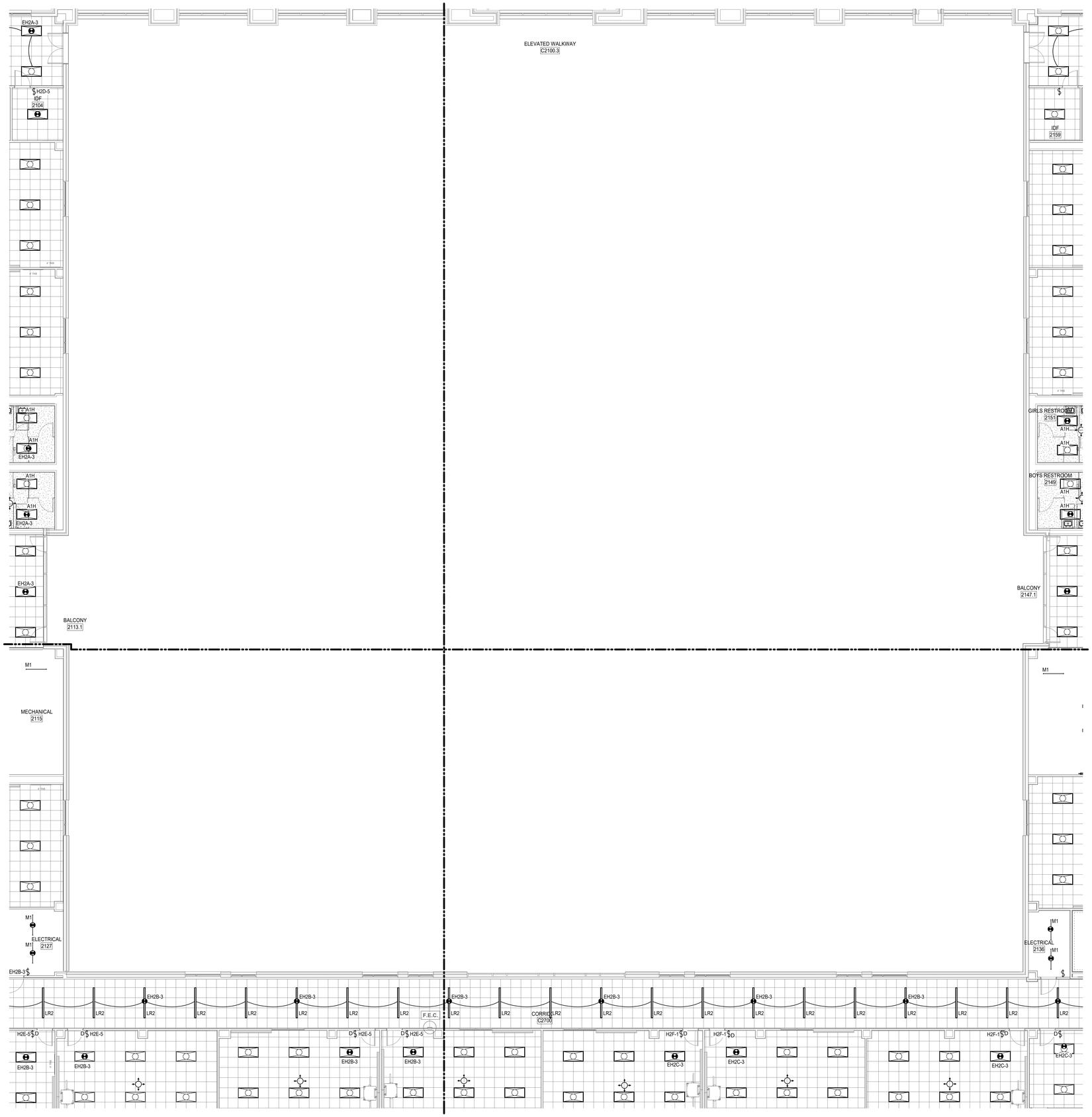
E-202F

Plot Stamp:
12/3/2025 6:59:34 PM

2ND FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202G

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 **2ND FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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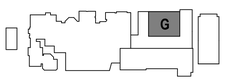


KEY PLAN

NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

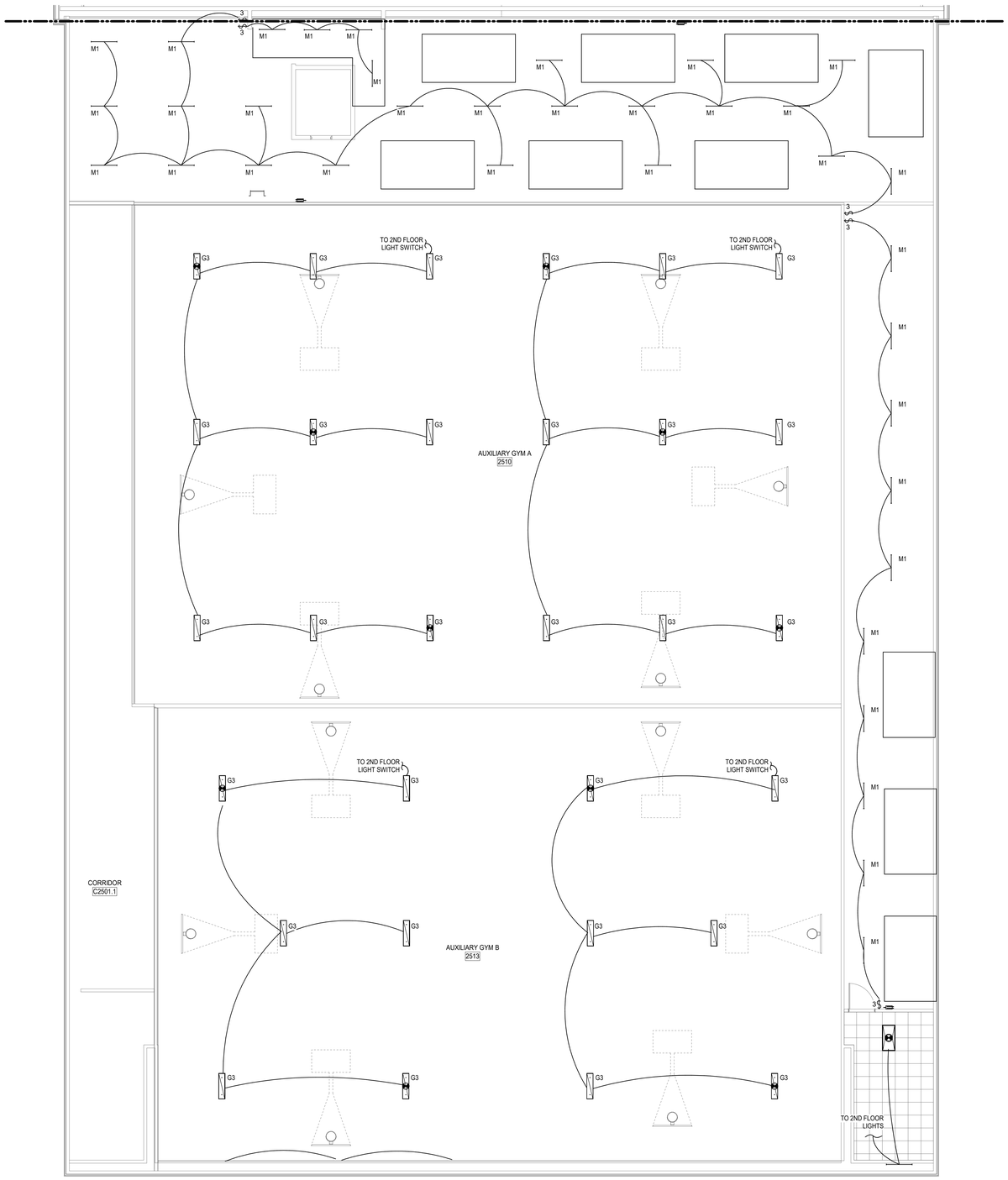
CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-202G

Plot Stamp:
12/3/2025 6:59:36 PM

3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-203B
FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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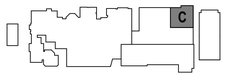


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-203B

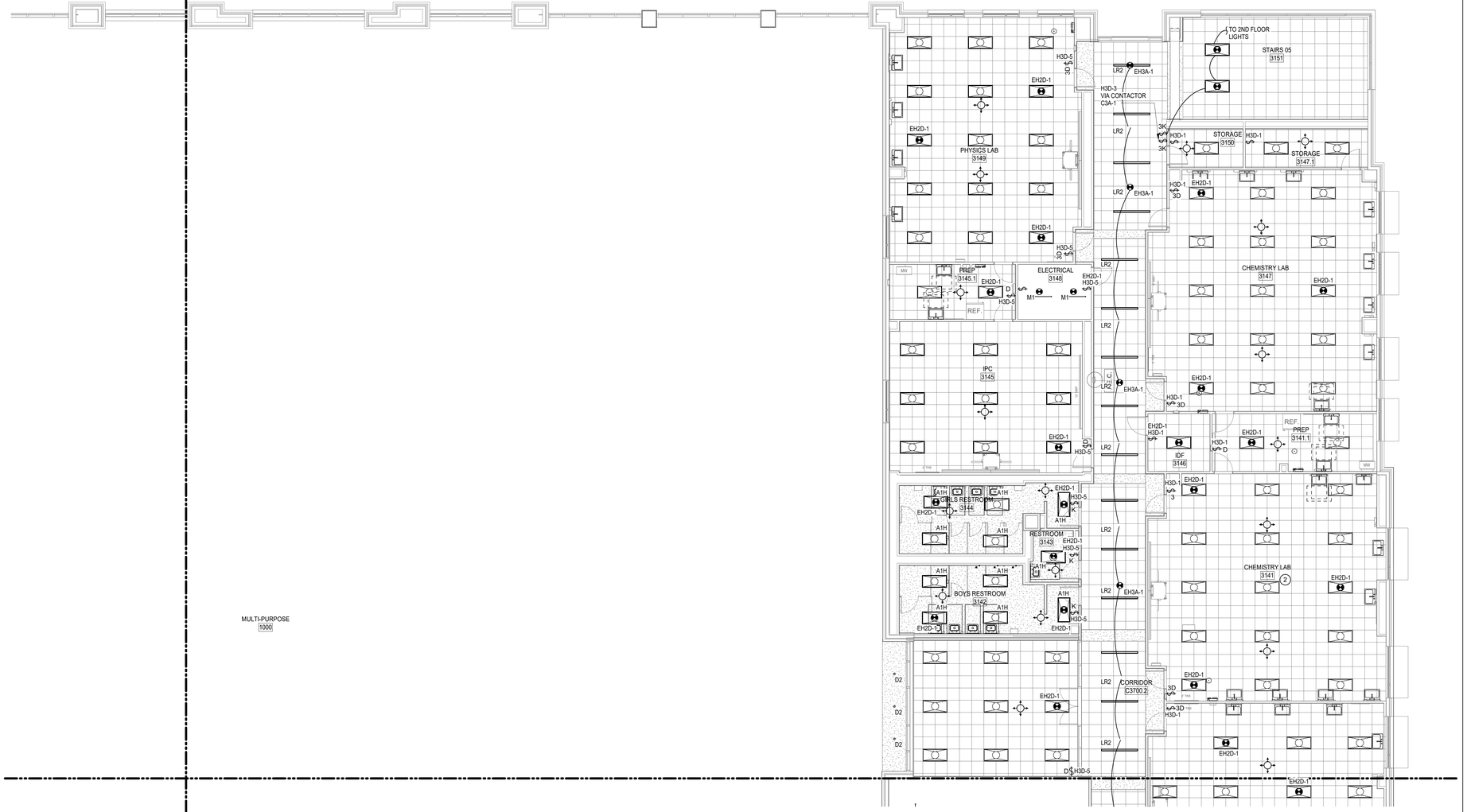
Plot Stamp:
12/3/2025 6:59:37 PM

0"
1"

3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203C

FOR BLUEBEAM LABELING/OCR:



LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ¾"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

1 **3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

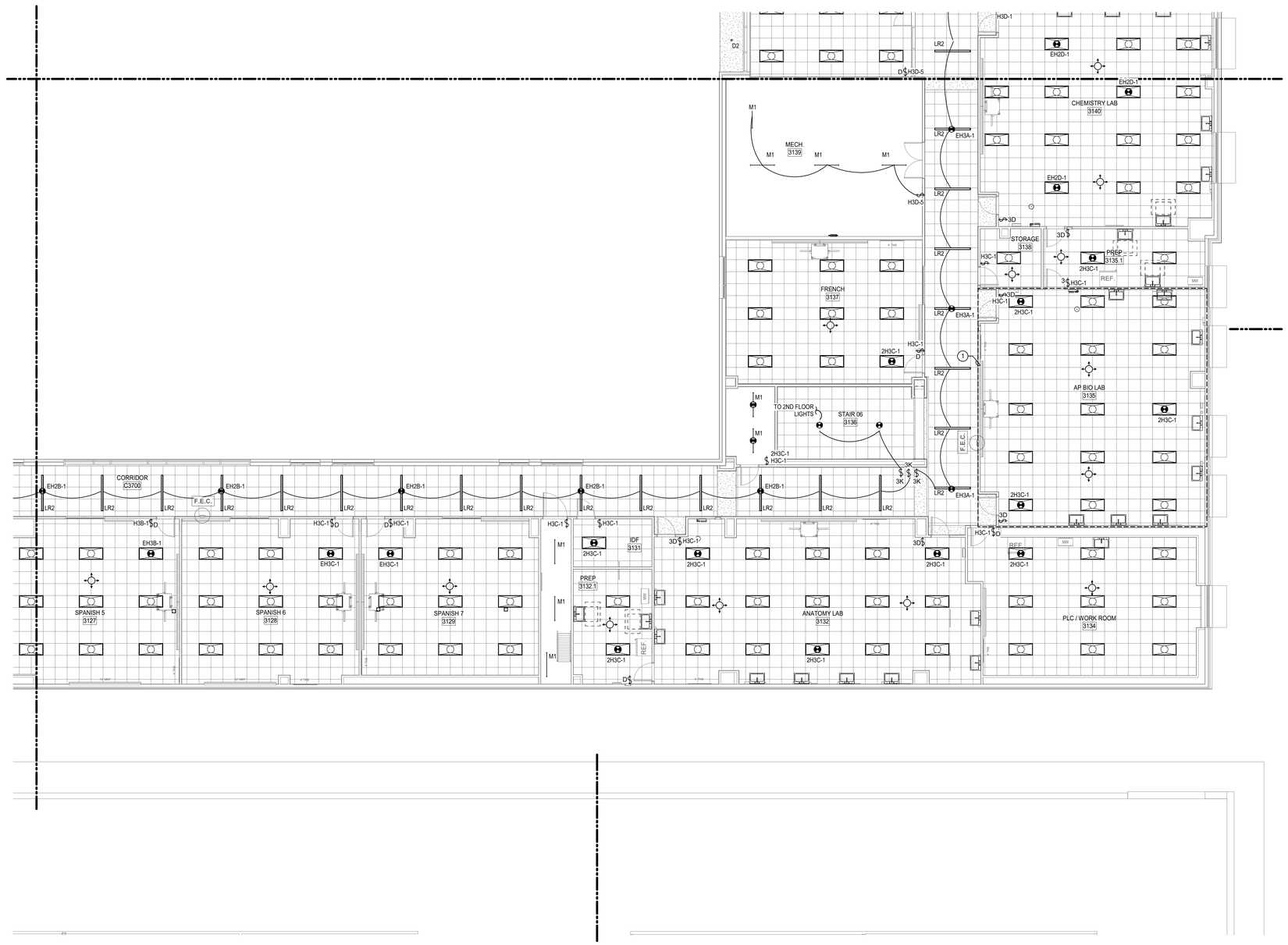
CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203C

0"
1"

2 LIGHTING MECH ROOM PLAN
SCALE: 1/8" = 1'-0"



1 3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203D

3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203D
FOR BLUEBEAM LABELING/OCR:

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0"
1"

3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203E

FOR BLUEBEAM LABELING/OCR:



1 **3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203E

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0"
1"

3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203F

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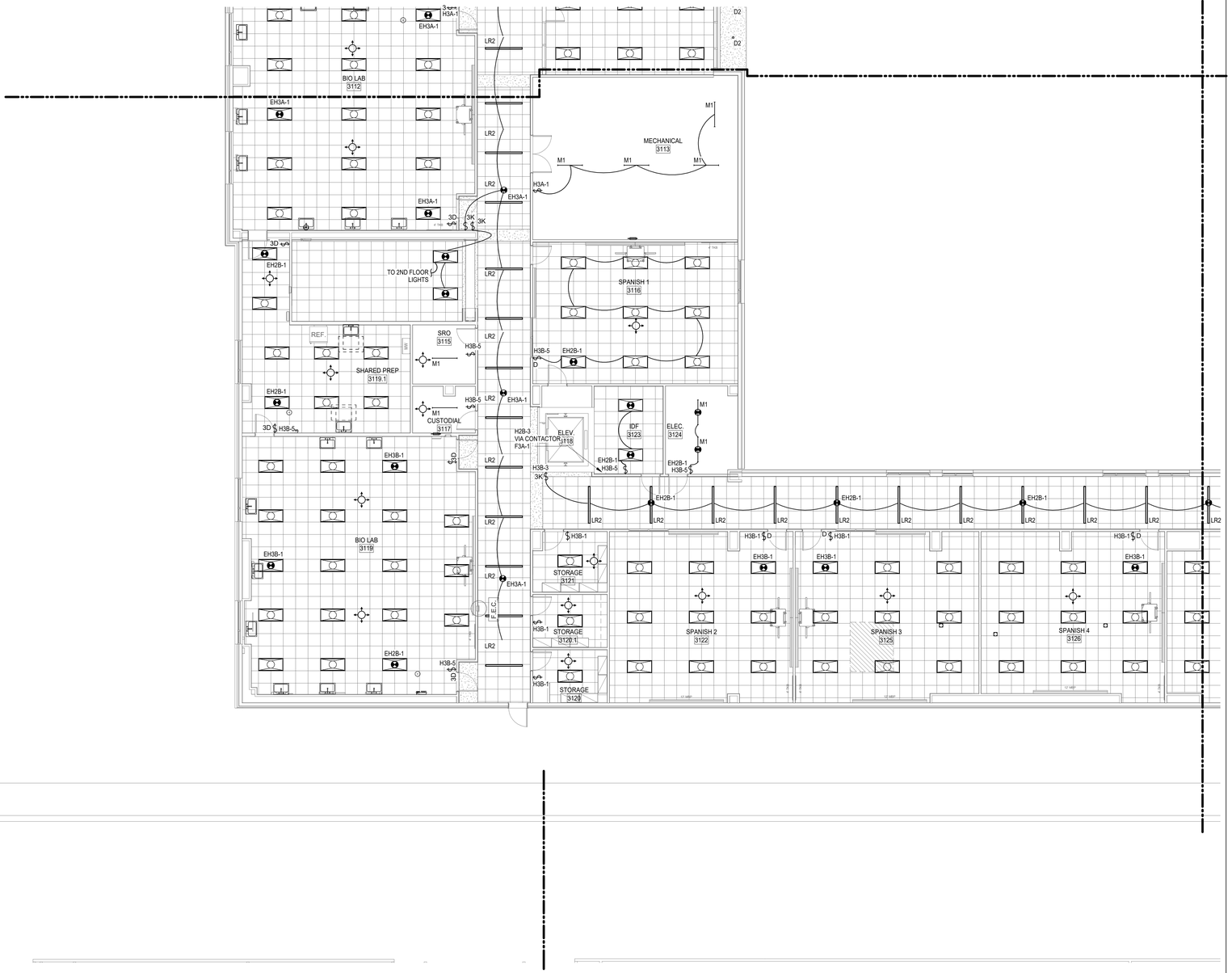

1 **3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

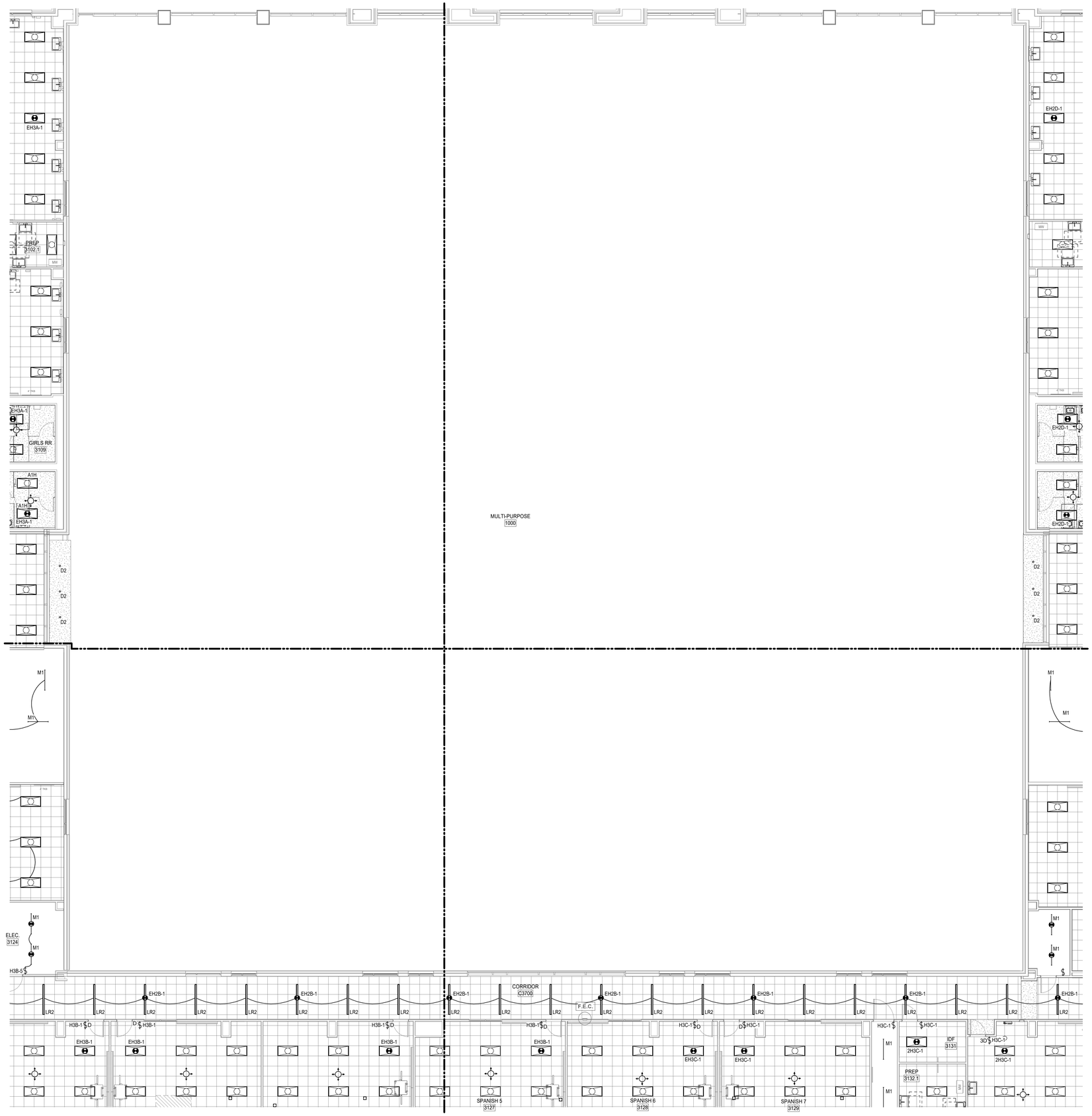
E-203F

Plot Stamp:
12/3/2025 6:59:43 PM

3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN E-203G

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

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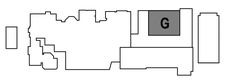

KEY PLAN

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DRAWING HISTORY

No.	Description	Date

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DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203G

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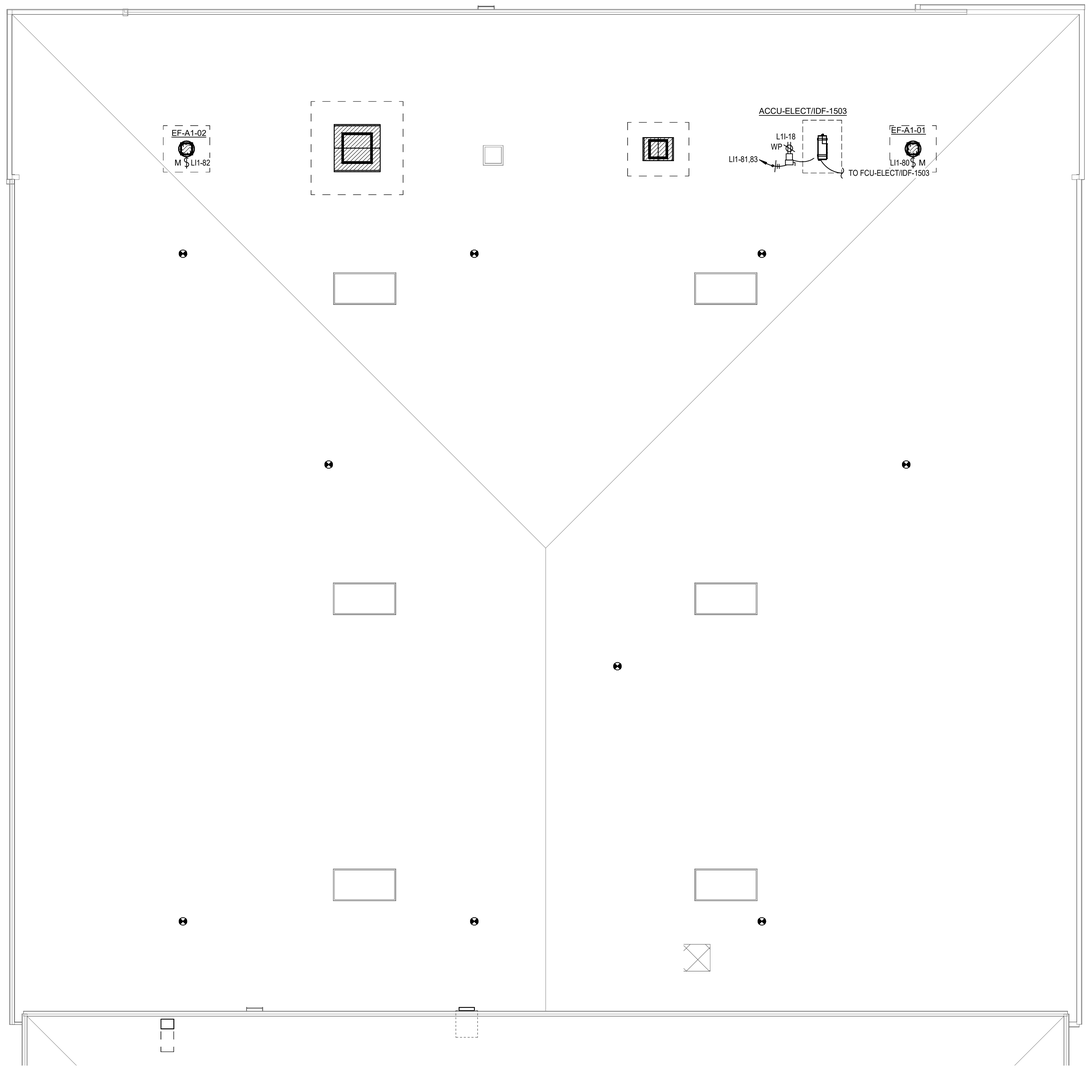
ELECTRICAL ROOF PLAN - AREA A NEW GYM FLOOR PLAN
E-301A
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 **ELECTRICAL ROOF PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL ROOF PLAN - AREA A NEW GYM FLOOR PLAN

E-301A

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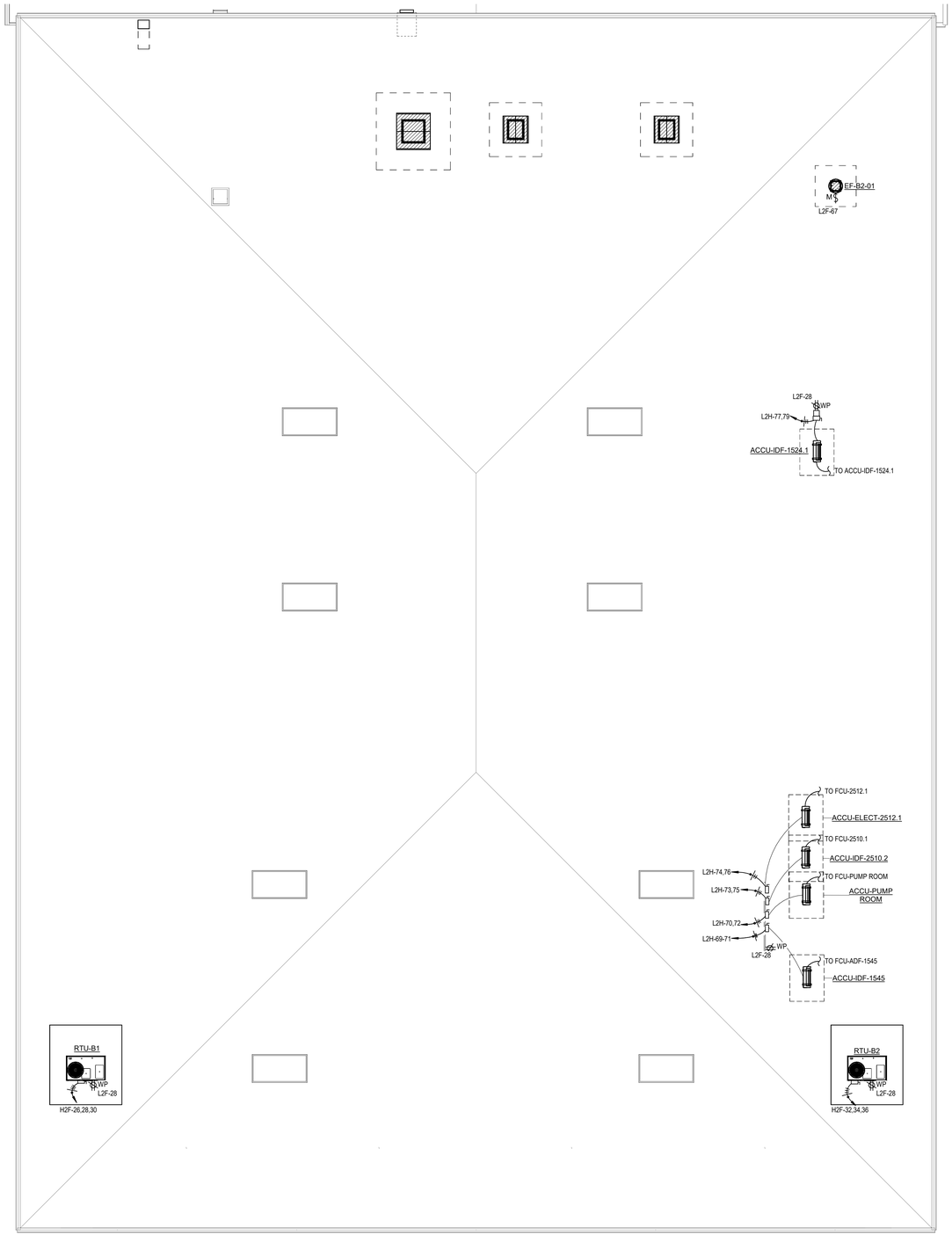
ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN
E-301B
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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DRAWING HISTORY

No.	Description	Date

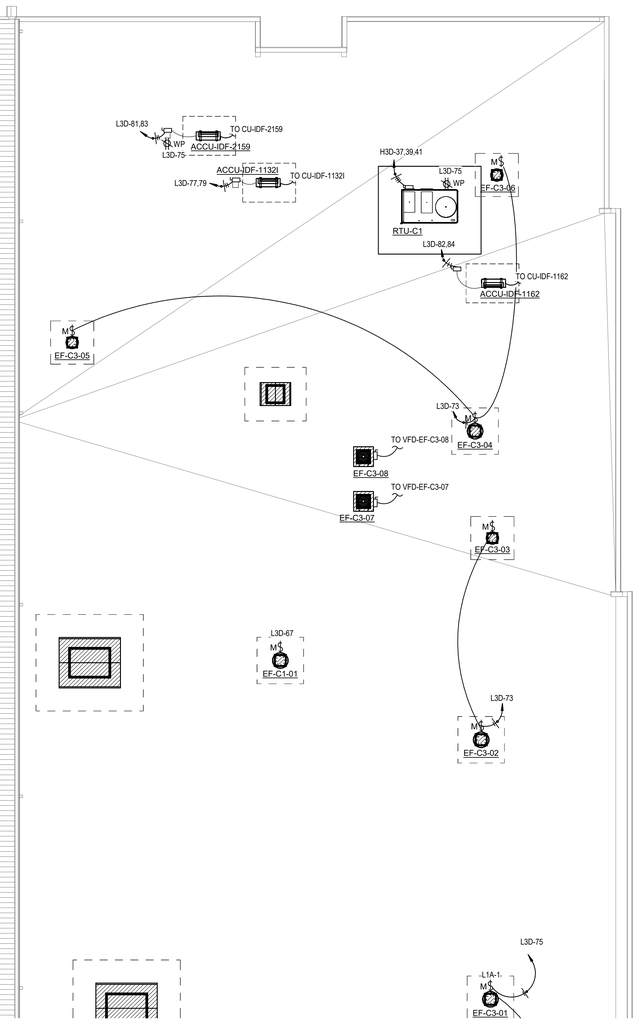
CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN

E-301B

0"
1"

ELECTRICAL ROOF PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301C
FOR BLUEBEAM LABELING/OCR:



1 ELECTRICAL ROOF PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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No.	Description	Date

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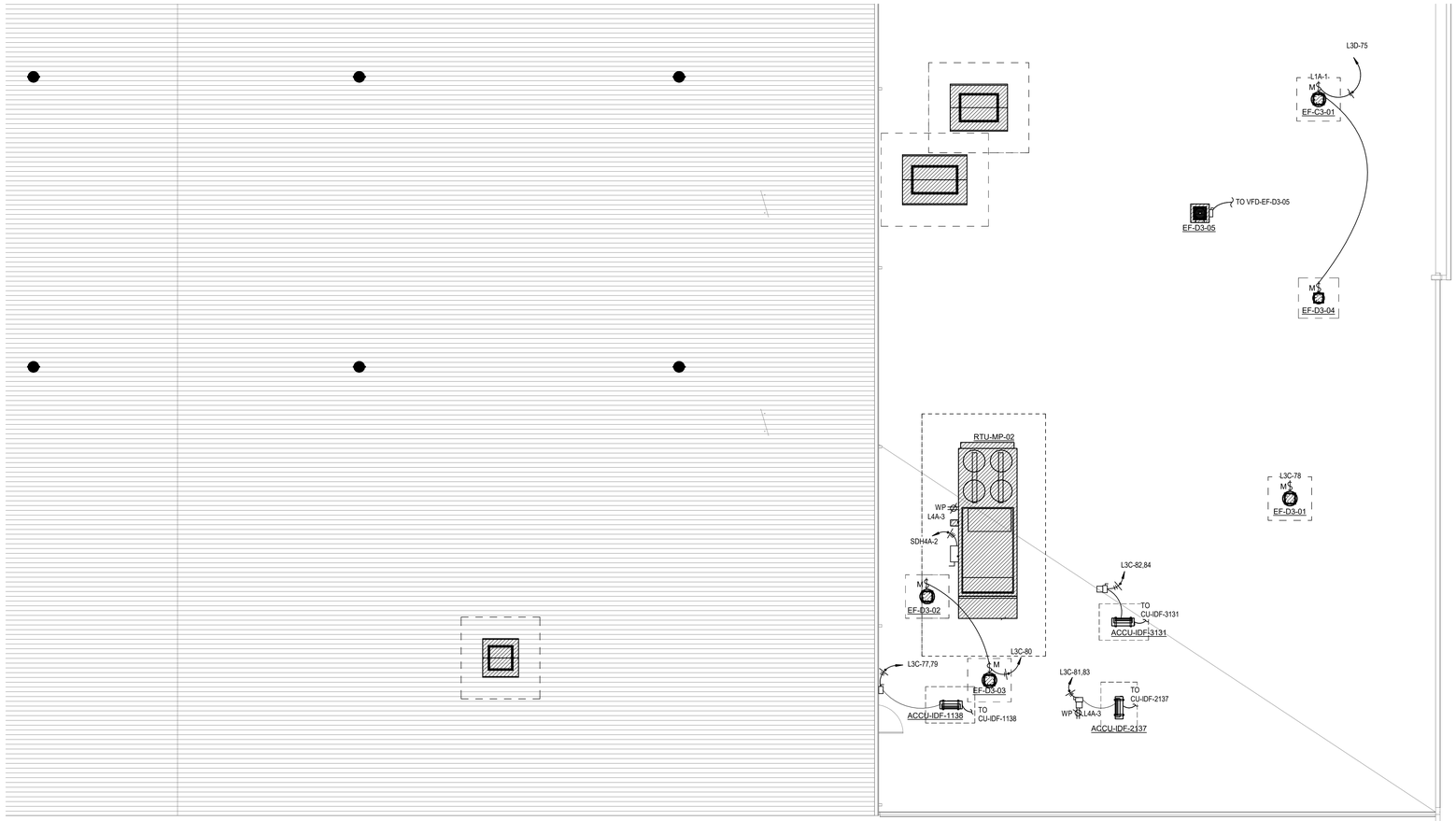
ELECTRICAL ROOF PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-301C

ELECTRICAL ROOF PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301D

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 ELECTRICAL ROOF PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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TX FIRM: BR 1608
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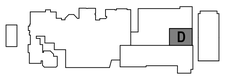
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

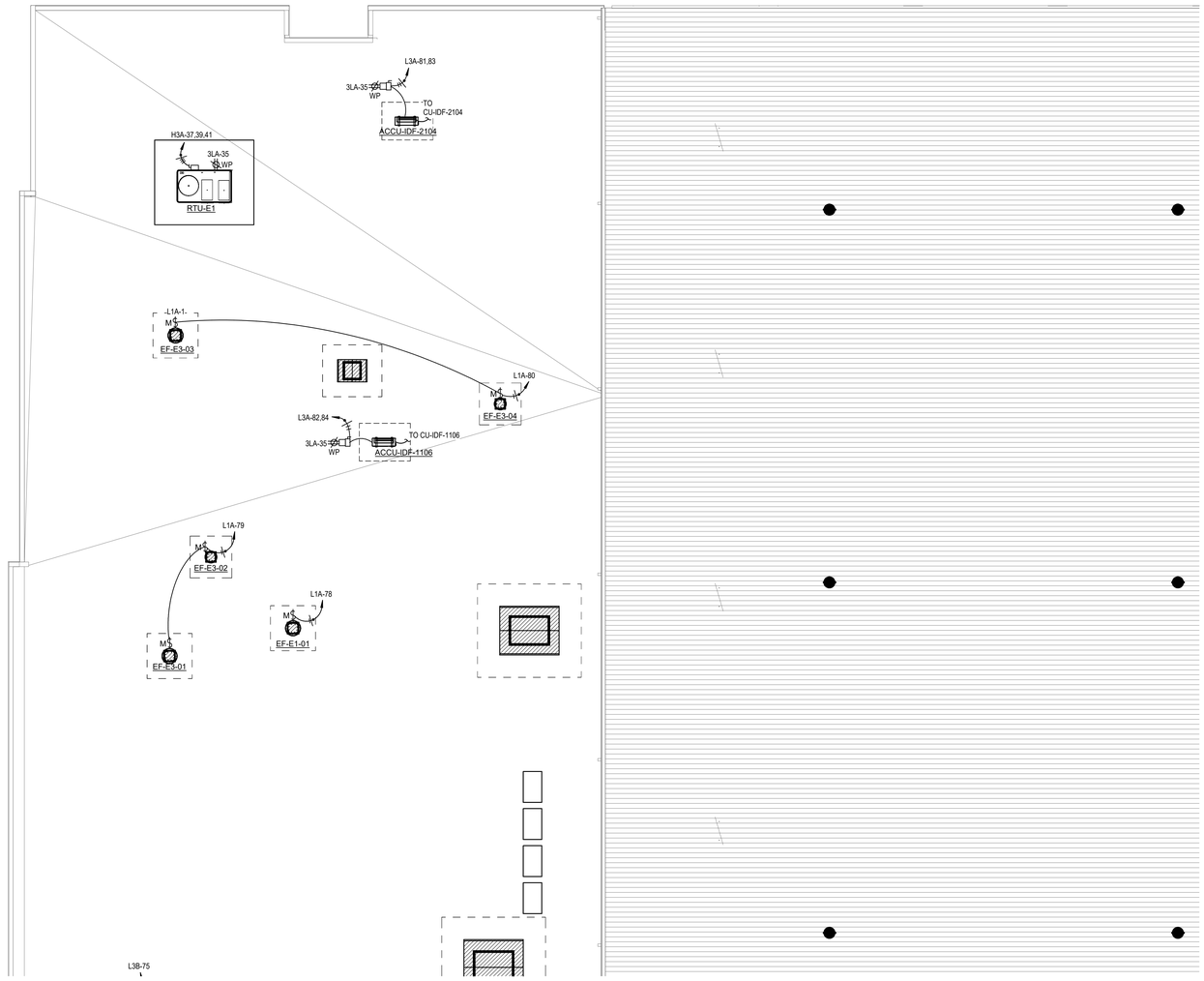
CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL ROOF PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-301D

ELECTRICAL ROOF PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301E
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 ELECTRICAL ROOF PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 6:59:57 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

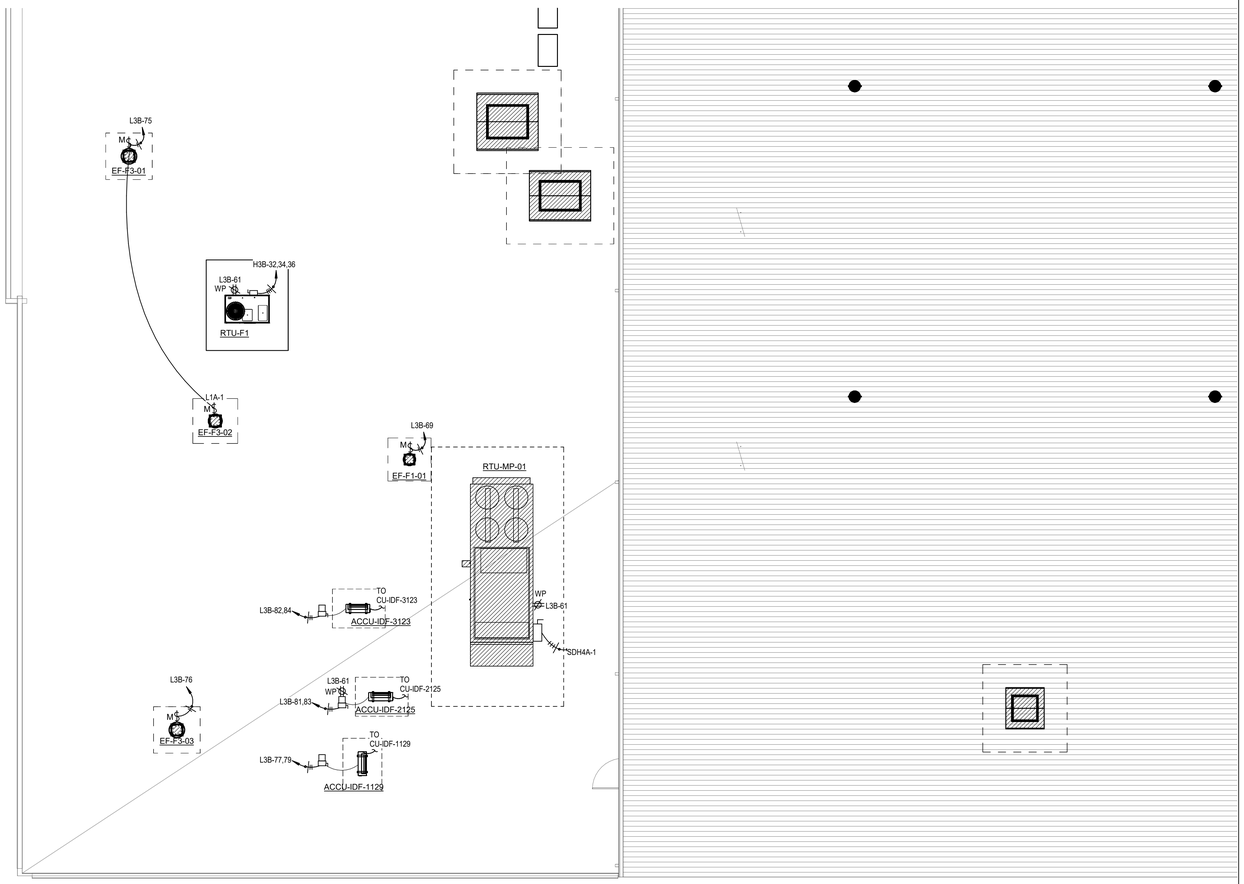
ELECTRICAL ROOF PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-301E

0"
1"

ELECTRICAL ROOF PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-301F

FOR BLUEBEAM LABELING/OCR:



1 ELECTRICAL ROOF PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 7:00:00 PM

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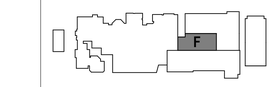
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL ROOF PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-301F

ENLARGED ELECTRICAL PLAN
E-401
FOR BLUEBEAM LABELING/OCR:

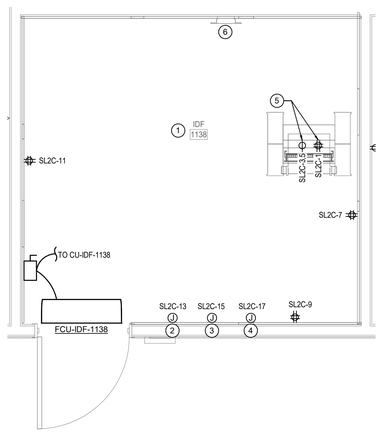
0"
1"

POWER PLAN KEYED NOTES

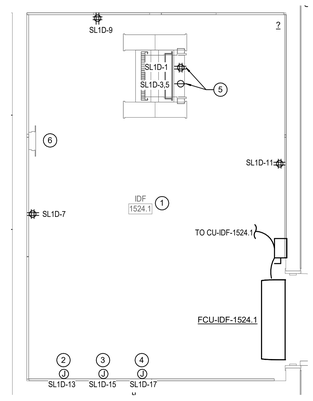
1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. JUNCTION BOX FOR POWER TO FIRE ALARM PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR POWER TO SECURITY BOOSTER PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
4. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR.
5. PROVIDE 30A TWISTLOCK RECEPTACLE (NEMA L5-30R) FOR POWER TO IT RACK. COORDINATE EXACT LOCATION AND POWER REQUIREMENT WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL GROUND BAR BY DIVISION 27. PROVIDE CONNECTION TO BUILDING GROUND SYSTEM, SEE ELECTRICAL GROUNDING RISER EXXX

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.



4 1ST FLOOR TECHNOLOGY PLAN - IDF 1138 ENLARGED
SCALE: 1/2" = 1'-0"



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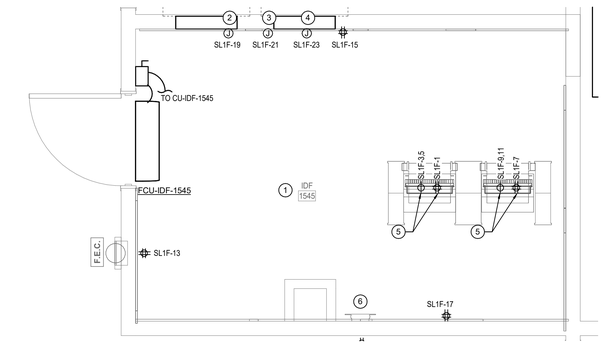
SCALE: 1/2" = 1'-0"



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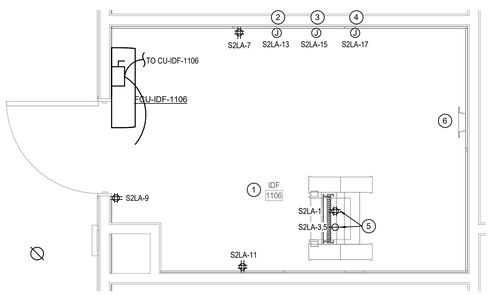
SCALE: 1/2" = 1'-0"



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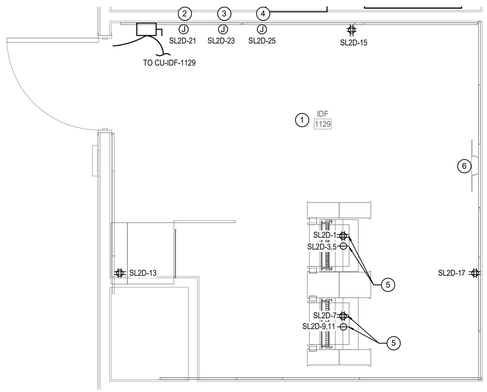
SCALE: 1/2" = 1'-0"



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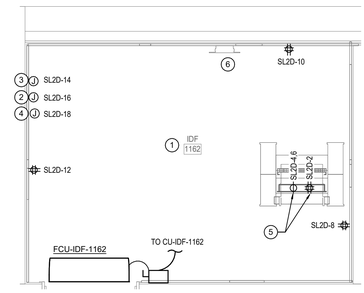
SCALE: 1/2" = 1'-0"



3 1ST FLOOR TECHNOLOGY PLAN - IDF 1162 ENLARGED
SCALE: 1/2" = 1'-0"

Plot Stamp:
12/3/2025 7:00:03 PM

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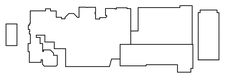
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ENLARGED ELECTRICAL PLAN

E-401

ENLARGED ELECTRICAL PLAN
E-402
FOR BLUEBEAM LABELING/OCR:

0"
1"

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. JUNCTION BOX FOR POWER TO FIRE ALARM PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR POWER TO SECURITY BOOSTER PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
4. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR.
5. PROVIDE 30A TWISTLOCK RECEPTACLE (NEMA L5-30R) FOR POWER TO IT RACK. COORDINATE EXACT LOCATION AND POWER REQUIREMENT WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL GROUND BAR BY DIVISION 27. PROVIDE CONNECTION TO BUILDING GROUND SYSTEM, SEE ELECTRICAL GROUNDING RISER EXXX

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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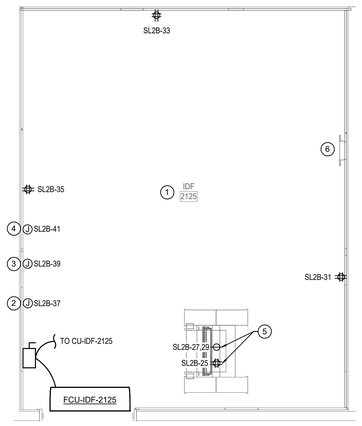
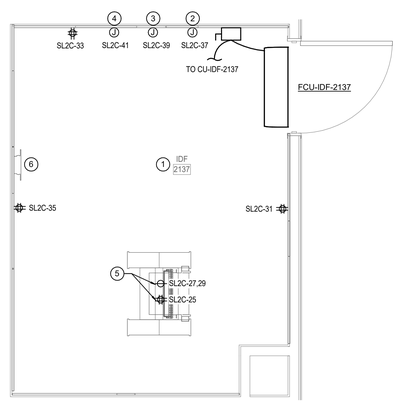
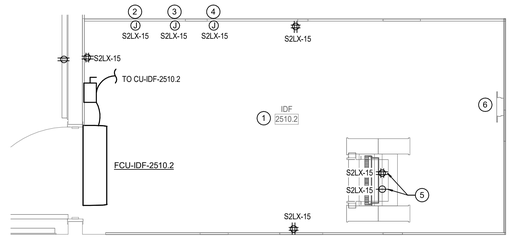
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.



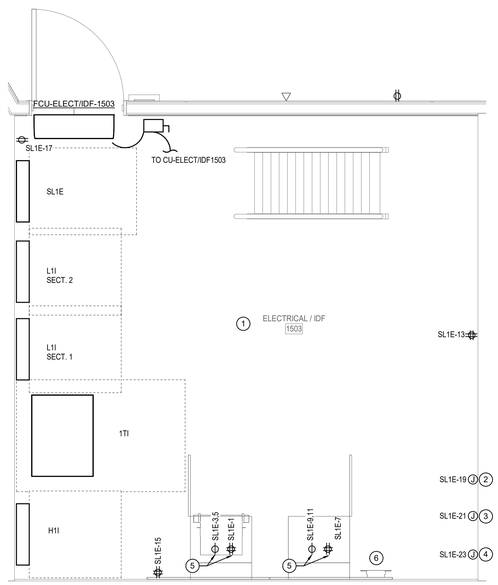
4 2ND FLOOR TECHNOLOGY PLAN - IDF 2125 ENLARGED
SCALE: 1/2" = 1'-0"



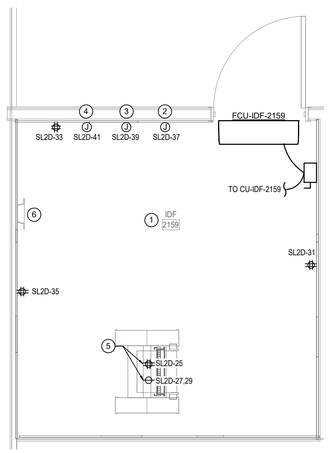
5 2ND FLOOR TECHNOLOGY PLAN - IDF 2137 ENLARGED
SCALE: 1/2" = 1'-0"



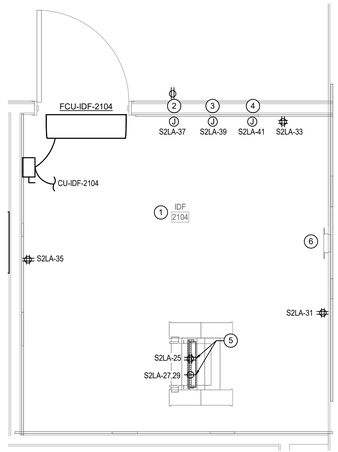
6 2ND FLOOR TECHNOLOGY PLAN - IDF 2510.2 ENLARGED
SCALE: 1/2" = 1'-0"



1 1ST FLOOR TECHNOLOGY PLAN - IDF ELEC/IDF 1503 ENLARGED
SCALE: 1/2" = 1'-0"



2 2ND FLOOR TECHNOLOGY PLAN - IDF 2159 ENLARGED
SCALE: 1/2" = 1'-0"



3 2ND FLOOR TECHNOLOGY PLAN - IDF 2103 ENLARGED
SCALE: 1/2" = 1'-0"

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LEAF ENGINEERS

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ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ENLARGED ELECTRICAL PLAN

E-402

Plot Stamp:
12/3/2025 7:00:07 PM

0"
1"

ENLARGED ELECTRICAL PLAN
E-403
FOR BLUEBEAM LABELING/OCR:

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. JUNCTION BOX FOR POWER TO FIRE ALARM PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
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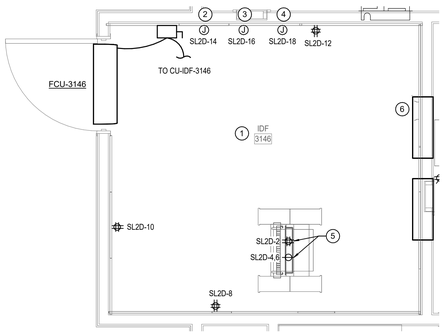
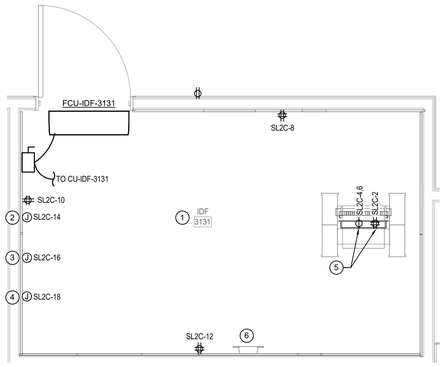
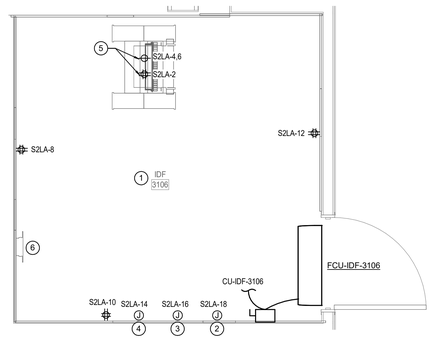


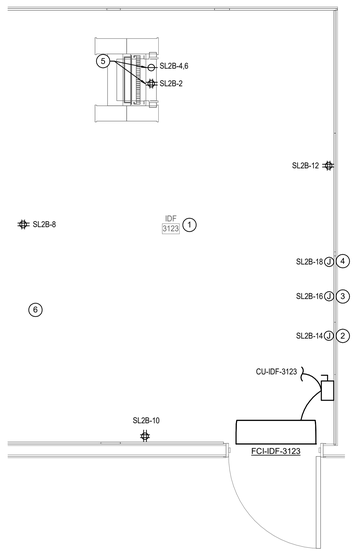
4 3RD FLOOR TECHNOLOGY PLAN - IDF 3146 ENLARGED
SCALE: 1/2" = 1'-0"



1 3RD FLOOR TECHNOLOGY PLAN - IDF 3131 ENLARGED
SCALE: 1/2" = 1'-0"



2 3RD FLOOR TECHNOLOGY PLAN - IDF 3106 ENLARGED
SCALE: 1/2" = 1'-0"



3 3RD FLOOR TECHNOLOGY PLAN - IDF 3123 ENLARGED
SCALE: 1/2" = 1'-0"

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LEAF ENGINEERS

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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
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ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

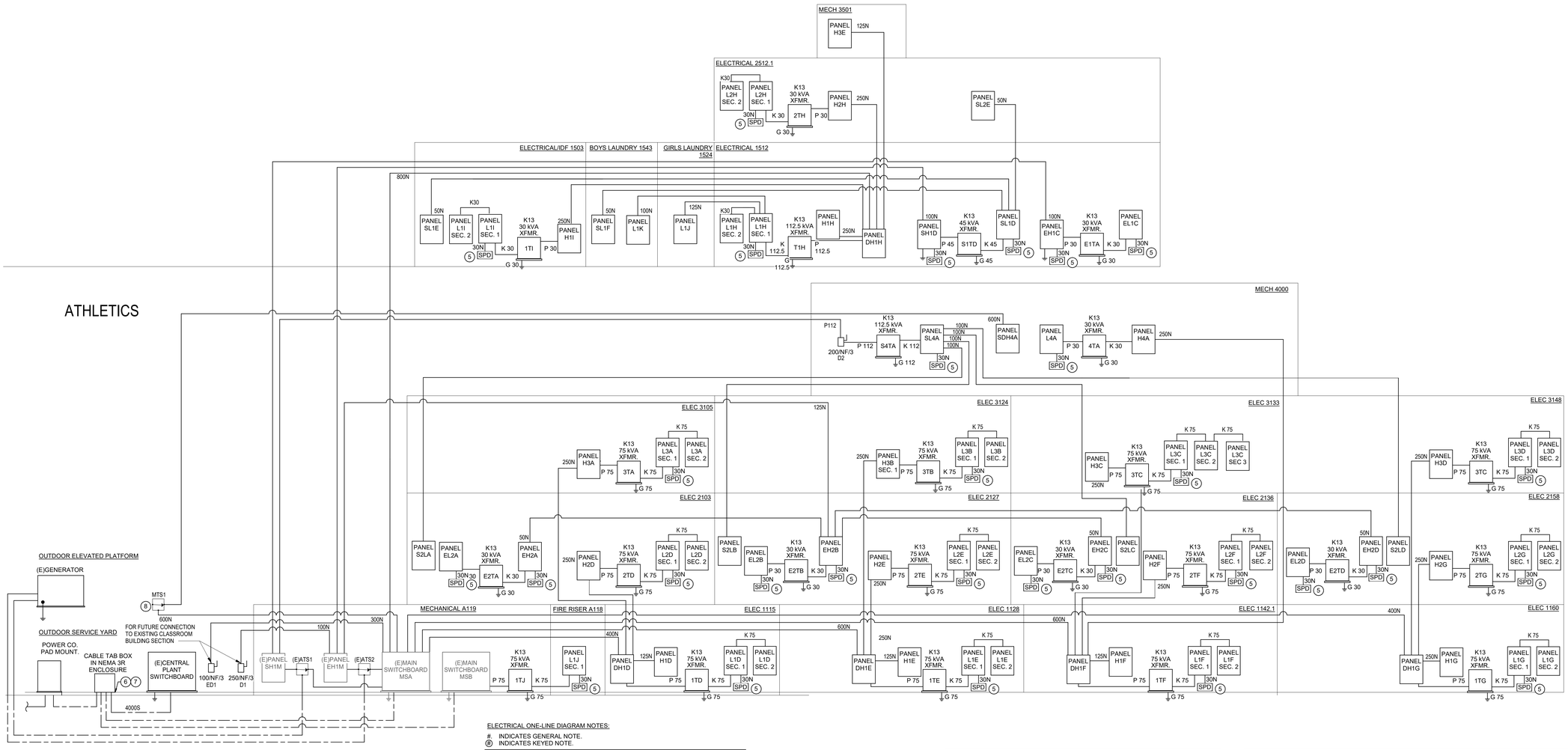
ENLARGED ELECTRICAL PLAN

E-403

Plot Stamp:
12/3/2025 7:00:09 PM

ELECTRICAL RISER DIAGRAM
E-502
FOR BLUEBEAM LABELING/OCR:

0"
1"



CTE BUILDING

ELECTRICAL ONE-LINE DIAGRAM NOTES:

#. INDICATES GENERAL NOTE.
Ⓚ INDICATES KEYED NOTE.

1. UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480: 208/120 VOLT 3P, 4W.
2. PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.

(3) REFERENCE ONE-LINE DIAGRAM.

(4) 1#6 G, 3/4"C.

(5) SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

(6) PER LOCAL UTILITY COMPANY STANDARDS.

(7) COORDINATE WITH UTILITY AND OWNER FOR SHUTDOWN OF EXISTING SERVICE TO CONNECT NEW SERVICE FOR CENTRAL PLANT. EXISTING CABLE TAP BOX SHALL BE REPLACED TO ACCOMMODATE CONNECTION OF NEW SERVICE.

(8) ESL POWER SERIES 3080 600 A 100% RATED 65 KAIC STORM SWITCH OR APPROVED EQUAL

ALUMINUM FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
200	3#250, 1#4G	2"	1	
200N	4#250, 1#4G	2 1/2"	1	
225	3#300, 1#2G	2 1/2"	1	
225N	4#300, 1#2G	3"	1	
250	3#350, 1#2G	2 1/2"	1	
250N	4#350, 1#2G	3"	1	
300	3#500, 1#2G	3"	1	
300N	4#500, 1#2G	3"	1	
400	3#250, 1#1G	2 1/2"	2	
400N	4#250, 1#1G	2 1/2"	2	
600	3#500, 1#2/0G	3"	2	
600N	4#500, 1#2/0G	3 1/2"	2	
800	3#400, 1#3/0G	3"	3	
800N	4#400, 1#3/0G	3"	3	
1200	3#500, 1#3/0G	3"	4	
1200N	4#500, 1#3/0G	3 1/2"	4	

FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
30N	4#10, 1#10G	1"	1	
50N	4#6, 1#10G	1"	1	
60N	4#6, 1#10G	1"	1	
100	3#1, 1#8G	1 1/2"	1	
100N	4#1, 1#8G	1 1/2"	1	
125	3#1, 1#6G	1 1/2"	1	
125N	4#1, 1#6G	2"	1	
150	3#1/0, 1#6G	1 1/2"	1	
150N	4#1/0, 1#6G	2"	1	
175	3#2/0, 1#6G	2"	1	
175N	4#2/0, 1#6G	2"	1	
200	3#3/0, 1#6G	2"	1	
200N	4#3/0, 1#6G	2"	1	
225	3#4/0, 1#4G	2"	1	
225N	4#4/0, 1#4G	2 1/2"	1	
250	3#250, 1#4G	2 1/2"	1	
250N	4#250, 1#4G	3"	1	
300	3#350, 1#4G	3"	1	
300N	4#350, 1#4G	3"	1	
400	3#3/0, 1#3G	2"	2	
400N	4#3/0, 1#3G	2"	2	
400S	4#500	3 1/2"	1	
600	3#350, 1#1G	3"	2	
600N	4#350, 1#1G	3"	2	
600S	4#350	3"	2	
800	3#500, 1#1/0G	3"	2	
800N	4#500, 1#1/0G	3 1/2"	2	
800S	4#500	3 1/2"	2	
1000	3#400, 1#2/0G	3"	3	
1000N	4#400, 1#2/0G	3"	3	
1000S	4#400	3"	3	
1200	3#350, 1#3/0G	3"	4	
1200N	4#350, 1#3/0G	3"	4	
1200S	4#350	3"	4	
1600S	4#400	3"	5	
2000S	4#400	3"	6	
2500S	4#500	3 1/2"	7	
3000S	4#500	3 1/2"	8	
4000S	4#500	3 1/2"	11	

TRANSFORMER FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
P15	3#10, 1#10G	3/4"	1	
S15	4#6, 1#8G	1"	1	
K15	3#4, 1#6N, 1#8G	1 1/4"	1	
G15	1#8G	1/2"	1	
P15	2#8, 1#10G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S15	3#4, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G15	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P25	2#6, 1#10G	1"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D25	3#1, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G25	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P30	3#6, 1#10G	3/4"	1	
S30	4#1, 1#6G	1 1/2"	1	
K30	3 #1/0, 1#2/0N, 1#6G	2"	1	
G30	1#6G	1/2"	1	
P37	2#1, 1#6G	1 1/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D37	3#3/0, 1#4G	3"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G37	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P45	3#4, 1#8G	1"	1	
S45	4#1/0, 1#6G	1 1/2"	1	
K45	3#2/0, 1#250, 1#4G	2"	1	
G45	1#6G	1/2"	1	
P50	2#1, 1#6G	1 1/4"	1	
S50	3#3/0, 1#3G	2"	1	
G50	1#3G	3/4"	1	
P75	3#1, 1#8G	1 1/2"	1	
S75	4#4/0, 1#2G	2 1/2"	1	
K75	3#4/0, 2#3/0N, 1#2G	2 1/2"	1	
G75	1#1/0G	1/2"	1	
P75	2#3/0, 1#6G	2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S75	3#3/0, 1#4G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G75	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P75A	3#1, 1#8G	1 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
S75A	4#4/0, 1#2G	2 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
G75A	1#2G	1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
P112	3#2/0, #6G	2"	1	
S112	4#3/0, 1#1/0G	2"	2	
K112	3#4/0, 1#350N, 1#1/0G	2 1/2"	2	
G112	1#1/0G	3/4"	1	
P150	3#250, 1#4G	2 1/2"	1	
S150	4#350, 1#2/0G	3"	2	
K150	3#350, 2#3/0N, 1#2/0G	3"	2	
G150	1#2/0G	3/4"	1	
P167	2#4/0, 1#2/0G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S167	3#350, 1#3/0G	3"	3	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G167	1#3/0G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P225	3#500, 3#3G	3"	1	
S225	4#300, 1#2/0G	3"	1	
K225	3#350, 2#3/0, 1#1G	3 1/2"	3	
G225	1#2/0G	3/4"	1	

Plot Stamp:
12/3/2025 7:00:11 PM

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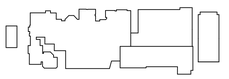
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE NEAL FOUNDATION



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL RISER DIAGRAM

E-502

0"

1"

ELECTRICAL CONTACTOR SCHEDULE

E-601

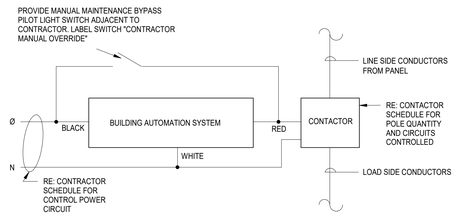
FOR BLUEBEAM LABELING/OCR:

FIXTURE SCHEDULE: GALENA PARK ISD - HIGH SCHOOL 3B

Label	Manuf.	Catalog Number	Description	Lamp Lumens	Watts
A1	Lithonia	CPX 2X4 3000LM 80 40K SWL MIN10 ZT MVOLT -	RECESSED 2X4 FLAT PANEL - 3000 LUMEN	3368	25
A1H	Lithonia	CPX 2X4 3000LM 80 40K SWL MIN10 ZT MVOLT -...	RECESSED 2X4 FLAT PANEL - 3000 LUMEN - HARD...	3368	25
A2	Lithonia	CPX 2X4 4000LM 80 40K SWL MIN10 ZT MVOLT	RECESSED 2X4 FLAT PANEL - 4000 LUMEN	4935	37
A3	Lithonia	CPX 2X4 5000LM 80 40K SWL MIN10 ZT MVOLT	RECESSED 2X4 FLAT PANEL - 5000 LUMEN	5193	40
A3H	Lithonia	CPX 2X4 5000LM 80 40K SWL MIN10 ZT MVOLT...	RECESSED 2X4 FLAT PANEL - 5000 LUMEN - HARD...	5193	40
A4	Lithonia	CPX 2X4 10000LM 80 40K A12 MIN10 ZT MVOLT	RECESSED FLAT PANEL - 10000 LUMEN	10629	88
A4H	Lithonia	CPX 2X4 10000LM 80 40K A12 MIN10 ZT MVOLT...	RECESSED FLAT PANEL - 10000 LUMEN - HARD...	10629	88
D1	Gotham	IVO4 D 15LM 40K 80CRI WD MIN10 MVOLT ZT NCH...	RECESSED 4 INCH DOWNLIGHT - 1500 LUMEN	1447	16
D2	Gotham	IVO4 D 20LM 40K 80CRI WD MIN10 MVOLT ZT NCH...	RECESSED 4 INCH DOWNLIGHT - 2000 LUMEN	1893	22
D3	Gotham	IVO4 D 30LM 40K 80CRI WD MIN10 MVOLT ZT NCH...	RECESSED 4 INCH DOWNLIGHT - 3000 LUMEN	2732	30
D4W	Gotham	IVO6 D 40LM 40K 80CRI WD MIN10 MVOLT ZT NCH...	RECESSED 6 INCH DOWNLIGHT - 4000 LUMEN - WE...	3086	40
ES2	Prudential	BHEX-PRO 2'X6 HO SAL XX (FINISH) UNV CA48 X3...	SUSPENDED HOLLOW HEXAGON	17500	150
G2	Lithonia	CPHB 24000LM SEF GCL WD MVOLT GZ10 40K 80C...	SUSPENDED HIGH BAY - 24000 LUMEN - GYM	24000	15
G3	Lithonia	CPHB 36000LM SEF GCL WD MVOLT GZ10 40K 80C...	SUSPENDED HIGH BAY - 36000 LUMEN -GYM	37596	235
H1	Lux Dynamics	E-5-DA-840-4-U10 WP T 5/10 XX(EM) RMS 10Y M...	SUSPENDED HIGH BAY - REMOTE DRIVER -...	62225	371
LA2	Focal Point	ASM2S_BW 12" 1200LF 40K 1C UNV LD1 J48 BKCD XX(ACOUSTIC COLOR) XX(RUN LENGTH)	SUSPENDED LIT ACOUSTIC BAFFLE - - VERIFY SUSPENSION LENGTH	1200L/FT	10.7W/FT
LAN	Focal Point	AUSM2S SD 12" J48 NH CRT XX(RUN LENGTH)	SUSPENDED UN- LIT ACOUSTIC BAFFLE - ORANGE -...	NA	NA
LR1	Focal Point	FSM2L-BW-750LF 40K 1C UNV LD1 XX(CEILING) M...	RECESSED LINEAR (2") - GRID - 750L/FT	750L/FT	6.5W/FT
LR2	Focal Point	FSM2L-BW-1000LF 40K 1C UNV LD1 XX(CEILING) M...	RECESSED LINEAR (2") - GRID - 1000L/FT	1000L/FT	8W/FT
M1	Lithonia	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI ...	SUSPENDED UTILITY STRIP	4940	32
SW	Prudential	Wal14-LED4 HO 6' WFA TMW SC UNV WM DM01...	SURFACE WALL LINEAR - 6'	7500	72
W1	Lithonia	WDGE2 LED P3 40K 80CRI T3M MVOLT SRM...	SURFACE WALL PACK	3629	32
WS	AFX	REAW0548LAJUD 4000K BB	EXTERIOR - SURFACE WALL SCONCE 48"	2723	40
X1	Barron	ILX RG EM WH	EXIT UNIVERSAL MOUNTING	3629	3

CONTACTOR SCHEDULE

DESIG- NATION	CIRCUITS SERVED	CONTACTOR CHARACTERISTICS					REMARKS
		CONTACT AMPS	N.O. POLES	COIL VOLTS	CONTROL	SUPPLY CKT.	
C1A-1	H1I-3, H1I-5, H1I-7	20	6	120	DDC	L1I-44	SIEMENS CLASS LC OR ABB CR460
C1C-1	H1G-3	20	6	120	DDC	L1G-34	SIEMENS CLASS LC OR ABB CR460
C1C-2	H1G-13, H1G-15, H1G-17	20	6	120	DDC	L1G-36	SIEMENS CLASS LC OR ABB CR460
C2	H1D-17	20	4	277	DDC	MSA-21	WALLPACKS
C2A-1	H2F-3	20	6	120	DDC		SIEMENS CLASS LC OR ABB CR460
C3A-1	H3D-3	20	6	120	DDC		SIEMENS CLASS LC OR ABB CR460
C5	H1D-9, H1D-11	20	6	120	DDC	L1D-44	SIEMENS CLASS LC OR ABB CR460
C6	H1H-11, H1H-13	20	6	120	DDC	L1H-46	SIEMENS CLASS LC OR ABB CR460
E1A-1	H1D-3	20	6	120	DDC	L1D-44	SIEMENS CLASS LC OR ABB CR460
E2A-1	H2D-3	20	6	120	DDC		SIEMENS CLASS LC OR ABB CR460
E3A-1	H3A-3	20	6	120	DDC		SIEMENS CLASS LC OR ABB CR460
F2A-1	H2E-3	20	6	120	DDC		SIEMENS CLASS LC OR ABB CR460
F3A-1	H3B-3	20	6	120	DDC		SIEMENS CLASS LC OR ABB CR460



1 CONTACTOR CONTROL DIAGRAM
NOT TO SCALE

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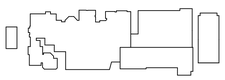
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL CONTACTOR SCHEDULE

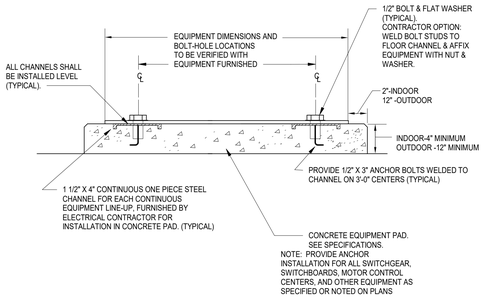
E-601

Plot Stamp:
12/3/2025 7:00:11 PM

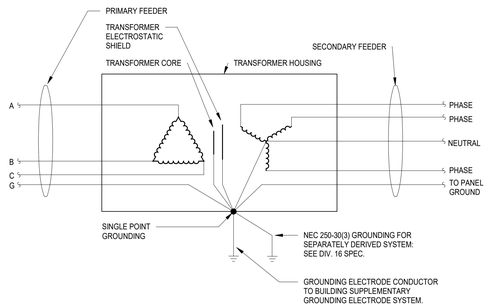
0"
1"

GENERAL LIGHTING SCHDULES NOTES

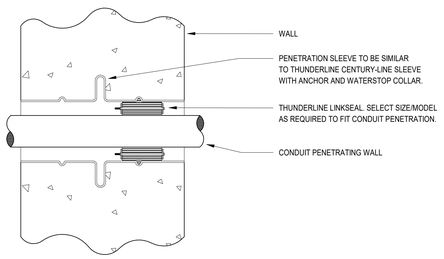
1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN AND RELATED DETAILS TO DETERMINE PROPER CEILING TYPE COMPATIBILITY FOR EACH LUMINAIRE. PROVIDE ANY EXTRA FITTINGS OR OPTIONS AS REQUIRED TO ENSURE CORRECT MOUNTING IN THE GIVEN CEILING.
2. PROVIDE FIRE RATED CANOPY OR ENCLOSURE FOR ALL FIXTURES RECESSED IN A FIRE RATED CEILING. THE FIRE RATED CANOPY OR ENCLOSURE SHALL BE REQUIRED BY THE UL DESIGN NUMBER LISTED IN THE UL FIRE RESISTANCE DIRECTORY. REFER TO ARCHITECTURAL DRAWING FOR THE UL DESIGN NUMBER. COORDINATE WITH CEILING INSTALLER AND MANUFACTURER.



3 EQUIPMENT ANCHOR DETAIL
NOT TO SCALE



2 DELTA-WYE TRANSFORMER SCHEMATIC
NOT TO SCALE



1 CONDUIT PENETRATION DETAIL - EXTERIOR WALL
NOT TO SCALE

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LEAF ENGINEERS

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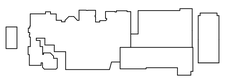


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL DETAILS

E-602

Plot Stamp:
12/3/2025 7:00:11 PM

ELECTRICAL PANEL SCHEDULES
EP-700
FOR BLUEBEAM LABELING/OCR:

0"
1"

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1D**

Served From:

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1D	125/3	SEE RISER	#N/A	0.0	7.3	0.0	0.0	0.0	0.0				#N/A	#N/A
2	PANEL H2D	250/3	SEE RISER	#N/A	0.0	3.8	73.8	0.0	0.0	0.0				#N/A	#N/A
3	PANEL H3D	250/3	SEE RISER	4.4	21.4	16.2	0.0	0.0	5.0	0.0				47.1	56.6
4	XFMR 1TD(75 KVA)	125/3	SEE RISER	0.0	20.9	1.7	0.0	0.0	16.1	0.0				38.7	46.5
5	AHU-E1-01	20/3	4#12, 1#4G 3"C											0.0	0.0
6	AHU-F1-01	20/3	4#12, 1#4G 3"C											0.0	0.0
7	OAHU-E1-01	20/3	4#12, 1#4G 3"C											0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	42.3	29.0	73.8	0.0	21.2	0.0	0.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	26.2	29.0	73.8	0.0	21.2	0.0	0.0	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1D
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	400 AMP
BUS SIZE	PHASE:	400 AMP
	NEUTRAL:	400 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1E**

Served From:

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1E	125/3	4#250N, 1#4G 3"C	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0			3.5	4.3
2	PANEL H2E	250/3	4#250N, 1#4G 3"C	#N/A	0.0	31.4	0.0	16.0	0.0	0.0				#N/A	#N/A
3	PANEL H3B	250/3	4#250N, 1#4G 3"C	3.4	23.9	55.7	0.0	10.0	5.9	0.0	0.0			98.9	119.0
4	ELEVATOR	30/3	4#10, 1#10G 1"C			11.6								11.6	14.0
5	1TE(75 KVA)	125/3	SEE RISER	0.0	23.6	0.5	0.0	0.0	9.4	0.0	5.0			38.6	46.4
6	AHU-E1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
7	AHU-F1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
8	OAHU-E1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
9	SPARE	250/3												0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	47.5	131.5	0.0	25.9	15.3	0.0	5.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	28.8	131.5	0.0	25.9	15.3	0.0	2.5	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1E
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1F**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1F	125/3	SEE RISER	#N/A	0.0	5.8	0.0	0.0	0.0	0.0	0.0			#N/A	#N/A
2	PANEL H2F	250/3	SEE RISER	#N/A	0.0	31.4	0.0	16.0	0.0	0.0				#N/A	#N/A
3	PANEL H3C	250/3	SEE RISER	2.9	27.7	61.0	0.0	0.0	7.6	0.0	0.0			99.2	119.3
4	PANEL H4A	250/3	SEE RISER	0.0	0.0	64.8	0.0	0.0	0.0	0.0	0.0			64.8	78.0
5	1TE(75 KVA)	125/3	SEE RISER	0.0	23.6	0.5	0.0	0.0	9.4	0.0	5.0			38.6	46.4
6	AHU-C1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
7	AHU-D1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
8	OAHU-C1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	51.2	194.7	0.0	16.0	17.1	0.0	5.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	30.6	194.7	0.0	16.0	17.1	0.0	2.5	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1F
MAINS (1)	TYPE:	
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1G**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1G	125/3	4#250N, 1#4G 3"C	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0			#N/A	#N/A
2	PANEL H2G	250/3	4#250N, 1#4G 3"C	#N/A	15.5	4.5	0.0	0.0	3.8	0.0	0.0			#N/A	#N/A
3	PANEL H3D	250/3	4#250N, 1#4G 3"C	3.6	26.3	22.1	0.0	11.3	1.9	0.0	0.0			65.3	78.5
4	1TE(75 KVA)	125/3	SEE RISER	0.0	5.7	0.0	0.0	0.0	0.0	0.0	2.0			7.7	9.3
5	SPACE													0.0	0.0
6	SPACE													0.0	0.0
7	SPACE													0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	47.5	26.6	0.0	11.3	5.8	0.0	2.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	28.8	26.6	0.0	11.3	5.8	0.0	1.0	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1G
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	400 AMP
BUS SIZE	PHASE:	400 AMP
	NEUTRAL:	400 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1H**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	H1H	250/3	SEE RISER	11.2	36.8	31.4	0.0	0.0	65.8	0.0	0.0			145.3	174.8
2	H1I	250/3	SEE RISER	11.0	17.6	67.9	9.0	4.7	9.6	0.0	0.0			119.8	144.2
3	H2H	250/3	SEE RISER	0.0	7.2	45.0	0.0	19.0	6.8	0.0	0.0			78.0	93.8
4	H3E	125/3	SEE RISER	0.0	0.0	57.8	0.0	0.0	0.0	0.0	0.0			57.8	69.6
5	XFMR T1H	175/3	SEE RISER	0.0	36.8	1.7	0.0	0.0	65.8	0.0	0.0			104.4	125.6
6	SPACE													0.0	0.0
7	SPACE													0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				22.2	98.5	203.9	9.0	23.7	148.1	0.0	0.0	0.0	0.0	505.4	607.9
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				27.8	54.3	203.9	0.0	23.7	148.1	0.0	0.0	0.0	0.0	457.8	550.6

* 100% of...
** 125% of...
*** Elevator...
****...

(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1H
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	800 AMP
BUS SIZE	PHASE:	800 AMP
	NEUTRAL:	800 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH4A**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	RTU-MP-01	225/3	4#4/0, 1#4, 2-1/2" C			156.8								156.8	188.6
2	RTU-MP-02	225/3	4#4/0, 1#4, 2-1/2" C			156.8								156.8	188.6
3	SPACE													0.0	0.0
4	SPACE													0.0	0.0
5	SPACE													0.0	0.0
6	SPACE													0.0	0.0
7	SPACE													0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				0.0	0.0	313.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	313.6	377.2
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				0.0	0.0	313.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	313.6	377.2

* 100% of...
** 125% of...
*** Elevator...
****...

(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

Largest... _____ KVA

DISTRIBUTION PANEL:		DH4A
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **(E)MSA**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	SPARE(PREVIOUS CH-1)	700/3												0.0	0.0
2	(E)H1M	400/3	EXISTING			94.6								94.6	113.8
3	(E)H1K	225/3	EXISTING			18.1	30.0		23.2					71.3	85.7
4	(E)X1K	350/3	EXISTING						214.2					214.2	257.6
5	(E)X1M	50/3	EXISTING	0.7	5.9	45.0			1.9					53.6	64.5
6	DH1D	400/3	SEE RISER	#N/A	42.3	29.0	73.8	0.0	21.2	0.0	0.0	0.0	0.0	#N/A	#N/A
7	DH1E	600/3	SEE RISER	#N/A	47.5	131.5	0.0	25.9	15.3	0.0	5.0	0.0	0.0	#N/A	#N/A
8	DH1F	600/3	SEE RISER	#N/A	51.2	194.7	0.0	16.0	17.1	0.0	5.0	0.0	0.0	#N/A	#N/A
9	DH1G	400/3	SEE RISER	#N/A	47.5	26.6	0.0	11.3	5.8	0.0	2.0	0.0	0.0	#N/A	#N/A
10	DH1H	800/3	SEE RISER	22.2	98.5	203.9	9.0	23.7	148.1	0.0	0.0	0.0	0.0	505.4	607.9
11	D1	250/3	SEE RISER	0.0	43.2	0.0	0.0	0.0	43.7	0.0	0.0				
12	MTS1(SDH4A)	600/3	SEE RISER	0.0	0.0	313.6	0.0	0.0	0.0	0.0	0.0				
13	SPARE	400/3													
14	SPARE	225/3													
15	SPARE	225/3												0.0	0.0
Total...				#N/A	336.2	1057.1	112.8	76.9	490.4	0.0	12.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	173.1	1057.1	112.8	0.0	490.4	0.0	6.0	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		(E)MSA
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	4000 AMP
BUS SIZE	PHASE:	4000 AMP
	NEUTRAL:	4000 AMP
	GROUND:	PER NEC

Date: 12/3/2025

By: Designer

Plot Stamp:
12/3/2025 7:00:12 PM

PBK

www.pbk.com

TX FIRM: BR 1608

HOUSTON, TX
713-366-0608

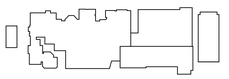
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-700

ELECTRICAL PANEL SCHEDULES
EP-701
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: Job Name | Job No. Job Number | A/C.. 42000

Mounting: SURFACE | Voltage: 480Y/277V-3PH 4W | Ground: Equipment Ground
Main Type: MLO | Main Size: 125 AMPS | Lugs: SINGLE
Neutral: 100%

PANEL: H1D — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LTG - CLASSROOMS	20/1	10	1	A	2	12	15/1	CVB-E1-01-01			914					0.00
#N/A							0.00	LTG - CORR	20/1	10	3	B	4	12	15/1	CVB-E1-01-02			914					0.00
#N/A							0.00	LTG - COLLAB FLEX RM	20/1	10	5	C	6	12	15/1	CVB-E1-01-03			211					0.00
#N/A							0.00	LTG - MULTIPURPOSE	20/1	10	7	A	8	12	15/1	CVB-E1-01-04			1357					0.00
600							0.00	LTG - LAND SCAPE	20/1	10	9	B	10	12	15/1	CVB-E1-01-05			211					0.00
1000							0.00	LTG - LAND SCAPE	20/1	10	11	C	12	12	15/1	CVB-E1-01-06			914					0.00
2288							0.00	LTG- MAIN STREET	20/1	10	13	A	14	12	15/1	CVB-E1-01-07			914					0.00
2288							0.00	LTG- MAIN STREET	20/1	10	15	B	16	12	15/1	CVB-E1-01-08			914					0.00
224							0.00	LTG - WALL PACK	20/1	10	17	C	18	12	15/1	CVB-E1-01-09			914					0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
#N/A	0	0	0	0	0	0	0.00	**TOTALS**									**TOTALS**	0	0	7263	0	0	0	0.00

LOAD SUMMARY

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	7.3	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	7.3	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: H1D

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C.. 42000

Mounting: SURFACE | Voltage: 480Y/277V-3PH 4W | Ground: Equipment Ground
Main Type: MLO | Main Size: 125 AMPS | Lugs: SINGLE
Neutral: 100%

PANEL: H1E — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2	12	15/1	CVB-F1-01-01			211					0.00
							0.00				3	B	4	12	15/1	CVB-F1-01-02A			211					0.00
							0.00				5	C	6	12	15/1	CVB-F1-01-02B			211					0.00
							0.00				7	A	8	12	15/1	CVB-F1-01-02C			211					0.00
							0.00				9	B	10	12	15/1	CVB-F1-01-03			211					0.00
							0.00				11	C	12	12	15/1	CVB-F1-01-04			211					0.00
							0.00				13	A	14	12	15/1	CVB-F1-01-05			914					0.00
							0.00				15	B	16	12	15/1	CVB-F1-01-06			1357					0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
0	0	0	0	0	0	0	0.00	**TOTALS**									**TOTALS**	0	0	3535	0	0	0	0.00

LOAD SUMMARY

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.3
B	1.8
C	0.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	3.5	4.3		3.5	4.3

PANEL: H1E

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C.. 42000

Mounting: SURFACE | Voltage: 480Y/277V-3PH 4W | Ground: Equipment Ground
Main Type: MLO | Main Size: 125 AMPS | Lugs: SINGLE
Neutral: 100%

PANEL: H1F — ALL LOADS IN VA

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - CLASS, MECH	20/1	12	1	A	2	12	15/1	CVBD1-01-01			914					0.00
#N/A							0.00	LIGHT - CLASS, BREAK	20/1	12	3	B	4	12	15/1	CVBD1-01-02			914					0.00
#N/A							0.00	LIGHT - MULTIPURPOSE	20/1	12	5	C	6	12	15/1	CVBD1-01-03			211					0.00
#N/A							0.00	LIGHT - MAIN STREET	20/1	12	7	A	8	12	15/1	CVBD1-01-04			211					0.00
#N/A							0.00	LIGHT - STAIRS	20/1	12	9	B	10	12	15/1	CVBD1-01-05			211					0.00
							0.00				11	C	12	12	15/1	CVBD1-01-06			211					0.00
							0.00				13	A	14	12	15/1	CVBD1-01-07			211					0.00
							0.00				15	B	16	12	15/1	CVBD1-01-08			1357					0.00
							0.00				17	C	18	12	15/1	CVBD1-01-09			211					0.00
							0.00				19	A	20	12	15/1	CVBD1-01-10			1357					0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
#N/A	0	0	0	0	0	0	0.00	**TOTALS**									**TOTALS**	0	0	5806	0	0	0	0.00

LOAD SUMMARY

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	5.8	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	5.8	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: H1F

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C.. 42000

Mounting: SURFACE | Voltage: 480Y/277V-3PH 4W | Ground: Equipment Ground
Main Type: MLO | Main Size: 125 AMPS | Lugs: SINGLE
Neutral: 100%

PANEL: H1G — ALL LOADS IN VA

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - CLASS, ELEC	20/1	12	1	A	2	12	15/1	CVB-C1-01-1	914							0.00
#N/A							0.00	LIGHT - HALL	20/1	12	3	B	4	12	15/1	CVB-C1-01-2	914							0.00
#N/A							0.00	LIGHT - CLASS, BATH	20/1	12	5	C	6	12	15/1	CVB-C1-01-3	914							0.00
#N/A							0.00	LIGHT - MULTIPURSE	20/1	12	7	A	8	12	15/1	CVB-C1-01-4	914							0.00
#N/A							0.00	LIGHT - EXTERIOR	20/1	12	9	B	10	12	15/1	CVB-C1-01-5	914							0.00
#N/A							0.00	LIGHT - STAIRWELL	20/1	12	11	C	12	12	15/1	CVB-C1-01-6	211							0.00
600							0.00	LIGHT - LANDSCAPE	20/1	12	13	A	14	12	15/1	CVB-C1-01-7	211							0.00
500							0.00	LIGHT - LANDSCAPE	20/1	10	15	B	16	12	15/1	CVB-C1-01-8	211							0.00
800							0.00	LIGHT - EXTERIOR,LTG	20/1	10	17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
#N/A	0	0	0	0	0	0	0.00	**TOTALS**									**TOTALS**	5202	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: H1G

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C.. 42000

Mounting: SURFACE | Voltage: 480Y/277V-3PH 4W | Ground: Equipment Ground
Main Type: MLO | Main Size: 250 AMPS | Lugs: SINGLE
Neutral: 100%

PANEL: H1H — ALL LOADS IN VA

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S
2544							0.00	LTG - WEIGHT/TEAMS	20/1	10	1	A	2	12	15/1	CVB-B1-02-01			828					0.00
1998							0.00	LTG - CORR	20/1	10	3	B	4	12	15/1	CVB-B1-02-02			1127					0.00
2065							0.00	LTG - BOYS LOCKERS	20/1	10	5	C	6	12	15/1	CVB-B1-02-03			828					0.00
2072							0.00	LTG - GIRLS LOCKERS	20/1	10	7	A	8	12	15/1	CVB-B1-02-04			828					0.00
1554							0.00	LTG - 2ND FLR STO	20/1	10	9	B	10	12	15/1	CVB-B1-02-05			1127					0.00
600							0.00	LTG - LANDSCAPE	20/1	10	11	C	12	12	15/1	CVB-B1-02-06			828					0.00
400							0.00	WALLPACKS	20/1	10	13	A	14	12	15/1	CVB-B1-02-07			828					0.00
							0.00				15	B	16	12	15/1	CVB-B1-02-08			1127					0.00
							0.00				17	C	18	12	15/1	CVB-B1-02-09			1127					0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00	OAHU-B1-02 SUPPLY	15/3	12	25	A	26	12	15/3	OAHU-B1-02 EXHAUT								0.00
							0.00	--	--	--	27	B	28	--	--	--								0.00
							0.00	--	--	--	29	C	30	--	--	--								0.00
		903					0.00	AHU-B1-03	15/3	12	31	A	32	10	30/3	DWP-1			5205					0.00
		903					0.00	--	--	--	33	B	34	--	--	--			5205					0.00
		903					0.00	--	--	--	35	C	36	--	--	--			5205					0.00
		903					0.00	AHU-B1-04	15/3	12	37	A	38	SEE	175/3	1TI (112.5 KVA)	0	12280	579	0	0	21945	0	0.00
		903					0.00	--	--	--	39	B	40	RISER	--	--	0	12280	579	0	0	21945	0	0.00
		903					0.00	--	--	--	41	C	42		--	--	0	12280	579	0	0	21945	0	0.00
11233	0	5418	0	0	0	0	0.00	**TOTALS**									**TOTALS**	0	36840	20000	0	0	65836	0	0.00

LOAD SUMMARY

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description
11.2	36.8	31.4	0.0	0.0	65.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
14.0	23.4	31.4	0.0	0.0	65.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	49.3
B	48.7
C	47.3

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	145.3	174.8		134.7	162.0

PANEL: H1H

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C.. 42000

Mounting: SURFACE | Voltage: 480Y/277V-3PH 4W | Ground: Equipment Ground
Main Type: MLO | Main Size: 250 AMPS | Lugs: SINGLE
Neutral: 100%

PANEL: H1I — ALL LOADS IN VA

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S
1382							0.00	LTG - GYM FOH	20/1	12	1	A	2	12	15/1	CVB-B1-02-01			828					0.00
900							0.00	EXT LANDSCAPE LTG	20/1	10	3	B	4	12	15/1	CVB-B1-02-02			1127					0.00
1100							0.00	EXT LANDSCAPE LTG	20/1	10	5	C	6	12	15/1	CVB-B1-02-03			828					0.00
600							0.00	EXT LANDSCAPE LTG	20/1	10	7	A	8	12	15/1	CVB-B1-02-04			828					0.00
1350							0.00	LTG - GYM LOBBY	20/1	10	9	B	10	12	15/1	CVB-B1-02-05			1127					0.00
2820							0.00	LTG - COMP GYM	20/1	10	11	C	12	12	15/1	CVB-B1-02-06			828					0.00
2820							0.00	LTG - COMP GYM	20/1	10	13	A	14	12	15/1	CVB-B1-02-07			828					0.00
							0.00				15	B	16	12	15/1	CVB-B1-02-08			1127					0.00
							0.00				17	C	18											0.00
		2921					0.00	AHU-A2-01	20/3	12	19	A	20											0.00
		2921					0.00	--	--	--	21	B	22											0.00
		2921					0.00	--	--	--	23	C	24											0.00
		5577					0.00	AHU-A2-02	50/3	6	25	A	26											0.00
		5577					0.00	--	--	--	27	B	28											0.00
		5577					0.00	--	--	--	29	C	30											0.00
		5577					0.00	AHU-A2-03	50/3	6	31	A	32	12	15/3	EWH-2A				2992				0.00
		5577					0.00	--	--	--	33	B	34		--	--				2992				0.00
		5577					0.00	--	--	--	35	C	36		--	--				2992				0.00
		2921					0.00	OAHU-A2-01	20/3	12	37	A	38	SEE	50/3	1TI (30 KVA)	0	5873	3145	0	1572	3207	0	0.00
		2921					0.00	--	--	--	39	B	40	RISER	--	--	0	5873	3145	0	1572	3207	0	0.00
		2921					0.00	--	--	--	41	C	42		--	--	0	5873	3145	0	1572	3207	0	0.00
10972	0	50992	0	0	0	0	0.00	**TOTALS**									**TOTALS**	0	17620	16955	8975	4715	9620	0	0.00

LOAD SUMMARY

Ltg.	Receipt	Motor	Heat	Cool	Other	Kitchen	S/S	Description
11.0	17.6	67.9	9.0	4.7	9.6	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
13.7	13.8	67.9	9.0	0.0	9.6	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	41.1
B	39.4
C	39.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	119.8	144.2		114.1	137.2

PANEL: H1I

Date: 12/3/2025 | By: Designer

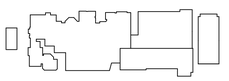
Plot Stamp:
12/3/2025 7:00:14 PM

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FORMS OF LEARNING



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-701

ELECTRICAL PANEL SCHEDULES
EP-702
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: Job Name | Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **H2D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - CLASS, STOR	10	20/1	1	A	2	12	15/1	CVB-E2-01-01			211					0.00
#N/A							0.00	LIGHT - HALL	10	20/1	3	B	4	12	15/1	CVB-E2-01-02			211					0.00
#N/A							0.00	LIGHT - CLASS IDF ELEC	10	20/1	5	C	6	12	15/1	CVB-E2-01-03			211					0.00
							0.00				7	A	8	12	15/1	CVB-E2-01-04			914					0.00
							0.00				9	B	10	12	15/1	CVB-E2-01-05			211					0.00
							0.00				11	C	12	12	15/1	CVB-E2-01-06			211					0.00
							0.00				13	A	14	12	15/1	CVB-E2-01-07			914					0.00
							0.00				15	B	16	12	15/1	CVB-E2-01-08			914					0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
			6316				0.00	OAHU-E2-01	20/3	12	25	A	26											0.00
			6316				0.00	--	--		27	B	28											0.00
			6316				0.00	--	--		29	C	30											0.00
			9141				0.00	AHU-E2-01	20/3	12	31	A	32											0.00
			9141				0.00	--	--		33	B	34											0.00
			9141				0.00	--	--		35	C	36											0.00
			9141				0.00	AHU-F2-01	20/3	12	37	A	38	SEE	125/3	2TD (75 KVA)								0.00
			9141				0.00	--	--		39	B	40	RISER	--	--								0.00
			9141				0.00	--	--		41	C	42		--	--								0.00
#N/A	0	0	73793	0	0	0	0.00	TOTALS								TOTALS	0	0	3795	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	3.8	73.8	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	3.8	73.8	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

Date: 12/3/2025 By: Designer

PANEL: **H2D**

10/22/03

Job: Job Name | Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **H2E** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - CLASS, LIBRARY	10	20/1	1	A	2	12	15/1	CVB-F2-01-01			914					0.00
#N/A							0.00	LIGHT - HALL	10	20/1	3	B	4	12	15/1	CVB-F2-01-02			211					0.00
#N/A							0.00	LIGHT - CLASS BATH	10	20/1	5	C	6	12	15/1	CVB-F2-01-03			1357					0.00
							0.00				7	A	8	12	15/1	CVB-F2-01-04			211					0.00
							0.00				9	B	10	12	15/1	CVB-F2-01-05			914					0.00
							0.00				11	C	12	12	15/1	CVB-F2-01-06			211					0.00
							0.00				13	A	14	12	15/1	CVB-F2-01-07			211					0.00
							0.00				15	B	16	12	15/1	CVB-F2-01-08			914					0.00
							0.00				17	C	18											0.00
			6011				0.00	EWH-2F	30/3	10	19	A	20	20/3	12	OAHU-F2-01			831					0.00
			6011				0.00	--	--		21	B	22	--		--			831					0.00
			6011				0.00	--	--		23	C	24	--		--			831					0.00
			831				0.00	OAHU-F2-01	20/3	12	25	A	26	20/3	12	AHU-F2-02			3047					0.00
			831				0.00	--	--		27	B	28	--		--			3047					0.00
			831				0.00	--	--		29	C	30	--		--			3047					0.00
			3047				0.00	AHU-F2-02	20/3	12	31	A	32	20/3	12	AHU-F2-03			3047					0.00
			3047				0.00	--	--		33	B	34	--		--			3047					0.00
			3047				0.00	--	--		35	C	36	--		--			3047					0.00
			3047				0.00	AHU-F2-03	20/3	12	37	A	38	SEE	125/3	T2E (75 KVA)	0	7240	93	0	0	5940	0	0.00
			3047				0.00	--	--		39	B	40	RISER	--	--	0	7240	93	0	0	5940	0	0.00
			3047				0.00	--	--		41	C	42		--	--	0	7240	93	0	0	5940	0	0.00
#N/A	0	0	38808	0	0	0	0.00	TOTALS								TOTALS	0	21720	25997	0	0	17820	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	21.7	26.0	38.8	0.0	17.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	15.9	26.0	38.8	0.0	17.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

Date: 12/3/2025 By: Designer

PANEL: **H2E**

10/22/03

Job: Job Name | Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **H2F** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - CLASS, IDF	10	20/1	1	A	2	12	15/1	CVB-D2-01-01			914					0.00
#N/A							0.00	LIGHT - CLASS, ELEC	10	20/1	3	B	4	12	15/1	CVB-D2-01-02			914					0.00
							0.00				5	C	6	12	15/1	CVB-D2-01-03			211					0.00
							0.00				7	A	8	12	15/1	CVB-D2-01-04			211					0.00
							0.00				9	B	10	12	15/1	CVB-D2-01-05			914					0.00
							0.00				11	C	12	12	15/1	CVB-D2-01-06			211					0.00
							0.00				13	A	14	12	15/1	CVB-D2-01-07			211					0.00
							0.00				15	B	16	12	15/1	CVB-D2-01-08			211					0.00
							0.00				17	C	18	12	15/1	CVB-D2-01-09			211					0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
		3047					0.00	OAHU-C2-01	20/3	12	25	A	26	12	15/2	RTU-B1					2659			0.00
		3047					0.00	--	--		27	B	28		--	--					2659			0.00
		3047					0.00	--	--		29	C	30		--	--					2659			0.00
		3047					0.00	AHU-C2-01	20/3	12	31	A	32	12	15/2	RTU-B2					2659			0.00
		3047					0.00	--	--		33	B	34		--	--					2659			0.00
		3047					0.00	--	--		35	C	36		--	--					2659			0.00
		3047					0.00	AHU-D2-01	20/3	12	37	A	38	SEE	125/3	2TF (75 KVA)	3047							0.00
		3047					0.00	--	--		39	B	40	RISER	--	--	3047							0.00
		3047					0.00	--	--		41	C	42		--	--	3047							0.00
#N/A	0	27423	0	0	0	0	0.00	TOTALS								TOTALS	9141	0	4005	0	15955	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	31.4	0.0	16.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	31.4	0.0	16.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	18.1

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

Date: 12/3/2025 By: Designer

PANEL: **H2F**

10/22/03

Job: Job Name | Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **H2G** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - CLASS, STOR	10	20/1	1	A	2	12	15/1	CVB-C2-01-01			914					0.00
#N/A							0.00	LIGHT - HALL	10	20/1	3	B	4	12	15/1	CVB-C2-01-02			914					0.00
#N/A							0.00	LIGHT - CLASS, BATH	10	20/1	5	C	6	12	15/1	CVB-C2-01-03			211					0.00
							0.00				7	A	8	12	15/1	CVB-C2-01-04			211					0.00
							0.00				9	B	10	12	15/1	CVB-C2-01-05			914					0.00
							0.00				11	C	12	12	15/1	CVB-C2-01-06			211					0.00
							0.00				13	A	14	12	15/1	CVB-C2-01-07			211					0.00
							0.00				15	B	16	12	15/1	CVB-C2-01-08			211					0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	SEE	125/3	2TG (75 KVA)	0	5160	233	0	0	1280	0	0.00
							0.00				39	B	40	RISER	--	--	0	5160	233	0	0	1280	0	0.00
							0.00				41	C	42		--	--	0	5160	233	0	0	1280	0	0.00
#N/A	0	0	0	0	0	0	0.00	TOTALS								TOTALS	0	15480	4495	0	0	3840	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	15.5	4.5	0.0	0.0	3.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	12.7	4.5	0.0	0.0	3.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

Date: 12/3/2025 By: Designer

PANEL: **H2G**

Job: Job Name | Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **H2H** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2											0.00
							0.00				3	B	4											0.00
							0.00				5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
		831					0.00	OAH-B1-03 EXHAUST	15/3	12	19	A	20	12	15/3	OAHU-B3-02			1275					0.00
		831					0.00	--	--		21	B	22		--				1275					0.00
		831					0.00	--	--		23	C	24		--				1275					0.00
		942					0.00	OAH-B1-03 SUPPLY	15/3	12	25	A	26	10	25/3	AHU-B3-03			2921					0.00
		942					0.00	--	--		27	B	28		--	--			2921					0.00
		942					0.00	--	--		29	C	30		--	--			2921					0.00
		831					0.00	OAH-B1-02 EXHAUST	15/3	12	31	A	32	10	25/3	AHU-B3-04			2921					0.00
		831					0.00	--	--		33	B	34		--	--			2921					0.00
		831					0.00	--	--		35	C	36		--	--			2921					0.00
		942					0.00	OAH-B1-02 SUPPLY	15/3	12	37	A	38	SEE	50/3	T2H (30 KVA)	0	2400	4333	0	6336	2267	0	0.00
		942					0.00	--	--		39	B	40	RISER	--		0	2400	4333	0	6336	2267	0	0.00
		942					0.00	--	--		41	C	42		--		0	2400	4333	0	6336	2267	0	0.00
0	0	10637	0	0	0	0	0.00	TOTALS								TOTALS	0	7200	34353	0	19007	6800	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	7.2	45.0	0.0	19.0	6.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	7.2	45.0	0.0	19.0	6.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	26.0
B	26.0
C	26.0

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	78.0	93.8		78.0	93.8

Date: 12/3/2025 By: Designer

PANEL: **H2H**

10/22/03

Job: Job Name | Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **H3A** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
1887							0.00	LIGHT - CLASS, PREP	20/1	10	1	A	2	12	20/1	CVB-E3-01-01			943					0.00
666							0.00	LIGHT - HALL	20/1	10	3	B	4	12	20/1	CVB-E3-01-02			943					0.00
1806							0.00	LIGHT - CLASS PREP BATH	20/1	10	5	C	6	12	20/1	CVB-E3-01-03A			943					0.00
							0.00				7	A	8	12	20/1	CVB-E3-01-03B			690					0.00
							0.00				9	B	10	12	20/1	CVB-E3-01-04A			943					0.00
							0.00				11	C	12	12	20/1	CVB-E3-01-04B			690					0.00
							0.00				13	A	14	12	20/1	CVB-E3-01-05A			690					0.00
							0.00				15	B	16	12	20/1	CVB-E3-01-05B			943					0.00
							0.00				17	C	18	12	20/1	CVB-E3-01-06A			690					0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00	RTU-E1	20/3	2	37	A	38	SEE	125/3	3TA (75 KVA)	0	7140	2921	0	0	1680	0	0.00
							0.00				39	B	40	RISER	--	--	0	7140	2921	0	0	1680	0	0.00
							0.00				41	C	42		--	--	0	7140	2921	0	0	1680	0	0.00
4359	0	0	0	0	0	0	0.00	TOTALS								TOTALS	0	21420	16239	0	0	5040	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
4.4	21.4	16.2	0.0	0.0	5.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
5.4	15.7	16.2	0.0	0.0	5.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	16.0
B	15.2
C	15.9

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	47.1	56.6		42.4	51.0

Date: 12/3/2025 By: Designer

PANEL: **H3A**

10/22/03

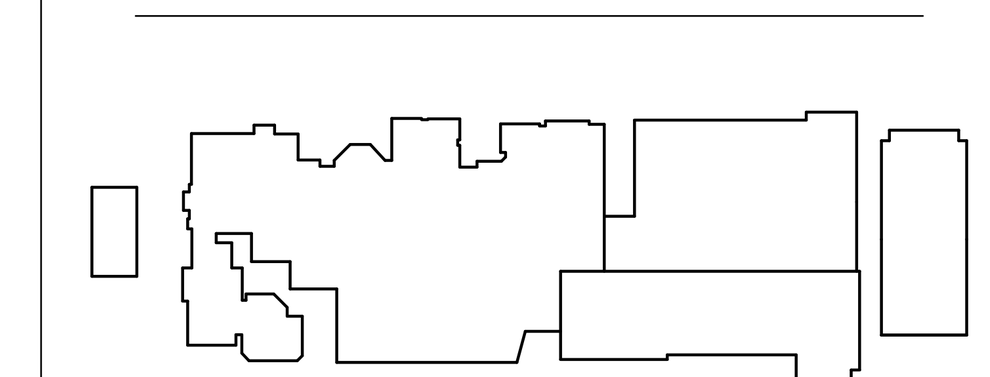
PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL, FOR ALL, BY ALL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-702

Plot Stamp:
12/3/2025 7:00:15 PM

ELECTRICAL PANEL SCHEDULES
EP-703
FOR BLUEBEAM LABELING/OCR:

0" 1"

Job: Job Name Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: H3B — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
1404							0.00	LIGHT - CLASS, STOR	20/1	10	1	A	2	12	20/1	CVB-F3-01-01			690					0.00
648							0.00	LIGHT - HALL	20/1	10	3	B	4	12	20/1	CVB-F3-01-02			690					0.00
1396							0.00	LIGHT - CLASS, MECH, IT	20/1	10	5	C	6	12	20/1	CVB-F3-01-03A			943					0.00
							0.00				7	A	8	12	20/1	CVB-F3-01-03B			943					0.00
							0.00				9	B	10	12	20/1	CVB-F3-01-04			943					0.00
							0.00				11	C	12	12	20/1	CVB-F3-01-05			943					0.00
							0.00				13	A	14	12	20/1	CVB-F3-01-06			943					0.00
							0.00				15	B	16	12	20/1	CVB-F3-01-07			943					0.00
							0.00				17	C	18	12	20/1	CVB-E3-01-06B			690					0.00
		2018					0.00	OAHU-E3-01-EF	20/3	12	19	A	20											0.00
		2018					0.00		--		21	B	22											0.00
		2018					0.00		--		23	C	24											0.00
		3718					0.00	OAHU-E3-01-SF	30/3	10	25	A	26											0.00
		3718					0.00		--		27	B	28											0.00
		3718					0.00		--		29	C	30											0.00
		3718					0.00	AHU-E3-01	30/3	10	31	A	32	12	15/3	RTU-F1					3324			0.00
		3718					0.00	--	--		33	B	34		--						3324			0.00
		3718					0.00	--	--		35	C	36		--						3324			0.00
		3718					0.00	AHU-F3-01	30/3	10	37	A	38	SEE	125/3	3TB (75 KVA)	0	7980	2816	0	0	1960	0	0.00
		3718					0.00	--	--		39	B	40	RISER	--	--	0	7980	2816	0	0	1960	0	0.00
		3718					0.00	--	--		41	C	42		--	--	0	7980	2816	0	0	1960	0	0.00
3448	0	39518	0	0	0	0	0.00	TOTALS								TOTALS	0	23940	16176	0	9972	5880	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
3.4	23.9	55.7	0.0	10.0	5.9	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
4.3	17.0	55.7	0.0	10.0	5.9	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	33.2
B	32.5
C	33.2

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	98.9	119.0		92.8	111.7

PANEL: H3B
Date: 12/3/2025 By: Designer 10/22/03

Job: Job Name Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: H3C — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
1468							0.00	LIGHT - CLASS, IDF	20/1	10	1	A	2	12	15/1	CVB-D3-01-01			942					0.00
1396							0.00	LIGHT - CLASS, ELEC	20/1	10	3	B	4	12	15/1	CVB-D3-01-02A			942					0.00
							0.00				5	C	6	12	15/1	CVB-D3-01-02B			693					0.00
							0.00				7	A	8	12	15/1	CVB-D3-01-03			942					0.00
							0.00				9	B	10	12	15/1	CVB-D3-01-04A			693					0.00
							0.00				11	C	12	12	15/1	CVB-D3-01-04B			942					0.00
		582					0.00				13	A	14	12	15/1	CVB-D3-01-05			942					0.00
		582					0.00				15	B	16	12	15/1	CVB-C3-01-06A			693					0.00
		582					0.00				17	C	18	12	15/1	CVB-C3-01-06B			942					0.00
		2921					0.00	OAHU-C3-01-EF	20/3	12	19	A	20											0.00
		2921					0.00		--		21	B	22											0.00
		2921					0.00		--		23	C	24											0.00
		3718					0.00	OAHU-C3-01-SF	30/3	10	25	A	26											0.00
		3718					0.00		--		27	B	28											0.00
		3718					0.00		--		29	C	30											0.00
		3718					0.00	AHU-C3-01	30/3	10	31	A	32	12	15/3	EF-C3-08			582					0.00
		3718					0.00	--	--		33	B	34		--	--			582					0.00
		3718					0.00	--	--		35	C	36		--	--			582					0.00
		3718					0.00	AHU-D3-01	30/3	10	37	A	38	SEE	125/3	3TC (75 KVA)	0	9220	2528	0	0	2549	0	0.00
		3718					0.00	--	--		39	B	40	RISER	--	--	0	9220	2528	0	0	2549	0	0.00
		3718					0.00	--	--		41	C	42		--	--	0	9220	2528	0	0	2549	0	0.00
2864	0	43972	0	0	0	0	0.00	TOTALS								TOTALS	0	27660	17057	0	0	7648	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
2.9	27.7	61.0	0.0	0.0	7.6	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
3.6	18.8	61.0	0.0	0.0	7.6	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	33.8
B	33.3
C	32.1

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	99.2	119.3		91.1	109.6

PANEL: H3C
Date: 12/3/2025 By: Designer 10/22/03

Job: Job Name Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: H3D — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
1620							0.00	LIGHT - CLASS, STOR	20/1	10	1	A	2	12	15/1	CVB-C3-01-01			1108					0.00
540							0.00	LIGHT - HALL	20/1	10	3	B	4	12	15/1	CVB-C3-01-02			1108					0.00
1396							0.00	LIGHT - CLASS, MECH, IT	20/1	10	5	C	6	12	15/1	CVB-C3-01-03A			1108					0.00
							0.00				7	A	8	12	15/1	CVB-C3-01-03B			831					0.00
							0.00				9	B	10	12	15/1	CVB-C3-01-04A			831					0.00
							0.00				11	C	12	12	15/1	CVB-C3-01-04B			831					0.00
							0.00				13	A	14	12	15/1	CVB-C3-01-05A			831					0.00
							0.00				15	B	16	12	15/1	CVB-C3-01-05B			831					0.00
							0.00				17	C	18											0.00
											19	A	20											0.00
											21	B	22											0.00
											23	C	24											0.00
		582						EF-C3-07	15/3	12	25	A	26											0.00
		582						--	--		27	B	28											0.00
		582						--	--		29	C	30											0.00
		582						EF-C3-08	15/3	12	31	A	32											0.00
		582						--	--		33	B	34											0.00
		582						--	--		35	C	36											0.00
				3767				RTU-C1	20/3	12	37	A	38	SEE	125/3	3TD (75 KVA)	0	8780	3726	0	0	640	0	0.00
				3767				--	--		39	B	40	RISER	--	--	0	8780	3726	0	0	640	0	0.00
				3767				--	--		41	C	42		--	--	0	8780	3726	0	0	640	0	0.00
3556	0	3490	0	11302	0	0	0.00	TOTALS								TOTALS	0	26340	18658	0	0	1920	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
3.6	26.3	22.1	0.0	11.3	1.9	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
4.4	18.2	22.1	0.0	11.3	1.9	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	22.5
B	21.4
C	21.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	65.3	78.5		58.0	69.7

PANEL: H3D
Date: 12/3/2025 By: Designer 10/22/03

Job: Job Name Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 125 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: H3E — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2											0.00
							0.00				3	B	4											0.00
							0.00				5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
		1330					0.00	AHU-B1-01	15/3	12	13	A	14											0.00
		1330					0.00	--	--		15	B	16											0.00
		1330					0.00	--	--		17	C	18											0.00
		3878					0.00	AHU-B1-02	35/3	8	19	A	20											0.00
		3878					0.00	--	--		21	B	22											0.00
		3878					0.00	--	--		23	C	24											0.00
		2105					0.00	AHU-B2-01	20/3	12	25	A	26											0.00
		2105					0.00	--	--		27	B	28	12	15/3	EWH-3B			2496					0.00
		2105					0.00	--	--		29	C	30		--				2496					0.00
		3047					0.00	AHU-B3-01	25/3	10	31	A	32	12	20/3	OAHU-B1-01			2105					0.00
		3047					0.00	--	--		33	B	34		--	--			2105					0.00
		3047					0.00	--	--		35	C	36		--	--			2105					0.00
		3047					0.00	AHU-B3-02	25/3	10	37	A	38	12	15/3	OAHU-B3-01			2105					0.00
		3047					0.00	--	--		39	B	40		--	--			2105					0.00
		3047					0.00	--	--		41	C	42		--	--			2105					0.00
0	0	40220	0	0	0	0	0.00	TOTALS								TOTALS	0	0	17623	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	57.8	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	57.8	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	17.6
B	20.1
C	20.1

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	57.8	69.6		57.8	69.6

PANEL: H3E
Date: 12/3/2025 By: Designer 10/22/03

Job: Job Name Job No. Job Number
Mounting SURFACE | Main Type MLO | Neutral 100%
Voltage: 480Y/277V-3PH 4W | Main Size: 250 AMPS
AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: H4A — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2	12	20/1	LIGHT - MECH RM								0.00
							0.00				3	B	4											0.00
							0.00				5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
		6094					0.00	OAHU-MP-01	40/3	8	25	A	26											0.00
		6094					0.00	--	--		27	B	28											0.00
		6094					0.00	--	--		29	C	30											0.00
		7756					0.00	AHU-MP-01	50/3	6	31	A	32											0.00
		7756					0.00	--	--		33	B	34											0.00
		7756					0.00	--	--		35	C	36											0.00
		7756					0.00	AHU-MP-02	50/3	6	37	A	38	SEE	50/3	4TA (30 KVA)								0.00
		7756					0.00	--	--		39	B	40	RISER	--	--								0.00
		7756					0.00	--	--		41	C	42		--	--								0.00
0	0	64818	0	0	0	0	0.00	TOTALS								TOTALS	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	64.8	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	64.8	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	21.6
B	21.6
C	21.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	64.8	78.0		64.8	78.0

PANEL: H4A
Date: 12/3/2025 By: Designer 10/22/03

Job: GPISD Phase 3b Job No. 240539
Mounting SURFACE | Main... MLO | Neutral 200%
Voltage: 480Y/277V-3PH 4W | Main... 400 AMPS
AIC... | Ground Equipment Ground | Lugs SINGLE

PANEL: (E)H1M — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		9418					0.00	SHWP-01	50/3	6	1	A	2	(E)	60/3	(E)HXP-1			7479					0.00
		9418					0.00	--	--		3	B	4	--	--	--			7479					0.00
		9418					0.00	--	--		5	C	6	--	--	--			7479					0.00
		9418					0.00	SHWP-02	50/3	6	7	A	8		15/3	SPARE								1.00
		9418					0.00	--	--		9	B	10											0.00
		9418					0.00	--	--		11	C	12											0.00
		1163					0.00	FCU-H1-01	15/3	12	13	A	14	(E)	45/3	(E)PCHP-1			5817					0.00
		1163					0.00	--	--		15	B	16	--	--	--			5817					0.00
		1163					0.00	--	--		17	C	18	--	--	--			5817					0.00
		11634					0.00	DWP-1	70/3	1	19	A	20	(E)	60/3	(E)SCHP-1			7479					0.00
		11634					0.00		--		21	B	22	--	--	--			7479					0.00
		11634					0.00		--		23	C	24	--	--	--			7479					0.00
							1.00	SPARE	15/3	(E)	25	A	26											0.00
							0.00	--	--	--	27	B	28											0.00
							0.00	--	--	--	29	C	30											0.00
							1.00	SPARE	45/3	(E)	31	A	32											0.00
							0.00	--	--	--	33	B	34											0.00
							0.00	--	--	--	35	C	36											0.00
							1.00	SPARE	60/3	(E)	37	A	38	(E)	40/3	(E)AHU-1								0.00
							0.00	--	--	--	39	B	40	--	--	--								0.00
							0.00	--	--	--	41	C	42	--	--	--								0.00
0	0	94900	0	0	0	0	3.00	TOTALS								TOTALS	0	0	62325	0	0	0	0	1.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	157.2	0.0	0.0	0.0	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	157.2	0.0	0.0	0.0	0.0	2.0	Design KVA

Phase Load

Ph	KVA
A	52.4
B	52.4
C	52.4

Panel Remarks:

*Input di...
**100% ...

0

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	161.2	193.9		159.2	191.5

PANEL: (E)H1M
Date: 12/3/2025 By: Designer 10/22/03

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

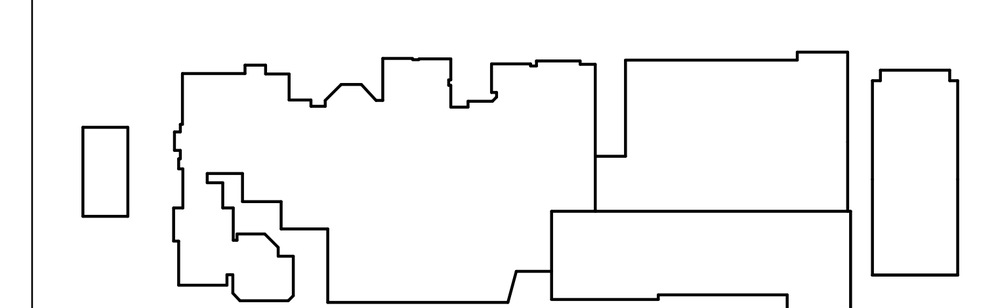
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD — EXCELLENCE IN ALL, FOR ALL, BY ALL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE December 5, 2025 | PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-703

Plot Stamp:
12/3/2025 7:00:16 PM

ELECTRICAL PANEL SCHEDULES
EP-704
FOR BLUEBEAM LABELING/DOCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Voltage: **208Y/120V-3PH 4W** — Ground **Equipment Ground**

Main... **MCB (225A)** — Main... **225 AMPS** — Lugs **FEED THRU**

Neutral **200%**

PANEL: **L1D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - LIFE A	20/1	12	**1**	**A**	**2**	12	20/1	RECP - RESOURCE A		540						0.00
	540						0.00	RECP - LIFE B	20/1	12	**3**	**B**	**4**	12	20/1	RECP - RESOURCE B		540						0.00
	720						0.00	RECP - LIFE C	20/1	12	**5**	**C**	**6**	12	20/1	RECP - RESOURCE C		720						0.00
	540						0.00	RECP - RRS, LAUNDRY	20/1	12	**7**	**A**	**8**	12	20/1	RECP - BEHAV #1 A		540						0.00
	540						0.00	RECP - MOCK A	20/1	12	**9**	**B**	**10**	12	20/1	RECP - BEHAV #1 B		540						0.00
	540						0.00	RECP - MOCK B	20/1	12	**11**	**C**	**12**	12	20/1	RECP - BEHAV #1 C		720						0.00
	1200						0.00	RECP - MOCK C	20/1	12	**13**	**A**	**14**	12	20/1	RECP - STOR		360						0.00
	180						0.00	RECP - MOCK D	20/1	12	**15**	**B**	**16**	12	20/1	RECP - BEHAV #2 A		540						0.00
	180						0.00	RECP - MOCK E	20/1	12	**17**	**C**	**18**	12	20/1	RECP - BEHAV #2 B		540						0.00
	180						0.00	RECP - MOCK F	20/1	12	**19**	**A**	**20**	12	20/1	RECP - BEHAV #2 C		720						0.00
							0.00	RECP - 18+ A	20/1	12	**21**	**B**	**22**	12	20/1	RECP - COLAB A		360						0.00
	540						0.00	RECP - 18+ B	20/1	12	**23**	**C**	**24**	12	20/1	RECP - COLAB B		360						0.00
	540						0.00	RECP - 18+ C	20/1	12	**25**	**A**	**26**	12	20/1	RECP - COLAB PROJ		1200						0.00
	720						0.00	RECP - 18+ D	20/1	12	**27**	**B**	**28**		20/1	SPARE								1.00
	540						0.00	RECP - 18+ E	20/1	12	**29**	**C**	**30**	10	20/1	RECP - MULTI		540						0.00
	720						0.00	RECP - LIFT	20/1	12	**31**	**A**	**32**	12	20/1	RECP - HALL		540						0.00
	540						0.00	RECP - LIFE A	20/1	12	**33**	**B**	**34**	12	20/1	RECP - WATER FOUN		1200						0.00
	540						0.00	RECP - LIFE B	20/1	12	**35**	**C**	**36**	12	20/1	RECP - RESTROOM		540						0.00
	720						0.00	RECP - LIFE C	20/1	12	**37**	**A**	**38**	10	30/3	SPD								0.00
	360						0.00	RECP - STOR. ELEC	20/1	12	**39**	**B**	**40**	-	-	-								0.00
							1.00	SPARE	20/1		**41**	**C**	**42**	-	-	-								0.00
0	10380	0	0	0	0	0	1.00	**TOTALS**								**TOTALS**	0	10500	0	0	0	0	0	1.00

PANEL: **L1D** **2** **(Sectio...**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1200		0.00	WASHER #2(1)	20/1	12	**43**	**A**	**44**	12	20/1	CONTACOTR CS						100		0.00
					2496		0.00	DRYER #2(1)	30/2	10	**45**	**B**	**46**											0.00
					2496		0.00	--	--	--	**47**	**C**	**48**											0.00
					4160		0.00	RANGE(1)	50/3		**49**	**A**	**50**											0.00
					4160		0.00	--	--		**51**	**B**	**52**											0.00
					500		0.00	FRIDGE(1)	20/1	12	**53**	**C**	**54**											0.00
					500		0.00	FRIDGE(1)	20/1	12	**55**	**A**	**56**											0.00
					500		0.00	FREEZER(1)	20/1	12	**57**	**B**	**58**											0.00
							0.00				**59**	**C**	**60**											0.00
							0.00				**61**	**A**	**62**											0.00
							0.00				**63**	**B**	**64**											0.00
							0.00				**65**	**C**	**66**											0.00
							0.00				**67**	**A**	**68**											0.00
							0.00				**69**	**B**	**70**											0.00
							0.00				**71**	**C**	**72**											0.00
							0.00				**73**	**A**	**74**											0.00
							0.00				**75**	**B**	**76**											0.00
							0.00				**77**	**C**	**78**											0.00
							0.00				**79**	**A**	**80**											0.00
							0.00				**81**	**B**	**82**											0.00
		180					0.00	VAV-E1-01-01	15/1	12	**83**	**C**	**84**	20/1	6	NANA WALL				1500				0.00
0	0	180	0	0	16012	0	0.00	**TOTALS**								**TOTALS**	0	0		1500	0	0	100	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	20.9	1.7	0.0	0.0	16.1	0.0	2.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.4	1.7	0.0	0.0	16.1	0.0	1.0	Design KVA

Phase Load	
Ph	KVA
A	14.3
B	13.2
C	11.2

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	40.7	112.9		34.2	95.0

PANEL: **L1D**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Voltage: **208Y/120V-3PH 4W** — Ground **Equipment Ground**

Main... **MCB (225A)** — Main... **225 AMPS** — Lugs **FEED THRU**

Neutral **200%**

PANEL: **L1E** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - LIFE A	20/1	12	**1**	**A**	**2**	12	20/1	RECP - MECH		540						0.00
	900						0.00	RECP - LIFE B	20/1	12	**3**	**B**	**4**	12	20/1	RECP - DIAG		720						0.00
	540						0.00	RECP - LIFE C	20/1	12	**5**	**C**	**6**	12	20/1	RECP - COOR		720						0.00
	720						0.00	RECP - TEMP CHOIR A	20/1	12	**7**	**A**	**8**	12	20/1	RECP - LSSP		720						0.00
	540						0.00	RECP - TEMP CHOIR B	20/1	12	**9**	**B**	**10**	12	20/1	RECP - CLERK		360						0.00
	540						0.00	RECP - TEMP CHOIR C	20/1	12	**11**	**C**	**12**	12	20/1	RECP - ARD CONF A		540						0.00
	540						0.00	RECP - TEMP CHOIR D	20/1	12	**13**	**A**	**14**	12	20/1	RECP - ARD CONF B		720						0.00
	900						0.00	RECP - SCHOOL BOOK	20/1	12	**15**	**B**	**16**	12	20/1	RECP - SPEECH		720						0.00
	1260						0.00	RECP - TEST, STOR	20/1	12	**17**	**C**	**18**	12	20/1	RECP - RR, STOR		360						0.00
	540						0.00	RECP - PLCWORK A	20/1	12	**19**	**A**	**20**		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK B	20/1	12	**21**	**B**	**22**		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK C	20/1	12	**23**	**C**	**24**		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK D	20/1	12	**25**	**A**	**26**	12	20/1	RECP - HALL, ELEC		1080						0.00
	180						0.00	RECP - PLCWORK E	20/1	12	**27**	**B**	**28**	10	20/1	RECP - MULTI		720						0.00
	180						0.00	RECP - PLCWORK F	20/1	12	**29**	**C**	**30**		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK G	20/1	12	**31**	**A**	**32**		20/1	SPARE								1.00
	720						0.00	RECP - TEST OFF	20/1	12	**33**	**B**	**34**	12	20/1	RECP - ELEV CONV		180						0.00
	720						0.00	RECP - TEMP BAND A	20/1	12	**35**	**C**	**36**	12	20/1	RECP - ELEV SUMP			360					0.00
	720						0.00	RECP - TEMP BAND B	20/1	12	**37**	**A**	**38**	10	30/3	SPD								0.00
	720						0.00	RECP - TEMP BAND C	20/1	12	**39**	**B**	**40**	-	-	-								0.00
							0.00	SPACE					**41**	**C**	**42**	-	-	-							0.00
0	11160	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	7380	360	0	0	0	0	5.00

PANEL: **L1E** **2** **(Sectio...**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					500		0.00	RECP - REFRIG(1)	20/1	12	**43**	**A**	**44**	12	20/1	RECP - COMP LAB A		720						0.00
					1200		0.00	RECP - COPIER(1)	20/1	12	**45**	**B**	**46**	12	20/1	RECP - COMP LAB B		720						0.00
							0.00	RECP - COPIER SPEC(1)	20/2	12	**47**	**C**	**48**	12	20/1	RECP - COMP LAB C		360						0.00
							0.00	--	--	--	**49**	**A**	**50**	12	20/1	RECP - COMP LAB D		360						0.00
					1200		0.00	RECP - COPIER	20/1	12	**51**	**B**	**52**	12	20/1	RECP - COMP LAB E		360						0.00
					1200		0.00	RECP - COPIER SPEC	20/2	12	**53**	**C**	**54**	12	20/1	RECP - COMP LAB F		360						0.00
							0.00	--	--	--	**55**	**A**	**56**	12	20/1	RECP - COMP LAB G		360						0.00
					1200		0.00	RECP - WATER FOUNT	20/1	12	**57**	**B**	**58**	12	20/1	RECP - COMP LAB H		360						0.00
							0.00				**59**	**C**	**60**	12	20/1	RECP - COMP LAB I		360						0.00
							0.00				**61**	**A**	**62**	12	20/1	RECP - COMP LAB J		360						0.00
							0.00				**63**	**B**	**64**	12	20/1	RECP - COMP LAB K		360						0.00
							0.00				**65**	**C**	**66**	12	20/1	RECP - COMP LAB L		360						0.00
							0.00				**67**	**A**	**68**											0.00
							0.00				**69**	**B**	**70**											0.00
							0.00				**71**	**C**	**72**											0.00
							0.00				**73**	**A**	**74**											0.00
					1200		0.00	UV OAHU-E1-01	20/1	12	**75**	**B**	**76**											0.00
					1200		0.00	UV AHU-E1-01	20/1	12	**77**	**C**	**78**											0.00
					1200		0.00	UV AHU-F1-01	20/1	12	**79**	**A**	**80**											0.00
					360		0.00	BAS PANEL	20/1	12	**81**	**B**	**82**											0.00
		180					0.00	VAV-F1-01-01	15/1	12	**83**	**C**	**84**	12	20/1	TRAP PRIMER							180	0.00
0	0	180	0	0	9260	0	0.00	**TOTALS**								**TOTALS**	0	5040	0	0	0	0	180	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	23.6	0.5	0.0	0.0	9.4	0.0	5.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	16.8	0.5	0.0	0.0	9.4	0.0	2.5	Design KVA

Phase Load	
Ph	KVA
A	10.0
B	13.8
C	9.8

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	38.6	107.0		29.3	81.2

PANEL: **L1E**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Voltage: **208Y/120V-3PH 4W** — Ground **Equipment Ground**

Main... **MCB (225A)** — Main... **225 AMPS** — Lugs **FEED THRU**

Neutral **200%**

PANEL: **L1F** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - ENGL #4 A	20/1	12	**1**	**A**	**2**	12	20/1	RECP - ENGL #12 A		540						0.00
	540						0.00	RECP - ENGL #4 B	20/1	12	**3**	**B**	**4**	12	20/1	RECP - ENGL #12 B		900						0.00
	720						0.00	RECP - ENGL #4 C	20/1	12	**5**	**C**	**6**	12	20/1	RECP - ENGL #12 C		540						0.00
	540						0.00	RECP - ENGL #3 A	20/1	12	**7**	**A**	**8**	12	20/1	RECP - ENGL #13 A		540						0.00
	540						0.00	RECP - ENGL #3 B	20/1	12	**9**	**B**	**10**	12	20/1	RECP - ENGL #13 B		900						0.00
	720						0.00	RECP - ENGL #3 C	20/1	12	**11**	**C**	**12**	12	20/1	RECP - ENGL #13 C		540						0.00
	540						0.00	RECP - ENGL #2 A	20/1	12	**13**	**A**	**14**	12	20/1	RECP - BREAK #1		180						0.00
	540						0.00	RECP - ENGL #2 B	20/1	12	**15**	**B**	**16**	12	20/1	RECP - BREAK #2		180						0.00
	720						0.00	RECP - ENGL #2 C	20/1	12	**17**	**C**	**18**	12	20/1	RECP - BREAK #3		1200						0.00
	540						0.00	RECP - ENGL #1 A	20/1	12	**19**	**A**	**20**	12	20/1	RECP - BREAK #4		180						0.00
	540						0.00	RECP - ENGL #1 B	20/1	12	**21**	**B**	**22**	12	20/1	RECP - BREAK #5		720						0.00
	720						0.00	RECP - ENGL #1 C	20/1	12	**23**	**C**	**24**	12	20/1	RECP - FRIDGE(1)		900						0.00
							0.00	RECP - SRO, TECH	20/1	12	**25**	**A**	**26**	12	20/1	RECP - COPY		1200						0.00
							1.00	SPARE	20/1		**27**	**B**	**28**	12	20/2	RECP - COPY SPEC							1664	0.00
							1.00	SPARE	20/1		**29**	**C**	**30**	--	--	--							1664	0.00
							1.00	SPARE	20/1		**31**	**A**	**32**											0.00
	720						0.00	RECP - MECH, ELEC	20/1	12	**33**	**B**	**34**											0.00
	720						0.00	RECP - HALL	20/1	12	**35**	**C**	**36**											0.00
	900						0.00	RECP - MULTI, LOBBY	20/1	10	**37**	**A**	**38**	10	30/3	SPD								0.00
							1.00	SPARE	20/1		**39**	**B**	**40**	-	-	-								0.00
							1.00	SPARE	20/1		**41**	**C**	**42**	-	-	-								0.00
0	9540	0	0	0	0	0	5.00	**TOTALS**								**TOTALS**	0	8520	0	0	0	0	3328	0	0.00

PANEL: **L1F** **2** **(Sectio...**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - TEMP CLASS A	20/1	12	**43**	**A**	**44**											0.00
	540						0.00	RECP - TEMP CLASS B	20/1	12	**45**	**B**	**46**											0.00
	360						0.00	RECP - TEMP CLASS C	20/1	12	**47**	**C**	**48**											0.00
	360						0.00	RECP - TEMP CLASS D	20/1	12	**49**	**A**	**50**											0.00
	360						0.00	RECP - TEMP CLASS E	20/1	12	**51**	**B**	**52**											0.00
	360						0.00	RECP - TEMP CLASS F	20/1	12	**53**	**C**	**54**											0.00
	360						0.00	RECP - TEMP CLASS G	20/1	12	**55**	**A**	**56**											0.00
	360						0.00	RECP - TEMP CLASS H	20/1	12	**57**	**B**	**58**											0.00
	360						0.00	RECP - TEMP CLASS I	20/1	12	**59**	**C**	**60**											0.00
	360						0.00	RECP - TEMP CLASS J	20/1	12	**61**	**A**	**62**											0.00
	360						0.00	RECP - TEMP CLASS K	20/1	12	**63**	**B**	**64**											0.00
	360						0.00	RECP - TEMP CLASS L	20/1	12	**65**	**C**	**66**											0.00
							0.00				**67**	**A**	**68**											0.00
							0.00				**69**	**B**	**70**											0.00
							0.00				**71**	**C**	**72**											0.00
							0.00				**73**	**A**	**74**											0.00
					1200		0.00	UV OAHU-C1-01	20/1	12	**75**	**B**	**76**											0.00
					1200		0.00	UV AHU-C1-01	20/1	12	**77**	**C**	**78**											0.00
					1200		0.00	UV AHU-01-01	20/1	12	**79**	**A**	**80**											0.00
		180					0.00	VAV-01-01-01	15/1	12	**83**	**C**	**84**	12	20/1	BAS PANEL							180	0.00
0	4680	180	0	0	3600	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	180	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	22.7	0.2	0.0	0.0	7.1	0.0	5.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	16.4	0.2	0.0	0.0	7.1	0.0	2.5	Design KVA

Phase Load	
Ph	KVA
A	8.5
B	10.1
C	11.4

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	35.0	97.2		26.2	72.6

PANEL: **L1F**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Voltage: **208Y/120V-3PH 4W** — Ground **Equipment Ground**

Main... **MCB (225A)** — Main... **225 AMPS** — Lugs **FEED THRU**

Neutral **200%**

PANEL: **L1G** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - ENGL #8 A	20/1	12	**1**	**A**	**2**	12	20/1	RECP - ENGL #9 A		540						0.00
	900						0.00	RECP - ENGL #8 B	20/1	12	**3**	**B**	**4**	12	20/1	RECP - ENGL #9 B		900						0.00
	540						0.00	RECP - ENGL #8 C	20/1	12	**5**	**C**	**6**	12	20/1	RECP - ENGL #9 C		540						0.00
	900						0.00	RECP - ENGL #7 A	20/1	12	**7**	**A**	**8**	12	20/1	RECP - ENGL #10 A		540						0.00
	900						0.00	RECP - ENGL #7 B	20/1	12	**9**	**B**	**10**	12	20/1	RECP - ENGL #10 B		900						0.00
	540						0.00	RECP - ENGL #7 C	20/1	12	**11**	**C**	**12**	12	20/1	RECP - ENGL #10 C		540						0.00
	540						0.00	RECP - ENGL #6 A	20/1	12	**13**	**A**	**14**	12	20/1	RECP - ENGL #11 A		540						0.00
	900						0.00	RECP - ENGL #6 B	20/1	12	**15**	**B**	**16**	12	20/1	RECP - ENGL #11 B		900						0.00
	540						0.00	RECP - ENGL #6 C	20/1	12	**17**	**C**	**18**	12	20/1	RECP - ENGL #11 C		540						0.00
	540						0.00	RECP - ENGL #5 A	20/1	12	**19**	**A**	**20**		20/1	SPARE								1.00
	900						0.00	RECP - ENGL #5 B	20/1	12	**21**	**B**	**22**		20/1	SPARE								1.00
	540						0.00	RECP - ENGL #5 C	20/1	12	**23**	**C**	**24**		20/1	SPARE								1.00
							0.00	SPACE					**25**	**A**	**26**										1.00
							0.00	SPACE					**27**	**B**	**28**										1.00
							0.00	SPACE					**29**	**C**	**30**										1.00
	360						0.00	RECP - ELEC, STO	20/1	12	**31**	**A**	**32**											0.00
	180						0.00	RECP - FLEX RM	20/1	12	**33**	**B**	**34**											0.00
	720						0.00	RECP - MULTIPURPOSE	20/1	10	**35**	**C**	**36**	12	20/1	CONTACTOR C4							100	0.00
	540						0.00	RECP - HALL	20/1	12	**37**	**A**	**38**	10	30/3	SPD								0.00
	720						0.00	RECP - WATER FOUN	20/1	12	**39**	**B**	**40**	-	-	-								0.00
	540						0.00	RECP - RESTROOM	20/1	12	**41**	**C**	**42**	-	-	-								0.00
0	10980	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	5940	0	0	0	0	100	0	6.00

PANEL: **L1G** **2** **(Sectio...**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				**43**	**A**	**44**											0.00
							0.00				**45**	**B**	**46**											0.00
							0.00				**47**	**C**	**48**											0.00
							0.00				**49**	**A**	**50**											0.00
							0.00				**51**	**B**	**52**											0.00
							0.00				**53**	**C**	**54**											0.00
							0.00				**55**	**A**	**56**											0.00
							0.00				**57**	**B**	**58**											0.00
							0.00				**59**	**C**	**60**											0.00
							0.00				**61**	**A**	**62**											0.00
							0.00				**63**	**B**	**64**											0.00
							0.00				**65**	**C**	**66**											0.00
							0.00				**67**	**A**	**68**											0.00
							0.00				**69**	**B**	**70**											0.00
							0.00				**71**	**C**	**72**											0.00
							0.00				**73**	**A**	**74**											0.00
							0.00				**75**	**B**	**76**											0.00
							0.00				**77**	**C**	**78**											0.00
							0.00				**79**	**A**	**80**											0.00
							0.00				**81**	**B**	**82**											0.00
	180						0.00	VAV-C1-01-01	20/1	12	**83**	**C**	**84**											0.00
0

ELECTRICAL PANEL SCHEDULES
EP-705
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting: SURFACE — Main... MCB (400A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 400 AMPS — Ground: Equipment Ground — Lugs: FEED THRU

PANEL: L1H — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	720						0.00	RECP - TRAINERS	20/1	12	1	A	2	12	20/1	RECP - VEND MACH #1(1)						1200		0.00
	540						0.00	RECP - CART STOR	20/1	12	3	B	4	12	20/1	RECP - VEND MACH #2(1)						1200		0.00
	1920						0.00	RECP - CART CHARGE	20/1	12	5	C	6	12	20/1	RECP - VEND MACH #3(1)						1200		0.00
	540						0.00	RECP - CUSTODIAL	20/1	12	7	A	8	12	20/1	RECP - WATER FOUNT #1						1200		0.00
	1080						0.00	RECP - TEAM RM 1519	20/1	12	9	B	10	12	20/1	RECP - WATER FOUNT #2						1200		0.00
	1080						0.00	RECP - TEAM RM 1526	20/1	12	11	C	12	12	20/1	RECP - WATER FOUNT #3						1200		0.00
	1440						0.00	RECP - OFF 1518,1521	20/1	12	13	A	14	12	20/1	RECP - WATER FOUNT #4						1200		0.00
	1440						0.00	RECP - OFF 1522, 1523	20/1	12	15	B	16	12	20/1	RECP - WATER FOUNT #5						1200		0.00
	720						0.00	RECP - OFF 1525	20/1	12	17	C	18	12	20/1	RECP - WATER FOUNT #6						1200		0.00
	720						0.00	RECP - BATH, LAUND	20/1	12	19	A	20	12	20/1	RECP - STOR, ELEC		720						0.00
	1080						0.00	RECP - WEIGHT #1	20/1	12	21	B	22	12	20/1	RECP - ELEV CONV		180						0.00
	1080						0.00	RECP - WEIGHT #2	20/1	12	23	C	24	12	20/1	RECP - SUMP PUMP						720		0.00
	720						0.00	RECP - HALL	20/1	12	25	A	26	12	20/1	RECP - BATHS, JAN 2ND		540						0.00
	540						0.00	RECP - VISTORS FLEX #1	20/1	12	27	B	28	12	20/1	RECP - WATER FOUNT 2ND						1200		0.00
	540						0.00	RECP - VISTORS FLEX #2	20/1	12	29	C	30	12	20/1	RECP - HALL 2ND FLR		540						0.00
	720						0.00	RECP - OFF FLEX	20/1	12	31	A	32	12	20/1	RECP - TEAM LOUNG 2ND #1		720						0.00
	1200						0.00	RECP - SOUND RACK	20/1	12	33	B	34	12	20/1	RECP - TEAM LOUNG 2ND #2		900						0.00
	1200						0.00	RECP - SOUND RACK	20/1	12	35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	17280	0	0	0	0	0	0.00	TOTALS								TOTALS	0	3600	0	0	0	12720	0	0.00

PANEL: L1H 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	1200						0.00	RECP - OH PROJECT #1	20/1	12	43	A	44	10	20/1	RECP - MECH LVL 3		900						0.00
	1200						0.00	RECP - OH PROJECT #2	20/1	12	45	B	46	12	20/1	CONTACTOR C6						100		0.00
		360					0.00	MOTOR SCREEN #1	20/1	12	47	C	48											0.00
		360					0.00	MOTOR SCREEN #2	20/1	12	49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62	12	20/1	UV OAHU-B1-01						1200		0.00
							0.00				63	B	64	12	20/1	UV OAHU-B3-01						1200		0.00
							0.00				65	C	66	12	20/1	UV AHU-B1-01						1200		0.00
							0.00				67	A	68	12	20/1	UV AHU-B1-02						1200		0.00
							0.00				69	B	70	12	20/1	UV AHU-B2-01						1200		0.00
							0.00				71	C	72	12	20/1	UV AHU-B3-01						1200		0.00
	100						0.00	CP-3B	15/1	12	73	A	74	12	20/1	UV AHU-B3-02						1200		0.00
					180		0.00	BAS PANEL LVL 3	20/1	12	75	B	76	12	20/1	TRAP PRIMER LVL 3						180		0.00
	120						0.00	VAV-B1-02-01	20/1	12	77	C	78	12	20/1	EF-B1-01				696				0.00
0	0	0	0	0	6656	0	0.00	PANEL L1J	100/3	SEE	79	A	80	SEE	125/3	PANEL L1K	0	4220	33	0	0	8096	0	0.00
0	0	0	0	0	6656	0	0.00	--	--	RISER	81	B	82	RISER	--	--	0	4220	33	0	0	8096	0	0.00
0	0	0	0	0	6656	0	0.00	--	--		83	C	84		--	--	0	4220	33	0	0	8096	0	0.00
0	2400	940	0	0	20148	0	0.00	TOTALS								TOTALS	0	13560	796	0	0	32968	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	36.8	1.7	0.0	0.0	65.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	23.4	1.7	0.0	0.0	65.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	35.6
B	34.8
C	34.0

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	104.4	289.8		91.0	252.6

PANEL: L1H

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting: SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground: Equipment Ground — Lugs: FEED THRU

PANEL: L1I — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1000					0.00	BACKBOARD MOTOR #1	20/1	12	1	A	2	12	20/1	RECP - LOB, BATH, STO		900						0.00
		1000					0.00	BACKBOARD MOTOR #2	20/1	12	3	B	4	12	20/1	RECP - TICKET BOOTH		720						0.00
		1000					0.00	BACKBOARD MOTOR #3	20/1	12	5	C	6	12	20/1	RECP - CONCESSION		720						0.00
		1000					0.00	BACKBOARD MOTOR #4	20/1	12	7	A	8	12	20/1	RECP - FRIDGE(1)		720						0.00
		1000					0.00	BACKBOARD MOTOR #5	20/1	12	9	B	10	12	20/1	RECP - MICROWAVE		1200						0.00
		1000					0.00	BACKBOARD MOTOR #6	20/1	12	11	C	12	12	20/1	RECP - CONC COUNT		180						0.00
		1000					0.00	MOTOR BLEACHER #1	20/1	12	13	A	14	12	20/1	RECP - MECH CONV		720						0.00
		1000					0.00	MOTOR BLEACHER #2	20/1	12	15	B	16	12	20/1	RECP - WATER FOUNT		700						0.00
					1000		0.00	GAME CAMERA #1	20/1	12	17	C	18	12	20/1	RECP - ROOF		180						0.00
					1000		0.00	GAME CAMERA #2	20/1	12	19	A	20		20/1	SPARE								1.00
					1000		0.00	SCOREBOARD #1	20/1	12	21	B	22	12	20/1	RECP - CONV LOB, BATH		720						0.00
					1000		0.00	SCOREBOARD #2	20/1	12	23	C	24	12	20/1	LASER PROJECTOR #1		1200						0.00
	180						0.00	RECP - BLEACHER #1	20/1	12	25	A	26	12	20/1	LASER PROJECTOR #2		1200						0.00
	180						0.00	RECP - BLEACHER #2	20/1	12	27	B	28	12	20/1	LASER PROJECTOR #3		1200						0.00
	540						0.00	RECP - CONV NORTH	20/1	12	29	C	30	12	20/1	LASER PROJECTOR #4		1200						0.00
	540						0.00	RECP - CONV EAST	20/1	12	31	A	32	12	20/1	SCROLLING DISPLAY #1		1500						0.00
	540						0.00	RECP - CONV SOUTH	20/1	12	33	B	34	12	20/1	SCROLLING DISPLAY #2		1500						0.00
	540						0.00	RECP - CONV WEST	20/1	12	35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	2520	8000	0	0	4000	0	0.00	TOTALS								TOTALS	0	14560	0	0	0	0	0	1.00

PANEL: L1I 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	180						0.00	RECP - LCD TV #1	20/1	12	43	A	44	12	20/1	CONTACTOR C3						100		0.00
	180						0.00	RECP - LCD TV #2	20/1	12	45	B	46											0.00
	180						0.00	RECP - LCD TV #3	20/1	12	47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72	12	20/1	UV OAHU-A2-01						1200		0.00
	100						0.00	CP-2A	15/1	12	73	A	74	12	20/1	UV AHU-A2-01						1200		0.00
							0.00				75	B	76	12	20/1	UV AHU-A2-02						1200		0.00
							0.00				77	C	78	12	20/1	UV AHU-A2-03						1200		0.00
							0.00	TRAP PRIMERS	20/1	12	79	A	80	12	20/1	BAS PANEL						180		0.00
							0.00	ACCU-ELECT/IDF-1503	50/3	6	81	B	82	12	20/1	EF-A1-01			667					0.00
							0.00	--	--	--	83	C	84	12	20/1	EF-A1-02			667					0.00
0	540	100	0	0	4715	540	0.00	TOTALS								TOTALS	0	0	1334	0	0	5080	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	17.6	9.4	0.0	4.7	9.6	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	13.8	9.4	0.0	4.7	9.6	0.0	0.5	Design KVA

Phase Load

Ph.	KVA
A	12.0
B	15.2
C	14.3

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	42.4	117.7		38.1	105.7

PANEL: L1I

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting: SURFACE — Main... MLO — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground: Equipment Ground — Lugs: SINGLE

PANEL: L1J — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1664		0.00	WASHER #1	20/2	12	1	A	2	12	20/2	DRYER #1								0.00
					1664		--	--	--		3	B	4		--	--								0.00
					1664		0.00	WASHER #2	20/2	12	5	C	6	12	20/2	DRYER #2								0.00
					1664		--	--	--		7	A	8		--	--								0.00
					1664		0.00	WASHER #3	20/2	12	9	B	10	12	20/2	DRYER #3								0.00
					1664		--	--	--		11	C	12		--	--								0.00
											13	A	14											0.00
											15	B	16											0.00
											17	C	18											0.00
											19	A	20											0.00
											21	B	22											0.00
											23	C	24											0.00
											25	A	26											0.00
											27	B	28											0.00
											29	C	30											0.00
0	0	0	0	0	9984	0	0.00	TOTALS								TOTALS	0	0	0	0	0	9984	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	6.7
B	6.7
C	6.7

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.0	55.4		20.0	55.4

PANEL: L1J

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting: SURFACE — Main... MLO — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground: Equipment Ground — Lugs: SINGLE

PANEL: L1K — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	1080						0.00	RECP - BOYS, PUMP	20/1	12	1	A	2	12	20/1	RECP - BOYS HALL		720						0.00
	1260						0.00	RECP - BOYS, STO, MECH	20/1	12	3	B	4	12	20/1	RECP - BOYS COACH		1080						0.00
	900						0.00	RECP - BOY COACH, RR	20/1	12	5	C	6	12	20/1	RECP - BOYS PRINTER		1200						0.00
	1080						0.00	RECP - GIRLS COACH	20/1	12	7	A	8	12	20/1	RECP - GIRL COACH, RR		900						0.00
	1200						0.00	RECP - GIRLS PRINTER	20/1	12	9	B	10	12	20/1	RECP - GIRL, STOR		1080						0.00
	720						0.00	RECP - GIRLS HALL	20/1	12	11	C	12	12	20/1	RECP - GIRL, STOR, RR		1440						0.00
											13	A	14											0.00
											15	B	16											0.00
											17	C	18											0.00
											19	A	20											0.00
											21	B	22											0.00
					1200		0.00	UV OA-B1-02	20/1	12	23	C	24											0.00
					1200		0.00	UV AHU-B1-03	20/1	12	25	A	26	12	15/1	CP-1B			100					0.00
					1200		0.00	UV AHU-B1-04	20/1	12	27	B	28	12	20/1	TRAP PRIMER								0.00
					360		0.00	BAS PANEL	20/1	12	29	C	30	12	20/1	GWH-1,2						360		0.00
					1664		0.00	WASHER #1	20/2	12	31	A	32	12	20/2	DRYER #1						1664		0.00
					1664		--	--	--		33	B	34		--	--						1664		0.00
					1664		0.00	WASHER #2	20/2	12	35	C	36	12	20/2	DRYER #2						1664		0.00
					1664		--	--	--		37	A	38		--	--						1664		0.00
					1664		0.00	WASHER #3	20/2	12	39	B	40	12	20/2	DRYER #3						1664		0.00
					1664		--	--	--		41	C	42		--	--						1664		0.00
0	6240	0	0	0	13944	0	0.00	TOTALS								TOTALS	0	6420	100	0	0	10344	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	12.7	0.1	0.0	0.0	24.3	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	11.3	0.1	0.0	0.0	24.3	0.0	0.0	Design KVA

Phase Load

Ph.	KVA
A	11.7
B	12.5
C	12.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	37.0	102.8		35.7	99.1

PANEL: L1K

Date: 12/3/2025 — By: Designer

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

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LEAF ENGINEERS

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-705

Plot Stamp:
12/3/2025 7:00:18 PM

ELECTRICAL PANEL SCHEDULES
EP-706

FOR BLUEBEAM LABELING/OCR:

0"

1"

Job: GPISD Phase 3b — Job No. 240539 — A/C.: 10000

Mounting: **SURFACE** — Main.: **MCB (225A)** — Neutral: **200%**

Voltage: **208Y/120V-3PH 4W** — Main.: **225 AMPS**

Ground: **Equipment Ground** — Lugs: **FEED THRU**

PANEL: **L1L** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph.	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		2880					0.00	B-01	30/3	10	1	A	2	12	15/3	PHWP-01			408					0.00
		2880					0.00	--	--		3	B	4		--	--			408					0.00
		2880					0.00	--	--		5	C	6		--	--			408					0.00
		2880					0.00	B-02	30/3	10	7	A	8	12	15/3	PHWP-02			408					0.00
		2880					0.00	--	--		9	B	10		--	--			408					0.00
		2880					0.00	--	--		11	C	12		--	--			408					0.00
		2880					0.00	B-03	30/3	10	13	A	14	12	15/3	PHWP-03			408					0.00
		2880					0.00	--	--		15	B	16		--	--			408					0.00
		2880					0.00	--	--		17	C	18		--	--			408					0.00
		2880					0.00	B-03	30/3	10	19	A	20	12	15/3	PHWP-04			408					0.00
		2880					0.00	--	--		21	B	22		--	--			408					0.00
		2880					0.00	--	--		23	C	24		--	--			408					0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	0	34560	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	4896	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph.	KVA
A	13.2
B	13.2
C	13.2

Panel Remarks:

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	39.5	109.5		39.5	109.5

PANEL: **L1L**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C.: 10000

Mounting: **SURFACE** — Main.: **MCB (225A)** — Neutral: **200%**

Voltage: **208Y/120V-3PH 4W** — Main.: **225 AMPS**

Ground: **Equipment Ground** — Lugs: **FEED THRU**

PANEL: **L2D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph.	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - MATH #1 A	20/1	12	1	A	2	12	20/1	RECP - MATH #2 A		540						0.00
	720						0.00	RECP - MATH #1 B	20/1	12	3	B	4	12	20/1	RECP - MATH #2 B		720						0.00
	540						0.00	RECP - MATH #1 C	20/1	12	5	C	6	12	20/1	RECP - MATH #2 C		540						0.00
	540						0.00	RECP - MATH #3 A	20/1	12	7	A	8	12	20/1	RECP - MATH #4 A		540						0.00
	720						0.00	RECP - MATH #3 B	20/1	12	9	B	10	12	20/1	RECP - MATH #4 B		720						0.00
	540						0.00	RECP - MATH #3 C	20/1	12	11	C	12	12	20/1	RECP - MATH #4 C		540						0.00
	540						0.00	RECP - MATH #5 A	20/1	12	13	A	14		20/1	RECP - COLLAB A		360						0.00
	720						0.00	RECP - MATH #5 B	20/1	12	15	B	16		20/1	RECP - COLLAB B		360						0.00
	540						0.00	RECP - MATH #5 C	20/1	12	17	C	18		20/1	RECP - BALCONY		360						0.00
	540						0.00	RECP - MATH #6 A	20/1	12	19	A	20		20/1	RECP - SPEC. STOR								0.00
	720						0.00	RECP - MATH #6 B	20/1	12	21	B	22		20/1	SPARE								1.00
	540						0.00	RECP - MATH #6 C	20/1	12	23	C	24		20/1	SPARE								1.00
							0.00				25	A	26		20/1	SPARE								1.00
							0.00				27	B	28		20/1	SPARE								1.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
	540						0.00	RECP - ELEC. BRIDGE	20/1	12	35	C	36											0.00
	540						0.00	RECP - HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
	540						0.00	RECP - RESTROOMS	20/1	12	39	B	40	-	-	-								0.00
					1200		0.00	RECP - WATER FOUNT	20/1	12	41	C	42	-	-	-								0.00
0	8820	0	0	0	1200	0	0.00	**TOTALS**								**TOTALS**	0	4680	0	0	0	0	0	4.00

PANEL: **L2D** 2 (Sectio...) — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph.	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1920		0.00	MULTI DISPLAY A	20/1	12	43	A	44											0.00
					1920		0.00	MULTI DISPLAY B	20/1	12	45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
							0.00				81	B	82											0.00
					180		0.00	VAV-E2-01-01	15/1	12	83	C	84											0.00
0	0	0	0	0	4020	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	13.5	0.0	0.0	0.0	5.2	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	11.8	0.0	0.0	0.0	5.2	0.0	2.0	Design KVA

Phase Load

Ph.	KVA
A	6.1
B	7.1
C	5.5

Panel Remarks:

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	22.7	63.1		19.0	52.7

PANEL: **L2D**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C.: 10000

Mounting: **SURFACE** — Main.: **MCB (225A)** — Neutral: **200%**

Voltage: **208Y/120V-3PH 4W** — Main.: **225 AMPS**

Ground: **Equipment Ground** — Lugs: **FEED THRU**

PANEL: **L2E** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph.	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - MATH #6 A	20/1	12	1	A	2	20/1	12	RECP - MATH #8 A		540						0.00
	720						0.00	RECP - MATH #6 B	20/1	12	3	B	4	20/1	12	RECP - MATH #8 B		720						0.00
	540						0.00	RECP - MATH #6 C	20/1	12	5	C	6	20/1	12	RECP - MATH #8 C		540						0.00
	720						0.00	RECP - MATH #3 B	20/1	12	9	B	10	20/1	12	RECP - MATH #10 B		720						0.00
	540						0.00	RECP - MATH #3 C	20/1	12	11	C	12	20/1	12	RECP - MATH #10 C		540						0.00
	720						0.00	RECP - COMP LAB A	20/1	12	13	A	14	20/1	12	RECP - MATH #11 A		540						0.00
	720						0.00	RECP - COMP LAB B	20/1	12	15	B	16	20/1	12	RECP - MATH #11 B		720						0.00
	720						0.00	RECP - COMP LAB C	20/1	12	17	C	18	20/1	12	RECP - MATH #11 C		540						0.00
	720						0.00	RECP - COMP LAB D	20/1	12	19	A	20	20/1	12	RECP - MATH #12 A		540						0.00
	720						0.00	RECP - COMP LAB E	20/1	12	21	B	22	20/1	12	RECP - MATH #12 B		720						0.00
	720						0.00	RECP - COMP LAB F	20/1	12	23	C	24	20/1	12	RECP - MATH #12 C		540						0.00
	720						0.00	RECP - COMP LAB G	20/1	12	25	A	26	20/1		SPARE								1.00
	720						0.00	RECP - COMP LAB H	20/1	12	27	B	28	20/1		SPARE								1.00
	360						0.00	RECP - COMP LAB I	20/1	12	29	C	30	20/1		SPARE								1.00
							0.00				31	A	32	20/1		SPARE								1.00
							0.00				33	B	34	20/1		SPARE								1.00
							0.00				35	C	36	20/1		SPARE								1.00
							0.00	RECP - MECH. HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
	1260						0.00	RECP - HALL, BATHS	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	RECP - MECH, BALC	20/1	12	41	C	42	-	-	-								0.00
0	11700	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	7200	0	0	0	0	0	6.00

PANEL: **L2E** 2 (Sectio...) — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph.	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	180						0.00	RECP - WORKPLC A	20/1	12	43	A	44	20/1	12	MULTI DISPLAY A						1920		0.00
	180						0.00	RECP - WORKPLC B	20/1	12	45	B	46	20/1	12	MULTI DISPLAY B						1920		0.00
	1200						0.00	RECP - WORKPLC C	20/1	12	47	C	48	20/1	12	MULTI DISPLAY C						1920		0.00
	180						0.00	RECP - WORKPLC D	20/1	12	49	A	50											0.00
	180						0.00	RECP - WORKPLC E	20/1	12	51	B	52											0.00
	180						0.00	RECP - WORKPLC F	20/1	12	53	C	54											0.00
	720						0.00	RECP - WORKPLC G	20/1	12	55	A	56											0.00
					720		0.00	RECP - FRIDGE(1)	20/1	12	57	B	58											0.00
					1200		0.00	RECP - COPIER	20/1	12	59	C	60											0.00
					1200		0.00	RECP - COPIER(1)	20/2	12	61	A	62											0.00
					1200		0.00	--	--		63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72	12	20/1	UV AHU-E2-01						1200		0.00
							0.00				73	A	74	12	20/1	UV AHU-F2-01						1200		0.00
							0.00				75	B	76	12	20/1	UV OAHU-E2-01						1200		0.00
							0.00				77	C	78	12	20/1	UV AHU-F2-02						1200		0.00
	100						0.00	CP-2F	15/1	12	79	A	80	12	20/1	UV AHU-F2-03						1200		0.00
					180		0.00	BAS PANEL	20/1	12	81	B	82	12	20/1	UV OAHU-F2-01						1200		0.00
	180						0.00	VAV-F2-01-01	15/1	12	83	C	84	12	20/1	TRAP PRIMERS						360		0.00
0	2820	280	0	0	4500	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	13320	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	21.7	0.3	0.0	0.0	17.8	0.0	6.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.9	0.3	0.0	0.0	17.8	0.0	3.0	Design KVA

Phase Load

Ph.	KVA
A	12.1
B	14.5
C	13.2

Panel Remarks:

(1)GFI GROUND FAULT PROTECTION

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	45.8	127.2		37.0	102.6

PANEL: **L2E**

Date: 12/3/2025 — By: Designer

Plot Stamp:
12/3/2025 7:00:19 PM

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0808

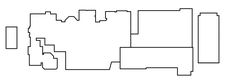
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-706

ELECTRICAL PANEL SCHEDULES
EP-707
FOR BLUEBEAM LABELING/OCR:

Job: GPISD Phase 3b | Job No. 240539 | A/C... 10000

Mounting SURFACE | Main... MCB (225A) | Neutral 200% | Voltage: 208Y/120V-3PH 4W | Main... 225 AMPS | Ground Equipment Ground | Lugs FEED THRU

PANEL: L2F — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - SOC STUD #3 A	20/1	12	1	A	2	20/1	12	RECP - SOC STUD #3 A		540						0.00
	720						0.00	RECP - SOC STUD #3 B	20/1	12	3	B	4	20/1	12	RECP - SOC STUD #3 B		720						0.00
	540						0.00	RECP - SOC STUD #3 C	20/1	12	5	C	6	20/1	12	RECP - SOC STUD #3 C		540						0.00
	540						0.00	RECP - SOC STUD #2 A	20/1	12	7	A	8	20/1	12	RECP - SOC STUD #2 A		540						0.00
	720						0.00	RECP - SOC STUD #2 B	20/1	12	9	B	10	20/1	12	RECP - SOC STUD #2 B		720						0.00
	540						0.00	RECP - SOC STUD #2 C	20/1	12	11	C	12	20/1	12	RECP - SOC STUD #2 C		540						0.00
	540						0.00	RECP - SOC STUD #1 A	20/1	12	13	A	14	20/1	12	RECP - SOC STUD #1 A		540						0.00
	720						0.00	RECP - SOC STUD #1 B	20/1	12	15	B	16	20/1	12	RECP - SOC STUD #1 B		720						0.00
	540						0.00	RECP - SOC STUD #1 C	20/1	12	17	C	18	20/1	12	RECP - SOC STUD #1 C		540						0.00
	540						0.00	RECP - SOC STUD #11 A	20/1	12	19	A	20	20/1	12	RECP - SOC STUD #9 A		540						0.00
	720						0.00	RECP - SOC STUD #11 B	20/1	12	21	B	22	20/1	12	RECP - SOC STUD #9 B		720						0.00
	540						0.00	RECP - SOC STUD #11 C	20/1	12	23	C	24	20/1	12	RECP - SOC STUD #9 C		540						0.00
	720						0.00	RECP - MECH, ELEC	20/1	12	25	A	26	20/1		SPARE								1.00
	1080						0.00	RECP - HALL	20/1	12	27	B	28	20/1		SPARE								1.00
	1440						0.00	RECP - AP OFF, SRO	20/1	12	29	C	30	20/1		SPARE								1.00
							0.00	RECP - AP SUITE A			31	A	32	20/1		SPARE								1.00
							0.00	RECP - AP SUITE B			33	B	34	20/1		SPARE								1.00
							0.00				35	C	36	20/1		SPARE								1.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	10440	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	7200	0	0	0	0	0	6.00

PANEL: L2F 2 (Sectio...

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1920		0.00	MULTI DISPLAY A	20/1	12	43	A	44											0.00
					1920		0.00	MULTI DISPLAY B	20/1	12	45	B	46											0.00
					1920		0.00	MULTI DISPLAY C	20/1	12	47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78	12	20/1	UV OAHU-C3-01						1200		0.00
							0.00				79	A	80	12	20/1	UV AHU-C3-01						1200		0.00
							0.00				81	B	82	12	20/1	UV AHU-D3-01						1200		0.00
		180					0.00	VAV-D3-01-01	20/1	12	83	C	84	20/1	12	TRAP PRIMER						180		0.00
0	0	180	0	0	5940	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	3780	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	17.6	0.2	0.0	0.0	9.7	0.0	6.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	13.8	0.2	0.0	0.0	9.7	0.0	3.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	8.2
B	10.1
C	9.2

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	33.5	93.1		26.7	74.2

PANEL: L2F

Date: 12/3/2025 | By: Designer

Job: GPISD Phase 3b | Job No. 240539 | A/C... 10000

Mounting SURFACE | Main... MCB (225A) | Neutral 200% | Voltage: 208Y/120V-3PH 4W | Main... 225 AMPS | Ground Equipment Ground | Lugs FEED THRU

PANEL: L2G — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - SOC STUD #7 A	20/1	12	1	A	2	12	20/1	RECP - SOC STUD #8 A		540						0.00
	900						0.00	RECP - SOC STUD #7 B	20/1	12	3	B	4	12	20/1	RECP - SOC STUD #8 B		900						0.00
	540						0.00	RECP - SOC STUD #7 C	20/1	12	5	C	6	12	20/1	RECP - SOC STUD #8 C		540						0.00
	540						0.00	RECP - SOC STUD #6 A	20/1	12	7	A	8	12	20/1	RECP - SOC STUD #9 A		540						0.00
	900						0.00	RECP - SOC STUD #6 B	20/1	12	9	B	10	12	20/1	RECP - SOC STUD #9 B		900						0.00
	540						0.00	RECP - SOC STUD #6 C	20/1	12	11	C	12	12	20/1	RECP - SOC STUD #9 C		540						0.00
	540						0.00	RECP - SOC STUD #5 A	20/1	12	13	A	14	12	20/1	RECP - RESTROOMS		540						0.00
	900						0.00	RECP - SOC STUD #5 B	20/1	12	15	B	16	12	20/1	RECP - WATER FOUNT		720						0.00
	540						0.00	RECP - SOC STUD #5 C	20/1	12	17	C	18	12	20/1	RECP - HALL, STOR		720						0.00
	540						0.00	RECP - SOC STUD #4 A	20/1	12	19	A	20	12	20/1	RECP - BRIDGE, ELEC		540						0.00
	900						0.00	RECP - SOC STUD #4 B	20/1	12	21	B	22	12	20/1	RECP - COLLAB A		360						0.00
	540						0.00	RECP - SOC STUD #4 C	20/1	12	23	C	24	12	20/1	RECP - COLLAB B		360						0.00
							0.00	RECP - SPECIALIST	20/1	12	25	A	26	12	20/1	RECP - BALCONY		360						0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	7920	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	7560	0	0	0	0	0	0.00

PANEL: L2G 2 (Sectio...

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1920		0.00	MULTI DISPLAY A	20/1	12	43	A	44											0.00
					1920		0.00	MULTI DISPLAY B	20/1	12	45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
							0.00				81	B	82	12	15/2	FCU-STAIRS-C2						260		0.00
		180					0.00	VAV-C2-01-01	15/1	12	83	C	84	--	--							260		0.00
0	0	180	0	0	3840	0	0.00	**TOTALS**								**TOTALS**	0	0	520	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	15.5	0.7	0.0	0.0	3.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	12.7	0.7	0.0	0.0	3.8	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	6.6
B	8.7
C	4.8

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.0	55.6		17.3	48.0

PANEL: L2G

Date: 12/3/2025 | By: Designer

Job: GPISD Phase 3b | Job No. 240539 | A/C... 10000

Mounting SURFACE | Main... MCB (100A) | Neutral 200% | Voltage: 208Y/120V-3PH 4W | Main... 100 AMPS | Ground Equipment Ground | Lugs FEED THRU

PANEL: L2H — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1000					0.00	BACKBOARD MOTOR #1A	20/1	12	1	A	2	12	20/1	BACKBOARD MOTOR #1B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #2A	20/1	12	3	B	4	12	20/1	BACKBOARD MOTOR #2B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #3A	20/1	12	5	C	6	12	20/1	BACKBOARD MOTOR #3B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #4A	20/1	12	7	A	8	12	20/1	BACKBOARD MOTOR #4B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #5A	20/1	12	9	B	10	12	20/1	BACKBOARD MOTOR #5B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #6A	20/1	12	11	C	12	12	20/1	BACKBOARD MOTOR #6B			1000					0.00
		1000					0.00	MOTOR BLEACHER #1A	20/1	12	13	A	14	12	20/1	RECP - CONV NORTH B		540						0.00
					1000		0.00	SCOREBOARD #1A	20/1	12	15	B	16	12	20/1	RECP - CONV EAST B		540						0.00
					1000		0.00	SCOREBOARD #2A	20/1	12	17	C	18	12	20/1	RECP - CONV SOUTH B		540						0.00
	180						0.00	RECP - BLEACHER #1A	20/1	12	19	A	20	12	20/1	RECP - CONV WEST B		540						0.00
	540						0.00	RECP - CONV NORTH A	20/1	12	21	B	22	12	20/1	RECP - MECH		540						0.00
	540						0.00	RECP - CONV EAST A	20/1	12	23	C	24	12	20/1	RECP - MECH, STOR		1080						0.00
	540						0.00	RECP - CONV SOUTH A	20/1	12	25	A	26	12	20/1	RECP - CORRIDOR		540						0.00
	540						0.00	RECP - CONV WEST A	20/1	12	27	B	28	10	20/1	RECP - ROOF		540						0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	2340	7000	0	0	2000	0	0.00	**TOTALS**								**TOTALS**	0	4860	6000	0	0	0	0	0.00

PANEL: L2H 2 (Sectio...

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				43	A	44											0.00
							0.00				45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62	12	20/1	UV OAHU-B1-03						1200		0.00
				360			0.00	TRAP PRIMERS	20/1	12	63	B	64	12	20/1	UV AHU-B3-03						1200		0.00
				300			0.00	BAS	20/1	12	65	C	66	12	20/1	UV AHU-B3-04						1200		0.00
				667			0.00	EF-B2-01	20/1	12	67	A	68	12	20/1	UV OAHU-B3-02						1200		0.00
				1144			0.00	ACCU-IDF-1545	25/2	10	69	B	70	10	25/2	ACCU-PUMP ROOM					1664			0.00
				1144			0.00	--	--	--	71	C	72	--	--	--					1664			0.00
				1144			0.00	ACCU-IDF-2510.2	25/2	10	73	A	74	10	25/2	ACCU-ELECT-2512.1					1144			0.00
				1144			0.00	--	--	--	75	B	76	--	--	--					1144			0.00
				1144			0.00	ACCU IDF-15421.1	25/2	10	77	C	78	6	40/2	ACCU-STAIRS-B1					2600			0.00
				1144			0.00	--	--	--	79	A	80	--	--	--					2600			0.00
											81	B	82											0.00
											83	C	84											0.00
0	0	0	0	8191	0	0	0.00	BAS								**TOTALS**	0	0	0	0	10816	4800	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	7.2	13.0	0.0	19.0	6.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	7.2	13.0	0.0	19.0	6.8	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	16.4
B	14.4
C	15.2

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	46.0	127.7		46.0	127.7

PANEL: L2H

Date: 12/3/2025 | By: Designer

Job: GPISD Phase 3b | Job No. 240539 | A/C... 10000

Mounting SURFACE | Main... MCB (225A) | Neutral 200% | Voltage: 208Y/120V-3PH 4W | Main... 225 AMPS | Ground Equipment Ground | Lugs FEED THRU

PANEL: L3A — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - BIO 3102 A	20/1	12	1	A	2	12	20/1	RECP - FORE 3102 A		360						0.00
	720						0.00	RECP - BIO 3104 B	20/1	12	3	B	4	12	20/1	RECP - FORE 3102 B		720						0.00
	540						0.00	RECP - BIO 3104 C	20/1	12	5	C	6	12	20/1	RECP - FORE 3102 C		540						0.00
	540						0.00	RECP - BIO 3104 D	20/1	12	7	A	8	12	20/1	RECP - FORE 3102 D		540						0.00
	540						0.00	RECP - BIO 3104 E	20/1	12	9	B	10	12	20/1	RECP - FORE 3102 E		540						0.00
	540						0.00	RECP - BIO 3104 F	20/1	12	11	C	12	12	20/1	RECP - FORE 3102 F		540						0.00
	540						0.00	RECP - BIO 3104 G	20/1	12	13	A	14	12	20/1	RECP - FORE 3102 G		540						0.00
	540						0.00	RECP - BIO 3104 H	20/1	12	15	B	16	12	20/1	RECP - FORE 3102 H		540						0.00
	360						0.00	RECP - PREP 3104.1 A	20/1	12	17	C	18	12	20/1	RECP - PREP 3102.1 A		360						0.00
	180						0.00	RECP - PREP 3104.1 B	20/1	12	19	A	20	12	20/1	RECP - PREP 3102.1 B		180						0.00
	180						0.00	RECP - PREP 3104.1 C	20/1	12	21	B	22	12	20/1	RECP - PREP 3102.1 C		180						0.00
	180						0.00	RECP - PREP 3104.1 D	20/1	12	23	C	24	12	20/1	RECP - PREP 3102.1 D		180						0.00
	180						0.00	RECP - PREP 3104.1 E	20/1	12	25	A	26	12	20/1	RECP - PREP 3102.1 E		180						0.00
	180						0.00	RECP - PREP 3104.1 F	20/1	12	27	B	28	12	20/1	RECP - PREP 3102.1 F		180						0.00
							0.00	RECP - FRIDGE A	20/1	12	29	C	30	12	20/1	RECP - FRIDGE B						720		0.00
							0.00	RECP - DISHWASHER A	20/1	12	31	A	32	12	20/1	RECP - DISHWASHER B						1200		0.00
							0.00				33	B	34											0.00
	360						0.00	RECP - CONV ROOF	20/1	12	35	C	36											0.00
							0.00	RECP - STOR, HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
							0.00	RECP - BATHS	20/1	12	39	B	40	-	-	-								0.00
							0.00	RECP - WATER FOUNT	20/1	12	41	C	42	-	-	-								0.00
0	5940	0	0	0	3120	0	0.00	**TOTALS**								**TOTALS**	0	5580	0	0	0	1920	0	0.00

PANEL: L3A 2 (Sectio...

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - BIO 3108 A	20/1	12	43	A	44	12	20/1	RECP - ASTRO 3107 A		360						0.00
	720						0.00	RECP - BIO 3108 B	20/1	12	45	B	46	12	20/1	RECP - ASTRO 3107 B		720						0.00
	540						0.00	RECP - BIO 3109 C	20/1	12	47	C	48	12	20/1	RECP - ASTRO 3107 C		540						0.00
	540						0.00	RECP - BIO 3110 D	20/1	12	49	A	50	12	20/1	RECP - ASTRO 3107 D		540						0.00
	540						0.00	RECP - BIO 3111 E	20/1	12	51	B	52	12	20/1	RECP - ASTRO 3107 E		540						0.00
	540						0.00	RECP - BIO 3112 F	20/1	12	53	C	54	12	20/1	RECP - ASTRO 3107 F		540						0.00
	540						0.00	RECP - BIO 3113 G	20/1	12	55	A	56	12	20/1	RECP - ASTRO 3107 G		540						0.00
	540						0.00	RECP - BIO 3114 H	20/1	12	57	B	58	12	20/1	RECP - ASTRO 3107 H		540						0.00
	540						0.00	RECP - BIO 3114 I	20/1	12	59	C	60	12	20/1	RECP - COLLAB A		360						0.00
							0.00				61	A	62	12	20/1	RECP - COLLAB B		360						0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
		180					0.00	VAV-E3-01-01	15/1	12	71	C	72											0.00
							0.00				73	A	74											0.00
		744					0.00	EF-E3-01.02	15/1	12	75	B	76	12	15/1	EF-E3-03,04			720					0.00
		1144					0.00	ACCU-IDF-2104	25/2	10	77	C	78	6	40/1	EF-E1-01			1800					0.00
		1144					0.00	--	--	--	79	A	80	12	15/1	EF-E3-03,04			744					0.00
											81	B	82	10	25/2	ACCU-IDF-1106			1144					0.00
											83	C	84						1144					0.00
0	4860	3212	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	5040	5552	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	21.4	8.8	0.0	0.0	5.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.7	8.8	0.0	0.0	5.0	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	10.9
B	10.9
C	13.4

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	35.2	97.8

ELECTRICAL PANEL SCHEDULES
EP-708
FOR BLUEBEAM LABELING/DOCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539

Mounting: **SURFACE** — Main.. **MCB (225A)** — Neutral **200%**

Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS**

A/C... **10000** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L3B** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - BIO 3112 A	20/1	12	1	A	2	12	20/1	RECP - BIO 3119 A		360						0.00
	720						0.00	RECP - BIO 3112 B	20/1	12	3	B	4	12	20/1	RECP - BIO 3119 B		720						0.00
	540						0.00	RECP - BIO 3112 C	20/1	12	5	C	6	12	20/1	RECP - BIO 3119 C		540						0.00
	540						0.00	RECP - BIO 3112 D	20/1	12	7	A	8	12	20/1	RECP - BIO 3119 D		540						0.00
	540						0.00	RECP - BIO 3112 E	20/1	12	9	B	10	12	20/1	RECP - BIO 3119 E		540						0.00
	540						0.00	RECP - BIO 3112 F	20/1	12	11	C	12	12	20/1	RECP - BIO 3119 F		540						0.00
	540						0.00	RECP - BIO 3112 G	20/1	12	13	A	14	12	20/1	RECP - BIO 3119 G		540						0.00
	540						0.00	RECP - BIO 3112 H	20/1	12	15	B	16	12	20/1	RECP - BIO 3119 H		540						0.00
	360						0.00	RECP - BIO 3112 I	20/1	12	17	C	18	12	20/1	RECP - BIO 3119 I		540						0.00
	180						0.00	RECP - BIO 3112 J	20/1	12	19	A	20	12	20/1	RECP - BIO 3119 J		540						0.00
	180						1.00	SPARE	20/1	12	21	B	22	12	20/1	RECP - SPANISH 1 A		540						0.00
	180						0.00	RECP - PREP 3104.1 A	20/1	12	23	C	24	12	20/1	RECP - SPANISH 1 B		540						0.00
	180						0.00	RECP - PREP 3104.1 B	20/1	12	25	A	26	12	20/1	RECP - SPANISH 1 C		720						0.00
	180						0.00	RECP - PREP 3104.1 C	20/1	12	27	B	28		20/1	SPARE								1.00
	180						0.00	RECP - PREP 3104.1 D	20/1	12	29	C	30		20/1	SPARE								1.00
	180						0.00	RECP - PREP 3104.1 E	20/1	12	31	A	32		20/1	SPARE								1.00
	180						0.00	RECP - PREP 3104.1 F	20/1	12	33	B	34	12	20/1	RECP - FRIDGE(1)								0.00
	180						0.00	RECP - PREP 3104.1 G	20/1	12	35	C	36	12	20/1	RECP - DISHWASHER(1)								0.00
					720		0.00	RECP - PREP 3104.1 D	20/1	12	37	A	38	10	30/3	SPD								0.00
					1200		0.00	RECP - PREP 3104.1 E	20/1	12	39	B	40	-	-	-								0.00
							0.00	RECP - PREP 3104.1 F	20/1	12	41	C	42	-	-	-								0.00
0	6300	0	0	0	1920	0	1.00	**TOTALS**								**TOTALS**	0	7200	0	0	0	0	0	3.00

PANEL: **L3B** **2** **(Sectio...** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - SPANISH 2 A	20/1	12	43	A	44	12	20/1	RECP - SPANISH 4 A		540						0.00
	540						0.00	RECP - SPANISH 2 B	20/1	12	45	B	46	12	20/1	RECP - SPANISH 4 B		540						0.00
	540						0.00	RECP - SPANISH 2 C	20/1	12	47	C	48	12	20/1	RECP - SPANISH 4 C		720						0.00
	540						0.00	RECP - SPANISH 3 A	20/1	12	49	A	50	12	20/1	RECP - SPANISH 5 A		540						0.00
	540						0.00	RECP - SPANISH 3 B	20/1	12	51	B	52	12	20/1	RECP - SPANISH 5 B		540						0.00
	720						0.00	RECP - SPANISH 3 C	20/1	12	53	C	54	12	20/1	RECP - SPANISH 5 C		720						0.00
	900						0.00	RECP - AP OFF, STO	20/1	12	55	A	56												0.00
	1260						0.00	RECP - HALL,STO,JAN	20/1	12	57	B	58												0.00
	540						0.00	RECP - MECH, ELEC	20/1	12	59	C	60												0.00
	540						0.00	RECP - ROOF CONV	20/1	12	61	A	62												0.00
	TX						0.00				63	B	64												0.00
							0.00				65	C	66												0.00
							0.00				67	A	68	12	20/1	UV OAHU-E3-01						1200		0.00
							0.00	EF-F1-01	25/1	10	69	B	70	12	20/1	UV AHU-E3-01						1200		0.00
					180		0.00	BAS PANEL	20/1	12	71	C	72	12	20/1	UV AHU-F3-01						1200		0.00
					180		0.00	VAV-F3-01-01	20/1	12	73	A	74	12	20/1	TRAP PRIMER								0.00
		1056					0.00	EF-F3-01.02	15/1	12	75	B	76	12	15/1	EF-E3-03			528					0.00
		1144					0.00	ACCU-IDF-1129	25/2	10	77	C	78						1144					0.00
		1144					0.00	--	--		79	A	80												0.00
		1144					0.00	ACCU-IDF-2125	25/2	10	81	B	82	10	25/2	ACCU-IDF-3123			1144					0.00
		1144					0.00	--	--		83	C	84		--	--			1144					0.00
0	6840	5632	0	0	360	0	0.00	**TOTALS**								**TOTALS**	0	3600	2816	0	0	3600	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	23.9	8.4	0.0	0.0	5.9	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	17.0	8.4	0.0	0.0	5.9	0.0	2.0	Design KVA

Phase Load

Ph	KVA
A	11.5
B	14.4
C	12.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	42.3	117.3		33.3	92.4

PANEL: **L3B**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539

Mounting: **SURFACE** — Main.. **MCB (225A)** — Neutral **200%**

Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS**

A/C... **10000** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L3D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - PHYSICS A	20/1	12	1	A	2	12	20/1	RECP - CHEM 3147 A		360						0.00
	720						0.00	RECP - PHYSICS B	20/1	12	3	B	4	12	20/1	RECP - CHEM 3147 B		720						0.00
	540						0.00	RECP - PHYSICS C	20/1	12	5	C	6	12	20/1	RECP - CHEM 3147 C		540						0.00
	540						0.00	RECP - PHYSICS D	20/1	12	7	A	8	12	20/1	RECP - CHEM 3147 D		540						0.00
	540						0.00	RECP - PHYSICS E	20/1	12	9	B	10	12	20/1	RECP - CHEM 3147 E		540						0.00
	540						0.00	RECP - PHYSICS F	20/1	12	11	C	12	12	20/1	RECP - CHEM 3147 F		540						0.00
	540						0.00	RECP - PHYSICS G	20/1	12	13	A	14	12	20/1	RECP - CHEM 3147 G		540						0.00
							1.00	SPARE	20/1	12	15	B	16	12	20/1	RECP - CHEM 3147 H		540						0.00
	360						0.00	RECP - PREP 3145.1 A	20/1	12	17	C	18	12	20/1	RECP - CHEM 3147 I		360						0.00
	180						0.00	RECP - PREP 3145.1 B	20/1	12	19	A	20	12	20/1	RECP - CHEM 3147 J		180						0.00
	180						0.00	RECP - PREP 3145.1 C	20/1	12	21	B	22	12	20/1	RECP - PREP 3141.1 A		360						0.00
	180						0.00	RECP - PREP 3145.1 D	20/1	12	23	C	24	12	20/1	RECP - PREP 3141.1 B		180						0.00
	180						0.00	RECP - PREP 3145.1 E	20/1	12	25	A	26	12	20/1	RECP - PREP 3141.1 C		180						0.00
	180						0.00	RECP - PREP 3145.1 F	20/1	12	27	B	28	12	20/1	RECP - PREP 3141.1 D		180						0.00
	720						0.00	RECP - FRIDGE A	20/1	12	29	C	30	12	20/1	RECP - PREP 3141.1 E		180						0.00
	1200						0.00	RECP - DISHWASHER A	20/1	12	31	A	32	12	20/1	RECP - PREP 3141.1 F		180						0.00
							1.00	SPARE	20/1		33	B	34	12	20/1	RECP - FRIDGE B(1)		720						0.00
							1.00	SPARE	20/1		35	C	36	12	20/1	RECP - DISHWASHER B		1200						0.00
							1.00	SPARE	20/1		37	A	38	10	30/3	SPD								0.00
					360		0.00	FUME HOOD A	20/1	12	39	B	40	-	-	-								0.00
					360		0.00	FUME HOOD B	20/1	12	41	C	42	-	-	-								0.00
0	6960	0	0	0	720	0	4.00	**TOTALS**								**TOTALS**	0	8040	0	0	0	0	0	0.00

PANEL: **L3D** **2** **(Sectio...** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - IPC 3145 A	20/1	12	43	A	44	12	20/1	RECP - CHEM 3141 A		360						0.00
	540						0.00	RECP - IPC 3145 B	20/1	12	45	B	46	12	20/1	RECP - CHEM 3141 B		360						0.00
	720						0.00	RECP - IPC 3145 C	20/1	12	47	C	48	12	20/1	RECP - CHEM 3141 C		360						0.00
	360						0.00	RECP - COLLAB A	20/1	12	49	A	50	12	20/1	RECP - CHEM 3141 D		360						0.00
	360						0.00	RECP - COLLAB B	20/1	12	51	B	52	12	20/1	RECP - CHEM 3141 E		360						0.00
	540						0.00	RECP - HALL	20/1	12	53	C	54	12	20/1	RECP - CHEM 3141 F		360						0.00
	540						0.00	RECP - ELEC. STOR	20/1	12	55	A	56	12	20/1	RECP - CHEM 3141 G		540						0.00
	540						0.00	RECP - BATHS	20/1	12	57	B	58	12	20/1	RECP - CHEM 3141 H		540						0.00
					1200		0.00	RECP - WATER FOUNT	20/1	12	59	C	60	12	20/1	RECP - CHEM 3140 A		360						0.00
							0.00				61	A	62	12	20/1	RECP - CHEM 3140 B		360						0.00
							0.00				63	B	64	12	20/1	RECP - CHEM 3140 C		360						0.00
							0.00				65	C	66	12	20/1	RECP - CHEM 3140 D		540						0.00
		1656					0.00	EF-1-01	30/1	12	67	A	68	12	20/1	RECP - CHEM 3140 E		540						0.00
		180					0.00	VAV-C3-01-01	15/1	12	69	B	70	12	20/1	RECP - CHEM 3140 F		360						0.00
		960					0.00	EF-03-01.02	15/1	12	71	C	72	12	20/1	RECP - CHEM 3140 G		540						0.00
		780					0.00	EF-C3-02.03	15/1	12	73	A	74	12	20/1	RECP - CHEM 3140 H		540						0.00
		739					0.00	EF-C3-01.03-04	15/1	12	75	B	76	12	20/1	RECP - CHEM 3140 I		360						0.00
		1144					0.00	ACCU-IDF-1132I	25/2	10	77	C	78												0.00
		1144					0.00	--	--		79	A	80												0.00
		1144					0.00	ACCU-IDF-2159	25/2	10	81	B	82	10	25/2	ACCU-IDF-1162			1144					0.00
		1144					0.00	--	--		83	C	84		--	--			1144					0.00
0	4140	8891	0	0	1200	0	0.00	**TOTALS**								**TOTALS**	0	7200	2288	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	26.3	11.2	0.0	0.0	1.9	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	18.2	11.2	0.0	0.0	1.9	0.0	2.0	Design KVA

Phase Load

Ph	KVA
A	12.7
B	12.0
C	14.7

Panel Remarks:
(1)GFI(GROUND FAULT INTERRUPTOR)

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	43.4	120.6		33.3	92.3

PANEL: **L3D**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539

Mounting: **SURFACE** — Main.. **MLO** — Neutral **200%**

Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS**

A/C... **10000** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **L3C SECT 3** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							1.00	SPARE	20/1		1	A	2											0.00
							1.00	SPARE	20/1		3	B	4											0.00
							1.00	SPARE	20/1		5	C	6											0.00
							1.00	SPARE	20/1		7	A	8											0.00
							1.00	SPARE	20/1		9	B	10											0.00
							1.00	SPARE	20/1		11	C	12											0.00
							1.00	SPARE	20/1		13	A	14											0.00
							1.00	SPARE	20/1		15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
0	0	0	0	0	0	0	8.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	Design KVA

Phase Load

Ph	KVA
A	0.0
B	0.0
C	0.0

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	8.0	22.2		4.0	11.1

PANEL: **L3C SECT 3**

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539

Mounting: **SURFACE** — Main.. **MLO** — Neutral **200%**

Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS**

A/C... **10000** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **L4A** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	RECP - CONV	20/1	12	1	A	2											0.00
							0.00	RECP - ROOF CONV	20/1	12	3	B	4											0.00
							0.00				5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
					1200		0.00	UV OAHU-MP-01	20/1	12	37	A	38	10	30/3	SPD								0.00
					1200		0.00	UV AHU-MP-01	20/1	12	39	B	40	-	-	-								0.00
					1200		0.00	UV AHU-MP-02	20/1	12	41	C	42	-	-	-								0.00
0	0	0	0	0	3600	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.2
B	1.2
C	1.2

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	3.6	10.0		3.6	10.0

PANEL: **L4A**

Date: 12/3/2025 — By: Designer

Plot Stamp:
12/3/2025 7:00:19 PM

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD — EXCELLENCE IN ALL FORMS OF LEARNING

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-10672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-708

ELECTRICAL PANEL SCHEDULES
EP-709
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: Job Name
Job No. Job Number
Mounting **SURFACE**
Main Type **MCB (100A)**
Neutral **100%**
Voltage: **480Y/277V-3PH 4W**
Main Size: **100 AMPS**
AIC... **42000**
Ground **Equipment Ground**
Lugs **SINGLE**
PANEL: **SH1D**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2											0.00
							0.00				3	B	4											0.00
							0.00				5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
0	4320	0	0	0	7680	0	0.00	XFMR S1TD(45 KVA)	SEE	75/3	37	A	38	10	30/3	SPD								0.00
0	4320	0	0	0	7680	0	0.00	-	RISER	-	39	B	40		--	--								0.00
0	4320	0	0	0	7680	0	0.00	-	-	-	41	C	42		--	--								0.00
0	12960	0	0	0	23040	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	13.0	0.0	0.0	0.0	23.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	11.5	0.0	0.0	0.0	23.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	12.0
B	12.0
C	12.0

Panel Remarks:

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	36.0	43.3		34.5	41.5

PANEL: **SH1D**

Date: 12/3/2025 | By: Designer | 1602849

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MCB (150A)**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main... **225 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**
PANEL: **S1LD**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2		50/3	SL1E	0	960	0	0	0	2800	0	0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4		--	--	0	960	0	0	0	2800	0	0.00
					1560		0.00	--	--		5	C	6		--	--	0	960	0	0	0	2800	0	0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8		50/3	SL1F	0	960	0	0	0	2800	0	0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10		--	--	0	960	0	0	0	2800	0	0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12		--	--	0	960	0	0	0	2800	0	0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14		50/3	SL2E	0	1200	0	0	0	1040	0	0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16		--	--	0	1200	0	0	0	1040	0	0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18		--	--	0	1200	0	0	0	1040	0	0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								0.00
							0.00				27	B	28	-	-	-								0.00
							0.00				29	C	30	-	-	-								0.00
0	3600	0	0	0	3120	0	0.00	**TOTALS**								**TOTALS**	0	9360	0	0	0	19920	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	13.0	0.0	0.0	0.0	23.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	11.5	0.0	0.0	0.0	23.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	11.2
B	12.4
C	12.4

Panel Remarks:

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	36.0	99.9		34.5	95.8

PANEL: **S1LD**

Date: 12/3/2025 | By: Designer | 1602849

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MLO**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main... **100 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**
PANEL: **S1LE**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1503	20/1	12	1	A	2											0.00
					1560		0.00	RECP - SPEC RACK 1503	30/2	10	3	B	4											0.00
					1560		0.00	--	--		5	C	6											0.00
	360						0.00	RECP - QUAD RACK 1503	20/1	12	7	A	8											0.00
					1560		0.00	RECP - SPEC RACK 1503	30/2	10	9	B	10											0.00
					1560		0.00	--	--		11	C	12											0.00
	720						0.00	RECP - QUAD WALL A 1503	20/1	12	13	A	14											0.00
	720						0.00	RECP - QUAD WALL B 1503	20/1	12	15	B	16											0.00
	720						0.00	RECP - QUAD WALL C 1503	20/1	12	17	C	18											0.00
						720	0.00	FACP PANEL 1503	20/1	12	19	A	20											0.00
						720	0.00	SEC BOOST PANEL 1503	20/1	12	21	B	22											0.00
						720	0.00	ACCESS CONT PANEL1503	20/1	12	23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								0.00
							0.00				27	B	28	-	-	-								0.00
							0.00				29	C	30	-	-	-								0.00
0	2880	0	0	0	8400	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	2.2
B	4.6
C	4.6

Panel Remarks:

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	11.3	31.3		11.3	31.3

PANEL: **S1LE**

Date: 12/3/2025 | By: Designer | 1602849

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MLO**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main... **100 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**
PANEL: **S1LF**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1545	20/1	12	1	A	2											0.00
					1560		0.00	RECP - SPEC RACK 1545	30/2	10	3	B	4											0.00
					1560		0.00	--	--		5	C	6											0.00
	360						0.00	RECP - QUAD RACK 1545	20/1	12	7	A	8											0.00
					1560		0.00	RECP - SPEC RACK 1545	30/2	10	9	B	10											0.00
					1560		0.00	--	--		11	C	12											0.00
	720						0.00	RECP - QUAD WALL A 1545	20/1	12	13	A	14											0.00
	720						0.00	RECP - QUAD WALL B 1545	20/1	12	15	B	16											0.00
	720						0.00	RECP - DUPL WALL C 1545	20/1	12	17	C	18											0.00
					720		0.00	FACP PANEL 1545	20/1	12	19	A	20											0.00
					720		0.00	SEC BOOST PANEL 1545	20/1	12	21	B	22											0.00
					720		0.00	ACCESS CONT PANEL1545	20/1	12	23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								0.00
							0.00				27	B	28	-	-	-								0.00
							0.00				29	C	30	-	-	-								0.00
0	2880	0	0	0	8400	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	2.2
B	4.6
C	4.6

Panel Remarks:

*Input di...
***100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	11.3	31.3		11.3	31.3

PANEL: **S1LF**

Date: 12/3/2025 | By: Designer | 1602849

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MLO**
Neutral **200%**
Voltage: **480Y/277V-3PH 4W**
Main... **100 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**
PANEL: **(N)SH1M**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2	(E)	15/3	(E)HWP-2			2275					0.00
177							0.00	(E)LIGHT RM A214 A218	20/1	(E)	3	B	4	-	-	-			2275					0.00
425							0.00	(E)LIGHT MECH	20/1	(E)	5	C	6	-	-	-			2275					0.00
71							0.00	(E)LIGHT ELEC A113	20/1	(E)	7	A	8	(E)	45/3	(E)PCHP-2			5817					0.00
							0.00				9	B	10	-	-	-			5817					0.00
							0.00				11	C	12	-	-	-			5817					0.00
							0.00				13	A	14	(E)	60/3	(E)SCHP-2			7479					0.00
							0.00				15	B	16	-	-	-			7479					0.00
							0.00				17	C	18	-	-	-			7479					0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
0	14400	0	0	0	14560	0	0.00	XFMR S4TA	175/3	SEE	25	A	26		15/3	SPARE								1.00
0	14400	0	0	0	14560	0	0.00	-	-	RISER	27	B	28		-	-								0.00
0	14400	0	0	0	14560	0	0.00	-	-	-	29	C	30		-	-								0.00
0	4320	0	0	0	7680	0	0.00	PANEL SH1D	100/3	SEE	31	A	32	(E)	100/3	(E)PANEL SH1B	130							0.00
0	4320	0	0	0	7680	0	0.00	-	-	RISER	33	B	34	-	-	-	130							0.00
0	4320	0	0	0	7680	0	0.00	-	-	-	35	C	36	-	-	-	130							0.00
					17		0.00	BUILDING METER	15/3	(E)	37	A	38	(E)	70/3	(E)XSIC (45 KVA)						6736		0.00
					17		0.00	-	-	-	39	B	40	-	-	-						6736		0.00
					17		0.00	-	-	-	41	C	42	-	-	-						6736		0.00
							0.00				43	A	44	(E)	225/3	(E)XSIM (150 KVA)						49148		0.00
							0.00				45	B	46	-	-	-						49148		0.00
							0.00				47	C	48	-	-	-						49148		0.00
673	56160	0	0	0	66770	0	0.00	**TOTALS**								**TOTALS**	390	0	46713	0	0	167653	0	1.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
1.1	56.2	46.7	0.0	0.0	234.4	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
1.3	33.1	46.7	0.0	0.0	234.4	0.0	0.5	Design KVA

Phase Load	
Ph	KVA
A	112.6
B	112.7
C	113.0

Panel Remarks:

*Input di...
***100% ...

86880

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	339.4	408.2		316.0	380.1

PANEL: **(N)SH1M**

Date: 12/3/2025 | By: Designer | 1602849

PBK

www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

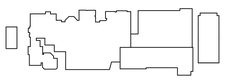
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-709

Plot Stamp:
12/3/2025 7:00:19 PM

ELECTRICAL PANEL SCHEDULES
EP-710
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (100A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL2A

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1106	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1106	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1106	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1106	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1106	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1106	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1106	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1106	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2103	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2103	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2103	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2103	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2103	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2103	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2103	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2103	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	6240	0	0.00	**TOTALS**								**TOTALS**	0	3600	0	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	0.0	0.0	0.0	9.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	0.0	0.0	0.0	9.4	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	9.3
B	7.9
C	7.9

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.2	56.0		19.8	54.8

PANEL: SL2A

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (400A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 400 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL4A

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
0	3600	0	0	0	3120	0	0	PANEL S2LA	100/3	SEE	1	A	2	SEE	100/3	PANEL S2LD	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	RISER	3	B	4	RISER	-	-	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	-	5	C	6	-	-	-	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	PANEL S2LE	100/3	SEE	7	A	8	SEE	100/3	PANEL S2LF	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	RISER	9	B	10	RISER	-	-	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	-	11	C	12	-	-	-	0	3600	0	0	0	4160	0	0
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	21600	0	0	0	18720	0	0.00	**TOTALS**								**TOTALS**	0	21600	0	0	0	24960	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	43.2	0.0	0.0	0.0	43.7	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	26.6	0.0	0.0	0.0	43.7	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	29.0
B	29.0
C	29.0

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	86.9	241.2		70.3	195.1

PANEL: SL4A

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (100A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL2B

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2125	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2125	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2125	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2125	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2125	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2125	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2125	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2125	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	6240	0	0.00	**TOTALS**								**TOTALS**	0	3600	0	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	0.0	0.0	0.0	9.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	0.0	0.0	0.0	9.4	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	4.3
B	7.9
C	7.9

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.2	56.0		19.8	54.8

PANEL: SL2B

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MLO — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL2C

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2125	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2125	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2125	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2125	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2125	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2125	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2125	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2125	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	6240	0	0.00	**TOTALS**								**TOTALS**	0	3600	0	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	0.0	0.0	0.0	9.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	0.0	0.0	0.0	9.4	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	4.3
B	7.9
C	7.9

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.2	56.0		19.8	54.8

PANEL: SL2C

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (100A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL2D

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
					1560		0.00	--	--		11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
	720						0.00	FACP PANEL 1129	20/1	12	19	A	20											0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	21	B	22											0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2125	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2125	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2125	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2125	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2125	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2125	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2125	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2125	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	9360	0	0.00	**TOTALS**								**TOTALS**	0	3600	0	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	0.0	0.0	0.0	12.5	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	0.0	0.0	0.0	12.5	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	4.3
B	9.5
C	9.5

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	23.3	64.6		22.9	63.5

PANEL: SL2D

Date: 12/3/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MLO — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL2E

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2											0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4											0.00
					1560		0.00	--	--		5	C	6											0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8											0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10											0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12											0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14											0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16											0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								0.00
							0.00				27	B	28	-	-	-								0.00
							0.00				29	C	30	-	-	-								0.00
0	3600	0	0	0	3120	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	3.6	0.0	0.0	0.0	3.1	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	3.6	0.0	0.0	0.0	3.1	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	1.4
B	2.6
C	2.6

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	6.7	18.7		6.7	18.7

PANEL: SL2E

Date: 12/3/2025 — By: Designer

Plot Stamp:
12/3/2025 7:00:19 PM

PBK

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TX FIRM: BR 1608

HOUSTON, TX
713-366-0608

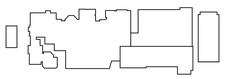
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FOR ALL



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-710

0"

1"

ELECTRICAL PANEL SCHEDULES
EP-711
FOR BLUEBEAM LABELING/OCR:

Job: Job Name | Job No. Job Number | AIC... 42000

Mounting **SURFACE** | Main Type **MCB (100A)** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **100 AMPS** | Ground **Equipment Ground** | Lugs **SINGLE**

PANEL: **EH1C**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
275							0.00	LTG - GYM BOH	20/1	10	**1**	**A**	**2**											0.00
851							0.00	LTG- CORR	20/1	10	**3**	**B**	**4**											0.00
407							0.00	LTG - WEIGHT/TEAMS	20/1	10	**5**	**C**	**6**											0.00
1221							0.00	LTG - LOCKERS	20/1	10	**7**	**A**	**8**											0.00
							0.00	LTG- 2ND FLR STO	20/1	10	**9**	**B**	**10**											0.00
							0.00				**11**	**C**	**12**											0.00
							0.00				**13**	**A**	**14**											0.00
							0.00				**15**	**B**	**16**											0.00
							0.00				**17**	**C**	**18**											0.00
							0.00				**19**	**A**	**20**											0.00
							0.00				**21**	**B**	**22**											0.00
							0.00				**23**	**C**	**24**											0.00
							0.00				**25**	**A**	**26**											0.00
							0.00				**27**	**B**	**28**											0.00
							0.00				**29**	**C**	**30**											0.00
							0.00				**31**	**A**	**32**											0.00
							0.00				**33**	**B**	**34**											0.00
							0.00				**35**	**C**	**36**											0.00
							0.00				**37**	**A**	**38**	10	30/3	SPD								0.00
							0.00				**39**	**B**	**40**		--	--								0.00
							0.00				**41**	**C**	**42**		--	--								0.00
2754	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.5
B	0.9
C	0.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	2.8	3.3		3.4	4.1

PANEL: **EH1C**

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | AIC... 42000

Mounting **SURFACE** | Main Type **MCB (100A)** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **100 AMPS** | Ground **Equipment Ground** | Lugs **SINGLE**

PANEL: **EH1M**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A	0	1	0	0	0	0	0.00	EH1C	100/3	SEE	**1**	**A**	**2**	(E)	100/3	PANEL EH1A	2420							0.00
#N/A	0	1	0	0	0	0	0.00	-	-	RISER	**3**	**B**	**4**	-	-	-	2420							0.00
#N/A	0	1	0	0	0	0	0.00	-	-	-	**5**	**C**	**6**	-	-	-	2420							0.00
#N/A	0	16080	0	0	360	0	0.00	EH2B	125/3	SEE	**7**	**A**	**8**	(E)	100/3	PANEL EH1B	2292							0.00
#N/A	0	16080	0	0	360	0	0.00	-	-	RISER	**9**	**B**	**10**	-	-	-	2292							0.00
#N/A	0	16080	0	0	360	0	0.00	-	-	-	**11**	**C**	**12**	-	-	-	2292							0.00
							0.00				**13**	**A**	**14**	SEE	100/3	PANEL EH1C	918	0	0	0	0	0	0	0.00
							0.00				**15**	**B**	**16**	RISER	-	-	918	0	0	0	0	0	0	0.00
							0.00				**17**	**C**	**18**	-	-	-	918	0	0	0	0	0	0	0.00
							0.00				**19**	**A**	**20**											0.00
							0.00				**21**	**B**	**22**											0.00
							0.00				**23**	**C**	**24**											0.00
							0.00				**25**	**A**	**26**											0.00
							0.00				**27**	**B**	**28**											0.00
							0.00				**29**	**C**	**30**											0.00
							0.00				**31**	**A**	**32**											0.00
							0.00				**33**	**B**	**34**											0.00
							0.00				**35**	**C**	**36**											0.00
							0.00				**37**	**A**	**38**	10	30/3	SPD								0.00
							0.00				**39**	**B**	**40**		--	--								0.00
							0.00				**41**	**C**	**42**		--	--								0.00
#N/A	0	48244	0	0	1080	0	0.00	**TOTALS**								**TOTALS**	16891	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	48.2	0.0	0.0	1.1	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	48.2	0.0	0.0	1.1	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: **EH1M**

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | AIC... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **125 AMPS** | Ground **Equipment Ground** | Lugs **SINGLE**

PANEL: **EH2A**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
#N/A							0.00	LIGHT - 3RD FLR	20/1	12	**1**	**A**	**2**			SPACE								0.00
#N/A							0.00	LIGHT - 2ND FLR	20/1	12	**3**	**B**	**4**			SPACE								0.00
#N/A							0.00	LIGHT - 1ST FLR	20/1	12	**5**	**C**	**6**			SPACE								0.00
							0.00	SPACE			**7**	**A**	**8**			SPACE								0.00
							0.00	SPACE			**9**	**B**	**10**			SPACE								0.00
							0.00	SPACE			**11**	**C**	**12**			SPACE								0.00
							0.00	SPACE			**13**	**A**	**14**			SPACE								0.00
							0.00	SPACE			**15**	**B**	**16**			SPACE								0.00
							0.00	SPACE			**17**	**C**	**18**			SPACE								0.00
							0.00	SPACE			**19**	**A**	**20**			SPACE								0.00
							0.00	SPACE			**21**	**B**	**22**			SPACE								0.00
							0.00	SPACE			**23**	**C**	**24**			SPACE								0.00
							0.00	SPACE			**25**	**A**	**26**			SPACE								0.00
							0.00	SPACE			**27**	**B**	**28**			SPACE								0.00
							0.00	SPACE			**29**	**C**	**30**			SPACE								0.00
							0.00	SPACE			**31**	**A**	**32**			SPACE								0.00
							0.00	SPACE			**33**	**B**	**34**			SPACE								0.00
							0.00	SPACE			**35**	**C**	**36**			SPACE								0.00
0	0	1200	0	0	0	0	0.00	EZTA	50/3	SEE	**37**	**A**	**38**	10	30/3	SPD								0.00
0	0	1200	0	0	0	0	0.00	--	--	RISER	**39**	**B**	**40**		--	--								0.00
0	0	1200	0	0	0	0	0.00	--	--		**41**	**C**	**42**		--	--								0.00
#N/A	0	3600	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	3.6	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	3.6	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: **EH2A**

Date: 12/3/2025 | By: Designer

Job: Job Name | Job No. Job Number | AIC... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **125 AMPS** | Ground **Equipment Ground** | Lugs **SINGLE**

PANEL: **EH2B**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
662							0.00	LIGHT - 3RD FLR	20/1	12	**1**	**A**	**2**			SPACE								0.00
							0.00	LIGHT - 2ND FLR	20/1	12	**3**	**B**	**4**			SPACE								0.00
							0.00	LIGHT - 1ST FLR	20/1	12	**5**	**C**	**6**			SPACE								0.00
							0.00	SPACE			**7**	**A**	**8**			SPACE								0.00
							0.00	SPACE			**9**	**B**	**10**			SPACE								0.00
							0.00	SPACE			**11**	**C**	**12**			SPACE								0.00
							0.00	SPACE			**13**	**A**	**14**			SPACE								0.00
							0.00	SPACE			**15**	**B**	**16**			SPACE								0.00
							0.00	SPACE			**17**	**C**	**18**			SPACE								0.00
							0.00	SPACE			**19**	**A**	**20**			SPACE								0.00
							0.00	SPACE			**21**	**B**	**22**			SPACE								0.00
							0.00	SPACE			**23**	**C**	**24**			SPACE								0.00
0	0	400	0	0	0	0	0.00	EH2D	50/3	SEE	**25**	**A**	**26**			SPACE								0.00
0	0	400	0	0	0	0	0.00	--	--	RISER	**27**	**B**	**28**			SPACE								0.00
0	0	400	0	0	0	0	0.00	--	--		**29**	**C**	**30**			SPACE								0.00
#N/A	0	1200	0	0	0	0	0.00	EH2A	50/3	SEE	**31**	**A**	**32**	SEE	50/3	EH2C	#N/A	0	7840	0	0	0	0	0.00
#N/A	0	1200	0	0	0	0	0.00	--	--	RISER	**33**	**B**	**34**	RISER	--	--	#N/A	0	7840	0	0	0	0	0.00
#N/A	0	1200	0	0	0	0	0.00	--	--		**35**	**C**	**36**		--	--	#N/A	0	7840	0	0	0	0	0.00
0	0	6640	0	0	0	0	0.00	EZTB	50/3	SEE	**37**	**A**	**38**	10	30/3	SPD								0.00
0	0	6640	0	0	0	0	0.00	--	--	RISER	**39**	**B**	**40**		--	--								0.00
0	0	6640	0	0	0	0	0.00	--	--		**41**	**C**	**42**		--	--								0.00
#N/A	0	24720	0	0	0	0	0.00	**TOTALS**								**TOTALS**	#N/A	0	23520	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	48.2	0.0	0.0	1.1	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	48.2	0.0	0.0	1.1	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	#N/A
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: **EH2B**

Date: 12/3/2025 | By: Designer

Plot Stamp:
12/3/2025 7:00:20 PM

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

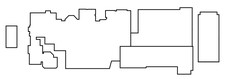
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE ALL FOR EACH



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	Galena Park ISD
DATE	December 5, 2025
PROJECT NUMBER	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-711

ELECTRICAL PANEL SCHEDULES
EP-712
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: Job Name | Job No. Job Number

Mounting SURFACE | Main Type MLO | Neutral 100%

Voltage: 480Y/277V-3PH 4W | Main Size: **125 AMPS**

AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **EH2C** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
468							0.00	LIGHT - 3RD FLR	20/1	12	1	A	2			SPACE								0.00
#N/A							0.00	LIGHT - 2ND FLR	20/1	12	3	B	4			SPACE								0.00
#N/A							0.00	LIGHT - 1ST FLR	20/1	12	5	C	6			SPACE								0.00
							0.00	SPACE			7	A	8			SPACE								0.00
							0.00	SPACE			9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20			SPACE								0.00
							0.00	SPACE			21	B	22			SPACE								0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
0	0	7840	0	0	0	0	0.00	E2TC	50/3	SEE	37	A	38	10	30/3	SPD								0.00
0	0	7840	0	0	0	0	0.00	--	--	RISER	39	B	40		--	--								0.00
0	0	7840	0	0	0	0	0.00	--	--		41	C	42		--	--								0.00
#N/A	0	23520	0	0	0	0	0.00	TOTALS								TOTALS	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
#N/A	0.0	23.5	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
#N/A	0.0	23.5	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	8.3
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	#N/A	#N/A		#N/A	#N/A

PANEL: **EH2C**

Date: 12/3/2025 | By: Designer | 10/22/03

Job: Job Name | Job No. Job Number

Mounting SURFACE | Main Type MLO | Neutral 100%

Voltage: 480Y/277V-3PH 4W | Main Size: **125 AMPS**

AIC... 42000 | Ground Equipment Ground | Lugs SINGLE

PANEL: **EH2D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
468							0.00	LIGHT - 3RD FLR	20/1	12	1	A	2			SPACE								0.00
#N/A							0.00	LIGHT - 2ND FLR	20/1	12	3	B	4			SPACE								0.00
#N/A							0.00	LIGHT - 1ST FLR	20/1	12	5	C	6			SPACE								0.00
							0.00	SPACE			7	A	8			SPACE								0.00
							0.00	SPACE			9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20			SPACE								0.00
							0.00	SPACE			21	B	22			SPACE								0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
0	0	1200	0	0	0	0	0.00	E2TA	50/3	SEE	37	A	38	10	30/3	SPD								0.00
0	0	1200	0	0	0	0	0.00	--	--	RISER	39	B	40		--	--								0.00
0	0	1200	0	0	0	0	0.00	--	--		41	C	42		--	--								0.00
0	0	1200	0	0	0	0	0.00	TOTALS								TOTALS	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.7
B	#N/A
C	#N/A

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	1.2	1.4		1.2	1.4

PANEL: **EH2D**

Date: 12/3/2025 | By: Designer | 10/22/03

Job: GPISD Phase 3b | Job No. 240539

Mounting SURFACE | Main... MCB (100A) | Neutral 200%

Voltage: 208Y/120V-3PH 4W | Main... **100 AMPS**

AIC... 10000 | Ground Equipment Ground | Lugs FEED THRU

PANEL: **EL2A** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1200					0.00	WON DOOR LVL1	20/1	12	1	A	2											0.00
		1200					0.00	WON DOOR LVL 2	20/1	12	3	B	4											0.00
		1200					0.00	WON DOOR LVL 3	20/1	12	5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	0	3600	0	0	0	0	0.00	TOTALS								TOTALS	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.2
B	1.2
C	1.2

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	3.6	10.0		3.6	10.0

PANEL: **EL2A**

Date: 12/3/2025 | By: Designer | 10/22/03

Job: GPISD Phase 3b | Job No. 240539

Mounting SURFACE | Main... | Neutral 200%

Voltage: 208Y/120V-3PH 4W | Main...

AIC... 10000 | Ground Equipment Ground | Lugs FEED THRU

PANEL: **EL2B** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					360		0.00	GC PANEL #1	20/1	12	1	A	2	12	20/2	FIRE DAMPER #1			1080					0.00
					360		0.00	GC PANEL #2	20/1	12	3	B	4	--	--	--			1080					0.00
					360		0.00	GC PANEL #3	20/1	12	5	C	6	12	20/2	FIRE DAMPER #2			1080					0.00
		1200					0.00	WON DOOR MAIN ST	20/1	12	7	A	8	--	--	--			1080					0.00
		1200					0.00	WON DOOR FLR 1	20/1	12	9	B	10	12	20/2	FIRE DAMPER #3			1080					0.00
		1200					0.00	WON DOOR FLR 2	20/1	12	11	C	12	--	--	--			1080					0.00
		1200					0.00	WON DOOR FLR 3	20/1	12	13	A	14	12	20/2	FIRE DAMPER #4			1080					0.00
							0.00				15	B	16	--	--	--			1080					0.00
							0.00				17	C	18	12	20/2	FIRE DAMPER #5			1080					0.00
							0.00				19	A	20	--	--	--			1080					0.00
							0.00				21	B	22	12	20/2	FIRE DAMPER #6			1080					0.00
							0.00				23	C	24	--	--	--			1080					0.00
							0.00				25	A	26	12	20/2	FIRE DAMPER #7			1080					0.00
							0.00				27	B	28	--	--	--			1080					0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	0	4800	0	0	1080	0	0.00	TOTALS								TOTALS	0	0	15120	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	19.9	0.0	0.0	1.1	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	19.9	0.0	0.0	1.1	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	8.2
B	7.0
C	5.9

44.5

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	21.0	58.3		21.0	58.3

PANEL: **EL2B**

Date: 12/3/2025 | By: Designer | 10/22/03

Job: GPISD Phase 3b | Job No. 240539

Mounting SURFACE | Main... MCB (100A) | Neutral 200%

Voltage: 208Y/120V-3PH 4W | Main... **100 AMPS**

AIC... 10000 | Ground Equipment Ground | Lugs FEED THRU

PANEL: **EL2C** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1200					0.00	GC PANEL #1	20/1	12	1	A	2	12	20/2	FIRE DAMPER #1			1080					0.00
		1200					0.00	WON DOOR MAIN ST	20/1	12	3	B	4	--	--	--			1080					0.00
		1200					0.00	WON DOOR FLR 1	20/1	12	5	C	6	12	20/2	FIRE DAMPER #2			1080					0.00
		1200					0.00	WON DOOR FLR 2 A	20/1	12	7	A	8	--	--	--			1080					0.00
		1200					0.00	WON DOOR FLR 2 B	20/1	12	9	B	10	12	20/2	FIRE DAMPER #3			1080					0.00
		1200					0.00	WON DOOR FLR 2 C	20/1	12	11	C	12	--	--	--			1080					0.00
		1200					0.00	WON DOOR FLR 3	20/1	12	13	A	14	12	20/2	FIRE DAMPER #4			1080					0.00
							0.00				15	B	16	--	--	--			1080					0.00
							0.00				17	C	18	12	20/2	FIRE DAMPER #5			1080					0.00
							0.00				19	A	20	--	--	--			1080					0.00
							0.00				21	B	22	12	20/2	FIRE DAMPER #6			1080					0.00
							0.00				23	C	24	--	--	--			1080					0.00
							0.00				25	A	26	12	20/2	FIRE DAMPER #7			1080					0.00
							0.00				27	B	28	--	--	--			1080					0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	0	8400	0	0	0	0	0.00	TOTALS								TOTALS	0	0	15120	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	23.5	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	23.5	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	9.0
B	7.8
C	6.7

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	23.5	65.3		23.5	65.3

PANEL: **EL2C**

Date: 12/3/2025 | By: Designer | 10/22/03

Job: GPISD Phase 3b | Job No. 240539

Mounting SURFACE | Main... MCB (100A) | Neutral 200%

Voltage: 208Y/120V-3PH 4W | Main... **100 AMPS**

AIC... 10000 | Ground Equipment Ground | Lugs FEED THRU

PANEL: **EL2D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1200					0.00	WON DOOR LVL1	20/1	12	1	A	2											0.00
		1200					0.00	WON DOOR LVL 2	20/1	12	3	B	4											0.00
		1200					0.00	WON DOOR LVL 3	20/1	12	5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	0	3600	0	0	0	0	0.00	TOTALS								TOTALS	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.2
B	1.2
C	1.2

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	3.6	10.0		3.6	10.0

PANEL: **EL2D**

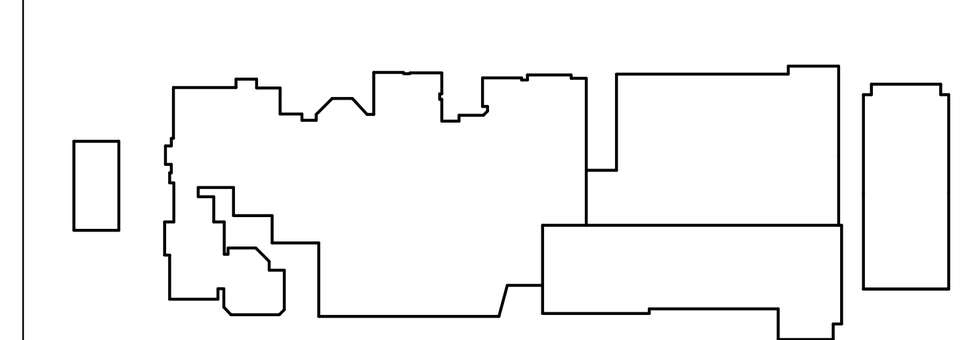
Date: 12/3/2025 | By: Designer | 10/22/03

www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-712

Plot Stamp:
12/3/2025 7:00:21 PM

0"

1"

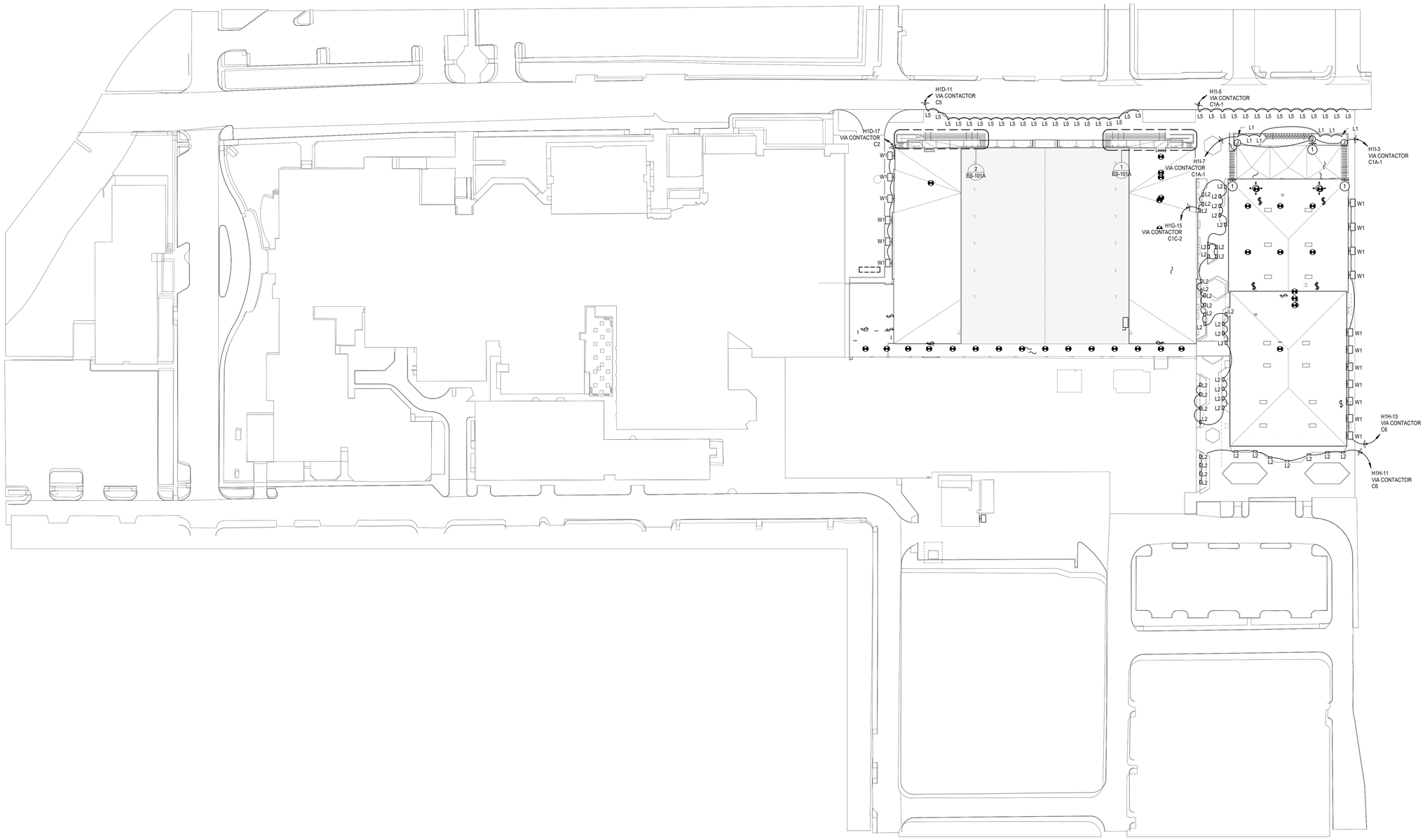
ELECTRICAL SITE PLAN
ES-101
FOR BLUEBEAM LABELING/OCR:

SITE PLAN GENERAL NOTES:

1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

SITE PLAN KEYED NOTES:

(1) REMOTE EXTERIOR NEMA 3R DRIVER LOCATED IN RAISE PLANTER TO PROVIDE POWER TO STAIR NOSE LIGHTING. CONTRACTOR SHALL COORDINATE CONDUIT PATHWAYS AND CONNECTIONS WITH ALL RELEVANT PARTIES FOR INSTALLATION IN CONCRETE STAIRS.



1 **ELECTRICAL SITE PLAN**
SCALE: 1" = 50'-0"

Plot Stamp:
12/3/2025 7:00:27 PM

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TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

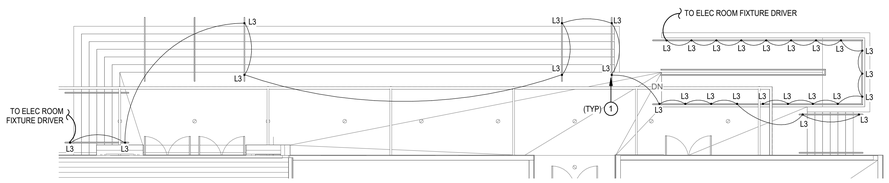
ELECTRICAL SITE PLAN

ES-101

ELECTRICAL SITE PLAN - ENLARGED VIEWS
ES-101A
FOR BLUEBEAM LABELING/OCR:

0"
1"

2 **ELECTRICAL SITE PLAN - Callout 2**
SCALE: 1/8" = 1'-0"



1 **ELECTRICAL SITE PLAN - Callout 1**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ¾"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA. SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

LIGHTING PLAN KEYED NOTES

(1) PUCK LIGHT INSTALLED IN BOTTOM OF HANDRAIL. CONTRACTOR SHALL COORDINATE WITH SUPPLIER OF HANDRAIL FOR ALL INSTALLATION REQUIREMENTS.

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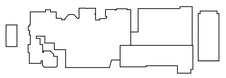
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL SITE PLAN - ENLARGED VIEWS

ES-101A

Plot Stamp:
12/3/2025 7:00:29 PM

0"

1"

PLUMBING COVER SHEET
P-000
FOR BLUEBEAM LABELING/DOCR:

APPLICATION OF BACKFLOW PREVENTERS SCHEDULE (UPC)

DEVICE	DEGREE OF HAZARD	APPLICATION	APPLICABLE STANDARDS
AIR GAP	HIGH OR LOW HAZARD	BACKSIPHONAGE OR BACKPRESSURE	ASME A112.1.2
AIR GAP FITTINGS FOR USE WITH PLUMBING FIXTURES, APPLIANCES AND APPURTENANCES	HIGH OR LOW HAZARD	BACKSIPHONAGE OR BACKPRESSURE	ASME A112.1.3
ANTISIPHON-TYPE FILL VALVES FOR GRAVITY WATER CLOSET FLUSH TANKS	HIGH HAZARD	BACKSIPHONAGE ONLY	ASSE 1002/ASME A112.1002, CSA B125.3, CSA B125.3
BACKFLOW PREVENTER FOR CARBONATED BEVERAGE MACHINES	LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (SIZES 1/4" - 3/8")	ASSE 1022
BACKFLOW PREVENTER WITH INTERMEDIATE ATMOSPHERIC VENTS	LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (SIZES 1/4" - 3/4")	ASSE 1012, CAN/CSA B64.3
BAROMETRIC LOOP	HIGH OR LOW HAZARD	BACKSIPHONAGE ONLY	(SEE IPC 608.14.4)
DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY & DOUBLE CHECK FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLY	LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (SIZES 3/8" - 16")	ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1
DOUBLE CHECK DETECTOR FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLIES	LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (FOR DIVISION 21 SYSTEMS) (SIZES 2" - 16")	ASSE 1048
DUAL-CHECK-VALVE-TYPE BACKFLOW PREVENTER	LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (SIZES 1/4" - 1")	ASSE 1024, CSA B64.6
HOSE CONNECTION BACKFLOW PREVENTER	HIGH OR LOW HAZARD	LOW HEAD BACKPRESSURE, RATED WORKING PRESSURE, BACKPRESSURE OR BACKSIPHONAGE (SIZES 1/2" - 1")	ASSE 1052, CSA B64.2.1.1
HOSE CONNECTION VACUUM BREAKER	HIGH OR LOW HAZARD	LOW HEAD BACKPRESSURE OR BACKSIPHONAGE (SIZES 1/2", 3/4", 1")	ASSE 1011, CAN/CSA B64.2, CSA B64.2.1
LABORATORY FAUCET BACKFLOW PREVENTER	HIGH OR LOW HAZARD	LOW HEAD BACKPRESSURE OR BACKSIPHONAGE	ASSE 1035, CSA B64.7
PIPE-APPLIED ATMOSPHERIC-TYPE VACUUM BREAKER	HIGH OR LOW HAZARD	BACKSIPHONAGE ONLY (SIZES 1/4" - 4")	ASSE 1001, CAN/CSA B64.1.1
PRESSURE VACUUM BREAKER ASSEMBLY	HIGH OR LOW HAZARD	BACKSIPHONAGE ONLY (SIZES 1/2" - 2")	ASSE 1020, CSA B64.1.2
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER & REDUCED PRESSURE PRINCIPLE FIRE PROTECTION BACKFLOW PREVENTER	HIGH OR LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (SIZES 3/8" - 16")	ASSE 1013, AWWA C511, CAN/CSA B64.4, CSA B64.4.1
REDUCED PRESSURE DETECTOR FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLIES	HIGH OR LOW HAZARD	BACKPRESSURE OR BACKSIPHONAGE (FOR DIVISION 21 SYSTEMS)	ASSE 1047
SPILL-RESISTANT VACUUM BREAKER ASSEMBLY	HIGH OR LOW HAZARD	BACKSIPHONAGE ONLY (SIZES 1/4" - 2")	ASSE 1056
VACUUM BREAKER WALL HYDRANTS, FROST-RESISTANT, AUTOMATIC DRAINING TYPE	HIGH OR LOW HAZARD	LOW HEAD BACKPRESSURE OR BACKSIPHONAGE (SIZES 3/4" - 1")	ASSE 1019, CAN/CSA B64.2.2

NOTES:

1. PROVIDE BACKFLOW PREVENTION METHOD AS REQUIRED FOR COMPLIANCE WITH ALL LOCAL APPLICABLE CODES AND AHJS.

PLUMBING ABBREVIATION SCHEDULE

(A)	ITEM NOTED TO BE ABANDONED	KW	KILOWATTS
(D)	ITEM NOTED TO BE DEMOLISHED	L	LAVATORY
(E)	EXISTING ITEM	MAP	MASTER ALARM PANEL
(N)	NEW ITEM	MECH	MECHANICAL
(R)	ITEM NOTED TO BE RELOCATED	MH	MANHOLE
AAP	AREA ALARM PANEL	MS	MOP SINK
AAV	AUTOMATIC AIR VENT	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AP	ACCESS PANEL	NO	NORMALLY OPEN
BFF	BELOW FINISHED FLOOR	OF / CI	OWNER FURNISHED / CONTRACTOR INSTALLED
BFPV	BACKFLOW PREVENTER	OF / OI	OWNER FURNISHED / OWNER INSTALLED
BOB	BOTTOM OF BEAM	OD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	OW	OIL WASTE
BTUH	BRITISH THERMAL UNITS PER HOUR	PIV	POST INDICATOR VALVE
C / C	CUT AND CAP	PRV	PRESSURE REDUCING VALVE
CFH	CUBIC FEET PER HOUR	RD	ROOF DRAIN
CFS	CUBIC FEET PER SECOND	RE:	REFER TO
CI	CAST IRON	RIC	ROUGH-IN AND CONNECT
CLG	CEILING	RO	REVERSE OSMOSIS
CO	CLEANOUT	RP BFPV	REDUCED PRESSURE BACKFLOW PREVENTER
CONN	CONNECTION	RPM	REVOLUTIONS PER MINUTE
CONT	CONTINUATION	RVB	REFRIGERATOR VALVE BOX
DF	DRINKING FOUNTAIN	SD	STORM DRAIN
DPV	DRY PIPE VALVE	SF	SQUARE FEET
DWG	DRAWING	SS	SERVICE (MOP) SINK
EA	EACH	SK	SINK
EDF	ELECTRIC DRINKING FOUNTAIN	TMV	THERMOSTATIC MIXING VALVE
FCO	FLOOR CLEANOUT	TOP	TOP OF PIPE
FD	FLOOR DRAIN	TP	TRAP PRIMER
FDV	FIRE DEPARTMENT VALVE	TYP	TYPICAL
FF	FINISHED FLOOR	U	URINAL
FHC	FIRE HOSE CABINET	U/F	UNDERFLOOR
FL	FLOW LINE	U/S	UNDERSLAB
FS	FLOOR SINK	VB	VACUUM BREAKER
FT	FEET	VCT	VITRIFIED CLAY TILE
FU	FIXTURE UNIT	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	WC	WATER CLOSET
GPH	GALLONS PER HOUR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WH	WALL HYDRANT
HB	HOSE BIBB	WMB	WASHING MACHINE BOX
HP	HORSEPOWER	YH	YARD HYDRANT
IE	INVERT ELEVATION	ZV	ZONE VALVE

NOTES:

1. NOT ALL ABBREVIATIONS MAY BE USED ON THESE DRAWINGS.

PLUMBING FIXTURE CONNECTION SCHEDULE

DESCRIPTION	WASTE	TRAP	VENT	DFU	BRANCH CONN		FIXTURE CONN		FIXTURE UNITS		REMARKS
					CW	HW	CW	HW	CW	HW	
WATER CLOSET (FV)	4"	-	2"	4	1-1/4"	-	1"	-	10.00	-	INTEGRAL TRAP
WATER CLOSET (FT)	4"	-	2"	3	3/4"	-	1/2"	-	2.50	-	INTEGRAL TRAP
LAVATORY	2"	1-1/4"	2"	1	3/4"	3/4"	1/2"	1/2"	0.75	0.75	PROVIDE TMV
SHOWER	2"	2"	2"	2	3/4"	3/4"	1/2"	1/2"	1.50	1.50	PROVIDE TMV
BATH TUB	2"	1-1/2"	2"	3	3/4"	3/4"	1/2"	1/2"	3.00	3.00	PROVIDE TMV
SINK	2"	1-1/2"	2"	2	3/4"	3/4"	1/2"	1/2"	1.13	1.13	PROVIDE TMV
WASHING MACHINE	2"	2"	2"	3	3/4"	3/4"	1/2"	1/2"	3.00	3.00	-
SERVICE SINK	2"	1-1/2"	2"	2	3/4"	3/4"	1/2"	1/2"	2.25	2.25	PROVIDE TMV
HOSE BIBB	-	-	-	-	3/4"	-	3/4"	-	2.50	-	-
FLOOR SINK	2"	2"	2"	2	-	-	-	-	-	-	RE: DRAWINGS FOR SIZE
FLOOR DRAIN	3"	3"	2"	4	-	-	-	-	-	-	RE: DRAWINGS FOR SIZE
ICE MACHINE	-	-	-	-	3/4"	-	1/2"	-	1.00	-	-

NOTES:

1. ROUGH-IN SUPPLY WASTE AND VENT PIPE SIZES INDICATED ABOVE ARE MINIMUM SIZES SHOWN FOR ROUGH-IN ONLY.
2. COORDINATE WITH PLUMBING FIXTURE MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL FIXTURES.
3. ALL PLUMBING FIXTURES SHALL BE COMPLETELY ROUGHED-IN BY THE PLUMBING CONTRACTOR AND SHALL MEET ALL CODES HAVING JURISDICTION.
4. ALL FIXTURES SHALL BE COMMERCIAL GRADE UNLESS OTHERWISE NOTED.
5. PROVIDE AND INSTALL A WATER HAMMER ARRESTOR IN PIPING TO ALL FIXTURES AND/OR FIXTURE BANKS.

PLUMBING SYMBOLS LEGEND

DRAWINGS	DETAILS	ABV.	DESCRIPTION
	AV	AV	ACID VENT
	AW	AW	ACID WASTE
	CA	CA	COMPRESSED AIR
		CW	COLD WATER
		(D)	DEMOLISHED PIPING OR EQUIPMENT
	D	D	CONDENSATE
	DSP	DSP	DRY SPRINKLER
		(E)	EXISTING PIPING OR EQUIPMENT
	F	F	FIRE
	G	G	NATURAL GAS
	GW	GW	GREASE WASTE
		HW	HOT WATER
		HWR	HOT WATER RETURN
	OD	OD	OVERFLOW DRAIN
	SD	SD	STORM DRAIN
	SP	SP	SPRINKLER
	SS	SS	SANITARY SEWER
		V	VENT
			DIRECTION OF FLOW
			DROP IN PIPE
			RISE IN PIPE
			GATE VALVE
			BALL VALVE
			CHECK VALVE
			SUPERVISED VALVE WITH FLOW SWITCH
			PLUG VALVE / GAS COCK
			BUTTERFLY VALVE
			HOT WATER BALANCING VALVE
			PIPE UNION
			PRESSURE CONTROL VALVE
			3-WAY VALVE
			SOLENOID VALVE
	FS		FLOW SWITCH
			PRESSURE GAUGE WITH GAUGE COCK
			THERMOMETER
	RD / ORD		ROOF DRAIN / OVERFLOW DRAIN
	FD		FLOOR DRAIN
	FS		FLOOR SINK
			T & P RELIEF VALVE
			STRAINER
	CO	CO	END OF LINE CLEANOUT
	FCO	FCO	FLOOR CLEANOUT
	WCO	WCO	WALL CLEANOUT
			CAP
			FLEXIBLE CONNECTION
			NEW CONNECTION TO EXISTING PIPING

NOTES:

1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
STORM WASTE	PVC SCH 40 SOLID WALL	CAST IRON NO HUB
SANITARY WASTE AND VENT	PVC SCH 40 SOLID WALL	CAST IRON NO HUB
DOMESTIC WATER	PEX-a	PEX-a PIPE ≤ 3.0" / PIPE ≥ 4.0" CPVC SCH 80
NATURAL GAS	POLYETHYLENE W/ SLEEVE UNDER SLAB	SCH 40 BLACK STEEL
CHEMICAL WASTE AND VENT	PVDF	PVDF RATED FOR RETURN AIR PLENUMS

WATER HAMMER ARRESTOR SCHEDULE

PIPE SIZE	CROSS FIXTURE UNITS	PDI STD.
1/2"	1-11	"A"
3/4"	12-32	"B"
1"	33-60	"C"
1-1/4"	61-113	"D"
1-1/2"	114-154	"E"
2"	155-330	"F"

NOTES:

1. ASSE 1010 WATER HAMMER ARRESTORS SHALL BE PROVIDED TO ALL FIXTURE RUNOUT AND SHALL BE SIZED ACCORDING TO LOCAL PLUMBING CODE (AHJ) & PDI. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. THE DEVICE SHALL HAVE LIFETIME WARRANTY AND BE INSTALLED WITHOUT REQUIRING ACCESS DOORS AND PANELS.

HORIZONTAL DRAIN PIPE SLOPE (UPC)

PIPE SIZE	MINIMUM SLOPE
STORM WASTE DRAINAGE	1/8" PER FOOT (1%)
SANITARY WASTE DRAINAGE	1/4" PER FOOT (2%)
GREASE WASTE DRAINAGE	1/4" PER FOOT (2%)

NOTES:

1. SANITARY WASTE DRAINAGE SLOPES SHALL APPLY TO ANY NON-SPECIFIED DRAINAGE PIPING SYSTEMS (E.G., CHEMICAL WASTE, ETC.) OR AS PER CODE REQUIREMENTS.

DRAWING REFERENCE KEY

REFER TO
DETAIL NUMBER
RE:01/P-401
SHEET NUMBER

PROJECT GENERAL NOTES

A. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS WITH RECOMMENDED REMEDIAL ACTIONS AND COSTS, SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.

B. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LOCAL CODES AS WELL AS ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.

C. THE PLUMBING WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE PLUMBING SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE PLUMBING DRAWINGS AND THE PLUMBING SPECIFICATIONS, THE MORE EXPENSIVE OF THE TWO SHALL APPLY.

D. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH THE INSTALLATION.

E. INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL IMPACTED EXISTING UTILITIES SHALL BE CHECKED BEFORE PROCEEDING WITH NEW WORK.

F. NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ARCHITECT OR ENGINEER.

G. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.

H. ROUGH-IN DIMENSIONS OF ALL TOILET FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR. ROUGH-IN MOUNTING HEIGHTS OF ALL RESTROOMS/SHOWER FIXTURES MUST BE COORDINATED WITH THE ARCHITECTURAL MOUNTING HEIGHTS GUIDELINES PRIOR TO INSTALLATION.

I. PROVIDE SHUT-OFF VALVES FOR WATER HEATER BRANCH. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE IN CONTACT.

J. PROVIDE SHUT-OFF VALVES AT EACH FIXTURE AND AT EACH FLOOR (IF FIXTURES ARE STACKED) ON HOT AND COLD WATER SUPPLY PIPES. PROVIDE HOT WATER RETURN BALANCING VALVE WITH SHUT-OFF VALVE ON HOT WATER RETURN PIPES AT THE END OF A LOOPED HOT WATER BRANCH. LOCATE HOT WATER SHUT-OFF VALVE(S) TO NOT IMPEDE THE HOT WATER RETURN SYSTEM.

K. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.

L. INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.

M. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION ON ALL PARTS AND LABOR.

N. ALL PLUMBING FIXTURES SPECIFIED ARE FOR INFORMATION ONLY. EQUAL EQUIPMENT MAY BE INSTALLED SECURING FIRST THE ENGINEER'S APPROVAL.

O. PITCH ALL WASTE AND SOIL PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN AS REQUIRED PER THE APPLICABLE LOCAL CODES. PITCH ALL GREASE WASTE PIPING AT A MINIMUM OF 1/4" PER FOOT AS REQUIRED PER THE APPLICABLE LOCAL CODES.

P. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. WHERE PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL.

Q. ANY UNAUTHORIZED CHANGES TO THE EQUIPMENT, DESIGN OR INSTALLATION OF THE PLUMBING SYSTEMS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER IS UNACCEPTABLE AND GROUNDS FOR REMOVAL OF ALL LIABILITY OF THE ARCHITECT/ENGINEER FOR THE REVISED DESIGN.

R. PROVIDE CONDENSATE DRAIN FROM ROOF MOUNTED EQUIPMENT TO OPEN SITE DRAIN OR AS SHOWN ON DRAWINGS.

S. ALL PIPING MATERIAL SHALL BE OF DOMESTIC MANUFACTURE AND SHALL COMPLY WITH THE BUY AMERICAN ACT.

PLUMBING TESTING NOTES

1. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS WITH RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.
2. PIPE COVER AND BACKFILLING:
   A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL AND HAND TAMPING IN FOUR (4) INCHES COMPACTED LAYERS TO TWELVE (12) INCHES MINIMUM COVER OVER TOP OF JACKET. COMPACT TO 95 PERCENT MAXIMUM DENSITY.
   B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN UNIFORM LAYERS WITH BACKFILL MATERIAL.
   C. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.
3. PRESSURE TEST ALL DOMESTIC WATER PIPING. AFTER INSTALLATION AND PRIOR TO BACKFILL OR COVER-UP, RINSE PIPING SYSTEM OF PARTICULATE CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSIG FOR FOUR (4) HOURS. REPAIR LEAKS AND DEFECTS AND RE-TEST ANY PORTION OF PIPING SYSTEM THAT FAILS. PROVIDE WRITTEN TEST REPORT INCLUDING DATE AND TIME OF TEST, PASS OR FAIL INDICATION, SUMMARY OF REMEDIAL WORK REQUIRED AND DATE AND TIME OF EACH RE-TEST.
4. PRIOR TO COVER UP, WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BE WITNESSED BY CLIENT PLUMBING TECHNICIAN.
5. UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.
6. ALL WASTE PIPING SYSTEMS:
   A. WATER TEST SHALL BE APPLIED TO THESE DRAINAGE SYSTEMS EITHER IN THEIR ENTIRETY OR IN SECTIONS AS REQUIRED. AFTER ROUGH PIPING HAS BEEN INSTALLED. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY CLOSED EXCEPT THE HIGHEST OPENING IN THE SECTION UNDER TEST. ALL SECTIONS SHALL BE TESTED WITH A MINIMUM OF 10 FEET HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT NO JOINT OF PIPING IN THE BUILDING EXCEPT THE UPPERMOST 10 FEET OF THE SYSTEM SHALL BE SUBMITTED TO A TEST OF LESS THAN 10 FOOT OF HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM FOR AT LEAST 30 MINUTES BEFORE INSPECTION STARTS; THE SYSTEM SHALL THEN BE MADE TIGHT AT ALL POINTS.
   B. ANY POINTS OF THE DRAINAGE SYSTEMS TO BE TESTED WITH AIR INSTEAD OF WATER SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO ANY SUITABLE OPENING AND AFTER CLOSING ALL OTHER INLETS OR OUTLETS, FORCING AIR INTO THE SYSTEM UNTIL THERE IS A MINIMUM GAUGE PRESSURE OF 5 PSI. THIS PRESSURE SHALL BE HELD WITHOUT THE INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST 30 MINUTES.
   C. EXTERIOR CONNECTIONS SHALL BE TESTED AS PART OF THE INTERIOR SYSTEMS.
7. ADDITIONAL TESTS:
   A. PROVIDE ALL ADDITIONAL TESTS SUCH AS SMOKE OR PRESSURE TESTS AS REQUIRED BY THE REGULATIONS OR AS DIRECTED BY AUTHORITIES MAKING THE INSPECTION. CONTRACTOR SHALL COORDINATE SAID ADDITIONAL TESTS WITH ANY THIRD-PARTY TESTING ENTITIES AS REQUIRED.
   B. PROVIDE FOR ANY REPEATED TEST AS DIRECTED BY THE OWNER'S REPRESENTATIVE, TO MAKE ALL SYSTEMS TIGHT AS REQUIRED.
   C. VISUAL INSPECTIONS OF JOINTS, VALVES, ETC. SHALL BE MADE AS DIRECTED BY THE ENGINEER.
   D. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. PRESSURE TEST PRIOR TO BACKFILL, MINIMUM 50 PSI FOR 24 HOURS.

DEMOLITION GENERAL NOTES

A. DEMO AND REMOVE EXISTING FIRE SPRINKLER ALARM VALVE AND ACCESSORIES. THEN PROVIDE AND INSTALL NEW FIRE SPRINKLER ALARM CHECK AS INDICATED.

B. DEMO AND REMOVE ALL EXISTING STORM DOWNSPOUTS, THEN RELOCATE THEM TO NEW CHASE AND RE-CONNECT TO EXISTING UNDERGROUND STORM PIPE AS REQUIRED TO ACCOMMODATE THE NEW ARCHITECTURAL LAYOUT.

C. DEMO AND REMOVE ALL EXISTING PLUMBING FIXTURES AND ACCESSORIES AS REQUIRED. VERIFY WITH OWNER FOR ANY SALVAGEABLE FIXTURES AND TRIMS. CONTRACTOR MUST COORDINATE WITH OWNER PRIOR TO DEMOLITION WORK.

D. DEMO AND REMOVE EXISTING WET SPRINKLER SYSTEM. FOR ANY SYSTEM TO BE RE-USED, THIS CONTRACTOR SHALL COVER AND PROTECT SPRINKLER HEADS FOR THE DURATION OF THE CONSTRUCTION.

E. DEMOLISHED ITEMS ARE PROPERTY OF THE OWNER. OWNER RETAINS SALVAGE RIGHTS TO DEMOLISHED ITEMS.

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

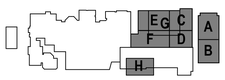
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

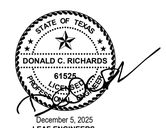
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE



December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

PLUMBING COVER SHEET

P-000

Plot Stamp:
12/3/2025 1:42:06 PM

0"

1"

PLUMBING DEMO SITE PLAN
PD-101
FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 REMOVE SAFELY AND SAFEKEEP EXISTING FIRE BREAK TANK, FIRE PUMP, VALVES, PIPE FITTINGS, PIPES, AND OTHER SALVAGEABLE MATERIALS RELATED TO FIRE PROTECTION TO BE REUSED. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK. CONTRACTOR SHALL SAFEGUARD AND ENSURE THE EXISTING FIRE STORAGE TANK AND FIRE PUMP ARE IN GOOD AND OPERABLE CONDITION PRIOR SHIFTING THEM TO NEW LOCATION.

2 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND ABANDON AFTER DEMOLISHING EXISTING 8" FW LINE UNDER THE FIRE PUMP HOUSE.

3 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND RECONNECT RISER TO NEW FIRE WATER LINE COMING FROM CTE SERVICE YARD.

4 EXISTING WATER METER BY CIVIL.

5 EXISTING BACKFLOW PREVENTER IN PIT BY CIVIL.

6 DEMO EXISTING UNDERGROUND 8" FIRE WATER LINE FROM THE MULTIPURPOSE FACILITY FOOT PRINT TO THE EXISTING CTE .

7 DISCONNECT EXISTING UNDERGROUND 4" GAS LINE AS SHOWN. TEMPORARILY CAP PIPING AT THIS LOCATION FOR REUSE IN NEW ROUTING AS SHOWN ON PS-101. DEMOLISHED PIPING TO BE DRAINED, CAPPED AT ENDS AND ABANDONED IN PLACE.

8 ENSURE EXISTING STORM DRAINAGE PIPING TO REMAIN IN OPERATION UNTIL ABANDONMENT AFTER DEMOLITION OF EXISTING HIGH SCHOOL.

9 DEMOLISH EXISTING UNDERGROUND 6" DRY FIRE LINE SERVING THE EXISTING CTE.

KEYNOTES - PLUMBING PLAN

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

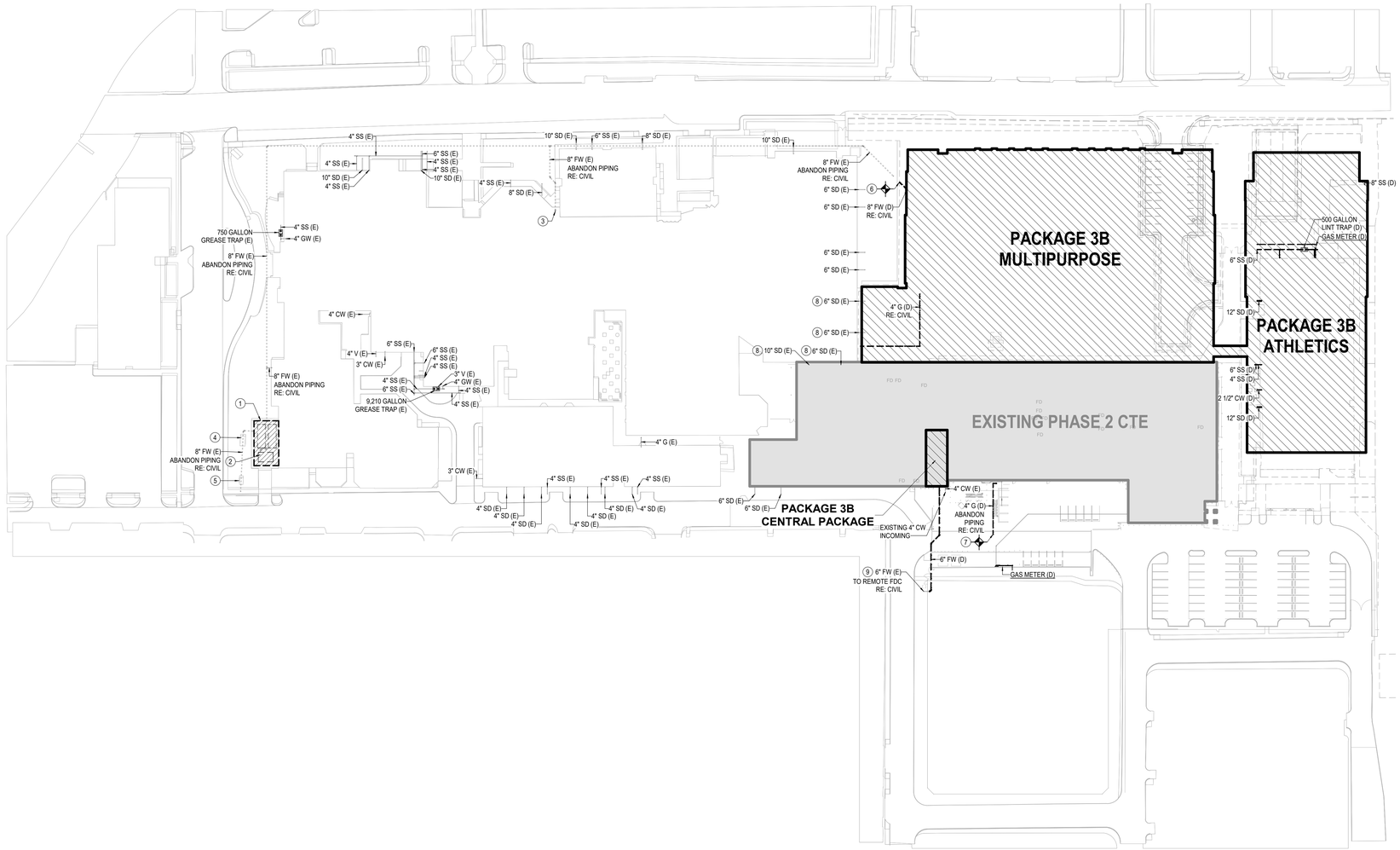
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 PLUMBING DEMO SITE PLAN
1" = 60'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DEMO SITE PLAN

PD-101

PLUMBING SITE PLAN
PS-101
FOR BLUEBEAM LABELING/OCR:

0"
1"

KEYNOTES - PLUMBING PLAN

1 SHIFT THE EXISTING FIRE PUMP AT THE SERVICE YARD. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. REMOVE PIPE BOLLARDS FOR FIRE PUMP HOUSE'S DOOR ACCESS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

2 SHIFT THE EXISTING FIRE STORAGE TANK. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

3 RE-ROUTE GAS PIPING AS SHOWN TO AVOID THE NEW MECHANICAL YARD/ CHILLER.

4 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND ABANDON UNDERGROUND PIPING.

5 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND ABANDON AFTER DEMOLISHING EXISTING 8" FW LINE UNDER THE FIRE PUMP HOUSE.

6 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND RECONNECT RISER TO NEW FIRE WATER LINE COMING FROM CTE SERVICE YARD.

9 CONNECT NEW GAS LINE TO EXISTING.

KEYNOTES - PLUMBING PLAN

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

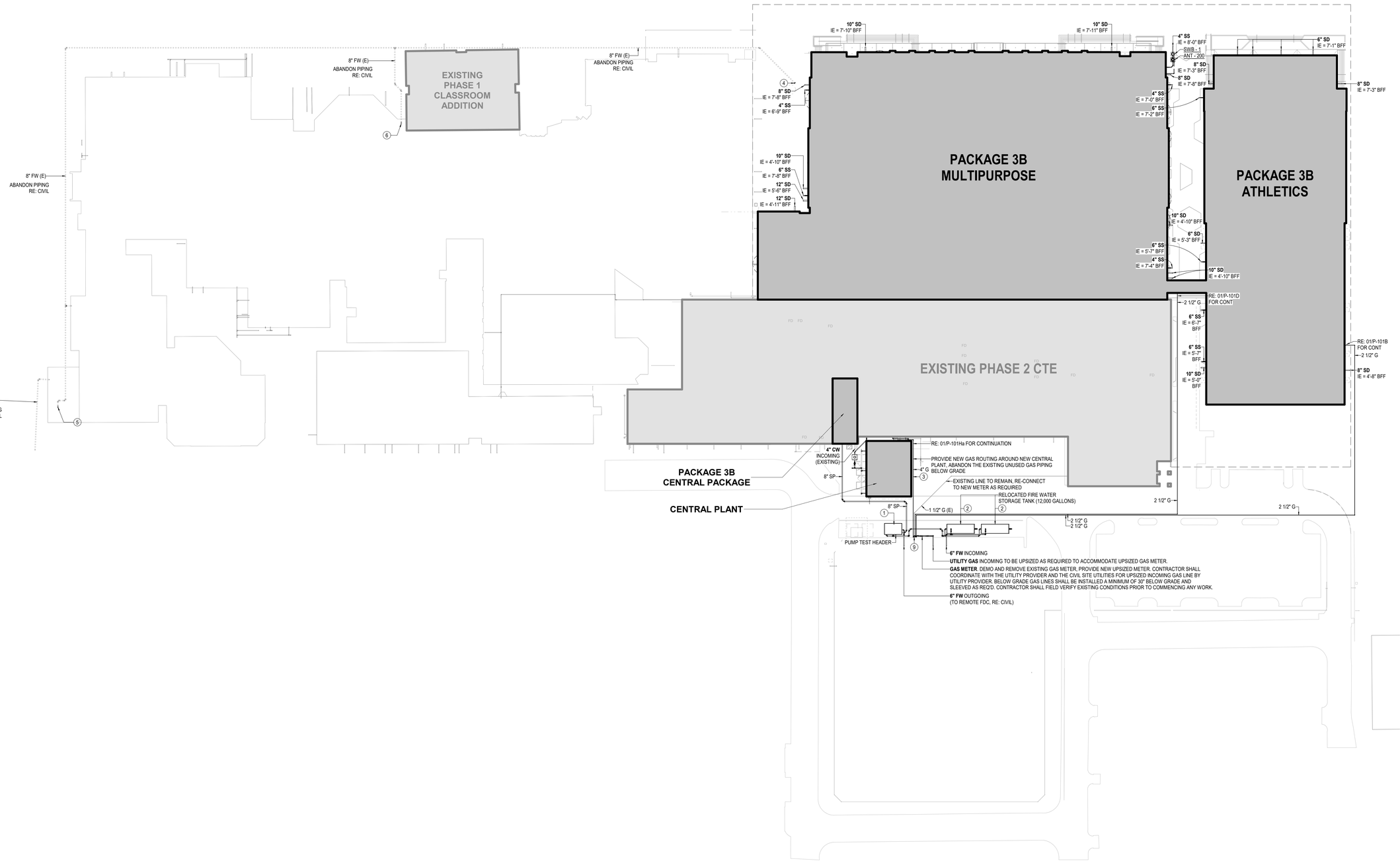
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 PLUMBING SITE PLAN
1" = 40'-0"

Plot Stamp:
12/3/2025 1:42:27 PM

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LEAF ENGINEERS

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TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

PLUMBING SITE PLAN

PS-101

1ST FLOOR FIRE PROTECTION PLAN
PF-101
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE SPRINKLER HEADS/PIPING/EQUIPMENT NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE FIELD VERIFIED OF THEIR EXACT LOCATIONS BY THE FIRE SPRINKLER CONTRACTOR PRIOR TO COMMENCING ANY WORK.

B. ALL EXISTING FIRE PROTECTION SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

C. ALL AREAS OF THE BUILDING(S) SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS AND CODE REQUIREMENTS.

D. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY OWNER AND OWNER'S FIRE INSURANCE UNDERWRITER.

E. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER, OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHALL'S APPROVAL.

F. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

G. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT THE LOCATIONS OF THE SPRINKLER HEADS PRIOR TO INSTALLATION. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, HVAC DIFFUSERS, RETURNS, ETC.

H. CONTRACTOR TO DESIGN SPRINKLER SYSTEM AS REQUIRED TO ACCOMODATE NEW FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, ETC.

I. FLOW AND TAMPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

J. LOCATE INSPECTOR TEST DRAIN(S) AT EXTERIOR WALL AND AWAY FROM FOOT TRAFFIC AND FRONT ENTRY AREAS IN COORDINATION WITH THE ARCHITECTURAL PLANS AND BUILDING CONDITIONS PRIOR TO FINAL INSTALL.

K. CONTRACTOR SHALL COORDINATE WITH ARCHITECT'S PLANS, WHERE APPLICABLE, TO PROVIDE INTERIOR CLASS I STANDPIPE TYPE 2.5" HOSE VALVES PLACED STRATEGICALLY IN BUILDING AREAS MOST AFFECTED BY INCREASED EXIT TRAVEL DISTANCE, TO GIVE RESPONDING FIRE DEPARTMENT ACCESS TO WATER SUPPLY DEEP INTO THE BUILDING'S INTERIOR, AND REDUCE INTERIOR HOSE LENGTHS TO 250 FT.

L. THE FIRE RISER AND/OR FIRE PUMP ROOM LAYOUT REQUIREMENTS NOTED ON THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDE CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO THE OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO THE ARCHITECT'S AND ENGINEER'S REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.

M. REFER TO OWNER'S CRITERIA FOR ADDITIONAL INFORMATION.

N. REFER TO ARCHITECT FOR SPRINKLER SYSTEM DESIGN OCCUPANCY.

FIRE PROTECTION PIPE MATERIAL SCHEDULE

PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
FIRE PROTECTION	SCH 40 BLACK STEEL	SCH 40 BLK STEEL PIPE ≤ 2.5" / PIPE ≥ 2.5" SCH 10 BLK STEEL

FIRE PROTECTION PROPOSED ZONE LEGEND

AREA (SQ FT)	ZONE
49,707	ZONE #1
39,895	ZONE #2
50,412	ZONE #3
44,742	ZONE #4
51,327	ZONE #5
27,303	ZONE #6

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS), PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 6" FIRE LINE TO SERVE ZONE #6.

3 6" FIRE LINE TO SERVE ZONE #1.

4 6" FIRE LINE UP.

5 SHIFT THE EXISTING FIRE PUMP AT THE SERVICE YARD. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. REMOVE PIPE BOLLARDS FOR FIRE PUMP HOUSE'S DOOR ACCESS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

6 SHIFT THE EXISTING FIRE STORAGE TANK. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

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Galena Park, TX 77547

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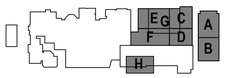
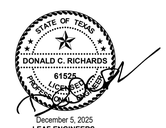


KEY PLAN
NORTH: PLAN = TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

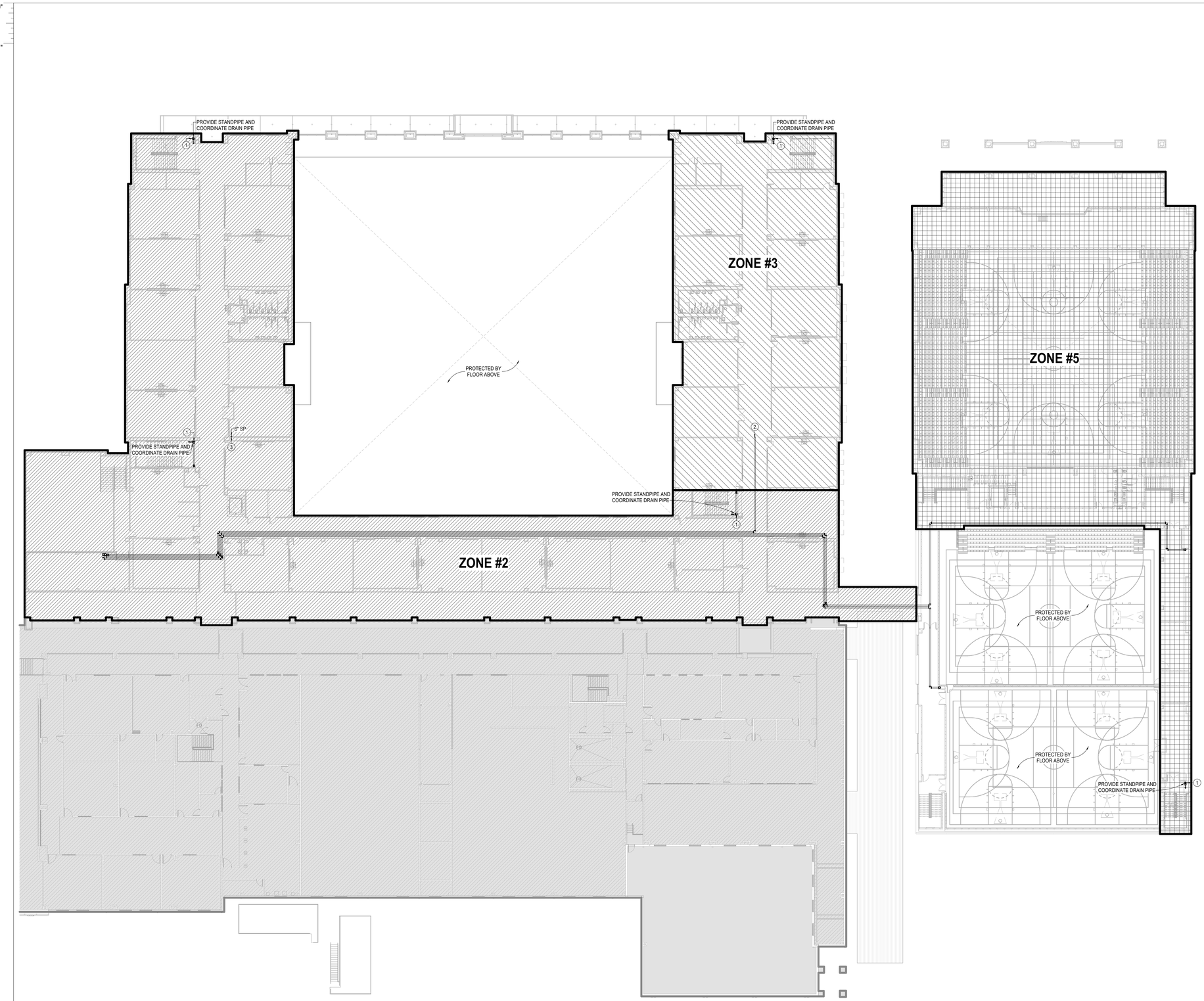
1ST FLOOR FIRE PROTECTION PLAN

PF-101

Plot Stamp:
12/3/2025 1:42:36 PM

2ND FLOOR FIRE PROTECTION PLAN
PF-102
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 2ND FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE SPRINKLER HEADS/PIPING/EQUIPMENT NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE FIELD VERIFIED OF THEIR EXACT LOCATIONS BY THE FIRE SPRINKLER CONTRACTOR PRIOR TO COMMENCING ANY WORK.

B. ALL EXISTING FIRE PROTECTION SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

C. ALL AREAS OF THE BUILDING(S) SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS AND CODE REQUIREMENTS.

D. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY OWNER AND OWNER'S FIRE INSURANCE UNDERWRITER.

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FIRE PROTECTION PIPE MATERIAL SCHEDULE

PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
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FIRE PROTECTION PROPOSED ZONE LEGEND

AREA (SQ FT)	ZONE
49,707	ZONE #1
39,895	ZONE #2
50,412	ZONE #3
44,742	ZONE #4
51,327	ZONE #5
27,303	ZONE #6

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 6" FIRE LINE TO SERVE ZONE #3.

3 6" FIRE LINE UP.

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LEAF ENGINEERS

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Galena Park, TX 77547

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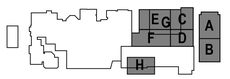


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

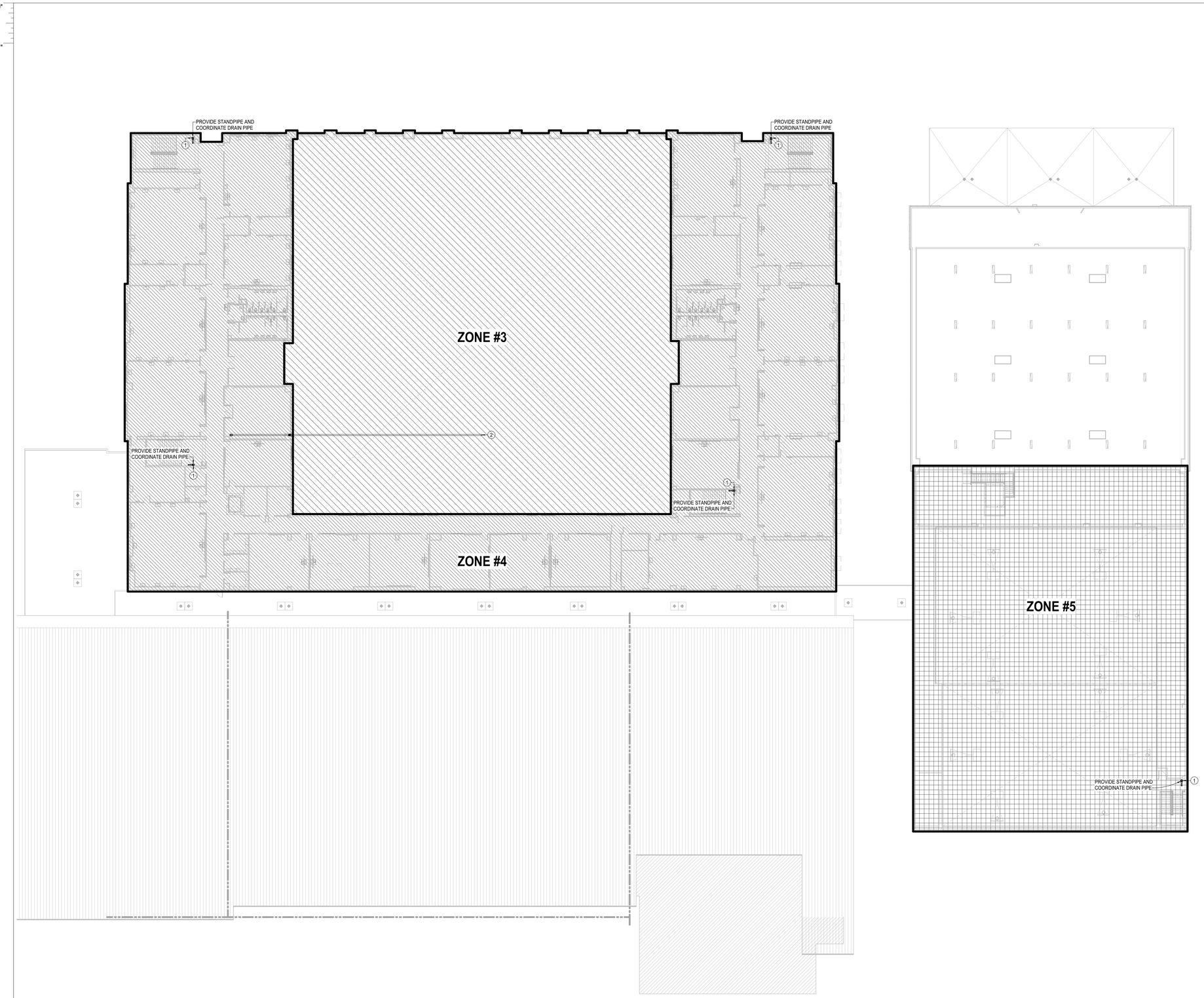
2ND FLOOR FIRE PROTECTION PLAN

PF-102

Plot Stamp:
12/3/2025 1:42:44 PM

2ND FLOOR FIRE PROTECTION PLAN
PF-103
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 3RD FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

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FIRE PROTECTION PIPE MATERIAL SCHEDULE

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FIRE PROTECTION PROPOSED ZONE LEGEND

AREA (SQ FT)	ZONE
49,707	ZONE #1
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KEYNOTES - PLUMBING PLAN

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2 6" FIRE LINE TO SERVE ZONE #3.

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LEAF ENGINEERS

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Galena Park, TX 77547

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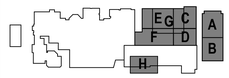


KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

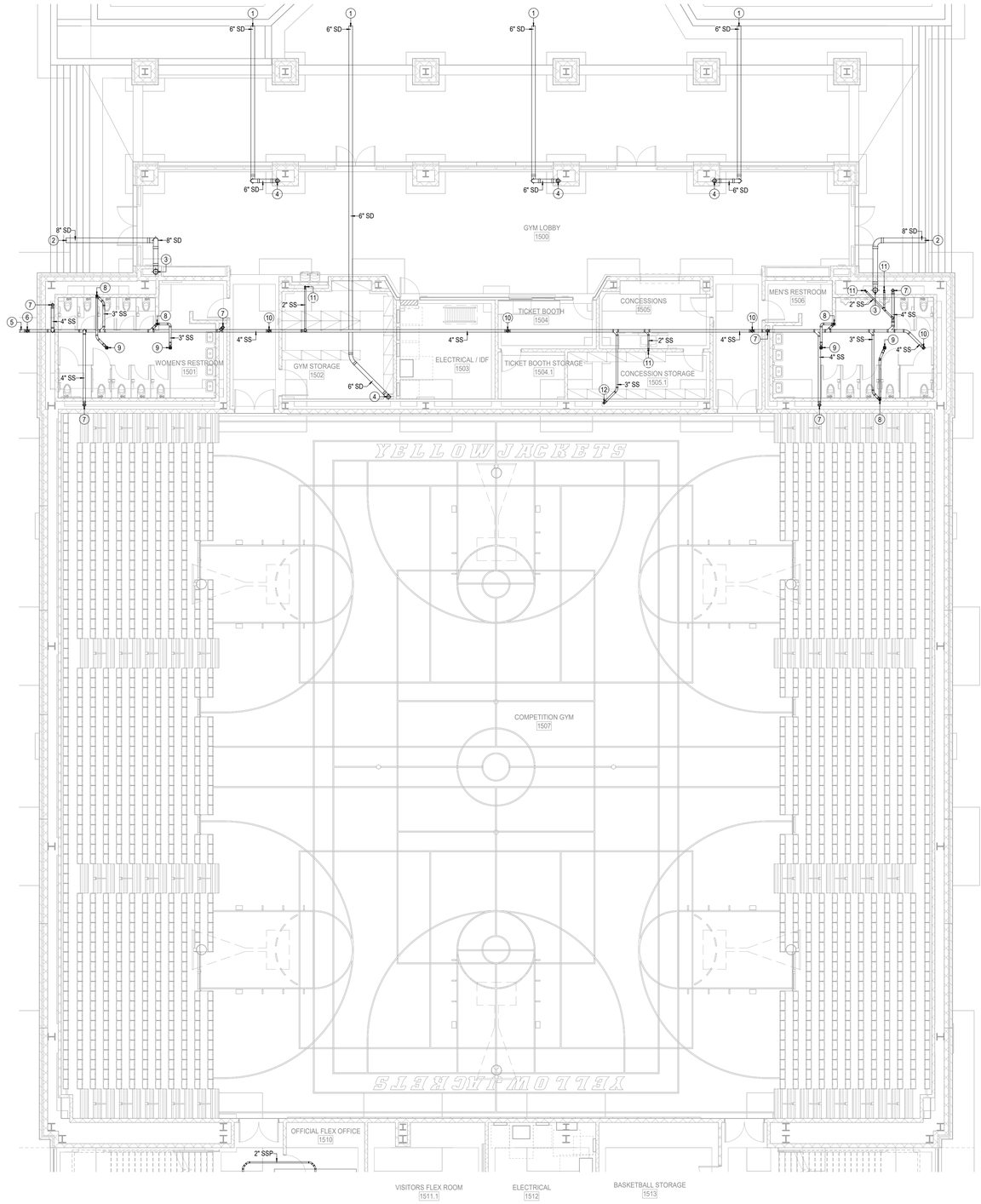
2ND FLOOR FIRE PROTECTION PLAN

PF-103

Plot Stamp:
12/3/2025 1:42:45 PM

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A NEW GYM FLOOR PLAN
PU-101A
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 6" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
2 8" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
3 8" STORM PIPE DOWN FROM ABOVE.
4 6" STORM PIPE DOWN FROM ABOVE.
5 4" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
6 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.
7 4" WASTE DOWN FROM ABOVE.
8 3" WASTE DOWN AND 2' VENT UP.
9 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.
10 4" WASTE DOWN FROM FLOOR CLEANOUT.
11 2" WASTE DOWN FROM ABOVE.
12 3" WASTE DOWN FROM ABOVE.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A NEW GYM FLOOR PLAN

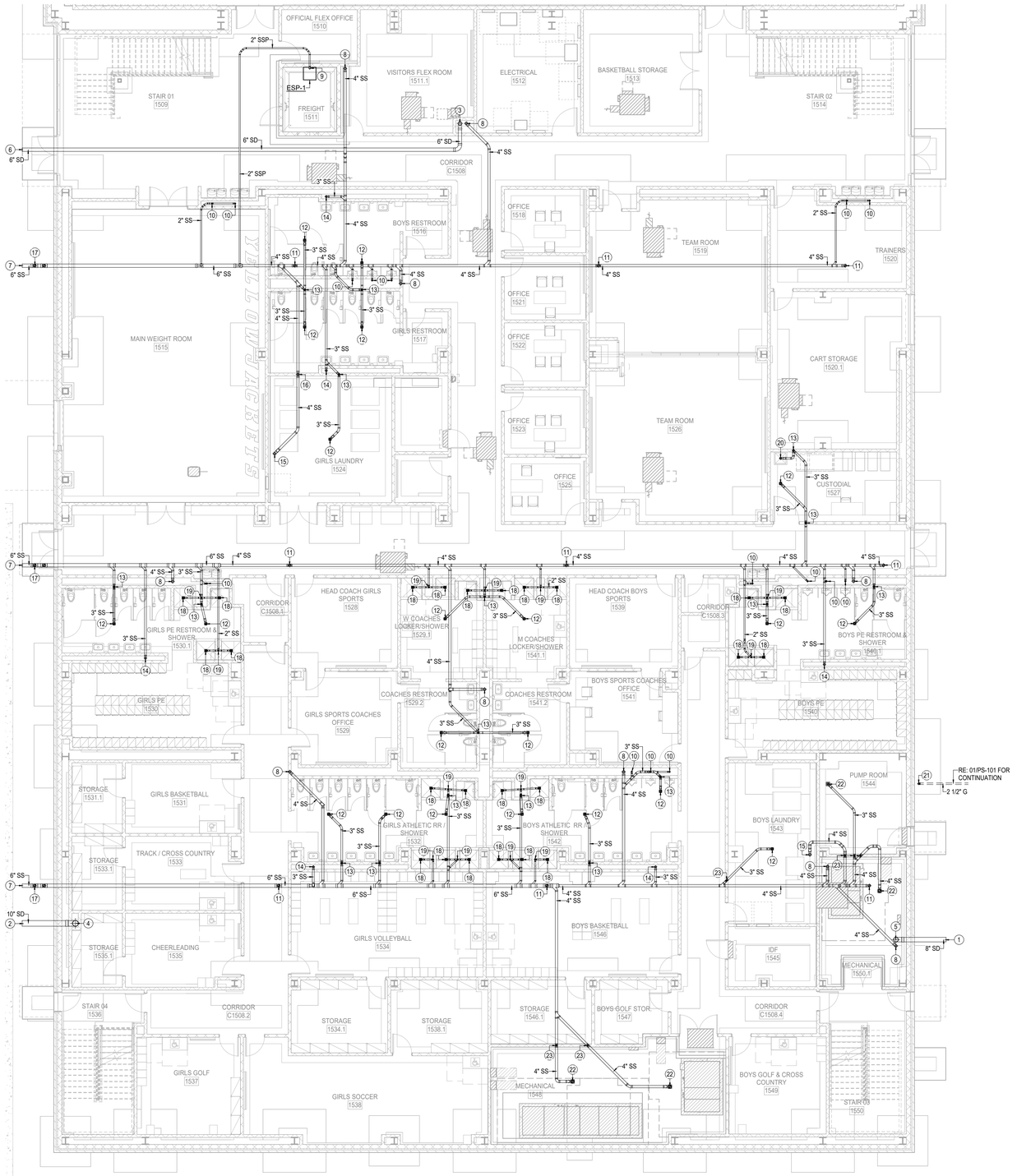
PU-101A

Plot Stamp:
12/1/2025 8:26:40 PM

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA B NEW GYM FLOOR PLAN
PU-101B

FOR BLUEBEAM LABELING/OCR:

0"
1"



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

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KEYNOTES - PLUMBING PLAN

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2 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

3 6" STORM PIPE DOWN FROM ABOVE.

4 10" STORM PIPE DOWN FROM ABOVE.

5 8" STORM PIPE DOWN FROM ABOVE.

6 6" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

7 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

8 4" WASTE DOWN FROM ABOVE.

9 2" WASTE (PUMPED) FROM BELOW FLOOR ELEVATOR SUMP PUMP (ESP).

10 2" WASTE DOWN FROM ABOVE.

11 4" WASTE DOWN FROM FLOOR CLEANOUT.

12 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

13 3" WASTE DOWN AND 2" VENT UP.

14 3" WASTE DOWN FROM ABOVE.

15 4" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

16 4" WASTE DOWN AND 2" VENT UP.

17 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.

18 2" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

19 2" WASTE DOWN AND 2" VENT UP.

20 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

21 2-1/2" GAS UP.

22 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

23 2" VENT UP.

1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA B NEW GYM FLOOR PLAN

PU-101B

Plot Stamp:
12/1/2025 8:26:46 PM

0"
1"

FOR BLUEBEAM LABELING/OCR:

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101C

KEYNOTES - PLUMBING PLAN

1 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
2 8" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
3 10" STORM PIPE DOWN FROM ABOVE.
4 8" STORM PIPE DOWN FROM ABOVE.
5 REFER TO CIVIL DRAWING FOR CONTINUATION.
6 4" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
7 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.
8 4" WASTE DOWN FROM ABOVE.
9 4" VENT UP.
10 3" WASTE DOWN FROM ABOVE.
11 4" WASTE DOWN FROM FLOOR CLEANOUT.
12 2" WASTE DOWN FROM ABOVE.
13 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.
14 3" WASTE DOWN AND 2" VENT UP.

KEYNOTES - PLUMBING PLAN

15 4" WASTE DOWN AND 2" VENT UP.

GENERAL NOTES - PLUMBING PLAN

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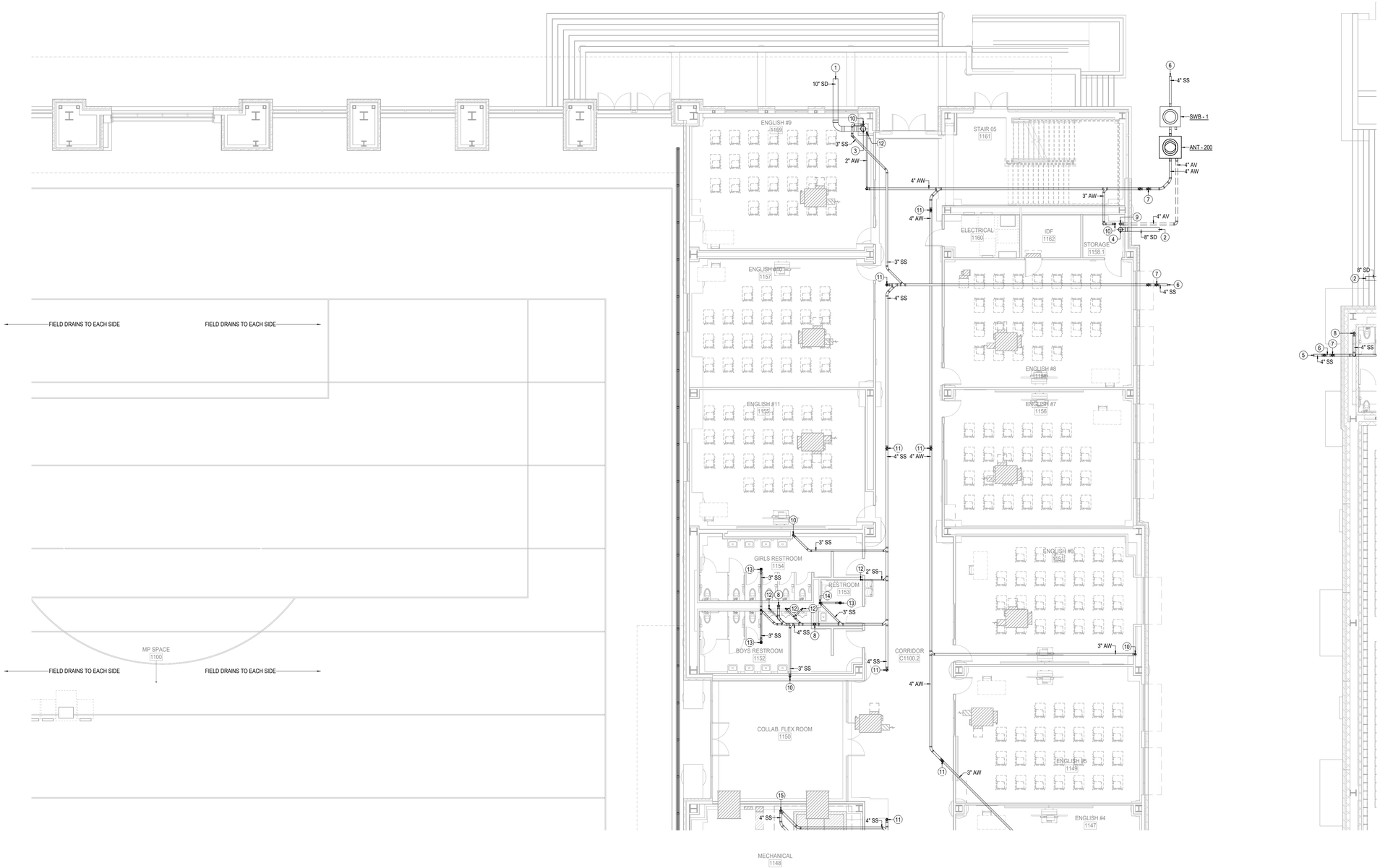
P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:26:52 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101C

0"

1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

2 4" STORM PIPE DOWN FROM ABOVE.

3 10" STORM PIPE DOWN FROM ABOVE.

4 8" STORM PIPE DOWN FROM ABOVE.

5 6" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

6 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

7 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.

8 4" WASTE DOWN FROM FLOOR CLEANOUT.

9 4" WASTE DOWN AND 2' VENT UP.

10 3" WASTE DOWN FROM ABOVE.

11 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

12 4" WASTE DOWN FROM ABOVE.

13 2" WASTE DOWN FROM ABOVE.

14 2-1/2" GAS UP.

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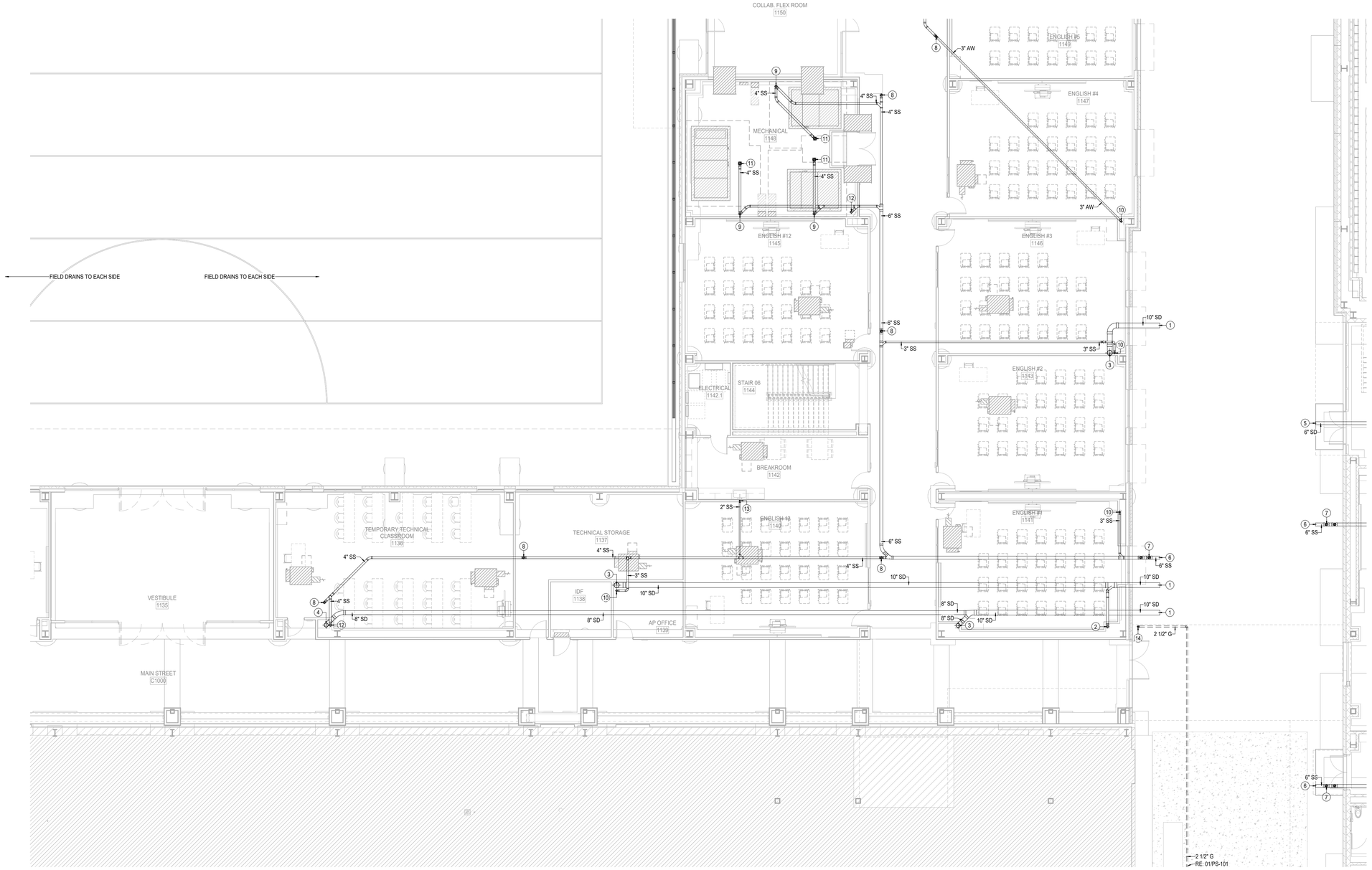

1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:26:57 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC

DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101D

0"
1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:
PU-101E



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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2 8" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

3 8" STORM PIPE DOWN FROM ABOVE.

4 10" STORM PIPE DOWN FROM ABOVE.

5 4" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

6 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.

7 2" WASTE DOWN FROM ABOVE.

8 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

9 3" WASTE DOWN AND 2" VENT UP.

10 4" WASTE DOWN FROM ABOVE.

11 2" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

12 2" WASTE DOWN AND 2" VENT UP.

13 3" WASTE DOWN FROM ABOVE.

14 4" WASTE DOWN FROM FLOOR CLEANOUT.

15 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

16 4" WASTE DOWN AND 2" VENT UP.

1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101E

Plot Stamp:
12/1/2025 8:27:00 PM

0"
1"

FOR BLUEBEAM LABELING/OCR:

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101F

KEYNOTES - PLUMBING PLAN

1 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
2 12" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
3 10" STORM PIPE DOWN FROM ABOVE.
4 6" STORM PIPE DOWN FROM ABOVE.
5 12" STORM PIPE DOWN FROM ABOVE.
6 8" STORM PIPE DOWN FROM ABOVE.
7 4" WASTE DOWN FROM FLOOR CLEANOUT.
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KEYNOTES - PLUMBING PLAN

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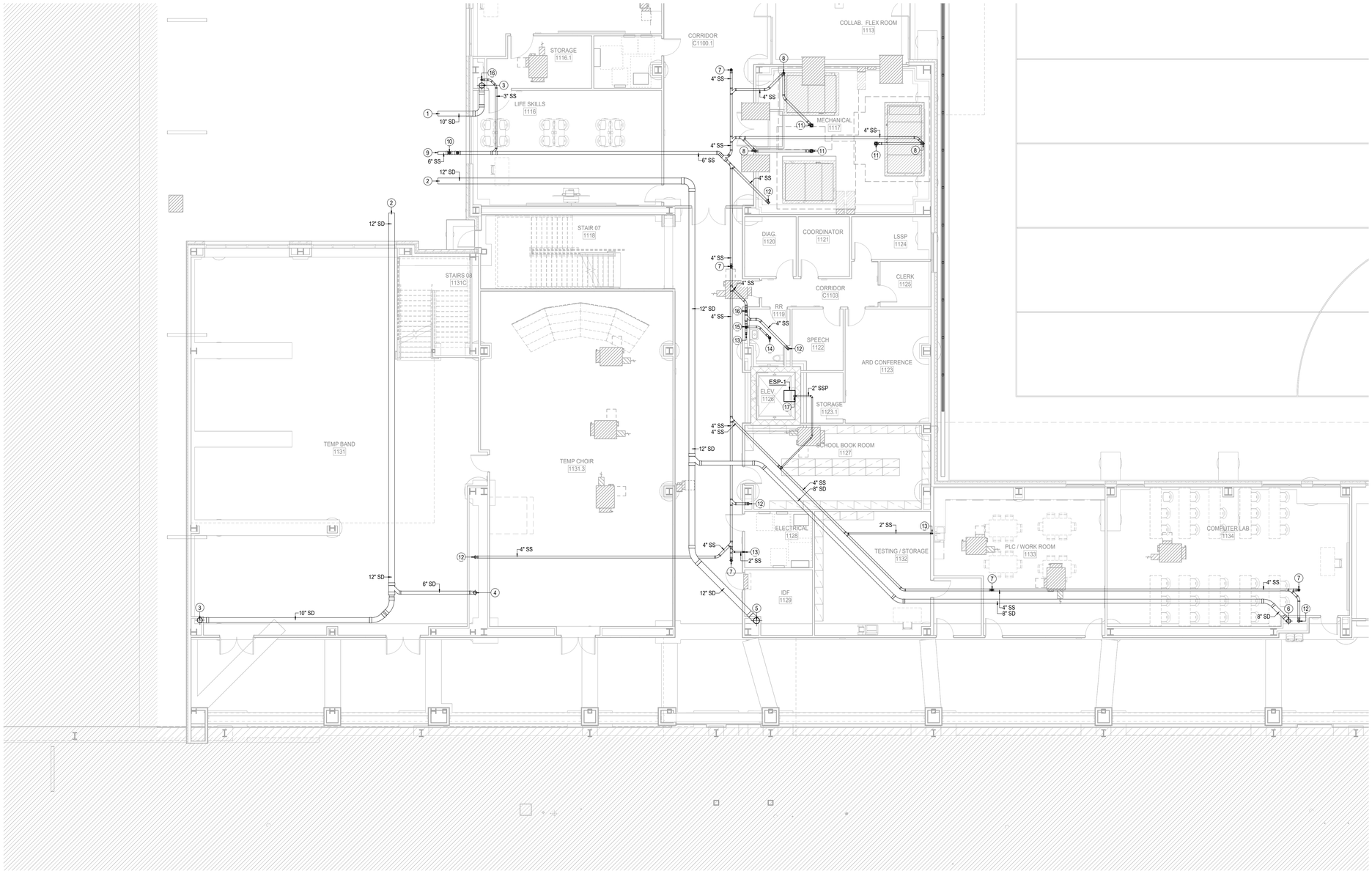
P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:27:03 PM

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TX FIRM: BR 1608
HOUSTON, TX
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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

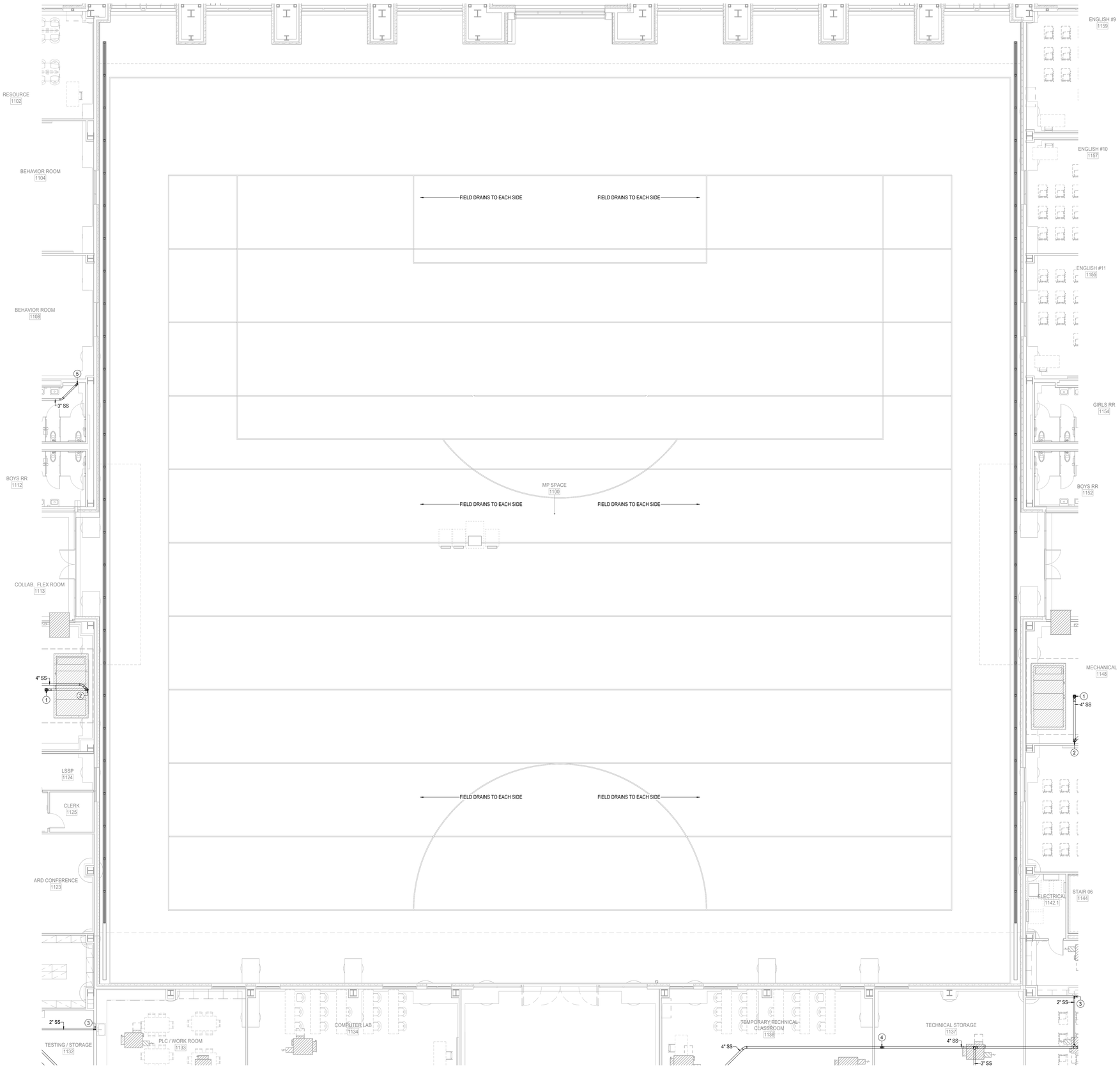
1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101F

0"
1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

2 4" WASTE DOWN AND 2" VENT UP.

3 2" WASTE DOWN FROM ABOVE.

4 4" WASTE DOWN FROM FLOOR CLEANOUT.

5 3" WASTE DOWN FROM ABOVE.

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LEAF ENGINEERS

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ISSUE FOR PROPOSAL

Galena Park ISD

G

KEY PLAN

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STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC

DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

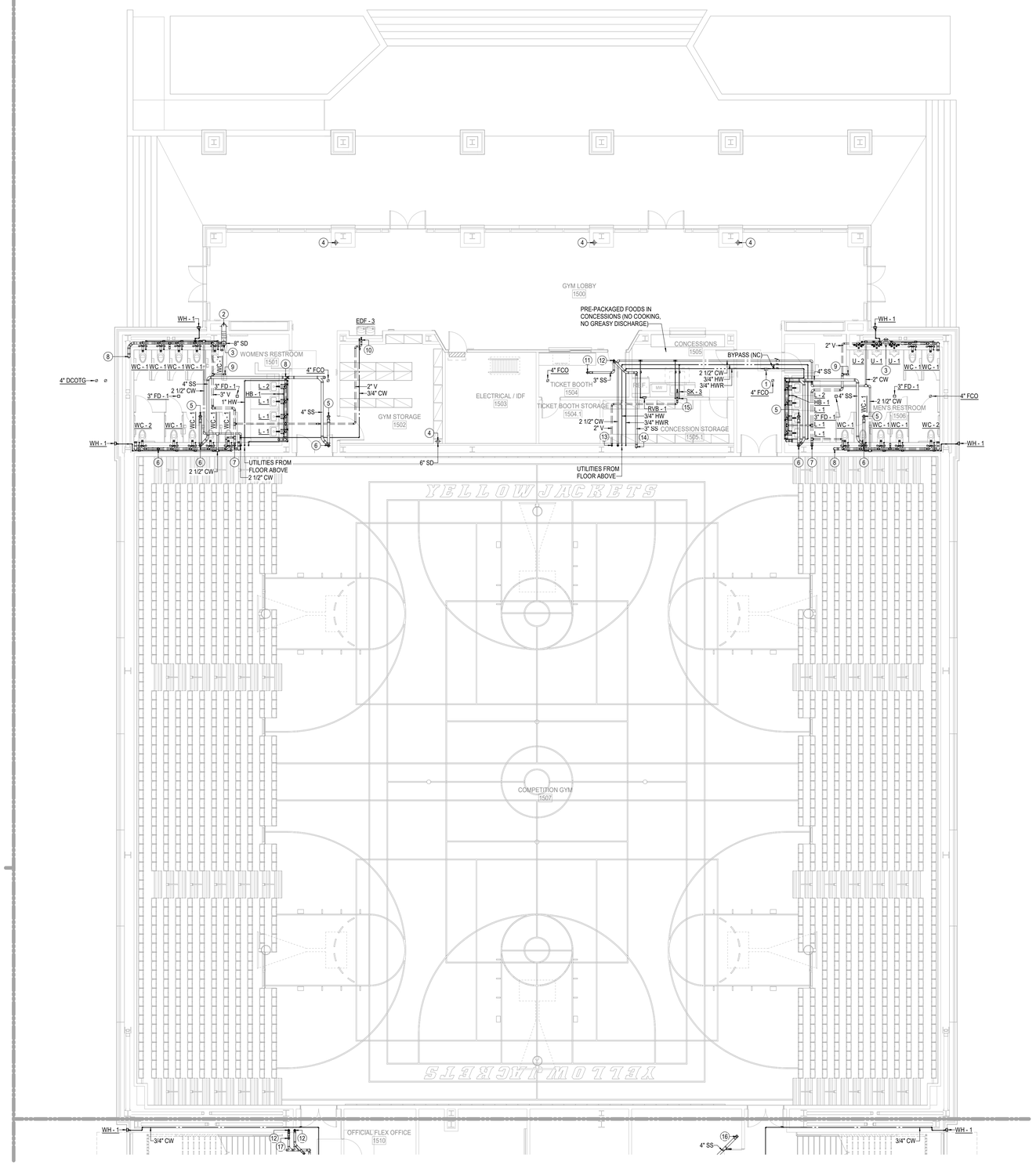
PU-101G

Plot Stamp:
12/3/2025 1:42:48 PM

1ST FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN
P-101A

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 1ST FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN
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GENERAL NOTES - PLUMBING PLAN

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KEYNOTES - PLUMBING PLAN

1 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

2 8" STORM PIPE DOWN.

3 8" STORM PIPE DOWN FROM ABOVE.

4 6" STORM PIPE DOWN FROM ABOVE.

5 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

6 4" WASTE DOWN AND 2" VENT UP.

7 3" VENT UP.

8 4" WASTE DOWN.

9 2" VENT UP FROM BELOW.

10 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

11 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

12 3" WASTE DOWN AND 2" VENT UP.

13 2" VENT UP.

14 3" WASTE DOWN.

15 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

16 4" WASTE DOWN FROM ABOVE.

17 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

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LEAF ENGINEERS

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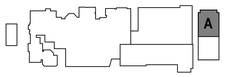


KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC

DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN

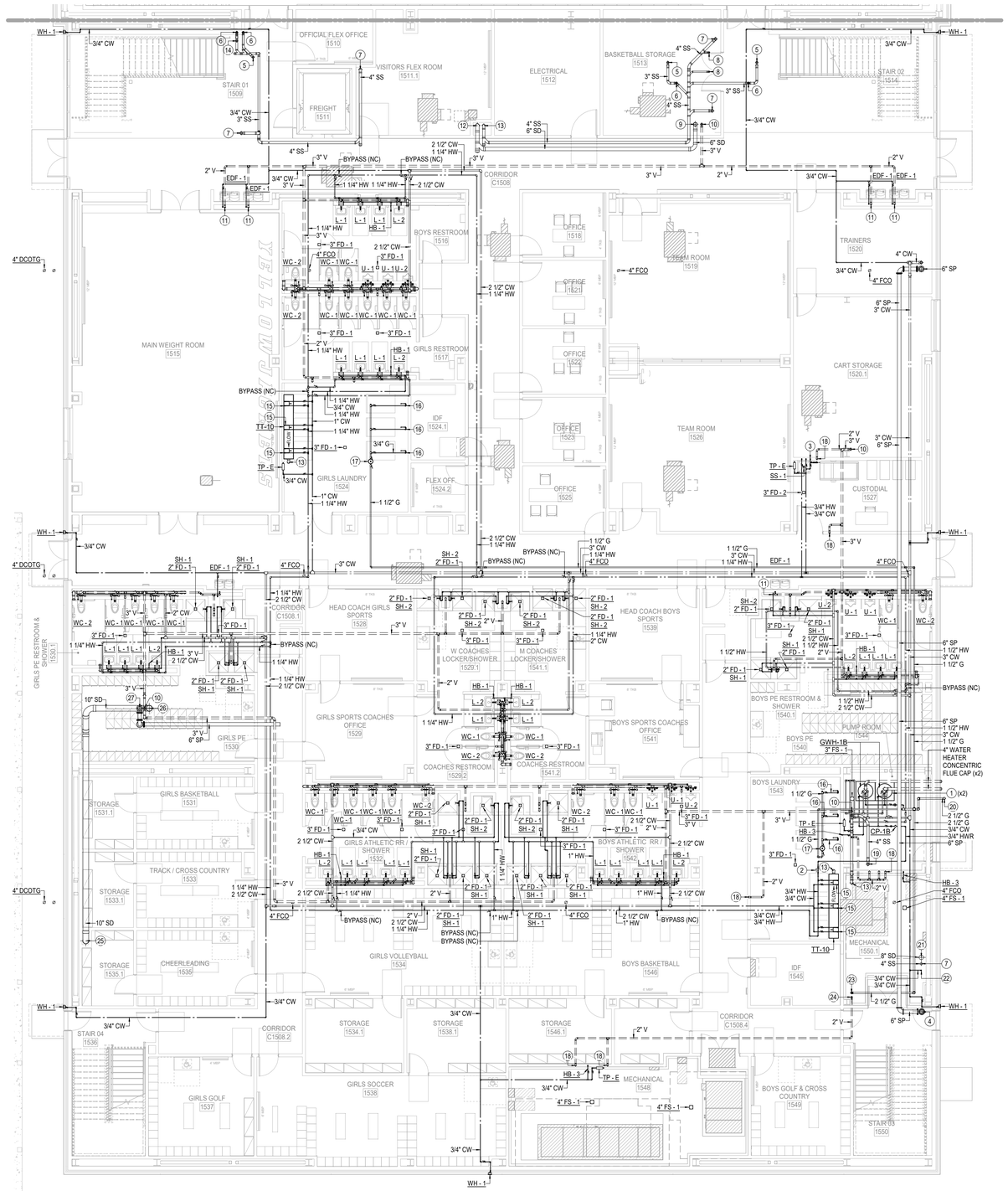
P-101A

Plot Stamp:
12/1/2025 8:27:09 PM

1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-101B

FOR BLUEBEAM LABELING/DOCR:

0"
1"



1 1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 DOMESTIC GAS WATER HEATER AND CONCENTRIC VENT KIT SHALL BE PROVIDED BY PLUMBING CONTRACTOR. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE 2" THICK, INSTALLED R-8, FIBERGLASS INSULATION FOR METAL INTAKE PIPING FOR CONDENSATION PREVENTION. REFER TO PLUMBING DETAILS FOR SEALED COMBUSTION CONCENTRIC VENT DETAIL. PROVIDE 4" WATER HEATER CONCENTRIC FLUE CAP (x2) AT EXTERIOR PENETRATION. CONTRACTOR SHALL REFER TO MANUFACTURER'S REQUIREMENTS FOR EXACT INSTALLATION NEEDS PRIOR TO COMMENCING ANY INSTALL WORK.

2 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

3 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

4 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL. A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

5 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

6 3" WASTE DOWN AND 2" VENT UP.

7 4" WASTE DOWN FROM ABOVE.

8 2" WASTE DOWN FROM ABOVE.

9 6" STORM PIPE DOWN FROM ABOVE.

10 3" VENT UP.

11 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

12 6" STORM PIPE DOWN.

13 4" WASTE DOWN.

14 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

15 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

16 3/4" GAS DOWN.

17 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE. VENT REGULATOR TO THE EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

18 2" VENT UP FROM BELOW.

19 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

20 2-1/2" GAS DOWN.

21 8" STORM PIPE DOWN FROM ABOVE.

22 3/4" COLD WATER UP.

23 2-1/2" GAS UP.

24 2" VENT UP.

25 10" STORM PIPE DOWN.

26 10" STORM PIPE DOWN FROM ABOVE.

27 6" FIRE LINE UP.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN

P-101B

Plot Stamp:
12/1/2025 8:27:17 PM

0"
1"

1ST FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN-101C

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

2 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC LMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

3 4" WASTE DOWN.

4 8" STORM PIPE DOWN FROM ABOVE.

5 3" WASTE DOWN FROM ABOVE.

6 8" STORM PIPE DOWN.

7 3" WASTE DOWN.

8 4" VENT UP.

9 10" STORM PIPE DOWN FROM ABOVE.

10 2" WASTE DOWN FROM ABOVE.

11 2" VENT UP.

12 3" WASTE DOWN AND 2" VENT UP.

KEYNOTES - PLUMBING PLAN

13 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

14 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

15 4" WASTE DOWN FROM ABOVE.

16 3" VENT UP.

17 2" VENT UP FROM BELOW.

18 4" WASTE DOWN AND 2" VENT UP.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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GENERAL NOTES - PLUMBING PLAN

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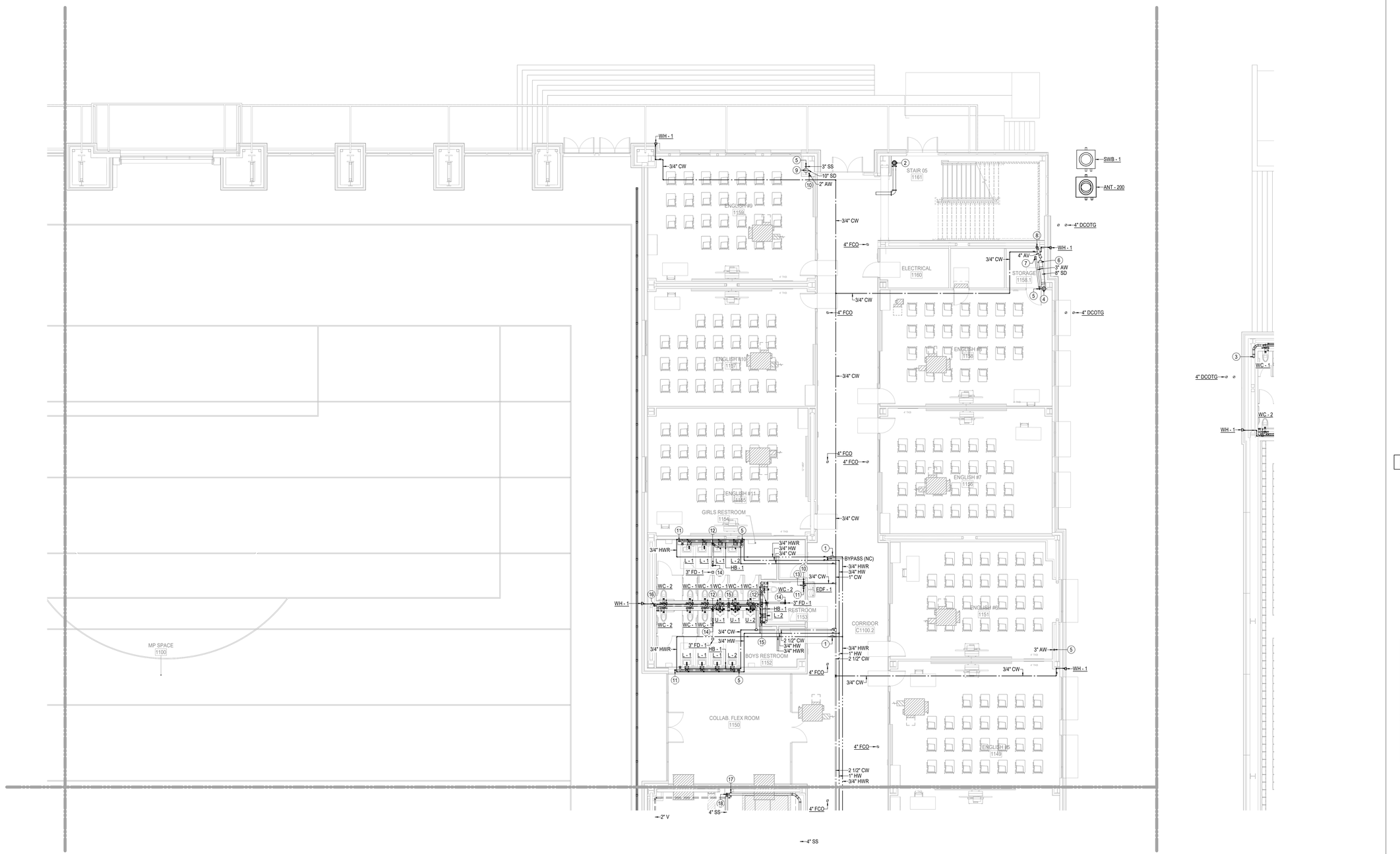

1 1ST FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:27:23 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101C

0"
1"

1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101D

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

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2 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

3 2" VENT UP FROM BELOW.

4 4" WASTE DOWN AND 2" VENT UP.

5 2" VENT UP.

6 4" WASTE DOWN FROM ABOVE.

7 3" WASTE DOWN FROM ABOVE.

8 3" WASTE DOWN.

9 10" STORM PIPE DOWN FROM ABOVE.

10 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

11 8" STORM PIPE DOWN FROM ABOVE.

KEYNOTES - PLUMBING PLAN

12 4" STORM PIPE DOWN FROM ABOVE.

13 2-1/2" GAS UP.

14 2-1/2" GAS DOWN.

15 10" STORM PIPE DOWN.

GENERAL NOTES - PLUMBING PLAN

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

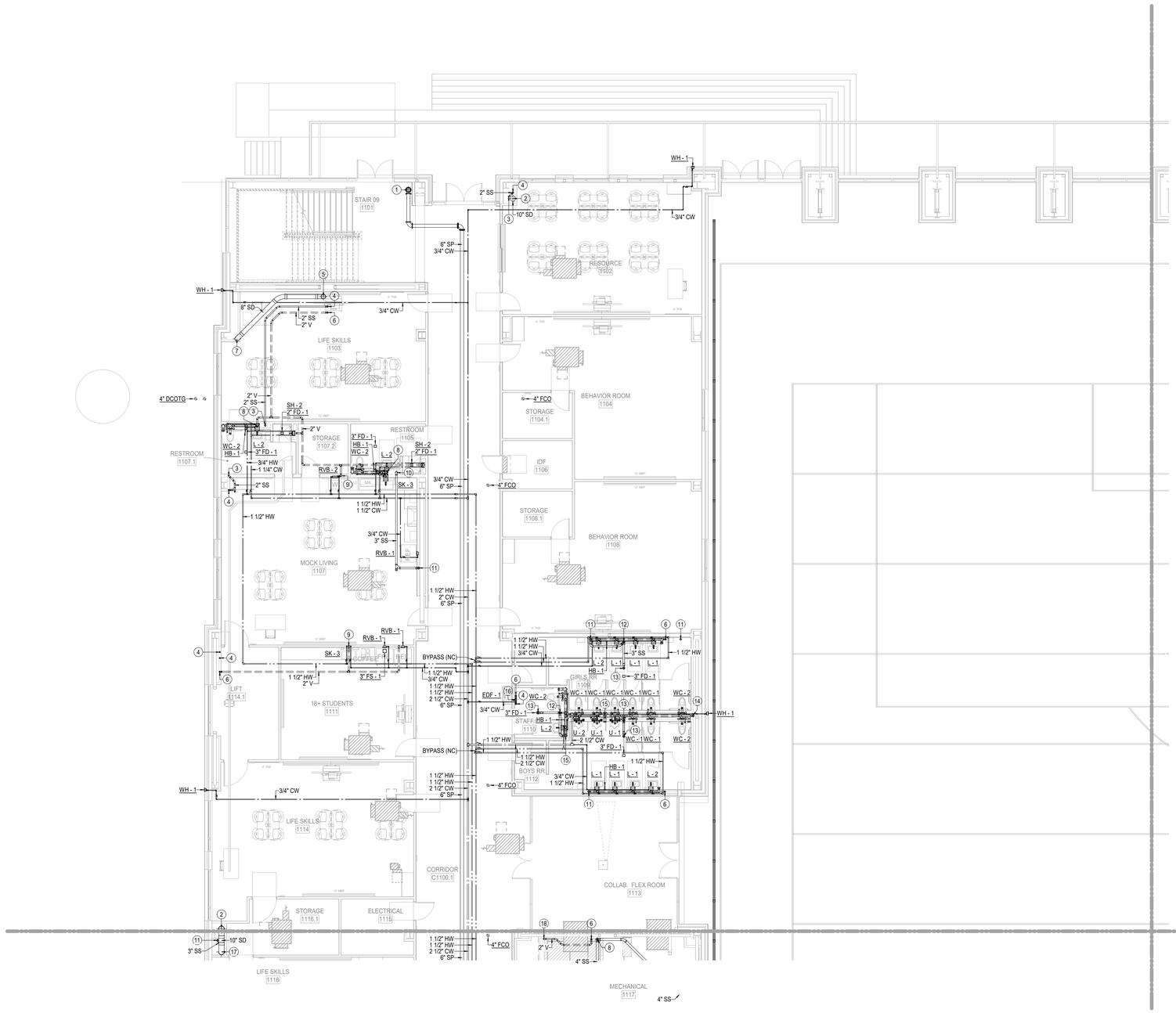
P-101D

0"
1"

1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101E

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

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KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 10" STORM PIPE DOWN FROM ABOVE.

3 2" WASTE DOWN.

4 2" WASTE DOWN FROM ABOVE.

5 8" STORM PIPE DOWN FROM ABOVE.

6 2" VENT UP.

7 8" STORM PIPE DOWN.

8 4" WASTE DOWN AND 2" VENT UP.

9 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

10 3" WASTE DOWN.

11 3" WASTE DOWN FROM ABOVE.

12 3" WASTE DOWN AND 2" VENT UP.

13 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

14 3" VENT UP.

15 4" WASTE DOWN FROM ABOVE.

16 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

17 10" STORM PIPE DOWN.

18 2" VENT UP FROM BELOW.

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101E

Plot Stamp:
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0"
1"

1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101F

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

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2 10" STORM PIPE DOWN FROM ABOVE.

3 3" WASTE DOWN FROM ABOVE.

4 10" STORM PIPE DOWN.

5 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

6 4" WASTE DOWN AND 2" VENT UP.

7 3" WASTE DOWN AND 2" VENT UP.

8 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

9 6" STORM PIPE DOWN FROM ABOVE.

10 6" STORM PIPE DOWN.

11 4" WASTE DOWN.

12 6" FIRE LINE UP.

KEYNOTES - PLUMBING PLAN

13 12" STORM PIPE DOWN FROM ABOVE.

14 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

15 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

16 3" WASTE DOWN.

17 2" VENT UP FROM BELOW.

18 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

19 2" VENT UP.

20 4" WASTE DOWN FROM ABOVE.

21 2" WASTE DOWN FROM ABOVE.

22 8" STORM PIPE DOWN FROM ABOVE.

23 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

GENERAL NOTES - PLUMBING PLAN

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1/8" = 1'-0"

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Galena Park ISD

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STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

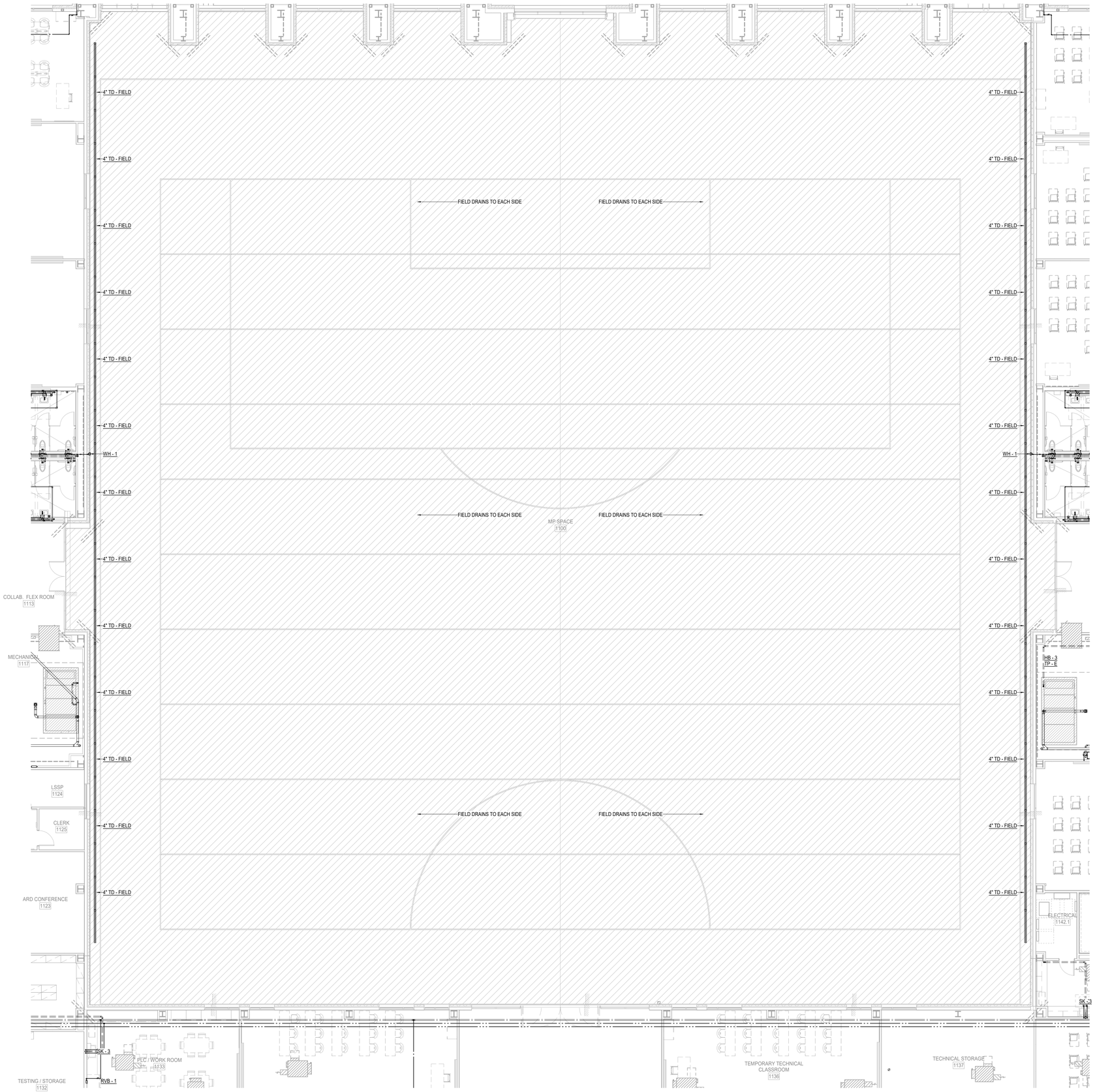
P-101F

1ST FLOOR PLUMBING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN-101G

FOR BLUEBEAM LABELING/OCR:

0"

1"



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1/8" = 1'-0"

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KEYNOTES - PLUMBING PLAN

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December 5, 2025
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CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC

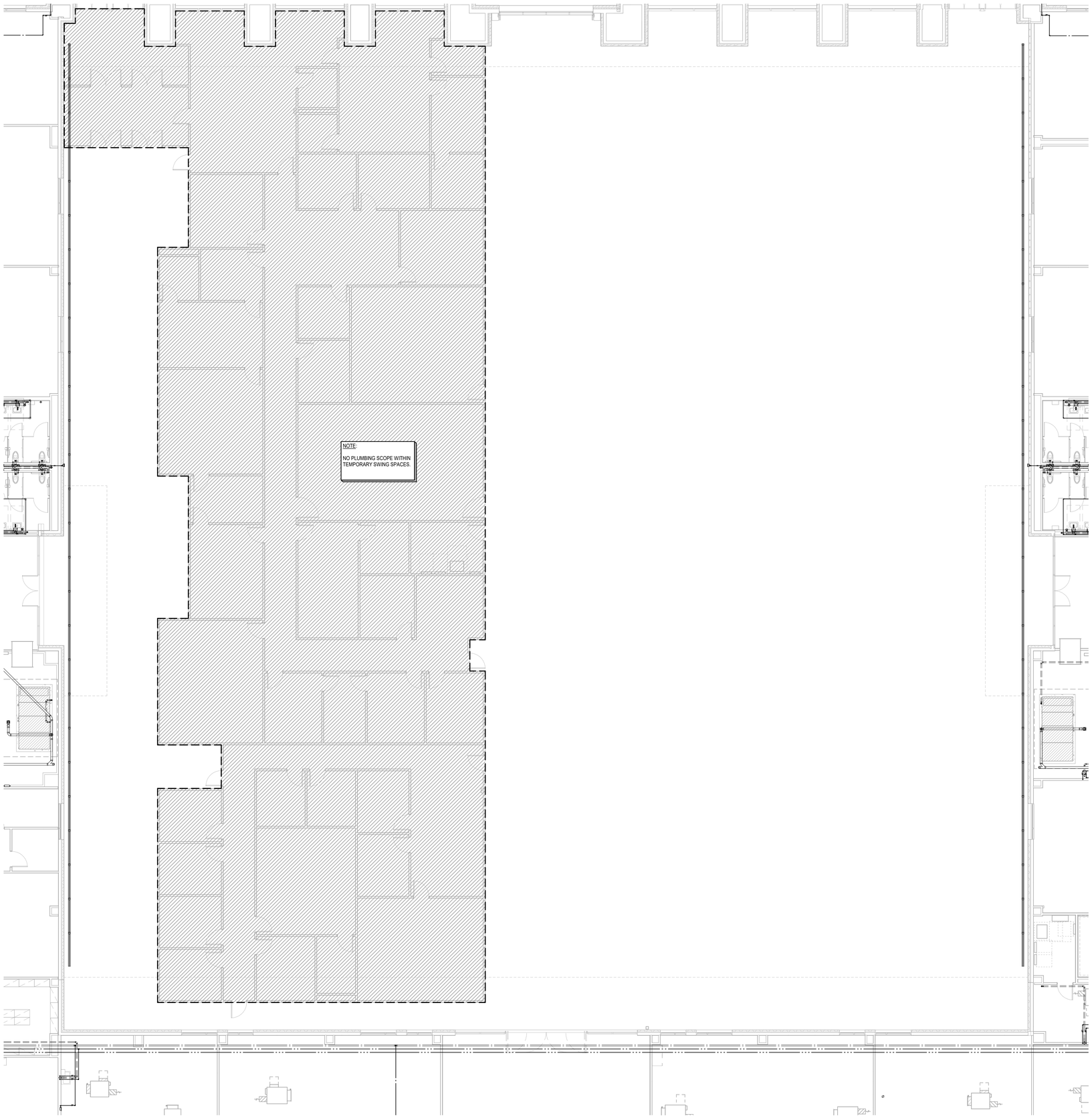
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101G

Plot Stamp:
12/3/2025 1:42:49 PM

1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES
P-101GT
FOR BLUEBEAM LABELING/OCR:



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1/8" = 1'-0"

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KEYNOTES - PLUMBING PLAN

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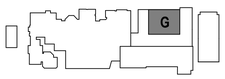

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
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PROFESSIONAL ENGINEER
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F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

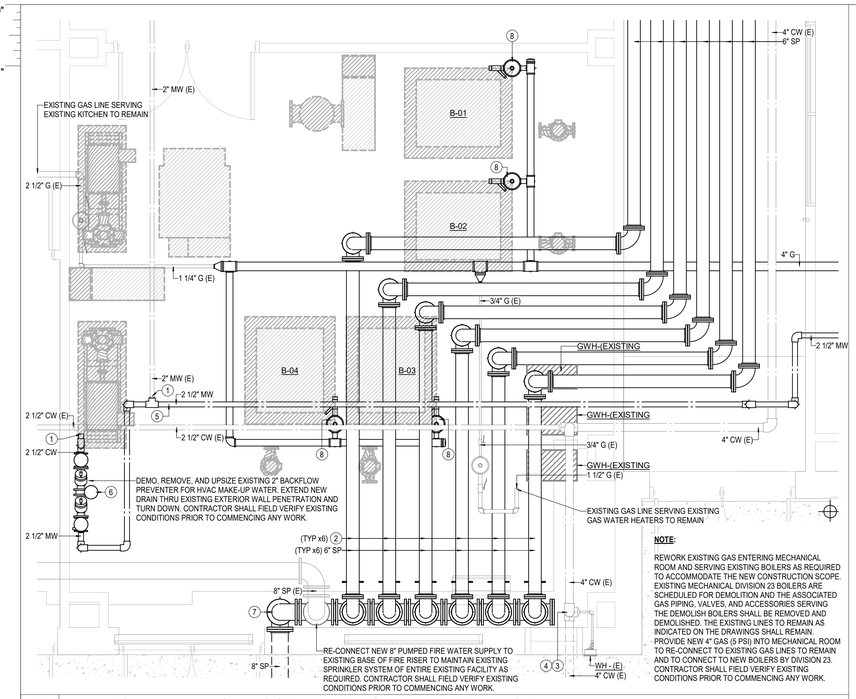
CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES

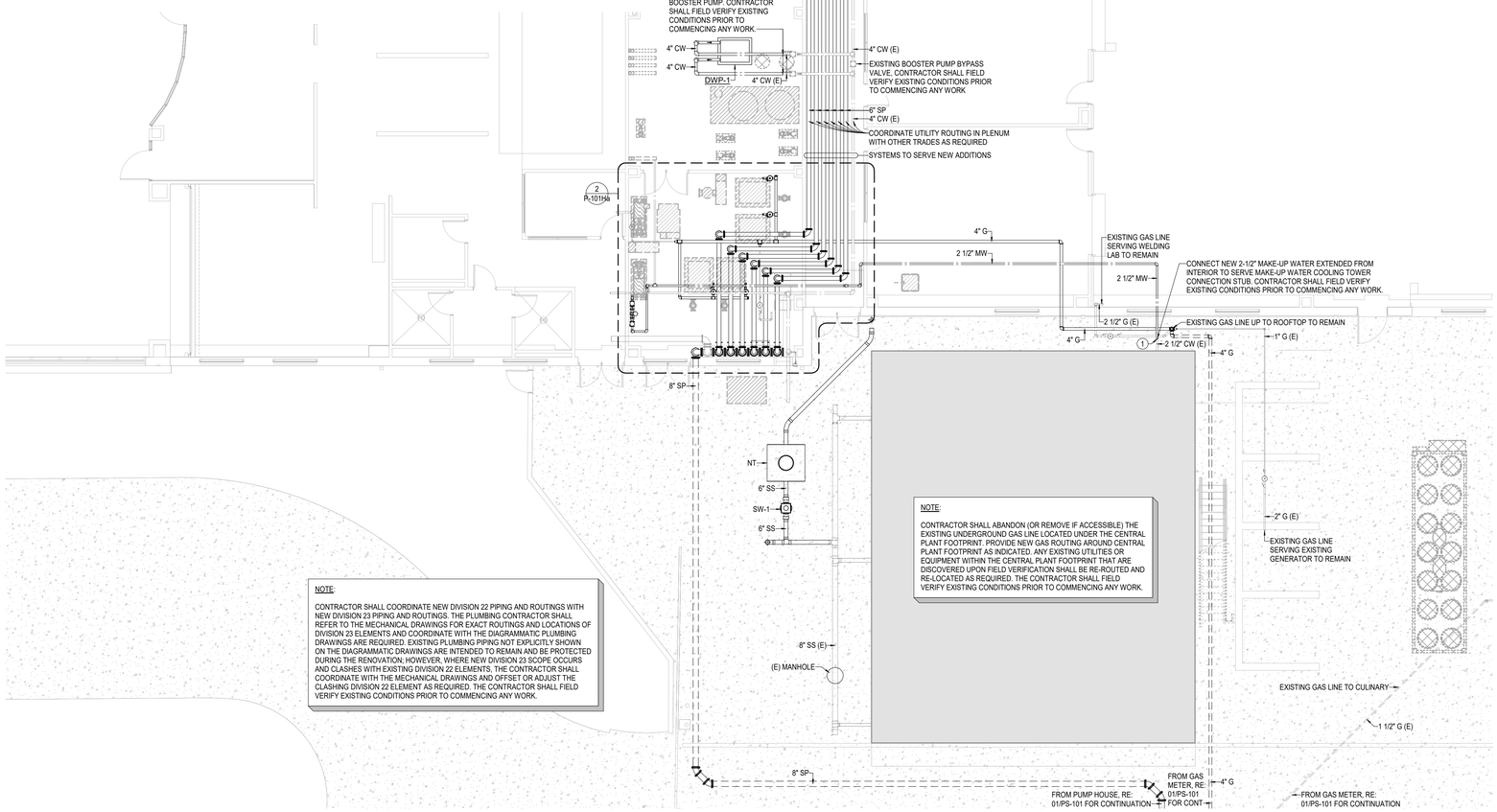
P-101GT

Plot Stamp:
12/3/2025 1:42:50 PM

1ST FLOOR PLUMBING PLAN - AREA H CTE
P-101Ha
FOR BLUEBEAM LABELING/OCR:



2 ENLARGED PLAN - 1ST FLOOR PLUMBING PLAN - AREA Ha CTE
3/8" = 1'-0"



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KEYNOTES - PLUMBING PLAN

1 CONNECT NEW WATER LINE TO EXISTING.

2 NEW DEDICATED WET FIRE SPRINKLER SYSTEM TO SPRINKLER ZONE.

3 INCOMING 4" COLD WATER ENTRY.

4 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL WATER FLOW METER AT INCOMING COLD WATER MAIN ENTRY AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

5 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL WATER FLOW METER AT COOLING TOWER COLD WATER MAKE-UP AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

6 2-1/2" COLD WATER DOWN TO SERVE RPZ BACKFLOW PREVENTER, PROVIDE HOSE BIBB (HB-3) W/ SHUT-OFF VALVE DOWNSTREAM OF BACKFLOW PREVENTER. EXTEND 2-1/2" MAKE-UP WATER TO SERVE MECHANICAL EQUIPMENT.

7 INCOMING 8" FIRE LINE ENTRY.

8 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE. VENT REGULATOR TO THE EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

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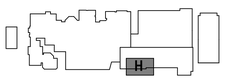
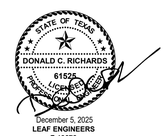


KEY PLAN
NORTH: PLAN = TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	PACKAGE 3C - ADD 01	8/12/2025
2	PACKAGE 3C - ADD 02	8/18/2025

CHECKED BY: SC
DRAWN BY: SC

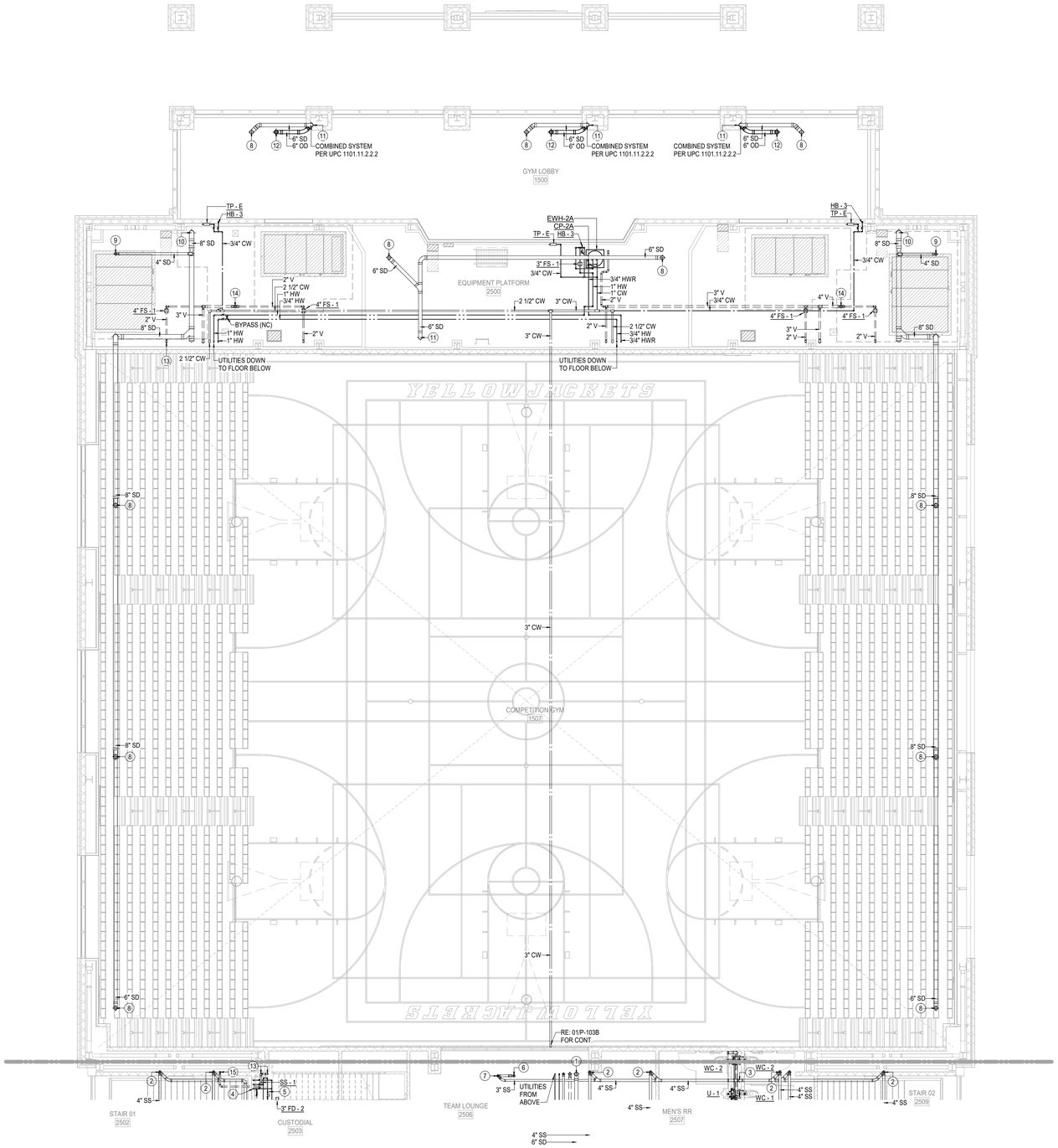
1ST FLOOR PLUMBING PLAN - AREA H CTE

P-101Ha

Plot Stamp:
12/3/2025 1:42:51 PM

2ND FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN
P-102A
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 2ND FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 6" STORM PIPE DOWN FROM ABOVE.

2 4" WASTE DOWN AND 2" VENT UP.

3 4" WASTE DOWN.

4 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

5 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

6 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

7 3" WASTE DOWN AND 2" VENT UP.

8 6" STORM PIPE DOWN FROM ROOF DRAIN.

9 4" STORM PIPE DOWN FROM ROOF DRAIN.

10 8" STORM PIPE DOWN.

11 6" STORM PIPE DOWN.

12 6" STORM PIPE DOWN FROM OVERFLOW DRAIN.

13 2" VENT UP FROM BELOW.

14 4" VENT THRU ROOF.

15 2" VENT UP.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

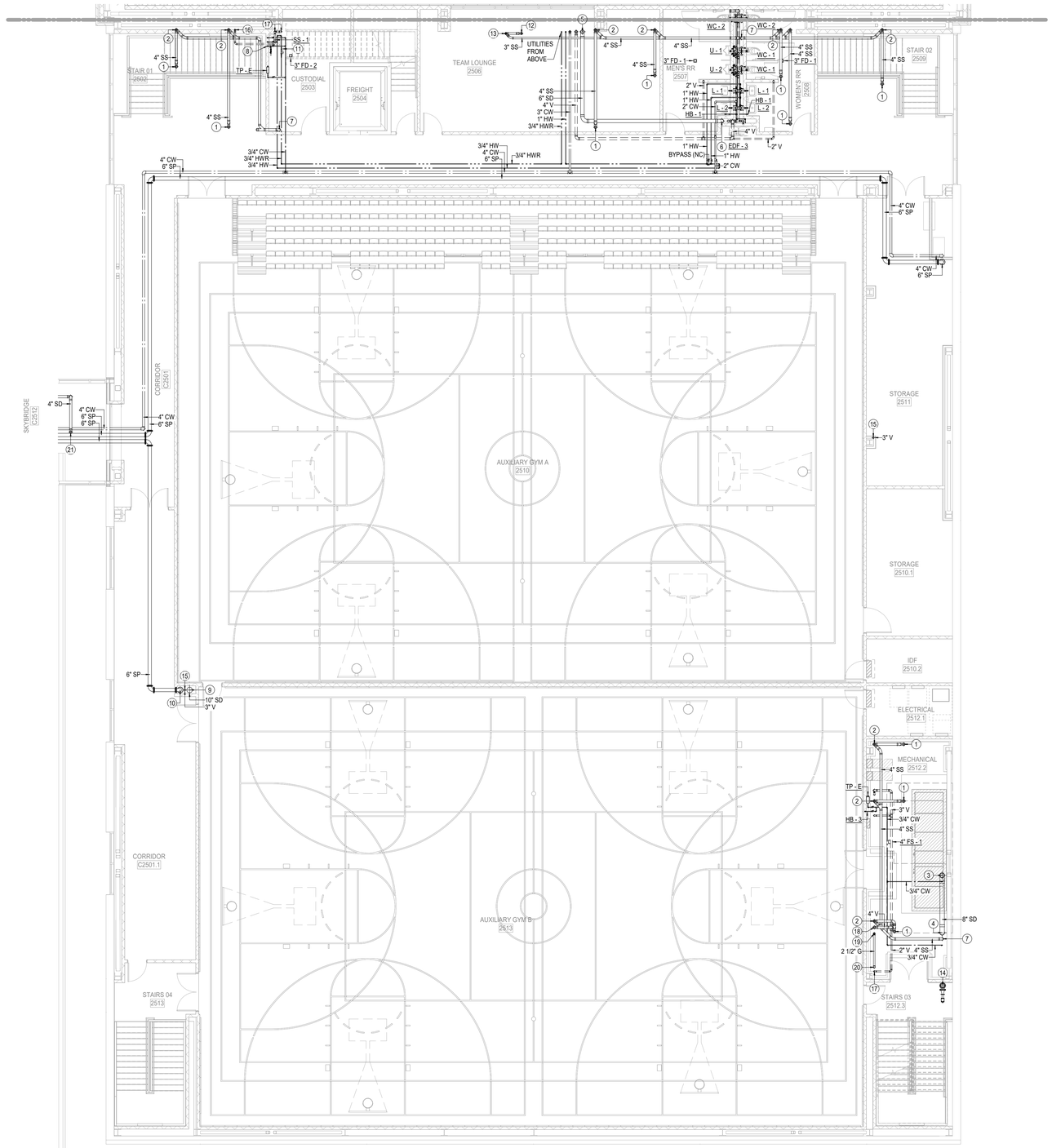
2ND FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN

P-102A

Plot Stamp:
12/1/2025 8:27:41 PM

0"
1"

2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-102B
FOR BLUEBEAM LABELING/OCR:



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

2 4" WASTE DOWN AND 2" VENT UP.

3 8" STORM PIPE DOWN FROM ABOVE.

4 8" STORM PIPE DOWN.

5 6" STORM PIPE DOWN FROM ABOVE.

6 6" STORM PIPE DOWN.

7 4" WASTE DOWN.

8 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

9 10" STORM PIPE DOWN FROM ABOVE.

10 6" FIRE LINE DOWN.

11 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

12 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

13 3" WASTE DOWN AND 2" VENT UP.

14 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

15 3" VENT UP.

16 2" VENT UP.

17 2" VENT UP FROM BELOW.

18 4" VENT UP.

19 2-1/2" GAS UP.

20 2-1/2" GAS DOWN.

21 4" STORM PIPE DOWN FROM ROOF DRAIN.

1 2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL 12/5/2025

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61524
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN

P-102B

Plot Stamp:
12/1/2025 8:27:46 PM

0"
1"

2ND FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102C

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 4" STORM PIPE DOWN FROM ROOF DRAIN.

2 6" STORM PIPE DOWN FROM ROOF DRAIN.

3 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

4 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS), PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

5 10" STORM PIPE DOWN FROM ABOVE.

6 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

7 3" WASTE DOWN.

8 3" WASTE DOWN AND 2" VENT UP.

9 2" WASTE DOWN.

10 2" WASTE DOWN FROM ABOVE.

11 8" STORM PIPE DOWN FROM ABOVE.

12 4" VENT UP.

KEYNOTES - PLUMBING PLAN

13 3" VENT UP.

14 4" WASTE DOWN FROM ABOVE.

15 3" WASTE DOWN FROM ABOVE.

16 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

17 2" VENT UP.

18 2" VENT UP FROM BELOW.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

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G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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GENERAL NOTES - PLUMBING PLAN

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

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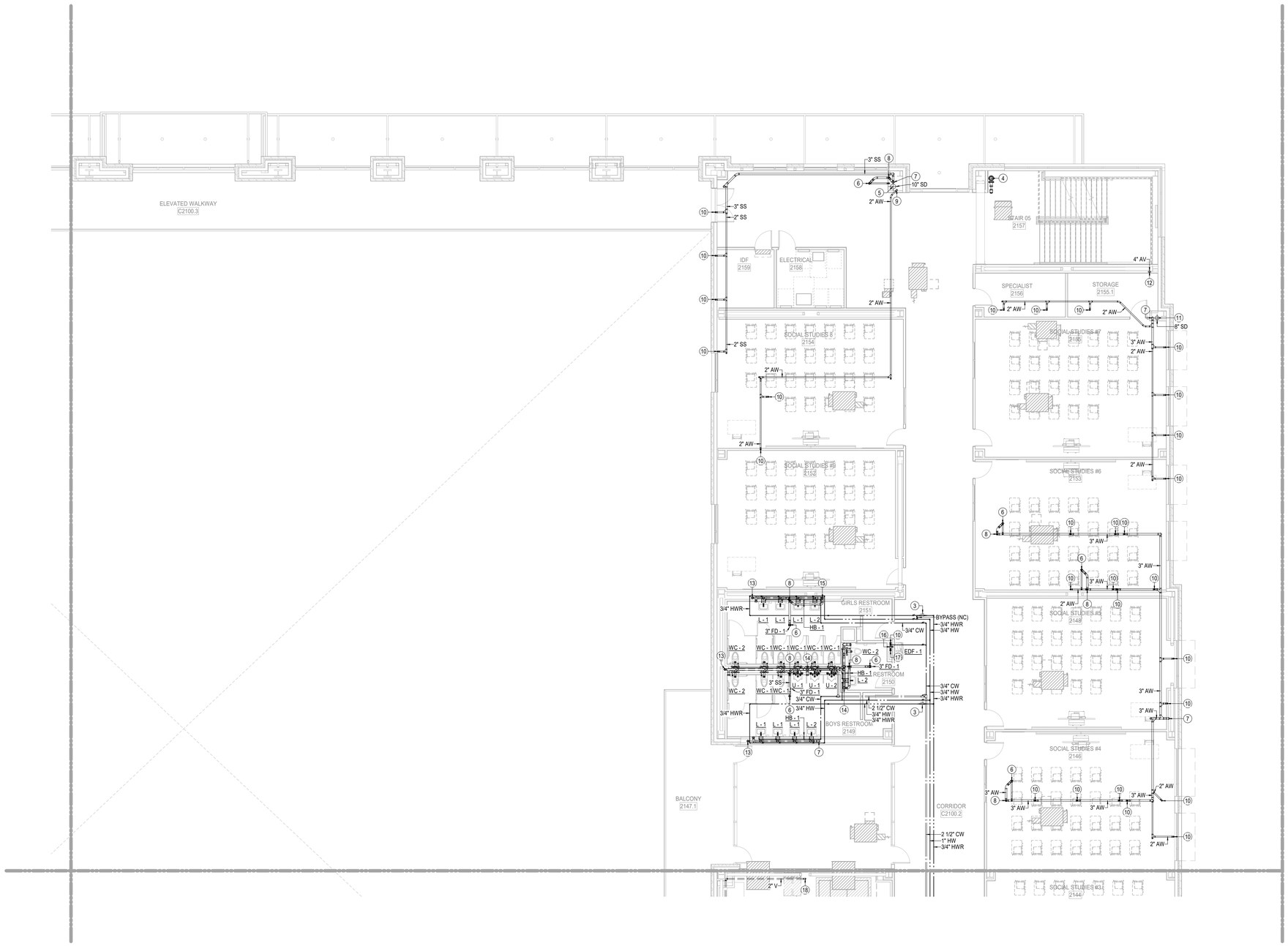
P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 2ND FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:27:52 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102C

0"
1"

FOR BLUEBEAM LABELING/OCR:

2ND FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102D

KEYNOTES - PLUMBING PLAN

1 6" STORM PIPE DOWN FROM ROOF DRAIN.

2 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

3 2" WASTE DOWN FROM ABOVE.

4 6" STORM PIPE DOWN FROM OVERFLOW DRAIN.

5 8" STORM PIPE DOWN.

6 4" WASTE DOWN FROM ABOVE.

7 4" WASTE DOWN.

8 3" WASTE DOWN.

9 10" STORM PIPE DOWN FROM ABOVE.

10 4" STORM PIPE DOWN FROM OVERFLOW DRAIN.

11 4" STORM PIPE DOWN FROM ROOF DRAIN.

12 2-1/2" GAS UP.

KEYNOTES - PLUMBING PLAN

13 4" STORM PIPE DOWN.

14 10" STORM PIPE DOWN.

15 6" STORM PIPE DOWN FROM ABOVE.

16 3" WASTE DOWN AND 2' VENT UP.

17 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

18 2" VENT UP.

19 4" WASTE DOWN AND 2' VENT UP.

20 2" VENT UP FROM BELOW.

21 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

22 3" VENT UP.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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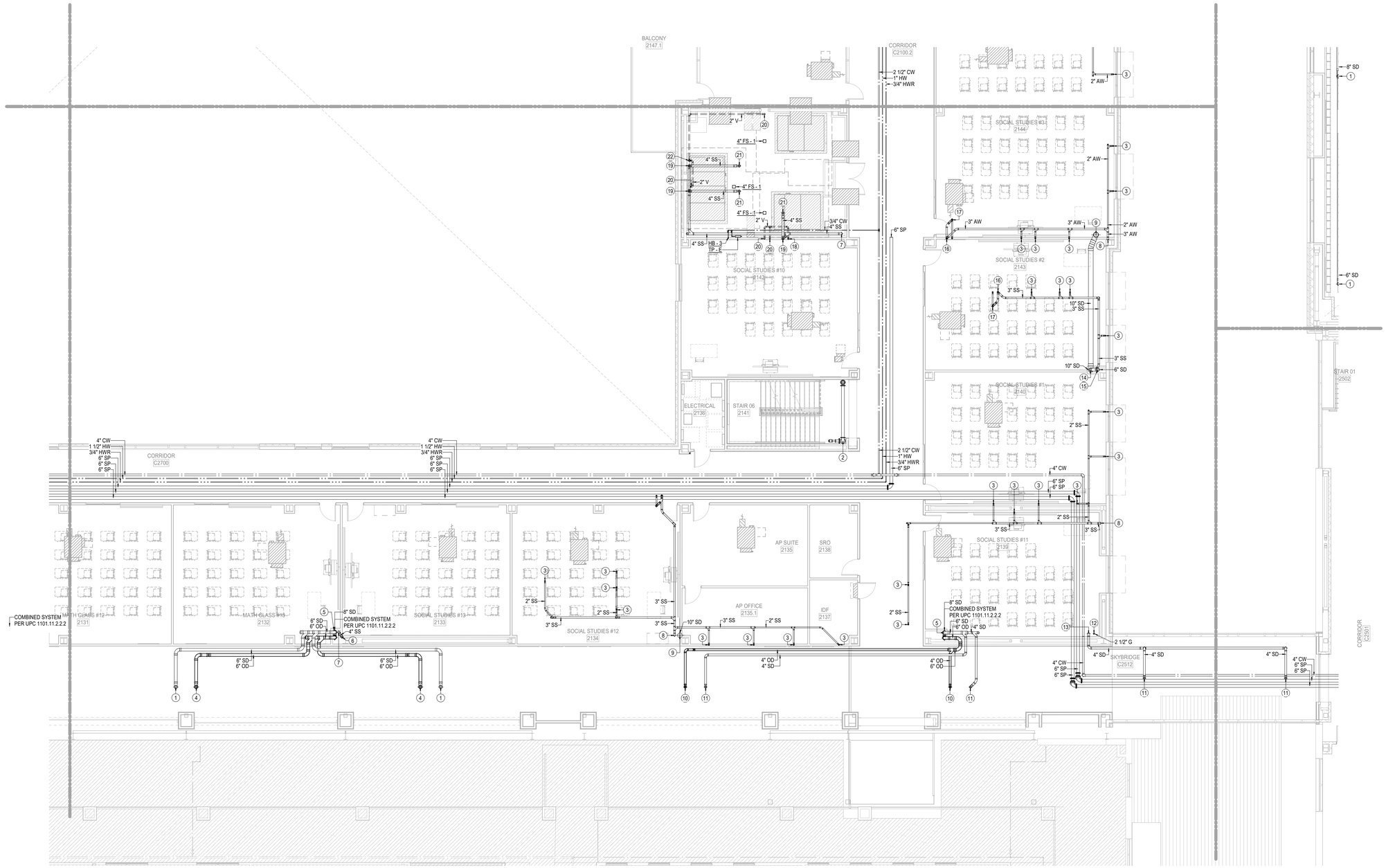

1 2ND FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
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ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC

DRAWN BY: SC

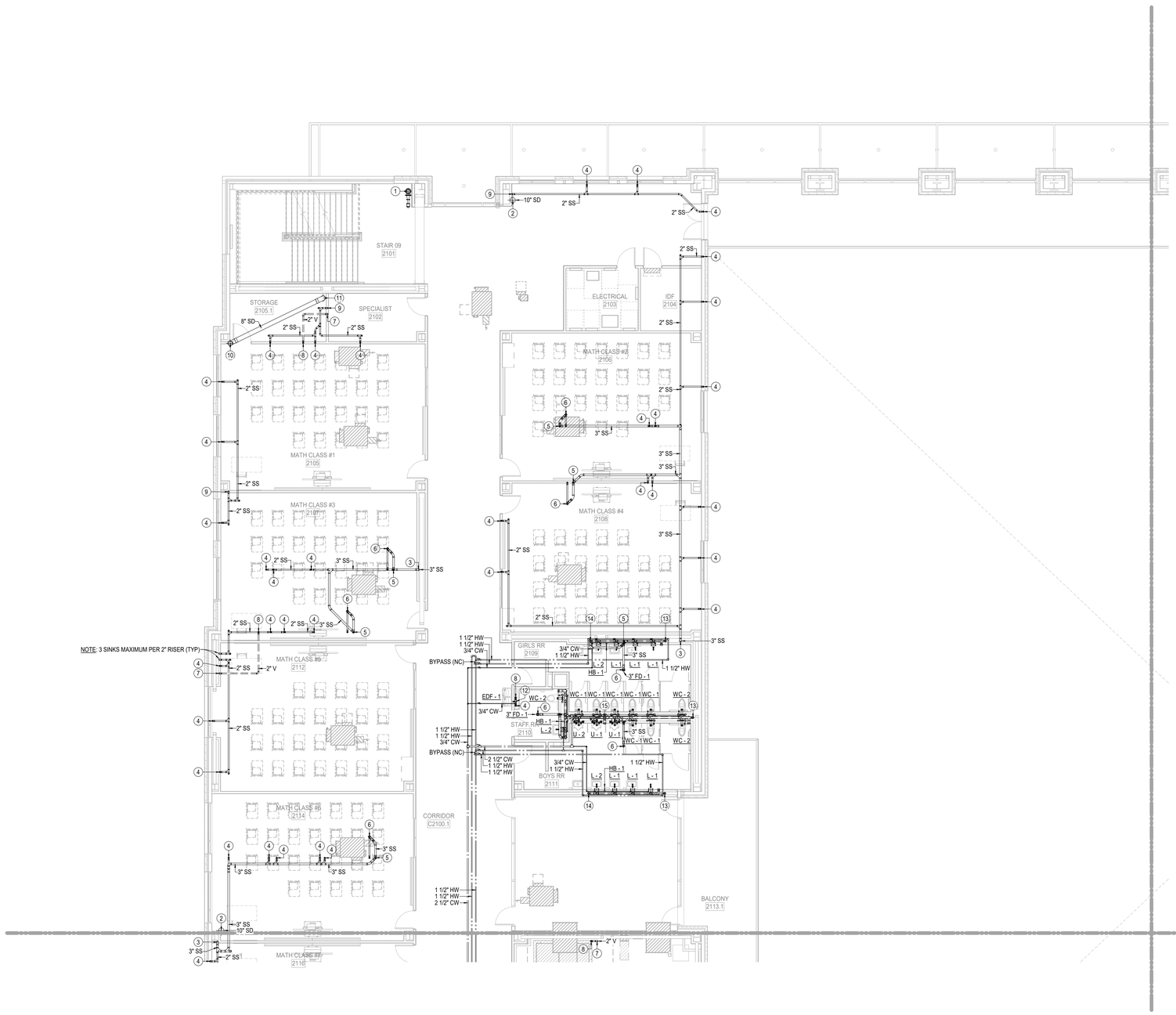
2ND FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102D

0"
1"

2ND FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-102E

FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 10" STORM PIPE DOWN FROM ABOVE.

3 3" WASTE DOWN.

4 2" WASTE DOWN FROM ABOVE.

5 3" WASTE DOWN AND 2" VENT UP.

6 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

7 2" VENT UP FROM BELOW.

8 2" VENT UP.

9 2" WASTE DOWN.

10 8" STORM PIPE DOWN FROM ABOVE.

11 8" STORM PIPE DOWN.

12 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

13 3" VENT UP.

14 3" WASTE DOWN FROM ABOVE.

15 4" WASTE DOWN FROM ABOVE.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE ALL FOR ALL

A

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102E

Plot Stamp:
12/1/2025 8:28:04 PM

0"
1"

2ND FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN-P-102F

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS), PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 10" STORM PIPE DOWN FROM ABOVE.

3 3" WASTE DOWN.

4 2" WASTE DOWN FROM ABOVE.

5 2" VENT UP.

6 2" VENT UP FROM BELOW.

7 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

8 4" WASTE DOWN AND 2" VENT UP.

9 6" FIRE LINE UP.

10 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

11 3" WASTE DOWN AND 2" VENT UP.

KEYNOTES - PLUMBING PLAN

12 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

13 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

14 6" STORM PIPE DOWN FROM ROOF DRAIN.

15 6" STORM PIPE DOWN FROM OVERFLOW DRAIN.

16 10" STORM PIPE DOWN.

17 3" VENT THRU ROOF.

18 6" STORM PIPE DOWN FROM ABOVE.

19 6" STORM PIPE DOWN.

20 4" STORM PIPE DOWN FROM ROOF DRAIN.

21 4" STORM PIPE DOWN FROM OVERFLOW DRAIN.

22 8" STORM PIPE DOWN.

23 4" WASTE DOWN FROM ABOVE.

KEYNOTES - PLUMBING PLAN

24 12" STORM PIPE DOWN.

25 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

26 4" WASTE DOWN.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

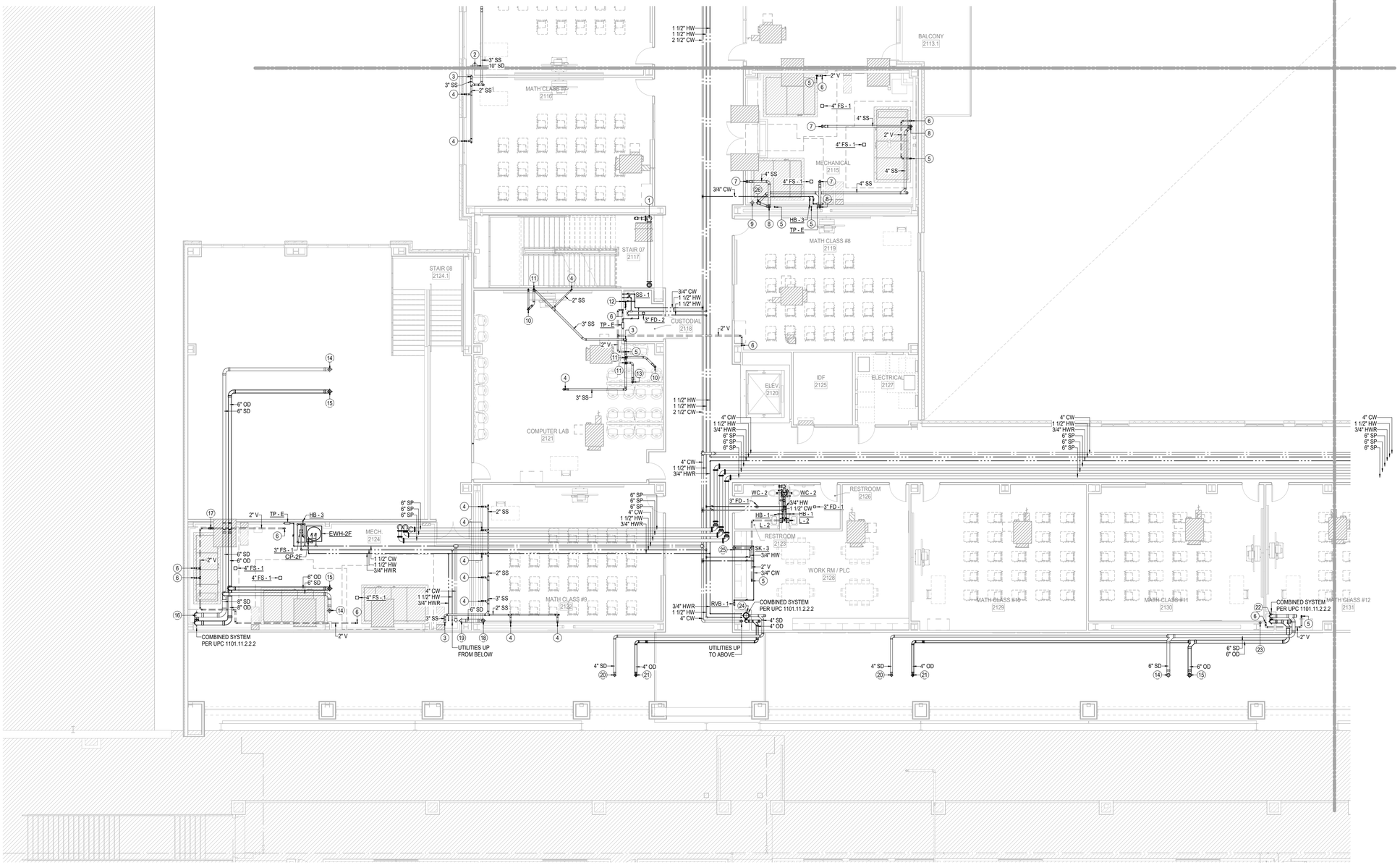
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 2ND FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:28:09 PM

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LEAF ENGINEERS

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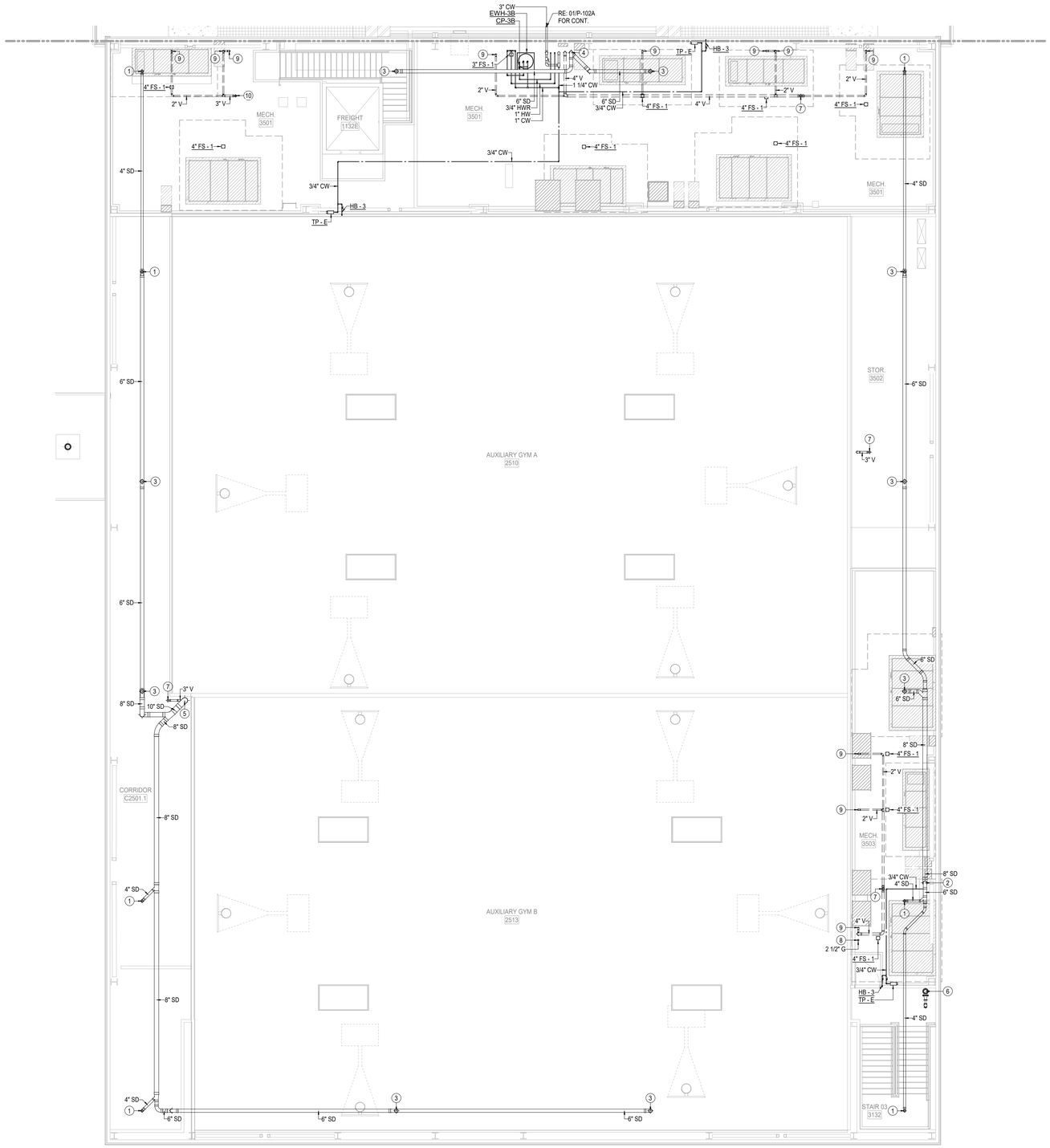
2ND FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102F

0"
1"

3RD FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-103B
FOR BLUEBEAM LABELING/OCR:



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 4" STORM PIPE DOWN FROM ROOF DRAIN.

2 8" STORM PIPE DOWN.

3 6" STORM PIPE DOWN FROM ROOF DRAIN.

4 6" STORM PIPE DOWN.

5 10" STORM PIPE DOWN.

6 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL. A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

7 4" VENT THRU ROOF.

8 2-1/2" GAS UP.

9 2" VENT UP FROM BELOW.

10 3" VENT THRU ROOF.

1 3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLANN
1/8" = 1'-0"

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F-18672

CLIENT	
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December 5, 2025	240539

DRAWING HISTORY

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CHECKED BY: SC
DRAWN BY: SC

3RD FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN

P-103B

Plot Stamp:
12/1/2025 8:28:11 PM

0"
1"

FOR BLUEBEAM LABELING/OCR:

3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103C

KEYNOTES - PLUMBING PLAN

1 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

2 1" HOT AND COLD WATER DOWN TO SERVE THERMOSTATIC MIXING VALVE (PROVIDE AND INSTALL CONCEALED ABOVE CEILING). EXTEND TEMPERED WATER TO SERVE EMERGENCY FIXTURE; LOCATE FLOOR DRAIN CENTERED DIRECTLY UNDER SHOWER HEAD, ROUTE EYEWASH WASTE AS INDICATED (TIE-IN TO FLOOR DRAIN WASTE UPSTREAM OF P-TRAP), AND CONNECT EMERGENCY FIXTURE UTILITIES PER MANUFACTURER REQUIREMENTS.

3 1" HOT AND COLD WATER DOWN, 3/4" GAS (7"-1/4" W.C. OR AS REQ'D) DOWN TO SERVE UTILITY VALVE BOX (RECESSED, FLUSH W/ WALL ENCLOSURE). UTILITIES SHALL BE INTERCONNECTED THRU THE EMERGENCY SHUT-OFF SYSTEM. REFER TO DIVISION 26 FOR ADDITIONAL INFORMATION.

4 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS), PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

5 10" STORM PIPE DOWN FROM ROOF DRAIN.

6 10" STORM PIPE DOWN.

7 4" STORM PIPE DOWN FROM ROOF DRAIN.

8 3" VENT THRU ROOF.

KEYNOTES - PLUMBING PLAN

9 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

10 2" WASTE DOWN AND 2" VENT UP FROM LAB FIXTURE(S), 3/4" HOT AND COLD WATER DOWN, 3/4" GAS DOWN TO SERVE LAB FIXTURE(S).

11 3/4" GAS UP.

12 8" STORM PIPE DOWN.

13 4" VENT THRU ROOF.

14 2" WASTE DOWN AND 2" VENT UP FROM FUME HOOD(S) BY OTHERS, 3/4" HOT AND COLD WATER DOWN, 3/4" GAS DOWN TO SERVE FUME HOOD(S) BY OTHERS. PROVIDE AND INSTALL WATTS "289" SPILL-RESISTANT ATMOSPHERIC VACUUM BREAKER CONCEALED ABOVE CEILING. PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE CONCEALED ABOVE CEILING IF NOT PROVIDED BY THE FUME HOOD MANUFACTURER AND INTEGRAL TO THE UNIT SPECIFIED BY OTHERS.

15 6" STORM PIPE DOWN FROM ROOF DRAIN.

16 8" STORM PIPE DOWN FROM ROOF DRAIN.

17 3" WASTE DOWN.

18 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

KEYNOTES - PLUMBING PLAN

19 2" WASTE DOWN.

20 4" WASTE DOWN.

21 2" VENT UP FROM BELOW.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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GENERAL NOTES - PLUMBING PLAN

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K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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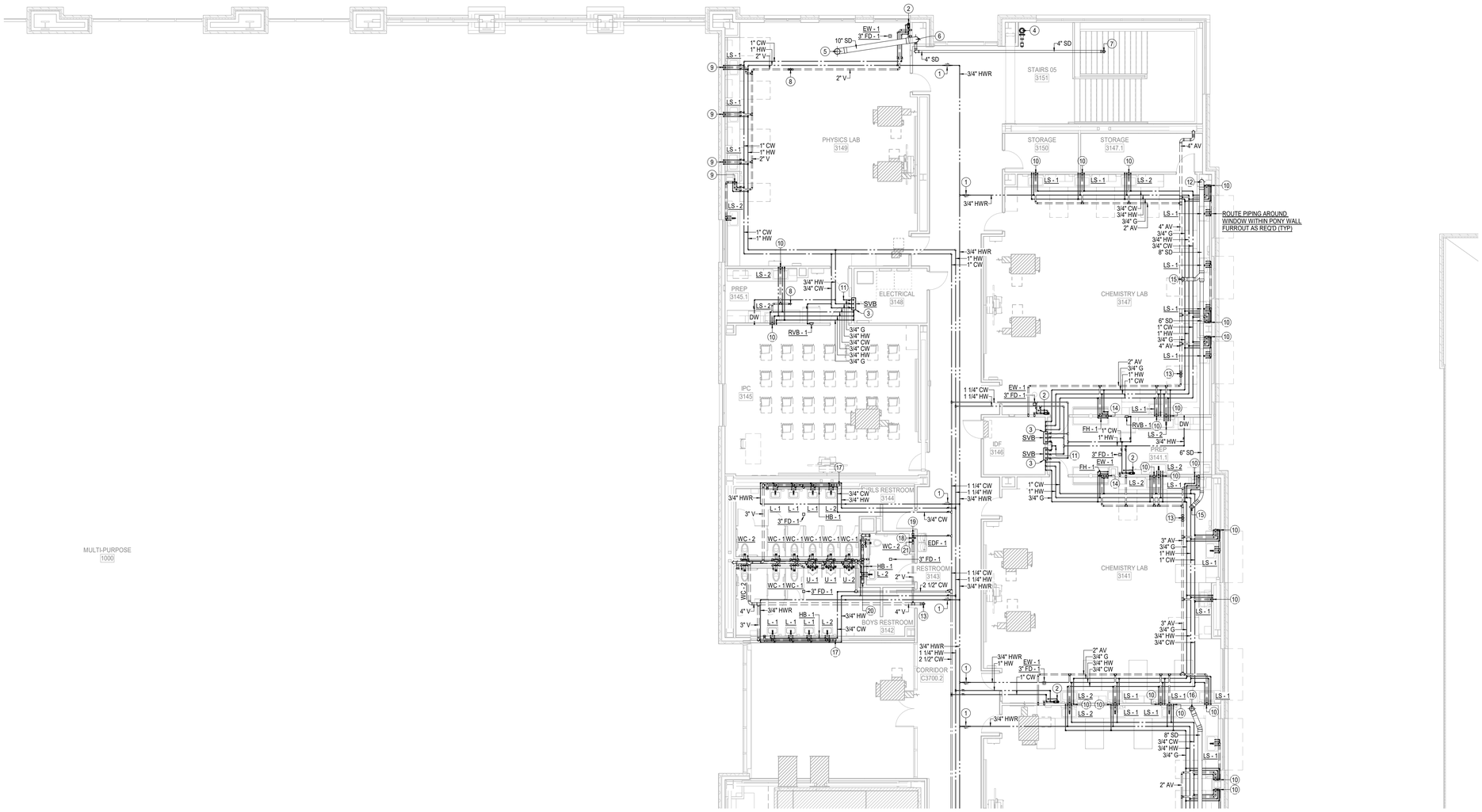
O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/1/2025 8:28:16 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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DONALD C. RICHARDS
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December 5, 2025	240539

DRAWING HISTORY

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DRAWN BY: SC

3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103C

0"
1"

FOR BLUEBEAM LABELING/OCR:

3RD FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-103D

KEYNOTES - PLUMBING PLAN

1 1" HOT AND COLD WATER DOWN, 3/4" GAS (7"-1/4" W.C. OR AS REQ'D) DOWN TO SERVE UTILITY VALVE BOX (RECESSED, FLUSH W/ WALL ENCLOSURE). UTILITIES SHALL BE INTERCONNECTED THRU THE EMERGENCY SHUT-OFF SYSTEM. REFER TO DIVISION 26 FOR ADDITIONAL INFORMATION.

2 1" HOT AND COLD WATER DOWN TO SERVE THERMOSTATIC MIXING VALVE (PROVIDE AND INSTALL CONCEALED ABOVE CEILING). EXTEND TEMPERED WATER TO SERVE EMERGENCY FIXTURE; LOCATE FLOOR DRAIN CENTERED DIRECTLY UNDER SHOWER HEAD. ROUTE EYEWASH WASTE AS INDICATED (TIE-IN TO FLOOR DRAIN WASTE UPSTREAM OF P-TRAP), AND CONNECT EMERGENCY FIXTURE UTILITIES PER MANUFACTURER REQUIREMENTS.

3 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

4 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS), PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

5 2" WASTE DOWN AND 2" VENT UP FROM LAB FIXTURE(S), 3/4" HOT AND COLD WATER DOWN, 3/4" GAS DOWN TO SERVE LAB FIXTURE(S).

6 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

7 4" WASTE DOWN AND 2" VENT UP.

8 4" WASTE DOWN.

KEYNOTES - PLUMBING PLAN

9 3/4" COLD WATER UP.

10 3" VENT UP.

11 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

12 10" STORM PIPE DOWN.

13 4" STORM PIPE DOWN FROM ROOF DRAIN.

14 10" STORM PIPE DOWN FROM ROOF DRAIN.

15 2-1/2" GAS UP.

16 6" STORM PIPE DOWN FROM ROOF DRAIN.

17 6" STORM PIPE DOWN.

18 4" VENT THRU ROOF.

19 3" VENT THRU ROOF.

20 2" VENT UP FROM BELOW.

KEYNOTES - PLUMBING PLAN

21 2" WASTE DOWN AND 2" VENT UP FROM FUME HOOD(S) BY OTHERS, 3/4" HOT AND COLD WATER DOWN, 3/4" GAS DOWN TO SERVE FUME HOOD(S) BY OTHERS. PROVIDE AND INSTALL WATTS "268" SPILL-RESISTANT ATMOSPHERIC VACUUM BREAKER CONCEALED ABOVE CEILING. PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE CONCEALED ABOVE CEILING IF NOT PROVIDED BY THE FUME HOOD MANUFACTURER AND INTEGRAL TO THE UNIT SPECIFIED BY OTHERS.

22 3/4" GAS UP.

GENERAL NOTES - PLUMBING PLAN

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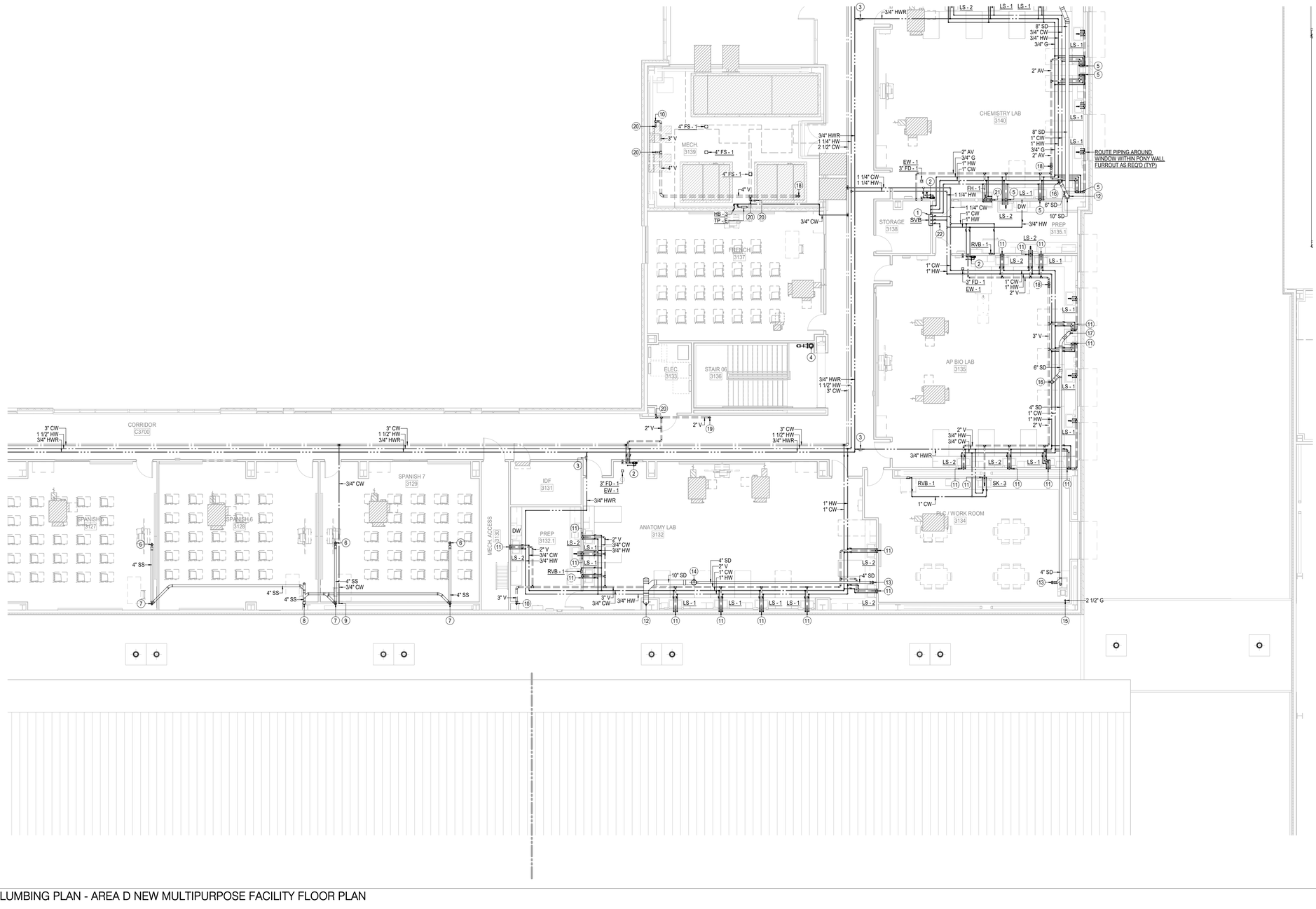

1 3RD FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
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DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

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DRAWN BY: SC

3RD FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

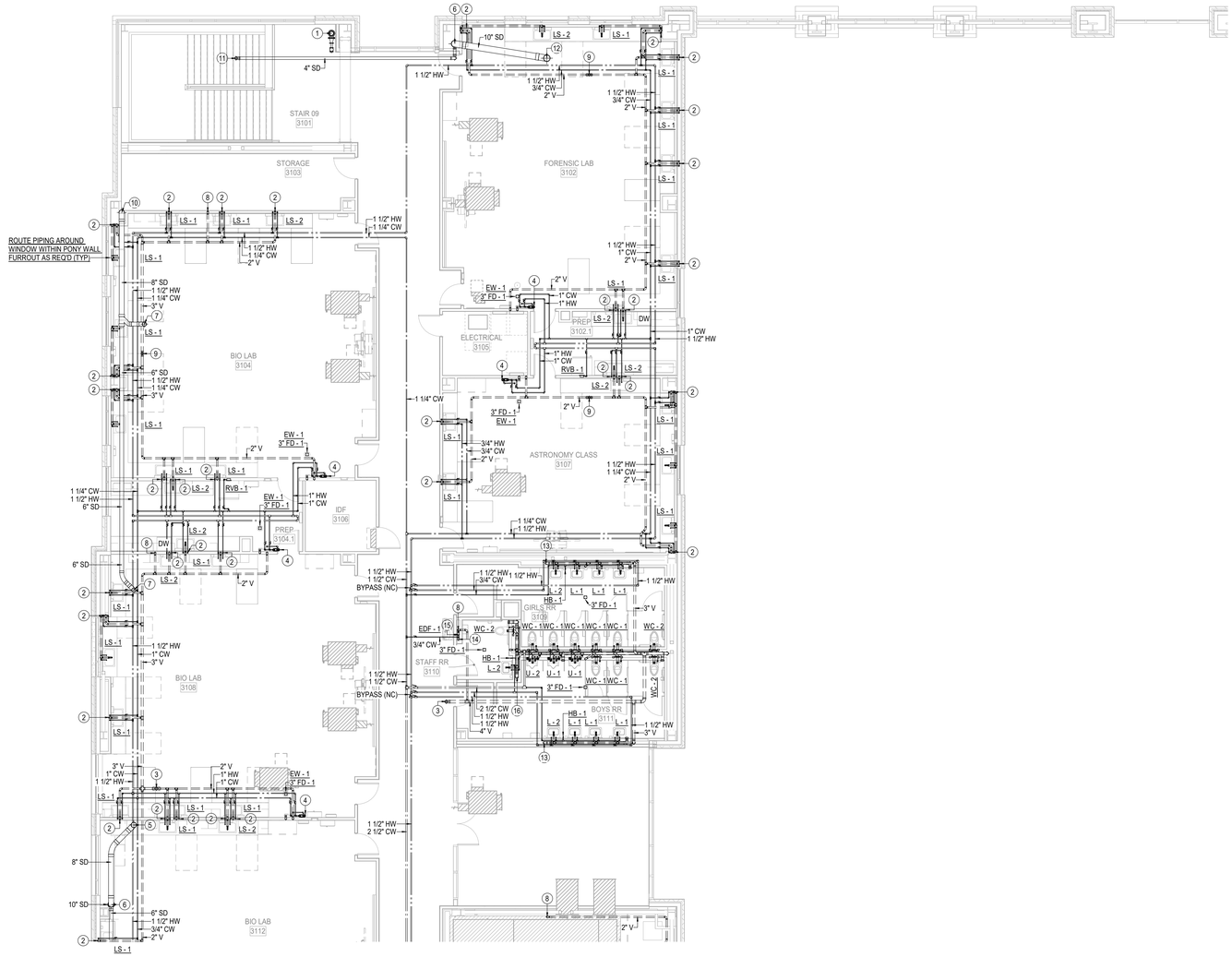
P-103D

0"
1"

3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103E

FOR BLUEBEAM LABELING/OCR:



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D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

3 4" VENT THRU ROOF.

4 1" HOT AND COLD WATER DOWN TO SERVE THERMOSTATIC MIXING VALVE (PROVIDE AND INSTALL CONCEALED ABOVE CEILING). EXTEND TEMPERED WATER TO SERVE EMERGENCY FIXTURE, LOCATE FLOOR DRAIN CENTERED DIRECTLY UNDER SHOWER HEAD, ROUTE EYEWASH WASTE AS INDICATED (TIE-IN TO FLOOR DRAIN WASTE UPSTREAM OF P-TRAP), AND CONNECT EMERGENCY FIXTURE UTILITIES PER MANUFACTURER REQUIREMENTS.

5 8" STORM PIPE DOWN FROM ABOVE.

6 10" STORM PIPE DOWN.

7 6" STORM PIPE DOWN FROM ROOF DRAIN.

8 2" VENT UP FROM BELOW.

9 3" VENT THRU ROOF.

10 8" STORM PIPE DOWN.

11 4" STORM PIPE DOWN FROM ROOF DRAIN.

12 10" STORM PIPE DOWN FROM ABOVE.

13 3" WASTE DOWN.

14 2" WASTE DOWN.

15 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

16 4" WASTE DOWN.

1 3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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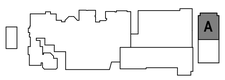

KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
Galena Park ISD

DATE
December 5, 2025

PROJECT NUMBER
240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: SC

3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103E

0"
1"

FOR BLUEBEAM LABELING/OCR:
P-103F
3RD FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

3 10" STORM PIPE DOWN.

4 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

5 6" STORM PIPE DOWN FROM ROOF DRAIN.

6 4" VENT THRU ROOF.

7 2" VENT UP FROM BELOW.

8 6" FIRE LINE UP.

9 3" VENT THRU ROOF.

KEYNOTES - PLUMBING PLAN

10 1" HOT AND COLD WATER DOWN TO SERVE THERMOSTATIC MIXING VALVE (PROVIDE AND INSTALL CONCEALED ABOVE CEILING). EXTEND TEMPERED WATER TO SERVE EMERGENCY FIXTURE. LOCATE FLOOR DRAIN CENTERED DIRECTLY UNDER SHOWER HEAD. ROUTE EYEWASH WASTE AS INDICATED (TIE-IN TO FLOOR DRAIN WASTE UPSTREAM OF P-TRAP), AND CONNECT EMERGENCY FIXTURE UTILITIES PER MANUFACTURER REQUIREMENTS.

11 6" STORM PIPE DOWN.

12 4" STORM PIPE DOWN FROM ROOF DRAIN.

13 10" STORM PIPE DOWN FROM ROOF DRAIN.

14 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

15 4" WASTE DOWN.

16 3/4" COLD WATER UP.

17 4" WASTE DOWN AND 2" VENT UP.

18 2" VENT UP.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

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GENERAL NOTES - PLUMBING PLAN

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O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

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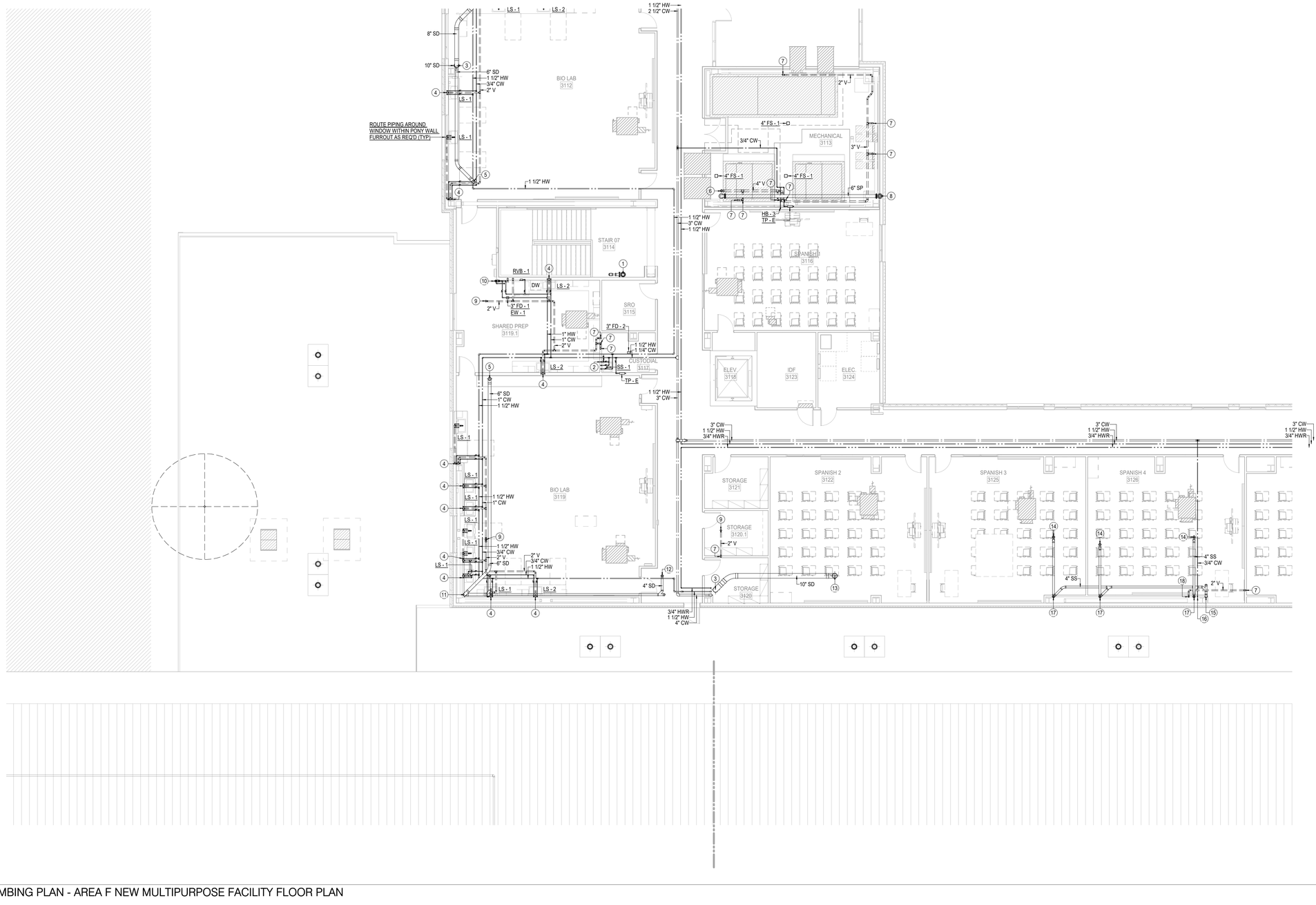

1 3RD FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

3RD FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103F

0"
1"

MEZZANINE PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-104D

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 4" VENT THRU ROOF.

2 2" VENT UP FROM BELOW.

3 3" VENT UP.

GENERAL NOTES - PLUMBING PLAN

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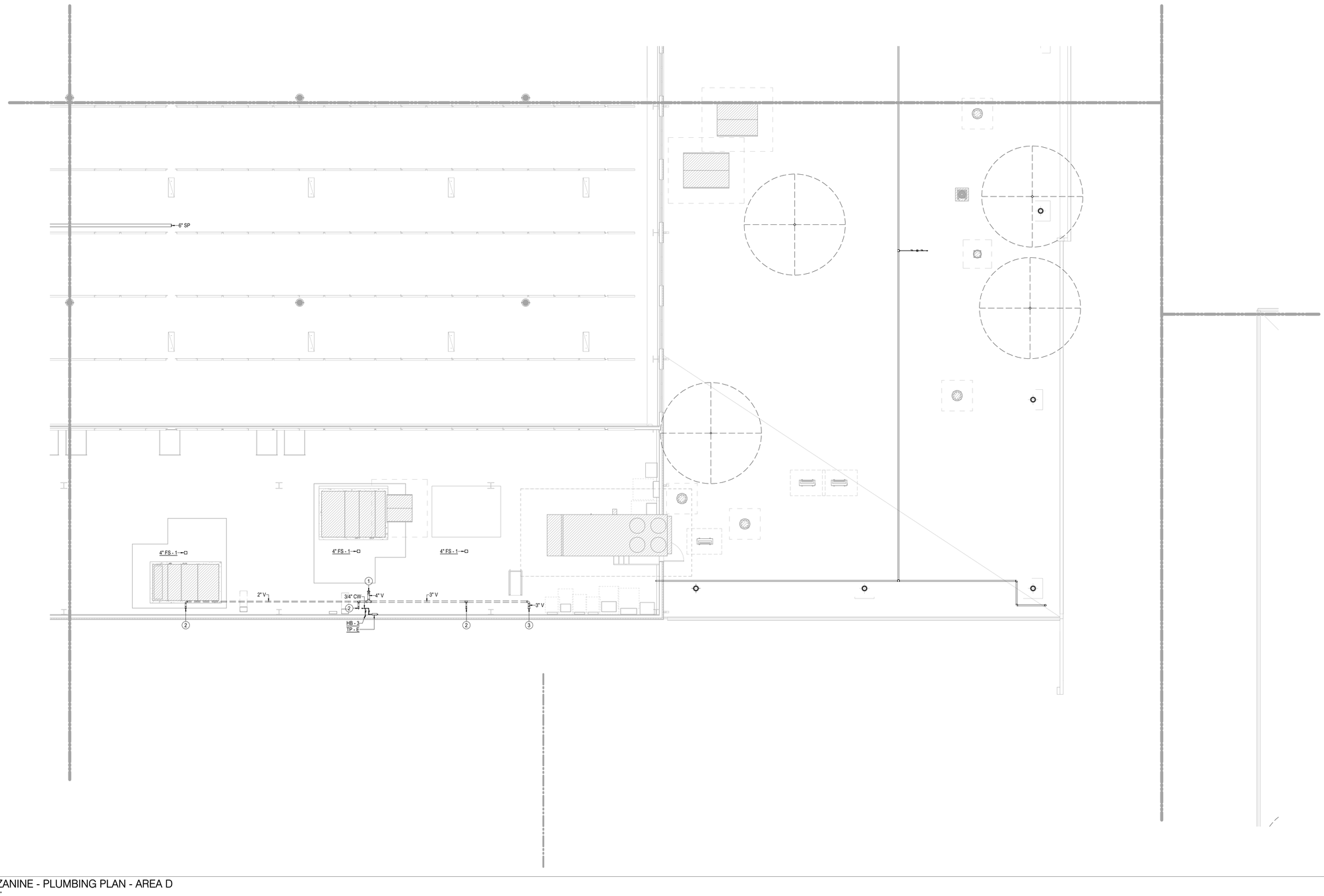

1 MEZZANINE - PLUMBING PLAN - AREA D
1/8" = 1'-0"

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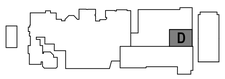
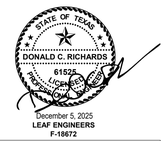


KEY PLAN
NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

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Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: SC

MEZZANINE PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-104D

0"
1"

MEZZANINE PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-104F
FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 4" VENT THRU ROOF.

2 2" VENT UP FROM BELOW.

3 6" FIRE LINE UP FROM BELOW.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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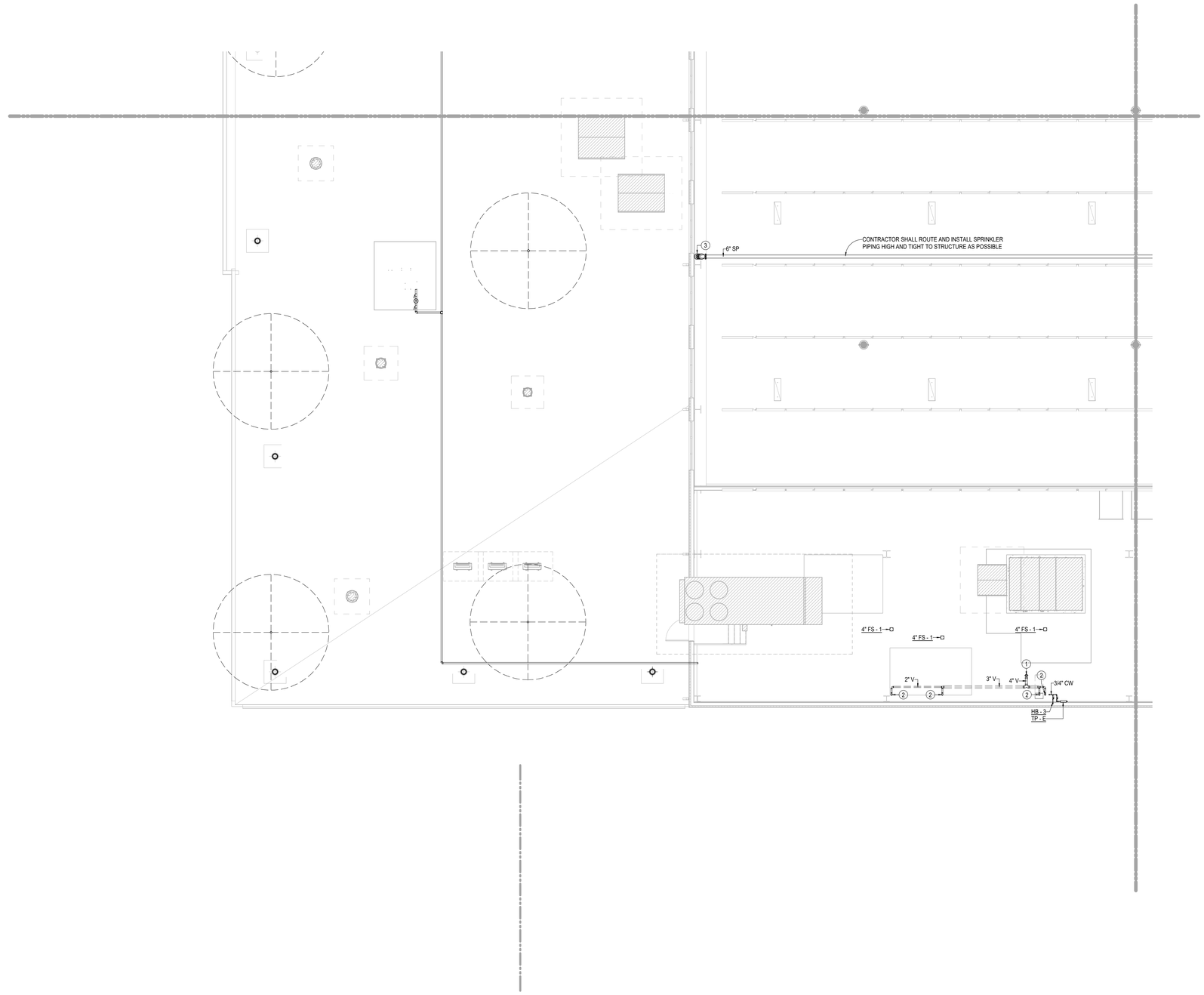

1 MEZZANINE - PLUMBING PLAN - AREA F
1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
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DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

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MEZZANINE PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-104F

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0"
1"

FOR BLUEBEAM LABELING/OCR:
P-301
FLOOR PLAN
PLUMBING ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL

KEYNOTES - PLUMBING PLAN

1 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE. VENT REGULATOR TO THE EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

2 3/4" GAS DOWN.

3 2-1/2" GAS DOWN.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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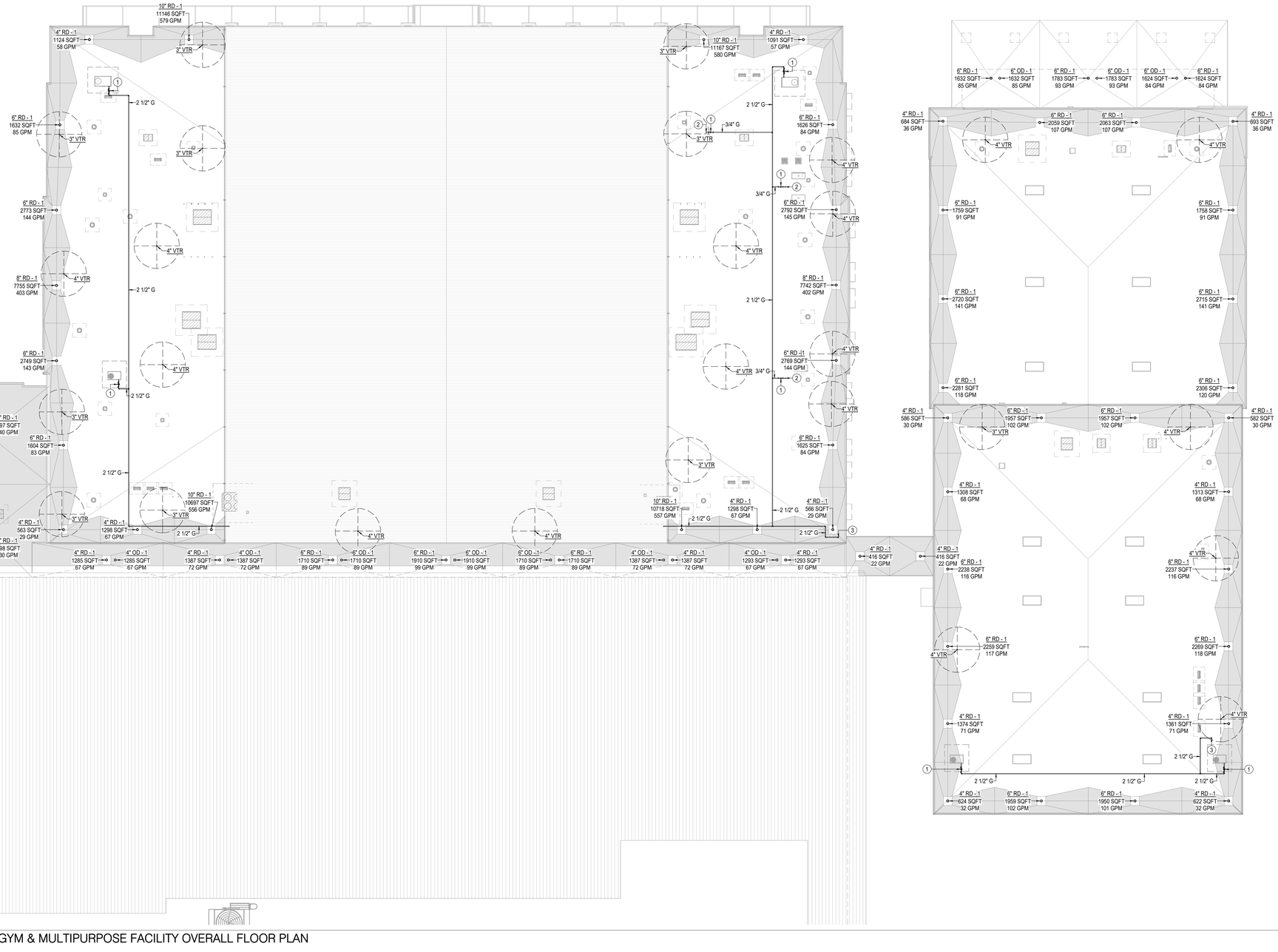

1 PLUMBING ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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Galena Park, TX 77547

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F D B
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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

PLUMBING ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

P-301

0"
1"

PLUMBING SCHEDULES
P-501
FOR BLUEBEAM LABELING/DOCR:

GAS WATER HEATER SCHEDULE

UNIT	MANUFACTURER AND MODEL NUMBER	LOCATION	CAPACITY (GAL)	RECOVERY (GPH)	TEMP RISE (°F)	INPUT (BTU)	REMARKS
GWH-1B	AO SMITH BTH-199	PUMP ROOM 1544	100	235	100	199,000	• PROVIDE WITH THERM-X-TROL ST-30V-C EXPANSION TANK • PROVIDE WITH CONDENSATE NEUTRALIZER KIT • PROVIDE WITH CONCENTRIC VENT KIT

NOTES:

1. COORDINATE WITH WATER HEATER MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL EQUIPMENT AND APPURTENANCES.

ELECTRIC WATER HEATER SCHEDULE

UNIT	MANUFACTURER AND MODEL NUMBER	LOCATION	CAPACITY (GAL)	RECOVERY (GPH)	TEMP RISE (°F)	ELECTRICAL				REMARKS
						kW	V	Φ	Hz	
EWH-2A	AO SMITH DSE-20A	EQUIPMENT PLATFORM 2500	20	37	100	9	480	3	60	• PROVIDE WITH THERM-X-TROL ST-5-C EXPANSION TANK
EWH-2F	AO SMITH DRE-120-18	MECH. 2124	119	74	100	18	480	3	60	• PROVIDE WITH THERM-X-TROL ST-5-C EXPANSION TANK
EWH-3B	AO SMITH DEL-15S	MECH. 3501	15	20	100	5	480	1	60	• PROVIDE WITH THERM-X-TROL ST-5-C EXPANSION TANK

NOTES:

1. COORDINATE WITH WATER HEATER MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL EQUIPMENT AND APPURTENANCES.

PUMP SCHEDULE

UNIT	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	INLET PRESSURE (PSI)	OUTLET PRESSURE (PSI)	RPM	CAPACITY		ELECTRICAL				REMARKS
							GPM	Ψ (FT)	HP	V	Φ	Hz	
CP-1B	BELL & GOSSETT NBF-8S/LW	PUMP ROOM 1544	INLINE CIRCULATOR	-	2.2	2800	1.5	5	1/20	120	1	60	-
CP-2A	BELL & GOSSETT NBF-8S/LW	EQUIPMENT PLATFORM 2500	INLINE CIRCULATOR	-	2.2	2800	1.5	5	1/20	120	1	60	-
CP-2F	BELL & GOSSETT NBF-8S/LW	MECH. 2124	INLINE CIRCULATOR	-	2.2	2800	1.5	5	1/20	120	1	60	-
CP-3B	BELL & GOSSETT NBF-8S/LW	MECH. 3501	INLINE CIRCULATOR	-	2.2	2800	1.5	5	1/20	120	1	60	-
DWP-1	BELL & GOSSETT (XYLEM) V3VGE6K0C1JCF	EXISTING MECHANICAL A119	VERTICAL MULTISTAGE	10	80	3600	267	185	3 (15)	460	3	60	• TRIPLEX BOOSTER • N+1 REDUNDANCY • RE: NOTES
FP-(E)	PENTAIR 5"-1823F, SN#20-2593680	EXISTING FIRE PUMP HOUSE	CENTRIFUGAL SPLITCASE	STORAGE TANKS	85	1760	1000	-	83.6	460	3	60	• EXISTING FIRE PUMP IN EXISTING PUMP HOUSE. HOUSE IS RELOCATED • EXISTING JOCKEY PUMP IS ALSO IN THE EXISTING PUMP HOUSE
ESP-1	ZOELLER MODEL 940 W/ OIL GUARD	ELEVATOR PIT(S)	SUBMERSIBLE	-	6.5	1750	50	15	1/2	115	1	60	• PROVIDE APPROVED OIL SENSING ALARM

NOTES:

1. PROVIDE A 53 GALLON ELBI BLADDER TANK.
2. PUMPS TO BE SIZED FOR N+1 REDUNDANCY.
3. FOR PACKAGES BEING FED FROM A BREAK TANK, PACKAGE TO BE WIRED INTO THE LEVEL CONTROL PANEL'S LOW LEVEL ALARM FOR DRY RUN PROTECTION (NOTE: DRY RUN PROTECTION BY SUCTION PRESSURE SENSOR IS NOT ACCEPTABLE.)
4. PROVIDE INTEGRAL VFD ON EACH PUMP OR IF EXTERNAL DRIVES THEY SHALL BE CONTAINED WITHIN A SINGLE ELECTRICAL ENCLOSURE (MIN. NEMA 3R UNLESS NOTED OTHERWISE), PANEL SHALL HAVE MAIN DISCONNECT AND SINGLE POINT CONNECTION.
5. CONTROL PANEL TO BE SUPPLIED ON A SPLIT BASE FOR EASE OF MAINTENANCE AND INSTALLATION FLEXIBILITY. MOUNTING THE CONTROL PANEL TO THE PUMP SKID IS NOT PERMITTED.
6. PROVIDE REDUNDANT DISCHARGE PRESSURE TRANSDUCER AND CONTROL CAPABILITY TO MONITOR BOTH SENSOR AND AUTOMATICALLY SWITCH TO SECONDARY SENSOR IN THE EVENT OF A PRIMARY SENSOR FAILURE.
7. PROVIDE SURGE PROTECTION, BATTERY BACKUP, SERVICE DISCONNECTS, INDIVIDUAL PUMP RUN INDICATION, AUDIBLE & VISUAL ALARM, BACNET COMMUNICATION INTERFACE.
8. HEADERS SHALL BE CONSTRUCTED OF 316 SS WITH FLANGED CONNECTIONS ON ALL ENDS, PROVIDE SUCTION & DISCHARGE ISOLATION VALVES AND DISCHARGE CHECK VALVES ON EACH PUMP.
9. CONTRACTOR TO ROUTE A PIPE OFF THE SYSTEM DISCHARGE LINE TO THE BLADDER TANK PROVIDING A BLOCK & BLEED PIPING ARRANGEMENT THAT ALLOWS THE TANK TO BE ISOLATED FROM THE SYSTEM AND DRAINED.
10. WHEN REQUIRED, SYSTEM SUPPLIER TO PROVIDE 150# FLANGED X 150# FLANGED REDUCING FLEX CONNECTORS, OF ALL STAINLESS STEEL CONSTRUCTION (RE: PLANS FOR PIPE CONNECTION SIZES).
11. COORDINATE WITH PUMP MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL EQUIPMENT AND APPURTENANCES.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE				REMARKS
		WASTE	VENT	CW	HW	
WC-1	WATER CLOSET, WALL-MOUNTED BOWL W/ 1-1/2" TOP SPUD, 1.28 GPF, ELONGATED RIM, PROVIDE OPEN FRONT SEATLESS COVER AND ADJUSTABLE CARRIER	4"	2"	1-1/2"	-	• MANUAL
WC-2	WATER CLOSET, SAME AS WC-1 EXCEPT FLUSH VALVE SHALL BE ROUGHED-IN NO MORE THAN 44" AFF W/ CENTER LINE OF FIXTURE 18" FROM FINISHED WALL OR PARTITION, ADA	4"	2"	1-1/2"	-	• MANUAL
U-1	URINAL, WALL-MOUNTED W/ 3/4" TOP SPUD, HIGH EFFICIENCY 0.125 GPF, MOUNT URINAL RIM AT 24" ABOVE FINISHED FLOOR, PROVIDE FLOOR SUPPORTED URINAL CARRIER	2"	2"	3/4"	-	• MANUAL
U-2	URINAL, SAME AS U-1 EXCEPT RIM SHALL BE MOUNTED NO HIGHER THAN 17" AFF	2"	2"	3/4"	-	• MANUAL
L-1	LAVATORY, WALL-MOUNTED, 0.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480
L-2	LAVATORY, SAME AS L-1 EXCEPT RIM SHALL BE MOUNTED NO HIGHER THAN 34" AFF	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480
SK-1	SINK, DROP-IN SINGLE BOWL, TYPE 304 STAINLESS STEEL, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE ZURN MODEL Z1180 PLASTER TRAP AT ART ROOM SINKS
SK-2	SINK, DROP-IN DOUBLE BOWL, TYPE 304 STAINLESS STEEL, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE ZURN MODEL Z1180 PLASTER TRAP AT ART ROOM SINKS
SK-3	SINK, DROP-IN SINGLE (LARGE) BOWL, TYPE 304 STAINLESS STEEL, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE ZURN MODEL Z1180 PLASTER TRAP AT ART ROOM SINKS
LS-1	LAB SINK, SINGLE BOWL, HIGH DENSITY POLYETHYLENE, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, 0.74 GPM SERRATED NOZZLE, ORION OVFASSY GRID DRAIN AND OVERFLOW, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE WRISTBLADE HANDLE AT ADA SINK
LS-2	LAB SINK, SAME AS LS-1 EXCEPT RIM SHALL BE MOUNTED NO HIGHER THAN 34" AFF	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE WRISTBLADE HANDLE AT ADA SINK
SH-1	SHOWER, CONCEALED SUPPLY W/ INTEGRATED THERMOSTATIC MIXING VALVE, INTEGRAL SERVICE STOPS, VANDAL-PROOF SHOWER HEAD W/ WALL BRACKET, 1.5 GPM AERATOR, LEAD-FREE	2"	2"	3/4"	3/4"	-
SH-2	SHOWER, CONCEALED SUPPLY W/ INTEGRATED THERMOSTATIC MIXING VALVE, INTEGRAL SERVICE STOPS, VANDAL-PROOF SHOWER HEAD W/ WALL BRACKET, HAND-HELD SHOWER W/ METAL CLAD HOSE AND GLIDE RAIL, 1.5 GPM AERATOR, ADA, LEAD-FREE	2"	2"	3/4"	3/4"	-
SH-3	SHOWER, SURFACE MOUNTED PANEL W/ INTEGRATED THERMOSTATIC MIXING VALVE, INTEGRAL SERVICE STOPS, VANDAL-PROOF SHOWER HEAD W/ WALL BRACKET, 1.5 GPM AERATOR, LEAD-FREE	2"	2"	3/4"	3/4"	-
EDF-1	ELECTRIC DRINKING FOUNTAIN, INDOOR BI-LEVEL WALL-MOUNTED W/ BOTTLE FILLER, STAINLESS STEEL FINISH, DEARBORN 704-1 1-1/2" 17 GA. P-TRAP, BRASS CRAFT G2CR19C ANGLE STOP, AQUAFLO SFC-120-PP STAINLESS STEEL FLEX CONNECTORS, CHROME PLATED BUBBLER, SELF-CLOSING MECHANICAL PUSHBUTTON, STREAM REGULATOR, FILTERED, REFRIGERATED, ELECTRICAL, ADA, LEAD-FREE	2"	2"	3/4"	-	-
EW-1	EMERGENCY SHOWER W/ EYE AND FACE WASH, RECESSED BARRIER FREE EYE AND FACE WASH, EXPOSED CEILING-MOUNTED SHOWER HEAD, INTEGRAL DRAIN PAN, FILTERED, ADA, LEAD-FREE	-	-	3/4"	-	-
SS-1	SERVICE SINK, FLOOR-MOUNTED SQUARE TYPE SINGLE BASIN, SOLID SURFACE MATERIAL (NON-POROUS STONE), INCLUDE HOSE W/ BRACKET AND MOP HANGER, LEAD-FREE	3"	2"	3/4"	3/4"	• PROVIDE SERVICE SINK FAUCET W/ WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT • PROVIDE WITH STAINLESS STEEL WALL GUARDS
FD-1	FLOOR DRAIN, ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER, LACQUERED CAST IRON BODY W/ DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FD-2	FLOOR DRAIN, SQUARE, ADJUSTABLE NICKEL-BRONZE STRAINER, LACQUERED CAST IRON BODY W/ DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, SEDIMENT BUCKET, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FD-3	FLOOR DRAIN, ROUND, MEDIUM-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM, LACQUERED CAST IRON BODY, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, SEDIMENT BUCKET, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FS-1	FLOOR SINK, 8" SQUARE, MEDIUM-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM W/ SECURED 1/2 GRATE, CAST IRON BODY, INTEGRAL SEEPAGE PAN, POLISHED ALUMINUM BOTTOM DOME STRAINER, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FS-2	FLOOR SINK, 12" SQUARE, LIGHT-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM W/ SECURED 3/4 GRATE, CAST IRON BODY, INTEGRAL SEEPAGE PAN, POLISHED ALUMINUM BOTTOM DOME STRAINER, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FS-3	FLOOR SINK, 12" SQUARE, LIGHT-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM W/ SECURED 1/2 GRATE, CAST IRON BODY, INTEGRAL SEEPAGE PAN, POLISHED ALUMINUM BOTTOM DOME STRAINER, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
TP-1	TRAP PRIMER, PRESSURE DROP TYPE, VACUUM BREAKER TRAP PRIMER CONNECTED TO COLD WATER SUPPLY ONLY W/ ISOLATION VALVE, LEAD-FREE	-	-	-	-	• LOCATE ABOVE CEILING WITH ACCESS PANEL AS REQ'D
TP-3	TRAP PRIMER, AUTOMATIC TYPE, INTEGRAL ANTI-SIPHON AIR PORT, CONNECT TRAP PRIMER TO COLD WATER SUPPLY ONLY, LEAD-FREE	-	-	-	-	• PROVIDE ONLY AT INDIRECT WASTE RECEPTOR PER DETAILS
TP-E	TRAP PRIMER, ELECTRIC TYPE, VACUUM BREAKER TRAP PRIMER CONNECTED TO COLD WATER SUPPLY MANIFOLD, SLOW CLOSING 24 VAC SOLENOID VALVE W/ INTEGRAL STRAINER, 120 - 24 VAC TRANSFORMER, LEAD-FREE	-	-	-	-	-
TD-1	TRENCH DRAIN, REFER TO THE 22 40 00 SPECIFICATIONS FOR DESCRIPTION	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
RD-1	ROOF DRAIN, LOW PROFILE REMOVABLE ALUMINUM DOME AND LACQUERED CAST IRON SUMP RECIEVER, UNDERDECK CLAMP, NO-HUB CONNECTION	-	-	-	-	-
OD-1	OVERFLOW ROOF DRAIN, WATERDAM EXTENDED TO 2" ABOVE FLOOD ELEVATION, LOW PROFILE REMOVABLE ALUMINUM DOME AND LACQUERED CAST IRON SUMP RECIEVER, UNDERDECK CLAMP, NO-HUB CONNECTION	-	-	-	-	-
HB-1	HOSE BIBB, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL FAUCET W/ INTEGRAL BACKFLOW PREVENTER, LEAD-FREE	-	-	3/4"	-	• PROVIDE AT EACH RESTROOM BELOW THE LAVATORY
HB-2	HOSE BIBB, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL FAUCET W/ INTEGRAL BACKFLOW PREVENTER, FREEZE-RESISTANT, LEAD-FREE	-	-	3/4"	-	-
HB-3	HOSE BIBB, WALL-MOUNTED, EXPOSED, ANTI-SIPHON WALL FAUCET W/ INTEGRAL BACKFLOW PREVENTER, LEAD-FREE	-	-	3/4"	-	• PROVIDE IN INTERIOR MECHANICAL SPACES
WH-1	WALL HYDRANT, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL HYDRANT W/ INTEGRAL BACKFLOW PREVENTER, FREEZE-RESISTANT, LOCKABLE BOX AND LOOSE TEE KEY TO BE FURNISHED W/ WALL HYDRANT, LEAD-FREE	-	-	3/4"	-	-
RVB-1	REFRIGERATOR VALVE BOX, WALL-MOUNTED, STAINLESS STEEL PREFORMED ROUGH-IN BOX FLUSH W/ WALL, INTEGRAL WATER HAMMER ARRESTER, LEAD-FREE	-	-	3/4"	-	-
RVB-2	REFRIGERATOR VALVE BOX, WALL-MOUNTED, STAINLESS STEEL PREFORMED ROUGH-IN BOX FLUSH W/ WALL, INTEGRAL WATER HAMMER ARRESTER, LEAD-FREE	2"	2"	3/4"	3/4"	-
TMV-1	THERMOSTATIC MIXING VALVE, POINT-OF-USE, FLOW CAPACITY BETWEEN 0.35 GPM MINIMUM AND 4 GPM MAXIMUM AT 5 PSI PRESSURE DROP, VOLUME CONTROL SHUT-OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, LEAD-FREE	-	-	3/4"	3/4"	-
TMV-2	THERMOSTATIC MIXING VALVE, HIGH / LOW USE, FLOW CAPACITY BETWEEN 3 GPM MINIMUM AND 14 GPM MAXIMUM AT 5 PSI PRESSURE DROP, VOLUME CONTROL SHUT-OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, LEAD-FREE	-	-	1-1/4"	1-1/4"	-
TMV-3	THERMOSTATIC MIXING VALVE, MASTER FIXTURE BANK USE, FLOW CAPACITY BETWEEN 3 GPM MINIMUM AND 30 GPM MAXIMUM AT 5 PSI PRESSURE DROP, VOLUME CONTROL SHUT-OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, LEAD-FREE	-	-	1-1/4"	1-1/4"	-

NOTES:

1. ROUGH-IN SUPPLY WASTE AND VENT PIPE SIZES INDICATED ARE MINIMUM SIZES SHOWN FOR ROUGH-IN PURPOSES ONLY.
2. COORDINATE WITH FIXTURE MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL FIXTURES AND APPURTENANCES.
3. ALL PLUMBING FIXTURES SHALL BE COMPLETELY ROUGH-IN BY THE PLUMBING CONTRACTOR AND SHALL MEET ALL CODES HAVING JURISDICTION.
4. ALL FIXTURES TO BE COMMERCIAL GRADE UNLESS OTHERWISE NOTED.
5. PROVIDE A WATER HAMMER ARRESTER IN PIPING TO ALL FIXTURES AND / OR FIXTURE BANKS.
6. PROVIDE A SHUT-OFF VALVE AT ALL FIXTURES AND / OR FIXTURE BANKS AND AT EACH FLOOR IF FIXTURES AND / OR FIXTURE BANKS ARE STACKED (MULTI-LEVEL).

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713.366.0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

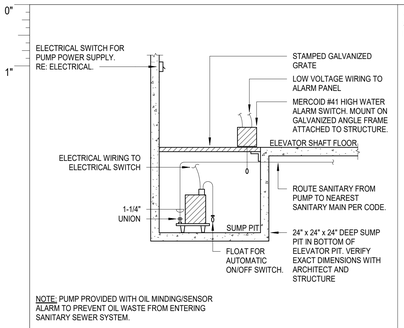
CHECKED BY: SC
DRAWN BY: SC

PLUMBING SCHEDULES

P-501

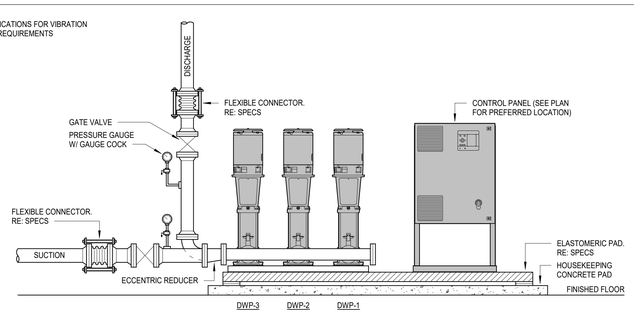
Plot Stamp:
12/3/2025 1:42:51 PM

PLUMBING DETAILS
P-601
FOR BLUEBEAM LABELING/DOCR:

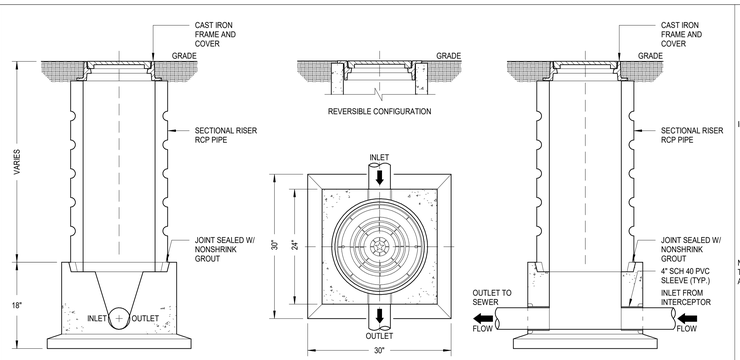


NOTE: PUMP PROVIDED WITH OIL MINDING/SENSOR ALARM TO PREVENT OIL WASTE FROM ENTERING SANITARY SEWER SYSTEM.

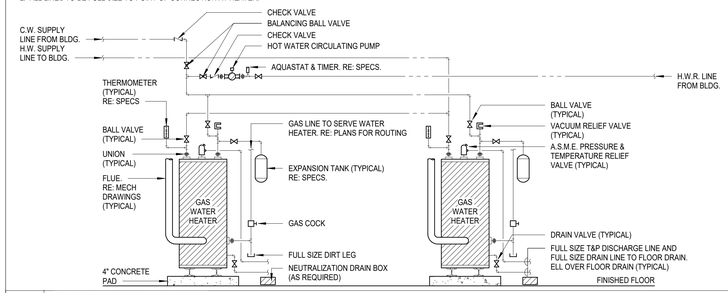
23 ELEVATOR SUMP PUMP
N.T.S



22 DOMESTIC WATER BOOSTER PUMP
N.T.S

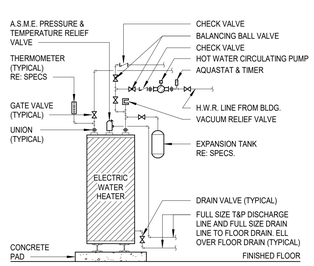


NOTES:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.



21 GAS WATER HEATER
N.T.S

NOTES:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.



20 ELECTRIC WATER HEATER PIPING
N.T.S

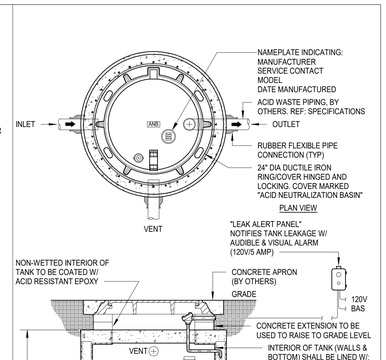
SPECIFICATIONS

CONCRETE : CLASS 1 CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30, HEAVY-DUTY AASHTO H-20.

NOTES
1. SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.
2. USE 15" T&G R.C.P. FOR INSTALLATION FOR INSTALLATION 6'-0" DEEP AND LESS
3. USE 24" T&G R.C.P. FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STD RING AND M.H. COVER REQUIRED)
4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE.)
5. INSIDE INSTALLATION NOT PERMITTED, WHERE OUTSIDE INSTALLATION IS POSSIBLE.
6. INSTALLATION INSIDE BLDG. MUST BE POURED IN PLACE (15"MIN) NO CONCRETE PIPE IS PERMITTED, (AIR-TIGHT COVER REQUIRED.)
7. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
8. DRIVE & SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE
9. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.

19 SAMPLING WELL
N.T.S



ACID DILUTION/NEUTRALIZING TANK SCHEDULE								
MODEL NO.	CAPACITY (US GAL)	CAPACITY (FT^3)	FLOW (GAL / HR)	WEIGHT (LBS)	LAB STATIONS	DIA	D	FLOW LINE FL.
ANT-200	200	27	400	4,000	40	36"	60"	48"

18 ACID DILUTION/NEUTRALIZING TANK
N.T.S

NOTES:
1. ALL POLYCARBONATE RESIN HAS BEEN TREATED WITH CARBON BLACK FOR ULTRAVIOLET RESISTANCE AND PROTECTION.

NOTES:
SIZE RODS, SPRING CUSHION, AND HORIZONTAL MEMBER APPROVED TO SATISFY LOAD REQUIREMENT W/ SAFETY FACTOR OF 5

NOTES:
ROUTE PIPING AS LOW AS POSSIBLE TO CEILING GRID FOR EASE OF ACCESSIBILITY

NOTES:
1. ALL STEEL HOT DIPPED GALV AFTER FABRICATION IF OUTDOORS; SANDBLAST AND SHOP PRIME ALL OTHERS
2. SECURE W/ APPROVED ANCHORS TO MATCH WALL CONSTRUCTION

17 INDIRECT WASTE RECEPTOR
N.T.S

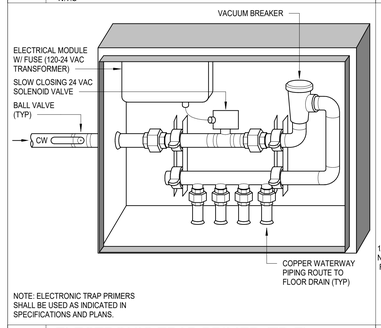
16 ROOF GAS PIPE SUPPORT DETAIL
NOT TO SCALE

15 SINGLE PIPE TYPE 1 CLEVIS HANGER
N.T.S

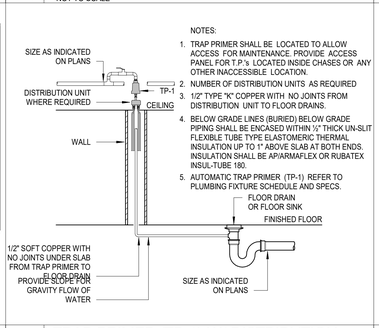
14 PIPE SUPPORT - TRAPEZE TYPE
N.T.S

13 PIPE WALL SUPPORT
N.T.S

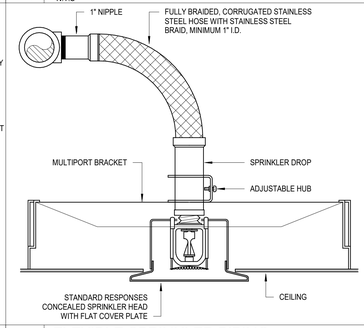
12 REDUCED PRESSURE BACKFLOW ASSEMBL
N.T.S



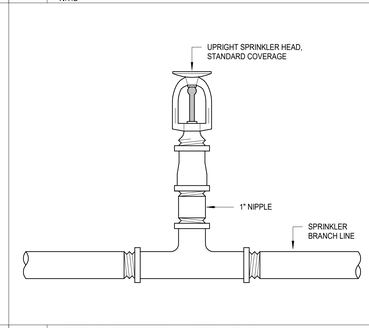
NOTE: ELECTRONIC TRAP PRIMERS SHALL BE USED AS INDICATED IN SPECIFICATIONS AND PLANS.

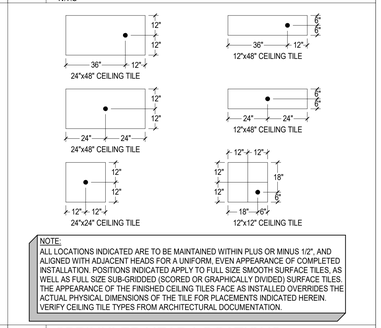


NOTES:
1. TRAP PRIMER SHALL BE LOCATED TO ALLOW ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANEL FOR T.P.'s LOCATED INSIDE CHASES OR ANY OTHER INACCESSIBLE LOCATION.
2. NUMBER OF DISTRIBUTION UNITS AS REQUIRED
3. 1/2" TYPE "K" COPPER WITH NO JOINTS FROM DISTRIBUTION UNIT TO FLOOR DRAINS.
4. BELOW GRADE LINES (BURIED) BELOW GRADE PIPING SHALL BE ENCASED WITHIN ½" THICK UN-SLIT FLEXIBLE TUBE TYPE ELASTOMERIC THERMAL INSULATION UP TO 1" ABOVE SLAB AT BOTH ENDS. INSULATION SHALL BE AP/ARMAFLEX OR RUBATEX INSUL-TUBE 180.
5. AUTOMATIC TRAP PRIMER (TP-1) REFER TO PLUMBING FIXTURE SCHEDULE AND SPECS.









NOTE:
ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2", AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPEARANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES. AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHICALLY DIVIDED) SURFACE TILES, THE APPEARANCE OF THE FINISHED CEILING TILES FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHITECTURAL DOCUMENTATION.

11 ELECTRONIC TRAP PRIMER (TP-E)
N.T.S

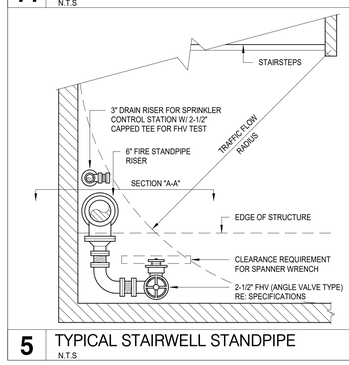
10 TRAP PRIMER (TP-1) W/ DISTRIBUTION
N.T.S

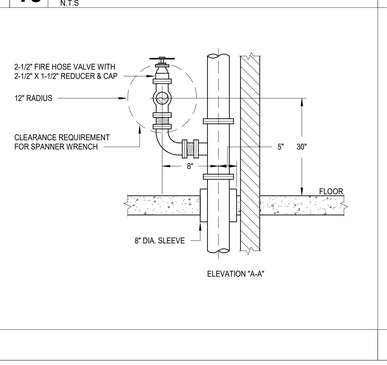
9 FLEXIBLE SPRINKLER PIPING
N.T.S

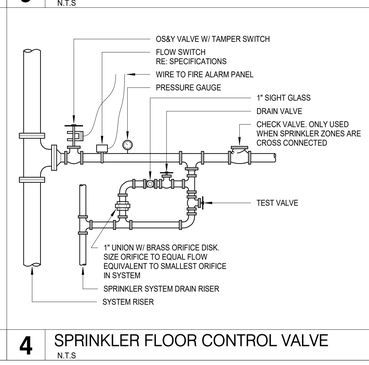
8 CONCEALED SPRINKLER HEAD
N.T.S

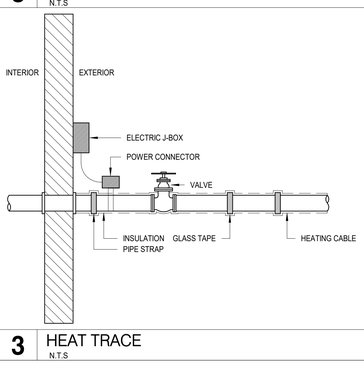
7 UPRIGHT SPRINKLER HEAD
N.T.S

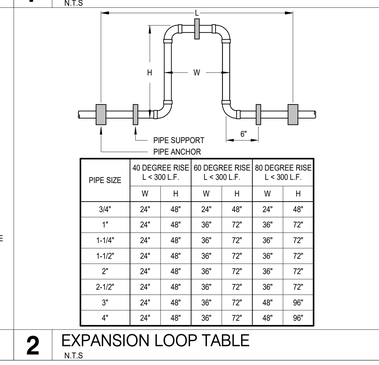
6 SPRINKLER HEAD LOCATIONS
N.T.S



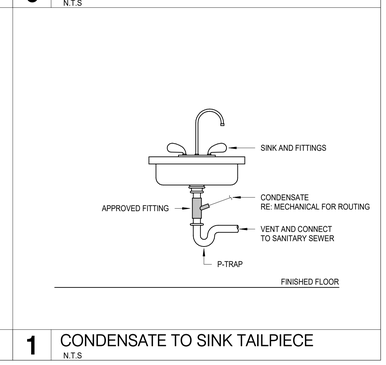








PIPE SIZE	40 DEGREE RISE L < 300 L.F.		60 DEGREE RISE L < 300 L.F.		80 DEGREE RISE L < 300 L.F.	
	W	H	W	H	W	H
3/4"	24"	48"	24"	48"	24"	48"
1"	24"	48"	36"	72"	36"	72"
1-1/4"	24"	48"	36"	72"	36"	72"
1-1/2"	24"	48"	36"	72"	36"	72"
2"	24"	48"	36"	72"	36"	72"
2-1/2"	24"	48"	36"	72"	36"	72"
3"	24"	48"	36"	72"	48"	96"
4"	24"	48"	36"	72"	48"	96"



5 TYPICAL STAIRWELL STANDPIPE
N.T.S

4 SPRINKLER FLOOR CONTROL VALVE
N.T.S

3 HEAT TRACE
N.T.S

2 EXPANSION LOOP TABLE
N.T.S

1 CONDENSATE TO SINK TAILPIECE
N.T.S

Plot Stamp:
12/3/2025 1:42:54 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

STATE OF TEXAS
DONALD C. RICHARDS
61572
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

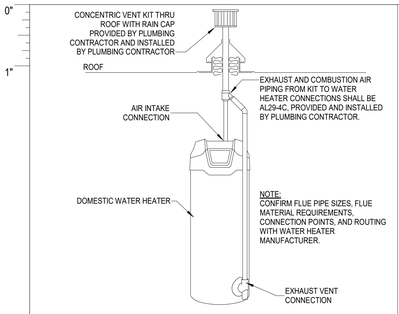
No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

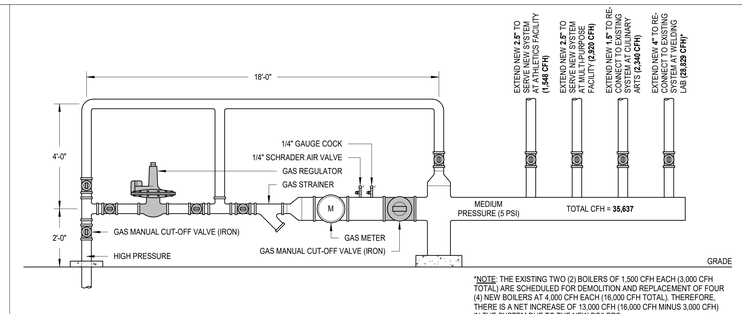
PLUMBING DETAILS

P-601

PLUMBING DETAILS
P-602
FOR BLUEBEAM LABELING/DOOR:

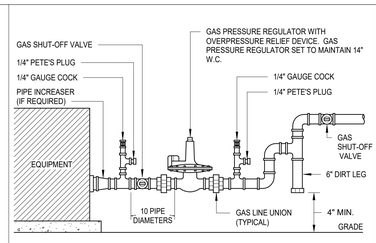


26 GAS WATER HEATER FLUE DETAIL
N.T.S



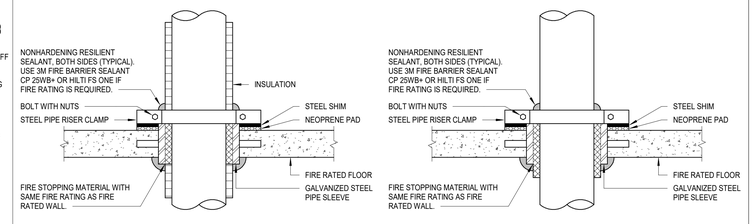
*NOTE: THE EXISTING TWO (2) BOILERS OF 1,500 CFH EACH (3,000 CFH TOTAL) ARE SCHEDULED FOR DEMOLITION AND REPLACEMENT OF FOUR (4) NEW BOILERS AT 4,000 CFH EACH (16,000 CFH TOTAL). THEREFORE, THERE IS A NET INCREASE OF 13,000 CFH (16,000 CFH MINUS 3,000 CFH) IN THE SYSTEM DUE TO THE NEW BOILERS.

25 TYPICAL LARGE SERVICE GAS METER
N.T.S

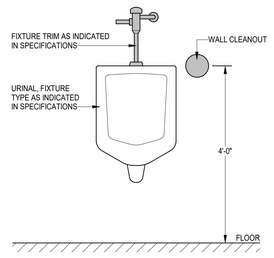


24 EQUIPMENT GAS CONNECTION
N.T.S

NOTES:
1. REFER TO SPECIFICATIONS FOR INSULATED PIPE RISER SUPPORTS.
2. COORDINATE RISER CLAMP ORIENTATION TO BE WITHIN WALL CAVITY.
3. INSTALL FIRE STOPPING MATERIAL PER MANUFACTURER'S RECOMMENDATION.
4. REFER TO ARCHITECTURAL DRAWING FOR FLOOR FIRE RATING.
5. INSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. C-AJ-5077
6. UNINSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. CA-AJ-1221

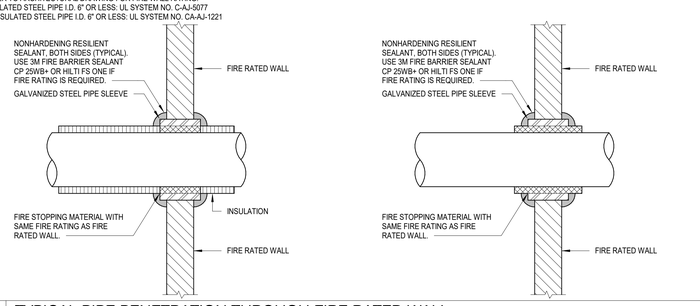


23 TYPICAL PIPE PENETRATION THROUGH FIRE RATED FLOOR
3/8" = 1'-0"

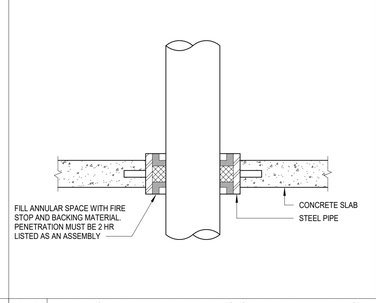


22 URINAL ELEVATION CLEANOUT
N.T.S

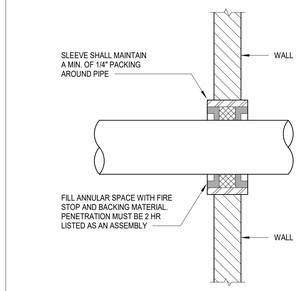
NOTES:
1. REFER TO ARCHITECTURAL DRAWING FOR FIRE WALL RATING.
2. INSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. C-AJ-5077
3. UNINSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. CA-AJ-1221



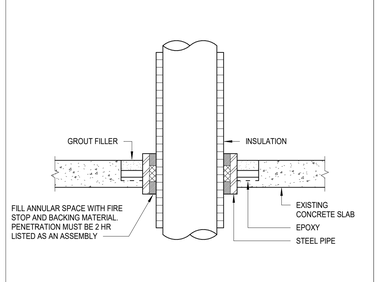
21 TYPICAL PIPE PENETRATION THROUGH FIRE RATED WALL
3/8" = 1'-0"



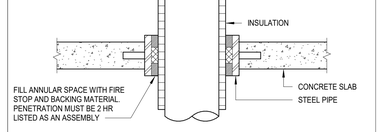
20 UNINSULATED PIPE FLOOR PENETRATION
N.T.S



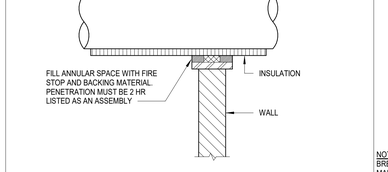
19 UNINSULATED PIPE WALL PENETRATION
N.T.S



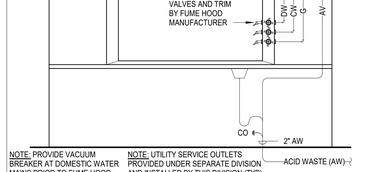
18 INSULATED PIPE FLOOR PENETRATION
N.T.S



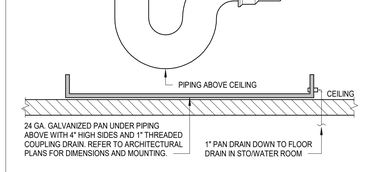
17 INSULATED PIPE FLOOR PENETRATION
N.T.S



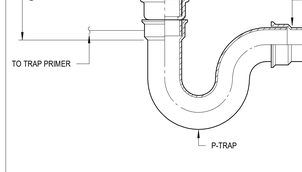
16 INSULATED PIPE WALL PENETRATION
N.T.S



15 LAB FUME HOOD
N.T.S



14 DRAIN PAN DETAIL
N.T.S



13 FLOOR SINK
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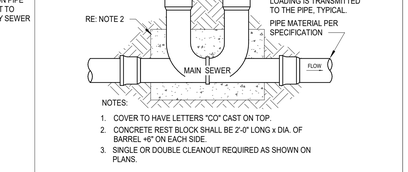
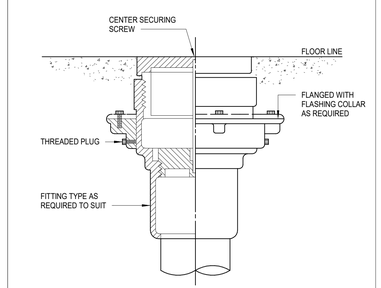
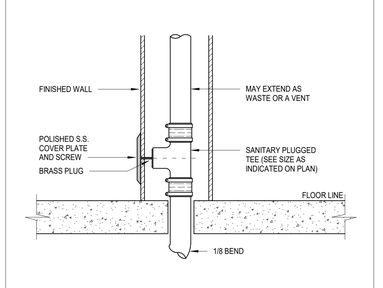


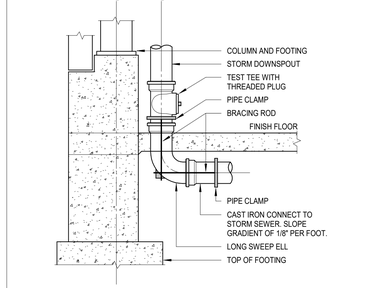
12 P6N DOUBLE EXTERIOR CLEANOUT
N.T.S



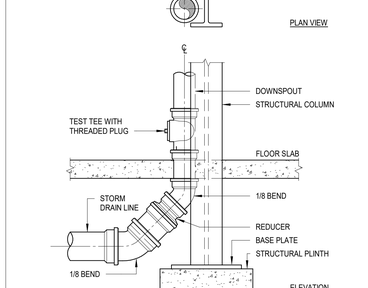
11 FLOOR CLEANOUT
N.T.S



10 WALL CLEANOUT DETAIL
N.T.S



9 STORM DOWNSPOUT
N.T.S



8 STORM DOWNSPOUT
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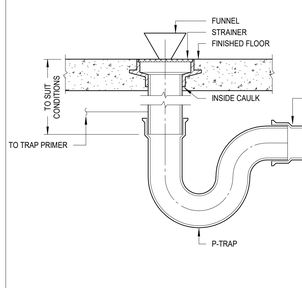

7 FLOOR DRAIN DETAIL
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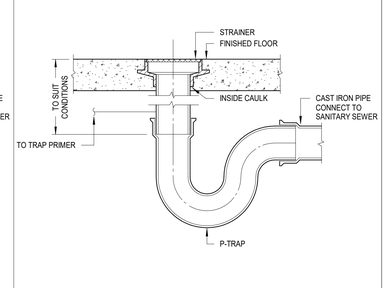
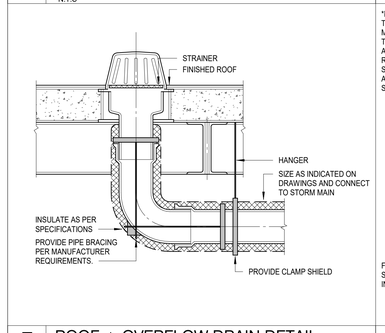
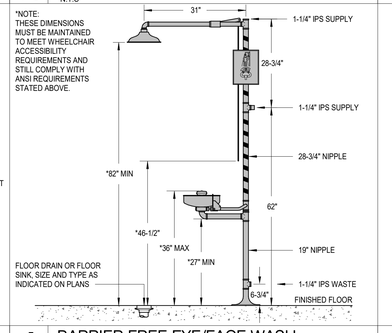


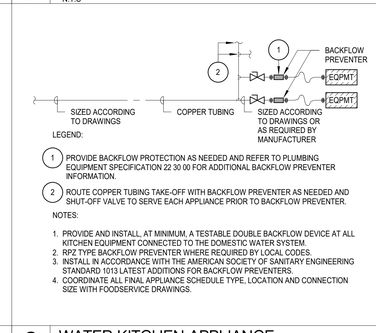
6 FLOOR DRAIN DETAIL
N.T.S



5 ROOF + OVERFLOW DRAIN DETAIL
N.T.S



4 BARRIER FREE EYE/FACE WASH
N.T.S



3 WATER KITCHEN APPLIANCE
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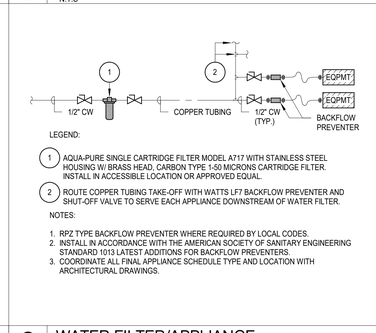

2 WATER FILTER/APPLIANCE
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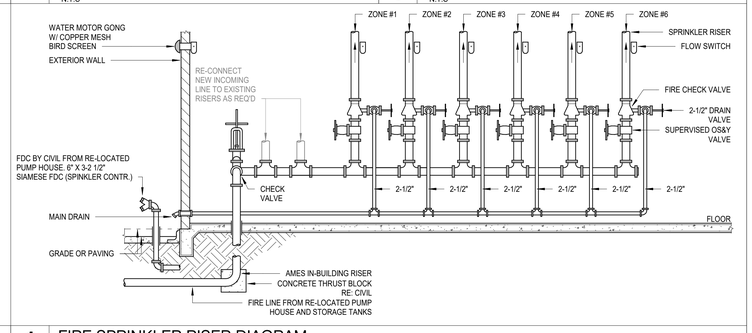

1 FIRE SPRINKLER RISER DIAGRAM
N.T.S

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
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Galena Park ISD

STATE OF TEXAS
DONALD C. RICHARDS
61572
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DETAILS

P-602

Plot Stamp:
12/3/2025 1:42:56 PM

PLUMBING DETAILS
P-603
FOR BLUEBEAM LABELING/OCR:

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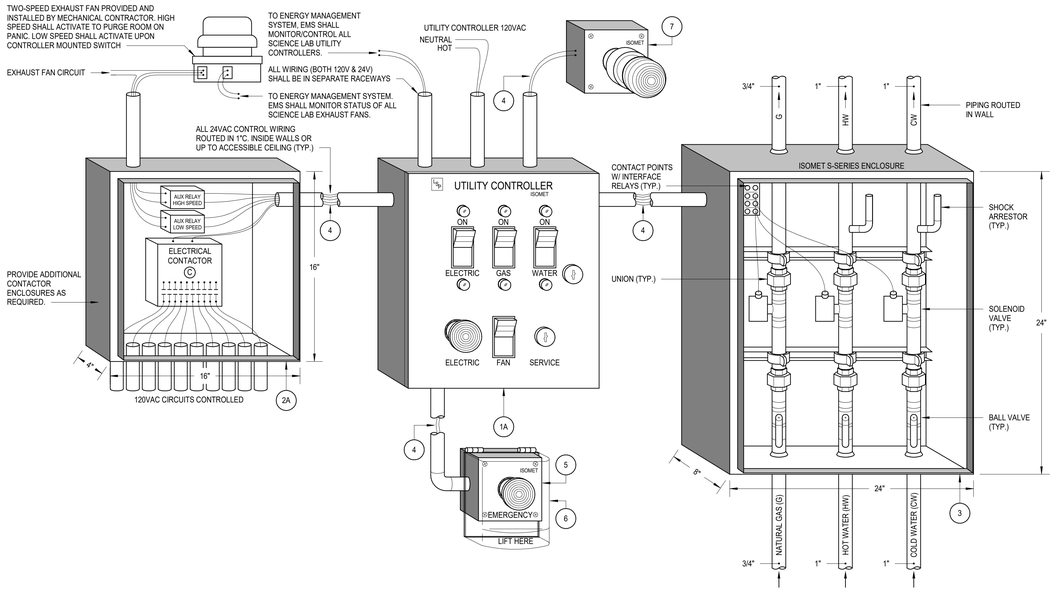


2 P7Q ISOMET SAFETY DEVICE SYSTEM INSTALL
N.T.S

ISOMET SYSTEM GENERAL NOTES:

1. EACH UTILITY CONTROLLER WHERE SHOWN ON THE DRAWINGS SHALL OPERATE AS AN INDEPENDENT CONTROL SYSTEM.
2. DETAIL ASSUMES ALL UTLITIES ARE CONTROLLED (ELECTRICAL, COLD AND GAS). REFER TO PLAN FOR THE UTILITIES CONTROLLED PER ROOM, MODIFY SYSTEM AS REQUIRED.
3. ELECTRICAL CONTRACTOR SCOPE OF WORK - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE IN HIS BASE BID ALL LABORATORY SAFETY DEVICE SYSTEM EQUIPMENT, AS WELL AS CONDUIT SYSTEMS, OPERATING POWER, AND ALL LOW VOLTAGE CONTROL WIRING FOR THE LABORATORY SAFETY DEVICE SYSTEM AS OUTLINED IN THE DRAWINGS AND SPECIFICATIONS.
4. PLUMBING CONTRACTOR SCOPE OF WORK - IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PROVIDE IN HIS BASE BID ALL LABOR AND OTHER PROVISIONS FOR INSTALLATION OF THE LABORATORY SAFETY DEVICE SYSTEM SOLENOID ENCLOSURE, ASSOCIATED PIPING, ETC AS OUTLINED IN THE DRAWINGS AND SPECIFICATIONS.
5. MECHANICAL CONTRACTOR SCOPE OF WORK - IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PROVIDE IN HIS BASE BID ALL LABOR AND OTHER PROVISIONS FOR INSTALLATION OF THE LABORATORY SAFETY DEVICE SYSTEM EXHAUST FAN/EMS INTERFACE AND CONTROLS.
6. ALL 24VAC WIRING SHALL BE ROUTED IN DEDICATED RACEWAYS. EMS WIRING SHALL BE ROUTED COMPLETELY INDEPENDENT FROM ISOMET CONTROL WIRING.

ISOMET SYSTEM KEYED NOTES:

1A ISOMET UTILITY CONTROLLER - (M# 222-9) - UTILITY CONTROLLER SHALL BE FLUSH MOUNTED PANEL W/ STAINLESS STEEL COVER AND 24 VAC CONTROL DEVICES UNLESS NOTED OTHERWISE. LOCATE PER PLAN. CONTROLLER PANEL SHALL HAVE THE MINIMUM OF:
- DOOR PANEL-MOUNTED ENABLING KEY SWITCH
- DOOR PANEL-MOUNTED SERVICE CONTROL SWITCHES
- DOOR PANEL-MOUNTED SERVICE LED LAMPS - UTILITIES ACTIVE/INACTIVE VISUAL INDICATOR
- DOOR PANEL-MOUNTED EMERGENCY PANIC BUTTON - PROVIDE EMERGENCY SHUT-OFF AS REQUIRED PER TEXAS STATE SCIENCE FACILITIES STANDARDS
- UL916 LISTED
- INTERNAL ENERGY MANAGEMENT SYSTEM INPUT W/ MONITORING

2A ISOMET CONTACTOR ENCLOSURE - (M# E-1-1-10-S-L-EX A) - NEMA 4 RATED CONTACTOR ENCLOSURE WITH 10-CIRCUIT MECHANICALLY HELD CONTACTOR. CONTACTOR SHALL HAVE 24VAC VOLT CONTROL COILS WITH 120V CONTACTS. ENCLOSURE SHALL ALSO BE PROVIDED WITH AUX RELAYS FOR EXHAUST FAN CIRCUIT SPEED CONTROLS. CONTACTOR ENCLOSURE TO BE LOCATED ABOVE CEILING UNLESS INDICATED OTHERWISE ON PLAN. REFER TO PLAN FOR CIRCUITS CONTROLLED.

3 ISOMET PRE-ASSEMBLED SOLENOID VALVE ENCLOSURE - (M#S-121-3-24VAC-1CW-1HW-3/4G-K-FIA/U) - 3-VALVE SOLENOID ENCLOSURE W/ WHITE POWDER COAT COVER. ENCLOSURE SHALL BE STANDARD ASSEMBLY W/ GROMMETS. ASSEMBLY SHALL HAVE SHOCK ARRESTORS, IN-LINE STRAINERS, AND SECONDARY UNIONS. SOLENOID ENCLOSURE SHALL BE LOCATED ABOVE CEILING UNLESS OTHERWISE INDICATED PER PLANS. WITH 36" OF WORKING SPACE IN FRONT OF ENCLOSURE DOOR. PROVIDE 30" WIDTH OF WORKING SPACE IN FRONT OF ENCLOSURE FOR MAINTENANCE.

4 CONTROL WIRING - VERIFY WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.

5 ISOMET EMERGENCY REMOTE PANIC BUTTON - (M#IP-0) - PANIC BUTTON SHALL BE FLUSH MOUNTED NEAR EACH EXIT DOOR IN THE SCIENCE LAB UNLESS OTHERWISE INDICATED ON PLAN.

6 PANIC BUTTON PROTECTIVE COVER - (STI #SS-2010F OR EQUAL) - PROVIDE PROTECTIVE COVER AT EACH PANIC BUTTON LOCATION. COVER SHALL BE CLEAR.

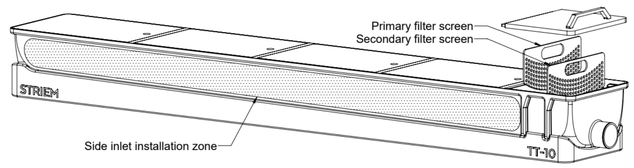
7 REMOTE TROUBLE INDICATING BEACON - (M#MLA-1-AB) - REMOTE "RED" FLASHER BEACON W/ 90dB ALARM LOCATED INSIDE AND OUTSIDE CLASSROOM LOCATED ABOVE ONLY (1) EXIT DOOR.

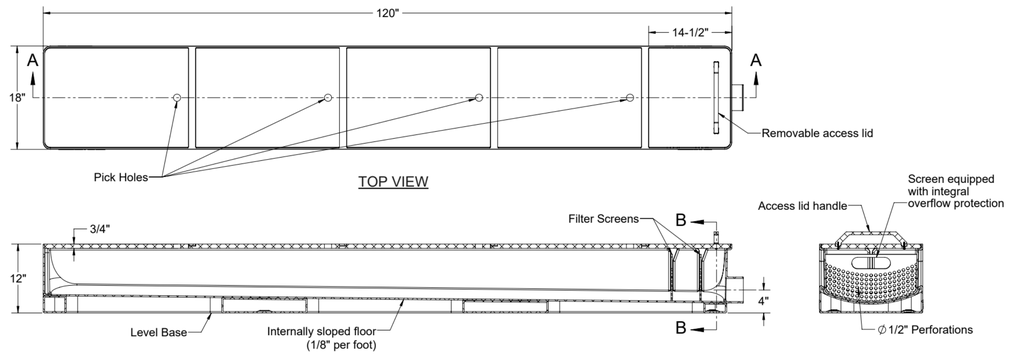
SPECIFICATIONS
1. 4" Plain End outlet.
2. 1/8" per foot built-in slope.
3. Liquid Capacity: 65 Gallons.
4. Unit Weight: 135 lbs.
5. Maximum operating temperature 165°F intermittent.

NOTES
1. All inlet connections are field installed.
2. Filter screens equipped with ∅1/2" perforations.

ENGINEER SPECIFICATION GUIDE
Striem Tuff Trough model TT-10 shall be lifetime guaranteed and made in the USA. Trough shall be constructed of polyethylene with 1/4" nominal wall thickness. Trough shall have removable, corrosion-resistant primary filter screen and secondary filter screen. Trough shall be furnished with a nested cover, internally sloped floor, and suitable for above- or below-grade installation. Trough shall be equipped with a plain end molded-in outlet. Inlet connections are field installed. Maximum operating temperature 165°F intermittent. Trough shall be certified to IAPMO/ANSI/CAN Z1167 and carry a UPC listing.

OPTIONS
☐ **IG-3**: 3" Inlet Grommet QTY:_____





1 LAUNDRY TROUGH - STRIEM TT-10
N.T.S

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

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PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DETAILS

P-603

0"

1"

TECHNOLOGY SYSTEM NOTES AND LEGENDS

T-001

FOR BLUEBEAM LABELING/OCR:

FIRE ALARM LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		FOOT ADDED TO ANY SYMBOL INDICATES WALL MOUNTED.
	F	MANUAL FIRE ALARM PULL STATION. INSTALL AT 48" A.F.F. PROVIDE STOPPER II COVER WITH HORN.
	FS	FIRE ALARM SPEAKER OR HORN. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR.
		COMBINATION SPEAKER / STROBE. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR. "WP" SUBTEXT INDICATES WEATHERPROOF MODEL. SUBTEXT "G" INDICATES DEVICE COVERED BY PROTECTIVE WIREGUARD OR CLEAR POLYCARBONATE GUARD.
		VISUAL ALARM STROBE.
	S	SMOKE DETECTOR. NO SUBSCRIPT INDICATES IONIZATION TYPE; "P" INDICATES PHOTOELECTRIC TYPE; "D" INDICATES DUCT TYPE AND PHOTOELECTRIC.
		HEAT DETECTOR; COMBINATION RATE OF RISE AND FIXED TEMPERATURE. "F" INDICATES FIXED TEMPERATURE ONLY; "R" INDICATES RATE OF RISE ONLY. "C" INDICATES RATE COMPENSATION TYPE.
	CO	CARBON MONOXIDE DETECTOR.
	B	BEAM SMOKE DETECTOR. SUBTEXT "T" INDICATES TRANSMITTER. "R" INDICATES RECEIVER.
	FT	FIRE FIGHTER'S TELEPHONE JACK. SUBTEXT "H" INDICATES PERMANENT EMERGENCY TELEPHONE HANDSET.
	R	AUXILIARY CONTROL RELAY. "2" INDICATES TWO RELAYS REQUIRED FOR FIRE FIGHTER OVERRIDE CONTROL.
	D	FIRE/SMOKE DUCT DAMPER WITH MOTOR ACTUATOR (BY DIV. 15). PROVIDE FIRE ALARM CONTROL RELAYS AND ADDRESSABLE MODULE.
	FTC	TERMINAL CABINET FOR FIRE ALARM SYSTEM WIRING.
	FACP	FIRE ALARM CONTROL PANEL. INSTALL AT 58" TO CENTER OF PANEL / 72" TO TOP OF PANEL.
	FAA	FIRE ALARM ANNUNCIATOR PANEL.
	FTR	FIRE ALARM TRANSPONDER.
	SV	SPRINKLER SYSTEM GATE VALVE MONITOR SWITCH.
	FS	SPRINKLER SYSTEM WATER FLOW SWITCH.
	TS	TAMPER SWITCH.
	CV	SPRINKLER SYSTEM ALARM CHECK VALVE.
	B	SPRINKLER SYSTEM ELECTRIC ALARM BELL.
	PA	SPRINKLER SYSTEM PRE-ACTION CONTROL PANEL.
	DH	DOOR HOLDER.
	MM	MONITOR MODULE

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CEILING AREAS AS REQUIRED BY CODE.

SEQUENCE OF OPERATIONS

1. WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING FUNCTIONS OCCUR:
   A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH. THE INTERNAL AUDIBLE TROUBLE DEVICE SHALL SOUND. ACKNOWLEDGEMENT OR SILENCING THE ALARM CONDITION SHALL SILENCE THE ALARM SIGNALS AND CAUSE FLASHING ALARM LED'S TO ILLUMINATE STEADY.
   B. AN BACK-LIT LCD DISPLAY SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE TYPE, DIVIDE LOCATION AND TIME OF ALARM. LOCATION AND ZONING MESSAGES SHALL BE CUSTOM FIELD PROGRAMMED TO RESPECTIVE PREMISES. THE ALARM INFORMATION MUST BE STORED IN EVENT MEMORY FOR LATER REVIEW. EVENT MEMORY MUST BE AVAILABLE AT THE MAIN AND ALL REMOTE ANNUNCIATORS.
   C. ANY REMOTE OR LOCAL ANNUNCIATOR LED's ASSOCIATED WITH THE ALARM ZONE SHALL BE ILLUMINATED AS HEREIN SPECIFIED.
   D. A THREE CHANNEL DIGITAL ALARM COMMUNICATOR SHALL BE INTEGRALLY PROVIDED AND TRANSMIT TROUBLE AND ALARM SIGNALS TO AN APPROVED REMOTE STATION. (REMOTE STATION CONNECTION AND SERVICE PROVIDED BY OWNER).
   E. WHEN THE ALARMED DEVICE IS RESTORED TO NORMAL, THE CONTROL PANEL SHALL BE REQUIRED TO BE MANUALLY RESET TO CLEAR THE ALARM CONDITION, EXCEPT THAT THE ALARMS MAY BE SILENCED AS PROGRAMMED.
   F. AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY AT THE MAIN OR REMOTE ANNUNCIATORS. WHEN SILENCED, THIS SHALL NOT PREVENT THE RESOUNDING OF SUBSEQUENT EVENTS IF ANY OTHER EVENT SHOULD OCCUR. (SUBSEQUENT ALARM FEATURE). WHEN ALARMS ARE SILENCED THE SILENCED LED ON THE CONTROL PANEL AND ON ANY REMOTE ANNUNCIATORS SHALL REMAIN LIT UNTIL THE ALARMED DEVICE IS RETURNED TO NORMAL.
   G. ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED DISCRIMINATOR DEVICE AND/OR OUTPUTS ACTIVATED. AS EACH INDICATING CIRCUIT OR CONTROL RELAY IS ACTIVATED, ITS ASSOCIATED "ON" LED SHALL BE ILLUMINATED.
   H. ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES.
   I. DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM.
   J. DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S).
   K. RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS AND FIRE SHUTTERS.

GENERAL FIRE ALARM NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE GENERAL CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS. (TYPICAL) ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TOMAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL PANEL AND HEAD END POWER WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
2. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT OR AS NOTED IN NFPA, FIRE ALARM DEVICES SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. VERIFY EXACT HEIGHT WITH ARCHITECT. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED:
   A. MANUAL FIRE PULL STATIONS - MOUNT AT 42" AFF TO THE TOP OF BOX FOR FRONTAL WHEELCHAIR APPROACH; AND 48" AFF FOR SIDE WHEELCHAIR APPROACH. PULL STATIONS SHALL BE LOCATED THROUGHOUT THE PROTECTED AREA SO THAT THEY ARE UNOBSTRUCTED AND ACCESSIBLE; MOUNT WITHIN 5 FT. OF THE EXIT DOORWAY OPENING AT EACH EXIT ON EACH FLOOR; MOUNT ON BOTH SIDES OF GROUP OPENINGS OVER 40 FT. IN WIDTH.
   B. FIRE ALARM AUDIBLE DEVICES - IF CEILING HEIGHTS ALLOW, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 IN. AND BELOW THE FINISHED CEILINGS AT HEIGHTS OF NOT LESS THAN 6 IN. THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED OR RECESSED APPLIANCES. COMPLY WITH NFPA 72, CHAPTER 4.
   C. SOUND PRESSURE LEVEL SHALL EXCEED THE PREVAILING EQUIVALENT SOUND IN THE ROOM BY AT LEAST 15 dbA OR EXCEED ANY MAX SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 dbA.
3. FIRE ALARM VISUAL DEVICES SHALL COMPLY WITH NFPA 72, CHAPTER 4.
   A. VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VALUE ALLOWED BY NFPA TABLE IN ORDER TO INSTALL THE FEWEST NUMBER OF STROBES.
   B. THE LAMP SHALL BE XENON STROBE TYPE OR EQUIVALENT.
   C. THE COLOR SHALL BE CLEAR OR NOMINAL WHITE.
   D. THE MAX. PULSE DURATION SHALL BE TWO TENTHS OF ONE SECOND (0.2 SEC) WITH A MAX. DUTY CYCLE OF 40%. THE PULSE DURATION IS DEFINED AS THE TIME INTERVAL BETWEEN INITIAL AND FINAL POINTS OF 10% MAX. SIGNAL.
   E. THE INTENSITY SHALL BE A MINIMUM 0F 75 CANDELA.
   F. THE FLASH RATE SHALL BE A MIN. OF 1Hz AND MAX. OF 3Hz.
4. VISUAL APPLIANCES SHALL BE PLACED 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. CEILING MOUNTED WERE INDICATED.
5. AT A MINIMUM, VISUAL SIGNALS APPLIANCES SHALL BE PROVIDED IN BUILDINGS AND FACILITIES IN EACH OF THE FOLLOWING AREAS: HALLWAYS, LOBBIES, AND ANY OTHER GENERAL USAGE AREAS.
6. ALL EQUIPMENT AND WORK PERFORMED SHALL COMPLY WITH ALL OF THE CURRENT AND APPLICABLE CODES, RULES, ORDINANCES, REGULATIONS, AND STANDARDS AS INTERPRETED AND ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
7. PROVIDE POWER FOR REMOTE BATTERY SUPPLIES AND BOOSTER PANELS AS NEEDED. FIRE ALARM CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR CIRCUIT.
8. ALL FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS.
9. ALL FIRE ALARM CABLING SHALL BE SUPPORTED IN DEDICATED CABLE SUPPORTS. DO NOT ROUTE IN OR TIE-WRAP DIRECTLY TO THE BUILDING'S STRUCTURE.
10. CONTRACTOR TO INSTALL RELAYS IN ALL KITCHEN HOOD ANSUL SYSTEMS TO NOTIFY MAIN FIRE ALARM PANEL UPON ACTIVATION.
11. ALL NOTIFICATION APPLIANCE CIRCUIT CABLES AND ALL OTHER FIRE ALARM SYSTEM CABLE SHALL HAVE A RED OUTER JACKET.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION FIRE ALARM DEVICES.
13. PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL STUB-OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHINGS TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
14. PROVIDE AND INSTALL STOPPER II PROTECTIVE COVERS WITH A LOCAL ALARM FOR ALL MANUAL PULL STATIONS ON THE ENTIRE PROJECT.
15. CONTRACTOR TO PROVIDE CEILING MOUNTED LED NOTIFICATION DEVICES WITH TEST BUTTON FOR ALL DUCT DETECTORS THAT ARE MOUNTED ABOVE CEILING AND/OR IN LOCATIONS NOT VISIBLE FROM THE FLOOR.
16. ALL FIRE ALARM DEVICES ARE NEW UNLESS NOTED OTHERWISE. CONTRACTOR SHALL VERIFY CAPACITY CAPABILITIES OF EXISTING PANEL AND PROVIDE NEW PANELS WHERE "FACP" PANELS ARE INDICATED ON THE DRAWINGS. CONTRACTOR TO CONNECT NEW DEVICES TO EXISTING FIRE ALARM PANEL IN CTE BUILDING MDF 1807 AND CONFIGURE PANEL FOR NEW DEVICES AND LAYOUT.
17. CONTRACTOR SHALL PROVIDE AND INSTALL A RELAY FOR EACH FIRE/SMOKE DAMPER ON PROJECT. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
18. CONTRACTOR SHALL PROVIDE DUCT DETECTORS ON ALL AIR HANDLING UNITS RATED ABOVE 2,000 CFM AND PER NFPA. PROVIDE DUCT DETECTORS IN BOTH THE HOT AND COLD DECK ON ALL OF THE AHU UNITS. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL AHUs.
19. CONTRACTOR SHALL PROVIDE ALL CABLING AND DEVICES REQUIRED TO PROVIDE THE SHUT-DOWN OF ALL HVAC AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM ENTERING ALARM STATE AND START UP OF ALL AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM BEING RESET TO A NON-ALARM STATE.
20. CONTRACTOR SHALL PROVIDE ALL REQUISITE FIRE ALARM MODULES AND CABLING AS REQUIRED TO PROVIDE CONTROL OF THEATER / AUDITORIUM HOUSE LIGHTS IN ORDER TO BRING THE LIGHTS UP TO 100% IN AN ALARM EVENT. COORDINATE WITH OTHER TRADES.
21. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
22. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.
23. CONTRACTOR SHALL PROVIDE SMOKE DETECTION DEVICES ABOVE ALL PARTIAL CEILING IN ALL CORRIDORS AND OTHER SPACES PER NFPA 72.

SECURITY SYSTEMS LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		INTERIOR PANASONIC I-PRO VIDEO SURVEILLANCE CAMERA. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE CEILING TILE BRIDGE FOR ALL CAMERAS INSTALLED IN LAY-IN CEILING TILE. WALL MOUNTED (INDICATED WITH ADDED FOOT) CAMERAS INSTALLED AT 8' A.F.F. OR 8" BELOW CEILING, (WHICHEVER IS HIGHER ABOVE FLOOR FOR ADEQUATE FIELD OF VIEW) UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR WALL MOUNTED CAMERAS. CONTRACTOR SHALL PROVIDE (1) DATA DROP TO NEAREST IDF ROOM.
		EXTERIOR PANASONIC I-PRO WALL MOUNTED VIDEO SURVEILLANCE CAMERA INSTALLED AT 13' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING. CONTRACTOR SHALL PROVIDE (1) DATA DROP TO NEAREST IDF ROOM.
		WALL MOUNTED MOTION DETECTOR INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING.
		360 DEGREE CEILING MOUNTED MOTION DETECTOR.
	KP	INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER.
	PB	PANIC BUTTON TO BE MOUNTED UNDER COUNTER TOP
	CONT	BOSCH 9512G ACCESS CONTROL / INTRUSION DETECTION PANEL MOUNTED ON WALL IN MAIN DATA CLOSET. ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120V CIRCUIT ON EMERGENCY POWER WITH SURGE PROTECTION TO EACH PANEL. PROVIDE (1) CATEGORY 6 CABLE FOR PANEL ROUTED THROUGH 1" PVC CONDUIT TO APPROPRIATE IDF RACK. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT FOR IP ADDRESS ASSIGNMENT AND NETWORK ACTIVATION. ENSURE COMPATIBILITY WITH EXISTING BOSCH SYSTEMS IN SCHOOL FROM CTE BUILDING MDF 1807.
	CR	ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER.
	DR	DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED).
	DC	DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES.
	VI	INDICATES VIDEO INTERCOM REMOTE STATION WITH INTEGRATED CARD READER. ASSOCIATED 'CR' SHALL BE MOUNTED ON THE FRONT SURFACE OF STATION. PROVIDE BACK-BOX FOR MULLION MOUNTING.
	VM	INDICATES VIDEO INTERCOM MASTER STATION
		CEILING MOUNTED GLASS BREAK DETECTOR.
		WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 8'-0" A.F.F.

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

SECURITY GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL)
2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL).
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.
7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.
11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.
13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.
14. CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.
15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.
16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.

INTERCOM AND CLOCK LEGEND

GROUP	SYMBOL	DESCRIPTION
		NOTE: BASIS OF DESIGN IS BASED OFF OF RAULAND TELECENTER U COMPATIBLE DEVICES. CONTRACTOR SHALL PROVIDE TELECENTER U COMPATIBLE DEVICES. NO EXCEPTIONS.
DEVICES	S	INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. SPEAKERS ARE IP SPEAKERS. PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING. SUBSCRIPT 'M' INDICATES SOUND MASKING SPEAKER INSTALLED BY AV CONTRACTOR.
	S	INDICATES WALL MOUNTED INTERCOM SPEAKER. PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING
	VC	INTERCOM SPEAKER VOLUME CONTROL, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
	CB	INTERCOM CALL BUTTON, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. PROVIDE (1) CAT6 CABLE TO NEAREST IDF.
	xxx	INTERCOM COMMUNICATIONS CONTROL SYSTEM HANDSET. "ACS" INDICATES ADMINISTRATOR CONTROL SYSTEM HANDSET. "MCS" INDICATES MASTER CONTROL SYSTEM HANDSET. "RCS" INDICATES RESCUE AREA CONTROL SYSTEM HANDSET. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
	C	SINGLE FACE DIGITAL CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT 8' A.F.F. UNLESS OTHERWISE NOTED WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. (1) CAT6 CABLE TO NEAREST IDF.
	C C	DOUBLE FACE DIGITAL CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT 8' A.F.F. UNLESS OTHERWISE NOTED WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. (2) CAT6 CABLES TO NEAREST IDF.

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE CLEAR POLYCARBONATE COVER OR WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS.

TECHNOLOGY PLAN GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL).
2. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE TECHNOLOGY CONSULTANT.
3. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, PULL STRINGS, BACK BOXES AND SLEEVES REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER. NOTE THAT CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE TECHNOLOGY CONDUIT AND BACKBOXES ON AND DOWN THE CHASE OF PREFABRICATED DIRTT WALL SYSTEMS.
4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.
6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.
9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND CONSULTANT.
11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES.
12. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. WHERE THE BOTTOM OF JOIST IS MORE THAN 5' ABOVE THE CEILING. THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE ROD TO BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
18. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
19. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
20. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE

TECHNOLOGY SITE PLAN
TS-101

FOR BLUEBEAM LABELING/OCR:

0"
1"

TECHNOLOGY SITE PLAN GENERAL NOTES

A. ALL CONDUITS AND PULL BOXES SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

B. PROVIDE PULL BOX EVERY 250' AND / OR 270 DEGRESS OF RADIUS.

C. ALL IN-GROUND PULL BOXES SHALL BE EQUIPPED WITH A 48" DEEP GRAVEL DRY WELL TO ALLOW FOR DRAINAGE. SEE CIVIL PLANS FOR DETAILS.

D. ALL DATA AND TELECOM UNDERGROUND CONDUITS SHALL BE AT 4 FT. BELOW GRADE IF OPEN TRENCH DUG OR 8 FT. BELOW GRADE IF BORING MACHINE IS USED.

E. PROVIDE BORING OR SAWCUT AND BACKFILL. VERIFY WITH ARCHITECT THE PREFERRED METHOD.

F. ALL CONDUIT PATHWAYS AND PULL BOX LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY PROPER PATHWAY PRIOR TO INSTALLATION.

G. CONTRACTOR IS LIABLE FOR DAMAGE TO ALL EXISTING CABLING, SYSTEMS AND UTILITIES THAT ARE TO REMAIN.

H. TECHNOLOGY CABLING CONTRACTOR SHALL SEAL ALL OPEN CONDUIT ENDS WITH A PERMAGUM SEALING COMPOUND / GUM AFTER CABLING IS INSTALLED.

I. ALL CABLING INSTALLED IN PLENUM SPACES SHALL BE PLENUM RATED OR INSTALLED IN EMT CONDUIT AFTER 50 FEET UPON ENTRANCE INTO THE PLENUM SPACE, OR, THE NON-PLENUM RATED CABLING SHALL BE SPLICED IN AN ENCLOSURE WITH PLENUM RATED CABLING AND EXTENDED TO THE NEAREST IDF / MDF.

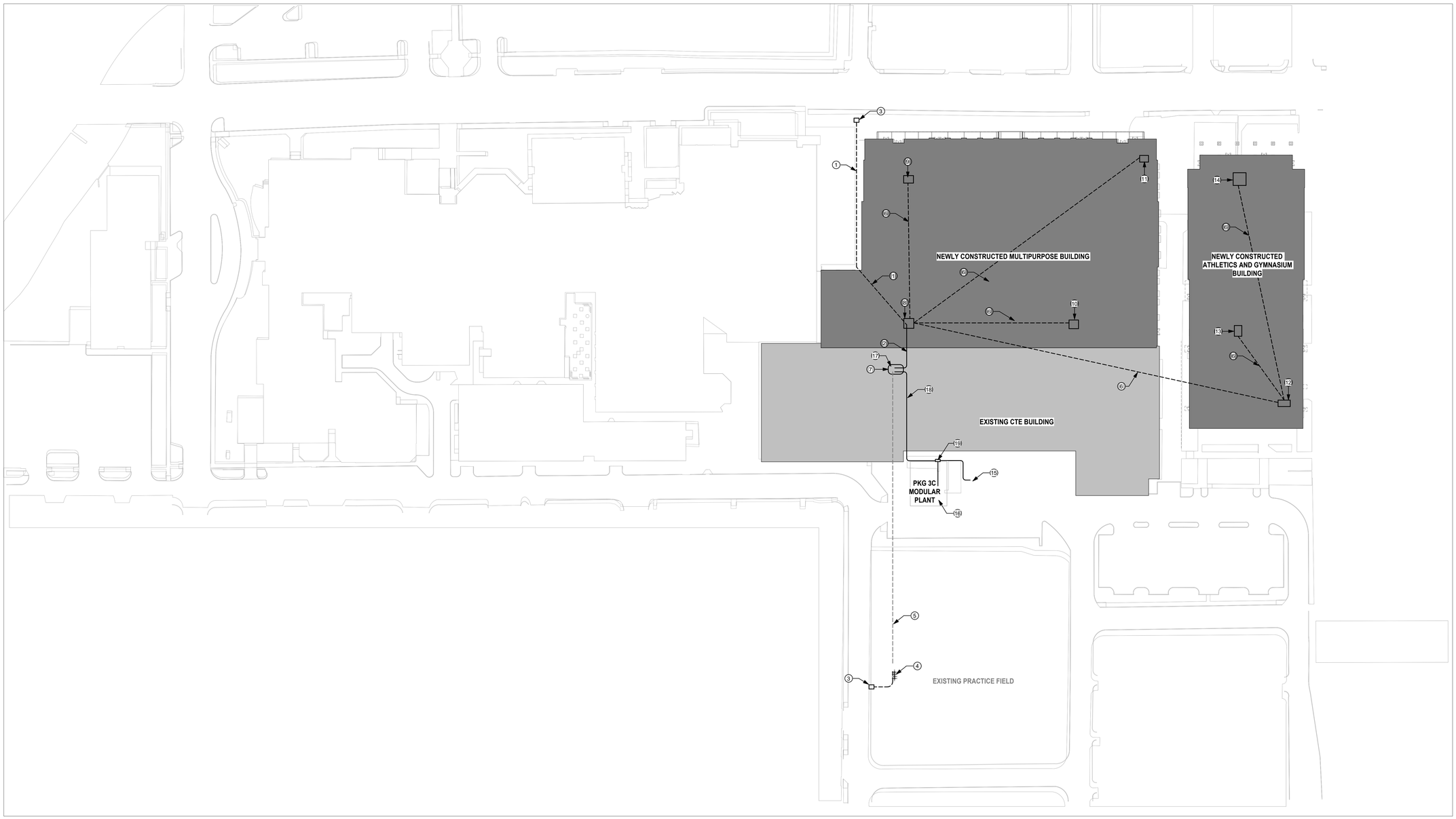
J. PROVIDE LIGHTNING PROTECTION / POWER SURGE PROTECTION / BUILDING ENTRANCE TERMINALS AND PROPER GROUNDING AND BONDING ON ALL METALLIC CABLING ENTERING THE BUILDING FROM AN EXTERIOR, SEPARATE STRUCTURE OR LOCATION.

K. PROVIDE 1 QTY. MAXCELL 3-CELL INNERDUCT IN ALL IN-GROUND CONDUITS, 2 IN. THROUGH 4 IN.

L. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

TECHNOLOGY SITE PLAN KEYED NOTES

1. INDICATES 2 QTY. 4 IN. UNDERGROUND CONDUITS ROUTED FROM EASEMENT TO THE MDF FOR THE OWNER 'S AT&T SERVICE PROVIDER COMMUNICATIONS CABLING THAT SHALL STUB UP INTO FIRST FLOOR ROOM INDICATED. AT&T TELECOM FIBER SHALL BE COORDINATED TO BE ROUTED THROUGH SUB-GRADE PATHWAY AND PLENUM WHEN SUBSTANTIAL PHASE OF CONSTRUCTION ALLOWS FOR COMPLETE PATHWAY TO LAND IN MDF 1807.
2. INDICATES APPROXIMATE PLENUM CHASE CABLING PATHWAY. VERIFY PROPER PATHWAY PRIOR TO INSTALLATION. PROVIDE THROUGH-WALL CONDUIT SLEEVES AS REQUIRED. PROVIDE 1" EMT CONDUIT IN AREAS WITH AN EXPOSED CEILING. CABLING SHALL ROUTE THROUGH THE SKY-BRIDGE CHASE ON FIST LEVEL PLENUM. THIS PATHWAY SHALL BE UTILIZED FOR FIBER ROUTING FROM MDF IN CTE BUILDING TO INDICATED IDF LOCATIONS, AND CONTRACTOR SHALL PROVIDE 1 QTY. 6-STRAND SINGLE-MODE OSP FIBER CABLE.
3. INDICATES 36"X36"X36" CONCRETE PULL BOX INSTALLED FLUSH WITH GRADE TYPICALLY IN GRASS AREA FOR DATA / TELECOM SYSTEMS. PROVIDE WIDE SWEEPING TURNS ON ALL CONDUIT ENTERING AND EXITING BOX AND FOR ALL CONDUIT TURNS ALONG ROUTE. PULL BOX SHALL BE RATED FOR THE TERRAIN IN WHICH IT SHALL BE INSTALLED. DO NOT INSTALL PULL BOXES IN SIDEWALKS. PULL BOXES INSTALLED IN PARKING LOTS OR DRIVEWAYS MUST BE RATED FOR SUCH AN ENVIRONMENT. VERIFY PROPER LOCATION TO PRIOR TO ROUGH-IN. ENSURE ACCESS TO BOX FROM THE OUTSIDE OF FENCE LINE. TYPICAL FOR ALL LOCATIONS SHOWN.
4. INDICATES EXISTING 4 QTY. 4 IN. STUBBED UP UNDERGROUND CONDUITS ROUTED FROM PRACTICE FIELD TO CTE MDF 1807. PATHWAY SHALL BE CONTINUED SUB-GRADE TO EDGE OF STREET BY SERVICE POLE IN ORDER TO PROVIDE SUB-GRADE PATHWAY FOR OWNER'S COMCAST SERVICE PROVIDER COMMUNICATIONS CABLING. CONTRACTOR SHALL CUT AND CONTINUE SUB-GRADE PATHWAY FROM STUBBED UP CONDUITS TO EDGE OF STREET. PROVIDE ANY ADDITIONAL CONCRETE PULL BOXES TO ACCOMMODATE THE CONTINUED CONDUIT PATHWAY.
5. INDICATES APPROXIMATE PATHWAY OF EXISTING SUB-GRADE CONDUIT PATHWAY TO PRACTICE FIELD FROM MDF 1807 IN CTE BUILDING.
6. INDICATES 2 QTY. 4 IN. SUBGRADE CONDUITS ROUTED FROM AND STUBBED UP IN THE INDICATED IDF TO SUBSEQUENT INDICATED IDF FOR FIBER PATHWAY. PROVIDE 1 QTY. 6-STRAND SINGLE-MODE OSP FIBER CABLE.
7. INDICATES APPROXIMATE LOCATION OF MDF 1807 IN EXISTING CTE BUILDING
8. INDICATES APPROXIMATE LOCATION OF IDF 1129.
9. INDICATES APPROXIMATE LOCATION OF IDF 1106.
10. INDICATES APPROXIMATE LOCATION OF IDF 1138
11. INDICATES APPROXIMATE LOCATION OF IDF 1162
12. INDICATES APPROXIMATE LOCATION OF IDF 1545
13. INDICATES APPROXIMATE LOCATION OF IDF 1524.1
14. INDICATES APPROXIMATE LOCATION OF IDF IN IDF/ELEC 1503
15. INDICATES APPROXIMATE LOCATION OF TEMPORARY CHILLER TRAILER.
16. INDICATES APPROXIMATE LOCATION OF MODULAR CHILLER BUILDING.
17. INDICATES APPROXIMATE LOCATION OF EXISTING RAULAND TELECENTER U HEADEND EQUIPMENT AND RACK. HEADEND SHALL BE UTILIZED FOR THE ENTIRETY OF THE SCHOOL BUILDOUT.
18. INDICATES APPROXIMATE PLENUM AND OUTDOOR EXPOSED PATHWAY FOR DATA INTERCONNECTION TO BAS IN MECHANICAL SERVICE YARD. VERIFY PROPER PATHWAY PRIOR TO INSTALLATION. PROVIDE 1 QTY. 1.5" CONDUIT FOR OUTDOOR EXPOSED CABLE PATHWAY. CONTRACTOR SHALL PROVIDE 4 QTY CAT6A DATA CABLES TO MECHANICAL SERVICE YARD BAS ENDPOINTS. COORDINATE TO VERIFY EXACT LOCATIONS OF ENDPOINTS INCLUDING PATHWAY TO TEMPORARY CHILLERS PLACED PLAN-EAST OF MODULAR CHILLER BUILDING.
19. INDICATES APPROXIMATE LOCATION OF SURFACE MOUNTED 8X8X4 NEMA4 PULL BOX FOR ROUTING OF DATA CABLING INTO MODULAR CHILLER BUILDING AND ROUTING TO TEMPORARY CHILLER LOCATION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.



1 **TECHNOLOGY SITE PLAN**
SCALE: 1" = 50'-0"

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LEAF ENGINEERS

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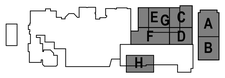

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SITE PLAN

TS-101

0"

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1ST FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN

TF-101A

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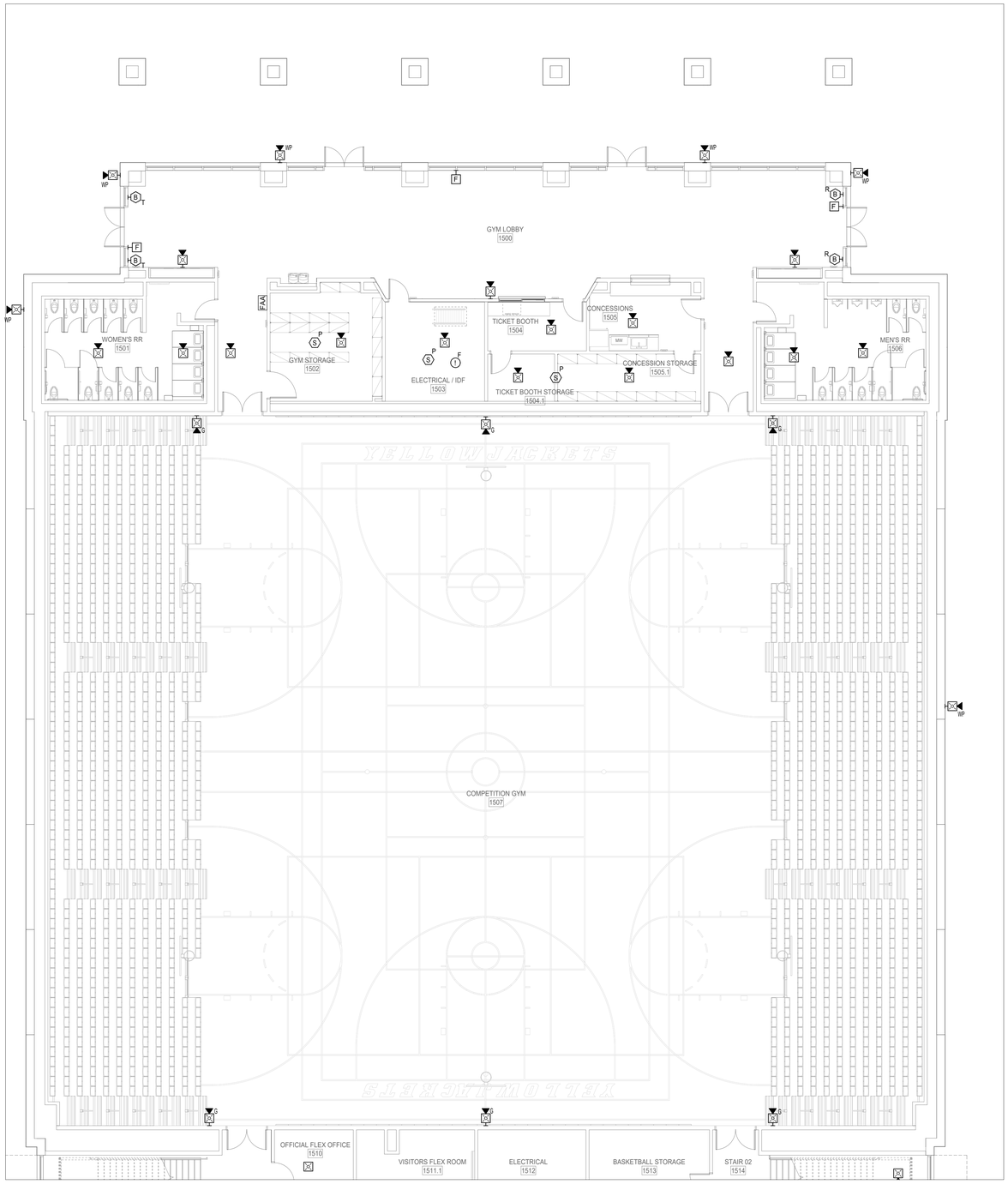

1 **1ST FLOOR FIRE ALARM PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

(#) FIRE ALARM PLAN KEYED NOTES

1. INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE POSSIBLE.
2. INDICATES APPROXIMATE LOCATION OF FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE AVAILABLE.
3. INDICATED DETECTORS SHALL BE MOUNTED IN MAIN STREET HIGH CEILING. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
5. INDICATED RELAY IS FOR CONTROL/SHUTOFF OF DELTA-T WALL CONTROLLER FOR DESTRAT FANS IN MP SPACE 1100.

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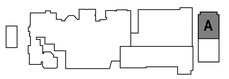

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
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1ST FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN

TF-101A

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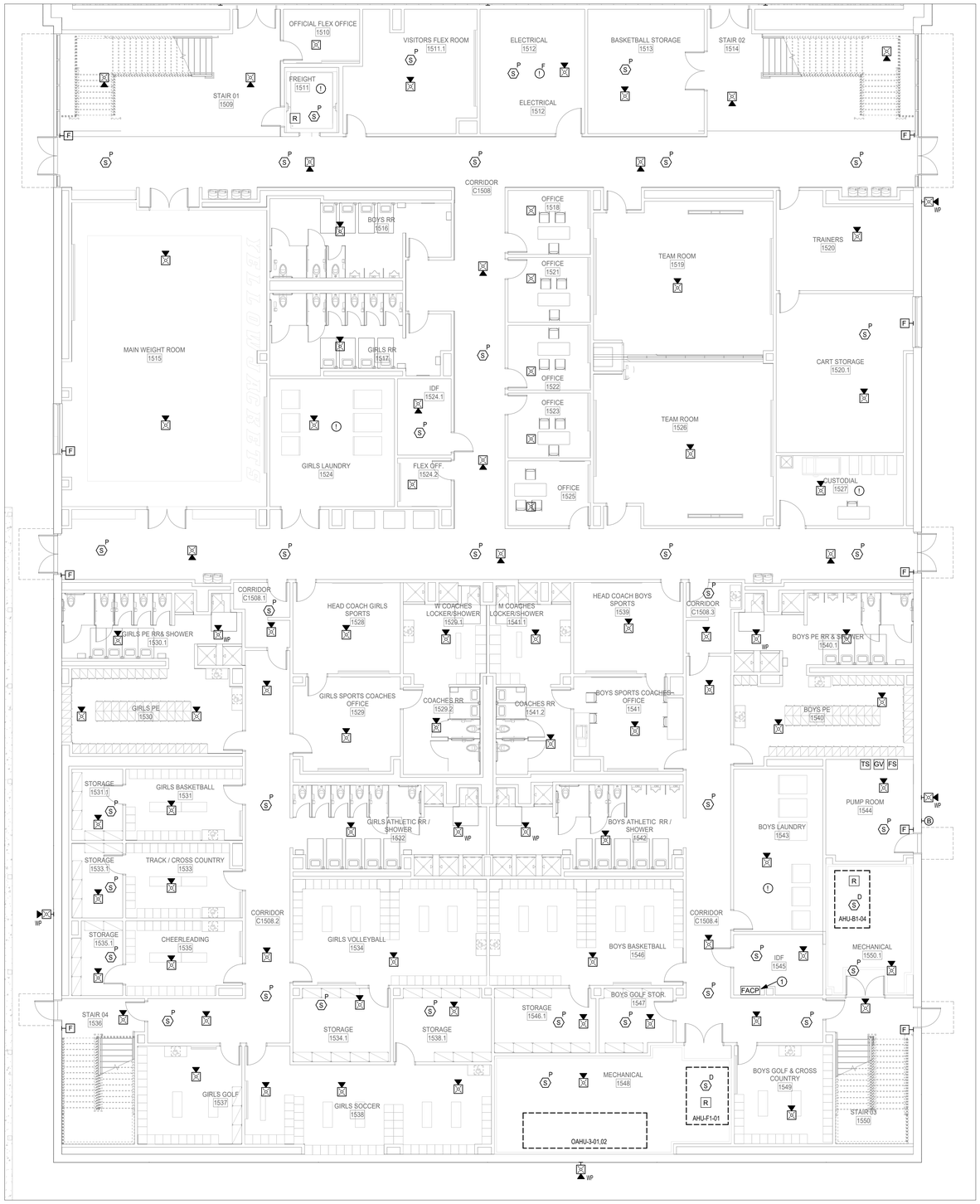

1 1ST FLOOR FIRE ALARM PLAN - AREA B NEW GYM FLOOR PLAN

SCALE: 1/8" = 1'-0"

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KEY PLAN

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STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

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DATE	PROJECT NUMBER
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1ST FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN

TF-101B

1ST FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN
TF-101B
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1"

1ST FLOOR FIRE ALARM PLAN - AREA C - MP FACILITY FLOOR PLAN
TF-101C
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FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

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G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

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1 **1ST FLOOR FIRE ALARM PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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1ST FLOOR FIRE ALARM PLAN - AREA C - MP FACILITY FLOOR PLAN

TF-101C

0"
1"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

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C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

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E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

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G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

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1 1ST FLOOR FIRE ALARM PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN
TF-101D
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KEY PLAN
NORTH: PLAN TRUE

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61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

TF-101D

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN
TF-101E

FOR BLUEBEAM LABELING/DOOR:



1 1ST FLOOR FIRE ALARM PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

(#) FIRE ALARM PLAN KEYED NOTES

1. INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE POSSIBLE.
2. INDICATES APPROXIMATE LOCATION OF FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE AVAILABLE.
3. INDICATED DETECTORS SHALL BE MOUNTED IN MAIN STREET HIGH CEILING. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
5. INDICATED RELAY IS FOR CONTROL/SHUTOFF OF DELTA-T WALL CONTROLLER FOR DESTRAT FANS IN MP SPACE 1100.

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LEAF ENGINEERS

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

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1ST FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN

TF-101E

Plot Stamp:
12/3/2025 5:36:22 PM

0"

1"

1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-101F

FOR BLUEBEAM LABELING/DCR:

FIRE ALARM PLAN GENERAL NOTES

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1 1ST FLOOR FIRE ALARM PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

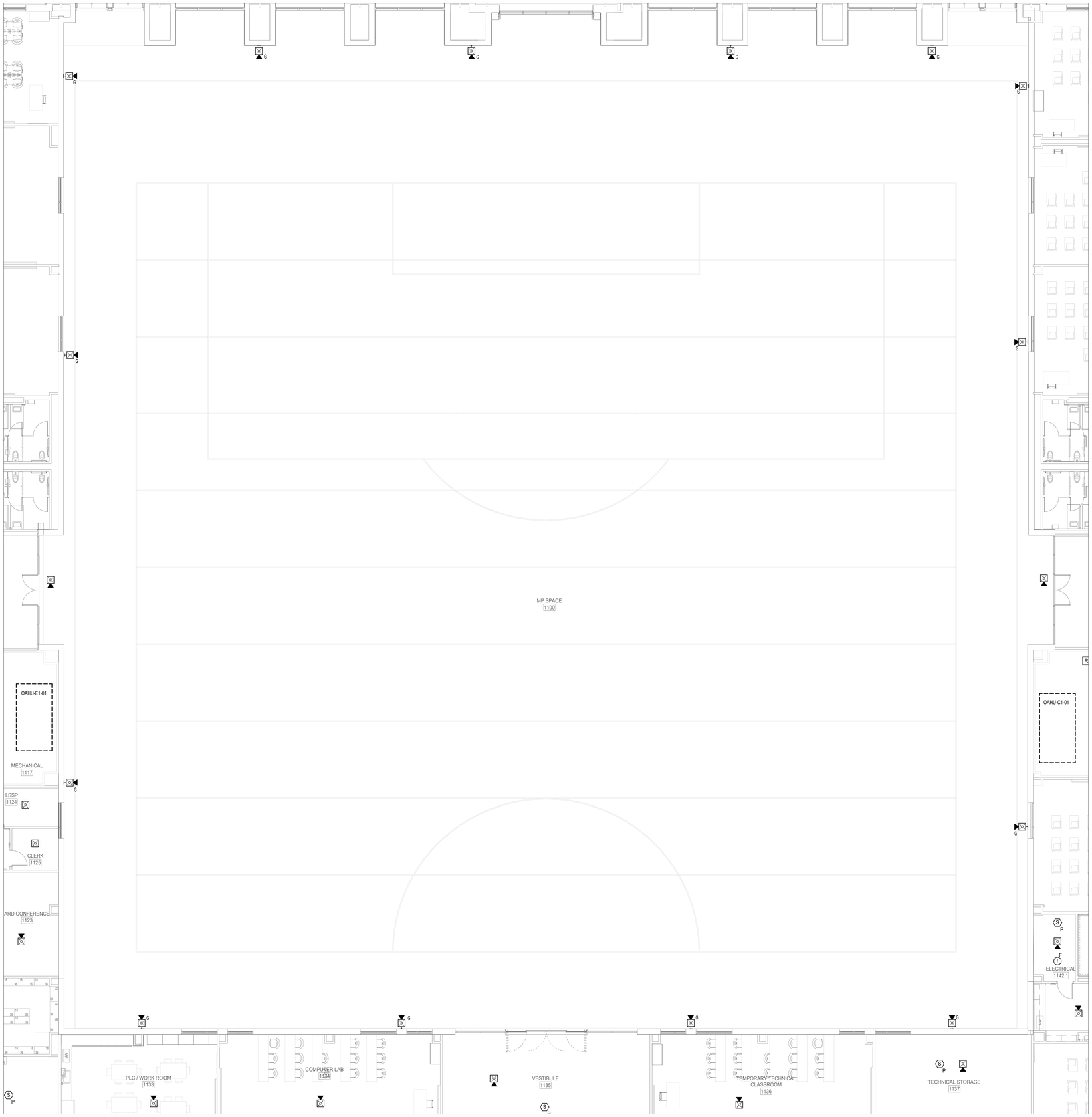
No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-101F

1ST FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN
TF-101G
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR FIRE ALARM PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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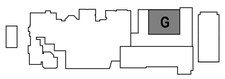

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN

TF-101G

Plot Stamp:
12/3/2025 5:36:28 PM

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN
TF-101H
FOR BLUEBEAM LABELING/DOCR:



1 1ST FLOOR FIRE ALARM PLAN - AREA H MODULAR CENTRAL PLANT FLOOR PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

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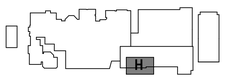

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: REN

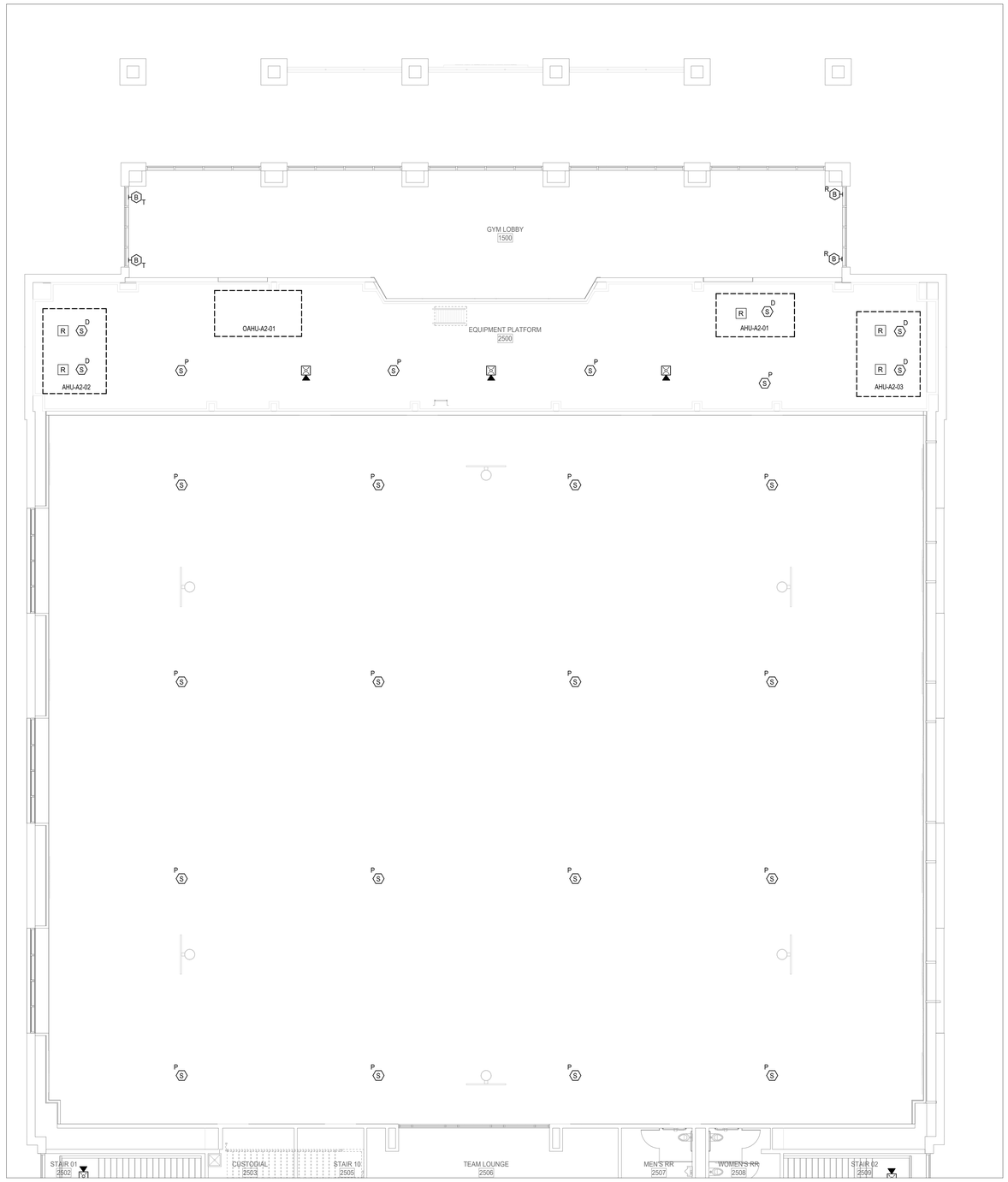
1ST FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN

TF-101H

Plot Stamp:
12/3/2025 5:36:30 PM

0"
1"

2ND FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN
TF-102A
FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR FIRE ALARM PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

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A

KEY PLAN
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PROFESSIONAL ENGINEER
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LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

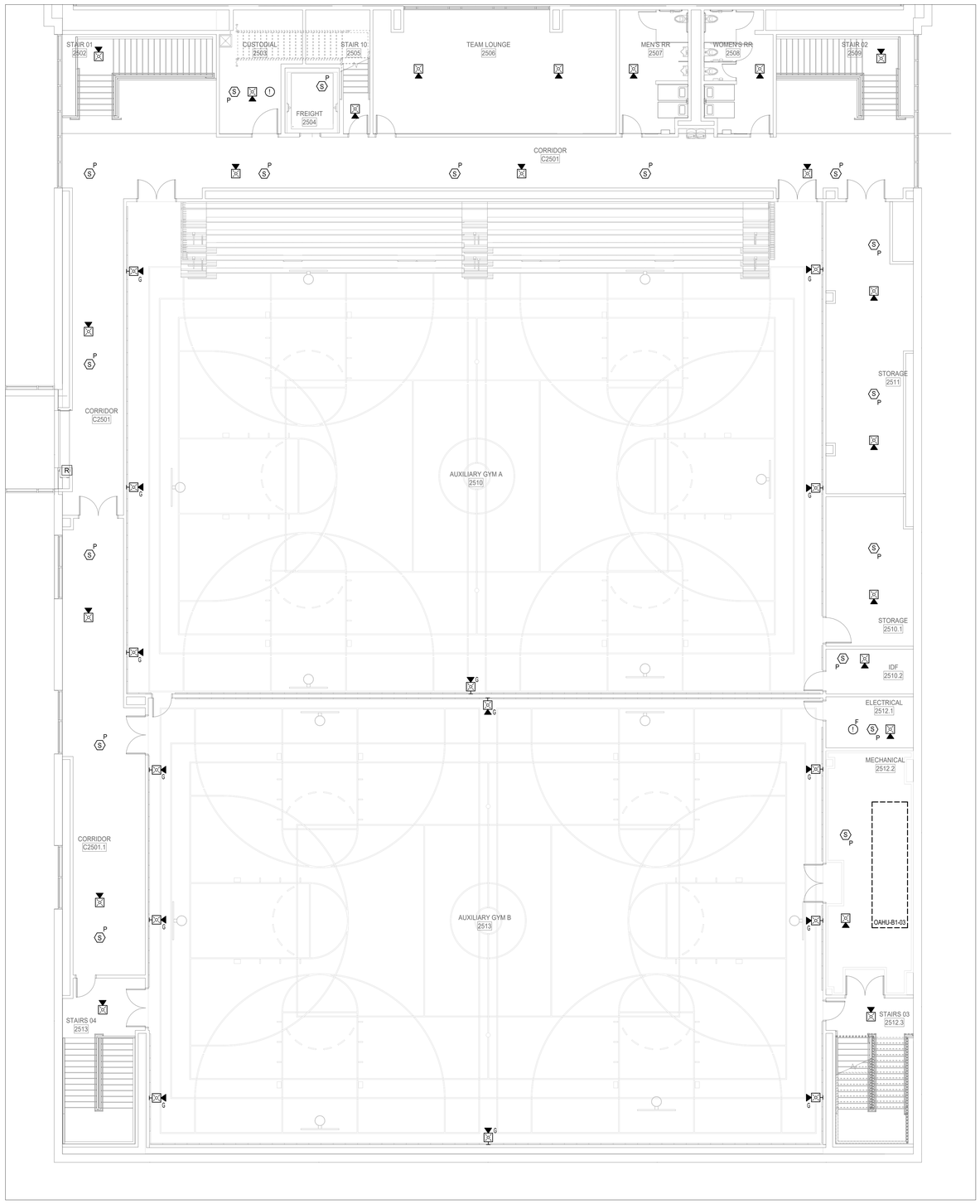
2ND FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN

TF-102A

Plot Stamp:
12/3/2025 5:36:32 PM

0"
1"

2ND FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN
TF-102B
FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR FIRE ALARM PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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61525
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PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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2ND FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN

TF-102B

Plot Stamp:
12/3/2025 5:36:36 PM

0"
1"

2ND FLOOR FIRE ALARM PLAN - AREA C - MP FACILITY FLOOR PLAN
TF-102C
FOR BLUEBEAM LABELING/DOCR:

FIRE ALARM PLAN GENERAL NOTES

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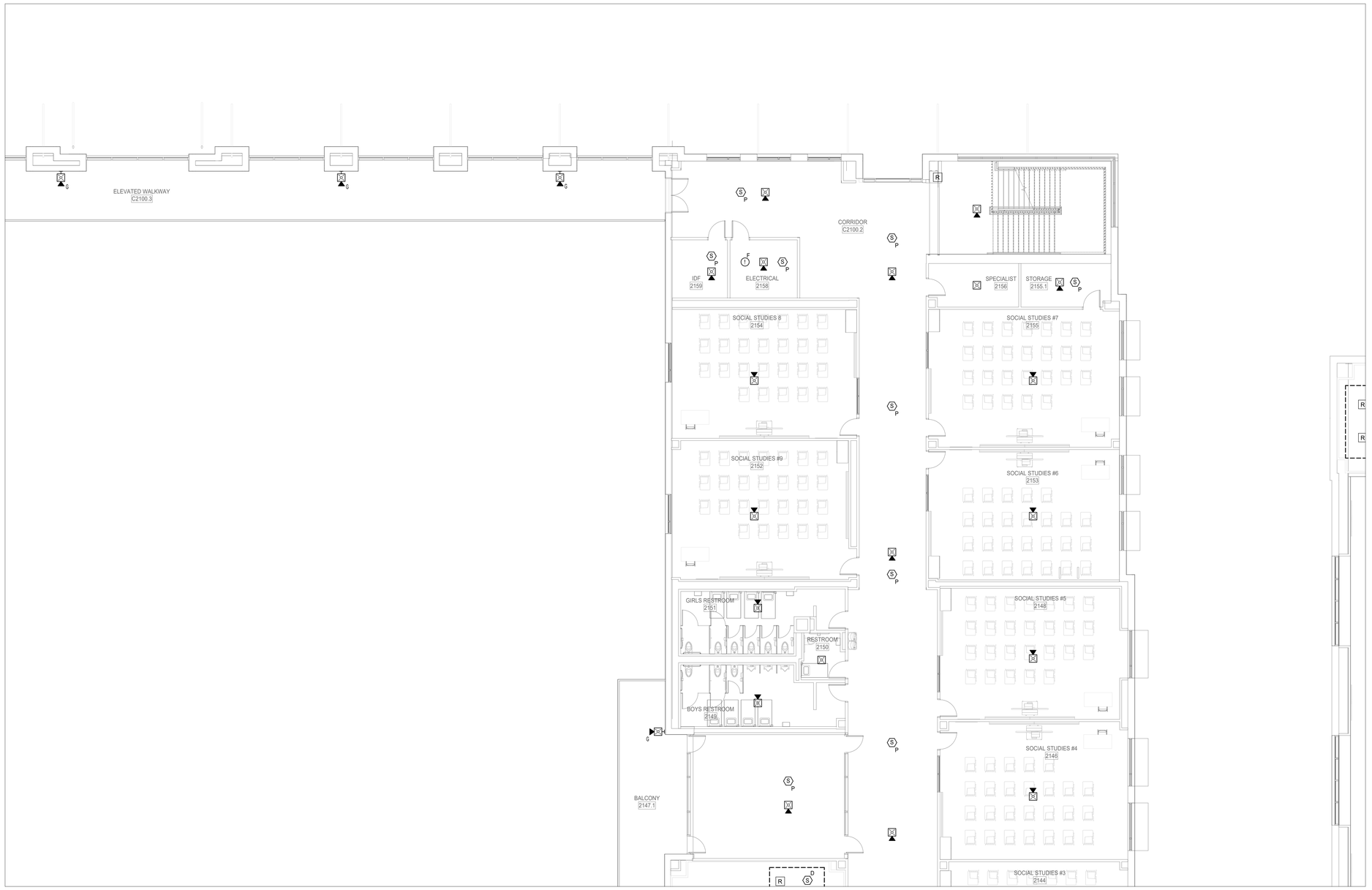

1 **2ND FLOOR FIRE ALARM PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:36:41 PM

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C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA C - MP FACILITY FLOOR PLAN

TF-102C

0"

1"

FIRE ALARM PLAN GENERAL NOTES

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1 **2ND FLOOR FIRE ALARM PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

2ND FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN
TF-102D
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
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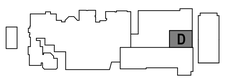
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16072

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

TF-102D

0"
1"

2ND FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN
TF-102E
FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR FIRE ALARM PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

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F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

(#) FIRE ALARM PLAN KEYED NOTES

1. INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE POSSIBLE.
2. INDICATES APPROXIMATE LOCATION OF FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE AVAILABLE.
3. INDICATED DETECTORS SHALL BE MOUNTED IN MAIN STREET HIGH CEILING. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
5. INDICATED RELAY IS FOR CONTROL/SHUTOFF OF DELTA-T WALL CONTROLLER FOR DESTRAT FANS IN MP SPACE 1100.

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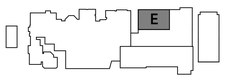
HOUSTON, TX
713-865-0008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN

TF-102E

Plot Stamp:
12/3/2025 5:36:51 PM

0"

1"

2ND FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-102F

FOR BLUEBEAM LABELING/DOCR:

FIRE ALARM PLAN GENERAL NOTES

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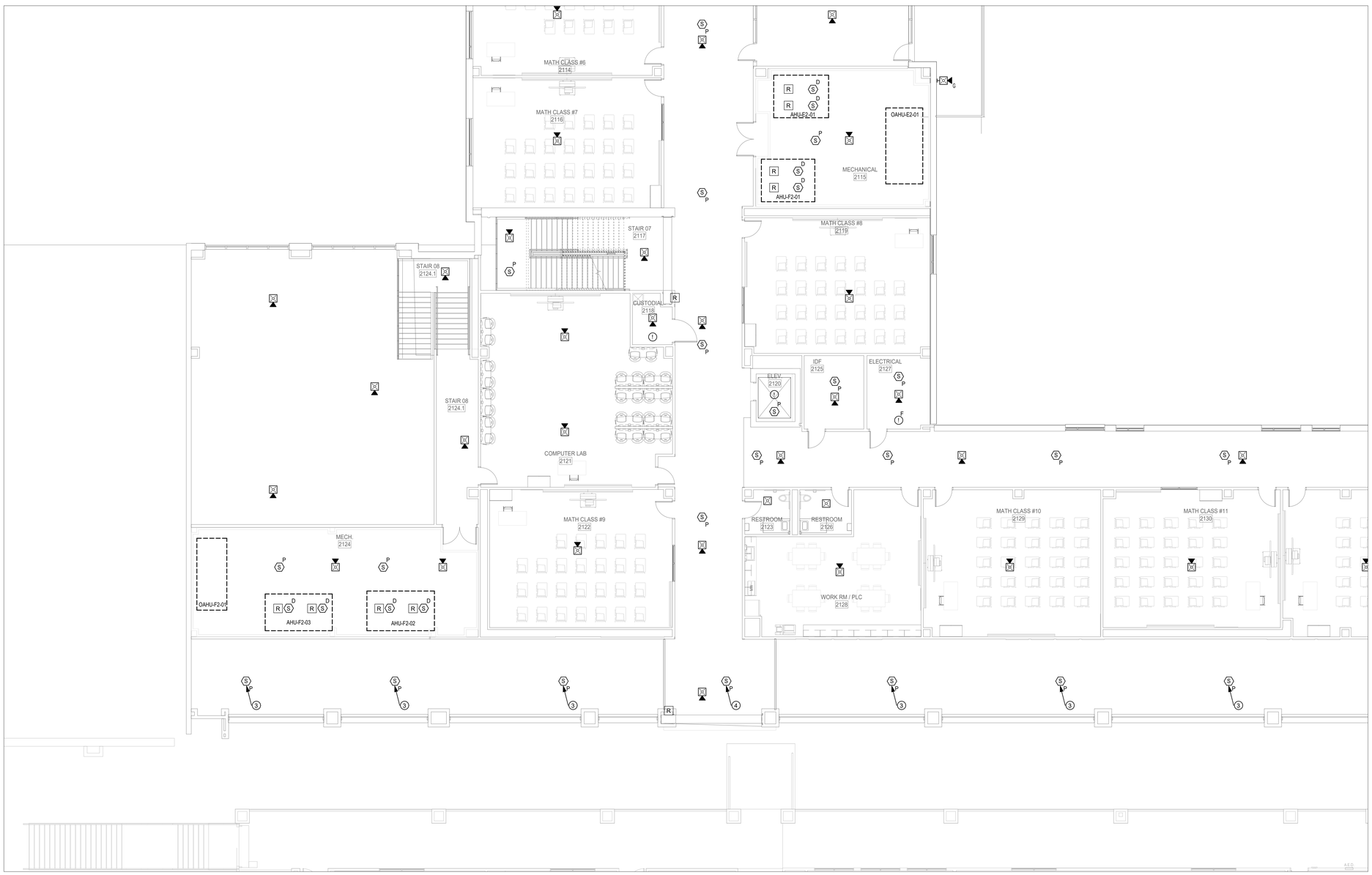

1 **2ND FLOOR FIRE ALARM PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:36:55 PM

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LEAF ENGINEERS

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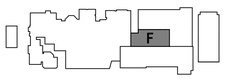
Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

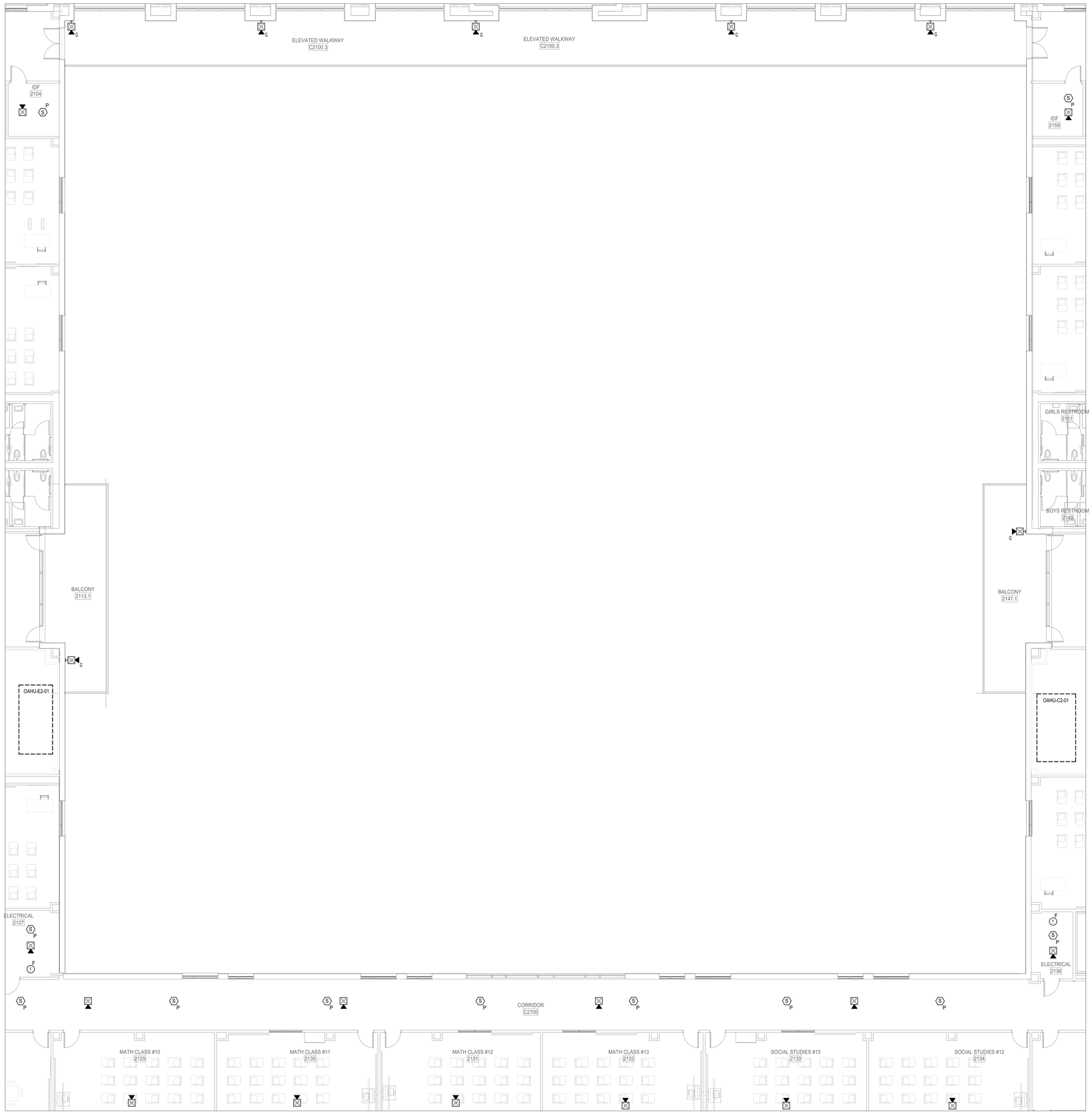
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-102F

0"
1"

2ND FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN
TF-102G
FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR FIRE ALARM PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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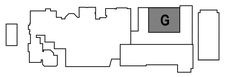
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
(ONAL)
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN

TF-102G

Plot Stamp:
12/3/2025 5:37:00 PM

0"

1"

3RD FLOOR FIRE ALARM PLAN - GYM & MP MEZZANINE FLOOR PLANS

TF-103

FOR BLUEBEAM LABELING/OCR:

FIRE ALARM PLAN GENERAL NOTES

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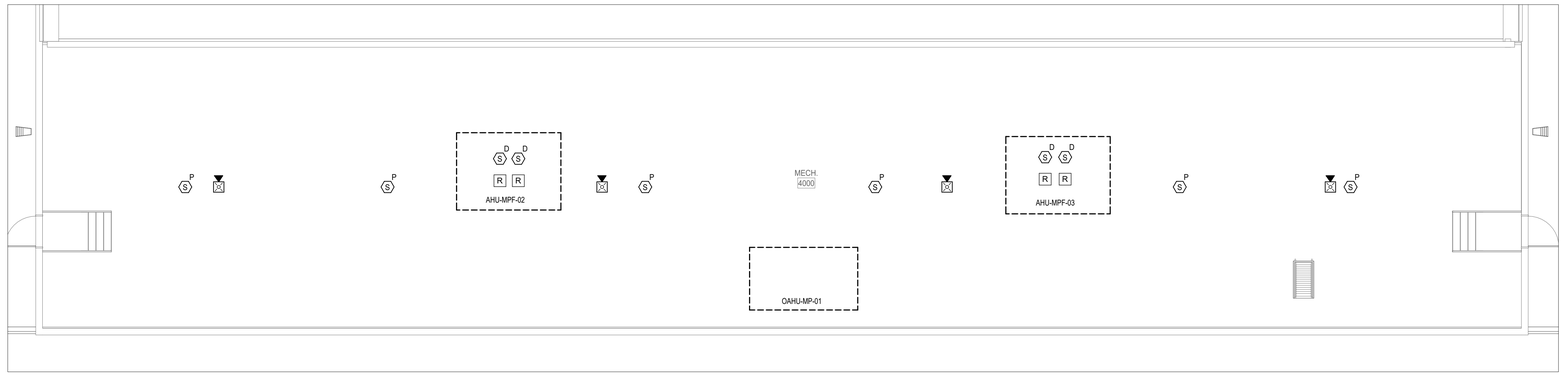
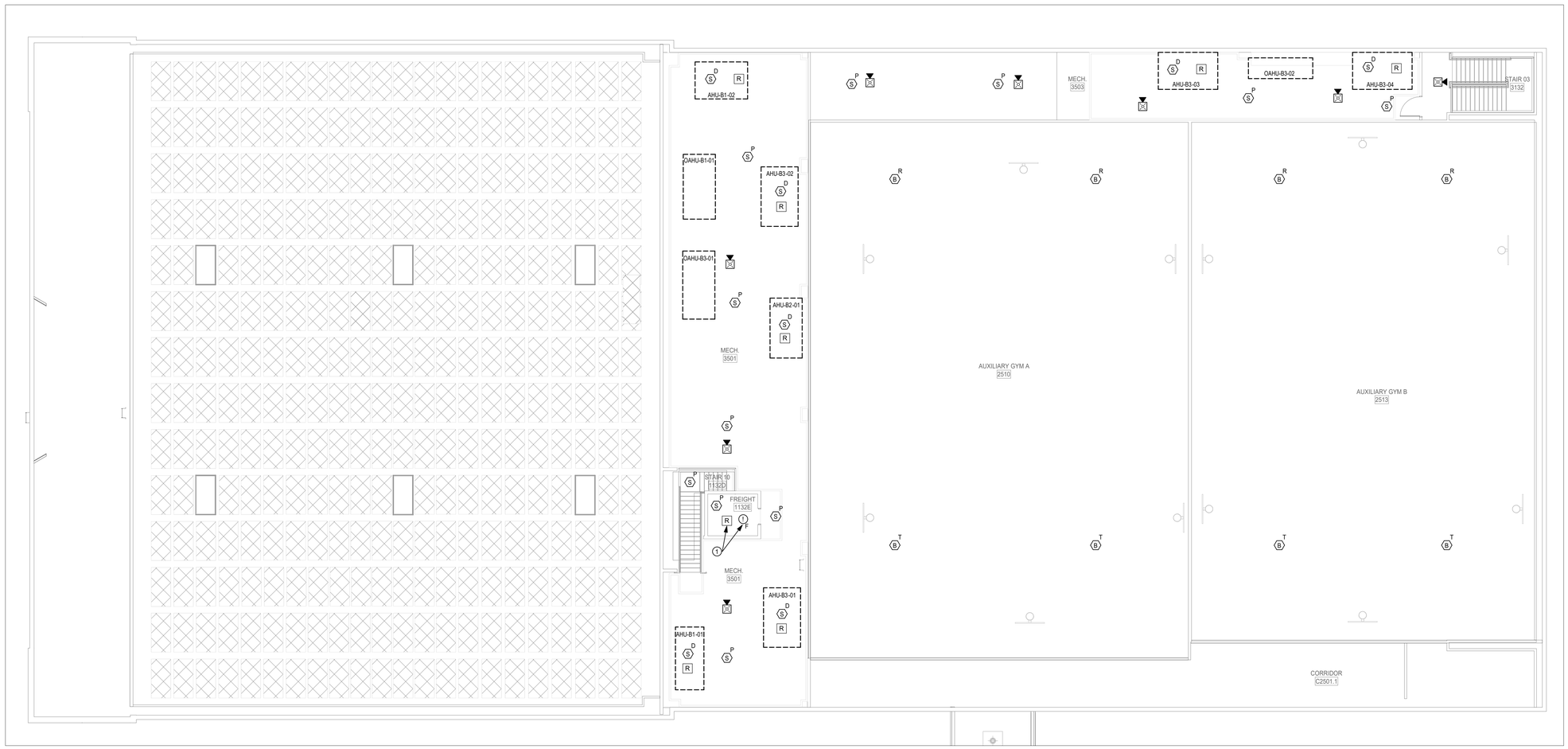


2 MULTIPURPOSE ENLARGED LEVEL 3 BOD MEZZANINE FIRE ALARM (PLAN PLAN SOUTH ABOVE MAIN STREET)

SCALE: 1/8" = 1'-0"



1 3RD FLOOR FIRE ALARM PLAN - NEW GYM OVERALL FLOOR PLAN

SCALE: 1" = 10'-0"

Plot Stamp:
12/3/2025 5:37:03 PM

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LEAF ENGINEERS

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
ONAL

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - GYM & MP MEZZANINE FLOOR PLANS

TF-103

0"
1"

3RD FLOOR FIRE ALARM PLAN - AREA C - MP FACILITY FLOOR PLAN
TF-103C
FOR BLUEBEAM LABELING/DOCR:

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

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1 3RD FLOOR FIRE ALARM PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - AREA C - MP FACILITY FLOOR PLAN

TF-103C

Plot Stamp:
12/3/2025 5:37:07 PM

0"
1"

3RD FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN
TF-103D
FOR BLUEBEAM LABELING/DOCR:

FIRE ALARM PLAN GENERAL NOTES

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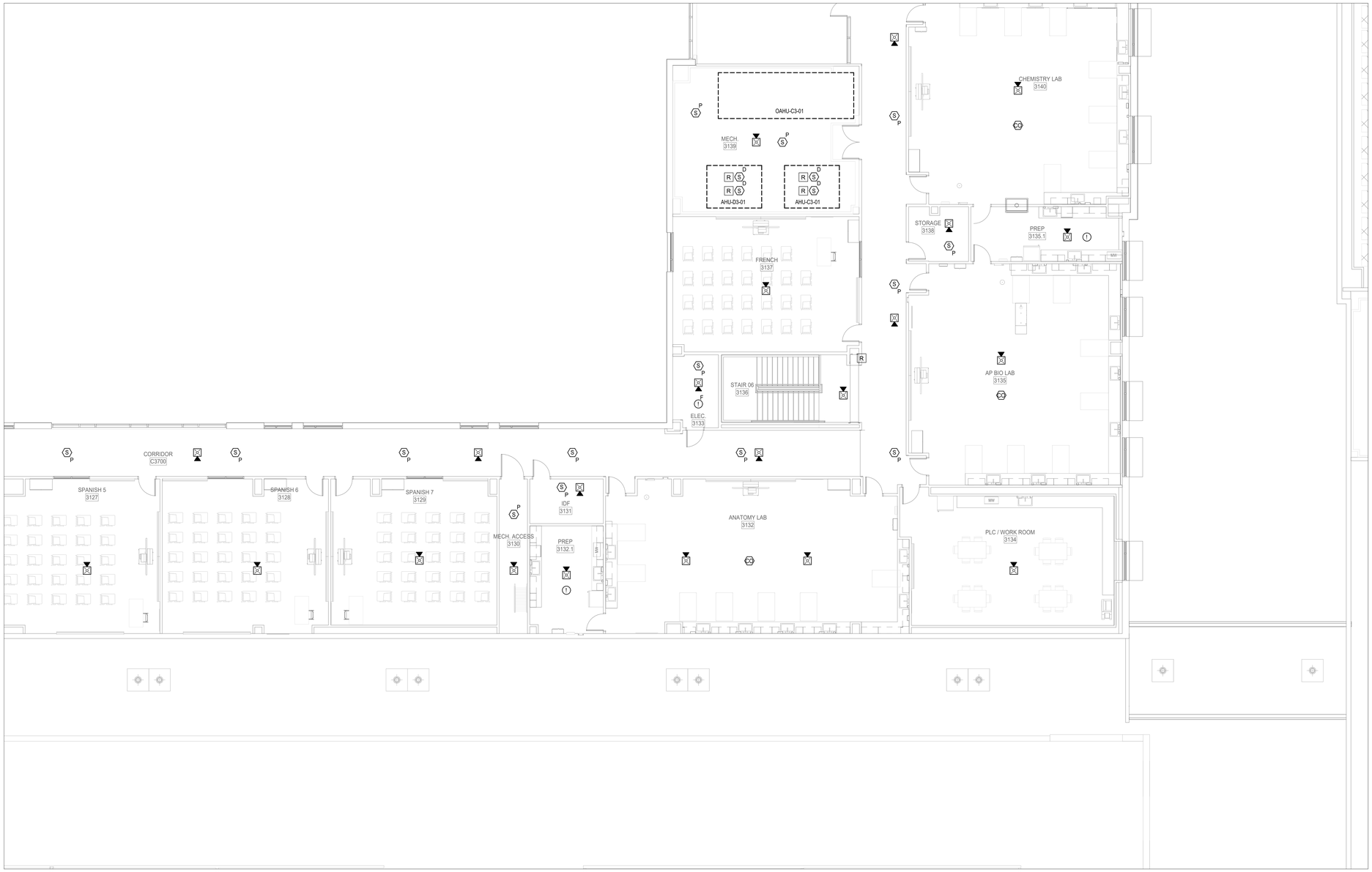

1 **3RD FLOOR FIRE ALARM PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:37:11 PM

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LEAF ENGINEERS

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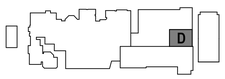


KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

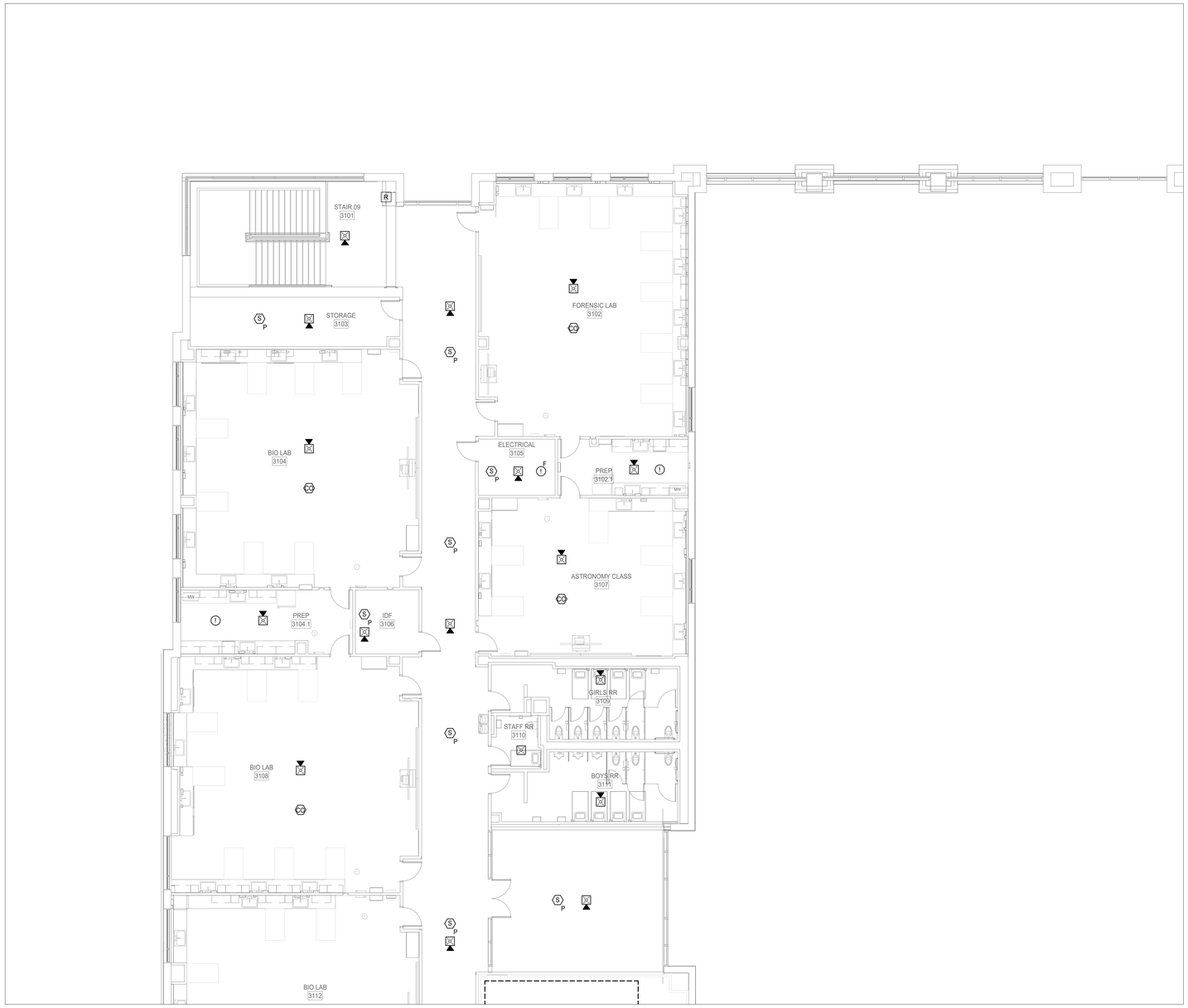
No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

TF-103D

3RD FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN
TF-103E
FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR FIRE ALARM PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Galena Park, TX 77547

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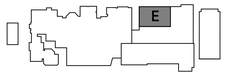

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

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DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN

TF-103E

Plot Stamp:
12/3/2025 5:37:15 PM

0"
1"

3RD FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN
TF-103F
FOR BLUEBEAM LABELING/DOOR:

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

(#) FIRE ALARM PLAN KEYED NOTES

1. INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE POSSIBLE.
2. INDICATES APPROXIMATE LOCATION OF FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE AVAILABLE.
3. INDICATED DETECTORS SHALL BE MOUNTED IN MAIN STREET HIGH CEILING. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
5. INDICATED RELAY IS FOR CONTROL/SHUTOFF OF DELTA-T WALL CONTROLLER FOR DESTRAT FANS IN MP SPACE 1100.



1 3RD FLOOR FIRE ALARM PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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1000 Keene St.
Galena Park, TX 77547
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Galena Park ISD

F

KEY PLAN
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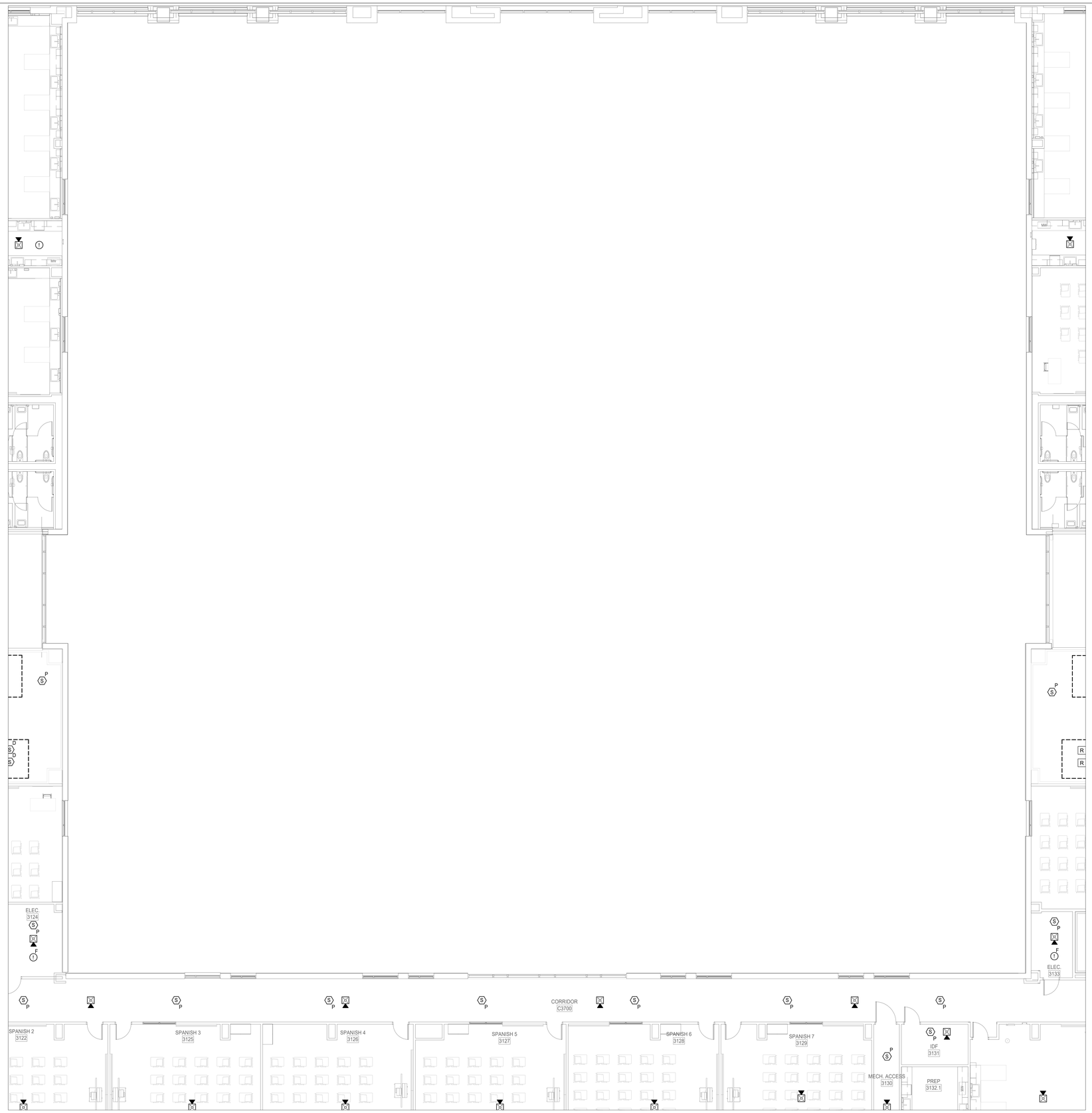
DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-103F

3RD FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN
TF-103G
FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR FIRE ALARM PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

FIRE ALARM PLAN KEYED NOTES

1. INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE POSSIBLE.
2. INDICATES APPROXIMATE LOCATION OF FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE AVAILABLE.
3. INDICATED DETECTORS SHALL BE MOUNTED IN MAIN STREET HIGH CEILING. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
5. INDICATED RELAY IS FOR CONTROL/SHUTOFF OF DELTA-T WALL CONTROLLER FOR DESTRAT FANS IN MP SPACE 1100.

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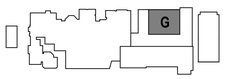

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DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - AREA G - MP FACILITY FLOOR PLAN

TF-103G

Plot Stamp:
12/3/2025 5:37:24 PM

0"

1"

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

(#) FIRE ALARM PLAN KEYED NOTES

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4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
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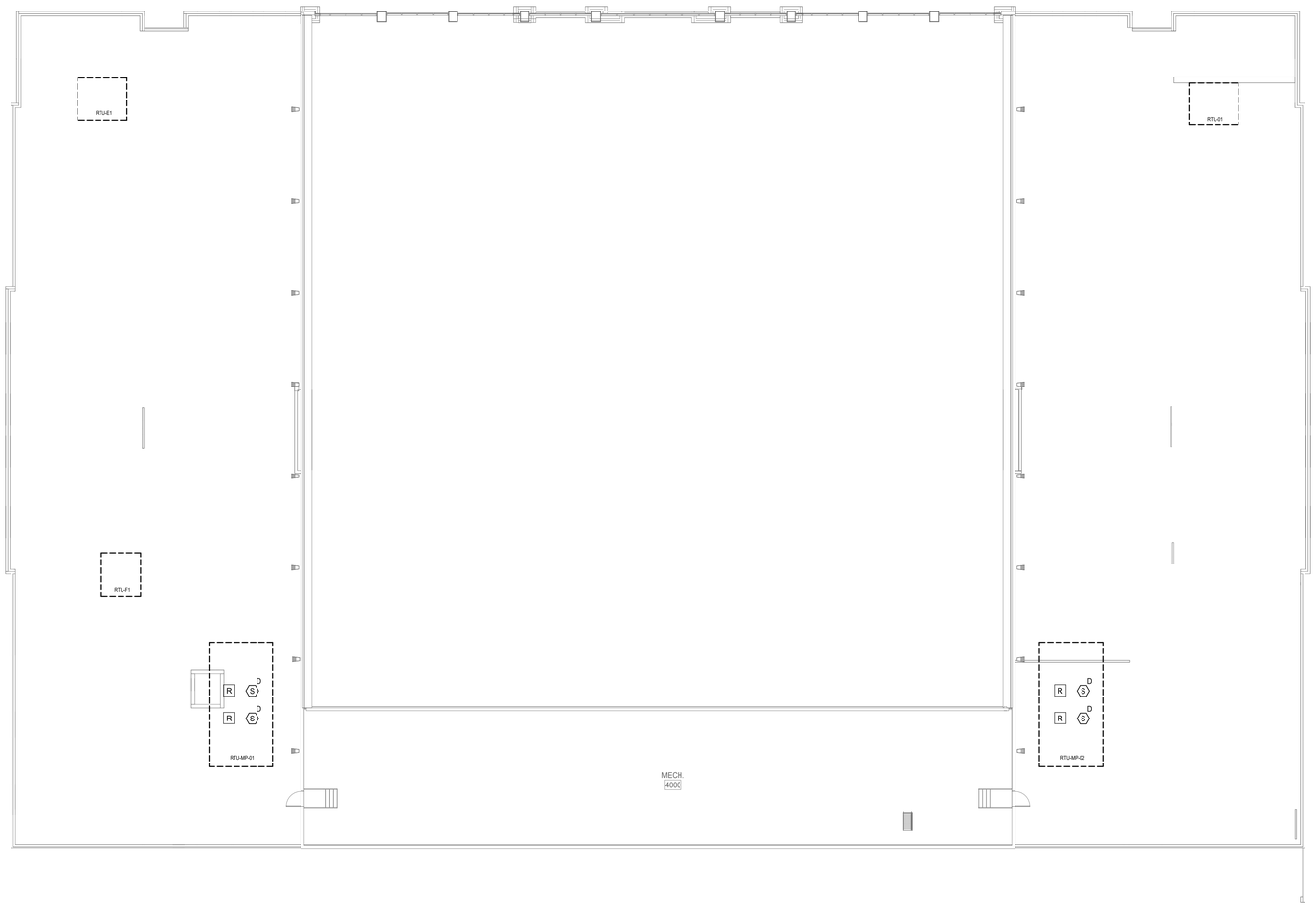

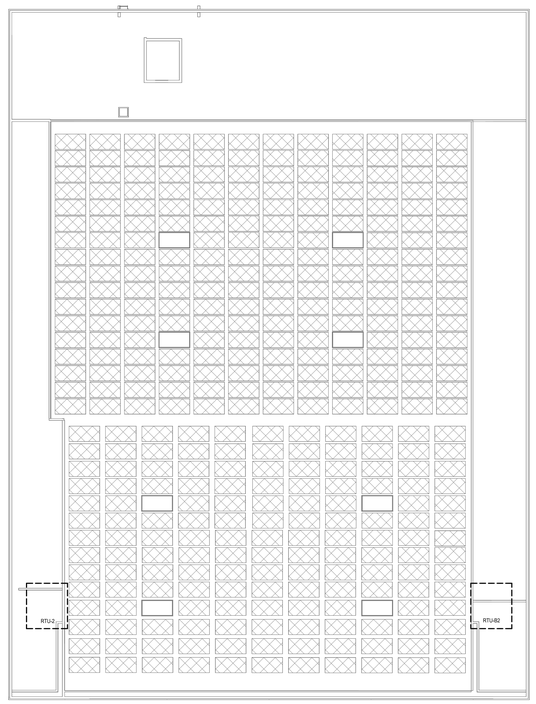

1 MULTIPURPOSE ENLARGED LEVEL 3 BOD MEZZANINE FIRE ALARM (PLAN PLAN SOUTH ABOVE MAIN STREET) Copy 1
SCALE: 1/16" = 1'-0"

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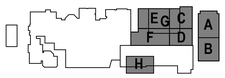

KEY PLAN

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STATE OF TEXAS
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61525
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PROFESSIONAL ENGINEER
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DRAWING HISTORY

No.	Description	Date

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ROOFTOP BOD FIRE ALARM PLAN - GYM & MP MEZZANINE ROOF PLANS

TF-104

ROOFTOP BOD FIRE ALARM PLAN - GYM & MP MEZZANINE ROOF PLANS
TF-104
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/3/2025 5:37:27 PM

0"

1"

1ST FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN

TN-101

FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY OVERALL PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLING, PATCH PANELS, JACKS, FACEPLATES, LABELING, AND TESTING FOR A COMPLETE TELECOMMUNICATIONS SYSTEM AS INDICATED ON FLOOR PLANS AND RISER DIAGRAMS.

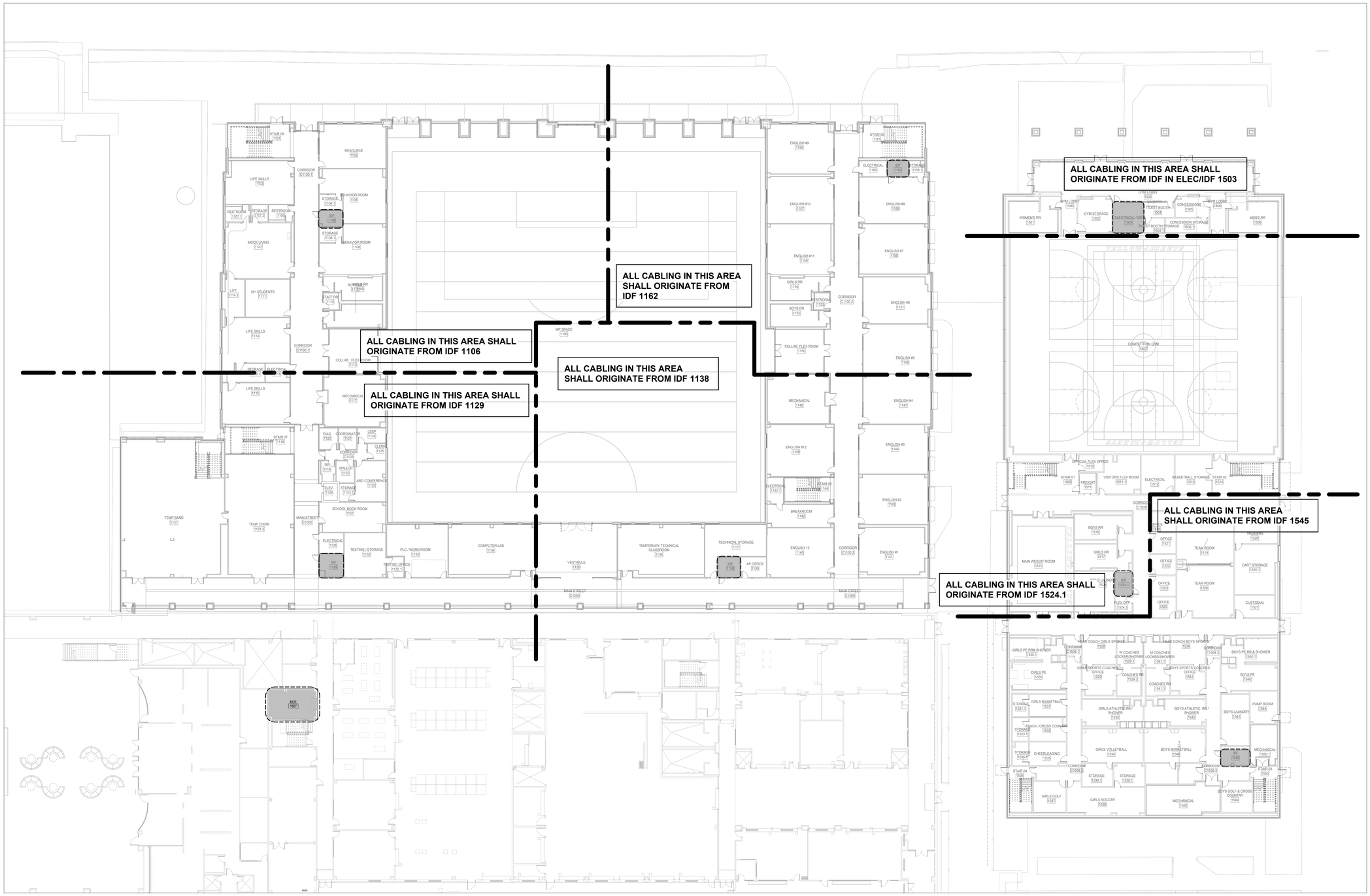
C. CABLING SHALL BE ROUTED FROM MDF TO EACH IDF AND FROM IDFs TO TELECOM OUTLETS. ROUTING IS DIAGRAMMATIC — CONTRACTOR SHALL FIELD VERIFY PATHWAYS AND COORDINATE WITH ARCHITECTURAL AND MEP CONDITIONS PRIOR TO INSTALLATION.

D. ALL CABLING SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA STANDARDS AND LOCAL CODES. PLENUM-RATED CABLE SHALL BE USED IN PLENUM SPACES UNLESS OTHERWISE INSTALLED IN EMT CONDUIT.

E. CONTRACTOR SHALL LABEL ALL CABLES, PATCH PANELS, AND JACKS PER PROJECT STANDARDS AND PROVIDE CERTIFIED TEST RESULTS TO DESIGN ENGINEER FOR REVIEW.

F. ALL MDF AND IDF ROOMS SHALL BE LEFT CLEAN AND ORGANIZED AT PROJECT COMPLETION. CABLE SLACK SHALL BE NEATLY COILED AND SECURED ABOVE RACKS OR WITHIN DESIGNATED MANAGEMENT HARDWARE.

G. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CABLING AND TELECOM INFRASTRUCTURE DURING CONSTRUCTION. DAMAGE TO EXISTING OR NEW CABLING SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



1 **1ST FLOOR TECHNOLOGY PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN**
SCALE: 1" = 20'-0"

Plot Stamp:
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KEY PLAN

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61525
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PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16072

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DATE	PROJECT NUMBER
December 5, 2025	240539

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No.	Description	Date

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1ST FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN

TN-101

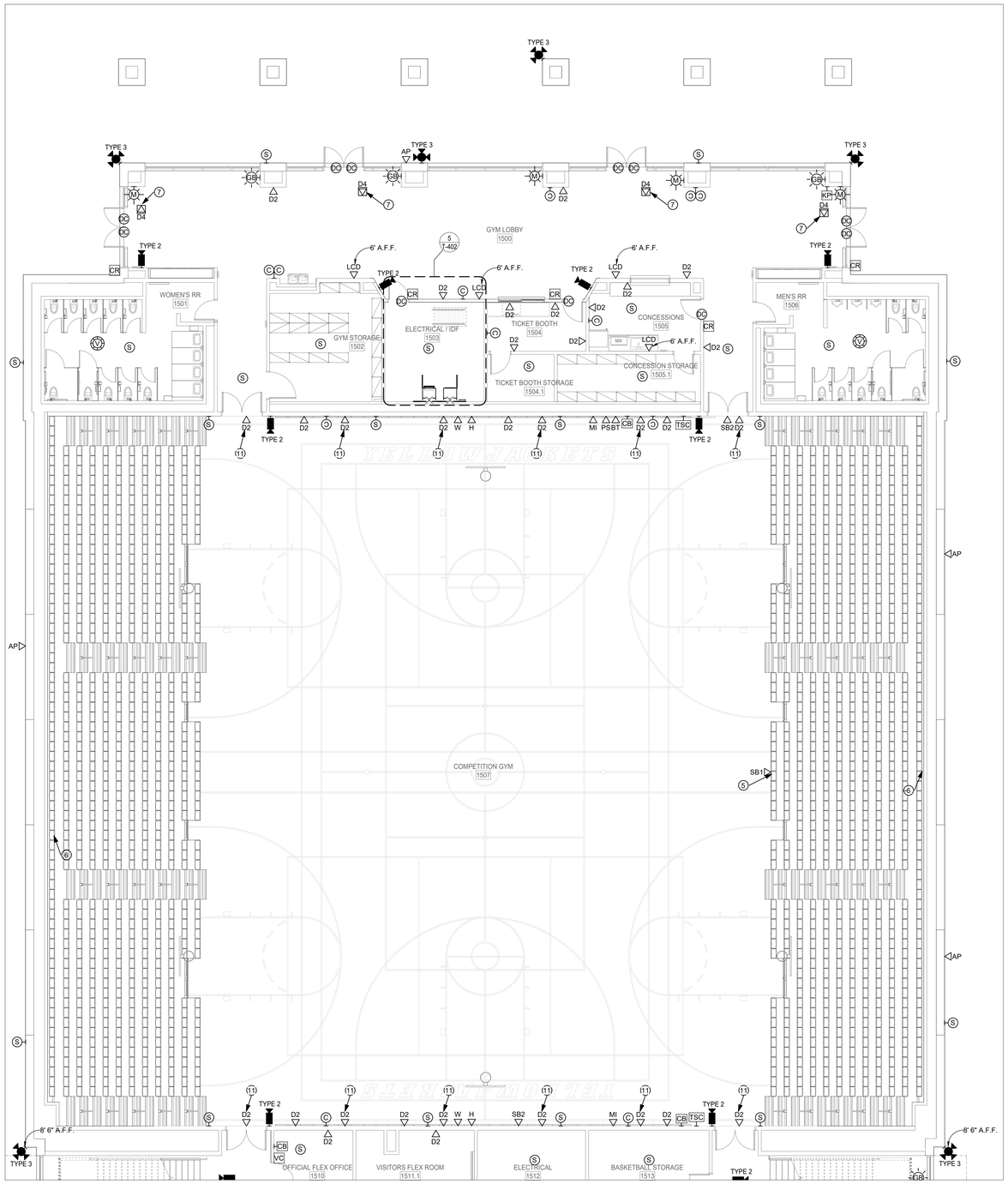
0"

1"

1ST FLOOR TECHNOLOGY PLAN - AREA A - GYM FLOOR PLAN

TN-101A

FOR BLUEBEAM LABELING/DOOR:



1 1ST FLOOR TECHNOLOGY PLAN - AREA A NEW GYM FLOOR PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

Ⓗ TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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KEY PLAN

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December 5, 2025
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December 5, 2025	240539

DRAWING HISTORY

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DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA A - GYM FLOOR PLAN

TN-101A

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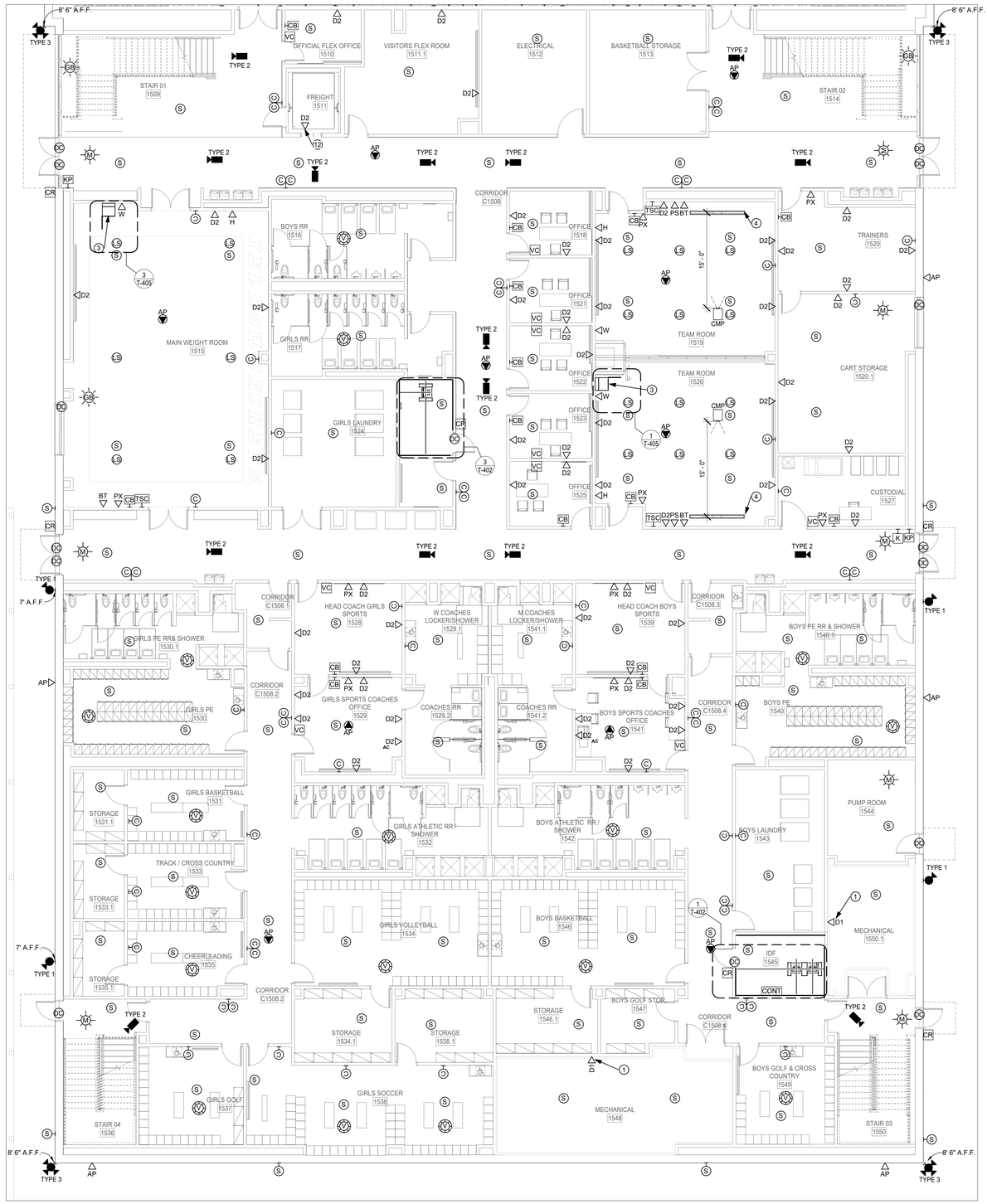

1 **1ST FLOOR TECHNOLOGY PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

1ST FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN
TN-101B
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
12/3/2025 5:37:58 PM

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
(SEAL)

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

TN-101B

0"
1"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

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N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

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2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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1 1ST FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

1ST FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN
TN-101C
FOR BLUEBEAM LABELING/DOCR:

Plot Stamp:
12/3/2025 5:38:07 PM

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713.865.6008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-101C

0"
1"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

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F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

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1 **1ST FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

1ST FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN
TN-101D
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
12/3/2025 5:38:11 PM

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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-101D

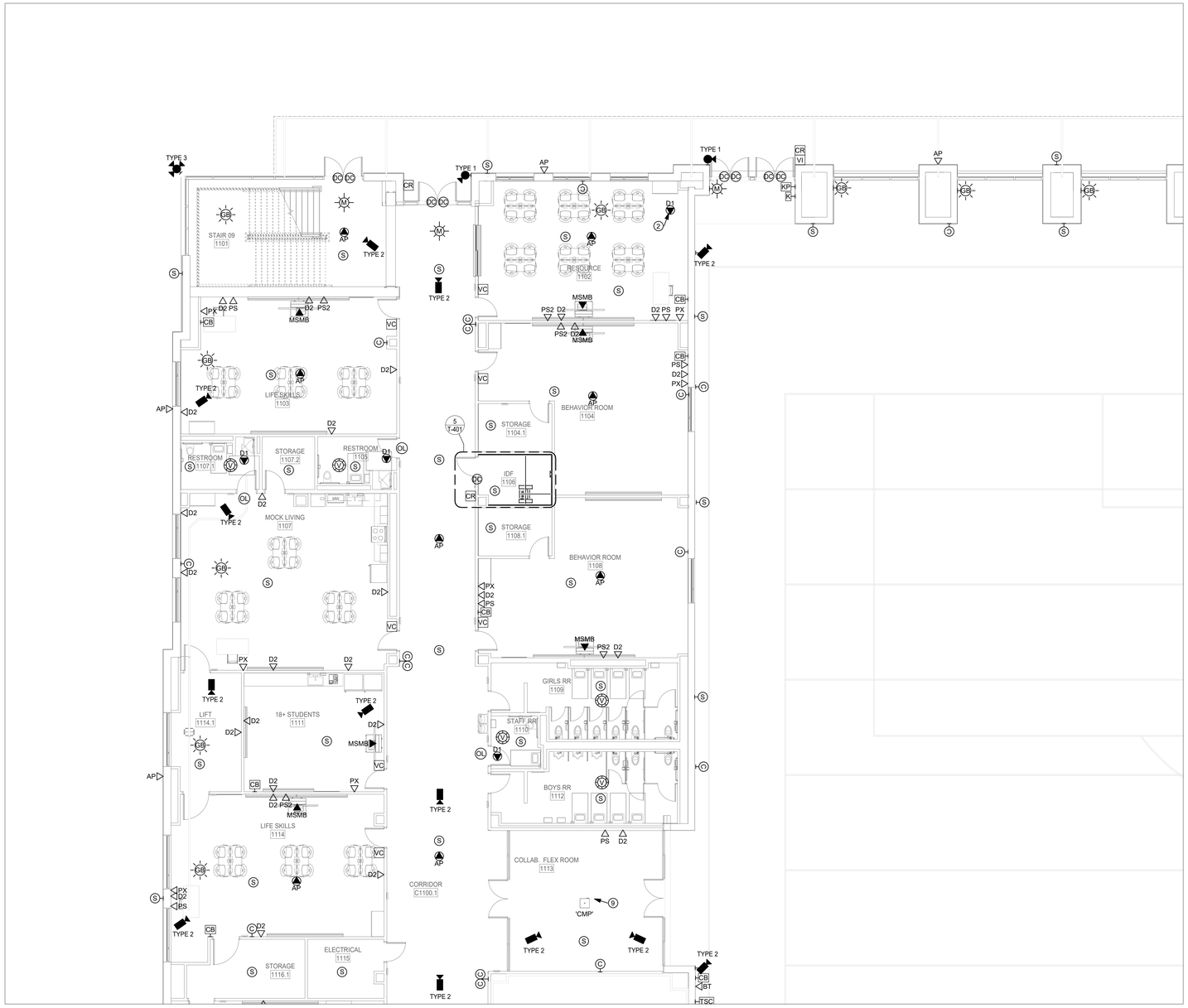
0"

1"

1ST FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-101E

FOR BLUEBEAM LABELING/DOOR:



1 1ST FLOOR TECHNOLOGY PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

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5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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713-865-0606

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-101E

Plot Stamp:
12/3/2025 5:38:16 PM

0"
1"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
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6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
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1 1ST FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:38:21 PM

FOR BLUEBEAM LABELING/DOOR:

1ST FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN
TN-101F

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713-865-0008

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-101F

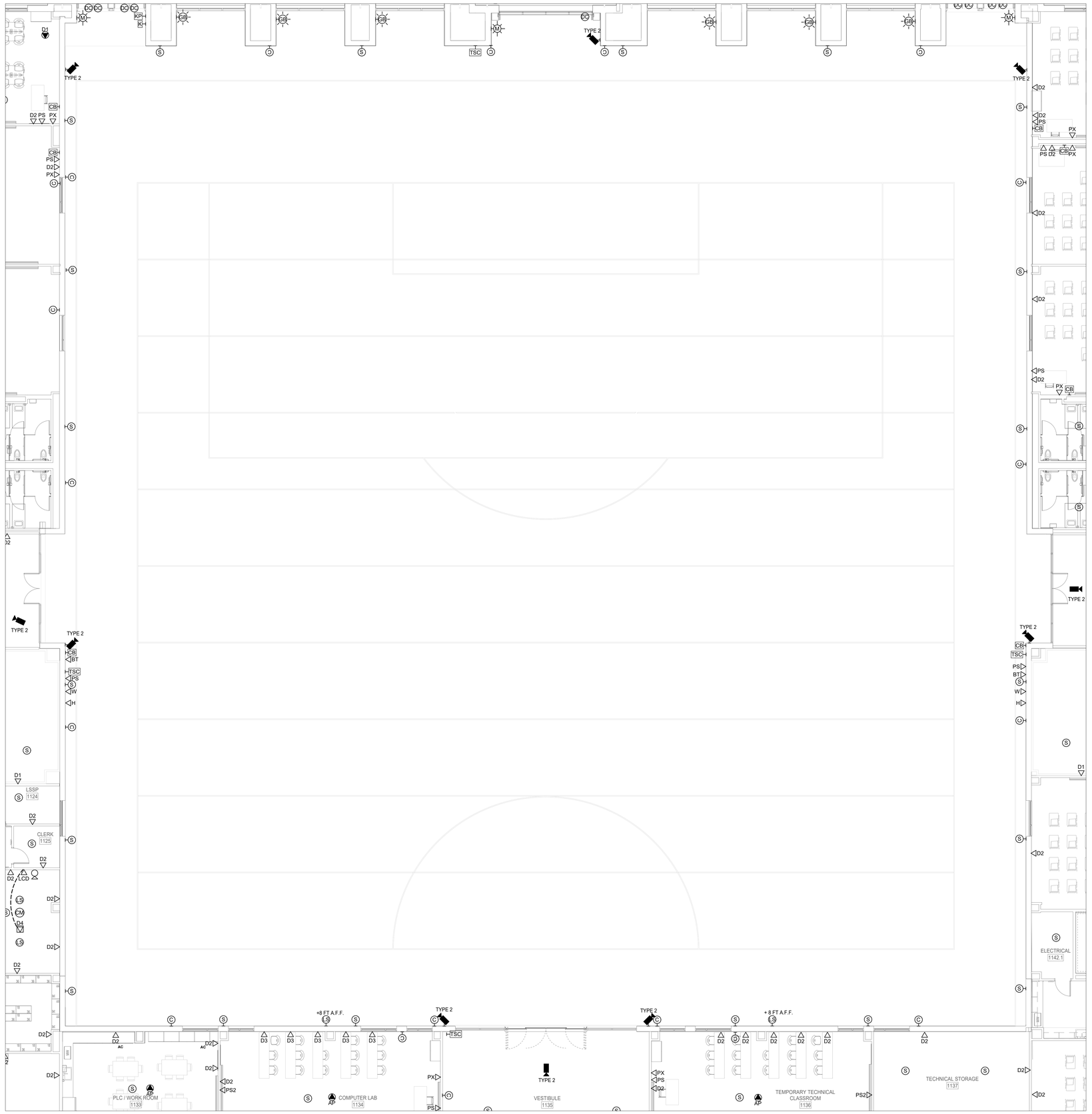
1ST FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

TN-101G

FOR BLUEBEAM LABELING/DOOR:

0"

1"



1 1ST FLOOR TECHNOLOGY PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

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F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

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3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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HOUSTON, TX
713-865-0606

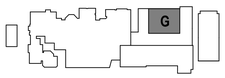
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

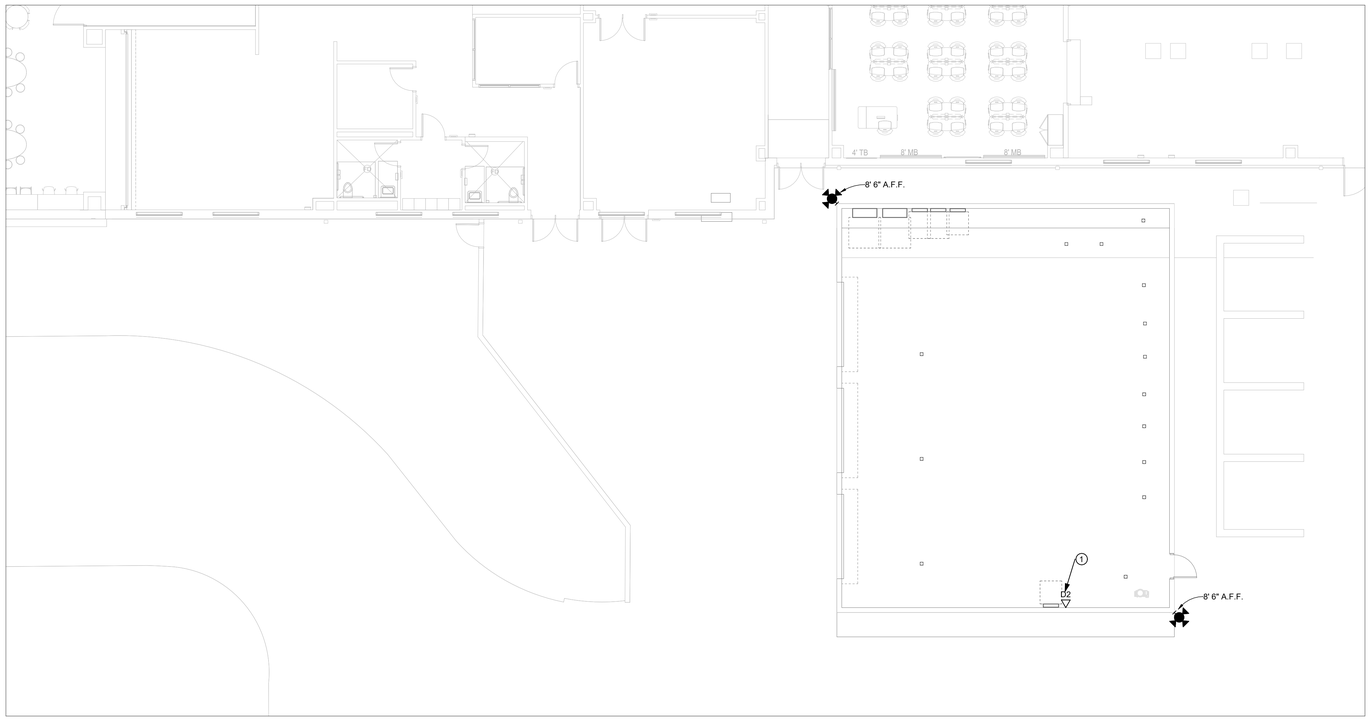
TN-101G

Plot Stamp:
12/3/2025 5:38:26 PM

0"
1"

1ST FLOOR TECHNOLOGY PLAN - AREA H - MODULAR CENTRAL PLANT FLOOR PLAN

FOR BLUEBEAM LABELING/DOOR:



1 1ST TECHNOLOGY PLAN - AREA H MODULAR CENTRAL PLANT FLOOR PLAN Copy 1

SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

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F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

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(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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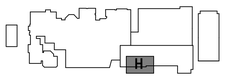
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN ≈ TRUE



December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA H - MODULAR CENTRAL PLANT FLOOR PLAN

TN-101H

Plot Stamp:
12/3/2025 5:38:27 PM

0"

1"

2ND FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN
TN-102
FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY OVERALL PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLING, PATCH PANELS, JACKS, FACEPLATES, LABELING, AND TESTING FOR A COMPLETE TELECOMMUNICATIONS SYSTEM AS INDICATED ON FLOOR PLANS AND RISER DIAGRAMS.

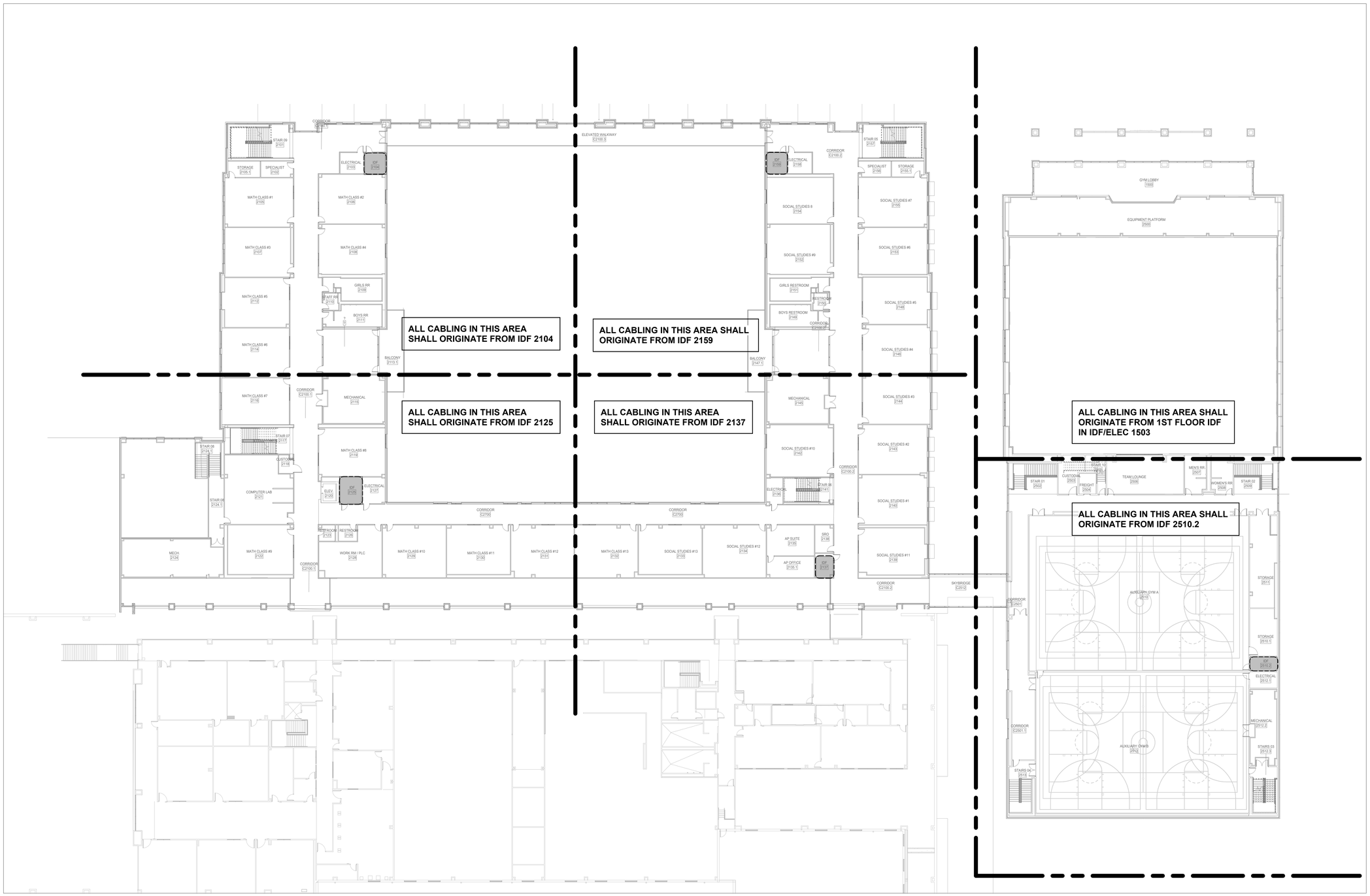
C. CABLING SHALL BE ROUTED FROM MDF TO EACH IDF AND FROM IDFs TO TELECOM OUTLETS. ROUTING IS DIAGRAMMATIC — CONTRACTOR SHALL FIELD VERIFY PATHWAYS AND COORDINATE WITH ARCHITECTURAL AND MEP CONDITIONS PRIOR TO INSTALLATION.

D. ALL CABLING SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA STANDARDS AND LOCAL CODES. PLENUM-RATED CABLE SHALL BE USED IN PLENUM SPACES UNLESS OTHERWISE INSTALLED IN EMT CONDUIT.

E. CONTRACTOR SHALL LABEL ALL CABLES, PATCH PANELS, AND JACKS PER PROJECT STANDARDS AND PROVIDE CERTIFIED TEST RESULTS TO DESIGN ENGINEER FOR REVIEW.

F. ALL MDF AND IDF ROOMS SHALL BE LEFT CLEAN AND ORGANIZED AT PROJECT COMPLETION. CABLE SLACK SHALL BE NEATLY COILED AND SECURED ABOVE RACKS OR WITHIN DESIGNATED MANAGEMENT HARDWARE.

G. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CABLING AND TELECOM INFRASTRUCTURE DURING CONSTRUCTION. DAMAGE TO EXISTING OR NEW CABLING SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



1 **2ND FLOOR TECHNOLOGY PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN**
SCALE: 1" = 20'-0"

Plot Stamp:
12/3/2025 5:38:32 PM

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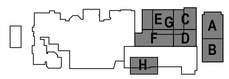


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

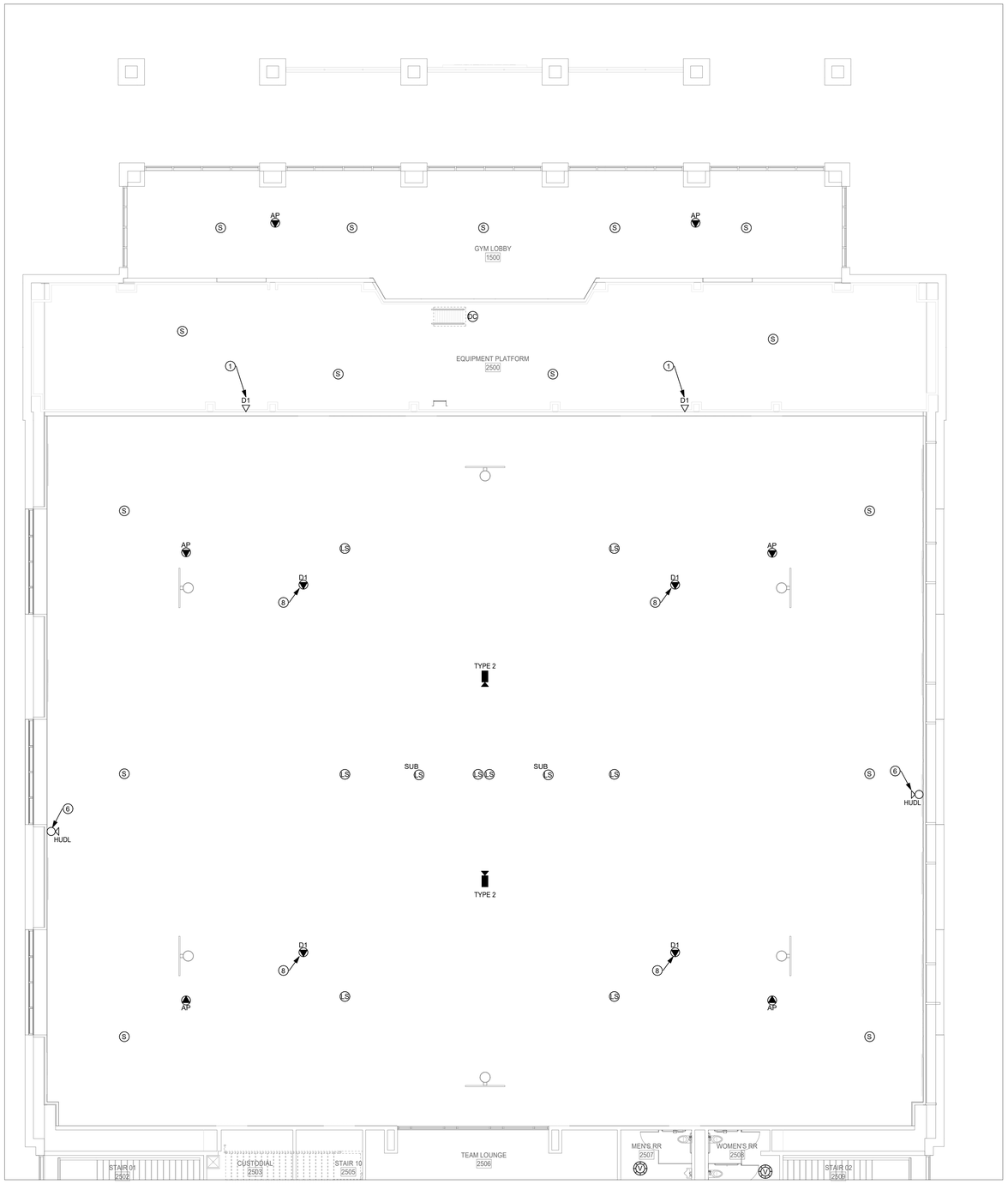
CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN

TN-102

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA A - GYM FLOOR PLAN
TN-102A
FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR TECHNOLOGY PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

Ⓗ TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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Galena Park ISD

KEY PLAN
NORTH: PLAN ≠ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

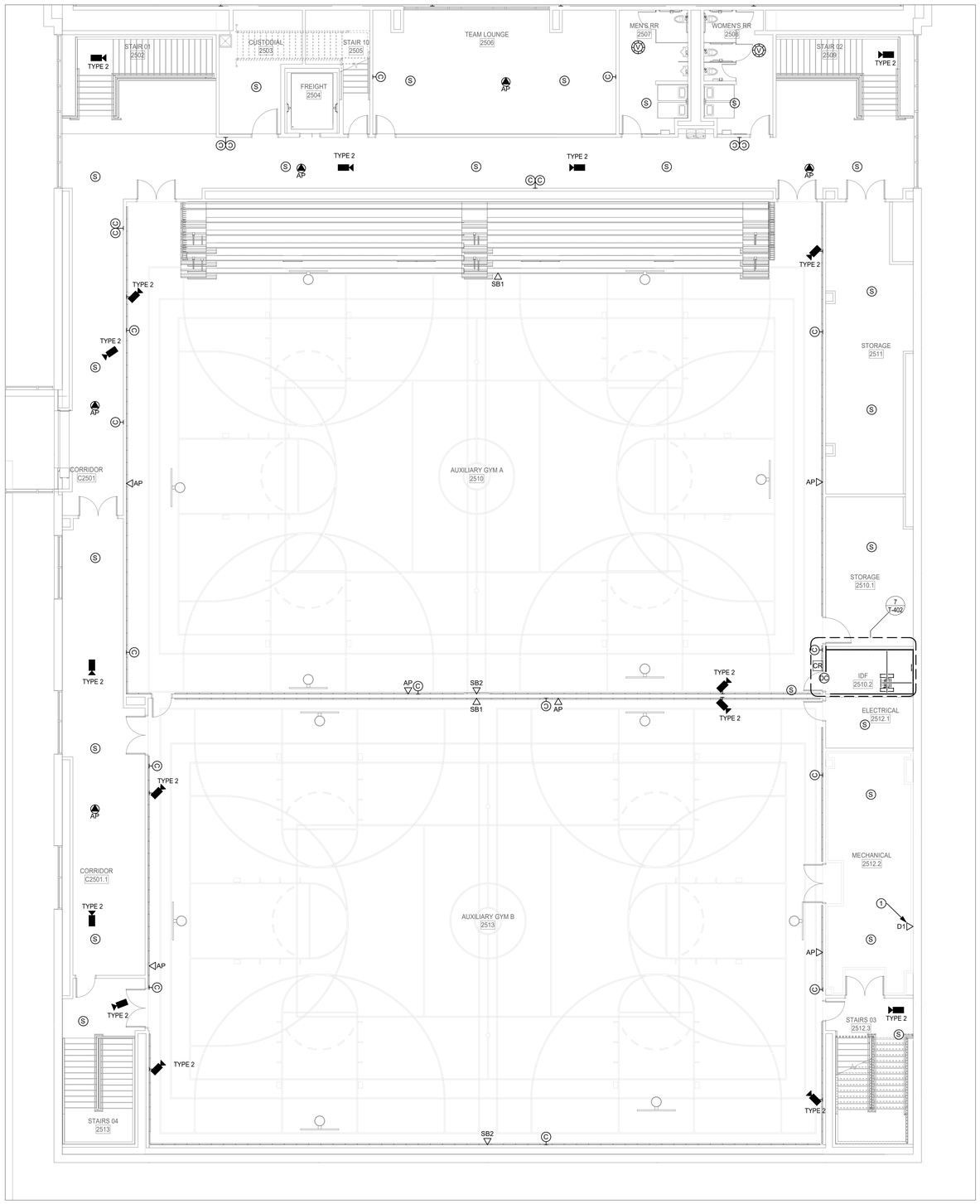
2ND FLOOR TECHNOLOGY PLAN - AREA A - GYM FLOOR PLAN

TN-102A

Plot Stamp:
12/3/2025 5:38:34 PM

0"

1"



1 2ND FLOOR TECHNOLOGY PLAN - AREA B NEW GYM FLOOR PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

Ⓗ TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
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13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

TN-102B

2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN
TN-102B
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/3/2025 5:38:37 PM

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN
TN-102C
FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

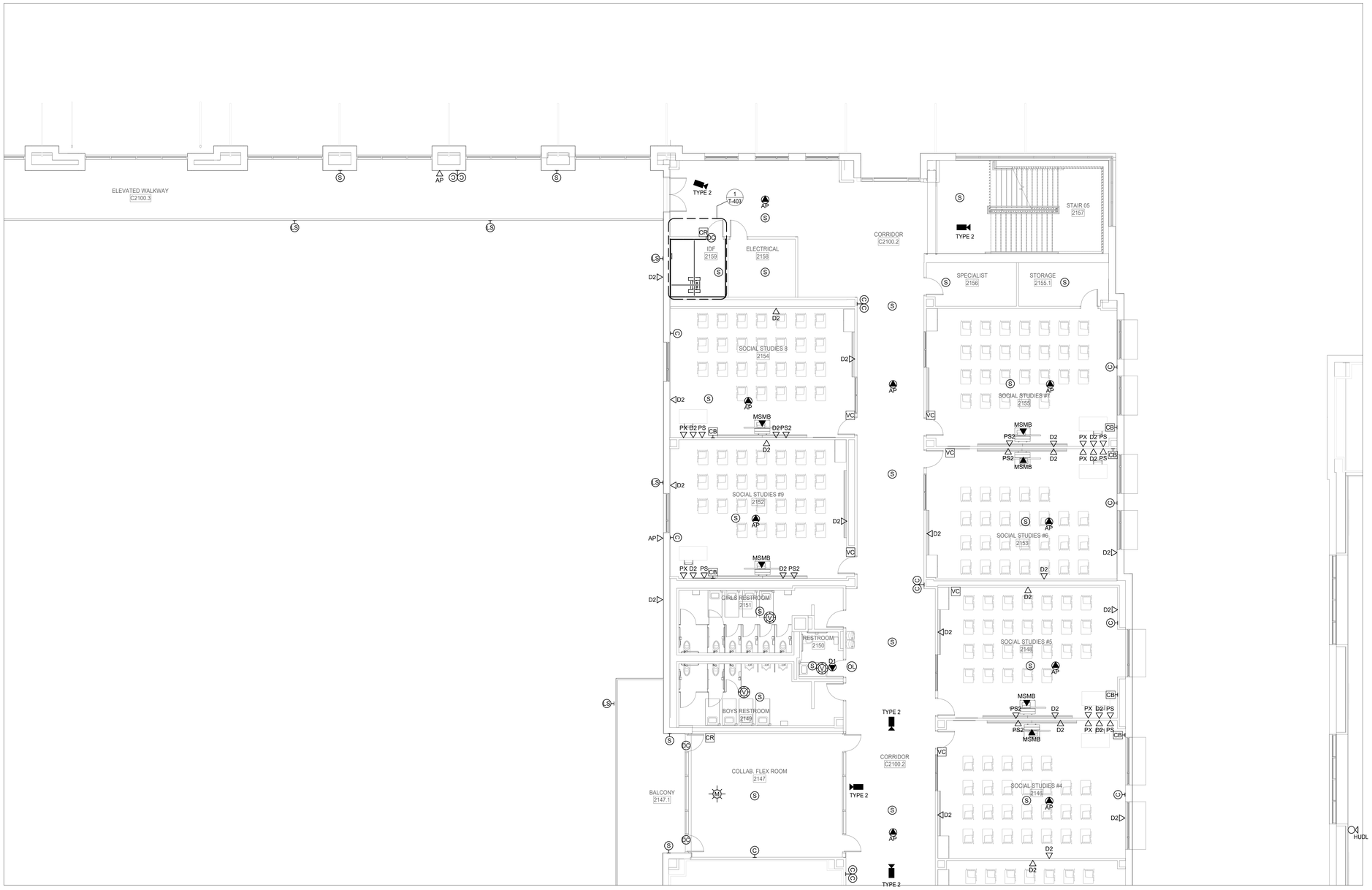
P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 **2ND FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:38:43 PM

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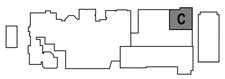
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-102C

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN
TN-102D

FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
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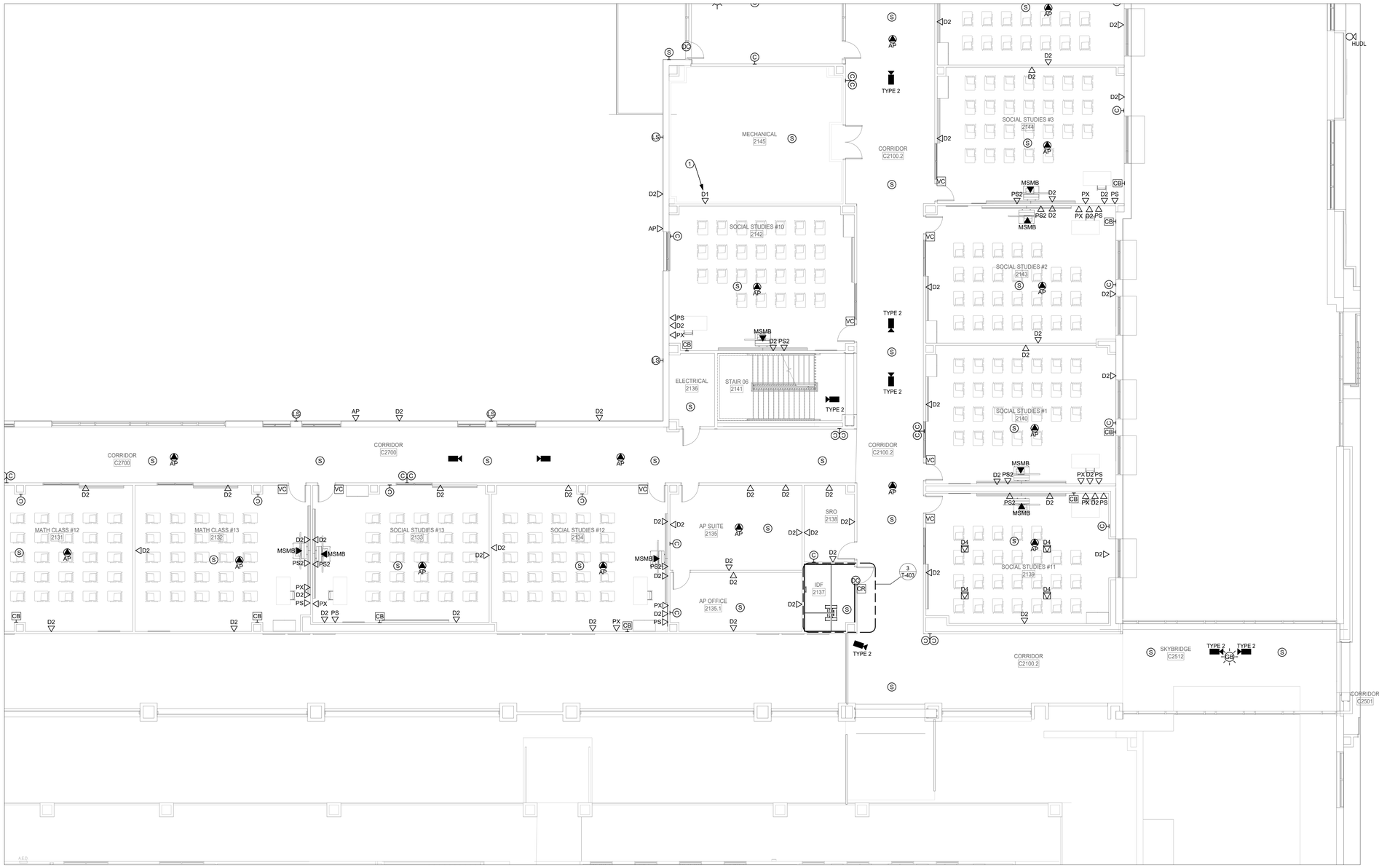
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 **2ND FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:38:48 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

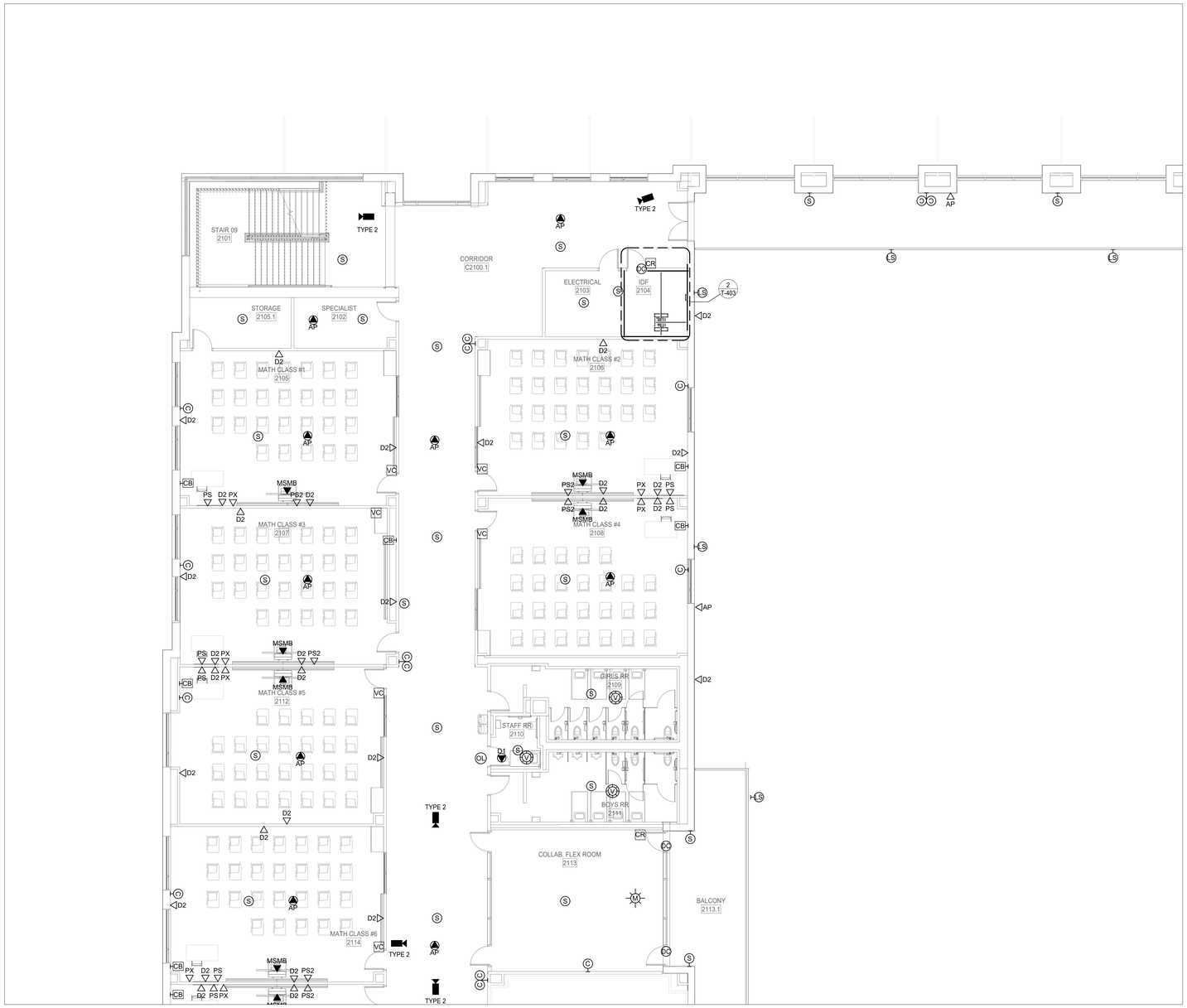
TN-102D

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-102E

FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR TECHNOLOGY PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

Ⓗ TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
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13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN

NORTH: PLAN ≈ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
DONALD C. RICHARDS
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-102E

Plot Stamp:
12/3/2025 5:38:53 PM

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN
TN-102F
FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

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L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

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Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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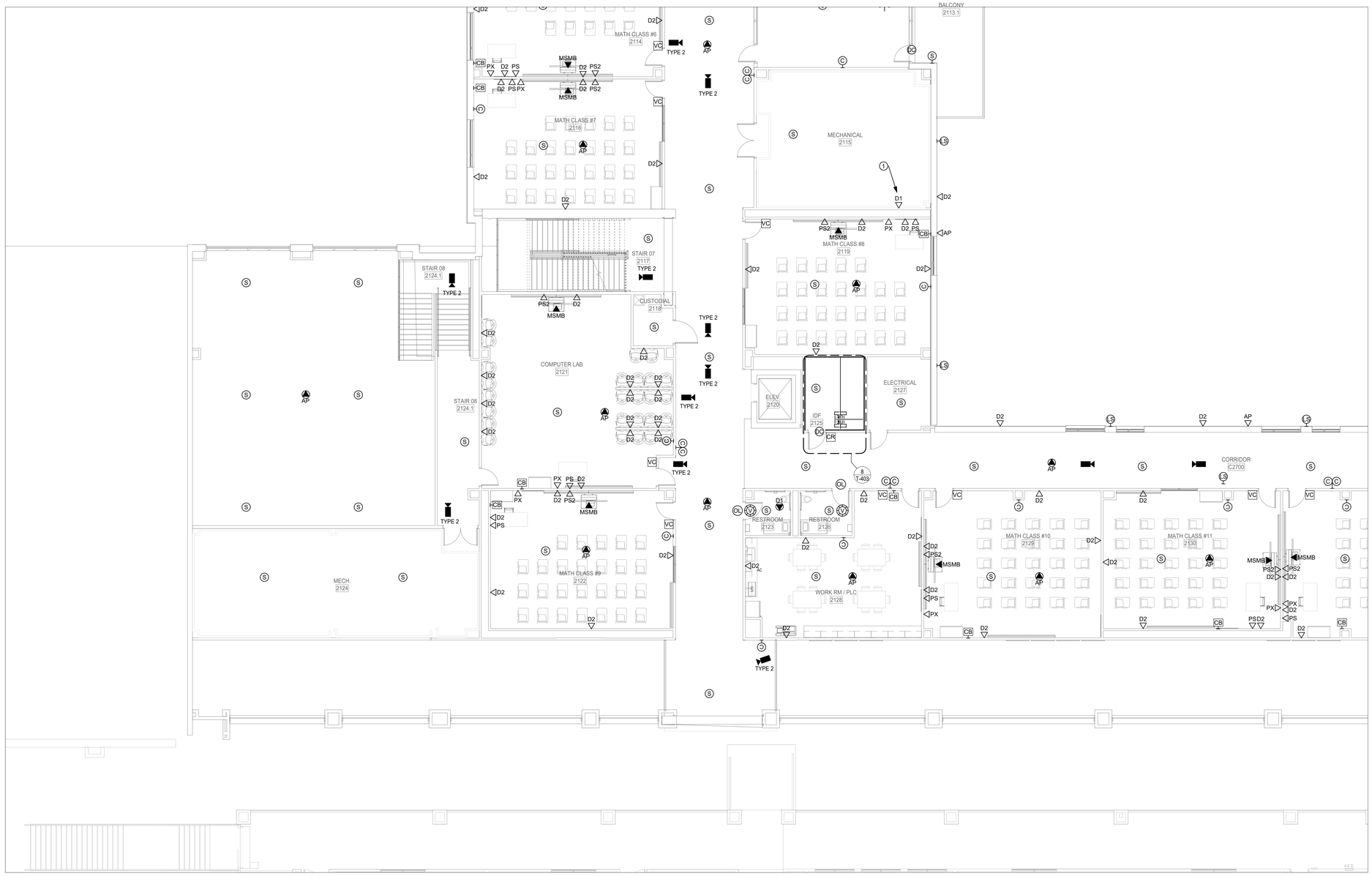
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 **2ND FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:38:57 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

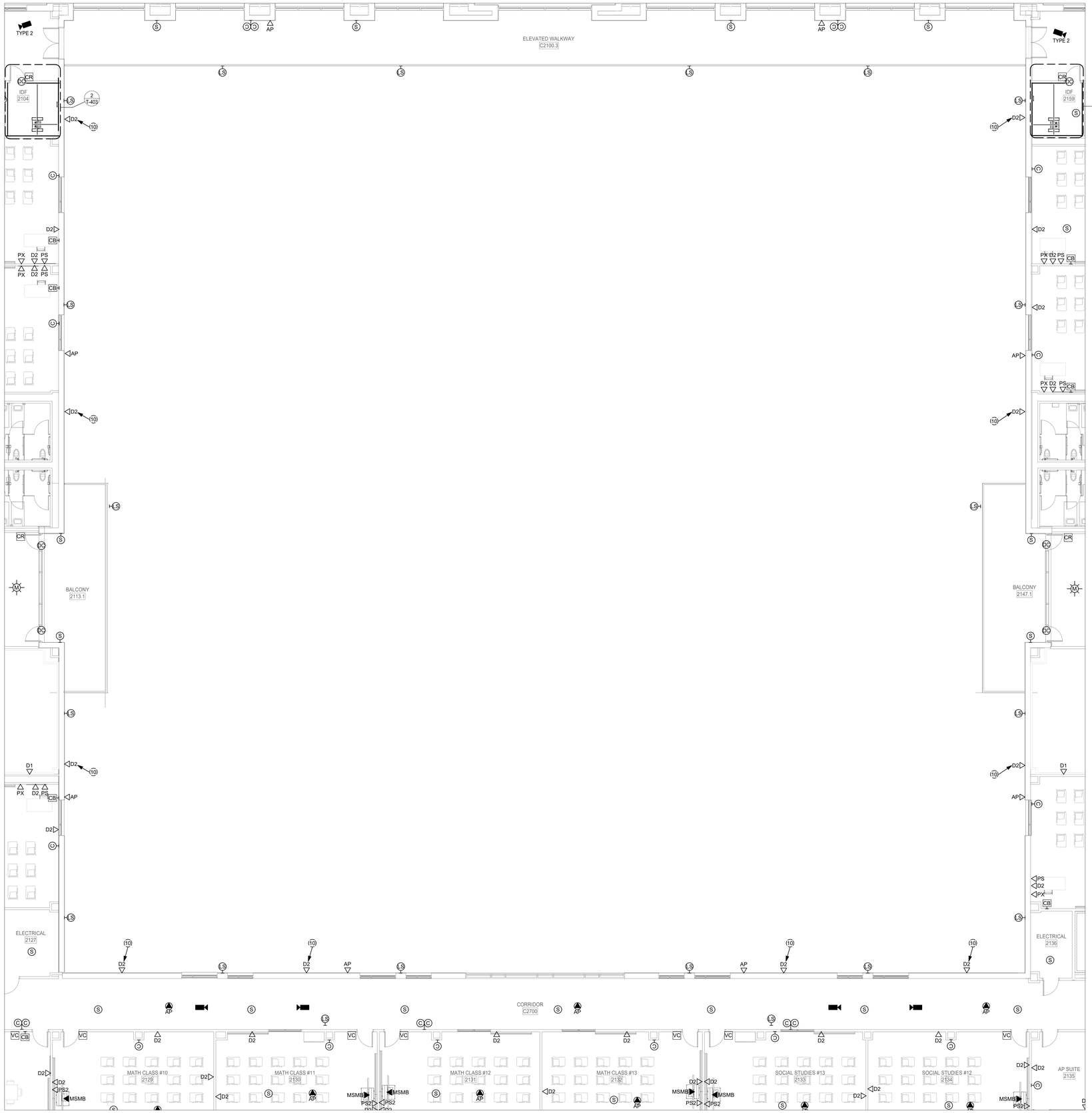
CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-102F

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN
TN-102G
FOR BLUEBEAM LABELING/DOOR:



1 2ND FLOOR TECHNOLOGY PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:39:02 PM

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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LEAF ENGINEERS

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Galena Park ISD

G

KEY PLAN

NORTH: PLAN ≈ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
(OWL)

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

TN-102G

0"

1"

TECHNOLOGY OVERALL PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLING, PATCH PANELS, JACKS, FACEPLATES, LABELING, AND TESTING FOR A COMPLETE TELECOMMUNICATIONS SYSTEM AS INDICATED ON FLOOR PLANS AND RISER DIAGRAMS.

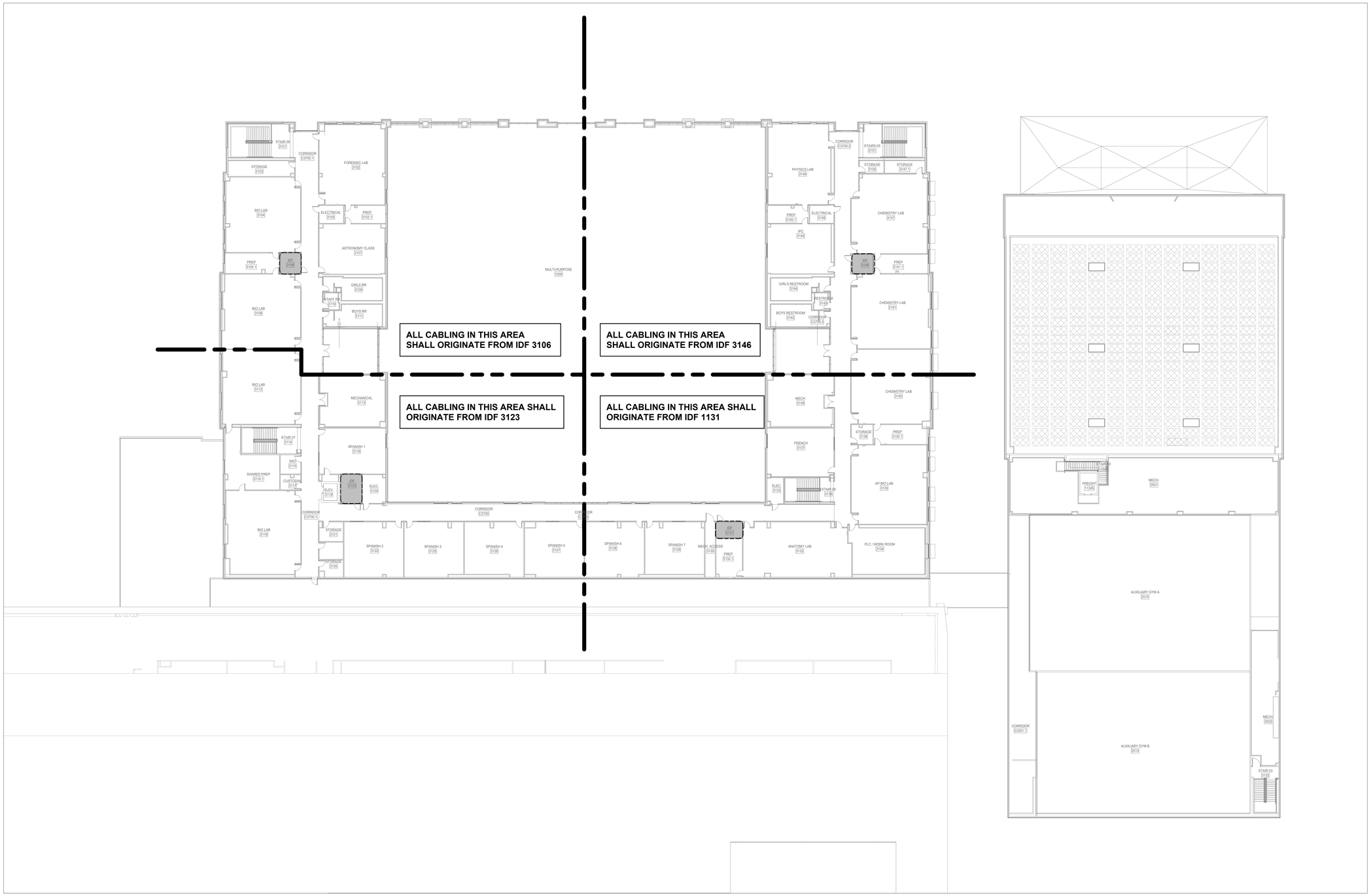
C. CABLING SHALL BE ROUTED FROM MDF TO EACH IDF AND FROM IDFs TO TELECOM OUTLETS. ROUTING IS DIAGRAMMATIC — CONTRACTOR SHALL FIELD VERIFY PATHWAYS AND COORDINATE WITH ARCHITECTURAL AND MEP CONDITIONS PRIOR TO INSTALLATION.

D. ALL CABLING SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA STANDARDS AND LOCAL CODES. PLENUM-RATED CABLE SHALL BE USED IN PLENUM SPACES UNLESS OTHERWISE INSTALLED IN EMT CONDUIT.

E. CONTRACTOR SHALL LABEL ALL CABLES, PATCH PANELS, AND JACKS PER PROJECT STANDARDS AND PROVIDE CERTIFIED TEST RESULTS TO DESIGN ENGINEER FOR REVIEW.

F. ALL MDF AND IDF ROOMS SHALL BE LEFT CLEAN AND ORGANIZED AT PROJECT COMPLETION. CABLE SLACK SHALL BE NEATLY COILED AND SECURED ABOVE RACKS OR WITHIN DESIGNATED MANAGEMENT HARDWARE.

G. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CABLING AND TELECOM INFRASTRUCTURE DURING CONSTRUCTION. DAMAGE TO EXISTING OR NEW CABLING SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



1 **3RD FLOOR TECHNOLOGY PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN**
SCALE: 1" = 20'-0"

3RD FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN
TN-103
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
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Galena Park, TX 77547

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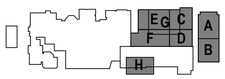

KEY PLAN
NORTH: PLAN = TRUE



December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN

TN-103

0"
1"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
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12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 **3RD FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

3RD FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN
TN-103C
FOR BLUEBEAM LABELING/DOOR:

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1000 Keene St.
Galena Park, TX 77547

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Galena Park ISD

C

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-103C

0"
1"

3RD FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN
TN-103D
FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

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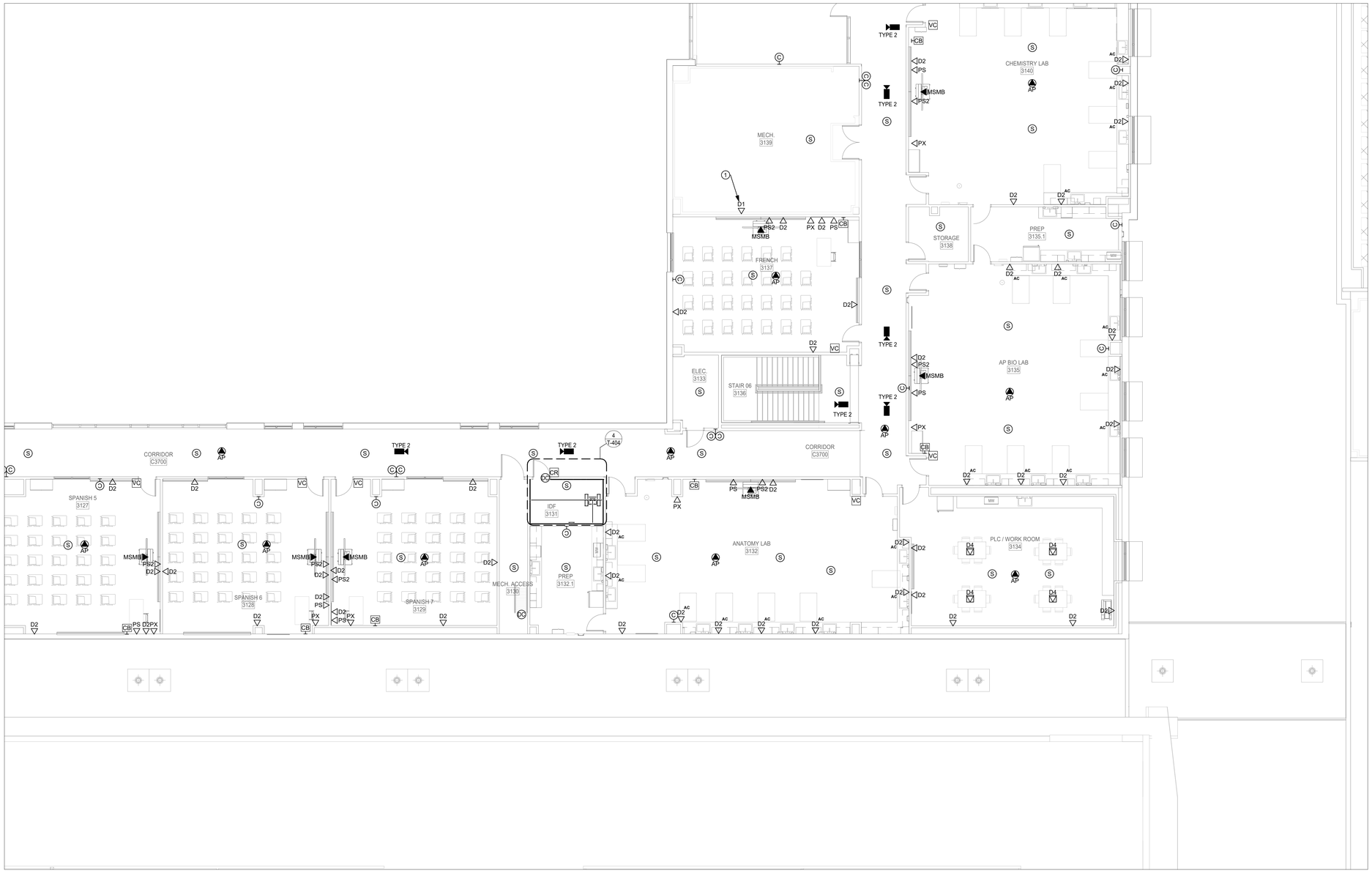
P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 **3RD FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:39:13 PM

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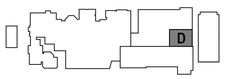
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-103D

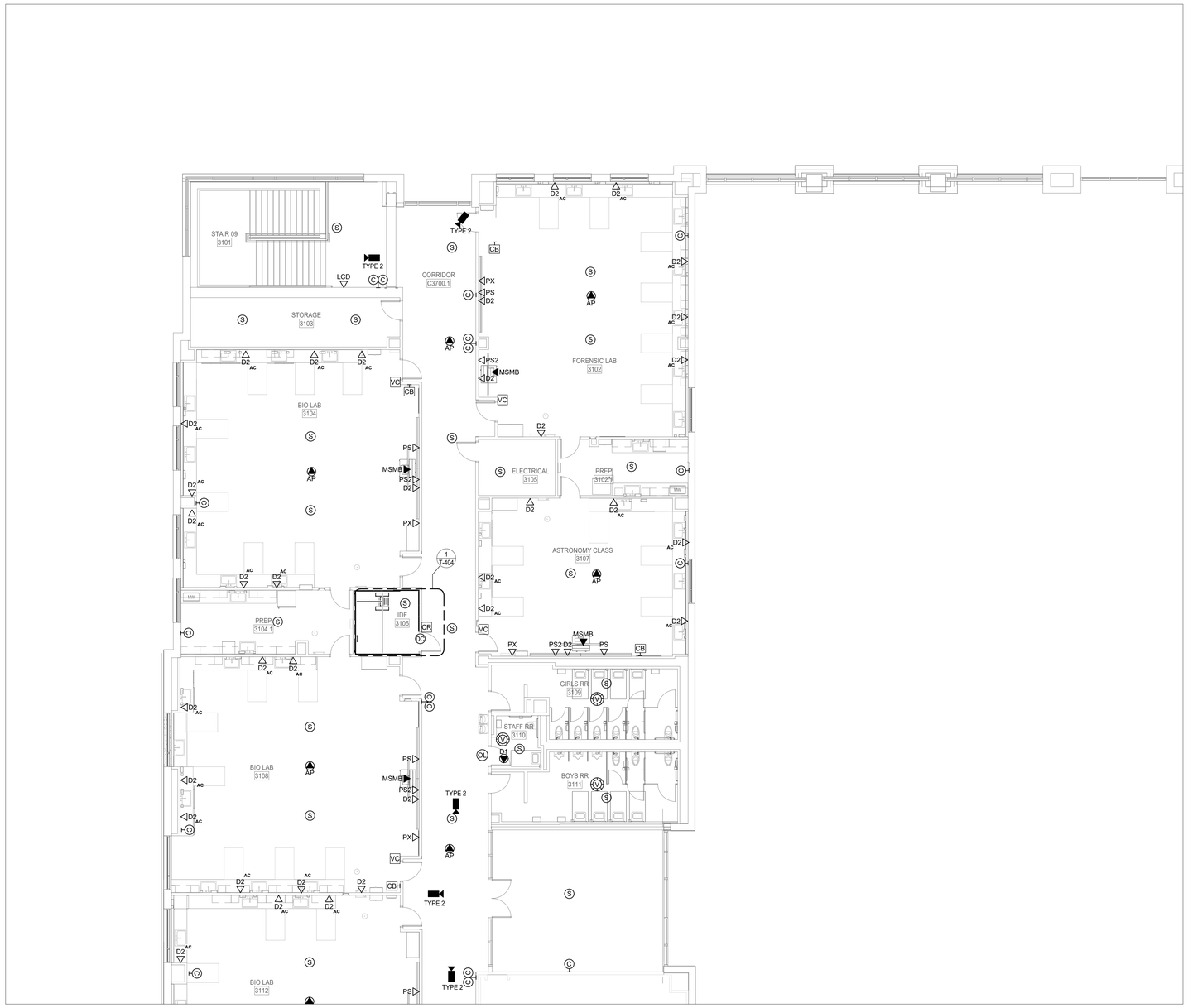
0"

1"

3RD FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-103E

FOR BLUEBEAM LABELING/DOOR:



1 3RD FLOOR TECHNOLOGY PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plot Stamp:
12/3/2025 5:39:17 PM

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

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5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
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13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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713-865-0606

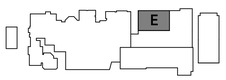
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

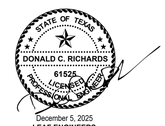
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-103E

0"
1"

3RD FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN
TN-103F
FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

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M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

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R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

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5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
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1 **3RD FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

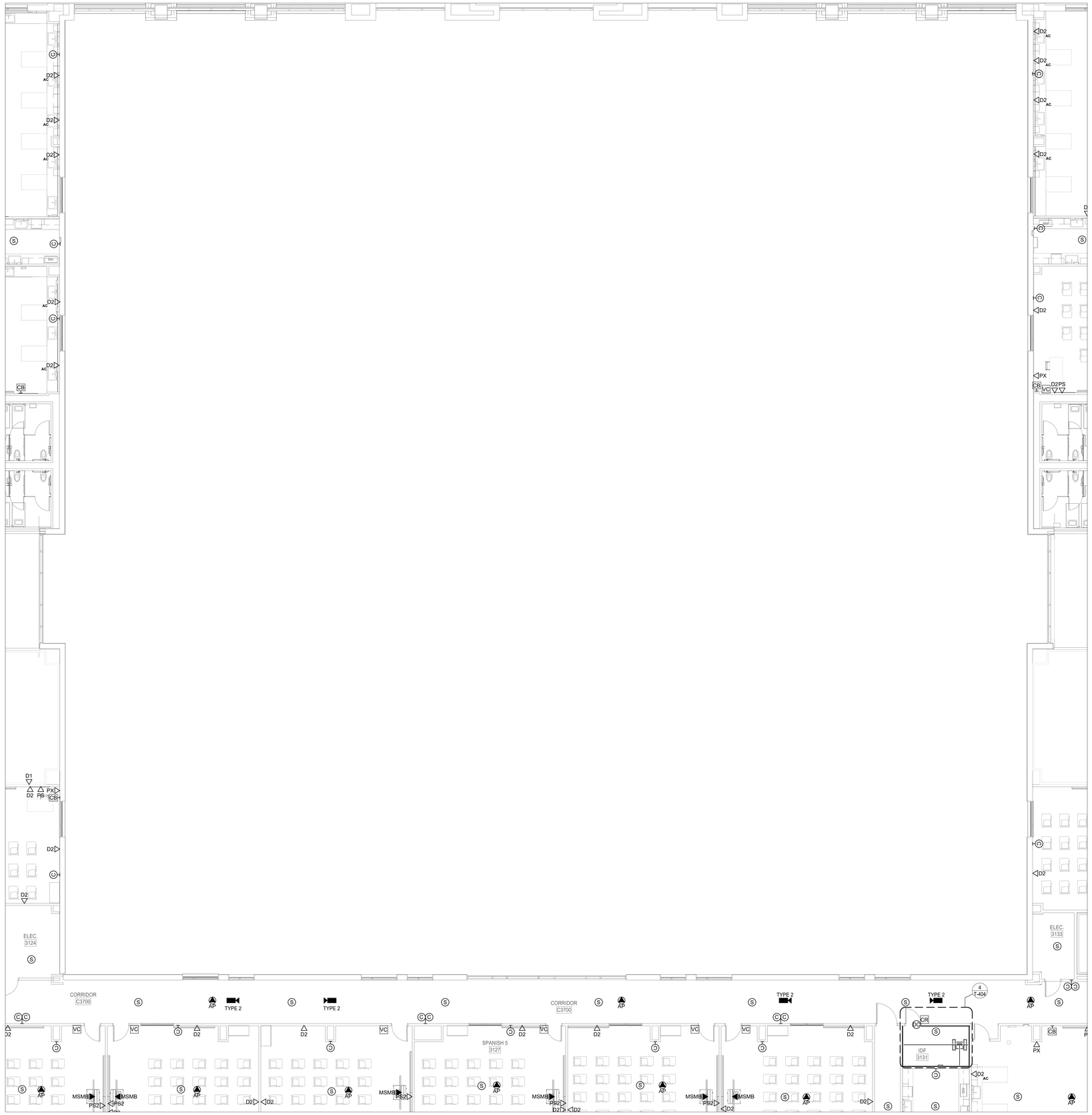
TN-103F

0"
1"

3RD FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

TN-103G

FOR BLUEBEAM LABELING/DOOR:



1 3RD FLOOR TECHNOLOGY PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

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1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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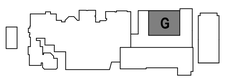
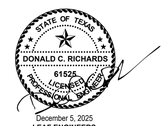


KEY PLAN

NORTH: PLAN ≈ TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

TN-103G

Plot Stamp:
12/3/2025 5:39:25 PM

0"
1"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
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8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
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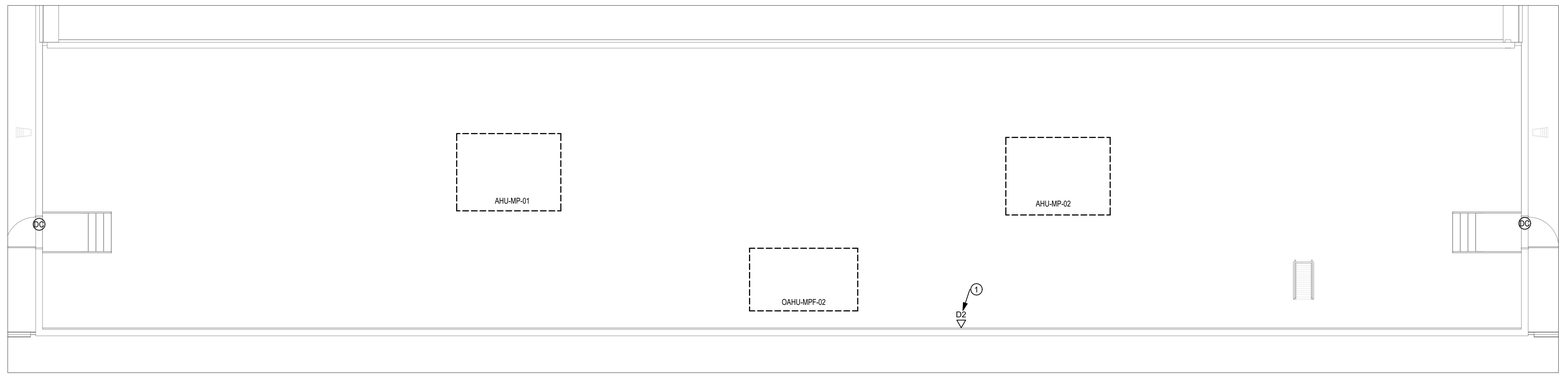
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 MULTIPURPOSE ENLARGED LEVEL 3 BOD MEZZANINE TECHNOLOGY (PLAN PLAN SOUTH ABOVE MAIN STREET)
SCALE: 1/8" = 1'-0"

ROOFTOP MEZZANINE TECHNOLOGY PLAN - MP MEZZANINE FLOOR PLAN
TN-104
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
12/3/2025 5:39:26 PM

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

ROOFTOP MEZZANINE TECHNOLOGY PLAN - MP MEZZANINE FLOOR PLAN

TN-104

0"

1"

TECHNOLOGY SECTION PLAN GENERAL NOTES

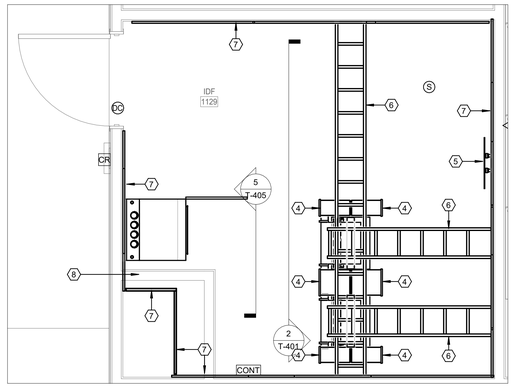
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. RACKS SHALL BE 45U 2-POST RACKS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

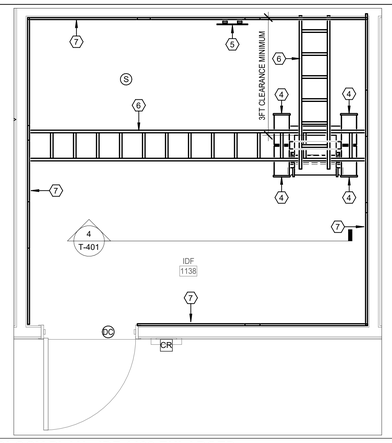
C. DRAWING SHOWS TYPICAL DISTRICT RACK LAYOUT FOR IDF RACK. IN THIS TYPICAL DESIGN, ASSUME 13U OF SPACE BETWEEN BOTTOM-MOST BLANK PLATE AND TOP-MOST UPS.

(#) TECHNOLOGY SECTION PLAN KEYED NOTES

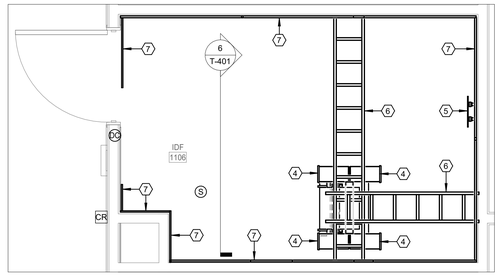
1. 24-PORT MODULAR PATCH PANEL
2. (2) 24-PORT OR (1) 2U 48-PORT MODULAR PATCH PANEL(S)
3. OFOI 48-PORT NETWORK SWITCH
4. SIDE-MOUNTED VERTICAL CABLE MANAGEMENT FOR 2-POST RACK
5. INDICATES GROUNDING BUS BAR.
6. INDICATES LADDER-STYLE CABLE TRAY FOR OVERHEAD CABLE ROUTING.
7. INDICATES TYPICAL FIRE-RATED PLYWOOD BACKBOARD MOUNTED LAGGED INTO METAL STUD BACKER.
8. INDICATES AV RACK INTENDED FOR HOUSING EQUIPMENT FOR MULTIPURPOSE SPACE.



1 1ST FLOOR TECHNOLOGY PLAN - IDF 1129 ENLARGED
SCALE: 1/2" = 1'-0"



3 1ST FLOOR TECHNOLOGY PLAN - IDF 1138 ENLARGED
SCALE: 1/2" = 1'-0"



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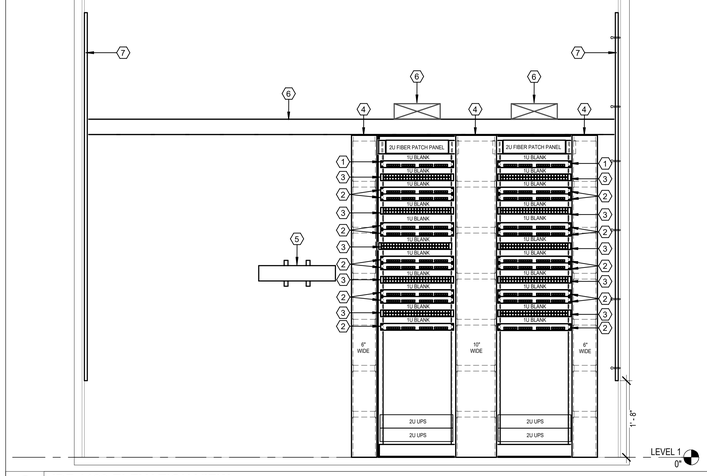
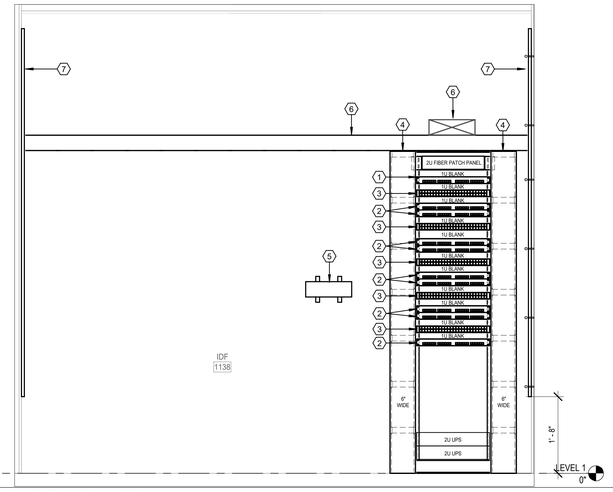
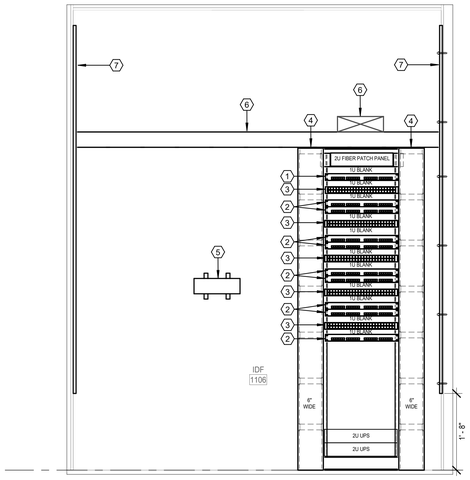
SCALE: 1/2" = 1'-0"



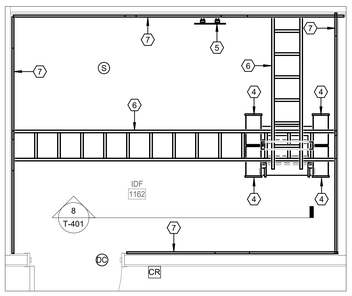
2 IDF 1129 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



4 IDF 1138 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



6 IDF 1106 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



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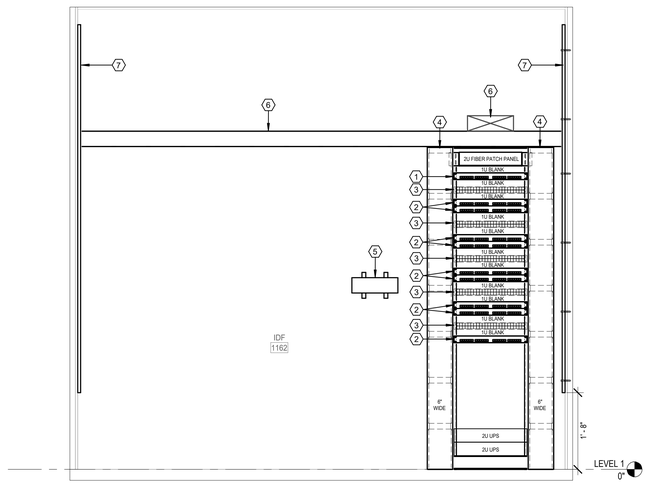
SCALE: 1/2" = 1'-0"



8 IDF 1162 ELEVATION VIEW
SCALE: 3/4" = 1'-0"

TECHNOLOGY SECTIONS - 1ST FLOOR MP IDF & MDF CLOSETS
T-401
FOR BLUEBEAM LABELING/OCR:

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December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - 1ST FLOOR MP IDF & MDF CLOSETS

T-401

TECHNOLOGY SECTIONS - 1ST & 2ND FLOOR GYM IDF CLOSETS
T-402
FOR BLUEBEAM LABELING/OCR:

0"
1"

TECHNOLOGY SECTION PLAN GENERAL NOTES

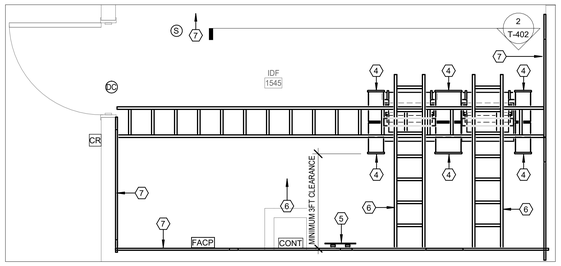
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. RACKS SHALL BE 45U 2-POST RACKS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

C. DRAWING SHOWS TYPICAL DISTRICT RACK LAYOUT FOR IDF RACK. IN THIS TYPICAL DESIGN, ASSUME 13U OF SPACE BETWEEN BOTTOM-MOST BLANK PLATE AND TOP-MOST UPS.

(#) TECHNOLOGY SECTION PLAN KEYED NOTES

1. 24-PORT MODULAR PATCH PANEL
2. (2) 24-PORT OR (1) 2U 48-PORT MODULAR PATCH PANEL(S)
3. OFOI 48-PORT NETWORK SWITCH
4. SIDE-MOUNTED VERTICAL CABLE MANAGEMENT FOR 2-POST RACK
5. INDICATES GROUNDING BUS BAR.
6. INDICATES LADDER-STYLE CABLE TRAY FOR OVERHEAD CABLE ROUTING.
7. INDICATES TYPICAL FIRE-RATED PLYWOOD BACKBOARD MOUNTED LAGGED INTO METAL STUD BACKER.
8. INDICATES AV RACK INTENDED FOR HOUSING EQUIPMENT FOR MULTIPURPOSE SPACE.



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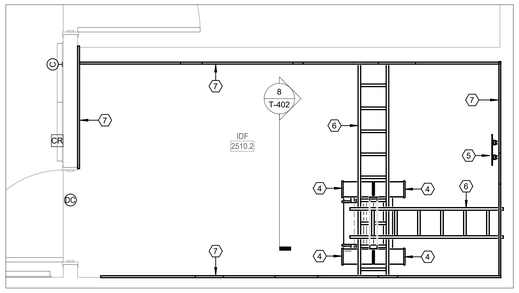
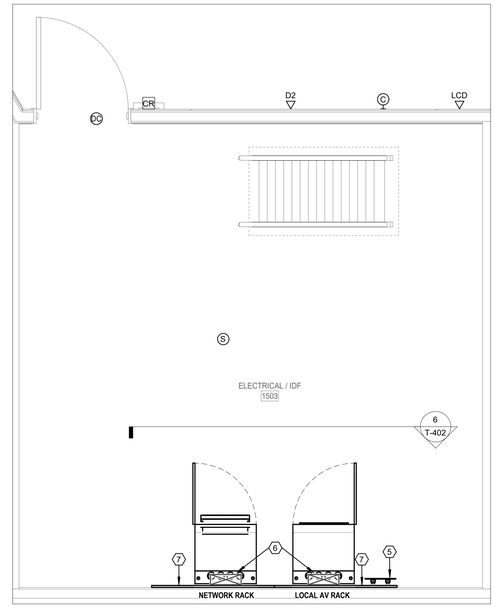
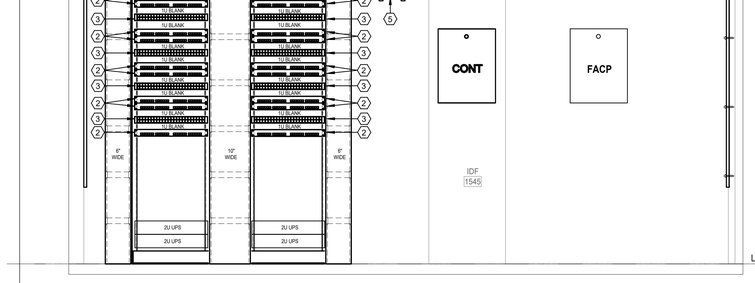
SCALE: 1/2" = 1'-0"



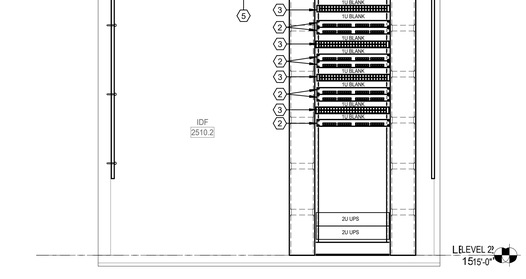
7 2ND FLOOR TECHNOLOGY PLAN - IDF 2510.2 ENLARGED
SCALE: 1/2" = 1'-0"



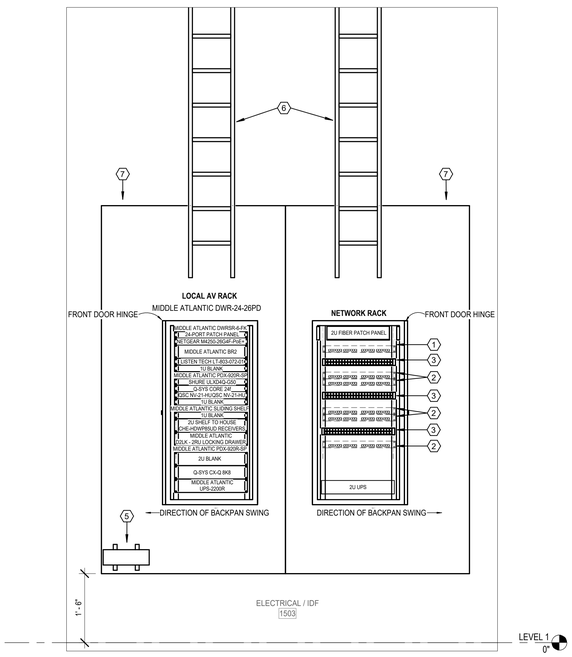
5 1ST FLOOR TECHNOLOGY PLAN - IDF ELEC/IDF 1503 ENLARGED
SCALE: 1/2" = 1'-0"



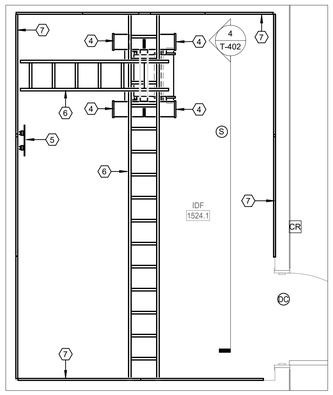
2 IDF 1545 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



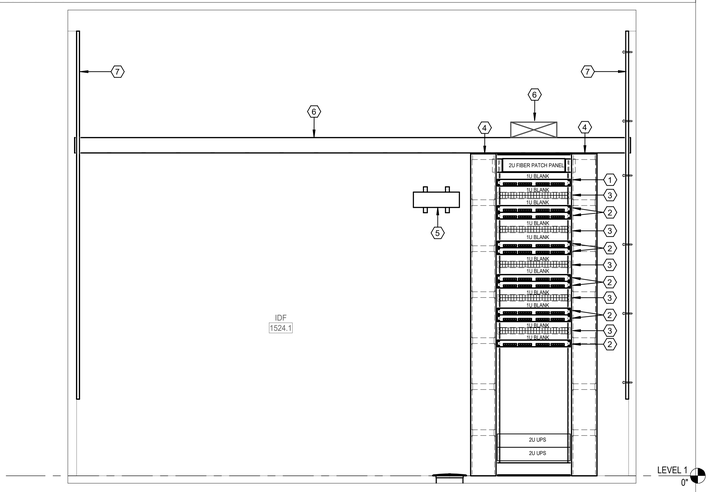
8 IDF 2510.2 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



6 IDF ELEC/IDF 1503 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



3 1ST FLOOR TECHNOLOGY PLAN - IDF 1524.1 ENLARGED
SCALE: 1/2" = 1'-0"



4 IDF 1524.1 ELEVATION VIEW
SCALE: 3/4" = 1'-0"

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LICENSED
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December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - 1ST & 2ND FLOOR GYM IDF CLOSETS

T-402

Plot Stamp:
12/3/2025 5:39:37 PM

0"

1"

TECHNOLOGY SECTION PLAN GENERAL NOTES

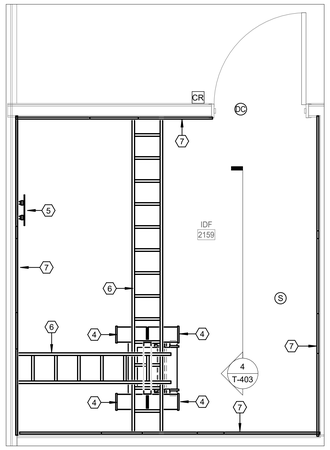
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. RACKS SHALL BE 45U 2-POST RACKS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

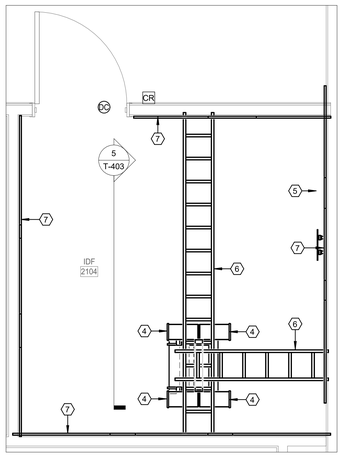
C. DRAWING SHOWS TYPICAL DISTRICT RACK LAYOUT FOR IDF RACK. IN THIS TYPICAL DESIGN, ASSUME 13U OF SPACE BETWEEN BOTTOM-MOST BLANK PLATE AND TOP-MOST UPS.

(#) TECHNOLOGY SECTION PLAN KEYED NOTES

1. 24-PORT MODULAR PATCH PANEL
2. (2) 24-PORT OR (1) 2U 48-PORT MODULAR PATCH PANEL(S)
3. OFOI 48-PORT NETWORK SWITCH
4. SIDE-MOUNTED VERTICAL CABLE MANAGEMENT FOR 2-POST RACK
5. INDICATES GROUNDING BUS BAR.
6. INDICATES LADDER-STYLE CABLE TRAY FOR OVERHEAD CABLE ROUTING.
7. INDICATES TYPICAL FIRE-RATED PLYWOOD BACKBOARD MOUNTED LAGGED INTO METAL STUD BACKER.
8. INDICATES AV RACK INTENDED FOR HOUSING EQUIPMENT FOR MULTIPURPOSE SPACE.



1 2ND FLOOR TECHNOLOGY PLAN - IDF 2159 ENLARGED
SCALE: 1/2" = 1'-0"



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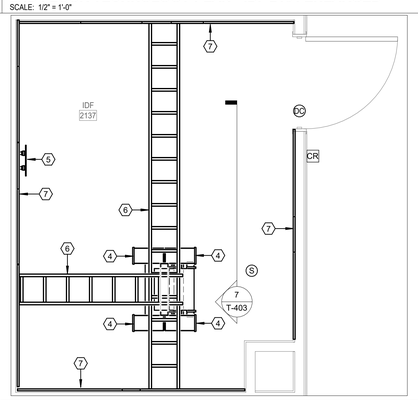
SCALE: 1/2" = 1'-0"



3 2ND FLOOR TECHNOLOGY PLAN - IDF 2137 ENLARGED
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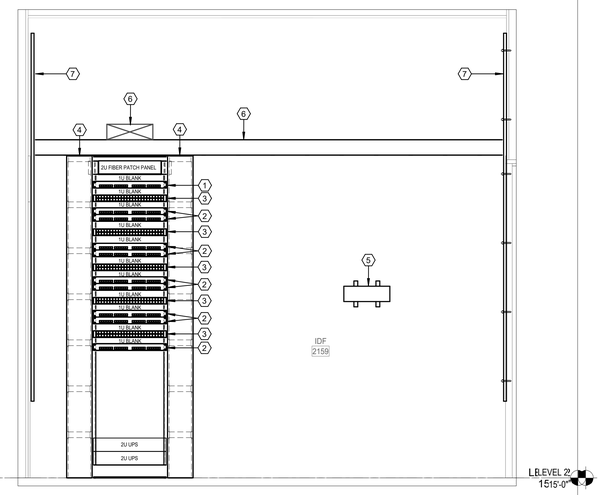
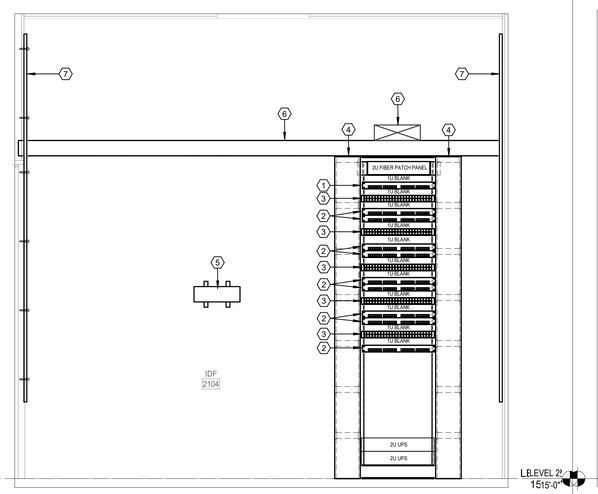
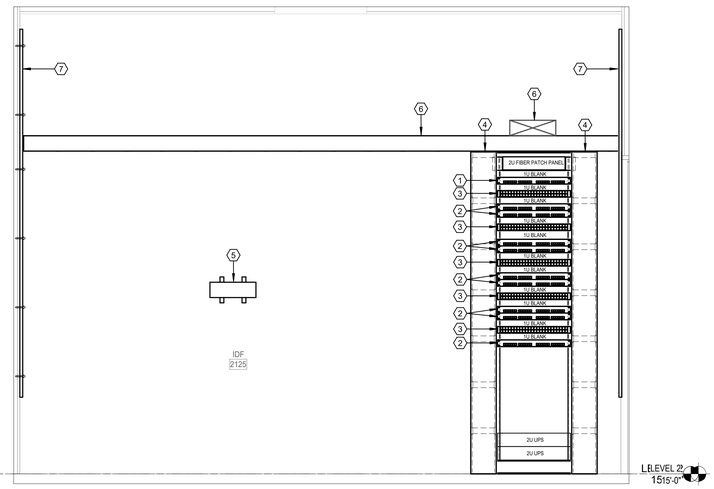


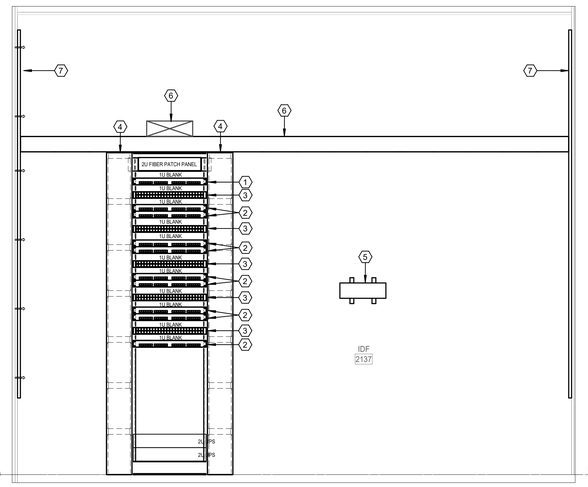
4 IDF 2159 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



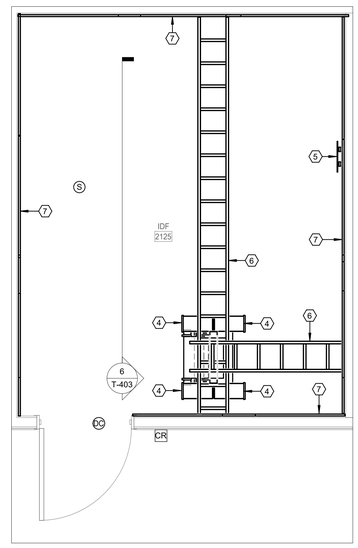
5 IDF 2104 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



6 IDF 2125 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



7 IDF 2137 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



8 2ND FLOOR TECHNOLOGY PLAN - IDF 2125 ENLARGED
SCALE: 1/2" = 1'-0"

Plot Stamp:
12/3/2025 5:39:44 PM

TECHNOLOGY SECTIONS - 2ND FLOOR MP IDF CLOSETS
T-403
FOR BLUEBEAM LABELING/OCR:

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1000 Keene St.
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ISSUE FOR PROPOSAL

Galena Park ISD

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - 2ND FLOOR MP IDF CLOSETS

T-403

TECHNOLOGY SECTIONS - 3RD FLOOR MP IDF CLOSETS
T-404
FOR BLUEBEAM LABELING/OCR:

TECHNOLOGY SECTION PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. RACKS SHALL BE 45U 2-POST RACKS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

C. DRAWING SHOWS TYPICAL DISTRICT RACK LAYOUT FOR IDF RACK. IN THIS TYPICAL DESIGN, ASSUME 13U OF SPACE BETWEEN BOTTOM-MOST BLANK PLATE AND TOP-MOST UPS.

TECHNOLOGY SECTION PLAN KEYED NOTES

1. 24-PORT MODULAR PATCH PANEL
2. (2) 24-PORT OR (1) 2U 48-PORT MODULAR PATCH PANEL(S)
3. OFOI 48-PORT NETWORK SWITCH
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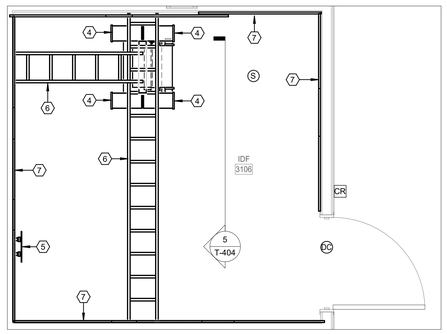
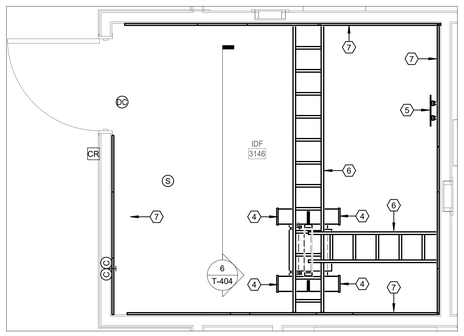
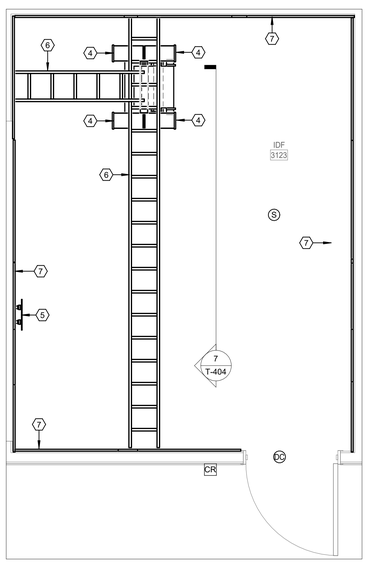
8. INDICATES AV RACK INTENDED FOR HOUSING EQUIPMENT FOR MULTIPURPOSE SPACE.



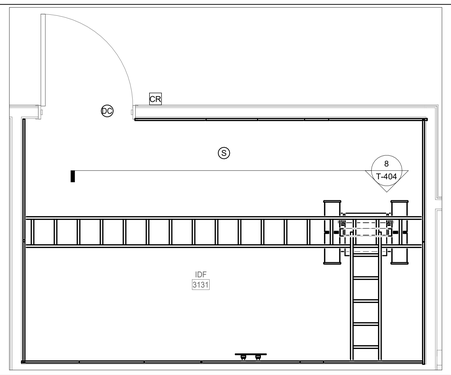
1 3RD FLOOR TECHNOLOGY PLAN - IDF 3106 ENLARGED
SCALE: 1/2" = 1'-0"



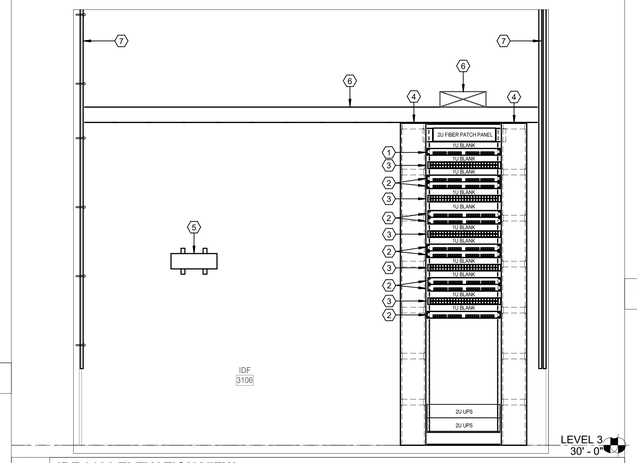
2 3RD FLOOR TECHNOLOGY PLAN - IDF 3146 ENLARGED
SCALE: 1/2" = 1'-0"



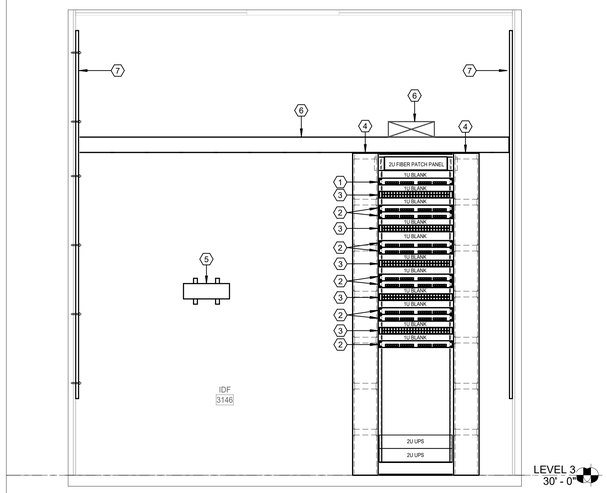
3 3RD FLOOR TECHNOLOGY PLAN - IDF 3123 ENLARGED
SCALE: 1/2" = 1'-0"



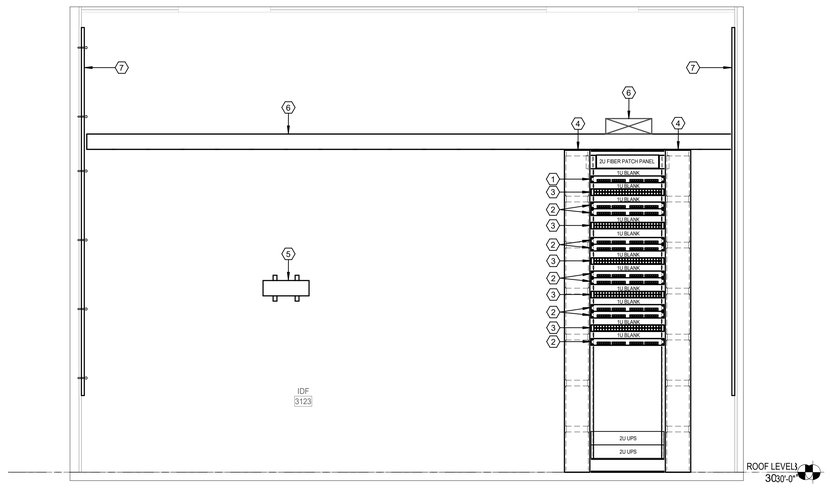
4 3RD FLOOR TECHNOLOGY PLAN - IDF 3131 ENLARGED
SCALE: 1/2" = 1'-0"



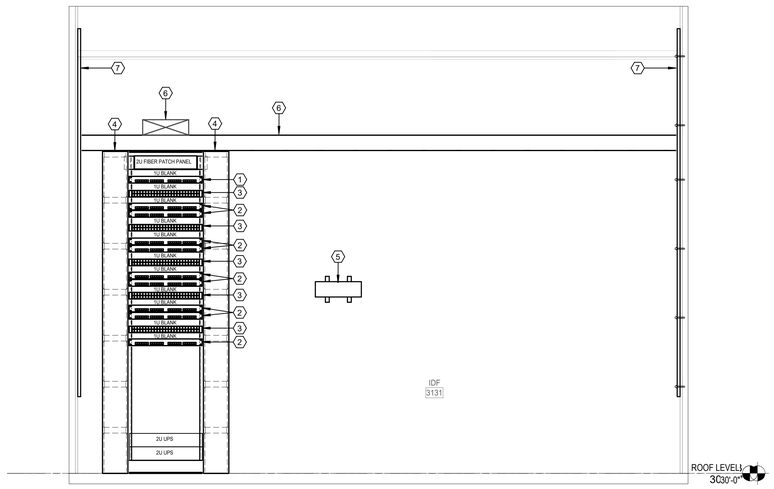
5 IDF 3106 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



6 IDF 3146 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



7 IDF 3123 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



8 IDF 3131 ELEVATION VIEW
SCALE: 3/4" = 1'-0"

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GP
EXCELLENCE IN ALL FOR ALL

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DONALD C. RICHARDS
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LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - 3RD FLOOR MP IDF CLOSETS

T-404

Plot Stamp:
12/3/2025 5:39:51 PM

0"

1"

TECHNOLOGY SECTION PLAN GENERAL NOTES

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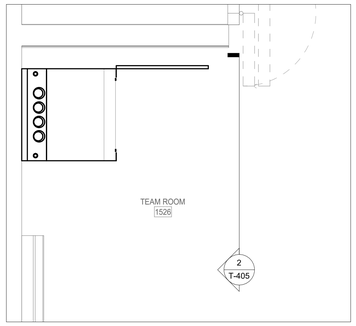
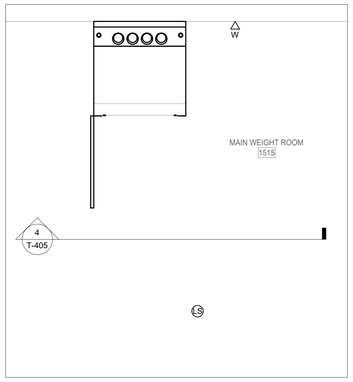
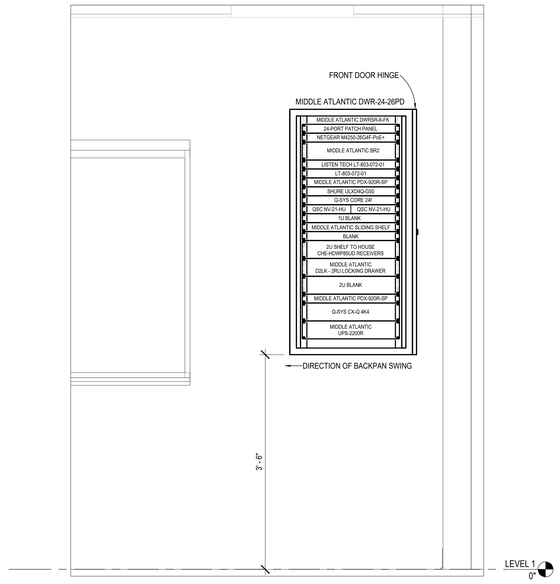


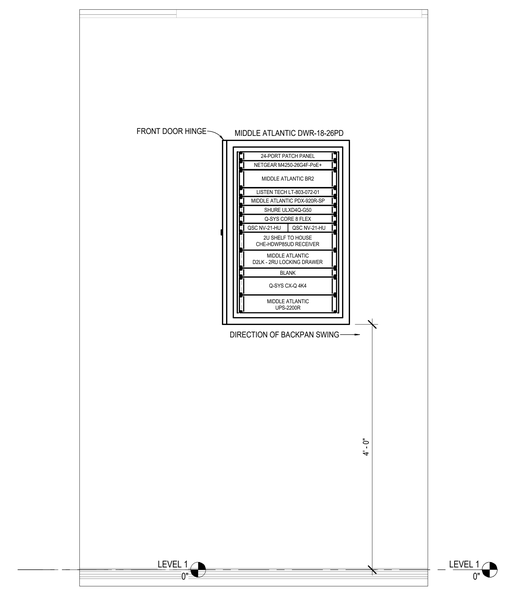
1 1ST FLOOR TECHNOLOGY PLAN - TEAM ROOM 1526 LOCAL SOUND ENLARGED
SCALE: 3/4" = 1'-0"



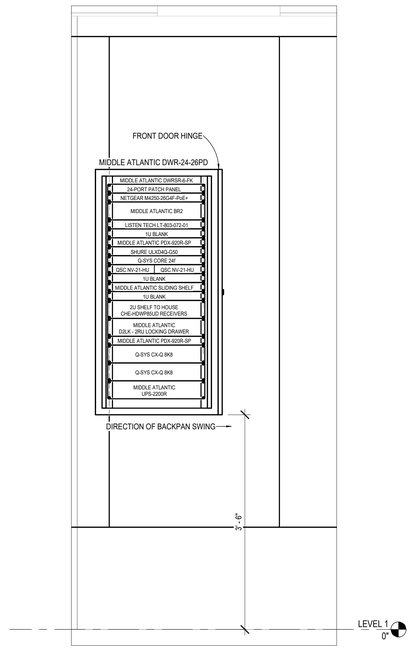
3 1ST FLOOR TECHNOLOGY PLAN - MAIN WEIGHT ROOM 1515 LOCAL SOUND ENLARGED
SCALE: 3/4" = 1'-0"



2 TEAM ROOM 1526 LOCAL SOUND RACK ELEVATION
SCALE: 1" = 1'-0"



4 MAIN WEIGHT ROOM 1515 LOCAL SOUND RACK ELEVATION
SCALE: 1" = 1'-0"



5 IDF 1129 AV RACK ELEVATION
SCALE: 1" = 1'-0"

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Galena Park, TX 77547

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Galena Park ISD

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - LOCAL SOUND RACKS

T-405

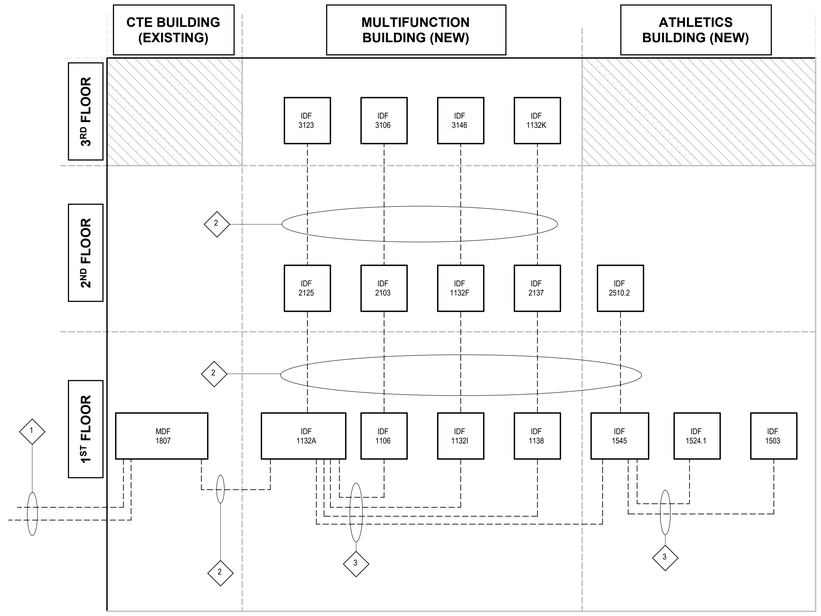
TECHNOLOGY SECTIONS - LOCAL SOUND RACKS
T-405
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/3/2025 5:39:53 PM

0"

1"

TECHNOLOGY RISER DIAGRAMS
T-501
FOR BLUEBEAM LABELING/DOOR:



TECHNOLOGY GENERAL NOTES:

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. REFER TO SITE PLAN FOR GENERAL SUBGRADE ROUTING OF CONDUIT AND CABLING.

TECHNOLOGY KEYED NOTES:

1. INDICATES INCOMING COMMUNICATIONS CABLING PROVIDED BY OWNER'S SERVICE PROVIDERS ROUTED FROM EDGE OF KEENE STREET THROUGH SUBGRADE CONDUIT PATHWAY AND STUBBED UP INTO INDICATED IDF IN NEW MP BUILDING, AND ROUTED ACROSS FOOTBRIDGE CHASE INTO EXISTING MDF 1807 IN CTE BUILDING.
2. INDICATES (1) 6-STRAND, SINGLE-MODE FIBER CABLE ROUTED THROUGH PLENUM FROM MDF TO EACH INDICATED IDF, AS WELL AS FROM EACH IDF TO SUBSEQUENT IDF ON INDICATED FLOOR VIA FLOOR PASS-THROUGH AND PLENUM CHASE.
3. INDICATES (1) 6-STRAND, SINGLE-MODE FIBER CABLE ROUTED SUB-GRADE THROUGH PROVIDED CONDUIT PATHWAY FROM AND TO SUBSEQUENT IDF ON INDICATED FLOOR.

1 MDF-IDF CABLING INTERCONNECTIONS
SCALE: NOT TO SCALE

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DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
CIVIL

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY RISER DIAGRAMS

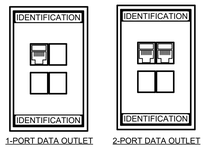
T-501

Plot Stamp:
12/3/2025 5:39:53 PM

TECHNOLOGY DETAILS
T-701

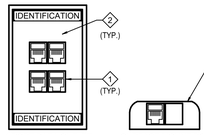
FOR BLUEBEAM LABELING/DOOR:

0"
1"



1-PORT DATA OUTLET

2-PORT DATA OUTLET



4-PORT DATA OUTLET

SURFACE MOUNT BOX 2-PORT

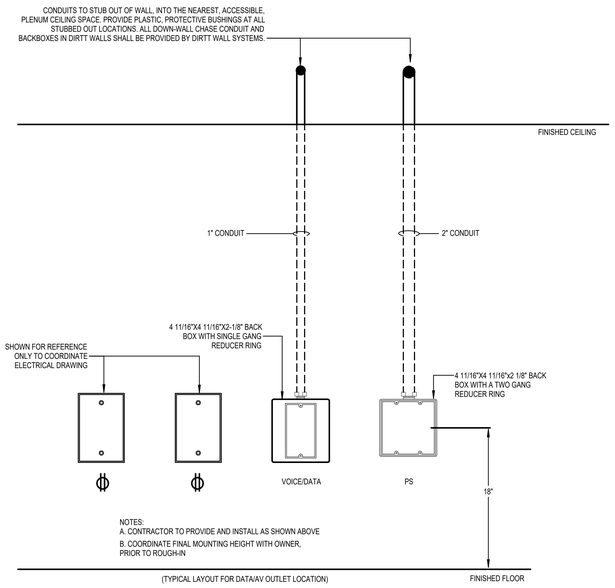
NOTES:

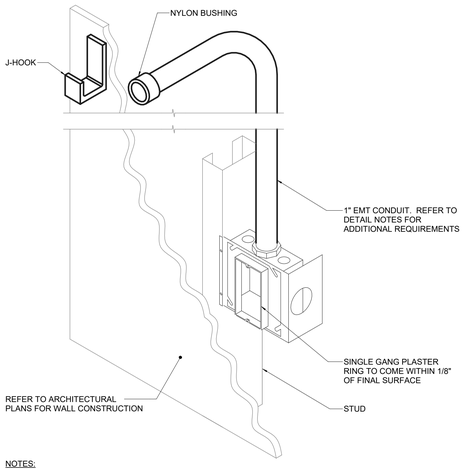
A. REFER TO SPECIFICATION - HORIZONTAL CABLING REQUIREMENTS FOR CATEGORY CABLE PERFORMANCE REQUIREMENTS.
B. ALL FACEPLATES SHALL BE A 4-PORT, FLUSH-MOUNTED, 110 STYLE, STAINLESS STEEL IN COLOR FOR ALL DATA OUTLETS.
C. REFER TO SPECIFICATION - IDENTIFICATION FOR DATA OUTLET PORT IDENTIFICATION.
D. DATA OUTLET SHALL BE INSTALL IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. REFER TO DETAIL 2/T-701 TECHNOLOGY ROUGH-IN MOUNTING DETAILS FOR CONDUIT SIZE.
E. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS.
F. USE T568B WIRING SCHEME TO TERMINATE THE TWISTED-PAIR CABLE ONTO THE CONNECTOR INTERFACE.
G. WHERE APPLIES PER PLANS, PROVIDE AV OUTLET WITH HDMI CONNECTION PER BELOW.
   - PANDUIT COVER PLATE: CBEIWY OR APPROVED EQUAL.
   - PANDUIT JACK (HDMI 2.0) CMHDMIW OR APPROVED EQUAL
   - PANDUIT MODULAR INSERT: CHF2IW-X OR APPROVED EQUAL

KEYNOTE NOTES:

1. PROVIDE CAT6 RJ-45 JACKS, 8-POSITION, 8-CONTACT (8P8C), COLOR BLUE FOR DATA, WHITE FOR VOICE.
   - PANDUIT PRODUCTS "CJ688TGxx", OR APPROVED EQUAL.
2. PROVIDE 1,2,4,6-PORT FACEPLATE AS INDICATED ON DRAWINGS.
   - 2-PORT: 42080-2WP.
   - 4-PORT: 42080-4WS.
   - 6-PORT: 42080-6WP.
3. PROVIDE SURFACE MOUNT BOX, PLENUM RATED, MOUNTED ABOVE CEILING FOR CONNECTIONS TO WIRELESS ACCESS POINTS.
   - Panduit #CBX2WH-AY.
4. PROVIDE 1' patch cords for each CAT6. Leviton P/N: 6D460-01L.
5. PROVIDE 1' patch cords for each CAT6A. Leviton P/N: H6A10-1Y.
6. PROVIDE 15' station cords for each CAT6. Leviton P/N: 6D460-15L.
7. PROVIDE 10' station cords for each CAT6. Leviton P/N: H6A10-10Y

4 DATA OUTLET DETAILS
SCALE: 12" = 1'-0"

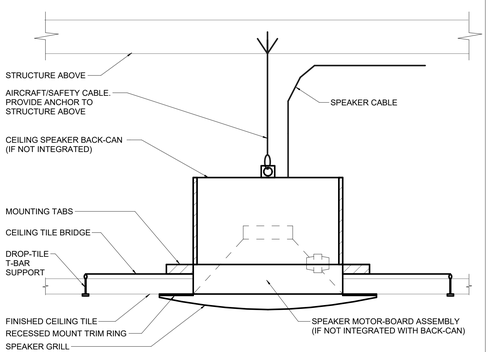




NOTES:

1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

3 TECHNOLOGY ROUGH-IN DETAILS
SCALE: 12" = 1'-0"

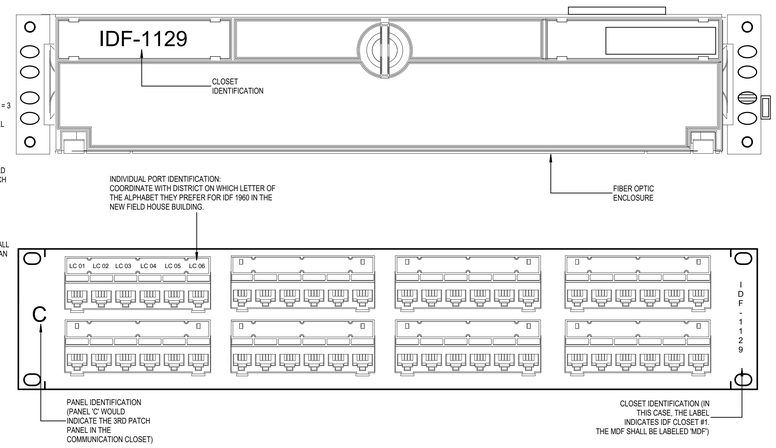


NOTES:

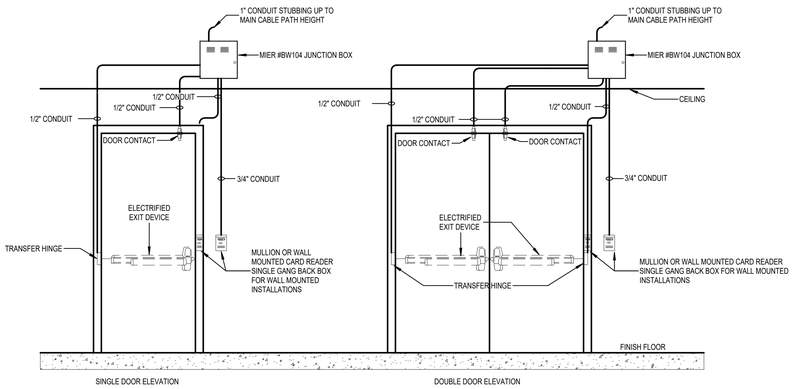
1. WHERE SUPPORTS ATTACH TO METAL ROOF DECKING, EXCLUDING CONCRETE ON METAL DECKING, DO NOT EXCEED 25 LBS. PER HANGAR AND A MINIMUM SPACING OF 2'-0" ON CENTER. THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ELECTRICAL AND MECHANICAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, THE ADDITION OF SUPPLEMENTAL FRAMING OFF STEEL FRAMING WILL BE REQUIRED.

LABELING AND PATCHING GENERAL NOTES:

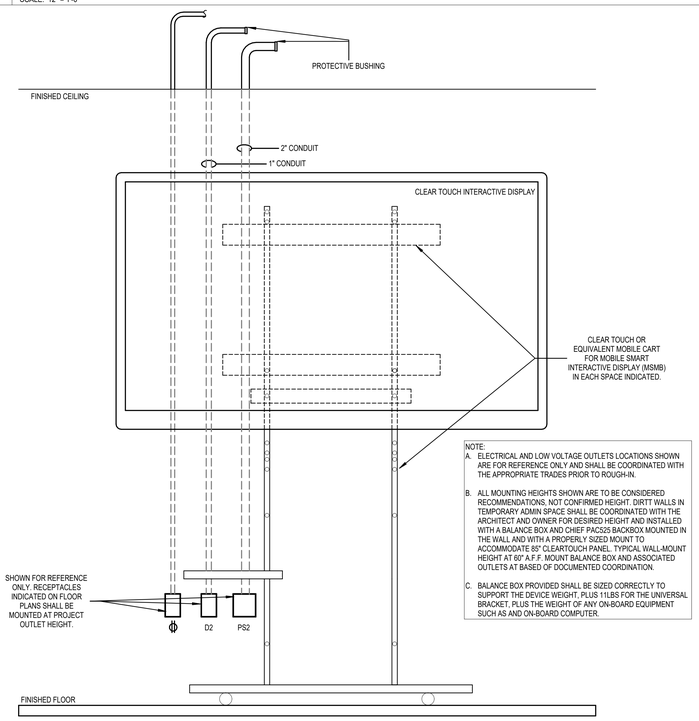
1. LABELS SHALL BE GENERATED IN THE FOLLOWING PATTERN ON THE PATCH PANELS:
   - XY ##
     a. X IS CLOSET DESIGNATION, MDF = A, IDF1 = B, IDF@ = C
     b. Y IS PATCH PANEL DESIGNATION, A = 1, B = 2, C = 3
     c. ## IS PATCH PANEL PORT NUMBER
     d. EXAMPLE AA01 DESIGNATES MDF, PATCH PANEL A, PORT 1.
2. WAP ON RACK SHOULD BE LABELED WAP XY##
3. SECURITY CAMERA RUNS (GREEN KEYSTONES) SHOULD OCCUPY THE RIGHT-MOST 6 - 12 PORTS ON EACH PATCH PANEL.
4. PATCH PANEL PORT LABELING SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THAN 1/4" IN HEIGHT.
5. PATCH PANEL AND CLOSET IDENTIFICATION LABEL SHALL BE MACHINE GENERATED AND SHALL NOT BE LESS THAN 1/8" HEIGHT.
6. COORDINATE EXACT LABELING SCHEME WITH OWNER AND ENGINEER.



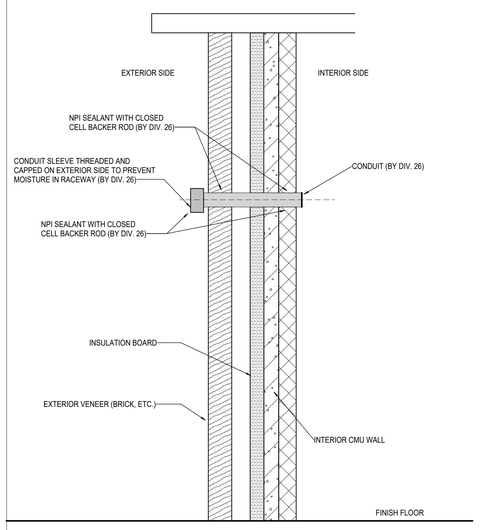
7 FIBER ENCLOSURE/ COPPER PATCH PANEL LABELING DETAIL
SCALE: 12" = 1'-0"



8 TYPICAL INSTRUCTORS 'PS' OUTLET
SCALE: 12" = 1'-0"

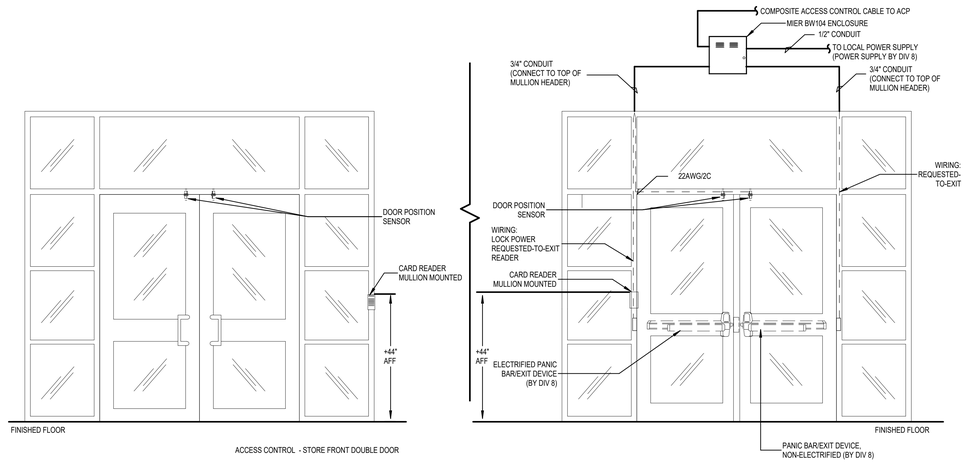


5 CEILING SPEAKER MOUNTING
SCALE: 12" = 1'-0"



6 WALL PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0"

9 LVACS-03 - ACCESS CONTROL - EXIT DEVICE DOOR ELEVATION
SCALE: 12" = 1'-0"



1 TYPICAL INTERACTIVE 'MSMB' DISPLAY DETAIL
SCALE: 12" = 1'-0"

2 STOREFRONT ACCESS CONTROL - TYPICAL
SCALE: 12" = 1'-0"

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EXCELLENCE IN ALL FOR ALL STUDENTS

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

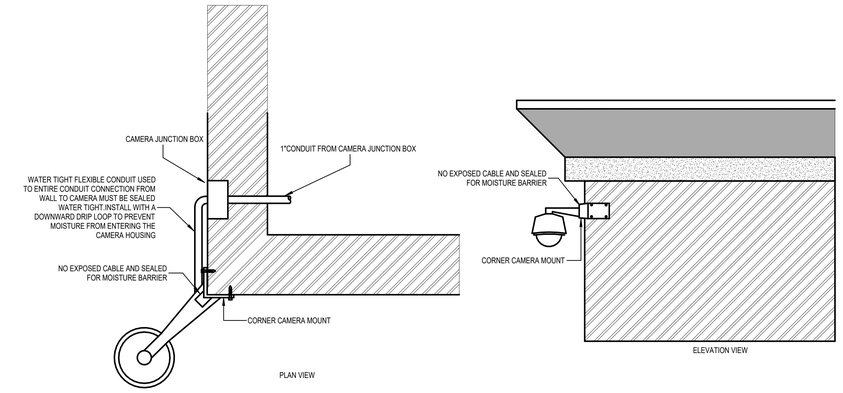
CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY DETAILS

T-701

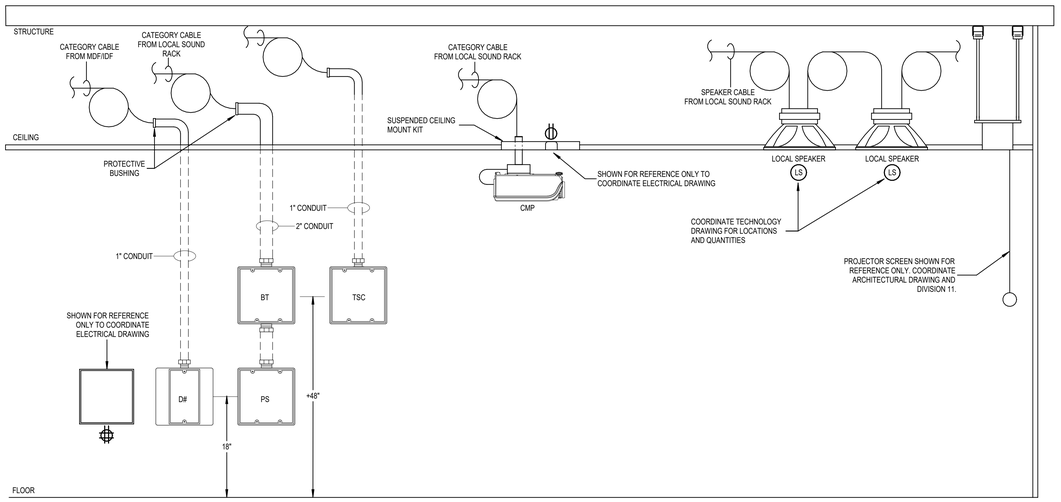
TECHNOLOGY DETAILS
T-702
FOR BLUEBEAM LABELING/DOOR:

0"
1"

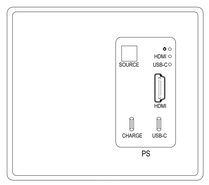


NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT WITH PULL STRING TO NEAREST AVAILABLE PLENUM SPACE. SECURITY CONTRACTORS SHALL PROVIDE CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

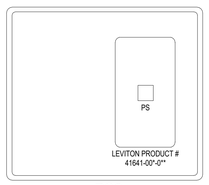
1 CORNER MOUNTING DETAIL
SCALE: 12" = 1'-0"



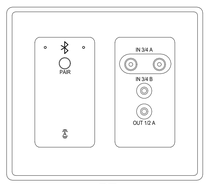
5 DIVIDE/COMBINE ROOM - TYPICAL
SCALE: 12" = 1'-0"



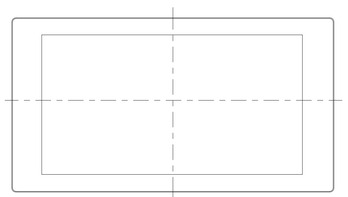
PS
2-GANG DECORA STYLE WALLPLATE, LEVITON PRODUCT NO. 80608-* COMPREHENSIVE PRODUCT # CHE-HDWP86UD TRANSMITTER



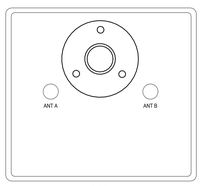
PS2
2-GANG DECORA STYLE WALLPLATE, LEVITON PRODUCT NO. 80608-* WITH BLUE KEYSTONE FOR DATA PORT. PROVIDE 3FT CAT6 CABLE TO PATCH TO RECEIVER



BT
2-GANG ATTERO TECH PRODUCT # unD6I0-BT



TSC
Q-SYS TSC-70-G3 WITH MOUNTING BRACKET

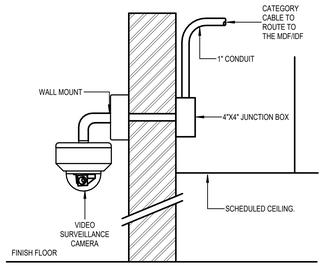


W
DOUBLE GANG ANODIZED PLATE. BLACK WITH 2 QTY 50 OHM BNC CONNECTORS AND 1 QTY ATLAS SOUND AD-12BE

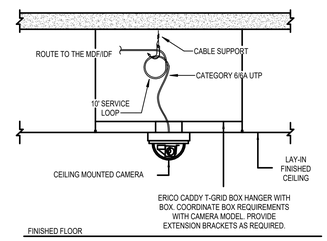


H
LEVITON PRODUCT # 84013-40

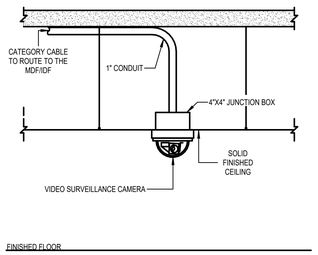
10 OTHER PLATE DETAILS
SCALE: 6" = 1'-0"



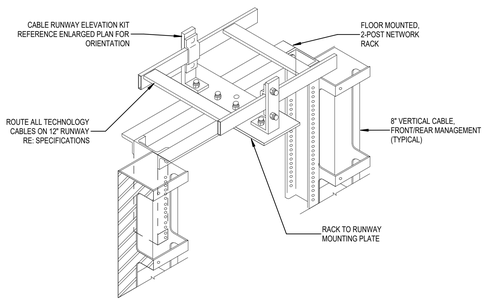
2 EXTERIOR WALL MOUNTED DOME CAMERA
SCALE: 12" = 1'-0"



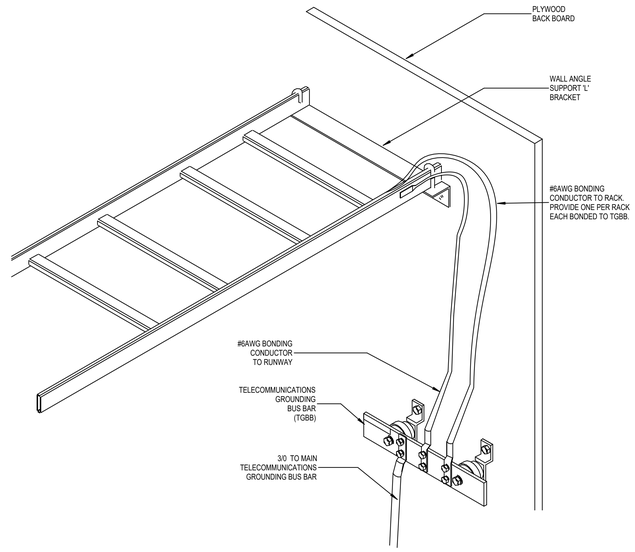
3 INTERIOR LAY-IN CEILING MOUNTED CAMERA
SCALE: 12" = 1'-0"



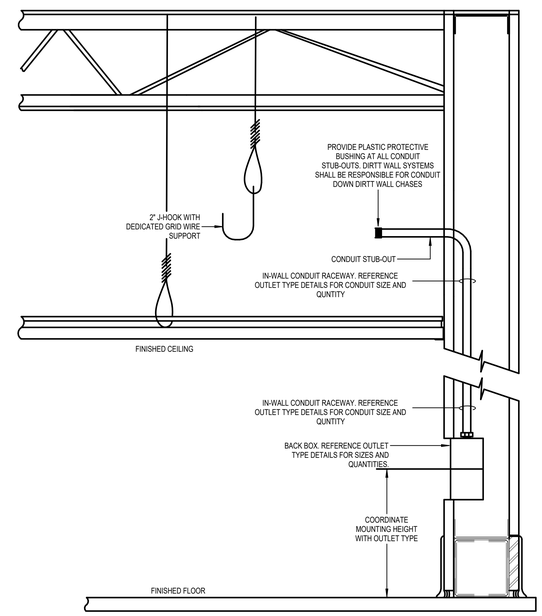
4 SOLID CEILING MOUNT CAMERA
SCALE: 12" = 1'-0"



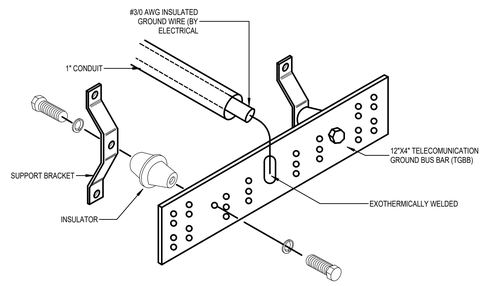
6 RACK TO RUNWAY DETAIL
SCALE: NOT TO SCALE



8 CABLE RUNWAY - GROUNDING AND BONDING
SCALE: 12" = 1'-0"



9 LOW VOLTAGE ELEVATION - IN-WALL RACEWAY
SCALE: 12" = 1'-0"



7 TELECOMMUNICATION GROUNDING BUS DETAIL
SCALE: 12" = 1'-0"

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LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY DETAILS

T-702