PBK
Architecture
Engineering
Planning
Technology
Facility Consulting

11 Greenway Plaza
Suite 2210
Houston, Texas 77046-1104
Telephone: 713/965-0608
Fax: 713/961-4571

ADDENDUM NO. 03
December 19, 2025

To Drawings and Specifications dated December 05, 2025.

PKG 3B – GPHS ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY

Prepared by: PBK
11 Greenway Plaza, 22nd Floor
Houston, TX 77046-1104
PBK Project No: 240539

Notice to Bidders

A. Receipt of this Addendum shall be acknowledged on the Bid Form.
B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.
C. Each bidder shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

GENERAL

Item No. 01 Pre-proposal Questions

Question 01: 18 months is a very aggressive timeline to complete both portions of the project. Could substantial for the athletics complex be delivered later than the July 15, 2027.

i. Response: Substantial Completion of the project has been revised to November 01, 2027.

Question 02: Sheets A101A & B show several rooms with shelving units marked EQ9. The Equipment Schedule indicates 50 EQ4 wire shelving units, and 91 EQ7 wire shelving units from Uline are required. Only 79 EQ7 shelving units are shown. Please address discrepancy in the count. Specification 10 56 13 has 7 manufacturers listed as acceptable. Uline called out in the Equipment Schedule is not one of them. Please clarify which type of shelving is required.

i. Response: Equipment scheduled has been updated per sheet. A-101A only includes EQ7 with a count of 31. A-101B equipment schedule "count" updated.

Question 03: Specification 10 56 13 has 7 manufacturers listed as acceptable. Uline called out in the Equipment Schedule is not one of them. Please clarify which type of shelving is required

i. Response: Uline was removed from the equipment schedule

Question 04: Several rooms on A101F and A103F that also appear to have shelving. None of them are marked so that may be some other type of equipment. Please clarify these are CFCI metal shelving and what type.

i. Response: Equipment schedule has been added to sheet to show type, count, model, etc. these are CFCI. They have been tagged in plan.

Question 05: Please provide a flow diagram showing all piping connections.

i. Response: In Division 22, gas flow riser diagram provided in ADD 3 (RE: P-700 series), refer to floor plans for diagrammatic routing of other flow systems.

Question 06: A-101F indicates the Temp Band room 1131 should reference elevation page A-940. Page A-940 is missing from the plans. Please provide.

i. Response: Updated A-101F to not show elevation tags for page A-940. A-940 is not used.

Question 07: Is the ceiling on A-202A supposed to be ARC14 (Tectum) panels? The finish schedule indicates these panels are to be on the walls as well. Where are the wall panels located?

i. Response: The ceiling in A-202A is ARC14 - Tectum panels. The Ceiling Materials Legend has been updated to show this.

Question 08: According to the finish schedule on A-900, the ARC15 panels are supposed to be in the Collab/Flex Rooms. The RCPs for these rooms do not show baffles. Also, the RCPs for the Collab/Flex Rooms on floor 1 are hatched differently than the ones on floors 2 & 3. Please clarify.

i. Response: The Collab. Flex Rooms shown on sheets A-201C, A-201E, A-202C, A-202E, A-203C, and A-203E have been updated to include baffles. All associated RCPs have also been revised to reflect a consistent RCP across floors. Updated on ADD 3

Question 09: The landscape planting plans look to be incomplete. There are several plant abbreviations shown on the Planting Plans that either do not match or are not listed on the Planting Schedule, Sheet L4.00. Please clarify if this will be revised.

i. Response: Missing information provided on updated planting schedule. Updated on ADD 3.

Question 10: Mech Drawings. Please provide a flow diagram showing all piping connections.

i. Response: Chilled water submitted under Add 1. Heating water will be submitted under Add 3.

Question 11: Sheet A-202A. Please advise if there is any acoustical ceiling product in the competition gym ceiling. The reflected ceiling plan shows a pattern that looks like it could be a product, but that pattern is not shown on the ceiling materials legend.

i. Response: The ceiling in A-202A is ARC14 - Tectum panels. The Ceiling Materials Legend has been updated to show this.

Question 12: Sheet A101C. Please provide missing interior elevation label in Corridor C1100.2 on page A-101C, and any other missing interior elevation labels.

i. Response: Elevation tag corrected for Corridor C1100.2

Question 13: Sheets A-101B, A-936. Please provide page A-936 - interior restroom elevations. The page is in the sheet index but not included in the drawings.

i. Response: Sheets A-944, A-945, A-946, A-947 contain restroom elevations for each specific RR. (Sheet A-936 has been removed from the index)

Question 14: Spec 09 21 16. Please confirm that all gypsum board in the project us required to be moisture resistant paperless glass-mat gypsum board, equal to DensArmor Plus Fireguard interior guard. If required, please include in the specification section.

i. Response: Moisture resistant gypsum board to be provided in wet areas, including walls and ceilings. Refer to finish schedule and RCPs. Follow request for substitution for products not listed in the spec for further review and approval.

Question 15: Sheet A-821. Please provide glazing types for window frames W1 through W8.

i. Response: Please refer to note on sheet 02/A-821 - For glazing type, reference elevations. Glazing legend added to interior elevation sheets A-932, A-933, A-941, A-942, A-943 and exterior elevation sheets A-502, A-503, A-504, A-505

Question 16: Sheet A-821. Window callout W50 is shown at all standard classroom entrances in areas C-F, but it is not shown on the window elevations (Page A-821). Please provide an elevation for window W50.

i. Response: Please refer to sheet A-821 revised in ADD 03 for window W50 elevation.

Question 17: Sheet A201C. What ceiling is in room 1150 and 1113 Collab Flex Room, there is nothing matching in the legend for what it is?

i. Response: Sheets A-201C and A-201E have been updated with the correct ceiling type. The baffle has been added to the ceiling fixture legend.

Question 18: Sheet S-104C "Classroom Low Roof Framing Plan - Area C" denotes an edge elevation of BOD= XX'-X". Please confirm elevation.

i. Response: Classroom Low roof framing elevation is 45'-0" at all the exterior perimeter and slopes up higher toward column CE/C32, CM/32 and CE/C15, CM/15

Question 19: Sheet S-105B "Gym High Roof Framing Plan - Area B" denotes multiple columns with BOD=0'-0" elevation. Please confirm elevation.

i. Response: Gym high roof framing is at 47'-0" at all the exterior perimeter and slopes up higher toward the Ridge line at the middle with 48'-5"

Question 20: What size should the new cable tap box be? (If MSB Amperage is provided we can size this ourselves).

i. Response: (E)MSB is 4000 A. Updated riser to show size, see E-502, ELECTRICAL RISER DIAGRAM

Question 21: What size is the existing generator? Will it need new feeders?

i. Response: Generator is (E) existing no new work.

Question 22: Please provide amperages for the existing ATS switches "ATS1" and "ATS2".

i. Response: ATS1 and ATS2 2 are identified as (E) existing, no work is associated with the two transfer switches

Question 23: Please indicate whether the existing switchboards "MSA" and/or "MSB" will need new circuit breakers. None are currently shown.

i. Response: (E) Existing loads are indicated on panel schedule MSA, see EP-700. All loads not labeled as existing are new

Question 24: Please provide amperages and current schedule for MSB.

i. Response: Riser diagram updated to new work associated with MSB

Question 25: Please clarify the location of Mechanical Room A119 as we are unable to locate this room on the drawings. Is this in the existing Phase 2 building?

i. Response: Per the existing plans, the existing main mechanical room shared with the electrical room is labeled as Mechanical Room A119. Refer to sheet P-101Ha for DWP-1 which is in Mechanical Room A119.

Question 26: Please clarify if aluminum conductors are permitted as we are provided with an aluminum feeder schedule on E502 but nothing is mentioned in the "26 05 19 - Low Voltage Electrical Power Conductors and Cables Spec Section.

i. Response: Clarifying note added to Aluminum Schedule E-502, see Addendum 3

Question 27: Please clarify the location of the pad mounted transformer. It looks like its location is at the modular central plant building when Addendum 1 was issued but there are no labels or callouts.

i. Response: Label added, see ES-101A, Detail 3

Question 28: Light Fixtures L1, L2, L3 & L5 are shown Sheets ES-101 & ES-101A but are not listed on the light fixture schedule. Please clarify what these light fixture types are.

i. Response: Landscape fixtures are scheduled by landscape drawings, general note will be added in Addendum 3, ES-101 and ES-101A

Question 29: Specification 10.81.13 calls for the installation of bird spikes, but these are not noted on the plans for us to reference to collect the linear footage. Please include measurements, if possible.

i. Response: We do not have this product, it will be removed from the specs.

Question 30: Please clarify if the new upsized gas meter will by the utility company or if it will be in the contractor's scope of work.

i. Response: The new upsized gas meter will be provided by the utility company (built off-site and installed on-site). The Plumbing Contractor is responsible for coordinating exact meter location and connecting/distributing the downstream customer-side of the gas meter (5 PSI delivery).

Question 31: Sheets E301A through E301F that were issued in Addendum 1 added keynote 1 that has us refer to Detail 4 on sheet E602 for the Pedestal Mount. There is no detail on this sheet. Please provide.

i. Response: Revised drawing will be provided with Addendum 3.

Question 32: Please provide a specification for the retractable netting system in the Multi-Purpose Room.

i. Response: 11 66 23.IC. Refer to spec attached.

Question 33: C101 calls for a proposed new field light at the plan northwest corner of Denton Field. The callout has us refer to the either the Structural or MEP plans but nothing is indicated on these sheets. Please clarify.

i. Response: Additional details added to site plan see ES-101, ELECTRICAL SITE PLAN.

Question 34: Sheet S-011 has a list of structural allowances that is not represented in 01 21 00. Allowance D – Misc Steel Allowance of $168,000 is the only one covered. Please advise.

i. Response: Other structural allowances have been removed, only miscellaneous steel allowance is noted in 01 21 00 and District's Volume 01.

Question 35: Please re-issue sheet A-811 as there are several doors that were cutoff the page due to an alignment issue when it was re-issued in Addendum 1.

i. Response: Sheet has been re-issued in ADD 03.

Question 36: Please provide the HW Flow Diagram for the new Boiler System.

i. Response: M-403 thru M-405 included in this addendum has the hot water piping diagrams.

Question 37: Regarding the clock system, the plans call for several new clocks to be added to the high school system. However 27 51 23 calls for an IP based clock type. The specification conflicts with the existing system which is wireless sync powered by 110 volt ac. We recommend changing the specification to match the existing system.

i. Response: Phase 02 addition and future phases shall use IP-based clock systems per District Standards.

Question 38: Can the as-built drawings for the Phase 2 - CTE building be provided?

i. The connection between the CTE building and academic wing will be created by selectively removing adjacent wall sections. The buildings will remain structurally independent.

Question 39: 2/L4.03 shows an area of sod with trees along Keene Street while C402 shows sidewalk covering this entire area. Please clarify.

i. Follow Landscape drawing - 2/L4.03.

Question 40: On Sheet S-507/ Metal Roof Decking/ Metal Deck Schedule it calls for the gauge of the metal roof deck to be a 20-gauge Metal Roof Deck. On the same sheet detail listed Steel Roof Deck (with rigid insulation board) /4.1 it calls for the deck to be a 22-gauge metal roof deck and it also calls for the Metal Roof Deck (with Lightweight Insulating Concrete) to be a 22-gauge Metal Roof Deck under detail 4.1. When you go to all of the structural sheet for the roof framing areas it calls for the Metal Roof Deck to be a 20-gauge metal roof deck. Which one should we use for our proposal?

i. Response: Please follow the metal deck schedule and the roof plan sheets with the call out for 20 gauge and disregard the 22-gauge callout. Revised sheet attached.

Question 41: Please clarify the manufacturer for the modular planter and podium system. L2.00 calls for "Vestre" and they informed us that what is shown in the drawings is not made by them but is made by Streetlife.

i. Response: StreetLife is the correct manufacturer. Updated L2.00 included in Addendum 03.

Question 42: Per discussion in the pre-bid, can a phasing plan be provided for the construction of the academic and athletic buildings?

i. Response: Please see phasing plan attached for bidder's reference.

Question 43: Request for substitution.

i. Response: refer to attached for approved and/or rejected products submitted for review.

SPECIFICATIONS

Item No. 1 **11 66 23- GYM EQUIPMENT**

A. Issued specification in its entirety.

Item No. 2 **10 81 13- Bird Control Devices**

A. Excluded from specification

Item No. 03. **22 11 23 – DOMESTIC WATER PRESSURE BOOSTER SYSTEM**

1) Clarify booster system is four motor (quadruplex) instead of two motor (duplex); section 2.2(A).

2) Clarify booster system make/model given the change in motor quantity, section 2.2(I).

Item No. 04. **22 40 00 – PLUMBING FIXTURES**

1) Clarify lab sink fixture tags, add LS – A and LS – B for stainless steel basin at science labs without acid waste discharge. Update floor plans accordingly. Section 2.5(D)

DRAWINGS

CIVIL

Item No. 01 C003- DEMOLITION PLAN

A. Addition of demolition items for installation of domestic and fire line.
B. Addition of demolition of exist. curb and gutter.
C. Addition of pole and sign removal
D. Relocation of exist. field light.

Item No. 02 C101- SITE PLAN

A. Removal of sidewalk
B. Relocation of gate
C. Removal of curb
D. Addition decorative fence and mow strip

Item No. 03 C201- UTILITY PLAN

A. Relocation of domestic and fire line

Item No. 04 C301- DRAINAGE PLAN

A. Update on prop. storm flowlines
B. Addition of downspouts runner

Item No. 05 C401- GRADING PLAN

A. Update on grading elevations

Item No. 06 C 402 PAVING PLAN

A. Revise paving as shown

Item No. 07 C601 - DETAILS

A. Addition of details

LANDSCAPE

Item No. 01 L2.00 MATERIALS NOTES AND SCHEDULE

A. Materials Schedule updated to show correct manufacturer.

Item No. 02 L4.00 PLANTING NOTES AND SCHEDULE

A. Missing plant information added to match planting plans

Item No. 03 L4.01 PLANTING PLAN

A. Callout updated to show correct plant species.

Item No. 04 L4.03 PLANTING PLAN ENLARGEMENTS

A. Planting callouts updated at the gym entry

STRUCTURAL

Item No. 01 SD-101M: Foundation Demo Plan – Existing Mechanical Yard

A. Modified existing scope as shown on plan

Item No. 02 SD-102M: Second Floor Demo Plan – Existing Mechanical Yard

A. Modified existing scope as shown on plan

Item No. 03 S-101A: Foundation Plan - Area A

A. Modified slab note annotation as shown on plan

Item No. 04 S-101B: Foundation Plan - Area B

A. Modified foundation as shown on plan
B. Modified/added section as shown on plan
C. Modified/added dimensions as shown on plan
D. Shifted brace 4/S-601 as shown on plan

Item No. 05 S-101C: Foundation Plan - Area C

A. Modified/added dimensions as shown on plan
B. Removed MBPL tag as shown on plan
C. Modified grade beam sizes

Item No. 06 S-101D: Foundation Plan - Area D

A. Modified/added dimensions as shown on plan
B. Removed MBPL tag as shown on plan
C. Modified grade beam sizes

Item No. 07 S-101E: Foundation Plan - Area E

A. Modified/added dimensions as shown on plan
B. Removed MBPL tag as shown on plan
C. Modified grade beam sizes

Item No. 08 S-101F: Foundation Plan - Area F

A. Modified/added dimensions as shown on plan
B. Removed MBPL tag as shown on plan
C. Modified grade beam sizes

Item No. 09 S-101G: Foundation Plan - Area G

A. Modified/added dimensions as shown on plan
B. Removed MBPL tag as shown on plan
C. Modified grade beam sizes

Item No. 10 S-101M: Foundation Plan - Area M

A. Modified 1/S-101M Central Plant Foundation Plan

Item No. 11 S-102A: Second Floor Framing Plan - Area A

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan

Item No. 12 S-102B: Second Floor Framing Plan - Area B

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan
C. Modified/added miscellaneous tube steel as shown on plan
D. Shifted brace 4/S-601 as shown on plan

Item No. 13 S-102C: Second Floor Framing Plan - Area C

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan
C. Modified/added miscellaneous tube steel as shown on plan

Item No. 14 S-102D: Second Floor Framing Plan - Area D

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan
C. Modified/added miscellaneous tube steel as shown on plan

Item No. 15 S-102E: Second Floor Framing Plan - Area E

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan
C. Modified/added miscellaneous tube steel as shown on plan

Item No. 16 S-102F: Second Floor Framing Plan - Area F

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan
C. Modified/added miscellaneous tube steel as shown on plan

Item No. 17 S-103A: Third Floor Low Roof Framing Plan - Area A

A. Modified/added sections as shown on plan

Item No. 18 S-103B: Third Floor Framing Plan - Area B

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan
C. Shifted brace 4/S-601 as shown on plan

Item No. 19 S-103C: Third Floor Framing Plan - Area C

A. Modified/added sections as shown on plan
B. Modified/added BOA dimensions as shown on plan

Item No. 20 S-103D: Third Floor and Low Roof Framing Plan - Area D

A. Modified framing as shown on plan
B. Modified/added BOA dimensions as shown on plan

Item No. 21 S-103E: Third Floor Framing Plan - Area E

A. Modified/added BOA dimensions as shown on plan

Item No. 22 S-103F: Third Floor and Low Roof Framing Plan - Area F

A. Modified framing as shown on plan
B. Modified/added BOA dimensions as shown on plan

Item No. 23 S-104C: Gym Low Roof Framing Plan - Area C

A. Modified framing as shown on plan.
B. Modified roof deck gauge in the plan notes.
C. Modified/added mechanical unit annotations as shown on plan

Item No. 24 S-104D: Classroom Low Roof and Floor Framing Plan - Area D

A. Modified/added framing as shown on plan
B. Modified/added mechanical unit annotations as shown on plan.
C. Modified roof deck gauge in the plan notes.

Item No. 25 S-104E: Classroom Low Roof Framing Plan - Area E

A. Modified framing as shown on plan
B. Modified/added mechanical unit annotations as shown on plan.
C. Modified roof deck gauge in the plan notes.

Item No. 26 S-104F: Classroom Low Roof and Floor Framing Plan - Area F

A. Modified framing as shown on plan.
B. Modified roof deck gauge in the plan notes.
C. Modified/added mechanical unit annotations as shown on plan

Item No. 27 S-105B: Gym High Roof Framing Plan - Area B

A. Shifted brace 4/S-601 as shown on plan.
B. Modified roof deck gauge in the plan notes.
C. Modified/added mechanical unit annotations as shown on plan

Item No. 28 S-105G: Classroom High Roof Framing Plan - Area G

A. Modified framing as shown on plan.
B. Modified roof deck gauge in the plan notes.

Item No. 29 S-300: General Concrete and Steel Reinforcement Notes and Typical Details

A. Modified concrete mixed design schedule

Item No. 30 S-303: General Foundation Notes and Typical Details

A. Modified straight shaft pier notes

Item No. 31 S-303SF: General Foundation Notes and Typical Details

A. Modified Spread footing schedule
B. Modified typical pilaster at spread footing detail

Item No. 32 S-311: Foundation Details

A. Modified detail 6/S-311

Item No. 33 S-321: Site Items Foundation Sections and Details

A. Modified detail 6/S-321

Item No. 34 S-507: General Steel Notes and Typical Details

A. Modified metal roof decking schedule.

Item No. 35 S-508: General Steel Notes and Typical Details

A. Modified detail 10/S-508

Item No. 36 S-512: Composite Framing Details

A. Added detail 8/S-512

Item No. 37 S-513: Composite Framing Details

A. Modified detail 3 & 4/S-513

Item No. 38 S-514: Composite Framing Details

A. Added details 4, 6, 7, 8 & 9/S-514

Item No. 39 S-526: Roof Framing Details

A. Added detail 3 & 8/S-526

Item No. 40 S-530: Building Sections

A. Modified section 1/S-530

Item No. 41 S-531: Building Sections

A. Modified section 3/S-531

Item No. 42 S-532: Building Sections

A. Modified section 3/S-532

Item No. 43 S-601: Typical Wind Bracing Elevations - Area B

A. Relocated elevation 4/S-601

ARCHITECTURAL

Item No. 01 G-101 – 1st Floor – Code Review

A. Added dimensions to the MPF

B. Relocated & added Fire extinguishers

Item No. 02 G-102 – Wall Sections

A. Updated the travel distance for Area B

B. Relocated & added Fire extinguishers

Item No. 03 G-103 – Wall Sections

A. FEC relocation and addition

Item No. 04 G-060 – Construction Phasing Plan

A. New sheet added in its entirety

Item No. 05 ASD-101 – Demolition Site Plan

A. Added survey to the background

Item No. 06 AS-402 – Enlarged Site Plan

A. Updated handrails/guardrails

B. Added planters to match landscape drawings

C. Reduced the stair width

Item No. 07 AS-403 – Enlarged Site Plan

A. Updated handrails/guardrails

B. Added planters to match landscape drawings

C. Reduced the stair width

Item No. 08 AS-711 – Site Details

A. Detail 12: Removed

Item No. 09 A-101A – Level 1 - Area A Floor Plan

A. Added restroom interior elevations tags to: 1501 & 1506

B. Added W2 window tag for the transaction window at ticket booth

C. Updated the equipment schedule

Item No. 10 A-101B – Level 1 - Area B Floor Plan

A. Added restroom interior elevations tags to: 1540.1, 1542, 1532, 1541.2, 1529.2, 1516, 1517, 1530.

B. Updated the equipment schedule for EQ4 and EQ7

C. Added keynotes

Item No. 11 A-101C – Level 1 - Area C Floor Plan

A. Added restroom interior elevations and tags to: 1152, 1153, 1154

Item No. 12 A-101D – Level 1 - Area D Floor Plan

A. Added keynotes

Item No. 13 A-101E – Level 1 - Area E Floor Plan

A. Added restroom interior elevations tags to: 1109, 1110, 1112, 1105, 1107.1

Item No. 14 A-101F – Level 1 - Area F Floor Plan

A. Added restroom interior elevations tags to: 1119

B. Added section tags and plan detail tags

C. Removed the elevation marker in the temp band rm #1131

D. Added keynotes

Item No. 15 A-102A – Level 2 - Area A Floor Plan

A. Added keynotes

Item No. 16 A-102B – Level 2 - Area B Floor Plan

A. Added restroom interior elevations tags to: 2507, 2508

B. Added keynotes

C. Moved the restrooms (2507 & 2508) south to avoid conflict with the expansion joint.

D. Relocated the drinking fountain.

Item No. 17 A-102C – Level 2 - Area C Floor Plan

A. Added restroom interior elevations tags to: 2149, 2151

Item No. 18 A-102D – Level 2 - Area D Floor Plan

A. Added keynotes

Item No. 19 A-102E – Level 2 - Area E Floor Plan

A. Added restroom interior elevations tags to: 2109, 2110, 2111

Item No. 20 A-102F – Level 2 - Area F Floor Plan

A. Added restroom interior elevations tags to: 2123, 2126
B. Added keynote for Wainscott tile in the corridor
C. Added section tags, plan detail tags and extended slab at bridge.

Item No. 21 A-103C – Level 3 – Area C Floor Plan

A. Added restroom interior elevations tags to: 3142, 3143, 3144

Item No. 22 A-103E – Level 3 – Area E Floor Plan

A. Added restroom interior elevations and tags to: 3109, 3110, 3111

Item No. 23 A-103F – Level 3 – Area F Floor Plan

A. Added keynote for Wainscott tile in the corridor
B. Added tags to the metal shelving in storage room 3120,3120.1 & 3121
C. Added elevation tag for casework in Spanish 2 (3122)
D. Fixed the column furr-out

Item No. 24 A-201 – Level 1 – Overall Ceiling Plan

A. Revised the ceiling plan for the collab/flex space (1150 & 1113)

Item No. 25 A-201C – Level 1 – Area C Ceiling Plan

A. Added baffles/gyp to the ceiling plan for the collab/flex space 1150
B. Added recessed can downlights

Item No. 26 A-201E – Level 1 – Area E Ceiling Plan

A. Added a furr down to avoid conflict with a brace. Added a section detail 04/A-731.
B. Added baffles/gyp to the ceiling plan for the collab/flex space 1113
C. Added recessed can downlights

Item No. 27 A-201F – Level 1 – Area F Ceiling Plan

A. Revised ceiling – new gyp furr down and ceiling tile, along with additional 2x4 light fixtures

Item No. 28 A-202 – Level 2 – Overall Ceiling Plan

A. Revised the ceiling plan for the collab/flex space: 2147 & 2113 and the corridor: C2700
B. Updated general notes
C. Updated the ceiling materials legend with tectum panels and moisture and mold resistant gyp
D. Updated ceiling fixture legend with suspended baffle

Item No. 29 A-202A – Level 2 – Area A Ceiling Plan

A. Added keynotes for the exposed ceiling at the gym
B. Added tectum ceiling panel at the gym
C. Updated general notes
D. Updated the ceiling materials legend with tectum panels, and moisture and mold resistant gyp
E. Updated ceiling fixture legend with suspended baffle

Item No. 30 A-202C – Level 2 – Area C Ceiling Plan

A. Added baffles/gyp to the ceiling plan for the collab/flex space 2147
B. Added recessed can downlights

Item No. 31 A-202D – Level 2 – Area D Ceiling Plan

A. Gyp transitions added to the ceiling plan
B. Added ceiling detail tag 01/A-731 – transition at sky bridge
C. Gyp detail added around the baffle ceiling at main street

Item No. 32 A-202E – Level 2 – Area E Ceiling Plan

A. Added baffles/gyp to the ceiling plan for the collab/flex space 2113
B. Added recessed can downlights

Item No. 33 A-203 – Level 3 – Overall Ceiling Plan

A. Revised the ceiling plan for the collab/flex space : 3700A & 3700B
B. Updated general notes

C. Updated the ceiling materials legend with tectum panels and moisture and mold resistant gyp
D. Updated ceiling fixture legend with suspended baffle

Item No. 34 A-203C – Level 3 – Area C Ceiling Plan
A. Added baffles/gyp to the ceiling plan for the collab/flex space 3700A
B. Added recessed can downlights

Item No. 35 A-203D – Level 2 – Area D Ceiling Plan
A. Added detail 03/A-731 at ceiling transition (C3700)

Item No. 36 A-203E – Level 2 – Area E Ceiling Plan
A. Added baffles/gyp to the ceiling plan for the collab/flex space 3700B
B. Added recessed can downlights
C. Added detail tag 07/A-731

Item No. 37 A-203F – Level 3 – Area F Ceiling Plan
A. Added baffles/gyp to the ceiling plan for the collab/flex space 3700B
B. Added recessed can downlights
C. Replaced detail 07/A-731
D. Fixed ceiling outside of Bio Lab 3112, added ceiling detail 04/A-731

Item No. 38 A-204 – Enlarged Ceiling plan
A. Added enlarged ceiling plan for flex/collab
B. Updated general notes
C. Updated the ceiling materials legend with tectum panels, and moisture and mold resistant gyp
D. Updated ceiling fixture legend with suspended baffle

Item No. 39 A-429 – Enlarged Skybridge Elevations & Sections
A. Added details 05,06 & 08
B. Detail 01/02: Added dimensions and fixed grid

Item No. 40 A-502 – Exterior Elevations
A. Detail 01/02/03: Added keynotes for canopy tieback metal plates
B. Adjusted downspout location (and dimensions) according to Avadek's recommendation.
C. Detail 01/02/03: Added coping cap around exterior stacked pilasters
D. Dimension adjusted for CW-21

Item No. 41 A-503 – Exterior Elevations
A. Added coping cap around exterior stacked pilasters

Item No. 42 A-504 – Exterior Elevations
A. Keynote added for the ladder
B. Added dimensions for control joints

Item No. 43 A-511 – Enlarged Exterior Elevations
A. Detail 01/02/03/04: Added keynotes & detail call outs
B. Detail 03: Adjusted coping

Item No. 44 A-513 – Enlarged Exterior Elevations
A. Detail 01/02/03: Added keynotes & dimensions

Item No. 45 A-621 – Wall Sections
A. Detail 01: Added detail call out 11/A-711

Item No. 46 A-623 – Wall Sections
A. Detail 05: Added detail call out 09/A-723
B. Added batt insulation

Item No. 47 A-626 – Wall Sections
A. Detail 01: Added new detail call out
B. Detail 02: Added new detail call out

Item No. 48 A-628 – Wall Sections
A. Added sheet in its entirety

Item No. 49 A-702 – Plan Details
A. Detail 03: Revised EJ details

Item No. 50 A-705 – Plan Details

A. Detail 03: Added EJ details

Item No. 51 A-711 – Masonry Wall Section Details

A. Detail 05/11: Added dimensions, and detail revised to show the angle.

Item No. 52 A-712 – Masonry Wall Section Details

A. New sheet added in its entirety

Item No. 53 A-713 – Masonry Wall Section Details

A. Detail 01/02: Removed
B. Detail 03/04/05/08/09/10 – Revised dimensions

Item No. 54 A-723 – Curtain wall details at Masonry Veneer

A. Detail 08: Revised the detail

Item No. 55 A-731 – Ceiling details

A. Added new details: 16 & 17

Item No. 56 A-810 – Door Schedule Level 01

A. Revised door fire rating for door C1100
B. Revised door types – some doors changed to NV-1 (with vision lite), those are to receive horizontal blinds.
C. Some doors were removed since they belong to the swing space/field house.

Item No. 57 A-811 – Door Schedule Level 02/03

A. Revised door types – some doors changed to NV-1 (with vision lite), those are to receive horizontal blinds.
B. Some doors were removed since they belong to the swing space/field house.

Item No. 58 A-821 – Window and Storefront Elevations

A. W50 Window Frame (08_WN_Interior: 6'-6"W x 4'H) Elevation Added

Item No. 59 A-902F – Area F Finish Floor Plan

A. Expended new floor finish area at the skybridge

Item No. 60 A-931 – Interior Elevations

A. Added the glazing material legend
B. Added control joints and revisions to interior elevations

Item No. 61 A-932 – Interior Elevations

A. Added the glazing material legend
B. Added keynotes

Item No. 62 A-933 – Interior Elevations

A. Added the glazing material legend
B. Added control joints and additional keynotes

Item No. 63 A-934 – Interior Elevations

A. Added the glazing material legend
B. Updated keynotes on interior elevations, and added dimensions
C. Added control joints and additional keynotes

Item No. 64 A-935 – Interior Elevations

A. Added the glazing material legend
B. Updated keynotes

Item No. 65 A-941 – Interior Elevations

A. Added the glazing material legend
B. Added control joints
C. Updated elevation 01 and 02

Item No. 66 A-943 – Interior Elevations

A. Added the glazing material legend
B. Added control joints to elevation 03

Item No. 67 A- 944 – Interior Elevations – Restrooms

A. New sheet added in its entirety with restroom elevations

Item No. 68 A- 945 – Interior Elevations – Restrooms

A. New sheet added in its entirety with restroom elevations

Item No. 69 A- 946 – Interior Elevations – Restrooms

A. New sheet added in its entirety with restroom elevations

Item No. 70 A- 947– Interior Elevations – Restrooms

A. New sheet added in its entirety with restroom elevations

MECHANICAL

Item No. 01. MEPTD – MEPT MECHANICAL YARD DEMO SITE PLAN

A. REMOVE SHEET FROM SET PER QAQC COMMENTS.

Item No. 02. MD-100 – MECHANICAL DEMO SITE PLAN

A. Added Callouts

Item No. 03. MS-100 – MECHANICAL SITE PLAN

A. Added Callouts

Item No. 04. MD-101HT - 1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE

A. Added General Note “ALL WORK ON THIS SHEET TO BE COMPLETED IN THE SUMMER OF 2026 PRIOR TO THE ARRIVAL OF PKG 3C CENTRAL PLANT. COORDINATE EXACT TIMING OF WORK WITH OWNER”
B. Added keynote 5 on existing hydronic piping that will remain and text notes on what they serve.
C. Added keynote 6 regarding modifying existing generator platform

Item No. 05. MD-101H - 1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE

A. Added keynote 4 and 5 regarding louver and exhaust fan installed in summer of 2026
B. Added keynote 6 on existing hydronic piping that will remain and text notes on what they serve.
C. Added Keynote 7 on hydronic piping installed during the summer of 2026 that will remain.
D. Added missing callout reference.

Item No. 06. M-101B - 1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

A. Replaced 2x2 diffuser with linear slot.

Item No. 07. M-101C FLOOR PL - 1ST FLOOR MECHANICAL PLAN -AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated Corridor Linear Slot locations/Configuration
B. Updated diffuser types for Collab Flex Room

Item No. 08. M-101D - 1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated ductwork and cfm for 1135-vestible after increase in size.
B. Updated ductwork to linear diffuser that was previously passing thru stairwell.

Item No. 09. M-101E - 1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated Corridor Linear Slot locations/Configuration
B. Updated diffuser types for Collab Flex Room

Item No. 010. M-101HT - 1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE

A. Added General Note “ALL WORK ON THIS SHEET TO BE COMPLETED IN THE SUMMER OF 2026 PRIOR TO THE ARRIVAL OF PKG 3C CENTRAL PLANT. COORDINATE EXACT TIMING OF WORK WITH OWNER”
B. Updated Keynote 2 for Temporary Piping. Added that temporary piping should not block entrances to the BLDG and welding stations.
C. Updated keynote 7 removing any mention of controls and sequences for inline exhaust fan for CO purge in boiler room. Refer to Controls and Sequences for exact details.
D. Removed pipe supports supporting temporary CHS/R piping shown on the plan.
E. Moved hydronic 14” CHS/R piping entering the building from the boiler room to above the canopy of the adjacent corridor. Moved Valves inside the building too.

F. Updated location of Central Plant PKG 3C.
G. Updated keynote 1 to reference Derryberry and new location of CWS/R hookups.

Item No. 011. M-101H - 1ST FLOOR MECHANICAL PLAN - AREA H - CTE
A. Updated CHS/R connection from Central Plant to stub outs above canopy.
B. Updated keynote 2. Structural to provide hydronic piping support. Refer to structural.
C. Updated location of Central Plant PKG 3C.
D. Keynote 9 added for hydronic piping installed during the summer of 2026 that will remain.

Item No. 012. M-102B – 2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
A. Reconfigured ductwork for RTU-B1.
B. Updated ductwork and piping through skybridge due to structural conflicts.

Item No. 013. M-102C - 2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Updated Corridor Linear Slot locations/Configuration
B. Updated diffuser types for Collab Flex Room

Item No. 014. M-102D - 2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Updated linear diffuser type on Main Street to Jet throw linear diffusers
B. Updated ductwork and piping through skybridge due to structural conflicts.

Item No. 015. M-102E - 2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Updated Corridor Linear Slot locations/Configuration
B. Updated diffuser types for Collab Flex Room

Item No. 016. M-103B - 3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
A. Reconfigured ductwork for RTU-B1 and RTU-B2.

Item No. 017. M-103C - 3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Updated Corridor Linear Slot locations/Configuration
B. Updated diffuser types for Collab Flex Room

Item No. 018. M-103D - 3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Updated neck size for linear slots

Item No. 019. M-103E - 3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Updated Corridor Linear Slot locations/Configuration
B. Updated diffuser types for Collab Flex Room

Item No. 020. M-103F - 3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Routed Condensate and refrigerant lines for FCU-IDF-3131
B. Added missing keynotes for air transfer openings.
C. Changed exhaust grille in 3117-Custodial

Item No. 021. M-103G - 3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Added keynote 1 for ductwork continuation

Item No. 022. M-201 – ENLARGED TEMPORARY MECHANICAL PLAN
A. Relocated CHS/R going into the boiler room to above the entrance to adjacent corridor. See M-101HT for new location. Also removed supports for the piping.

Item No. 023. M-202 – ENLARGED MECHANICAL PLAN
A. Relocated CHS/R going into the boiler room to above the entrance to adjacent corridor. See M-101HT for new location. Also removed supports for the piping.

Item No. 024. M-301 - MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERAL FLOOR PLAN

A. Reconfigured RTU platform per RTU platform recommendations.
B. Updated RTU-B1 and RTU-B2 to be more than 10’ away from roof edge. They are now horizontal discharge with ductwork on the roof.
C. Added condensate piping supports to RTUs.

Item No. 025. M-401 - MECHANICAL PIPING DIAGRAM
A. Removed sensors outside the CTE building, Also removed mentioning of isolation valves from the Central plant manufacturer. These items will already be provided by the central plant manufacturer.
B. Moved new isolation valves from outside to inside the CTE building corridor.
C. Added Notes Legend

Item No. 026. M-402 - MECHANICAL PIPING DIAGRAM
A. Added Notes Legend
B. Corrected two pipe sizes

Item No. 027. M-403 - MECHANICAL PIPING DIAGRAM
A. New sheet with Hot Water Piping Diagram

Item No. 028. M-404 - MECHANICAL PIPING DIAGRAM
A. New sheet with Hot Water Piping Diagram

Item No. 029. M-405 - MECHANICAL PIPING DIAGRAM
A. New sheet with Hot Water Piping Diagram

Item No. 030. M-501 - MECHANICAL SCHEDULES
A. Updated the CFM for a couple of Air Handlers due to architectural changes.

Item No. 031. M-502 - MECHANICAL SCHEDULES
A. Split RTU schedule into two separate schedules, 1 for light commercial RTUs (stairwell units) and the other for the high OA RTUs serving the MP field to prevent confusion.
B. Updated RTU-MP-01 and RTU-MP-02.

Item No. 032. M-503 - MECHANICAL SCHEDULES
A. Updated the cfm for a couple of CVBs due to architectural changes.
B. Updated names of high plume exhaust fans to match plans.

ELECTRICAL

Item No. 01. ES-101 - ELECTRICAL SITE PLAN
A. Added relocated sports light and associated keynote
B. Added keynote clarifying landscape fixture scheduling

Item No. 02. ES-101A - ELECTRICAL SITE PLAN - ENLARGED VIEWS
A. Added keynote clarifying landscape fixture scheduling
B. Added label to service transformer

Item No. 03. E-101A - 1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
A. Updated Scoreboard locations
B. Added for accessory driver
C. Updated circuiting for motorized bleachers
D. Added location of keyed switches for backboards

Item No. 04. E- 102A - 2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
A. Added power for motorized shades

Item No. 05. E- 102B - 2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
A. Updated power for motorized bleachers
B. Added location of keyed switches for backboards

Item No. 06. E- 103G - 3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
A. Added power for motorized netting

B. Updated key notes

Item No. 07. E- 201A - 1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

A. Tagged exterior column fixtures and added circuiting

Item No. 08. E- 201B - 1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

A. Added fixture tag for hallway fixtures

Item No. 09. E- 201F - 1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Added 2x4 fixture

Item No. 010. E- 202B - 2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

A. Extend 4” sanitary waste connections from turf field trench drains out to Civil connection.

Item No. 011. E-202D - 2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated stairway lighting

Item No. 012. E- 202E - 2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated stairway lighting

Item No. 013. E- 203C - 3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated stairway lighting

Item No. 014. E- 203D - 3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated stairway lighting

Item No. 015. E- 203E - 3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated stairway lighting

Item No. 016. E- 203F - 3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated stairway lighting

Item No. 017. E- 301B - ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN

A. Updated stairway lighting

Item No. 018. E- 502 - ELECTRICAL RISER DIAGRAM

A. Revisions to riser diagram

B. Added note to aluminum conductor schedule

Item No. 019. E- 602 - ELECTRICAL DETAILS

A. Added pedestal mount detail

Item No. 020. E- 700 - ELECTRICAL PANEL SCHEDULES

A. Updated Panel Schedule to reflect updates on floorplan

Item No. 021. E- 703 - ELECTRICAL PANEL SCHEDULES

A. Updated Panel Schedule to reflect updates on floorplan

Item No. 022. E- 705 - ELECTRICAL PANEL SCHEDULES

A. Updated Panel Schedule to reflect updates on floorplan

Item No. 023. E- 707 - ELECTRICAL PANEL SCHEDULES

A. Updated Panel Schedule to reflect updates on floorplan

Item No. 024. E- 708 - ELECTRICAL PANEL SCHEDULES

A. Updated Panel Schedule to reflect updates on floorplan

PLUMBING

Item No. 01. PD-101 – PLUMBING DEMO SITE PLAN

A. Upsize existing 4” cold water main service to be 6” in size to serve new and future additions.
B. Shift 4” underground gas line from gas meter to CTE further from central plant footprint.
C. Add general clarifying notes and verbiage to align with new construction plans and design intent.

Item No. 02. PS-101 – PLUMBING SITE PLAN

A. Extend 4” sanitary waste connections from turf field trench drains out to Civil connection.
B. Shift acid dilution tank and associated sampling well about 2’-0” plan west and 5’-0” plan south to accommodate Civil connection and site elements.
C. Upsize existing 4” cold water main service to be 6” in size to serve new and future additions.
D. Shift 4” underground gas line from gas meter to CTE further from central plant footprint.
E. Indicate phasing for specific systems/routing/connections, and to refer to Daryl Martin at Derryberry for coordinating exact timeframe.

Item No. 03. PF-101 – 1ST FLOOR FIRE PROTECTION PLAN

A. Extend piping systems for future phase through existing space to cap and seal for preparation of future phase connection.
B. Extend sprinkler system to temporarily serve the swing spaces as required to sprinkler the area per NFPA 13. System shall be demolished and removed after completion of temporary swing space phase.
C. Indicate provision and coordination of a fire watch program during the intermediary time between re-location of fire pump house and its storage tanks. Contractor shall coordinate with the Fire Marshall as required.

Item No. 04. PF-102 – 2ND FLOOR FIRE PROTECTION PLAN

A. Extend piping systems for future phase through existing space to cap and seal for preparation of future phase connection.

Item No. 05. PU-101A – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA A NEW GYM FLOOR PLAN

A. Extend 3” waste piping to serve added floor sink at added ice maker in CONCESSIONS 1505.

Item No. 06. PU-101B – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA B NEW GYM FLOOR PLAN

A. Extend 3” waste piping to serve added floor sink at added ice maker in TRAINERS 1520.

Item No. 07. PU-101C – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.
B. Shift acid dilution tank and associated sampling well about 2’-0” plan west and 5’-0” plan south to accommodate Civil connection and site elements.

Item No. 08. PU-101D – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.

Item No. 09. PU-101E – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.

Item No. 010. PU-101F – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.

Item No. 011. PU-101G – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.

Item No. 012. P-101A – 1ST FLOOR PLUMBING PLAN – AREA A NEW GYM FLOOR PLAN

A. Revise electric drinking fountain tag to be EDF – 1 to align with the specifications.
B. Extend 2” vent piping and ¾” cold water piping to serve added floor sink 3” FS – 1 and refrigerator valve box RVB – 1 at added ice maker in CONCESSIONS 1505.

Item No. 013. P-101B – 1ST FLOOR PLUMBING PLAN – AREA B NEW GYM FLOOR PLAN

A. Extend 2” vent piping and ¾” cold water piping to serve added floor sink 3” FS – 1 and refrigerator valve box RVB – 1 at added ice maker in TRAINERS 1520.
B. Shift piping and plumbing fixtures at MEN’S RR 2507 and WOMEN’S RR 2508 to align with shifted Architectural locations.

Item No. 014. P-101C – 1ST FLOOR PLUMBING PLAN – AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.
B. Shift acid dilution tank and associated sampling well about 2’-0” plan west and 5’-0” plan south to accommodate Civil connection and site elements.

Item No. 015. P-101D – 1ST FLOOR PLUMBING PLAN – AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Extend sprinkler system to temporarily serve the swing spaces as required to sprinkler the area per NFPA 13. System shall be demolished and removed after completion of temporary swing space phase.

Item No. 016. P-101E – 1ST FLOOR PLUMBING PLAN – AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.

Item No. 017. P-101F – 1ST FLOOR PLUMBING PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.
B. Clarify waste routing from floors above to below grade.
C. Extend piping systems for future phase through existing space to cap and seal for preparation of future phase connection.
D. Indicate the existing 4” cold water line must be demolished, removed, and upsized to a 6” cold water line to accommodate the new and future additions.
E. Extend sprinkler system to temporarily serve the swing spaces as required to sprinkler the area per NFPA 13. System shall be demolished and removed after completion of temporary swing space phase.

Item No. 018. P-101G – 1ST FLOOR PLUMBING PLAN – AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify turf field trench drain design and routing. Refer to added sheet P-604 for additional details.

Item No. 019. P-101GT – 1ST FLOOR PLUMBING PLAN – AREA G – TEMPORARY SWING SPACES

A. Extend sprinkler system to temporarily serve the swing spaces as required to sprinkler the area per NFPA 13. System shall be demolished and removed after completion of temporary swing space phase.

Item No. 020. P-101Ha – 1ST FLOOR PLUMBING PLAN – AREA H CTE

A. Extend piping systems for future phase through existing space to cap and seal for preparation of future phase connection.
B. Indicate the existing 4” cold water line must be demolished, removed, and upsized to a 6” cold water line to accommodate the new and future additions.
C. Shift 4” underground gas line from gas meter to CTE further from central plant footprint.
D. Indicate phasing for specific systems/routing/connections, and to refer to Daryl Martin at Derryberry for coordinating exact timeframe.

E. Indicate provision and coordination of a fire watch program during the intermediary time between re-location of fire pump house and its storage tanks. Contractor shall coordinate with the Fire Marshall as required.

Item No. 021. P-102B – 2ND FLOOR PLUMBING PLAN – AREA B NEW GYM FLOOR PLAN

A. Revise electric drinking fountain tag to be EDF – 1 to align with the specifications.
B. Shift piping and plumbing fixtures at MEN'S RR 2507 and WOMEN'S RR 2508 to align with shifted Architectural locations.

Item No. 022. P-102C – 2ND FLOOR PLUMBING PLAN – AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing plenum waste connections of shifted lab sinks at floor above to align with Architectural changes.

Item No. 023. P-102D – 2ND FLOOR PLUMBING PLAN – AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing plenum waste connections of shifted lab sinks at floor above to align with Architectural changes.

Item No. 024. P-102E – 2ND FLOOR PLUMBING PLAN – AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing plenum waste connections of shifted lab sinks at floor above to align with Architectural changes.

Item No. 025. P-102F – 2ND FLOOR PLUMBING PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing plenum waste connections of shifted lab sinks at floor above to align with Architectural changes.
B. Extend piping systems for future phase through existing space to cap and seal for preparation of future phase connection.

Item No. 026. P-103C – 3RD FLOOR PLUMBING PLAN – AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing connections of shifted lab sinks at science labs to align with Architectural changes.
B. Revise lab sink fixture tags in science labs without acid waste discharge to be LS – A type (in lieu of LS – 1) and LS – B type (in lieu of LS – 2).

Item No. 027. P-103D – 3RD FLOOR PLUMBING PLAN – AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift 3" VTR outside new mech unit location RTU-MP-02. Provide the code required minimum 10' clearance from all mechanical air intake equipment.
B. Shift plumbing connections of shifted lab sinks at science labs to align with Architectural changes.
C. Remove one (1) floor sinks due to removed mech units. Remove associated waste and vent piping accordingly.
D. Revise lab sink fixture tags in science labs without acid waste discharge to be LS – A type (in lieu of LS – 1) and LS – B type (in lieu of LS – 2).

Item No. 028. P-103E – 3RD FLOOR PLUMBING PLAN – AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing connections of shifted lab sinks at science labs to align with Architectural changes.
B. Revise lab sink fixture tags in science labs without acid waste discharge to be LS – A type (in lieu of LS – 1) and LS – B type (in lieu of LS – 2).

Item No. 029. P-103F – 3RD FLOOR PLUMBING PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift plumbing plenum waste connections of shifted lab sinks at floor above to align with Architectural changes.
B. Remove two (2) floor sinks due to removed mech units. Remove associated waste and vent piping accordingly.
C. Revise lab sink fixture tags in science labs without acid waste discharge to be LS – A type (in lieu of LS – 1) and LS – B type (in lieu of LS – 2).

Item No. 030. P-104D – MEZZANINE PLUMBING PLAN – AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify 2-1/2" gas (5 PSI) routing through penthouse space from rooftop to rooftop as per P-301.
B. Remove one (1) floor sinks due to removed mech units. Remove associated waste and vent piping accordingly.

Item No. 031. P-104F – MEZZANINE PLUMBING PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify 2-1/2" gas (5 PSI) routing through penthouse space from rooftop to rooftop as per P-301.
B. Remove two (2) floor sinks due to removed mech units. Remove associated waste and vent piping accordingly.

Item No. 032. P-301 – PLUMBING ROOF PLAN – NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

A. Extend new gas connection to the new mech unit RTU-MP-01. Provide gas regulator with shut-off valves accordingly.
B. Extend new gas connection to the new mech unit RTU-MP-02. Provide gas regulator with shut-off valves accordingly.
C. Shift gas connections serving athletics rooftop units to align with shifted Mechanical locations.
D. Shift 3" VTR outside new mech unit location RTU-MP-02. Provide the code required minimum 10' clearance from all mechanical air intake equipment.
E. Shift two (2) roof drains above Area 'F' to align with shifted Architectural locations.

Item No. 033. P-501 – PLUMBING SCHEDULES

A. Add fume hood FH – 1 to schedule to clarify it is by others.
B. Add stainless steel lab sink LS – A and LS – B to schedule to clarify its provision at science lab rooms without acid waste discharge.
C. Upsize DWP – 1.

Item No. 034. P-601 – PLUMBING DETAILS

A. Clarify instructional verbiage at ROOF GAS PIPE SUPPORT detail #16 to indicate the Contractor shall closely coordinate with the building envelope consultant specifications for roof gas pipe supports and provide accordingly.
B. Clarify the booster pump motor quantity to be four in lieu of three at DOMESTIC WATER BOOSTER PUMP (DWP-1) detail #22.

Item No. 035. P-602 – PLUMBING DETAILS

A. Clarify the manifold out of the gas meter (customer-side) shall be 6" in size to accommodate the total system load, update TYPICAL LARGE SERVE GAS METER detail #25. Clarify the total CFH serving the multi-purpose facility to be 2,050 CFH. Clarify total system CFH is 34,767 CFH.
B. Clarify FIRE SPRINKLER RISER DIAGRAM detail #1 to show future risers serving future zones.

Item No. 036. P-604 – PLUMBING DETAILS

A. Add new sheet in its entirety clarifying trench drain installation and layout.

Item No. 037. P-701 – PLUMBING RISER DIAGRAMS

A. Add new sheet in its entirety clarifying natural gas routing with riser diagram portrayal.

B. Include gas load analysis for gas load breakdown of new, existing, and demolished CFH values.

Item No. 038. P-702 – PLUMBING RISER DIAGRAMS

A. Add new sheet in its entirety clarifying natural gas routing with riser diagram portrayal.

Item No. 039. P-703 – PLUMBING RISER DIAGRAMS

A. Add new sheet in its entirety clarifying natural gas routing with riser diagram portrayal.

TECHNOLOGY

Item No. 01 TF101A – 1ST FLOOR FIRE ALARM PLAN – AREA A – GYM FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Removed all Beam detectors in favor of high-ceiling smoke detectors indicated on Sheet TF-102A.
C. Added Photoelectric smoke detector in CONCESSION STORAGE 1505.1, and moved the existing one that was between walls into TICKET BOOTH STORAGE 1504.1.
D. Added smoke detector to low ceiling corridors on home and visitor side
E. Shifted 'FAA' and placed pull station beside in visitor side corridor

Item No. 02 TF101B – 1ST FLOOR FIRE ALARM PLAN – AREA B – GYM FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Added remote annunciator to south CORRIDOR C1508 in front of CUSTODIAL 1527.
C. Moved Pull station from nearby door to side of annunciator panel.
D. Removed pull stations from all corridor doors and Stair entrance doors.
E. Removed pull station from MAIN WEIGHT ROOM 1515.
F. Removed pull station from CART STORAGE 1520.1.
G. Added 'FAA' annunciator.

Item No. 03 TF101D – 1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Added remote annunciator to south CORRIDOR C1000 by plan east doorway.

Item No. 04 TF101E – 1ST FLOOR FIRE ALARM PLAN - AREA E- MP FACILITY FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Added remote annunciator to CORRIDOR C1100.1 and added smoke detector nearby.

Item No. 05 TF101F – 1ST FLOOR FIRE ALARM PLAN - AREA F- MP FACILITY FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Removed pull station from STAIR 07.
C. Shifted location of Relays for corridor.

Item No. 06 TF102A – 2ND FLOOR FIRE ALARM PLAN – AREA A – GYM FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Added Smoke detectors to GYM LOBBY 1500 in lieu of beam detectors.

Item No. 07 TF102B – 2ND FLOOR FIRE ALARM PLAN – AREA B – GYM FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Shifted Wall-mounted speaker-strobe in AUXILIARY GYM B 2513 plan north wall to accommodate location of scoreboard.
C. Shifted Wall-mounted speaker-strobe in AUXILIARY GYM A 2510 plan south wall to accommodate location of scoreboard.
D. Added 'FAA' Annunciator to CORRIDOR C2501 north near STAIR 01 2502.
E. Added Pull station beside Annunciator.

Item No. 08 TF-102D – 2ND FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Shifted under-balcony smoke detector to accommodate location of added 'FAA' annunciator panel on 1st floor.
C. Added 'FAA' to south CORRIDOR C2100.2 outside of SRO 2138.
D. Added pull station by 'FAA'
E. Added Smoke detector nearby.

Item No. 09 TF103 – 3RD FLOOR FIRE ALARM PLAN - GYM & MP MEZZANINE FLOOR PLANS

A. **Replace Sheet in its entirety**

B. Removed Beam detectors from both AUXILIARY GYMS A & B.
C. Added smoke detector coverage to spaces in lieu of beam detectors.

Item No. 10 TF-103F – 3RD FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added 'FAA' to CORRIDOR C3700 outside of STORAGE 3121.
C. Added pull station by 'FAA'

Item No. 11 TN101 – 1ST FLOOR TECHNOLOGY PLAN – GYM & MP OVERALL FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added and clarified match lines to include MDF 1807 device cabling.

Item No. 12 TN101A – 1ST FLOOR TECHNOLOGY PLAN – AREA A – GYM FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Adjusted location of 'SB2' on plan north wall in COMPETITION GYM 1507.
C. Adjusted location of 'SB2' on plan south wall in COMPETITION GYM 1507.
D. Adjusted location of 'MI' on plan south wall of COMPETITION GYM 1507 to accommodate scoreboard move.
E. Added "TN-101A AND TN-102-B AREA-SPECIFIC GENERAL NOTES" for scope clarification of scoreboard and playclock conduit requirements for future-contract NEVCO turnkey system.

Item No. 13 TN101B – 1ST FLOOR TECHNOLOGY PLAN – AREA B – GYM FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Adjusted location of 'DC' in CART STORAGE 1520.1 in order to accommodate the recessed garage style door opening.
C. Moved Wireless Access Point 'AP' location from STAIR 02 to CORRIDOR C1508.
D. Added 2 additional Wireless Access Points 'AP' into plan south CORRIDOR C1508.

Item No. 14 TN101C – 1ST FLOOR TECHNOLOGY PLAN – AREA C MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Moved location of camera in COLLAB. FLEX ROOM 1150.
C. Removed single-face Clock from CORRIDOR C 1100.2.
D. Added Glassbreak detector 'GB' to ENGLISH #9 1159.
E. Added Card Reader 'CR' to MP SPACE 1100 plan east 4-door entry.

Item No. 15 TN-101D – 1ST FLOOR TECHNOLOGY PLAN – AREA D – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Adjusted D2's in TEMPORARY TECHNICAL CLASSROOM 1136 to D3s in order to accommodate the seating shown.
C. Moved the location of 'TSC' FROM VESTIBULE 1135 INTO MP SPACE 1100.
D. Removed single-face Clock from CORRIDOR C 1100.2.

Item No. 16 TN-101F – 1ST FLOOR TECHNOLOGY PLAN – AREA F – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Removed single-face clock in front of STAIR 07.

Item No. 17 TN-101G – 1ST FLOOR TECHNOLOGY PLAN – AREA G – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Removed 'PS' Device from plan east wall, and replaced with 'D2'.

Item No. 18 TN-102B – 2ND FLOOR TECHNOLOGY PLAN – AREA B – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Swapped location of 'SB2' to plan north wall in AUXILIARY GYM B 2513.
C. Swapped location of 'SB1' to plan south wall in AUXILIARY GYM B 2513.
D. Added "TN-101A AND TN-102-B AREA-SPECIFIC GENERAL NOTES" for scope clarification of scoreboard and playclock conduit requirements for future-contract NEVCO turnkey system.

Item No. 19 TN-102C – 2ND FLOOR TECHNOLOGY PLAN – AREA C – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added TYPE 3 corner mounted 4-sensor camera to BALCONY 2147.1 mounted 8' 6" AFF.

Item No. 20 TN-102E – 2ND FLOOR TECHNOLOGY PLAN – AREA E – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added TYPE 3 corner mounted 4-sensor camera to BALCONY 2113.1 mounted 8' 6" AFF.

Item No. 21 TN-103C – 3RD FLOOR TECHNOLOGY PLAN – AREA C – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Moved 'PX' Phone out of cabinet space in CHEMISTRY LAB 3147.
C. Added 'LCD' into COLLAB. FLEX ROOM 3700A plan north wall.

Item No. 22 TN-103D – 3RD FLOOR TECHNOLOGY PLAN – AREA D – MP FACILITY FLOOR PLAN

A. **Replace Sheet in its entirety**
B. Fixed Clock positioning on chase in CHEMISTRY LAB 3140 east wall.
C. Swapped single-face clock to double-face clock in front of STAIR 06 3136 in CORRIDOR C3700.2.

Item No. 23 TN-103E – 3RD FLOOR TECHNOLOGY PLAN – AREA E – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added 'LCD' into COLLAB. FLEX ROOM 3700B plan north wall.

Item No. 24 TN-103F – 3RD FLOOR TECHNOLOGY PLAN – AREA F – MP FACILITY FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added (2) 'D2's Above Countertop on plan north wall of BIO LAB 3119.

Item No. 25 TN-104 – ROOFTOP MEZZANINE TECHNOLOGY PLAN – MP MEZZANINE FLOOR PLAN
A. **Replace Sheet in its entirety**
B. Added 4 Wall-Mounted Intercom Speakers 'S' to plan north wall of mezzanine

Item No. 26 T-402 – TECHNOLOGY SECTIONS - 1ST & 2ND FLOOR GYM IDF CLOSETS
A. **Replace Sheet in its entirety**
B. Adjusted view box for Detail 1 "1ST FLOOR TECHNOLOGY PLAN – IDF 1545 ENLARGED"

END OF ADDENDUM NO. 03



12/19/2025

REQUEST FOR SUBSTITUTION

Contract Award Date: _____

To: PBK Architects

Substitution Requested By: Architectural Systems Group

Project Name and Number: 240539 Athletics, Academic + Multi-Purpose facility

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
_____	07421323	2.1	Alcoa

Proposed Substitution: etalbond® 4mm FR composite Matenals

Request is made during X bidding ____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Superior Warranty / competitive Pricing

Cost saving realized by Owner $4.65/sqft for stock colors

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes X No ____ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

_____

_____

Warranty: Is the warranty for the requested substitution the same or different? Yes X No ____

Explain Differences: See attached

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Jeff Wade — Vice President

Signature of Contractor — Title

AIS — 682-229-7516 — 12-18-2025

Firm — Telephone — Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

X Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: Jan Lepicovsky

Date: 12/19/2025

Remarks: Comply with custom anodized color per spec

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

REQUEST FOR SUBSTITUTION

Contract Award Date: January 12 2026

To: PBK Architects

Substitution Requested By: Jodi Stevens

Project Name and Number: Galena Park ISD HS Phase 3B (Athletics, Academic, Multi-Purpose Facility)

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
A101-B	10 22 39	2.1	Modernfold Acousti-Seal- Electric Partition (933E)

Proposed Substitution: Kwik-Wall 2050E

Request is made during X bidding _____ construction

period. Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: To be specified as comparable product

Cost saving realized by Owner N/A

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes _____ No X On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Warranty: Is the warranty for the requested substitution the same or different? Yes X No _____

Explain Differences: Please see attached warranty form. Will meet requested warranty.

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Jodi Stevens		Architectural Representative
Signature of Contractor		Title
Griesenbeck Architectural Products	832 239 5174	12/18/2025
Firm	Telephone	Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

___ Accepted ___ Accepted as Noted
_X_ Not Accepted ___ Received Too Late

By: Jan Lepicovsky

Date: 12/19/2025

Remarks: Moderco was approved for earlier phase and we want to provide a consistent product

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

SECTION 11 66 23 - GYMNASIUM EQUIPMENT

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Basketball backboards, goals, and support framing.
2. Floor anchors for tensioned elements.
3. Floor sleeves for net and goal posts.
4. Wall mounted protection pads.
5. Indoor netting enclosures.
6. Volleyball nets and posts.

B. Related Requirements:
1. Section 03 30 00 - Cast-in-Place Concrete: Concrete floor slab to receive floor sleeves and anchors.
2. Section 05 12 00 - Structural Steel Framing: Structural members supporting basketball systems.
3. Section 05 50 00 - Metal Fabrications: Secondary structural members supporting gymnasium equipment.
4. Section 09 64 66 - Wood Gymnasium Flooring: Gymnasium flooring.
5. Section 09 65 66 - Resilient Athletic Flooring: Gymnasium flooring.
6. Division 26 - Electrical.

1.3 PRICE AND PAYMENT PROCEDURES

A. Refer to Section 01 21 00 - Allowances for cash allowances affecting this section.

1.4 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

B. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021, with Errata (2023).

C. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023).

D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

E. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

F. NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth; 2024.

1.5 ADMINISTRATIVE REQUIREMENTS

A. Large Components: Ensure that large components can be moved into final position without damage to other construction.

B. Electrically Operated Equipment: Coordinate location and electrical characteristics of service connection.

1.6 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Provide manufacturer's data showing configuration, sizes, materials, finishes, hardware, and accessories; include:

1. Electrical characteristics and connection locations.
2. Fire rating certifications.
3. Manufacturer's installation instructions.

C. Shop Drawings: For custom fabricated equipment indicate, in large scale detail, construction methods; method of attachment or installation; type and gauge of metal, hardware, and fittings; plan front elevation; elevations and dimensions; minimum one cross section; utility requirements as to types, sizes, and locations.

D. Erection Drawings: Detailed dimensional requirements for proper location of equipment.

E. Samples: Submit samples of wall pad coverings in manufacturer's available range of colors.

F. Operating and maintenance data for each operating equipment item.

G. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work.

H. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and approved by manufacturer.

C. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and no more than 12 months before start of scheduled welding work.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to project site in manufacturer's original packaging with factory original labels attached.

B. Store products indoors and elevated above floor; prevent warping, twisting, or sagging.

C. Store products in accordance with manufacturer's instructions; protect from extremes of weather, temperature, moisture, and other damage.

1.9 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures for additional warranty requirements.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
   1. Gymnasium Equipment:
      a. ADP Lemco, Inc: www.adplemco.com/#sle.
      b. Draper, Inc: www.draperinc.com/#sle.
      c. Grand Slam Safety, LLC: www.grandslamsafety.com/#sle.
      d. IPI by Bison, Inc: www.ipibybison.com/#sle.
      e. Performance Sports Systems: www.perfsports.com/#sle.
      f. Porter Athletic Equipment Company: www.gillporter.com/#sle.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

2.2 GENERAL REQUIREMENTS

A. See drawings for sizes and locations, unless noted otherwise.

B. Where mounting dimensions or sizes are not indicated, comply with applicable requirements of the following:
   1. National Federation of State High School Associations (NFHS) sports rules.

C. Provide mounting plates, brackets, and anchors of sufficient size and strength to securely attach equipment to building structure; comply with requirements of Contract Documents.

D. Hardware: Heavy duty steel hardware, as recommended by manufacturer.

E. Electrical Wiring and Components: Comply with NFPA 70; provide UL-listed equipment.

F. Structural Steel Fabrications: Welded in accordance with AWS D1.1/D1.1M, using certified welders.

2.3 INDOOR CONTAINMENT

A. Indoor Netting Enclosure: Semi-permanent divider curtain panelized system anchored at top and bottom to allow for impact by athletes.
   1. Impact Curtain: Vinyl coated polyester fabric mesh weighing 9 ounces per square yard (0.305 kg/sq m), minimum, with reinforced seams.
      a. Color: As selected by architect from manufacturers standard line of colors.
   2. Impact Curtain Panel Height: As indicated on drawings.
      a. Provide additional sports netting for height as indicated on drawings above top of impact curtain.
   3. Panel Length: 20 feet (6.1 m), maximum.
   4. Panel Supports: Top and bottom horizontal cable enclosed within HDPE pipe.
   5. Anchors: Coordinate horizontal and vertical anchor points with manufacturer as required for layout of system.
   6. Access Points: Provide 42 inch (1.07 m) wide by 80 inch (2.03 m) high openings with low profile weighted threshold, and covered on active side with mesh secured to top of opening.
   7. Manufacturers:
      a. Grand Slam Safety, LLC: www.grandslamsafety.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.4 BASKETBALL

A. Basketball System: Backstop assembly, backboard, and goal.
   1. Manufacturers:
      a. ADP Lemco, Inc: www.adplemco.com/#sle.
      b. Draper, Inc: www.draperinc.com/#sle.
      c. IPI by Bison, Inc: www.ipibybison.com/#sle.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

B. Wall-Mounted Backstop Assemblies: Wall-mounted steel frame assembly capable of mounting both rectangular and fan-shaped backboards.
   1. Framing: Stationary framing.
   2. Folding Control System: Electric hoist with 115 volt actuator, integral limit switches that provide automatic shut-off in both positions, and safety catch with automatic reset.
   3. Folding Control System: Manual winch with safety catch and automatic reset.
   4. Height Adjuster: Raises or lowers assembly by 2 feet (610 mm) to adjust goal height.
      a. Height Control System: Electric hoist that adjusts backstop with 115 volt actuator, and integral limit switches that provide automatic shut-off in both positions.
      b. Height Control System: Manual winch.
   5. Framing Color: Manufacturer's standard.
   6. Manufacturers:
      a. IPI by Bison, Inc; IP10WB Stationary Basketball Goals: www.ipibybison.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

C. Ceiling-Suspended Backstop Assemblies: Capable of mounting both rectangular and fan-shaped backboards.
   1. Framing: Center strut; forward folding and stationary framing.
   2. Folding Control System: Electric hoist that folds backstop with 115 volt actuator, integral limit switches that provide automatic shut-off in both positions, and safety catch with automatic reset.
   3. Folding Control System: Manual winch with safety catch and automatic reset.
   4. Height Adjuster: Raises or lowers assembly by 2 feet (610 mm) to adjust goal height.
      a. Height Control System: Electric hoist that adjusts backstop with 115 volt actuator, and integral limit switches that provide automatic shut-off in both positions.
      b. Height Control System: Manual winch.
   5. Framing Color: Manufacturer's standard.
   6. Manufacturers:
      a. Draper, Inc; EZ Fold Ceiling Suspended Forward-Folding: www.draperinc.com/#sle.
      b. Draper, Inc; EZ Fold Ceiling Suspended Rear-Folding: www.draperinc.com/#sle.
      c. IPI by Bison, Inc; IP1360FF Forward Fold, Front Braced: www.ipibybison.com/#sle.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

D. Backboards: Tempered glass, rectangular shaped.
   1. Frame: Brushed aluminum edge, steel mounting.
   2. Provide conversion frame, mountable on both assemblies designed for fan shaped backboards and assemblies designed for rectangular backboards.
   3. Markings: Painted.
   4. Provide safety padding for bottom edge of backboard.
   5. Provide mounting kit.
   6. Color: Manufacturer's standard.

E. Goals: Steel rim, mounted to backboard, with attached nylon net; complete with mounting hardware.
   1. Net Attachment Device: Tube-tie.
   2. Breakaway mechanism, adjustable.
   3. Provide safety pad for goal mounting.
   4. Finish: Powder coat orange.

2.5 FLOOR-MOUNTED EQUIPMENT

A. Volley Ball Nets and Posts: One court system of adjustable posts, net, and tensioning winch meeting requirements for FIVB, USA Volleyball, NCAA and NFHS competition requirements.
   1. Posts: 3-1/2 inch (89 mm) O.D. schedule 80 aluminum tube with 1 inch (25 mm) height adjustments between 42 and 96 inches (1.07 and 2.4 m).
   2. Net: 4 inch (101 mm) square #36 nylon cord with vinyl coated polyester hem, double stitched around the perimeter.
      a. Top Hem Reinforcing: 2000 pound (907 kg) minimum break strength galvanized aircraft cable in nylon coating.
      b. Bottom Hem Reinforcing: 1/4 inch (6.3 mm) diameter braided nylon rope with spring loaded, pressure type rope tensioner.
      c. Size: Regulation size.
   3. Tensioning Winch: Manual crank heavy duty, self-locking worm gear mechanism.
   4. Antenna and boundary marker.
   5. Protective Pads: Polyethylene foam covered with polyester reinforced vinyl fabric.
      a. Size: Refer to Drawings.
      b. Color: Architect to select from Manufacturer's full range.
   6. Manufacturers:
      a. Draper, Inc; Power Volleyball System (PVS): www.draperinc.com/#sle.
      b. IPI by Bison, Inc; VB1000NS Centerline Aluminum: www.ipibybison.com/#sle.

c. Substitutions: See Section 01 60 00 - Product Requirements.

B. Floor Anchors for Portable Gymnasium Equipment: Steel plate bolted into wood flooring, with center screw-down button for securing tensioned elements; installed flush with finish floor surface.
1. Specific equipment items to be anchored have not yet been determined; anchors in gymnasium floor are required.
2. Anchors will be furnished by Owner and installed by Contractor.
3. Screw Size: 1/2 inch (12.7 mm) diameter, with 13 threads per inch.
4. Manufacturers:
a. ADP Lemco, Inc: www.adplemco.com/#sle.
b. Substitutions: See Section 01 60 00 - Product Requirements.

C. Floor Sleeves for Posts: Metal sleeve, with latch cover, cast into concrete subfloor to hold poles for nets and goals; installed flush with finish floor surface.
1. Latch Cover: Brass, round; tamper resistant lock with key.
2. Sleeve: Aluminum.
3. Depth of Sleeve: 9 inches (230 mm) from floor surface to bottom, including latch cover.
4. Elevated Floor Slabs: Provide sleeve retainer to be bolted to the underside of the floor slab.

2.6 WALL PADDING

A. Wall Padding: Foam filling bonded to backing board, wrapped in covering; each panel fabricated in one piece.
1. Surface Burning Characteristics: Flame spread index (FSI) of 25 or less, smoke developed index (SDI) of 450 or less, Class A, when tested in accordance with ASTM E84 as a complete panel.
2. Flammability: Comply with NFPA 286.
3. Covering: Vinyl-coated polyester fabric, mildew and rot resistant; stapled to back of board.
a. Color: As selected from manufacturer's standard range.
b. Texture: Embossed leather-look.
c. Custom Graphics: To be supplied by Owner.
d. Fabric Weight: 14 oz/sq yd (0.52 kg/sq m), minimum.
4. Foam, Fire-Rated: Open cell polychloroprene (Neoprene), with 5.5 pcf (90 kg/cu m) nominal density.
5. Foam Thickness: 1-1/2 inches (38 mm).
6. Backing Board: Plywood.
a. Thickness: 3/8 inch (9.5 mm), minimum.
7. Panel Dimensions: Refer to Drawings, including nailing/fastening margins.
8. Fastening Margins: 1 inch (25 mm) wide, covered by fabric covering.
9. Mounting: Permanent; using screws.
10. Mounting: Removable; Z-clips fixed to wall and to padding.
11. Manufacturers:
a. ADP Lemco, Inc: www.adplemco.com/#sle.
b. Grand Slam Safety, LLC; Wall Padding: www.grandslamsafety.com/#sle.
c. Draper, Inc; EcoVision Wall Pad: www.draperinc.com/#sle.
d. IPI by Bison, Inc; Indoor Solid Color Vinyl Padding: www.ipibybison.com/#sle.
e. Substitutions: See Section 01 60 00 - Product Requirements.

B. Specially Shaped Padding: Same construction as standard padding; custom fabricate to fit irregularly shaped members, areas, and protrusions in gymnasium as indicated; provide padding for:
1. I-beams.
2. Wall corners.

3. Stage corners.

C. Round Column Padding: Same construction as standard padding; made to fit; with grommet strip on each long side of pad, provide laces.

PART 3 EXECUTION

3.1 EXAMINATION

A. Take field measurements to ensure proper fitting of work. If taking field measurements before fabrication will delay work, allow for adjustments within recommended tolerances.

B. Inspect areas and conditions before installation, and notify Architect in writing of unsatisfactory or detrimental conditions.

C. Do not proceed with this work until conditions have been corrected; commencing installation constitutes acceptance of work site conditions.

D. Verify that electrical services are correctly located and have proper characteristics.

3.2 INSTALLATION

A. Install in accordance with Contract Documents and manufacturer's instructions.

B. Coordinate installation of inserts and anchors that must be built in to flooring or subflooring.

C. Install equipment rigid, straight, plumb, and level.

D. Secure equipment with manufacturer's recommended anchoring devices.

E. Install wall padding securely, with edges tight to wall and without wrinkles in fabric covering.

F. Separate dissimilar metals to prevent electrolytic corrosion.

3.3 ADJUSTING

A. Verify proper placement of equipment.

B. Verify proper placement of equipment anchors and sleeves, and use actual movable equipment to be anchored if available.

C. Adjust operating equipment for proper operation; remove and replace equipment causing noise or vibration; lubricate equipment as recommended by manufacturer.

3.4 CLEANING

A. Remove masking or protective covering from finished surfaces.

B. Clean equipment in accordance with manufacturer's recommendations.

3.5 PROTECTION

A. Protect installed products until Date of Substantial Completion.

B. Replace damaged products before Date of Substantial Completion.

END OF SECTION 11 66 23

SECTION 22 11 23 - DOMESTIC WATER PRESSURE BOOSTER SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

C. SECTION 22 05 00 – COMMON WORK RESULT FOR PLUMBING

D. SECTION 22 05 16 – EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING

E. SECTION 22 05 29 – PLUMBING PIPE HANGERS AND SUPPORTS

F. SECTION 22 05 48.13 – VIBRATION CONTROLS FOR PLUMBING PIPING AND EQUIPMENT

1.2 SUMMARY

A. General Conditions: Refer to the General Conditions, the Supplementary General Conditions and the Special Conditions, all provisions of which apply to work under this section as if written in full herein.

B. The scope of work described in these Specifications and/or indicated on the Drawings shall include (except where otherwise noted) the furnishing of all materials, equipment, appurtenances, accessories, connections, labor, etc. required and/or necessary to completely install, clean, inspect, adjust, test, balance and leave in safe and proper operating condition all mechanical systems. All work shall be accomplished by workmen skilled in the various trades involved.

C. The Drawings and Specifications are complementary to each other and what is called for by one shall be as binding as if called for by both. If a discrepancy exists between the Drawing and Specifications, the higher cost shall be included, and the Engineer shall be notified of the discrepancy.

1.3 STANDARDS

A. The domestic water pressure booster system shall conform to all ordinances and regulations of the City, County, State and/or other authorities having jurisdiction in accordance with the requirements of the following codes, standards and design guides:

1. The Uniform Plumbing Code, 2021 Edition, with most current State of Texas Amendments
2. The International Building Code, 2021 Edition, with most current State of Texas Amendments
3. UL Listing - All motors, controllers and electrical components shall carry a UL Approval for the assembly.
4. NEMA Compliance - All controllers shall be designed in accordance with the

specified NEMA requirements.

5. ANSI/NSF 61 compliance is required for all components of the domestic water system.

1.4 PERMITS

A. The Contractor shall obtain all permits and inspections required for the installation of this work and pay all charges incident thereto. He shall deliver to the Architect all certificates of said inspection.

1.5 EQUIPMENT, MATERIAL BID BASIS

A. Manufacturers' names, model numbers, etc. as specified on the Drawings and herein are for the purpose of describing type, capacity, function and quality of equipment and materials required.

B. Unless "approved equal" is specifically stated, bids shall be based on equipment named in the Specifications or on the Drawings as "base" products. Proposed alternate equipment and materials may be submitted along with the "base" products, provided deductive pricing is included with the alternate.

C. Alternate "approved equal" items listed shall conform to specified base items and shall be substantially equal in quality, size, weight, construction and capacities. The alternate equipment and materials shall be submitted as full equivalent to the equipment and materials specified, with sufficient supportive documentation and technical literature to demonstrate quality, performance, and workmanship without doubt or question. The Engineer shall consider the use of the alternate equipment based on the supportive documentation and other information available to him, and shall approve or disapprove any alternates. The decision of the Engineer shall in all cases be final.

D. The Contractor shall coordinate the installation of all equipment proposed for use in this project with all building trades (architectural, structural, and electrical). Coordination shall be accomplished prior to, and shall be reflected in, the submittal of shop drawings for approval. Any modifications or revisions required by other trades as a result of the use of equipment other than the basis of design shall be made at no additional cost. When substitution of equipment is made, the Contractor shall be responsible for the costs of any item and engineering and construction revisions necessary in his or any other contract or trade that may be required to satisfy plans and specifications.

1.6 SUBMITTALS

A. Shop drawings shall clearly indicate selection of model numbers, sizes, dimensions, electrical characteristics, etc. of the proposed equipment. Any deviations from specified equipment shall be clearly indicated on the submittal.

B. Included with shop drawings of mechanical equipment requiring electrical connections shall be a written statement confirming coordination of voltage requirements, bearing the names and signatures of the mechanical and electrical contractors. A photocopied reproduction of the below statement is acceptable.

C. Submittal shall include pump curves with selection point clearly identified and wiring diagrams for all electrical components.

D. See additional requirements in section 22 05 00.

1.7 WARRANTY

A. All equipment furnished and installed under this Contract shall be provided with the manufacturer's standard warranty unless otherwise noted.

B. The Contractor shall make good all defects in material, equipment, or workmanship disclosed within a period of three (3) year from date of building acceptance by the Owner. The phrase "make good" shall mean to furnish promptly, without charge, all work necessary to remedy the defects to the satisfaction of the Engineer.

1.8 QUALITY ASSURANCE

A. The Domestic water Booster system manufacturer shall have an extensive background and experience in the design and fabrication of Domestic Booster systems.

B. The manufacturer shall have fabricated Domestic water Booster systems for a minimum of ten (10) years.

C. The manufacturer shall provide single source responsibility for complete package. The entire package shall be third party certified by:

1. Underwriters Laboratories Inc.
2. The International Association of Plumbing and Mechanical Officials
3. NSF 372 for compliance to Low Lead Content law

D. Installer's Qualifications: The system shall be installed by a firm having minimum three years experience regularly engaged in the installation of variable speed domestic booster pump systems.

E. Certification shall obtained by the manufacturer indicating that the function and performance characteristics of all products and materials have been determined by testing and ongoing surveillance by an approved third-party certification agency. Assertion of certification shall be in the form of identification in accordance with the requirements of the third-party certification agency

1.9 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, protect and handle products to the Project Site under provisions of Division 01 and Division 20.

B. Protect internals from entry of foreign material by temporary caps on flanged openings.

C. Store pumps in a dry location. Retain shipping flange, protective covers and protective coatings during storage. Protect bearings and couplings against damage from sand, grit and other foreign matter. Comply with manufacturers' rigging instructions for handling.

PART 2 - PRODUCTS

2.1 GENERAL

A. Pressure ratings of pumps, pipe, fittings, valves, gauges and all other water carrying appurtenances shall be suitable for the anticipated system pressures in which they are installed.

B. The Contractor shall ascertain for himself the space and access available for the installation of a factory assembled packaged unit and as an option may assemble the various components in place at the Site in lieu of providing a factory assembled unit. However, all components of the system shall be compatible and be furnished by a single source manufacturer and all electrical services and interconnecting equipment wiring must be provided for within this Contractors bid.

C. The booster system shall be factory assembled on a steel skid including pumps, motors, valves, Type "L" copper or Schedule 40 300 series stainless steel suction and discharge manifolds, all interconnecting piping, wiring, variable frequency drives with logic and power controls.

D. Over pressurization of the system while operating across-the-line shall be prevented by a pilot operated diaphragm type combination pressure regulating and non-slam check valve on each pump. Main valve and cover shall be ductile iron with a fused epoxy coating and stainless steel stem and cover bolts. Construction shall be suitable for the maximum working pressure of the system.

E. All pilot lights and visual indicators shall be illuminated from the rear by long life LED lamps. Neon and incandescent lamps are not acceptable.

F. Provide isolation valves on the suction and discharge of each pump. The isolation valves shall be 600 WOG full-port ball valves (2" and smaller) and lug style butterfly valves (2½ " and larger).

G. Provide two 4 1/2" ASME grade A, panel mounted gauges for indicating system suction and system discharge pressure.

H. All skid-mounted components shall be factory finished in high quality epoxy or enamel paint. The base shall be suitable for grouting.

I. The packaged pumping system shall include all electrical wiring between components and shall be completed and tested at the factory prior to shipment.

J. Unions or flanges shall be provided for easy removal of pumps. Pipe headers shall be sized for a velocity not exceeding 7-1/2 FPS and shall be terminated with a groove joint capable of accepting a groove coupling or groove flange furnished by Contractor.

K. System shall be arranged such that single point connections are required for piping and electrical power supply.

L. Individual pumps, motors and pressure regulating or check valves shall be serviceable with the booster system in operation.

M. All similar components shall be of one manufacturer, (i.e., valves, gauges, etc.).

N. Refer to schedules on Contract Drawings for required pump capacities and electrical characteristics.

2.2 ▲ADD#3 DOMESTIC WATER PRESSURE BOOSTER SYSTEM

A. Furnish and install a factory fabricated vertical or horizontal mounted quadruplex pressure booster system. The system shall be capable of the capacity and flow rate as indicated on the Drawings.

B. Pumps and Motor

1. Pumps shall be variable speed horizontal or vertical multi-stage equipped with stainless steel shaft and impeller and sleeve mounted mechanical shaft seal.
2. Each close-coupled pump motor shall be TEFC and of the energy efficient type and shall meet NEMA standards and operate within the available service factor at any point on the pump capacity head curve.
3. Motors shall be high efficiency and balanced to a maximum vibration amplitude of .001". Motors shall have ball bearings and operate at 40° ambient. Each motor shall be equipped with the manufacturer's nameplate and shall have a sufficient horsepower rating to operate the pump at any point on the pump's head-capacity curve without overloading the nameplate horsepower rating of the motor, regardless of service factor. The motor shall have a service factor of 1.15 for variations in voltage and frequency.
4. Each pump shall be provided with an individual temperature probe and purge valve having adjustable high temperature set point and differential to sense heat buildup in the pump casing. On sensing high temperature the probe circuit shall open a solenoid valve that allows the heated water to flow out.
5. All pumps shall be provided with VFD drives.
6. All operation controls for pump is under BAS Division 23.

C. Variable Frequency Drives

1. Provide and mount on the system skid variable frequency drives of the PWM design suitable for variable torque applications using any standard NEMA Design B squirrel cage induction motor. Variable frequency drives shall sized for the maximum possible amp draw throughout the programmed sequence of pump operation.

2. The efficiency at full load and full speed shall be 97% with a fundamental power factor of .98.

3. Drives shall be pulse width modulated, start into a rotating load, follow signal from logic section of control panel when in auto mode and be provided with the following features:

   a. Hand/off/auto switch and manual speed adjustment.
   b. Auto Drive Shutdown for electrical fault.
   c. Automatic restart after power fails shutdown.
   d. Provide complete service diagnostics with fault history log.

4. Keypad Operator Device including the following:

   a. 2 Line Backlit LCD Display.

b. Power On and Alarm/Fault Displays.

5. Operational data displays include:

a. Drive Speed (HZ)
b. Motor Power
c. Energy (kWh)
d. Current
e. Elapsed Time
f. RPM
g. Motor Voltage

D. Pump Sequencing

1. The pump designated as the lead pump shall start following a 5 second On-Delay time after sensing a drop in the system pressure 5 PSI below the desired set point value
2. The pump controller shall compare a signal from the discharge pressure transducer to the set point value and the lead pump speed shall ramp up in order to satisfy the set point pressure.
3. The lag pump shall start following a 60 second On-Delay time, when the lead pump exceeds its best operating point (BOP), and a minimum run timer shall ensure that the lag pump runs for a minimum of 60 seconds.
4. The lag pump shall ramp down in speed and turn off when the pumps that are running are operating at a point below the BOP and the lag pump minimum run timer has expired.
5. The lead pump shall continue to operate and meet system requirements based on the set point value.
6. The lead pump shall alternate every 24 hrs of operation where the second pump shall start and run for a period of 5 seconds, both pumps shall operate, the first pump on shall ramp down and the new lead pump shall continue to operate as above to meet system requirements

E. Lead pump shutdown controls

1. All systems are equipped with a 'No-Flow' shutdown that will stop the pumps when the pump controller determines there has been a 'No-Flow' condition for a continuous 5 minute period.
2. The lead pump will start again once a drop in pressure of at least 5 psi is measured on the discharge of the system.
3. The system can be manually operated by means of the virtual Hand-off-Auto (HOA) selector buttons provided on the operator interface

F. Factory Fabrication

1. The system shall be factory fabricated complete with isolation valves on the suction and discharge of each pump. Suction and discharge manifolds are to be Type L copper or schedule 40 stainless steel. The pump assembly shall be provided with anti-vibration pads as specified below. The only field connections required will be to system headers, tank (if required), over temperature drain tube, and one incoming power connection at the control panel.
2. Provide stainless steel double sphere floating flange flexible vibration isolator complete with stainless steel control rod assemblies on the suction and discharge

headers; Kinetics Kinflex FTC series or Engineer approved equal.

3. Provide base mount free-standing unhoused spring vibration isolators with 1/4" minimum neoprene noise isolation pads, Kinetics FDS series or Engineer approved equal.
4. Provide 6" minimum thickness inertia base frame for the mounting of the booster pump, Kinetics series CIB-L or Engineer approved equal.

G. Factory Test and Certification

1. The booster system and its component parts shall undergo a complete operating flow test from zero to 100% design flow rate under the specified suction and net system pressure conditions. The system shall carry an ETL certification of testing.

H. Start-Up-Service

1. The service of a factory-trained representative shall be provided on the jobsite for a minimum of one (1) day to provide the manufacturer's certification and start-up of the booster pump assembly. A formal report is to be issued indicating any revisions required for certification of the assembly by the manufacturer. Instruction and training of the operator's personnel shall be provided following certification of the assembly.

I. Acceptable manufacturers in compliance with the specified requirements:

1. Grundfos Hydro MPC-E 4CRE 15-4
2. Bell & Gossett Xylem
3. Armstrong
4. Aurora

2.3 POWER AND CONTROL PANEL

A. Assembly shall include a NEMA 12 power and control panel complete with three through the door disconnect switches, circuit breakers, magnetic starters each with 3 leg overload protection, fused control circuit transformer, automatic 24-hour alternation, low suction shutdown with visual alarm light and auxiliary contact, pump indicating lights, multiple position selector switches, control power light, low system indicating light, and lag pump start time delays. All of the above shall be factory internally pre-wired and tested in accordance with provisions of the National Electric Code. All control wires shall be individually numbered and each component shall be labeled accordingly. All internal wiring shall be copper stranded, A.W.G. with a minimum insulation of 90 degrees C. The complete assembly shall have the UL listing mark for industrial control panels.

B. Instrumentation and Emergency Controls:

1. Each system shall have panel mounted pressure gauges for indicating suction and system discharge pressure. A pre-wired and pre-piped temperature probe shall be installed in each pump and connected to a common electric purge valve for over temperature protection of pumps alarm horn with silence circuit, high system alarm with time delay, high suction shutdown with time delay, low level alarm light.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine equipment foundations and anchor-bolt locations for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roughing-in for piping systems to verify actual locations of piping connections before pump installation.

C. Examine foundations and inertia bases for suitable conditions where pumps are to be installed.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Provide pumps to operate at specified system fluid temperatures and scheduled capacities. Pumps shall operate without vapor binding and cavitations, are non-overloading in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.

B. Install pumps to provide access for periodic maintenance including removing motors, impellers, couplings, and accessories. Provide no less than the minimum as required by the manufacturer.

C. Independently support pumps and piping so weight of piping is not supported by pumps and weight of pumps is not supported by piping

D. Equipment Mounting: Install base-mounted pumps on cast-in-place concrete equipment bases.

1. Coordinate sizes and locations of concrete bases with actual equipment provided.

2. Construct bases to withstand, without damage to equipment, seismic force required by code.

3. Construct concrete bases 4 high and extend base not less than 6 inches in all directions beyond the maximum dimensions of base-mounted pumps unless otherwise indicated or unless required for seismic-anchor support.

4. Install base mounted pumps on concrete inertia base “RBMK” with spring isolators. Refer to section 22 05 00.

E. Install long radius reducing elbows or reducers between pump and piping. Support piping adjacent to pump so no weight is carried on pump casings. For close coupled, split coupled vertical in-line or base mounted pumps; install supports under elbows on pump suction and discharge line sizes four (4) inches and over.

F. Provide air cock and drain connection on horizontal pump casings.

G. Provide drains for bases and seals. Route to floor drain.

H. Lubricate pumps before start-up according to manufacturer's instructions.

I. Install manual by-pass with shut-off valve where backflow prevention is provided

3.3 ALIGNMENT

A. Alignment Service shall be performed by a factory authorized direct service technician. Alignment work shall not be performed by installing mechanical contractor.

B. Comply with pump and coupling manufacturers' written instructions.

3.4 CONNECTIONS

A. Coordinate piping installations and specialty arrangements with Drawings and with requirements specified in piping systems. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Where installing piping adjacent to pump, allow space for service and maintenance.

C. Connect piping to pumps. Install valves that are same size as piping connected to pumps.

D. Install suction and discharge pipe sizes equal to or greater than diameter of pump nozzles.

E. Install triple-duty valve on discharge side of pumps.

F. Install suction diffuser with stainless steel strainer and shutoff valve on suction side of pumps.

G. Install flexible connectors on suction and discharge sides of base-mounted pumps between pump casing and valves. Exception: do not install flexible connectors at or near split coupled vertical in-line pumps.

H. Install pressure gages on pump suction and discharge or at integral pressure-gage tapping, or install single gage with multiple-input selector valve.

I. All pump operation controls is under BAS Division 23.

3.5 STARTUP SERVICE

A. Start up service shall be performed by a factory authorized direct service technician. Start up work shall not be performed by installing mechanical contractor.

1. Complete installation and startup checks according to manufacturer's written instructions.

a. Check piping connections for tightness.

b. Clean strainers on suction piping.

c. Perform the following startup checks for each pump before starting:

1) Verify bearing lubrication.

2) Verify that pump is free to rotate by hand and that pump for handling hot liquid is free to rotate with pump hot and cold. If pump is bound or drags, do not operate until cause of trouble is determined and corrected.

3) Verify that pump is rotating in the correct direction.

d. Prime pump by opening suction valves and closing drains, and prepare pump for operation.

e. Start motor.

f. Open discharge valve slowly.

3.6 DEMONSTRATION

A. Demonstration shall be performed by a factory authorized direct service technician. Demonstration shall not be performed by installing mechanical contractor.

1. Train owner's maintenance personnel to adjust, operate, and maintain hydronic pumps.

2. Provide documentation of owner training in close out submittal. See additional requirements in section 22 05 00.

END OF SECTION 22 11 23

SECTION 22 40 00 - PLUMBING FIXTURES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. SECTION 22 05 00 – COMMON WORK RESULTS FOR PLUMBING

C. SECTION 22 05 16 – EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING

D. SECTION 22 05 29 – PLUMBING PIPE HANGERS AND SUPPORTS

E. SECTION 22 05 48.13 – VIBRATION CONTROLS FOR PLUMBING PIPING AND EQUIPMENT

1.2 SUMMARY

A. Provide a complete system of plumbing fixtures and trim.

B. All materials and equipment for the potable water system shall meet the latest mandates and requirements for lead free required by law that goes into effect January 2014.

1.3 SUBMITTALS

A. Product Data: Submit catalog illustrations of fixtures, sizes, rough-in dimensions, utility sizes, trim, and finishes.

B. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Accept fixtures on site in factory packaging. Inspect for damage.

B. Protect installed fixtures from damage by securing areas and by leaving factory packaging in place to protect fixtures and prevent use.

1.5 EXTRA MATERIALS

A. Furnish two sets of faucet washers flush valve service kits lavatory supply fittings shower heads toilet seats.

PART 2 - PRODUCTS

2.1 FLUSH VALVE WATER CLOSETS

A. Fixture Manufacturers:
   1. American Standard.

2. Eljer

3. Crane

4. Toto

B. Fixture Trim Manufacturers:
1. Sloan Royal

2. Zurn Aquaflush XL

3. Toto

4. Benke

5. Church

6. Olsonite

7. Centoco

8. Bemis

C. WC-1: ASME A112.19.2M; wall hung, siphon jet vitreous china closet bowl, with elongated rim, 1-1/2 inch top back spud, china bolt caps. Provide as indicated on plumbing fixture schedule.
1. Wall Mounted: American Standard 3351.101.020
2. Or as indicated on schedules.
3. Trim : (Type C)

D. WC-2: Same as WC-1, except mounted at ADA/TAS height for appropriate age group.
1. Wall Mounted: American Standard 3351.101.020
2. Or as indicated on schedules.
3. Trim : (Type C)
4. Provide flush valve stem offset as required.

E. Trim:
1. Exposed Flush Valve (Type C): ASME A112.18.1; exposed chrome plated, Aquavantage diaphragm type with non-hold open handle, escutcheon, 2” offset flush connection, integral screwdriver stop and vacuum breaker; maximum 1.28 gallon. Sloan Royal or Sloan Royal (ADA).

F. Seat: White plastic, open front, extended back, self-sustaining hinge, stainless steel mounting hardware, brass bolts, with without cover. Manufacturer: Bemis, Beneke, Olsonite, Centoco, and Church. Bemis 1655SSCT or provide as indicated on plumbing fixture schedule.

G. Wall Mounted Carrier: ASME A112.6.1; adjustable cast iron frame, integral drain hub and vent, adjustable spud, lugs for floor and wall attachment, threaded fixture studs with nuts and washers. Provide concealed flush valve support option. Jay R. Smith 200 series carriers, or equal by zurn, Josam, and watts.

2.2 WALL HUNG URINALS

A. Fixture Manufacturers:
   1. American Standard Plumbing.
   2. Eljer
   3. Crane
   4. Toto

B. Fixture Trim Manufacturers:
   1. Sloan Royal
   2. Zurn Aquaflush XL
   3. Toto

C. All urinal flush valves shall meet the latest mandates and requirements for lead free required by law that goes into effect January 2014.

D. U-1: ASME A112.19.2M; vitreous china, wall hung, elongated rim integral trap, removable stainless steel strainer, 3/4 inch top spud, provide chair carrier as required. American Standard Pintbrook Model 6002.001 or provide as indicated on plumbing fixture schedule.
   1. Trim : (Type C)

E. U-2: Same as U-1, except mounted at ADA/TAS height for appropriate age group.
   1. Trim : (Type C)

F. Trim:
   1. Exposed Flush Valve (Type C): ASME A112.18.1; exposed chrome plated, Aquavantage diaphragm type with non-hold open handle, escutcheon, integral screwdriver stop with vandal resistant stop cap, vacuum breaker; maximum one (1) pint flush volume. Sloan Royal or Sloan Royal (ADA).

G. Wall Mounted Carrier: ASME A112.6.1; cast iron and steel frame with rectangular legs, lugs for floor and wall attachment, threaded fixture studs for fixture hanger, bearing studs. Provide bottom bearing plate. Provide concealed flush valve support option. Jay R. Smith figure 0637, or equal by Zurn, Josam, and watts or provide as indicated on plumbing fixture schedule.

2.3 LAVATORIES

A. Fixture Manufacturers:
   1. American Standard Plumbing.
   2. Eljer
   3. Crane
   4. Toto

B. Fixture Trim Manufacturers:
   1. T & S Brass.
   2. Chicago.

C. Supply Fittings Manufacturers:
   1. Chicago.
   2. McGuire.
   3. Eljer.

D. All lavatory faucets and trim shall meet the latest mandates and requirements for lead free required by law that goes into effect January 2014.

E. L-1, Vitreous China Wall Hung Basin: ASME A112.19.2M; American Standard 0355.012 vitreous china wall hung lavatory 21 x 18 inch minimum, with four (4) inch high back, 3 deck holes, rectangular basin with splash lip, front overflow, and soap depression. Provide floor mounted carrier for correct lavatory type. Provide as indicated on plumbing fixture schedule.
   1. Student restrooms = Trim : (Type A)
   2. Faculty/staff restrooms = Trim : (Type B)

F. L-2, Vitreous China Wall Hung Basin: ASME A112.19.2M; American Standard 0356.421 vitreous china wall hung lavatory 21 x 18 inch minimum, with four (4) inch high back, single deck hole, rectangular basin with splash lip, front overflow, and soap depression. Provide floor mounted carrier for correct lavatory type. Provide as indicated on plumbing fixture schedule.
   1. Student restrooms = Trim : (Type A)
   2. Faculty/staff restrooms = Trim : (Type B)

G. Trims:
   1. Supply Fitting: ASME A112.18.1 (Type A); chrome plated brass spout, metering valve cartridge, supply fitting with open grid strainer, water economy aerator with maximum 0.5 gpm flow, ADA compliant. Chicago Faucet Co. Series, or equivalent by T&S Brass. Chicago 857-E12-665PSHCP.
   2. Supply Fitting: ASME A112.18.1 (Type B); chrome plated brass spout, supply fitting with open grid strainer, water economy aerator with maximum 0.5 gpm flow, ADA compliant. Chicago Faucet 797 Series or equivalent by T&S Brass.

H. Accessories:
   1. Chrome plated 17 gage brass P-trap with clean-out plug and arm with escutcheon.
   2. Chrome plated 17 gage open grid P. O. plug.
   3. Removable key stops.
   4. Flexible supplies.
   5. Trap and waste insulated and offset to meet ADA compliance.
   6. Tempering valve – Power LFe480 series, Acorn, or Leonard.

I. Floor Mounted Carrier: ASME A112.6.1; cast iron and steel frame with tubular legs, lugs for floor and wall attachment, threaded studs for fixture hanger, concealed arm supports, bearing plate and studs. Jay R. Smith 710 Series, or equal by Zurn and watts.

2.4 SINKS

A. Fixture Manufacturers:
1. Elkay Mfg.

2. Just

B. Fixture Trim Manufacturers:
1. Chicago Faucet Co.

2. T & S Brass

C. Supply Fittings Manufacturers:
1. Chicago.

2. McGuire.

D. All sink faucets and trim shall meet the latest mandates and requirements for lead free required by law that goes into effect January 2014.

E. SK-1: Single Compartment Bowl: ASME A112.19.3; 19-1/2 x 19-1/2" x 6-1/2 inch outside dimensions, 18 gage thick, Type 304 stainless steel. Self-rimming and undercoated, with 1-1/2 inch chromed brass stainless steel drain, ledge back drilled for trim. Elkay Model LRADQ191965PD or provide as indicated on plumbing fixture schedule.
1. Trim: ASME A112.18.1 (Type J1): chrome plated brass supply with rigid spout, 4" vandal proof wrist blade, water economy aerator with 0.5 gpm. Mechanical faucet deck mounted 8" fixed Center, dual supply for hot and cold water service Chicago Faucets Model 201-G8AE2805F317AB, or equivalent by T&S Brass and American Standard or provide as indicated on plumbing fixture schedule.

F. SK-2: Double Compartment Bowl: ASME A112.19.3; 33 x 19-1/2 x 6-1/2 inch outside dimensions 18 gage thick, Type 304 stainless steel. Self-rimming and undercoated, with 1-1/2 inch chromed brass stainless steel drains 3-1/2 inch crumb cups and tailpieces, ledge back drilled for trim. Elkay Model LRADQ331965PD or provide as indicated on plumbing fixture schedule.
1. Trim: ASME A112.18.1 (Type J1): chrome plated brass supply with rigid spout, 4" vandal proof wrist blade, water economy aerator with 0.5 gpm. Mechanical faucet deck mounted 8" fixed Center, dual supply for hot and cold water service Chicago Faucets Model 201-G8AE2805F317AB, or equivalent by T&S Brass and American Standard.

G. SK-3: Single Compartment Bowl: ASME A112.19.3; 25" x 21-1/4" x 6-1/2" outside dimensions, 18 gage thick, Type 304 stainless steel. Self-rimming and undercoated, with 1-1/2 inch chromed brass stainless steel drain, ledge back drilled for trim. Elkay Model LRADQ252165PD or provide as indicated on plumbing fixture schedule.
1. Trim: ASME A112.18.1 (Type J1): chrome plated brass supply with rigid spout, vandal proof water economy aerator with 0.5 gpm flow, 8" fixed center, 4" vandal proof Wrist blade Chicago Faucet Model 201-G8AE2805F317AB, or equivalent by T&S Brass and or provide as indicated on plumbing fixture schedule.

H. Accessories:
1. Chrome plated 17 gage brass P-trap with clean-out plug and arm with escutcheon.

2. Chrome plated 17 gage brass basket strainer.

3. Removable key stops.

4. Flexible supplies.

5. Trap and waste insulated and offset to meet ADA compliance.

I. Provide offset waste on all sinks.

2.5 LAB SINKS (LS-X)

A. Manufacturers:
1. Kewaunee

2. Fisher Hamilton Industries

3. Total Lab Solutions

4. Durcon

5. LOC Scientific

B. Fixture Trim Manufacturers:
1. Chicago Faucet Co.

2. T & S Brass

C. Supply Fittings Manufacturers:
1. Chicago.

2. McGuire.

D. ▲**ADD#3** Drop-in Type Sinks:
1. (LS – A) Single Compartment Bowl: ASME A112.19.3; 19-1/2 x 19-1/2" x 6-1/2 inch outside dimensions, 18 gage thick, Type 304 stainless steel. Self-rimming and undercoated, with 1-1/2 inch chromed brass stainless steel drain, ledge back drilled for trim. Elkay Model LR1919PD. (coordinate with lab furniture for exact dimension).

2. (LS – B) Single Compartment ADA Bowl: ASME A112.19.3; 19-1/2 x 19-1/2" x 6-1/2 inch outside dimensions, 18 gage thick, Type 304 stainless steel. Self-rimming and undercoated, with 1-1/2 inch chromed brass stainless steel drain, ledge back drilled for trim. Elkay Model LRADQ191965PD. (coordinate with lab furniture for exact dimension).

3. (LS – 1) Single Compartment Bowl: ASTM- D-635 Lipped Drop-in 18"L x 15"W x 8" D Duratop epoxy sink with poly drain outlet, overflow and stopper. (Coordinate with lab furniture for exact dimension).

4. (LS – 2) Single Compartment ADA Bowl: ASTM- D-635 Lipped Drop-in 18”L x 15”W x 5” D (ADA) Duratop epoxy sink with poly drain outlet, overflow and stopper. (Coordinate with lab furniture for exact dimension).

E. Provide stainless steel strainer, outlet, standpipe overflow, and stopper for all sinks unless otherwise specified.

F. Provide tailpieces and trap compatible with waste piping systems for all sinks unless otherwise specified.

G. Provide units that comply with SEFA 7, Laboratory Fixtures. Provide Chicago Faucets Model LWM11-B13-G faucet & fittings or as indicated on Drawings, complete with washers, locknuts, nipples, and other installation accessories. Include wall and deck flanges, escutcheons, handle extension rods, and similar items.

H. Provide Chicago Faucets Model LGB1 Series turret or as indicated on Drawings, complete with washers, locknuts, nipples, and other installation accessories. Include wall and deck flanges, escutcheons, handle extension rods, and similar items.

I. Finish: Polished chrome on brass body with a clear acid and solvent-resistant epoxy coating unless specified otherwise.

J. Equip valve handles with color coded plastic index buttons as follows:

Service	Indexing	Button Color	Lettering Color
Cold Water (Potable)	CW	Green	White
Hot Water (Potable)	HW	Red	White
Lab Air	AIR	Orange	Black
Natural Gas	GAS	Dk. Blue	White
Vacuum	VAC	Yellow	Black
Deionized Water	DI	White	Black
Carbon Dioxide	CO2	Pink	Black
Reverse Osmosis Water	RO	White	Black
Argon	AR	Violet	White
Helium	HE	Black	White
Hydrogen	H2	Pink	Black
Specialty Gas	SG	Lt. Blue	Black

Trim Manufacturers:
1. Chicago Faucets

2. T&S Brass

K. Preparation: Provide openings, accesses, cutouts, etc., in casework units and tops as necessary to permit installation of fittings at the Project Site.

2.6 LAVATORY and SINK INSULATION KIT

A. Manufacturers:
1. Truebro/IPS
2. Plumberex
3. Zurn

B. Product Description: Safety Covers conforming to ANSI A177.1 and consisting of insulation kit of molded closed cell vinyl construction, 3/16 inch thick, white color, for

insulating tailpiece, P-trap, valves, and supply piping. Furnish with weep hole and angle valve access covers.

2.7 SHOWERS (Regular) – (SH-1)

A. Manufacturers:
1. Acorn Engineering Company.

2. Symmons

3. Bradley

B. SH-1: ASME A112.18.1; concealed shower supply with pressure balanced or thermostatic mixing valves, integral service stops, chrome plated vandal-proof institutional head with integral wall mounting flange, built-in 1.5 gpm flow, and escutcheon. Acorn – SV16-LVR – 519 - MSH - F1.5 or provide as indicated on plumbing fixture schedule.

2.8 SHOWERS (ADA) – (SH-2)

A. Manufacturers:
1. Acorn Engineering Company.

2. Symmons

3. Bradley

B. SH-2 ADA: ASME A112.18.1 and ASSE 1016-2011; concealed shower supply with pressure balanced and thermostatic mixing valves, integral service stops, hand held shower () with 69 inch metal clad hose and 24 inch glide mounted on right hand side (), flow rate 1.5 GPM. ACORN – SV16-LVR – HHC15 - HHSH - HHSE - IVB – SB – PK or provide as indicated on plumbing fixture schedule.

2.9 SHOWER (Regular) – (SH-3)

A. Manufacturers:
1. Acorn Engineering Company.

2. Symmons

3. Bradley

B. SH-3: ASME A112.18.1; Wall mounted shower systems, slow compression-type volume control/shutoff, H-06 institutional shower head, 1.6 GPM. Factory pre-assembled with 18 gauge stainless steel cover, exposed parts chrome plated, vandal resistant. Acorn 450B or provide as indicated on plumbing fixture schedule.

2.10 ELECTRIC DRINKING FOUNTAIN

A. Manufacturers:
1. Elkay Mfg.

B. Supply Fittings Manufacturers:
1. Chicago.

2. McGuire.

C. All electric water coolers shall meet the latest mandates and requirements for lead free required by law that goes into effect January 2014.

D. Fountain: (EDF-1)
1. ARI 1010; (ADA) Hydroboost bottle filling station, bi-level cooler, wall mount, filtered 8 GPH Stainless. Mechanically activated, sanitary sensor activated, green counter, laminar flow, antimicrobial, real drain. Electronic bottle filler sensor with mechanical front and side bubbler pushbar. Elkay LZSTL8WSBPRO provide as indicated on plumbing fixture schedule.

2. Capacity: 7.6 gph of water with inlet at 80 degrees F and room temperature of 90 degrees Fahrenheit.
3. Electrical: 115V / 60HZ. Maximum 1/5 hp compressor, cord and plug for connection to electric wiring system including grounding connector.

4. Provide cane touch apron, Elkay Series compatible cane touch apron.

2.11 EMERGENCY COMBINATION SHOWER WITH EYE AND FACE WASH (EW-1)

A. Manufacturers:
1. Guardian Safety Equipment

2. Speakman

B. Barrier Free, all stainless steel construction, corrosion resistant, combination eye/face wash and shower safety station with stainless steel shower head, stainless steel bowl, stainless steel flag handle and floor flange, 1 ¼" IPS Schedule 40 stainless steel pipe and fittings, 1" IPS and ½" IPS U.S. made stainless steel stay open ball valves, and polished stainless steel pull rod. Unit shall have (4) polypropylene 'GS Plus' spray heads with integral "flip-top" dust covers, filters, and 1.8-GPM flow control orifices mounted on a stainless steel head assembly. Unit shall include ANSI compliant sign.

C. Performance: Unit complies with ADA requirements for accessibility by handicapped persons. Unit shall meet or exceed ANSI Z358.1 – 2004, and come with a full 2-year warranty.

D. Fixture:
1. (EW-1): Guardian Equipment GBF 2250-PCC for all Lab Classrooms.

E. Alarm Option:
1. AP275-200 alarm unit, with light and horn. (blue color light) Light and horn shall be installed in corridor outside of science lab (120 VAC, 0.5 AMP).

2. Locate the blue light in the ceiling of the main corridor area directly outside room where emergency shower is installed. Provide one light per shower/valve configuration. Guardian AP280-235 (120v/1/60hz – 0.11 amp) for GBF 2250 Series.

F. Hot water Option: ASSE compliant TMV shall be included within the specified unit.

G. Supply and Waste Piping: As per the Contract Documents.

H. Furnish universal emergency sign.

2.12 SERVICE SINKS (SS-1)

A. Manufacturers:
1. Fixture Manufacturers:
a. Fiat Products
b. Acorn
c. Stern Williams
d. Crane

2. Fixture Trim Manufacturers:
a. Chicago Faucet Co.
b. Fiat Products
c. Stern Williams
d. T & S Brass.

B. SS-1: Single bowl 24 x 24 x 10 inch high. Receptor composed of pearl grey marble chips and white Portland cement ground smooth, grouted and sealed to resist stains, floor mounted, with 1-1/4 inch wide shoulders, vinyl bumper guard, stainless steel dome strainer. Stern Williams Model MTB-2424 or provide as indicated on plumbing fixture schedule.

C. Accessories:
1. Sink Fittings: Trim: ASME A112.18.1 exposed wall type supply with cross handles, spout wall brace, vacuum breaker, hose end spout, strainers, eccentric adjustable inlets, integral screwdriver stops with covering caps and adjustable threaded wall flanges. Stern Williams Model T-10-VB.

2. Three (3) feet of 5/8 inch diameter plain end reinforced synthetic hose with stainless steel wall bracket. Stern Williams Model T-35.

3. Mop hanger. Stern Williams Model T-40.

4. Or provide as indicated on plumbing fixture schedule.

D. SS-2: 12” corner type w/drop front, bowl 32 x 32 x 12 inch high. Receptor composed of pearl grey marble chips and white Portland cement ground smooth, grouted and sealed to resist stains, floor mounted, with 1-1/4 inch wide shoulders, vinyl bumper guard, stainless steel dome strainer, floor mounted. Stern Williams Model SBC-1725 or provide as indicated on plumbing fixture schedule.

E. Accessories:
1. Sink Fittings: Trim: ASME A112.18.1 exposed wall type supply with cross handles, spout wall brace, vacuum breaker, hose end spout, strainers, eccentric adjustable inlets, integral screwdriver stops with covering caps and adjustable threaded wall flanges. Chicago Faucets 897 Series.

2. Three (3) feet of 5/8 inch diameter plain end reinforced synthetic hose with stainless steel wall bracket. Stern Williams Model T-35.

3. Mop hanger. Stern Williams Model T-40.

2.13 FLOOR DRAINS

A. Manufacturers:
1. Jay R. Smith Mfg.,

2. Wade Spec. Products

3. Zurn Industries

B. Floor Drain (FD-1): ASME A112.21.1; Top round floor drain, lacquered cast iron two piece body with double drainage flange, weep holes, reversible clamping collar, and round, adjustable nickel-bronze strainer. Zurn ZN-415-BZ1 (Vandal-Proof Secured Top) or provide as indicated on plumbing fixture schedule.

C. Floor Drain (FD-2): ASME A112.21.1; Top round floor drain, lacquered cast iron two piece body with double drainage flange, weep holes, reversible clamping collar, and round, adjustable light duty square nickel-bronze strainer with removable perforated sediment bucket. Zurn ZN-415N-P (Vandal-Proof Secured Top) or provide as indicated on plumbing fixture schedule.

D. Floor Drain (FD-3): ASME A112.21.1; Cast iron flanged receptor with seepage holes, acid resistant coated interior and indirect waste drain, nickel bronze rim and secured grate. Secondary strainer or sediment bucket with. Zurn ZN-1970-KC-11 (Vandal-Proof Secured Top) with 4” funnel drain for freezer drain only or provide as indicated on plumbing fixture schedule.

2.14 FLOOR SINKS

A. Manufacturers:
1. Jay R. Smith Mfg.

2. Wade Spec. Products

3. Zurn Industries

B. Floor Sink (FS-1): Cast iron body with integral seepage pan, acid resistant interior, nickel bronze rim and secured 1/2 grate. Aluminum dome bottom strainer and eight (8) inch square top. Zurn ZN-1910-K Series (Vandal-Proof Secured Top) or provide as indicated on plumbing fixture schedule.

C. FS-2: Zurn ZN-1900-KC, 12 inches, 3/4 grate (Vandal-Proof Secured Top) or provide as indicated on plumbing fixture schedule.

D. FS-3: Zurn ZN-1900-KC, 12 inches, 1/2 grate (Vandal-Proof Secured Top) or provide as indicated on plumbing fixture schedule.

2.15 TRAP SEAL PRIMERS

A. Manufacturers:
1. PPP Inc.

2. Jay R. Smith Mfg.

3. Siouxchief

4. Zurn Industries

5. Mifab

6. Watts

B. Trap Seal Primers-Pressure Drop Type (TP-1)
   1. Adjustable to the static line pressure by use of the adjusting screw. System operating range is 20 psi minimum to 80 psi. The trap Primer is to be connected to a cold water supply with isolation valve.
      a. PPP Model P1-500 will prime 1-4 floor drains using DU-U Distribution unit.
      b. PPP Model P2-500 will prime 1-2 floor drains using DU-U Distribution unit.

C. Trap Seal Primer: (TP-3), Jay R. Smith 2699 Series.

D. Trap Seal Primers-electronic Type (TP-E)
   1. Vacuum breaker trap primer attached to water supply manifold, similar to Zurn Z-1020 with copper waterway.
   2. Accessories:
      a. Slow closing 24 VAC solenoid valve.
      b. 120 – 24 VAC transformers.
      c. Brass atmospheric vacuum breaker.
      d. Copper connection outlets

2.16 TRENCH DRAIN

A. Design: Provide the following type of drain systems.
   1. Manufacturers:
      a. Zurn

B. TD-1: ENGINEERING SPECIFICATION: Zurn Z886 Channels are 80" [2032mm] long, 6-1/4" [159mm] wide reveal and have a 4" [102mm] throat. Modular channel sections are made of 0% water absorbent High Density Polyethylene (HDPE). Channels have a positive mechanical connection between channel sections that will not separate during the installation and mechanically lock into the concrete surround a minimum of every 10" [254mm]. Channels weigh less than 2.31 lbs. per linear foot [3.9 kg/m], have a smooth, 1-1/2" [38mm] radiused self cleaning bottom with a Manning's coefficient of .009 and .75% or neutral 0% built in slope. Channels have rebar clips standard to secure trench in its final location.

C. HPP GRATE ENGINEERING SPECIFICATION: The Zurn P6-HPP, 20" [508mm] X 5-3/8" [137mm] High Density Polyethylene (HDPE) heel-proof slotted grate weighing .9 lbs per linear foot [1.3kg/m]. The grate has an open area of 17.4 in² per linear foot [367cm²/m]. Grate conforms to DIN rating of A, ANSI rating of Light-Duty, ADA compliant*, and Densetec 100 HDPE or Approved Equivalent. *Elongated openings must be placed perpendicular to the dominant direction of travel.

2.17 CLEANOUTS

A. Cleanouts shall be provided where indicated on Drawings and elsewhere as required by code.
   1. Cleanouts in pipelines shall consist of cast iron ferrule and heavy duty cleanout plug with square head as scheduled on the Drawings. Where piping is concealed in floors or walls cleanouts shall be installed in or near surface of floor or walls and have countersunk plugs with covers

B. Cleanouts shall be provided at the base of the stack on all sanitary, waste and drainage stacks. Base of stack cleanouts on piping located within walls or partitions shall be cast iron cleanout tee with countersunk plug and chromium-plated round access cover, J.R. Smith figure or approved equal.

C. Manufacturers:
   1. Jay R. Smith Mfg.
   2. Wade Spec. Products
   3. Zurn Industries

D. Floor, Outdoors (COTG or DCOTG): Coated cast iron body with gasket seal ABS plug and round cast iron scoriated non-skid cover. Jay R. Smith, Model 4220-F-C-U.

E. Floor, Indoors (FCO): Coated cast iron body with gasket seal ABS plug, threaded top assembly with round nickel bronze scoriated cover in service areas. Jay R. Smith, Model 4025 – F-C-U.

F. Wall Cleanout (WCO): Line type with lacquered cast iron body with bronze taper thread plug and round stainless steel access cover secured with vandal proof screw. Jay R. Smith Model 4420-U.

G. Floor, Stainless Steel Indoors (FCO-SS): Coated cast iron body with gasket seal ABS plug, threaded top assembly with round stainless steel scoriated cover in service areas. Jay R. Smith Model 9760 Series.

2.18 ROOF DRAINS

A. Roof Drain (RD-1):
   1. Assembly: ASME A112.21.2M and ASME 112.3.1 or ASME 112.6.4
   2. Body: Lacquered cast iron with sump.
   3. Strainer: Removable cast iron dome with vandal proof screws.
   4. Accessories: Coordinate with roofing type, provide all required accessories:
      a. Membrane flange and membrane clamp with integral gravel stop.
      b. Under deck ring with wide flange.
      c. Roof sump receiver.
      d. Waterproofing flange.
      e. Adjustable threaded extensions collar, bearing pan with SS hardware.
   5. Model:
      a. J. R. Smith – 1015-CID-C-R-U

b. Zurn – ZC100F-C-DR-R-VP
c. Wade – 3000-42-AE-VP-52-189

B. Overflow Roof Drain (OD-1):
1. Assembly: ASME A112.21.2M and ASME 112.3.1 or ASME 112.6.4.

2. Body: Lacquered cast iron with sump.

3. Strainer: Removable cast iron dome with vandal proof screws.

4. Waterdam extended to two (2) inches above flood elevation.

5. Accessories: Coordinate with roofing type:
a. Membrane flange and membrane clamp with integral gravel stop.
b. Adjustable under deck clamp.
c. Roof sump receiver.
d. Waterproofing flange.
e. Adjustable threaded extensions collar, bearing pan with SS hardware.

6. Model:
a. J. R. Smith – 1045-CID-C-R-U
b. Zurn – ZC100F-C-DR-R-VP-89
c. Wade – 3000-42-AE-VP-52-189-D

C. All roof drains shall be provided with no-hub connection.

2.19 HOSE BIBS

A. Manufacturers:
1. Woodford

2. Zurn Industries

B. HB-1:
1. Manufacturers: Woodford Model B24 or provide as indicated on plumbing fixture schedule.

2. Interior: Polish brass, anti-siphon, vacuum breaker, enclosed in flush mounted wall box and adjustable brass nut with deep stem guard.

C. HB-2:
1. Manufacturers: Woodford Model B65, or provide as indicated on plumbing fixture schedule.

2. Interior: Polish brass Bronze, automatic draining freezeless wall hydrant, single check hose connection anti-siphon vacuum breakers, hydrants drain as handle shut off , permanent type brass valve body with hemispherical seating surface.

D. HB-3:
1. Manufacturers: Woodford Model 24 or provide as indicated on plumbing fixture schedule.

2. Interior: Polish brass, anti-siphon, vacuum breaker and adjustable brass nut with deep stem guard.

2.20 WALL HYDRANTS

A. Manufacturers:
1. Woodford.

2. Zurn Industries

B. Exterior Wall Hydrant (WH-1):
1. Woodford RB67 Series, with box enclosure, freezeless, or provide as indicated on plumbing fixture schedule.

2. ASSE 1019; Chrome, freezeless, self-draining type with lockable recessed box hose thread spout, hand wheel locks shield and removable key, and integral vacuum breaker.

2.21 RECESSED VALVE BOX

A. Manufacturers: Guy Gray, or approved equal.

B. RVB-1, Refrigerator/Ice Machine: Stainless steel preformed rough-in box with brass valves with wheel handle slip in finishing cover. IPS Model SSMIB8AB.

C. RVB-2, Washing Machine: Galvanized steel preformed rough-in box with brass long shank valves with wheel handles, valves with single lever handle, socket for two (2) inch waste, slip in finishing cover. IPS Model SSWB-3.

2.22 DOWNSPOUT OVERFLOW

A. Hinged Cover Style:
1. Manufacturers: Jay R. Smith 1775-U Series or provide as indicated on plumbing fixture schedule.
2. Product Description: Fabricated Type 304 Stainless Steel Downspout Cover with Hinged Perforated Cover.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 01 31 13 - Administrative Requirements: Coordination and project conditions.

B. Verify walls and floor finishes are prepared and ready for installation of fixtures.

C. Verify electric power is available and of correct characteristics.

D. Confirm millwork is constructed with adequate provision for installation of counter top lavatories and sinks.

3.2 PREPARATION

A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture rough-in schedule for particular fixtures.

3.3 INSTALLATION

A. Install each fixture with trap, easily removable for servicing and cleaning.

B. Provide chrome plated rigid or flexible supplies to fixtures with loose key or screwdriver stops, reducers, and escutcheons.

C. Install components level and plumb.

D. Install and secure fixtures in place with wall supports wall carriers and bolts.

E. Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

F. For ADA accessible water closets, install flush valve with handle to wide side of stall.

G. Emergency Shower: Provide a floor drain at each shower installation. Jay R. Smith Model 2005-A07NB-P or provide as indicated on plumbing fixture schedule.

H. Ice maker: Provide floor sink and cold-water outlet RVB-1 to each location. Coordinate with Architecture Drawings prior to rough-in. Ensure drains are located at low point(s) of floor slope.

I. Water Heater: Provide floor drain to each location. Coordinate with Architecture Drawings prior to rough-in. Ensure drains are located at low point(s) of floor slope.

J. Janitor Closet: Provide floor drain to each location. Coordinate with Architecture Drawings prior to rough-in. Ensure drains are located at low point(s) of floor slope.

K. Commercial Washer: Provide floor drain to each location. Coordinate with Architecture Drawings prior to rough-in. Ensure drains are located at low point(s) of floor slope.

L. Washing Machine: Provide Hot and cold water outlet RVB-2 to each location. Coordinate with Architecture Drawings prior to rough-in.

M. Provide power wiring, including control power transformers as required for all sensor type fixtures.

N. Bolt carriers to the floor.

O. All sinks shall have an offset rear centered drain.

3.4 INTERFACE WITH OTHER PRODUCTS

A. Review millwork shop-drawings. Confirm location and size of fixtures and openings before rough in and installation.

3.5 ADJUSTING

A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.

B. Hot water temperature outlet at each sink and lavatory shall be adjusted to 105 degree F maximum except for water supplying clothes washing machines and kitchen equipment which shall supply with 140 degree F.

3.6 CLEANING

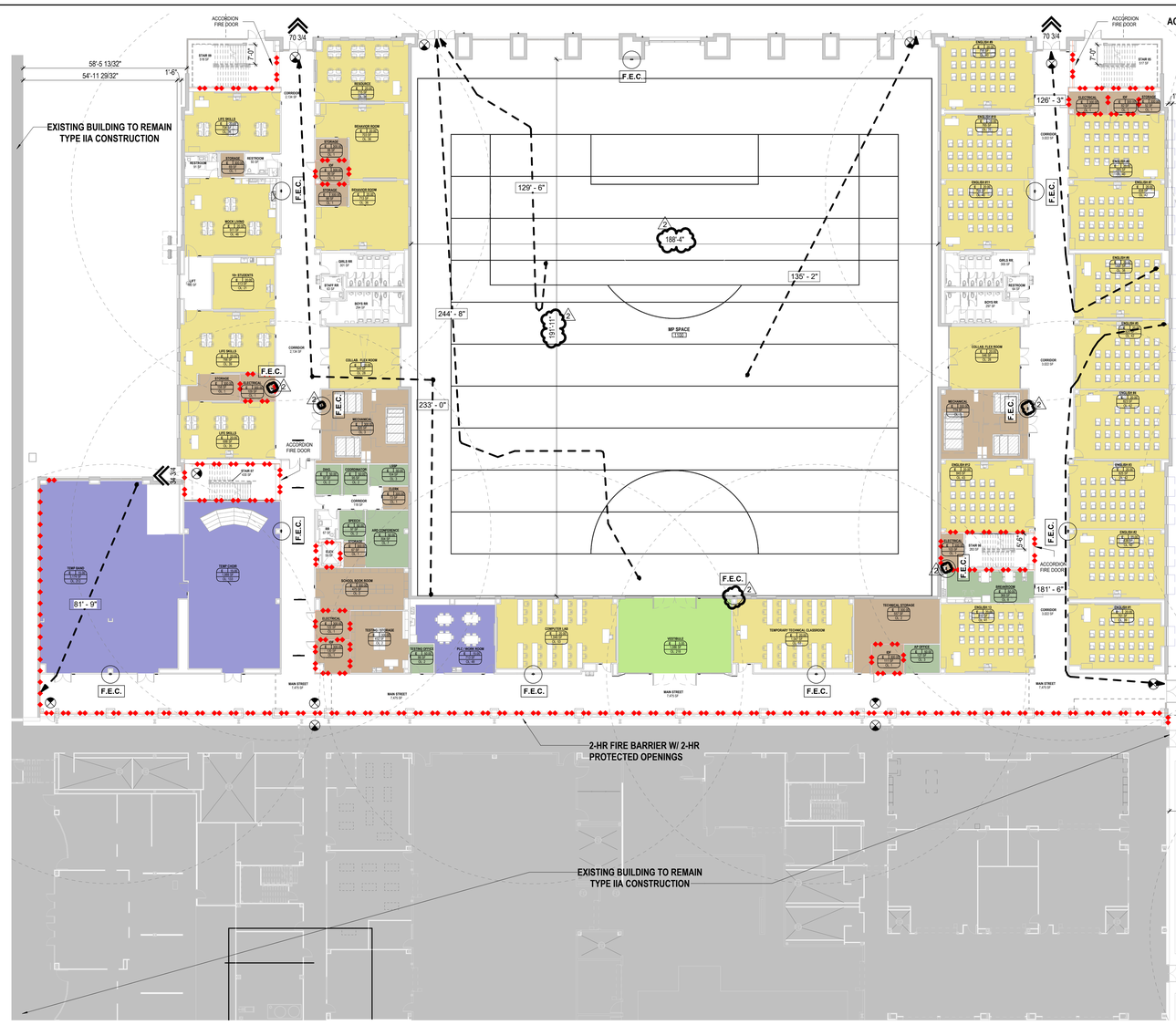
A. Clean plumbing fixtures and equipment.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

A. Do not permit use of fixtures before final acceptance.

END OF SECTION 22 40 00

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)
POINT OF ***EXIT ACCESS*** WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
POINT OF ***EXIT DISCHARGE*** WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
AUTOMATED EXTERNAL DEFIBRILLATOR
FIRE EXTINGUISHER CABINET
ACCESSIBLE PUSH PLATE ACTUATOR
FIRE EXTINGUISHER
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

		Water Closets + Urinals		Lavatories		Drinking Fountains		Bathtubs/Showers		Service Sinks	
Occupancy Type:E	Occupants	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

		Water Closets + Urinals		Lavatories		Drinking Fountains		Bathtubs/Showers		Service Sinks	
Occupancy Type:E	Occupants	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

KEY PLAN
NORTH: PLAN TRUE

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: IE

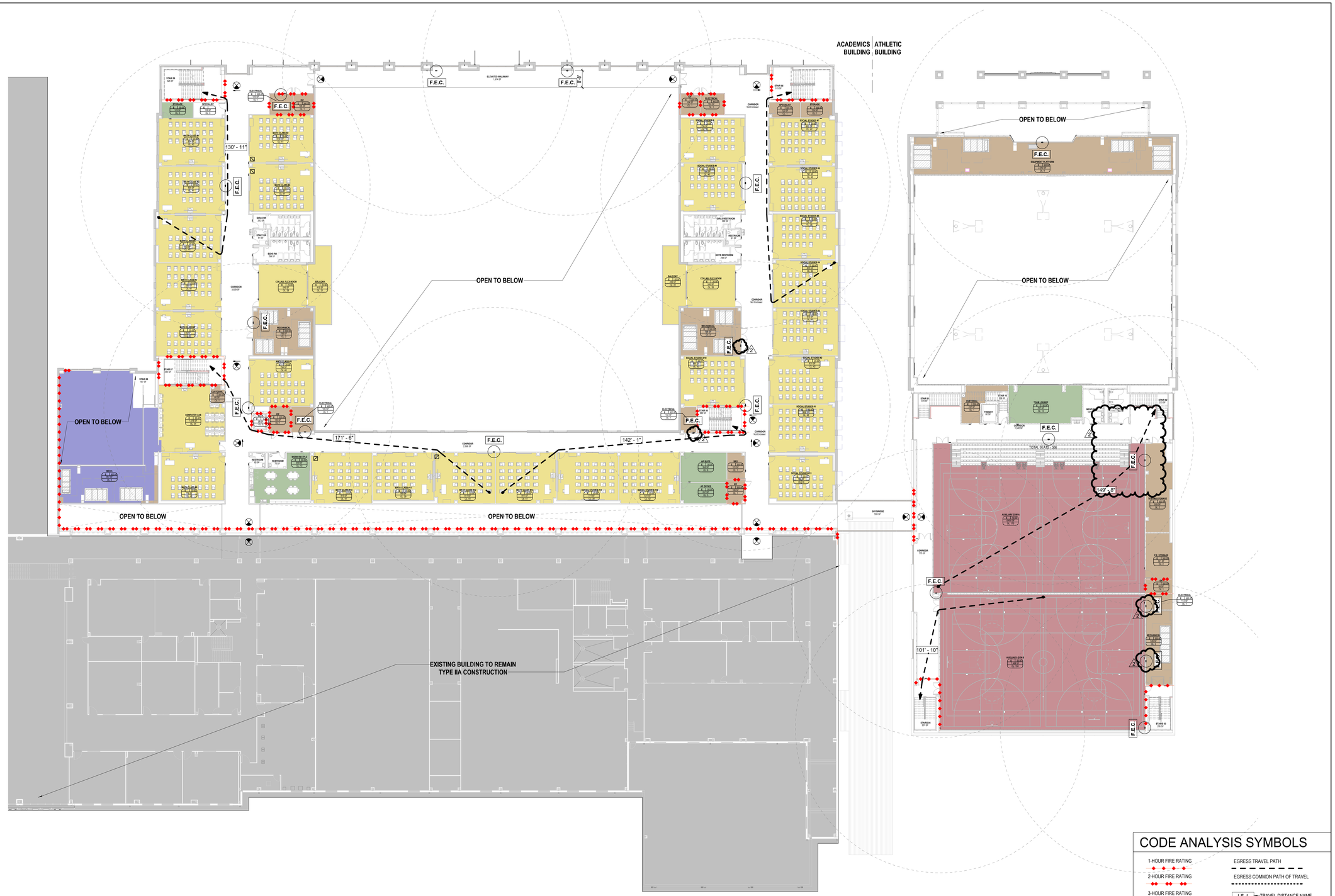
1ST FLOOR - CODE REVIEW

G-101

Plot Stamp:
12/18/2025 6:08:59 PM

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 / A-3 / 1500 SF / OL 00000 — OCCUPANCY TYPE / ROOM AREA / 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"

Plot Stamp:
12/18/2025 6:09:41 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

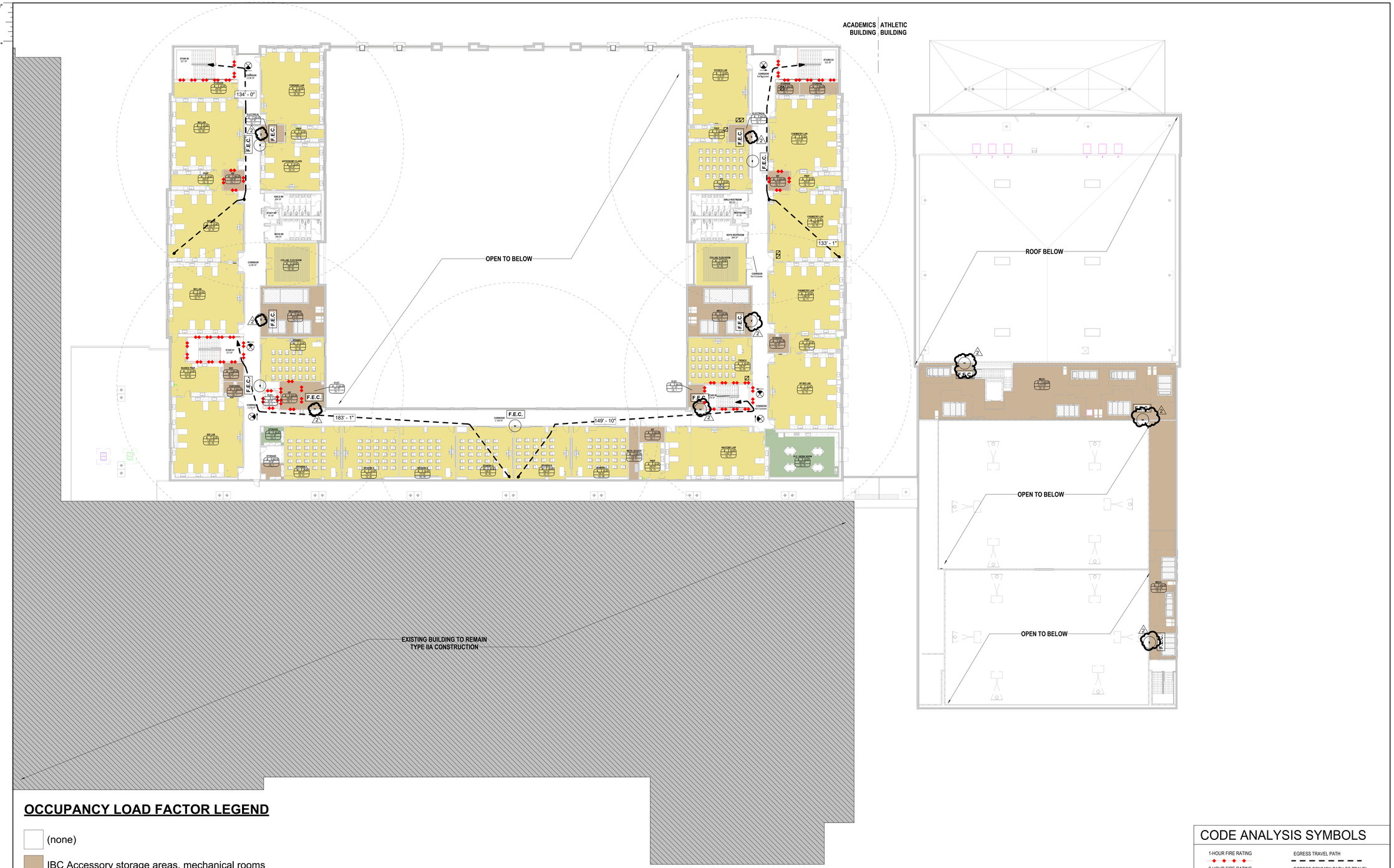
No.	Description	Date
2	ADD 03	2025/12/19

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 / A-3 100.0 / 150 SF / OL 00000 — OCCUPANCY TYPE, ROOM AREA, FUNCTION OF SPACE LOAD FACTOR, OCCUPANT LOAD FOR ROOM (NET FUNCTIONS ONLY)
- 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) — 35"
- 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:
12/18/2025 6:09:53 PM

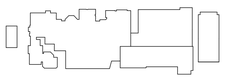
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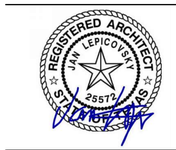
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN ≈ TRUE





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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker

DRAWN BY: IE

3RD FLOOR - CODE REVIEW

G-103

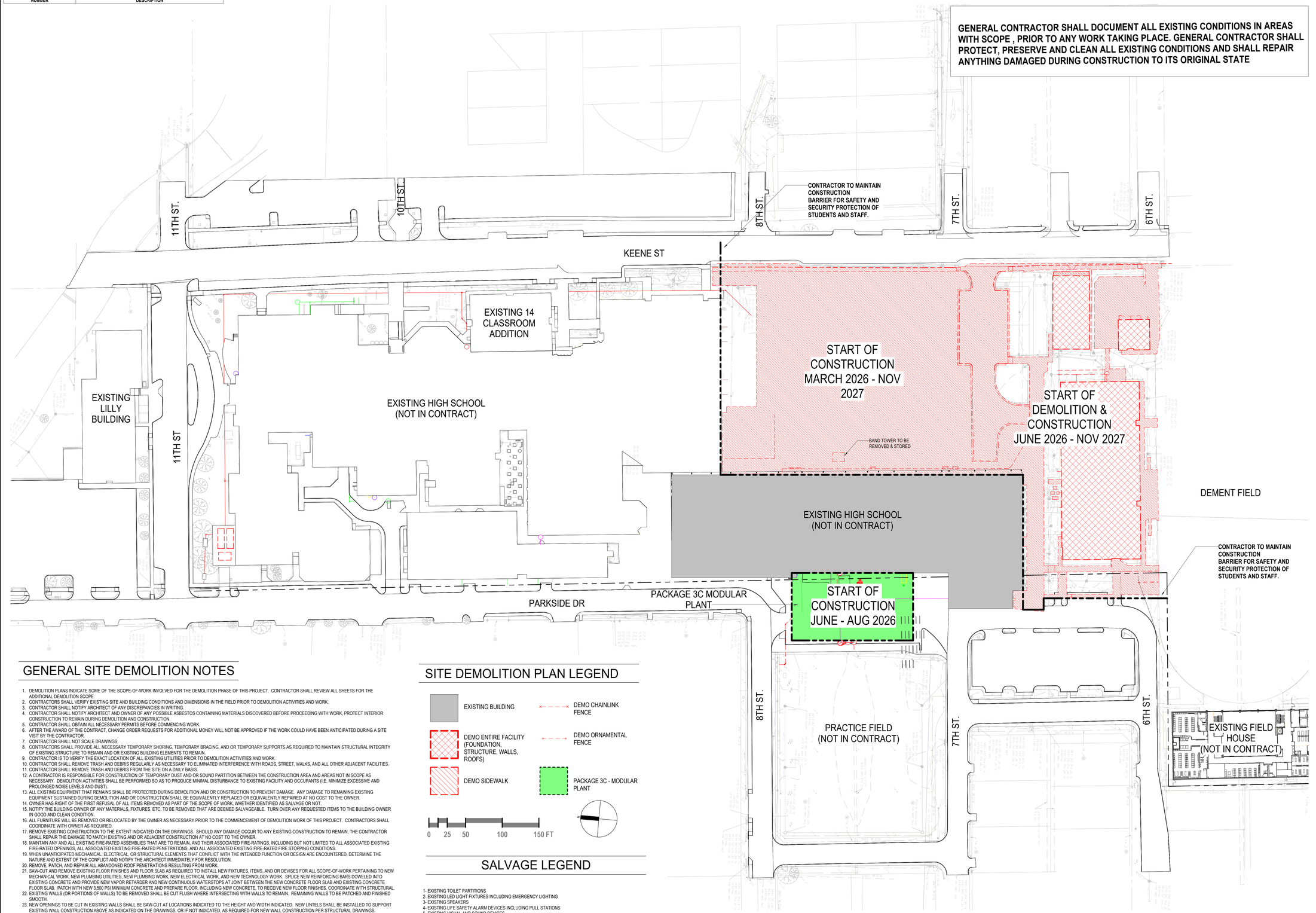
CONSTRUCTION PHASING PLAN
G-060
FOR BLUEBEAM LABELING/DOOR:

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
- PACKAGE 3C - MODULAR PLANT

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 Copy 1
1" = 50'-0"

Plot Stamp:
12/19/2025 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

STATE OF TEXAS REGISTERED ARCHITECT JAN KEPICS 25572

CLIENT
GALENA PARK ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

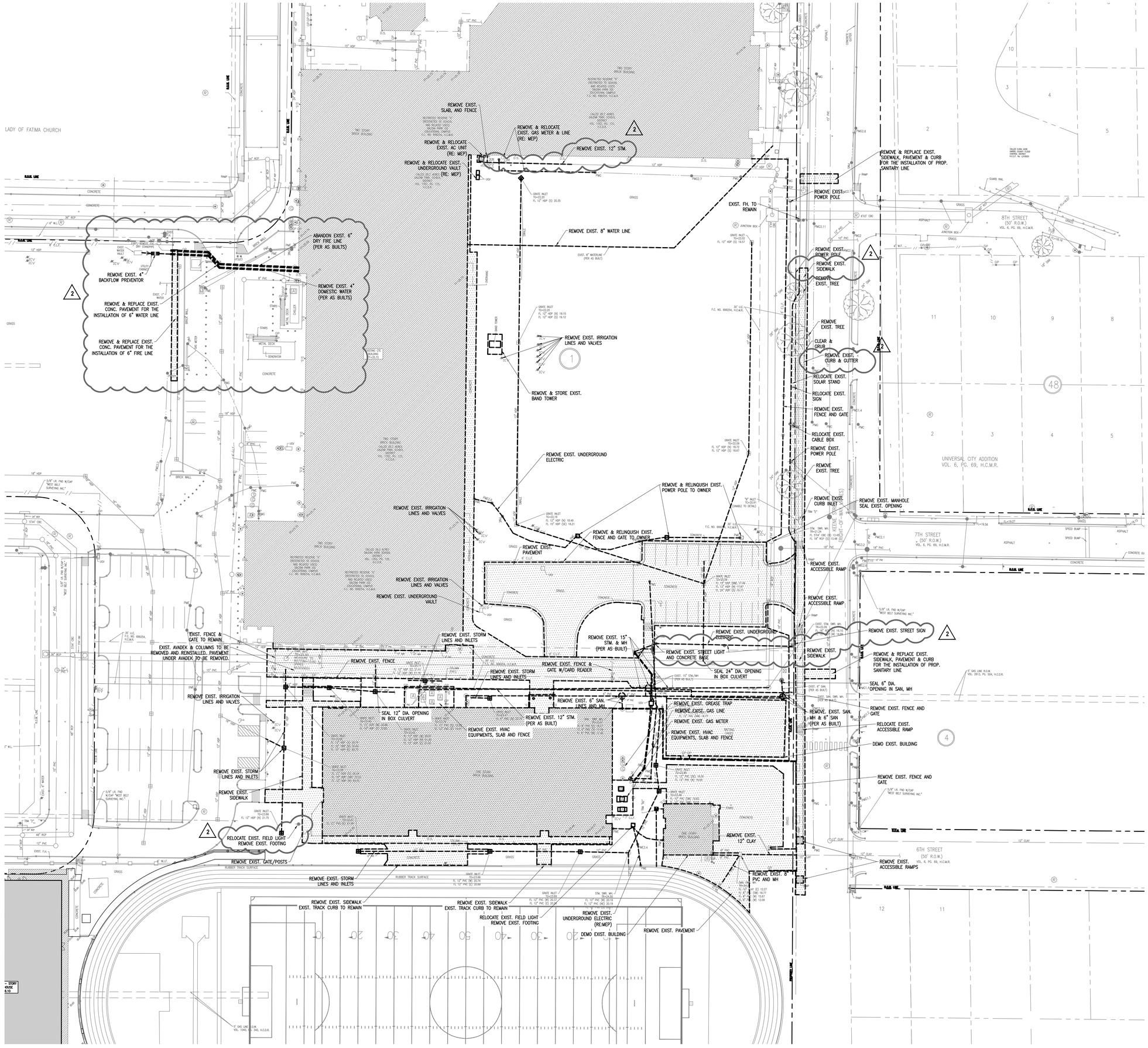
DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

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DRAWN BY: Author

CONSTRUCTION PHASING PLAN

G-060



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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

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
12/18/2025

ENGINEERS
F-18326

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/18/2025

CHECKED BY:RKR

DRAWN BY: JW

DEMOLITION PLAN

C 003

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Thursday, December 18, 2025 1:58:12 PM

NORTH

15 30
30 0 60

LADY OF FATIMA CHURCH

PROP. 3" BULL ROCK OVER GEOTEXTILE FABRIC

PROP. CONCRETE PAD FOR HVAC UNITS

PROP. FENCE (RE:ARCH)

PROP. CONCRETE WALK (RE: 4/ C 601)

PROP. CONCRETE RAMP RE: LANDSCAPE

PROP. CONCRETE WALK (RE: 4/C 601)

PROP. STAIRS RE: LANDSCAPE

PROP. BUS STOP

PROP. ASPHALT PAVEMENT (BUS DROP OFF)

PROP. MULTIPURPOSE BUILDING FF=25.72

PROP. CONCRETE WALK (RE: 4/C 601)

PROP. 10' LONG MOUNTABLE CURB

PROP. CONCRETE WALK (RE: 4/C 601)

PROP. STAIRS RE: LANDSCAPE

PROP. 6" CONC. CURB & GUTTER (RE: 2/C 601)

PROP. CONCRETE WALK (RE: 4/C 601)

PROP. CONCRETE RAMP RE: LANDSCAPE

PROP. PAVING RE: LANDSCAPE

PROP. PAVING RE: LANDSCAPE

EXIST. 35' UTILITY EASEMENT

PROP. STAIRS RE: LANDSCAPE

PROP. CONCRETE RAMP RE: LANDSCAPE

PROP. ADA RAMP (RE: 9/C 601)

PROP. STAIRS RE: LANDSCAPE

PROP. PAVING RE: LANDSCAPE

PROP. ATHLETICS BUILDING FF=25.72

PROP. CONCRETE WALK (RE: 4/C 601)

RELOCATED FIELD LIGHT LOCATION (RE: MEP/STRUCTURAL)

PROP. FIELD LIGHT LOCATION RE: MEP/STRUCTURAL

PROP. STAIRS RE: LANDSCAPE

PROP. ORNAMENTAL FENCE RE: ARCH.
PROP. MOW STRIP RE: ARCH.

CONNECT TO EXIST. FENCE

PROP. 6" CONC. CURB & GUTTER (RE: 2/C 601)

PROP. 6" CONC. CURB & GUTTER (RE: 2/C 601)

PROP. CONCRETE WALK (RE: 4/C 601)

8TH 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)

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.

5' GAS LINE R.O.W.
VOL. 3913, PG. 504, H.C.D.R.

5' GAS LINE R.O.W.
VOL. 1040, PG. 340, H.C.D.R.

EXISTING ONE BUILDING TO REMAIN

RAIL LINE

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

ISSUE FOR PROPOSAL

1000 Keene St.
Galena Park, TX 77547

Galena Park ISD

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713-865-0008
TX FIRM: BR 1608
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RAJEEB K. RAJBHANDARI
116968
LICENSED PROFESSIONAL ENGINEER
12/18/2025
ENGINEERS
F-18326

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/18/2025

CHECKED BY:RKR

DRAWN BY: JW

SITE PLAN

C 101

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NORTH

15 30
30 0 60

PROP. MULTIPURPOSE BUILDING
FF=25.72

PROP. ATHLETICS BUILDING
FF=25.72

LADY OF FATIMA CHURCH

RAIL LINE

PROP. 6" GV W/ BOX
CONNECT TO EXIST. 6" DRY FIRE LINE
PROP. 90° ELBOW
PROP. 6" 45° ELBOW
CONNECT TO EXIST. 6" WATER
PROP. 6" RPZ BACKFLOW PREVENTOR
PROP. 6"X6" TEE
PROP. GATE VALVE W/BOX
1-6"X6" TEE
1-1" GV W/BOX
1-6" GV W/BOX
PROP. 6" (FIRE) WATER LINE
PROP. 6" 90° ELBOW
PROP. 6" DRY FIRE WATER CONNECTION (RE:MEP FOR CONT.)
PROP. 6" 90° ELBOW
PROP. 6" (FIRE) WATER CONNECTION (RE:MEP FOR CONT.)
PROP. 6" DRY FIRE LINE
6" (DOW) WATER RE: MEP FOR CONT.

30" STM. & 8" SAN. X-ING
FL 30" RCB=14.78
FL 8" PVC=12.25

PROP. SAN. MH.
TR=3' ABOVE FINISHED GRADE
FL 8" SAN. (SW)=16.25
FL 8" SAN. (E)=12.30
FL 4" SAN. (SE)=15.85

60'~8" SAN @ 0.50%
18" STM. & 8" SAN. X-ING
FL 18" RCP=16.00
FL 8" PVC=12.12

PROP. SAN. MH.-7 W/DROP PIPE
TR=MATCH EXIST. TP
FL 12" SAN. (N&S)=10.00
FL 8" SAN. (W)=12.00

114'~6" SAN @ 1.00%
44'~8" SAN @ 0.50%
FL=16.50
FL=16.40
6" SAN FL=18.06 (RE:MEP FOR CONT.)
4" SAN FL=18.97 (RE: MEP FOR CONT.)
4" SAN. & 30" STM. X-ING FL 30" HDPE=17.68 FL 4" PVC=16.50
120'~4" SAN @ 2.00%
4" SAN FL=18.39 (RE: MEP FOR CONT.)

8TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.

UNIVERSAL CITY ADDITION VOL. 6, PG. 69, H.C.M.R.

KEENEY STREET (RIGHT-OF-WAY VARIES)

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.

4" SAN FL=18.39 (RE: MEP FOR CONT.)
PROP. SAN. MH.-4 TR= MATCH PROP. TP FL 4" SAN. (W)=17.60 FL 6" SAN. (SW)=14.00 FL 8" SAN. (E)=10.30 FL 4" SAN. (NE)=16.60
82'~4" SAN @ 2.00%
5'~ 4" PVC @ 2.00%
4" SAN FL=18.39 (RE:MEP FOR CONT.)
4" SAN FL=18.53 (RE:MEP FOR CONT.)
4" SAN FL=17.72 (RE:MEP FOR CONT.)
FL=14.50
188'~ 4" SAN @ 2.00%
60'~ 8" PVC @ 0.50%
PROP. SAN. MH. W/DROP PIPE TR= MATCH EXIST. TP FL 12" SAN. (N&S)=8.50 FL 8" SAN. (E)=10.00
18" SAN & 8" SAN X-ING FL 18" PVC=12.00 FL 8" PVC=10.20
5'X4' STM & 8" SAN X-ING FL 5'X4' RCB= 13.63 FL 8" PVC=10.25
PROP. SAN MH-2 TR= MATCH PROP. TP FL EXIST. 12" CLAY (E)=11.90 (CONTRACTOR TO VERIFY) FL 12" PVC (SW)=11.90
60'~ 6" SAN @ MIN. 1.00%
FL=19.00
6" SAN FL=20.14 (RE:MEP FOR CONT.)
6" SAN FL=19.14 (RE:MEP FOR CONT.)
50'~ 8" SAN @ MIN. 0.50%
FL=18.75
6" SAN FL=20.14 (RE:MEP FOR CONT.)
160'~ 10" SAN @ MIN. 0.40%
EXIST. 18" SAN. (PER AS BUILTS)
6" SAN FL=18.55 (RE:MEP FOR CONT.)
FL=18.10
PROP. SAN. MH.-3 TR= MATCH PROP. TP EX. FL 15" SAN. (E&W)=12.00 FL 10" SAN.=18.05
36'~ 6" PVC @ 1.00%
20'~ 10" PVC @ MIN. 0.40%
FL=14.10
60'~ 8" SAN. @ MIN. 0.34%
PROP. SAN MH-1 TR=3' ABOVE EXIST. FINISHED GRADE FL 12" PVC (NE)=12.12 FL. EXIST. 12" PVC (SW)=12.12 (CONTRACTOR TO VERIFY)

5" GAS LINE R.O.W. VOL. 1043, PG. 540, H.C.D.R.

30' U.E. F.C. NO. 699254, H.C.M.R.

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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713-865-0008

Galena Park ISD

RAJEEB K. RAJBHANDARI
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ENGINEERS F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
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DRAWING HISTORY

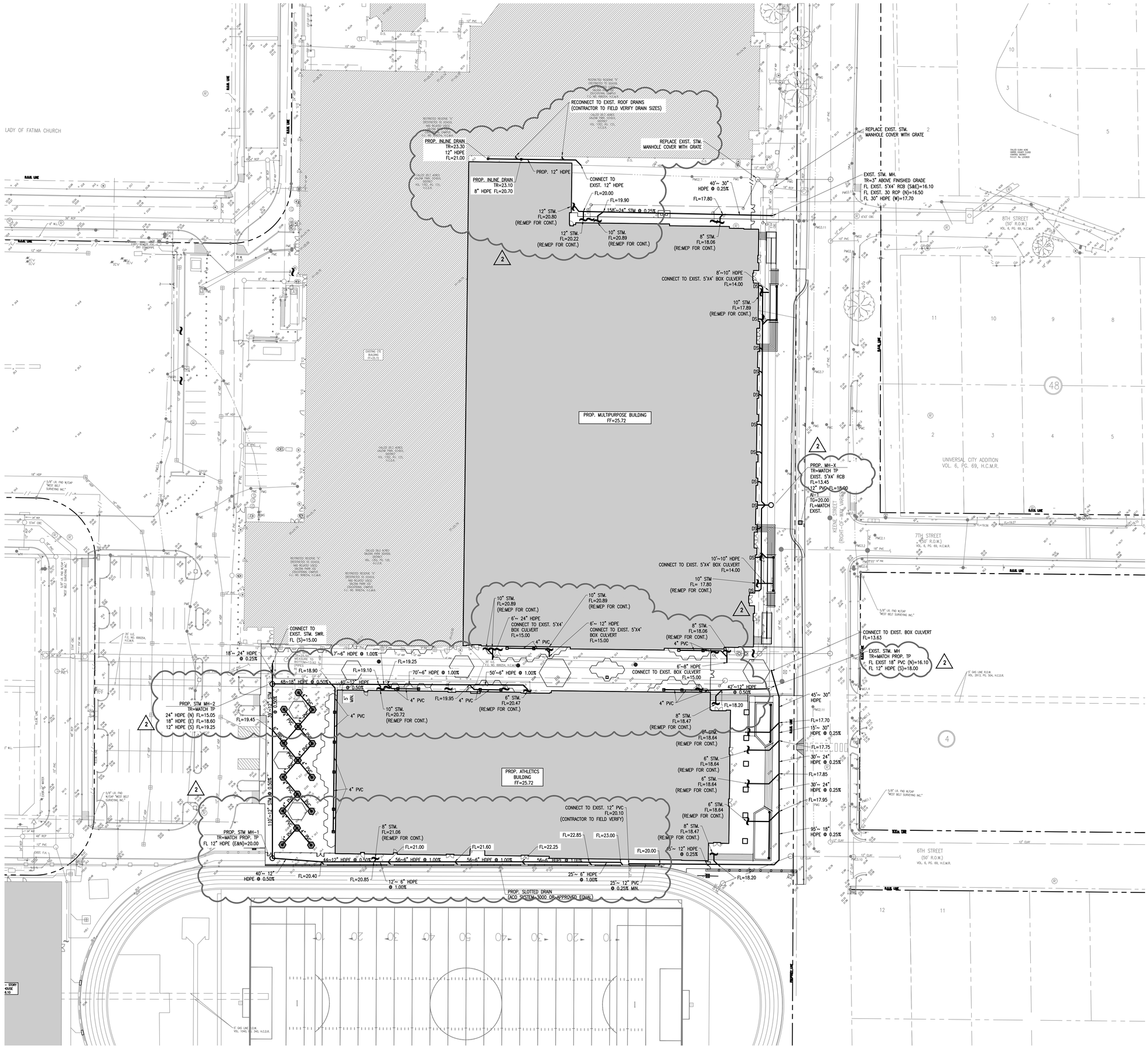
No.	Description	Date
2	ADDENDUM 3	12/18/2025

CHECKED BY: RKR
DRAWN BY: JW

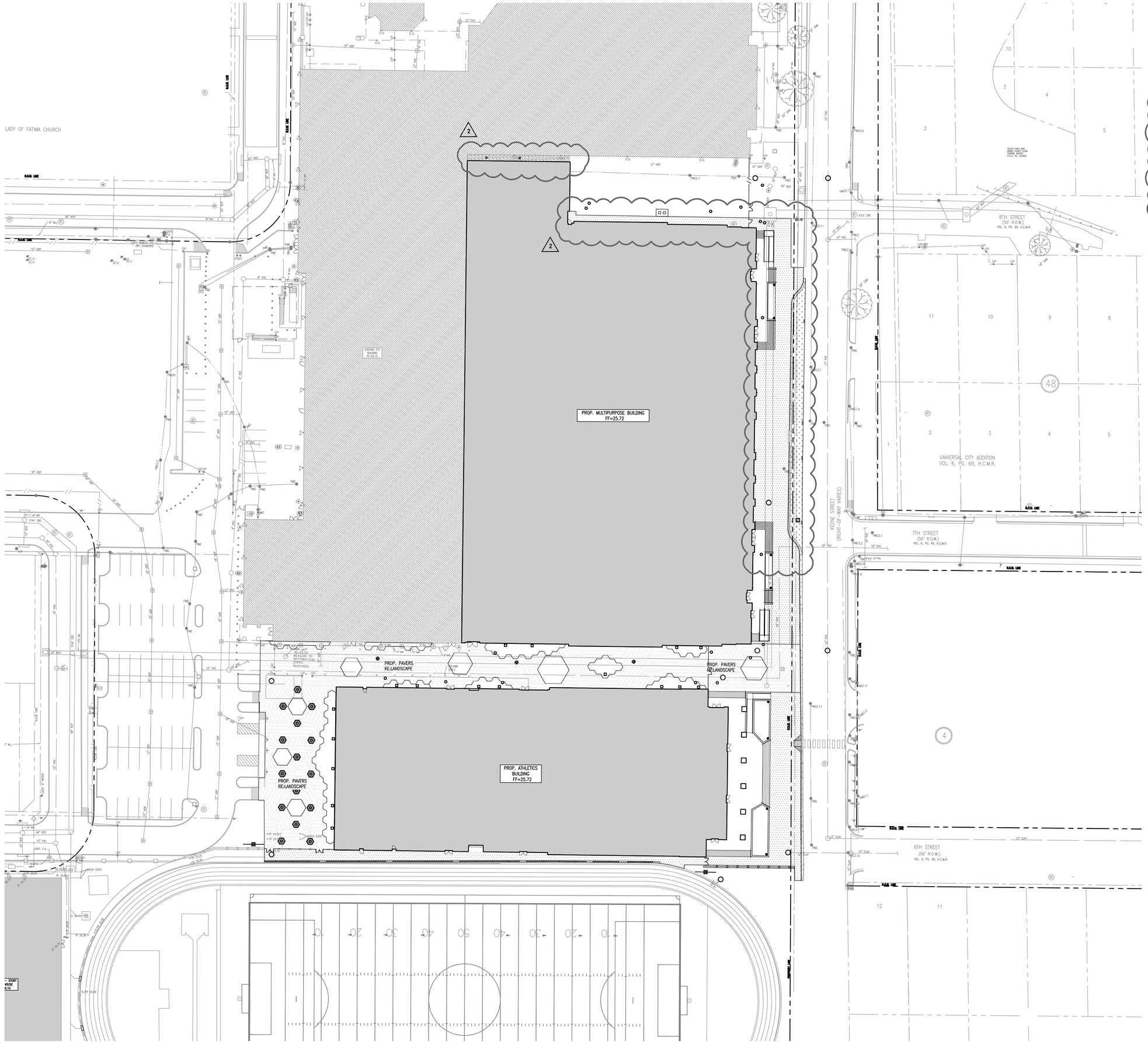
UTILITY PLAN

C 201

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NORTH
15
30
30
0
60
LADY OF FATIMA CHURCH
RAIL LINE
RECONNECT TO EXIST. ROOF DRAINS (CONTRACTOR TO FIELD VERIFY DRAIN SIZES)
PROP. INLINE DRAIN TR=23.30 12" HDPE FL=21.00
PROP. INLINE DRAIN TR=23.10 8" HDPE FL=20.70
PROP. 12" HDPE
CONNECT TO EXIST. 12" HDPE FL=20.00
FL=19.90
158'~24" STM @ 0.25%
FL=17.80
40'~ 30" HDPE @ 0.25%
REPLACE EXIST. STM. MANHOLE COVER WITH GRATE
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
12" STM. FL=20.80 (RE:MEP FOR CONT.)
12" STM. FL=20.22 (RE:MEP FOR CONT.)
10" STM. FL=20.89 (RE:MEP FOR CONT.)
8" STM. FL=18.06 (RE:MEP FOR CONT.)
8'~10" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=14.00
10" STM. FL=17.89 (RE:MEP FOR CONT.)
PROP. MULTIPURPOSE BUILDING FF=25.72
8TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
UNIVERSAL CITY ADDITION VOL. 6, PG. 69, H.C.M.R.
PROP. MH-X TR=MATCH TP EXIST. 5'X4' RCB FL=13.45 12" PVC=FL=18.00 IN= TO=20.00 FL=MATCH EXIST.
KEEP-OFF-PAVEMENT MARKING (RIGHT-OF-WAY MARKING)
7TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
10'~10" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=14.00
10" STM FL= 17.80 (RE:MEP FOR CONT.)
10" STM. FL=20.89 (RE:MEP FOR CONT.)
10" STM. FL=20.89 (RE:MEP FOR CONT.)
6'~ 24" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=15.00
6'~ 12" HDPE CONNECT TO EXIST. 5'X4' BOX CULVERT FL=15.00
4" PVC
8" STM. FL=18.06 (RE:MEP FOR CONT.)
CONNECT TO EXIST. STM. SWR. FL (S)=15.00
18'~ 24" HDPE @ 0.25%
7'~6" HDPE @ 1.00%
FL=19.25
FL=19.10
70'~6" HDPE @ 1.00%
50'~6" HDPE @ 1.00%
FL=18.90
48'~18" HDPE @ 0.50%
40'~12" HDPE @ 0.50%
6'~8" HDPE CONNECT TO EXIST. BOX CULVERT FL=15.00
42'~12" HDPE @ 0.50%
CONNECT TO EXIST. BOX CULVERT FL=13.63
EXIST. STM. MH TR=MATCH PROP. TP FL EXIST 18" PVC (N)=16.10 FL 12" HDPE (S)=18.00
PROP. STM MH-2 TR=MATCH TP 24" HDPE (N) FL=15.05 18" HDPE (E) FL=18.60 12" HDPE (S) FL=19.25
FL=19.45
10" STM. FL=20.72 (RE:MEP FOR CONT.)
FL=19.95
6" STM. FL=20.47 (RE:MEP FOR CONT.)
FL=18.20
8" STM. FL=18.47 (RE:MEP FOR CONT.)
6" STM. FL=18.64 (RE:MEP FOR CONT.)
45'~ 30" HDPE
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%
PROP. ATHLETICS BUILDING FF=25.72
CONNECT TO EXIST. 12" PVC FL=20.10 (CONTRACTOR TO FIELD VERIFY)
PROP. STM MH-1 TR=MATCH PROP. TP FL 12" HDPE (E&N)=20.00
110'~12" STM @ 0.50%
8" STM. FL=21.06 (RE:MEP FOR CONT.)
FL=22.85
FL=23.00
FL=20.00
45'~ 12" HDPE @ 0.25%
FL=21.00
FL=21.60
FL=22.25
44'~12" HDPE @ 0.50%
56'~6" HDPE @ 1.00%
56'~6" HDPE @ 1.00%
56'~6" HDPE @ 1.00%
40'~ 12" HDPE @ 0.50%
FL=20.40
FL=20.85
12'~ 6" HDPE @ 1.00%
25'~ 6" HDPE @ 1.00%
25'~ 12" PVC @ 0.25% MIN.
PROP. SLOTTED DRAIN (ACO SYSTEM 5000 OR APPROVED EQUAL)
FL=18.20
CONNECT TO EXIST. BOX CULVERT FL=13.63
6TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
5/8" I.R. FND W/CAP "WEST BELT SURVEYING INC."
30' U.E. F.C. NO. 699254, H.C.M.R.
5' GAS LINE R.O.W. VOL. 3913, PG. 504, H.C.D.R.
5' GAS LINE R.O.W. VOL. 1290, PG. 340, H.C.D.R.
EXISTING CMU BUILDING
EXIST. F.H.
EXIST. 6" W.M.
EXIST. 8" W.M.
EXIST. 12" W.M.
EXIST. 16" W.M.
EXIST. 8" SAN. SEWER
EXIST. 12" SAN. SEWER
EXIST. 18" SAN. SEWER
EXIST. 24" SAN. SEWER
EXIST. 30" SAN. SEWER
EXIST. 36" SAN. SEWER
EXIST. 48" RCP
EXIST. 54" SAN. SEWER
EXIST. 60" SAN. SEWER
EXIST. 66" SAN. SEWER
EXIST. 72" SAN. SEWER
EXIST. 84" SAN. SEWER
EXIST. 96" SAN. SEWER
EXIST. 108" SAN. SEWER
EXIST. 120" SAN. SEWER
EXIST. 132" SAN. SEWER
EXIST. 144" SAN. SEWER
EXIST. 156" SAN. SEWER
EXIST. 168" SAN. SEWER
EXIST. 180" SAN. SEWER
EXIST.


NORTH
15
30
30
0
60
LADY OF FATIMA CHURCH
PROP. MULTIPURPOSE BUILDING
FF=25.72
PROP. ATHLETICS
BUILDING
FF=25.72
PROP. SWALE
FL 22.90
TC 23.30
EG ±23.50
TC 23.10
TP 25.65
TP 25.72
TP 22.60
TP 22.70
TP 21.80
TC 21.40
TP 20.90
TC 21.75
TP 21.25
TC 21.35
TP 21.00
TC 21.15
TP 21.00
TC 20.00
TP 20.80
TP 20.30
TC 21.15
TP 20.65
TC 22.00
TP 21.50
TC 22.00
TP 21.50
TC 25.10
TP 25.72
TP 25.65
TP 25.20
TP 25.10
TP 24.40
TP 24.10
TP 23.45
TP 22.85
FG 22.40±
RE: LANDSCAPE FOR PROP. GRADING FOR PASEO
MEP
EXISTING ISC BUILDING
FF=25.72
8TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.
UNIVERSAL CITY ADDITION
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.
KEENE STREET
(RIGHT-OF-WAY VARIES)
RAILROAD
RAIL LINE
MATCH EXIST. CURB
RUBBER TRACK SURFACE
CONCRETE
ASPHALT
GRASS
BRICK WALL
METAL DECK
GENERATOR
TRANSFORMER
GUARD RAIL
JUNCTION BOX
SPEED BUMP
RAMP
STAIRS
SIDEWALK
EXIST. F.H.
EXIST. 1" WATER
EXIST. 6" WATER
EXIST. 8" WATER
EXIST. 12" WATER
EXIST. 16" WATER
EXIST. 6" GAS
EXIST. 8" GAS
EXIST. 12" GAS
EXIST. 12" CLAY
EXIST. SAN. SWR. MH
EXIST. STM. SWR. MH
EXIST. 6" FIBER OPTIC
EXIST. 8" FIBER OPTIC
EXIST. 12" FIBER OPTIC
EXIST. 6" ELEC.
EXIST. 8" ELEC.
EXIST. 12" ELEC.
EXIST. 6" TELE.
EXIST. 8" TELE.
EXIST. 12" TELE.
EXIST. 6" GAS LINE R.O.W. VOL. 1040, PG. 340, H.C.D.R.
5' GAS LINE R.O.W. VOL. 3913, PG. 504, H.C.D.R.
30' U.E. F.C. NO. 699254, H.C.M.R.
5/8" I.R. FND W/CAP "WEST BELT SURVEYING INC."
SAN. SWR. MH TR=24.58 FL 8" PVC (S) 23.83 FL 8" PVC (W) 23.83 FL 8" PVC (N) 23.70
STM. SWR. MH TR=23.05 FL 36" RCP (S) 15.69 FL 24" RCP (W) 17.57 FL 24" RCP (E) 17.54
STM. SWR. MH TR=23.57 FL 36" RCP (S) 15.72 FL 36" RCP (E) 15.45 FL 24" RCP (N) 16.81
SAN. SWR. MH TR=24.48 FL 8" PVC (S) 19.46 FL 8" PVC (E) 19.47
SAN. SWR. MH TR=24.04 FL 8" PVC (W) 19.64 FL 8" PVC (E) 19.83 FL 8" PVC (E) 19.78
SAN. SWR. MH TR=24.11 FL 8" PVC (S) 14.79 FL 8" PVC (E) 15.60
SAN. SWR. MH TR=23.36 FL 12" PVC (N) 13.44 FL 12" PVC (W) 13.57
SAN. SWR. MH TR=23.59 8" PVC (W) 13.11 * PVC (SE) 12.85
SAN. SWR. MH TR=23.65 18" PVC (NW) 13.06 L 18" PVC (S) 12.93
STM. SWR. MH TR=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 TR=24.41 FL 15" PVC (W) 12.62 FL 8" PVC (N) 12.52
STM. SWR. MH TR=23.52 FL 24" RCP (S) 15.09 FL 18" RCP (W) 16.57
SAN. SWR. MH TR=24.00 FL 12" RCP (S) 21.22 FL 18" RCP (N) 16.81 (BOTTOM 16.551)
SAN. SWR. MH TR=24.09 FL 18" RCP (N) 15.24 FL 18" RCP (SE) 20.07 FL 12" RCP (S) 19.89
SAN. SWR. MH TR=24.02 FL 12" RCP (N) 24.00 FL 12" RCP (S) 21.01
SAN. SWR. MH TR=24.12 FL 12" RCP (N) 21.49
SAN. SWR. MH TR=24.11 FL 12" RCP (S) 21.73 FL 12" RCP (N) 21.66
SAN. SWR. MH TR=23.59 FL 48" RCP (N) 15.64 FL 48" RCP (W) 15.61
GRATE INLET TG=24.29 FL 18" HDP (S) 19.67 FL 18" HDP (NW) 19.66
GRATE INLET TG=24.50 FL 18" HDP (S) 18.09 FL 18" HDP (N) 18.12
GRATE INLET TG=24.41 FL 18" HDP (S) 15.09 FL 18" HDP (W) 16.57
GRATE INLET TG=24.00 FL 18" HDP (N) 15.24 FL 18" HDP (SE) 20.07 FL 12" HDP (S) 19.89
GRATE INLET TG=24.09 FL 12" HDP (S) 24.00 FL 12" HDP (S) 21.01
GRATE INLET TG=24.12 FL 12" HDP (N) 21.49
GRATE INLET TG=24.11 FL 12" HDP (S) 21.73 FL 12" HDP (N) 21.66
GRATE INLET TG=24.17 FL 12" HDP (S) 19.68 FL 12" HDP (N) 20.90 FL 18" HDP (E) 20.28
GRATE INLET TG=24.29 FL 12" HDP (S) 21.01 FL 12" HDP (W) 20.97
GRATE INLET TG=23.71 FL 18" HDP (S) 19.67 FL 18" HDP (NW) 19.66
GRATE INLET TG=24.50 FL 18" HDP (S) 18.09 FL 18" HDP (NW) 18.12
GRATE INLET TG=24.41 FL 18" HDP (S) 15.09 FL 18" HDP (N) 16.57
GRATE INLET TG=24.00 FL 12" HDP (S) 21.22 FL 18" HDP (N) 16.81 (BOTTOM 16.551)
GRATE INLET TG=24.09 FL 18" HDP (N) 15.24 FL 18" HDP (SE) 20.07 FL 12" HDP (S) 19.89
GRATE INLET TG=24.02 FL 12" HDP (N



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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

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
12/18/2025

ENGINEERS
F-18326

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

DRAWING HISTORY

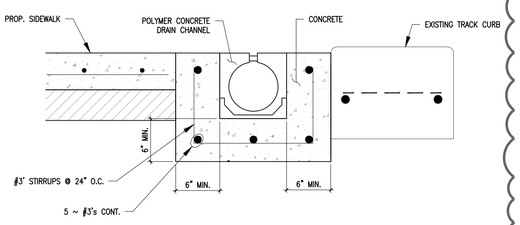
No.	Description	Date
2	ADDENDUM 3	12/18/2025

CHECKED BY: RKR

DRAWN BY: JW

PAVING PLAN

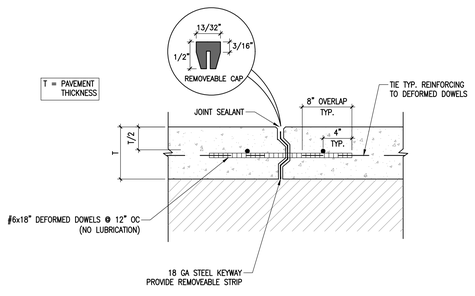
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DETAILS NOTES:

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.

12 | ACO 3000 SLOTTED DRAIN

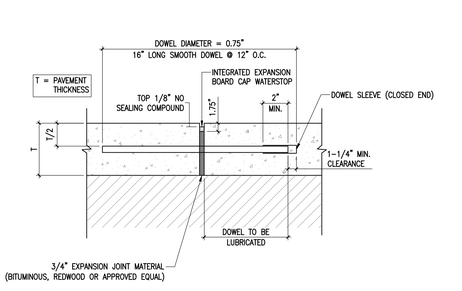


NOTE:

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.

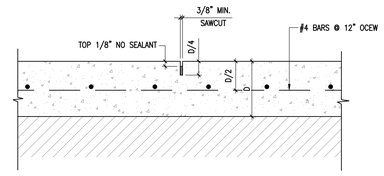
11 | MOUNTABLE CURB



NOTE:

1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

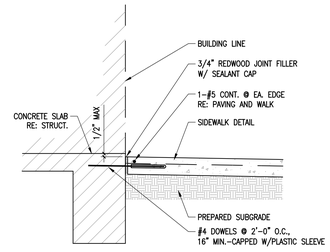
10 | EXIST. TO PROP. CONCRETE PAVEMENT



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.

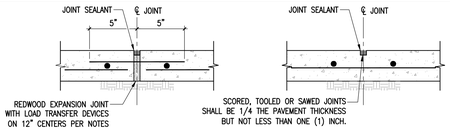
9 | ACCESSIBLE CURB RAMP



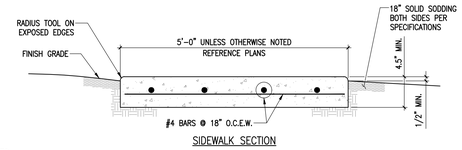
NOTE:

APPLICABLE AT DOOR CONDITIONS ONLY.

8 | LONGITUDINAL TIED JOINT (LT)



EXPANSION JOINT CONTRACTION JOINT

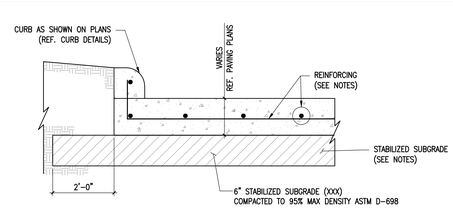


SIDEWALK SECTION

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.

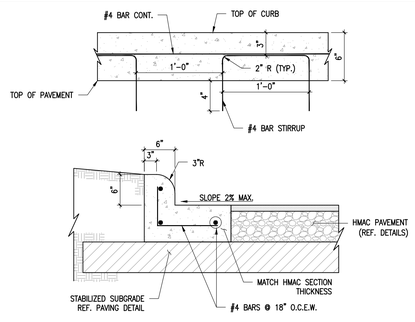
7 | EXPANSION JOINT (X)



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.

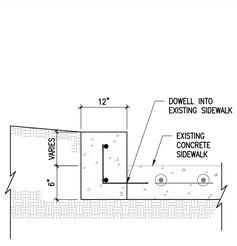
6 | SAWCUT JOINT (S)



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:

1. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
2. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
3. 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.
4. PLACE 1/4" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

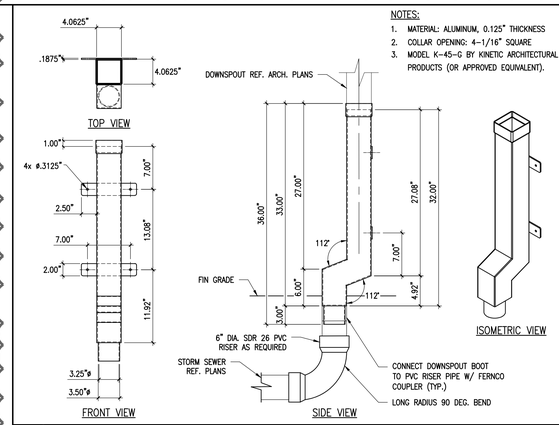
4 | CONCRETE SIDEWALK

3 | CONCRETE PAVEMENT

2 | CONCRETE CURB AND GUTTER

1 | CONCRETE CURB AT EXISTING SIDEWALK

15 | DOWNSPOUT BOOT

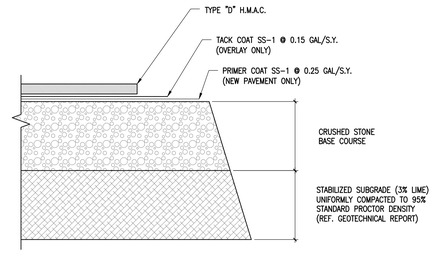


NOTES:

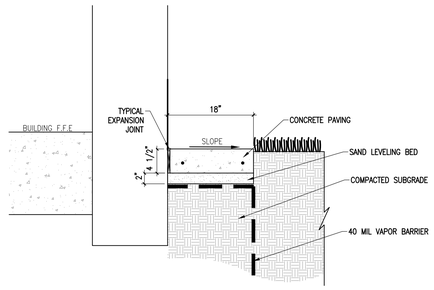
1. MATERIAL: ALUMINUM, 0.125" THICKNESS
2. COLLAR OPENING: 4-1/16" SQUARE
3. MODEL K-45-G BY KINETIC ARCHITECTURAL PRODUCTS (OR APPROVED EQUIVALENT).

14 | ASPHALT SECTION

	LIGHT DUTY	MEDIUM DUTY	HEAVY DUTY
TYPE "D" H.M.A.C.	2"	2.5"	3"
STONE BASE	8"	8"	10"
LIME TREATED SUBGRADE	6"	8"	10"

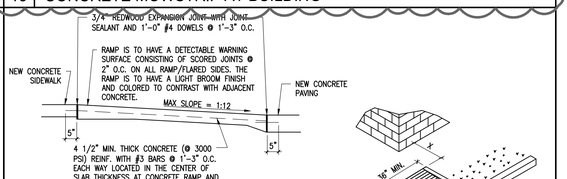


13 | CONCRETE MOWSTRIP AT BUILDING

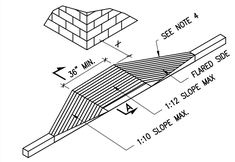


3/4" REDWOOD EXPANSION JOINT WITH JOINT SEALANT AND 1'-0" #4 DOWELS @ 1'-3" O.C.

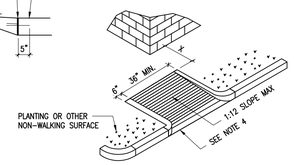
RAMP IS TO HAVE A DETECTABLE WARNING SURFACE CONSISTING OF SCORED JOINTS @ 2" O.C. ON ALL RAMP/FLARED SIDES. THE RAMP IS TO HAVE A LIGHT BROOM FINISH AND COLORED TO CONTRAST WITH ADJACENT CONCRETE.



SECTION A–A



FLARED CURB RAMP



RETURNED CURB RAMP

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.

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

ISSUE FOR PROPOSAL

1000 Keene St.
Galena Park, TX 77547

Galena Park ISD

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
12/18/2025

ENGINEERS F-18326

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/18/2025

CHECKED BY:RKR

DRAWN BY: JW

DETAILS

C 601

B:\24\240539 - GPHS MP\FOCUS\Building Addition Phase 3B\Dwgs\C 601 DETAILS.dwg Last Saved: JWHATLEY
Thursday, December 18, 2025 10:55:33 AM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

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. 5'(FT)X5'(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)

02

KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARK	DETAIL
A1.1	SOLID HEX GREEN ISLES PLANTER MODULE	STEEL	STREETLIFE	67"(IN)X76"(IN)X27"(IN)	RAL 1018 ZINKGELB	POWDERCOATED	-CONTACT JANET CHEN @ 484.544.3132	02 L3.02
A1.2	SOLID HEX GREEN ISLES PLANTER $\frac{1}{2}$ MODULE	STEEL	STREETLIFE	67"(IN)X76"(IN)X35"(IN)	RAL 7012 BASALTGRAU	POWDERCOATED	-CONTACT JANET CHEN @ 484.544.3132	02 L3.02
A1.3	SOLID HEX GREEN ISLES PODIUM MODULE	STEEL/WOOD	STREETLIFE	67"(IN)X76"(IN)X19"(IN)	RAL 1018 ZINKGELB	POWDERCOATED	-CONTACT JANET CHEN @ 484.544.3132	05 L3.02
A1.4	SOLID HEX GREEN ISLES PODIUM MODULE: SURFACE MOUNTED	STEEL/WOOD	STREETLIFE	67"(IN)X76"(IN)X19"(IN)	RAL 7047 TELEGRAU 4	POWDERCOATED	-CONTACT JANET CHEN @ 484.544.3132	05 L3.02
A1.5	SOLID HEX GREEN ISLES $\frac{1}{2}$ PODIUM MODULE: SURFACE MOUNTED	STEEL/WOOD	STREETLIFE	67"(IN)X76"(IN)X19"(IN)	RAL 7012 BASALTGRAU	POWDERCOATED	-CONTACT JANET CHEN @ 484.544.3132	04 L3.01
A2	TREE GRATE: HEXAGON	IRON	URBAN ACCESSORIES	6'	-	RAW	-CONTACT JAMES 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

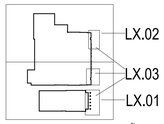
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL





KEY PLAN
NORTH: PLAN TRUE



12/05/2025

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

DRAWING HISTORY

No.	Description	Date
02	ADDENDUM 03	12/18/2025

CHECKED BY: AT

DRAWN BY: AT

MATERIALS NOTES AND SCHEDULE

L2.00

File Path: U:\Edgeland\P_Project Drive\TEXAS\25_TX-Galena Park HS-240539\04 Construction Documents

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

0"

1"

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

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 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- 3/4" DIAMETER OUTLET
   - 9.10. VALVE BOXES: RAIN BIRD VB SERIES 12x18 MIN. FOR 1-1/2" 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

02

	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
	LF	LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE	5 GALLON	42" O.C.	ENSURE WELL DRAINED SOIL
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
	SM	SABAL MINOR	DWARF PALMETTO	10 GALLON	60" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	YR	YUCCA RECURVIFOLIA	SOFT LEAF YUCCA	5 GALLON	24" O.C.	FULL PLANTS, ROOTED TO CONTAINER
CACTUS/SUCCULENTS						
	AA	AGAVE AMERICANA	CENTURY PLANT	15 GALLON		FULL PLANTS, ROOTED TO CONTAINER
	AO	AGAVE OVATIFOLIA	WHALES TONGUE AGAVE	15 GALLON		FULL PLANTS, ROOTED TO CONTAINER
	OE	OPUNTIA ELLISIANA	THORNLESS PRICKLY PEAR	5 GALLON	30" 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	3/4"	6'MIN	3'-4'
15 GALLON	1"	8'-10'	4'-5'
30 GALLON	1-1/2" TO 2"	12'-14'	4'-5'
45 GALLON	2" TO 3"	14'-16'	5'-7'
65 GALLON	3" TO 3-1/2"	16'-18'	6'-8'
100 GALLON	3-1/2" 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"	

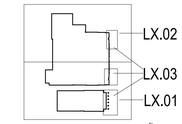
PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL





KEY PLAN

NORTH: PLAN TRUE



12/05/2025

CLIENT
Galena Park ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

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CHECKED BY: AT

DRAWN BY: AT

PLANTING NOTES AND SCHEDULE

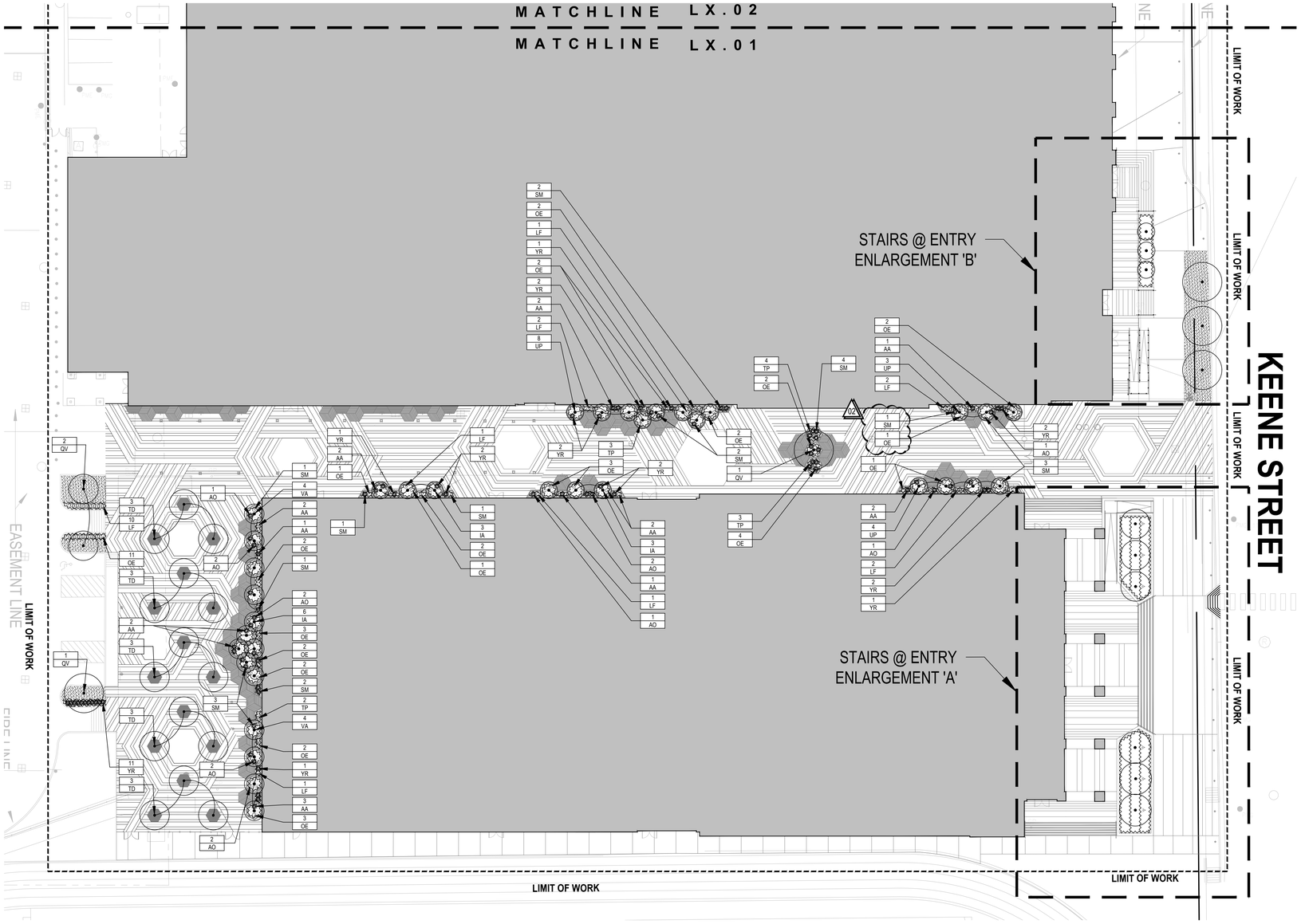
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Plot Stamp:
12/3/2025 8:00:46 PM

0"
1"

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'

PBK

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HOUSTON, TX
713-965-0008

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

LX.02
LX.03
LX.01

KEY PLAN
NORTH: PLAN TRUE

12/05/2025

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

DRAWING HISTORY

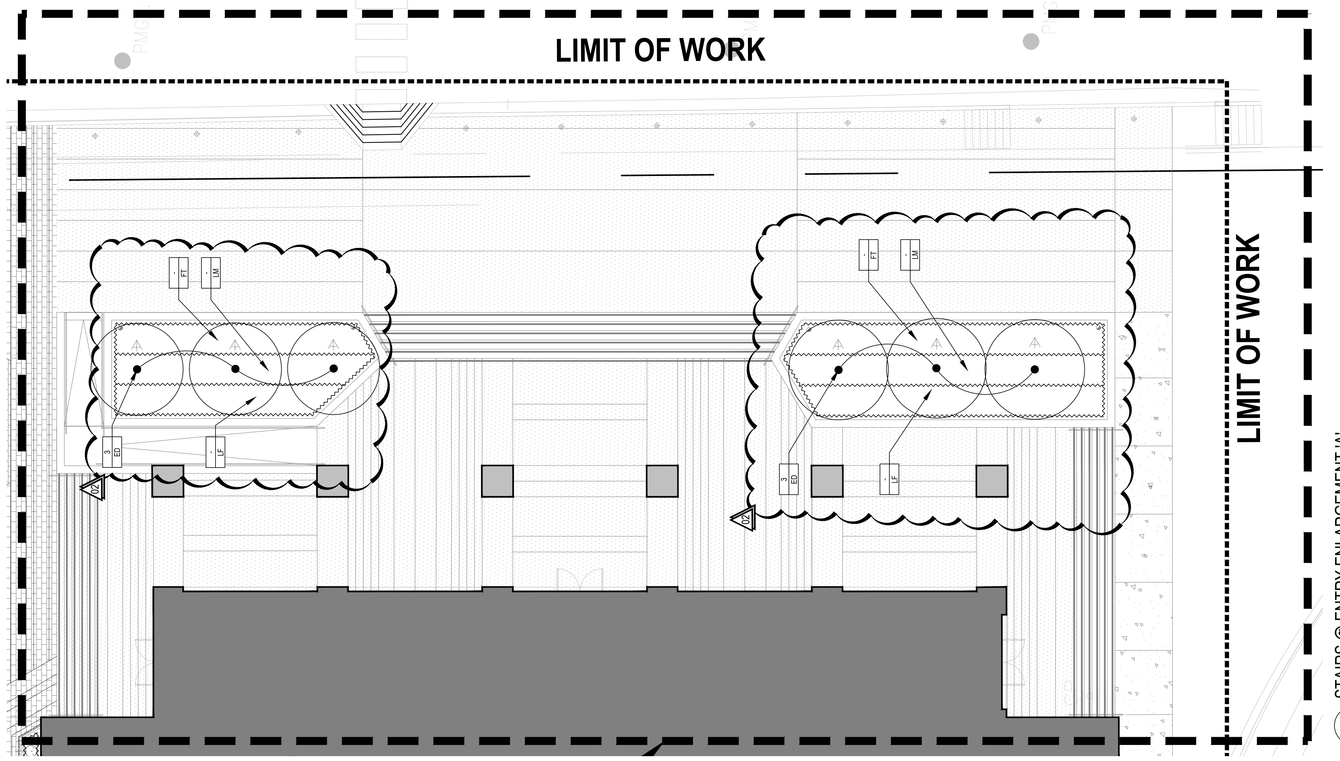
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02	ADDENDUM 03	12/18/2025

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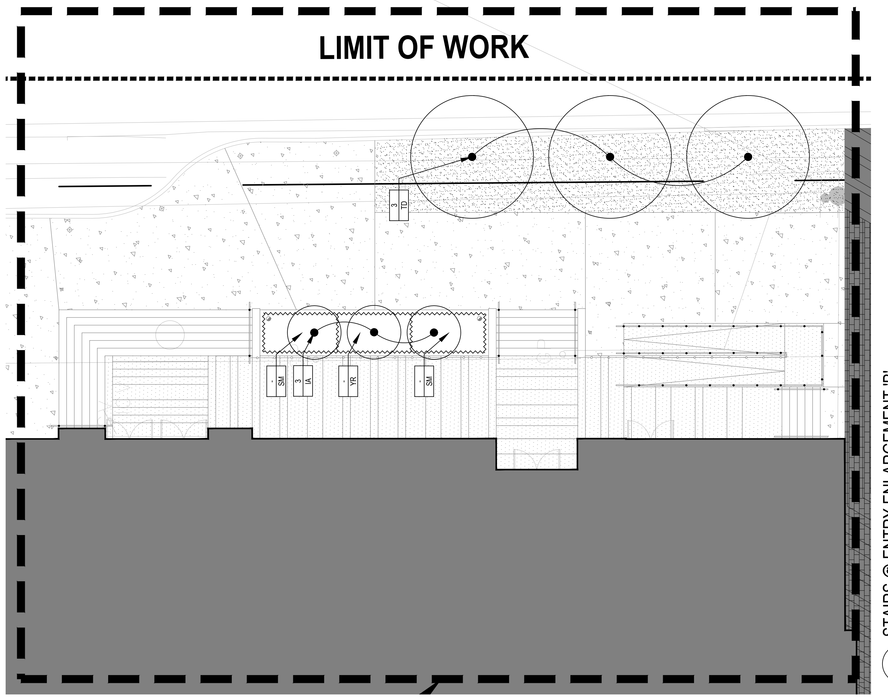
PLANTING PLAN

L4.01

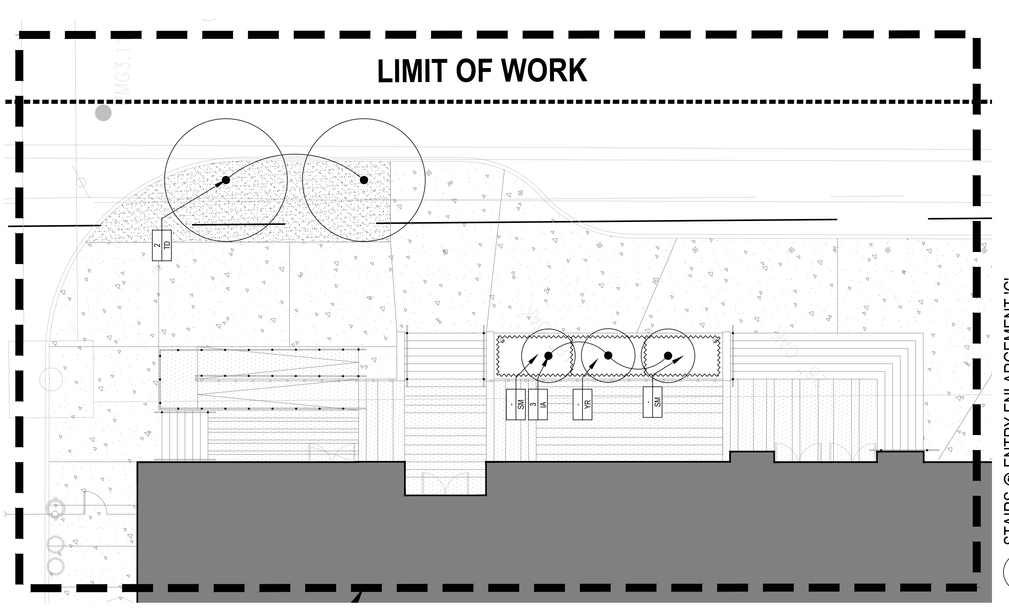
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Plot Stamp:
12/17/2025 4:32:15 PM



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



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



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

0" 1"

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

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

File Path: U:\Edgebland\Project Drive\TEXAS\25_TX-Galena Park HS-240359\4 Construction Documents
Plot Stamp: 12/3/2025 8:00:46 PM

PLANTING PLAN ENLARGEMENTS

L4.03

CLIENT: Galena Park ISD
PROJECT NUMBER: 240359
DATE: December 5, 2025
DRAWING HISTORY

No.	Description	Date
02	ADDENDUM 03	12/19/2025

CHECKED BY: AT
DRAWN BY: AT

12/05/2025

REGISTERED LANDSCAPE ARCHITECT JACOB T. GALLEGOS STATE OF TEXAS

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

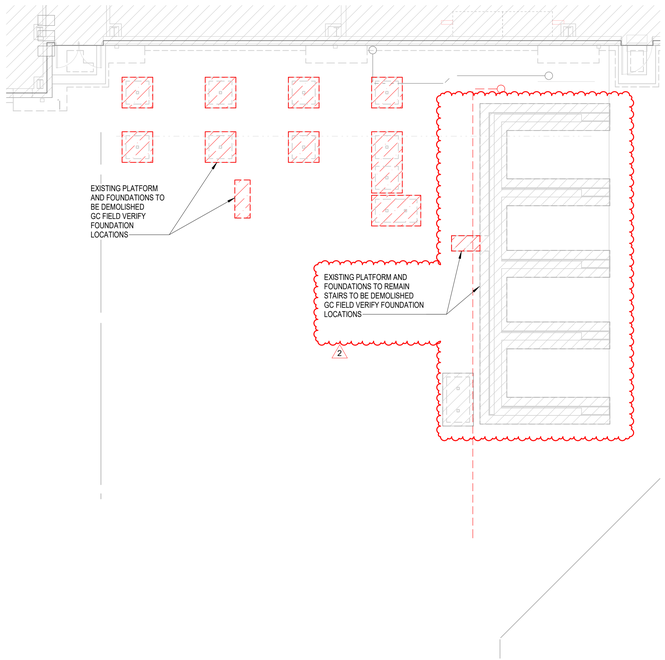
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1000 Keene St.
Galena Park, TX 77547

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HOUSTON, TX 713-865-0606
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0"
1"

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



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 PLASTER 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 ACCOMPANYNG 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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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
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

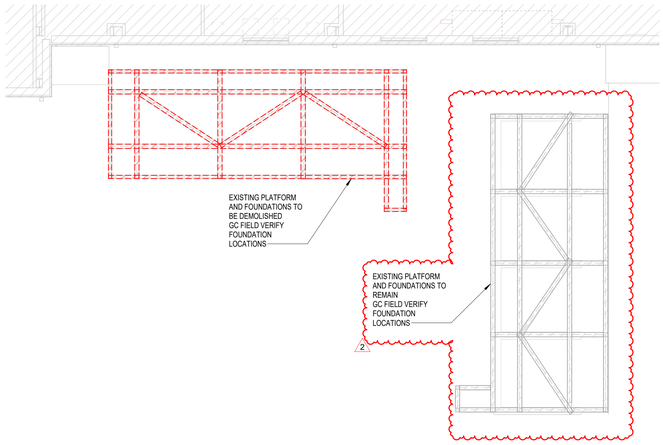
FOUNDATION DEMO PLAN - EXISTING MECH YARD

SD-101M

Plot Stamp:
12/18/2025 5:41:24 PM

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.
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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KEY PLAN
NORTH: PLAN TRUE



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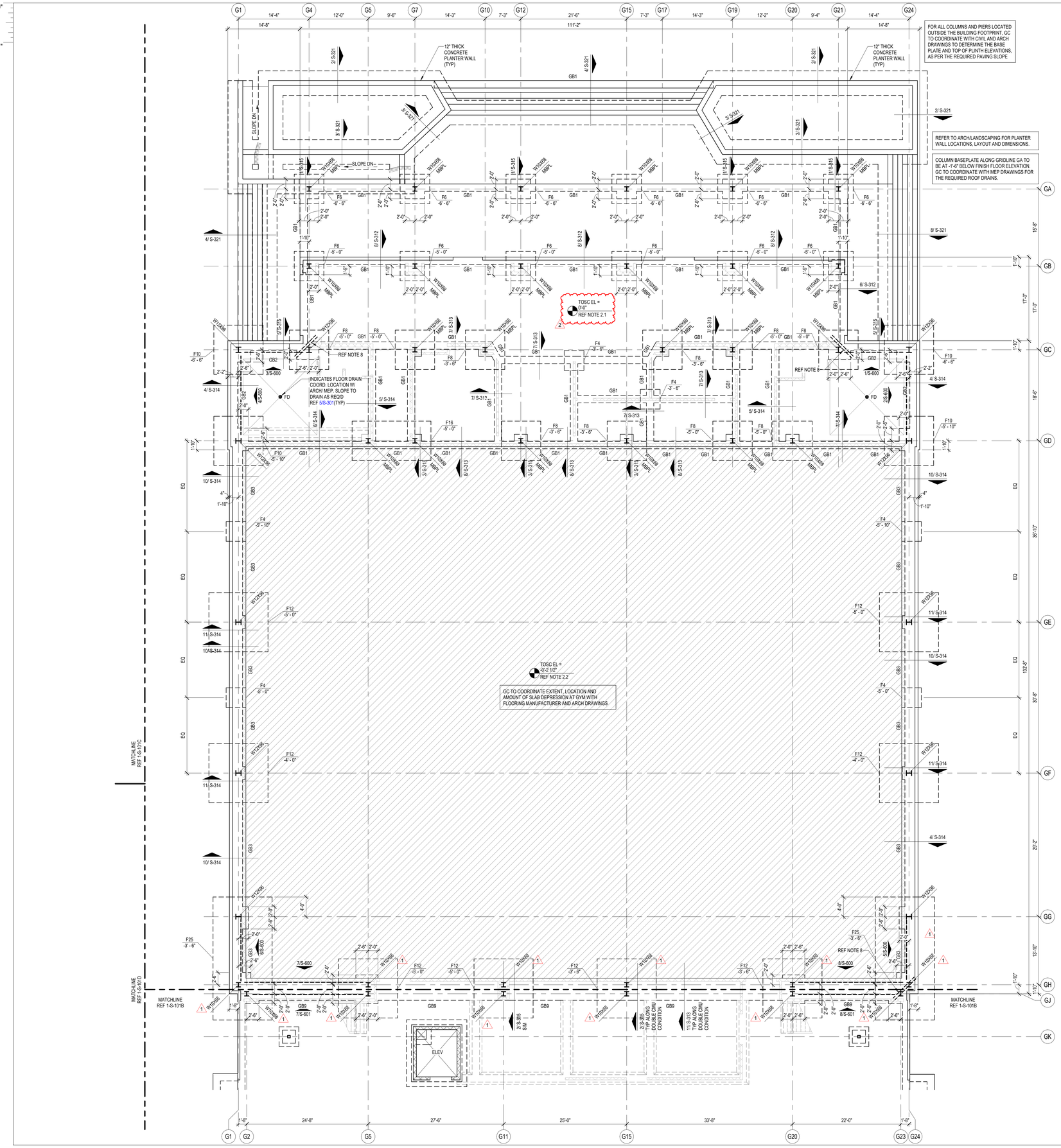
SECOND FLOOR DEMO PLAN - EXISTING MECH YARD

SD-102M

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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.

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 A
1/8" = 1'-0"

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ISSUE FOR PROPOSAL

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A

KEY PLAN
NORTH: PLAN TRUE

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1	ADDENDUM 01	12/10/2025
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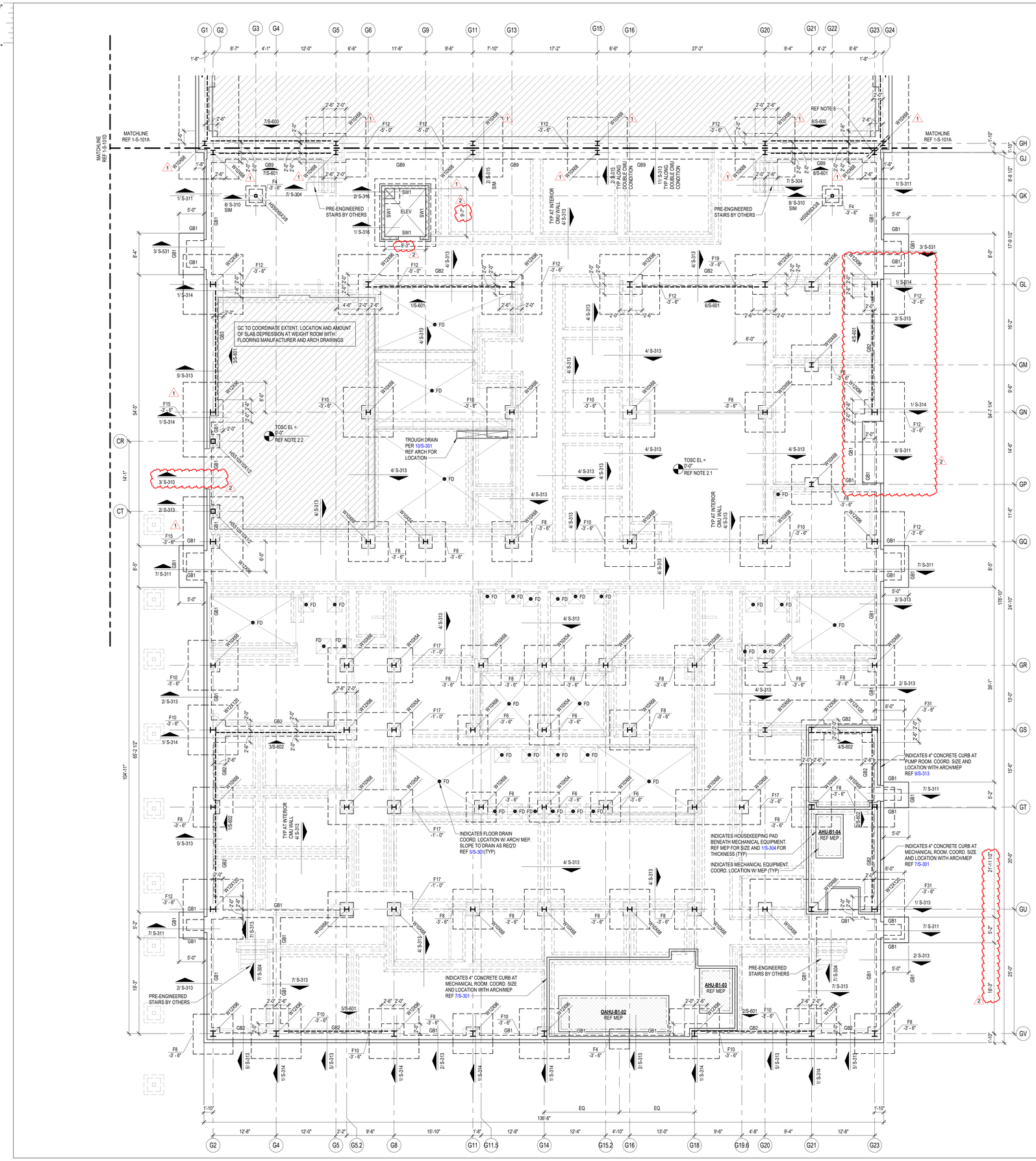
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FOUNDATION PLAN - AREA A

S-101A

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



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.

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

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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.
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   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.

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

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

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TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

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www.kubalaengineers.com
713-465-1447
TX REG NO. F-23612

B

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

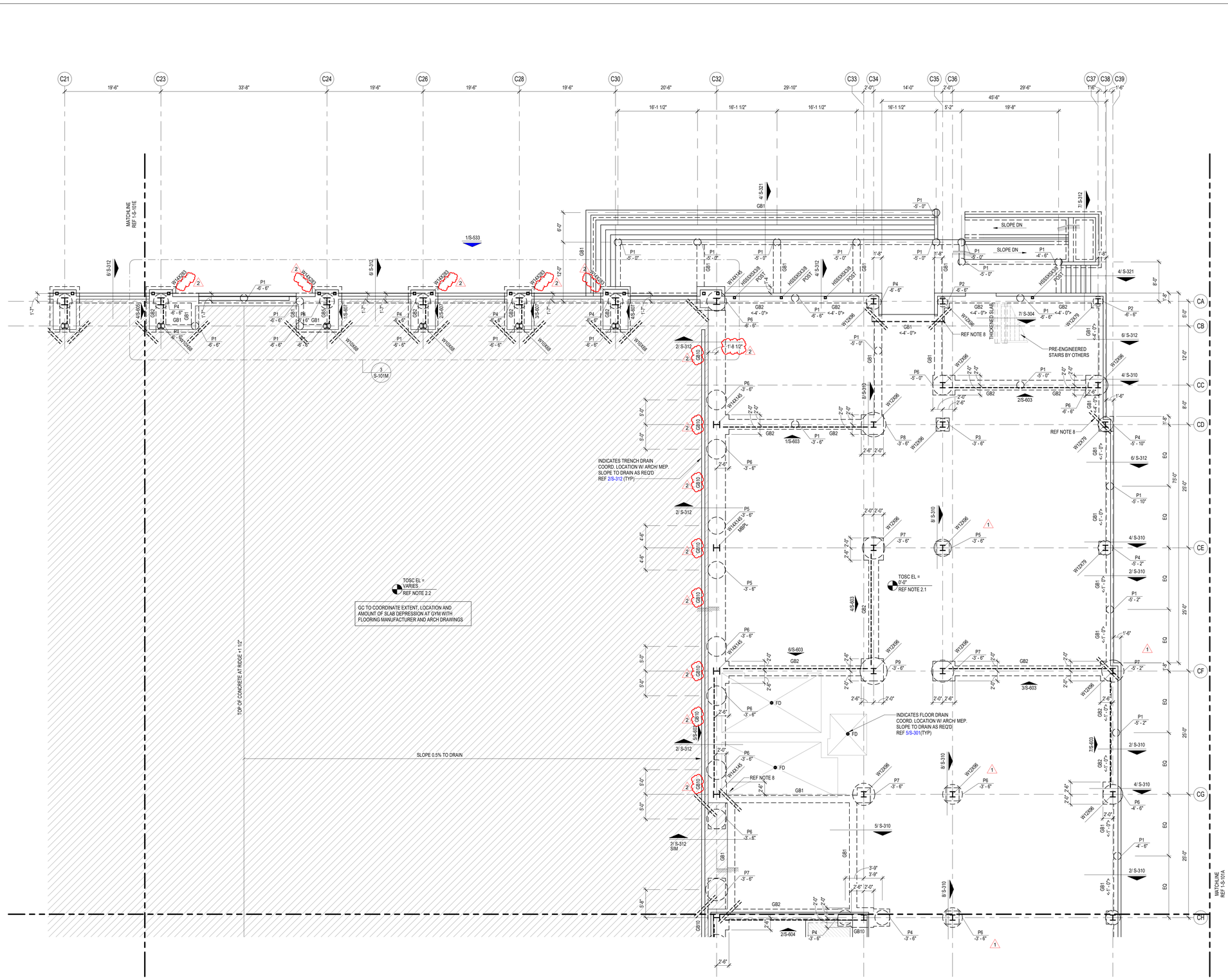
FOUNDATION PLAN - AREA B

S-101B

Plot Stamp:
12/18/2025 5:32:14 PM

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

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.

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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.
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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.

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1/8" = 1'-0"

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Galena Park ISD
EXCELLENCE IN EVERY DETAIL

C

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
1	ADDENDUM 01	12/10/2025
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CHECKED BY: SI
DRAWN BY: CML

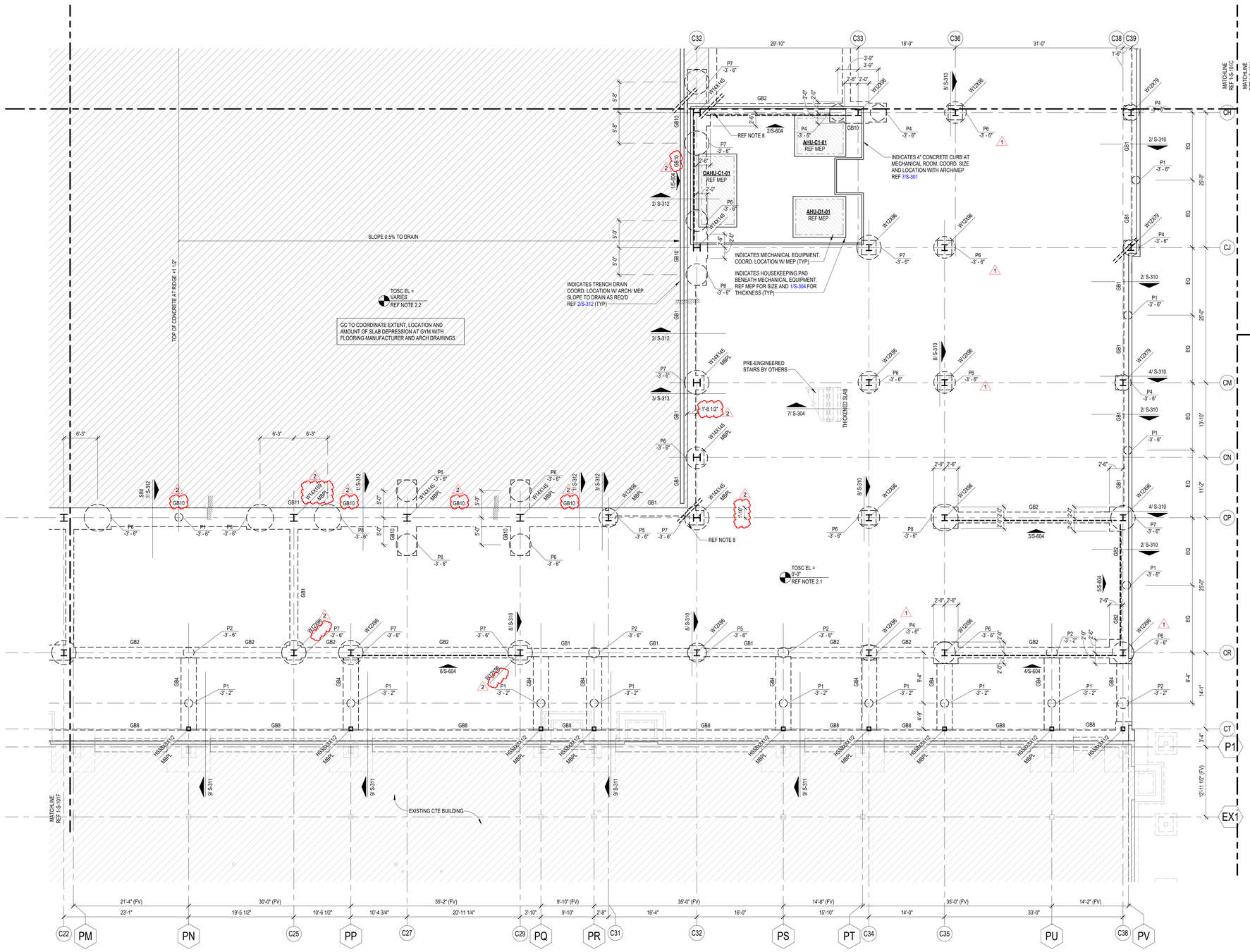
FOUNDATION PLAN - AREA C

S-101C

Plot Stamp:
12/18/2025 5:32:17 PM

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

0"
1"



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

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Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
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F-23612

CLIENT	
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CHECKED BY: SI
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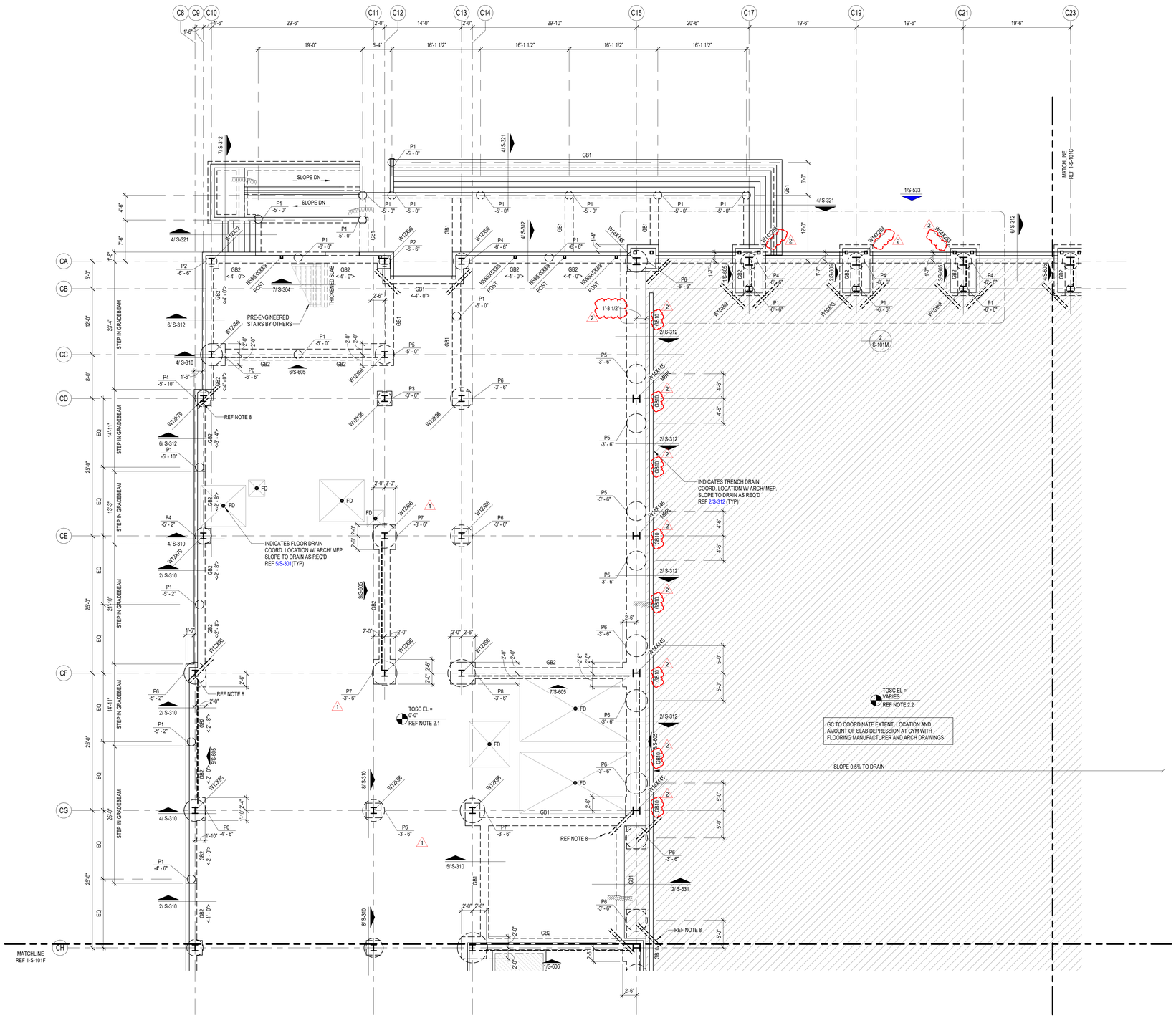
FOUNDATION PLAN - AREA D

S-101D

Plot Stamp:
12/18/2025 5:32:20 PM

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

0"
1"



FOUNDATION PLAN NOTES

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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.

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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 E
1/8" = 1'-0"

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EXCELLENCE IN EDUCATION

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

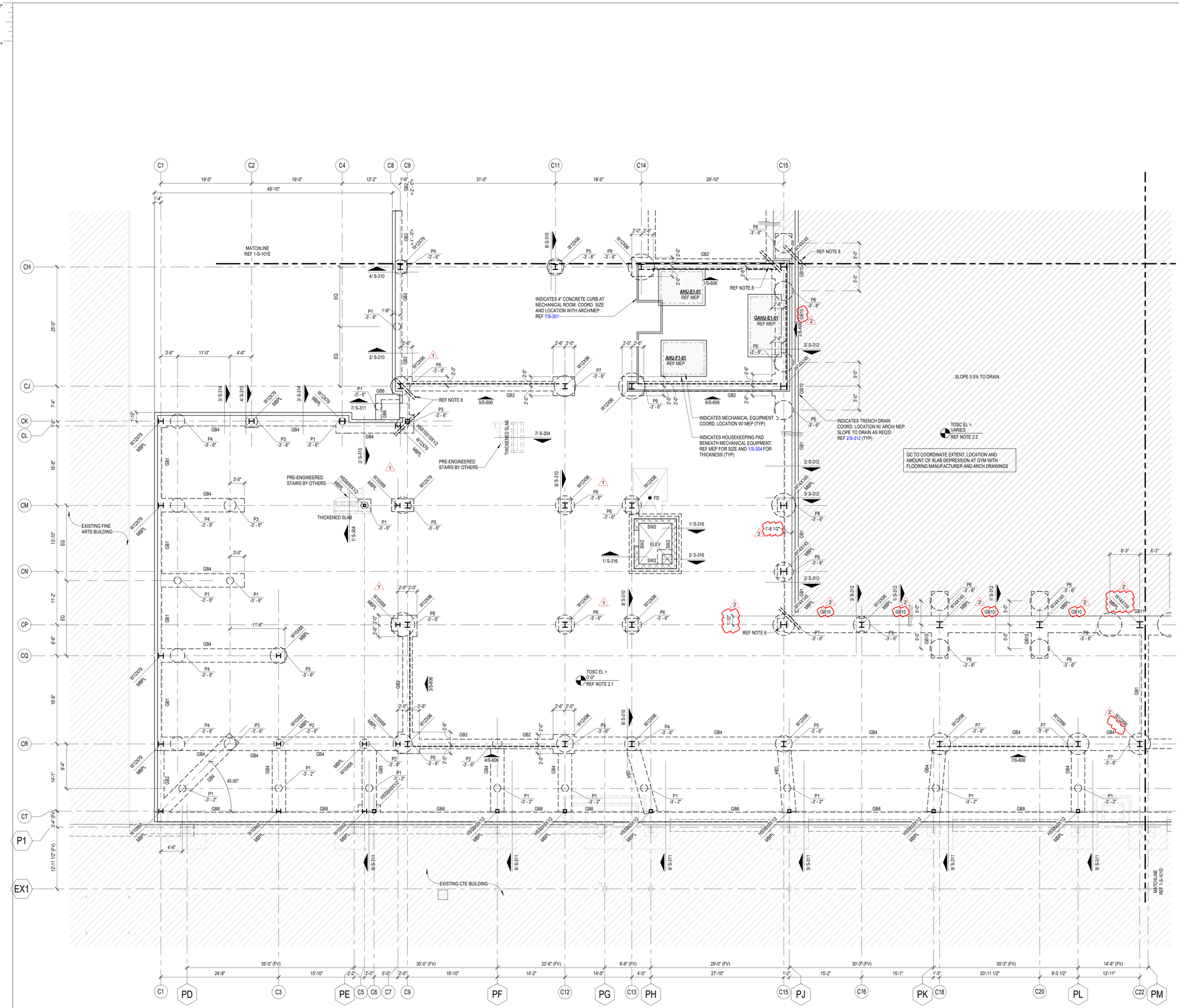
FOUNDATION PLAN - AREA E

S-101E

Plot Stamp:
12/18/2025 5:32:23 PM

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

0"
1"



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

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.

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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.

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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
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CLIENT	
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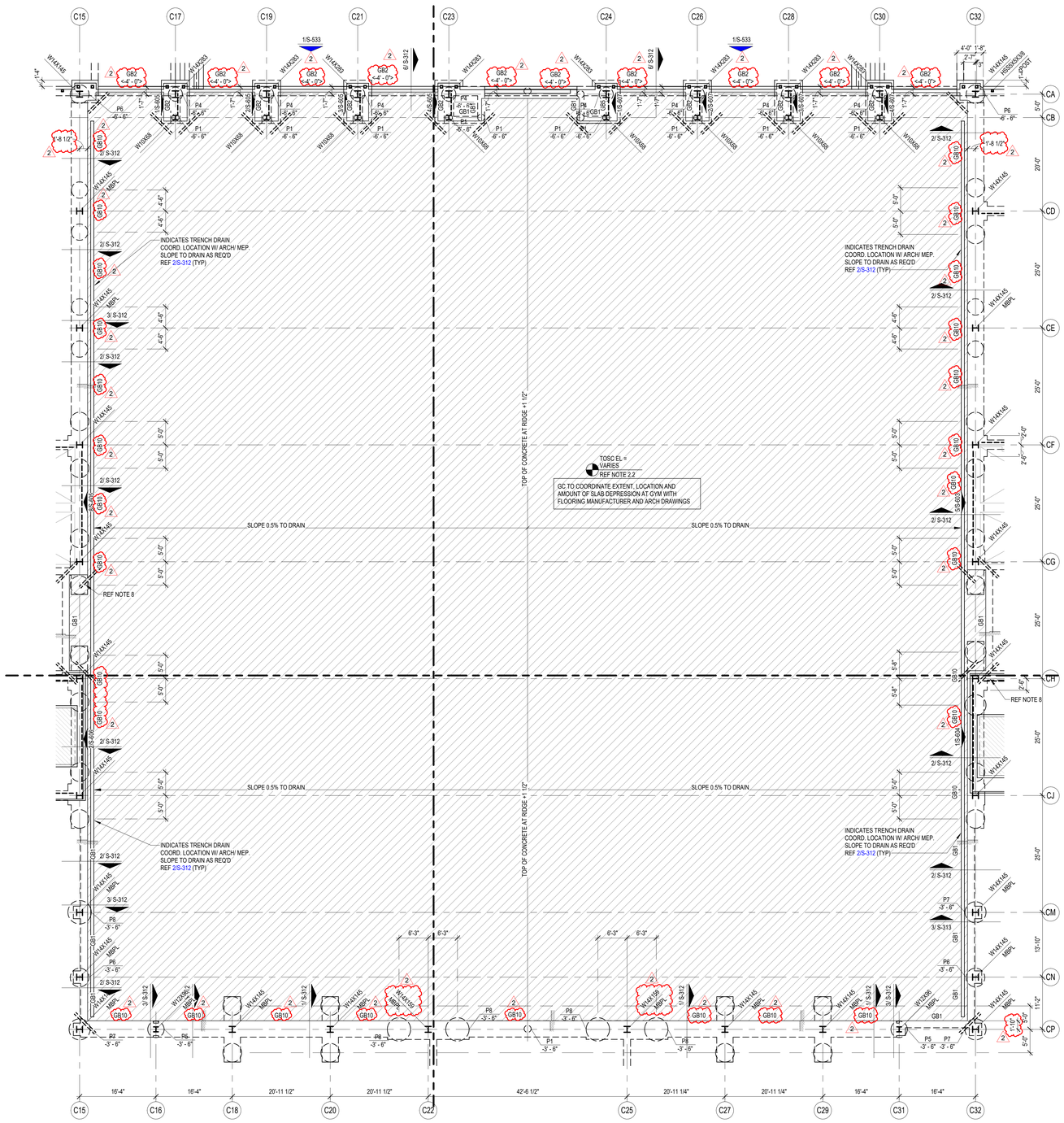
FOUNDATION PLAN - AREA F

S-101F

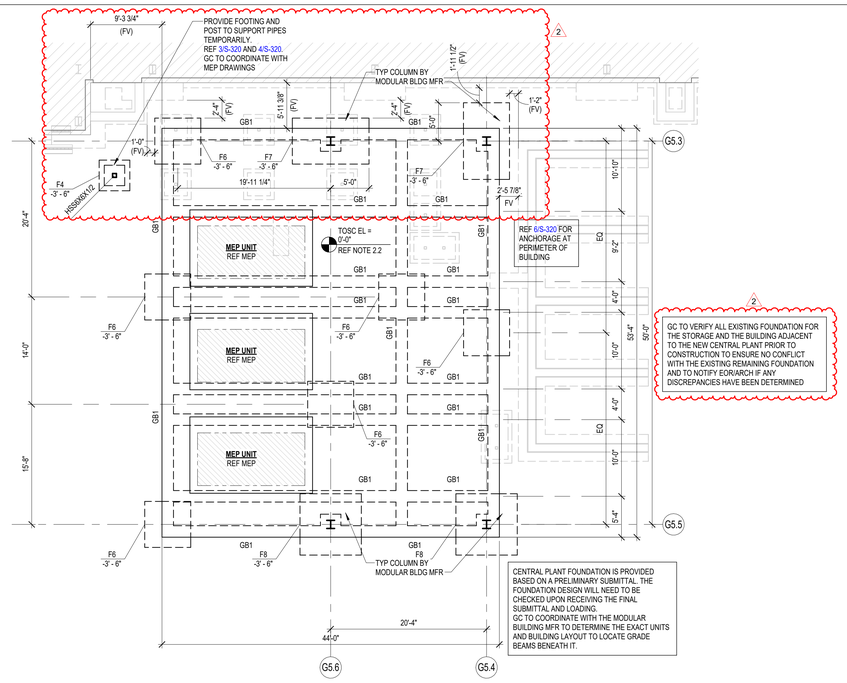
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FOUNDATION PLAN - AREA G
S-101G
FOR BLUEBEAM LABELINGDOOR:

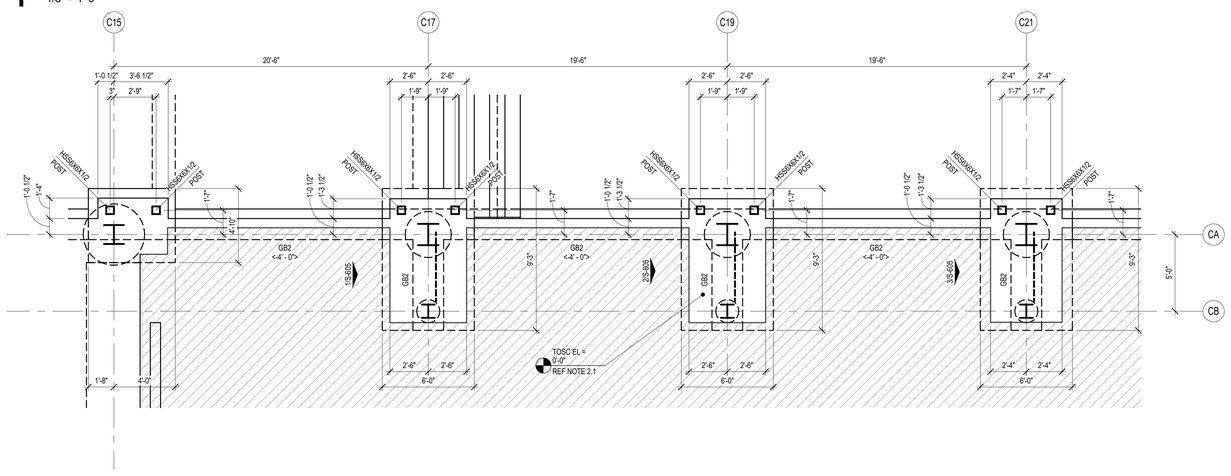
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1"



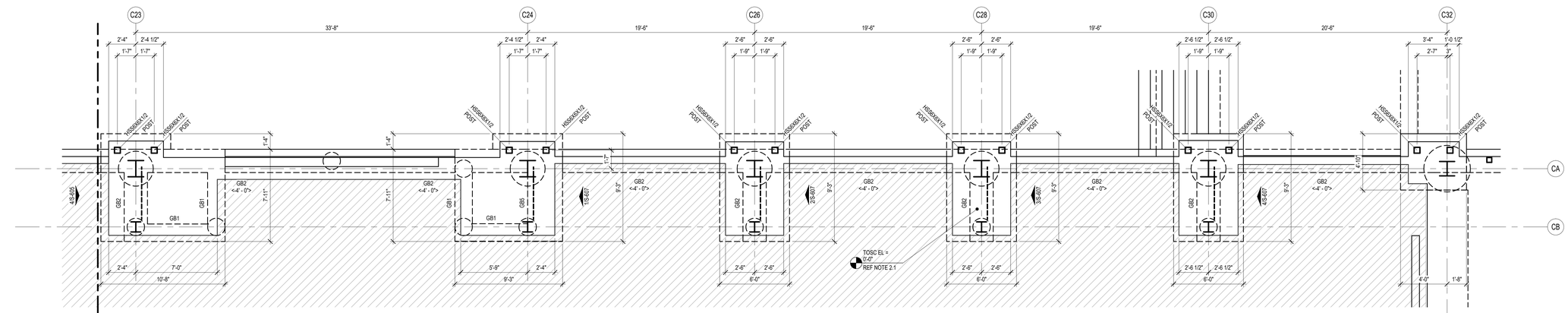
FOUNDATION PLAN - MISC
S-101M
FOR BLUEBEAM LABELINGDOOR:



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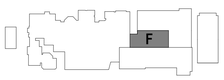
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN = TRUE



CLIENT	
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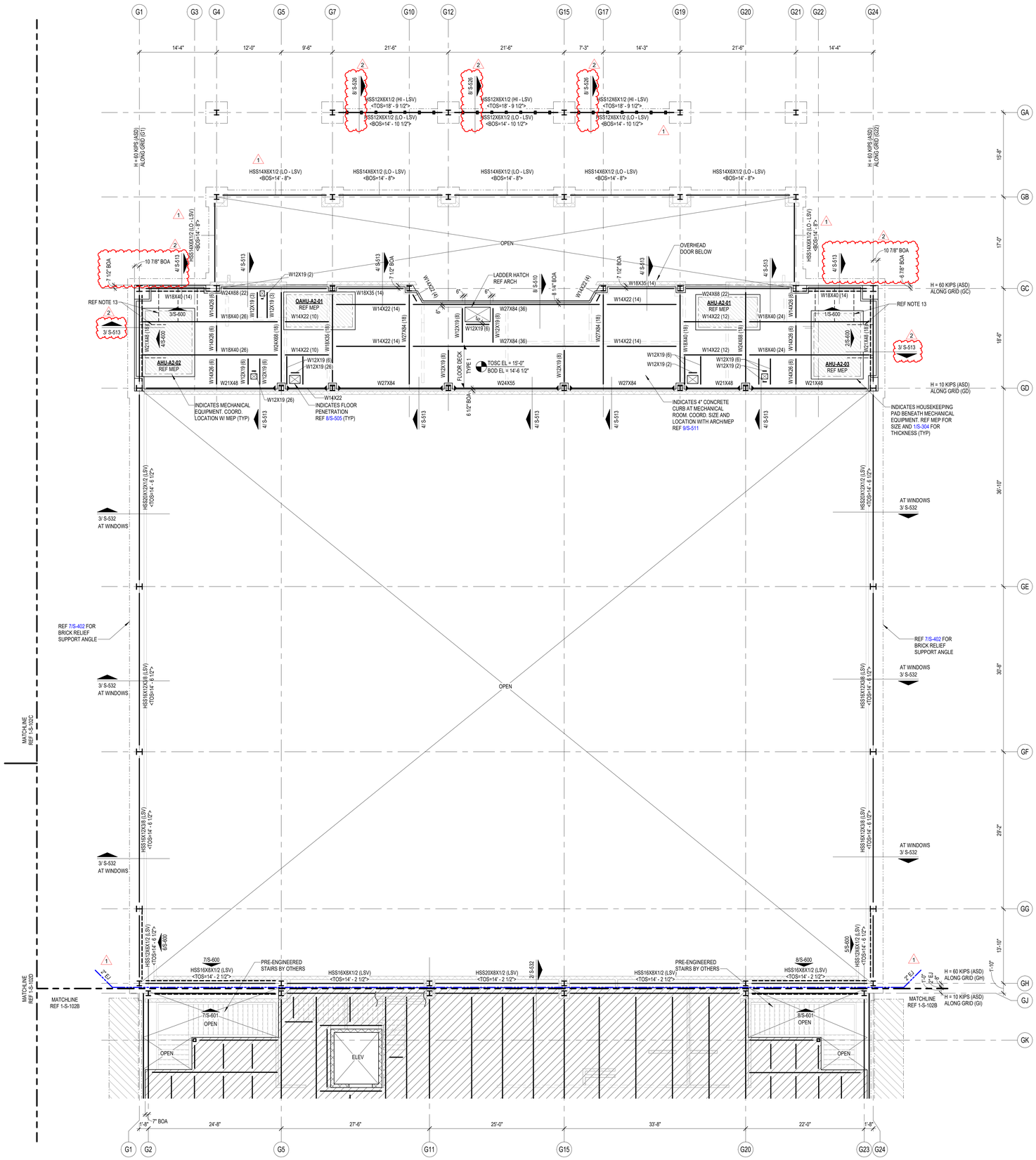
FOUNDATION PLAN - MISC

S-101M

Plot Stamp:
12/18/2025 5:32:33 PM

0"
1"

SECOND FLOOR FRAMING PLAN - AREA A
S-102A
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"
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-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.

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.

1

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 SECOND FLOOR FRAMING PLAN - AREA A
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008
Kubala ENGINEERS
www.kubalaengineers.com
TBPE FIRM: F-23612
TEL 832.651.1427

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE WALL TO WALL

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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

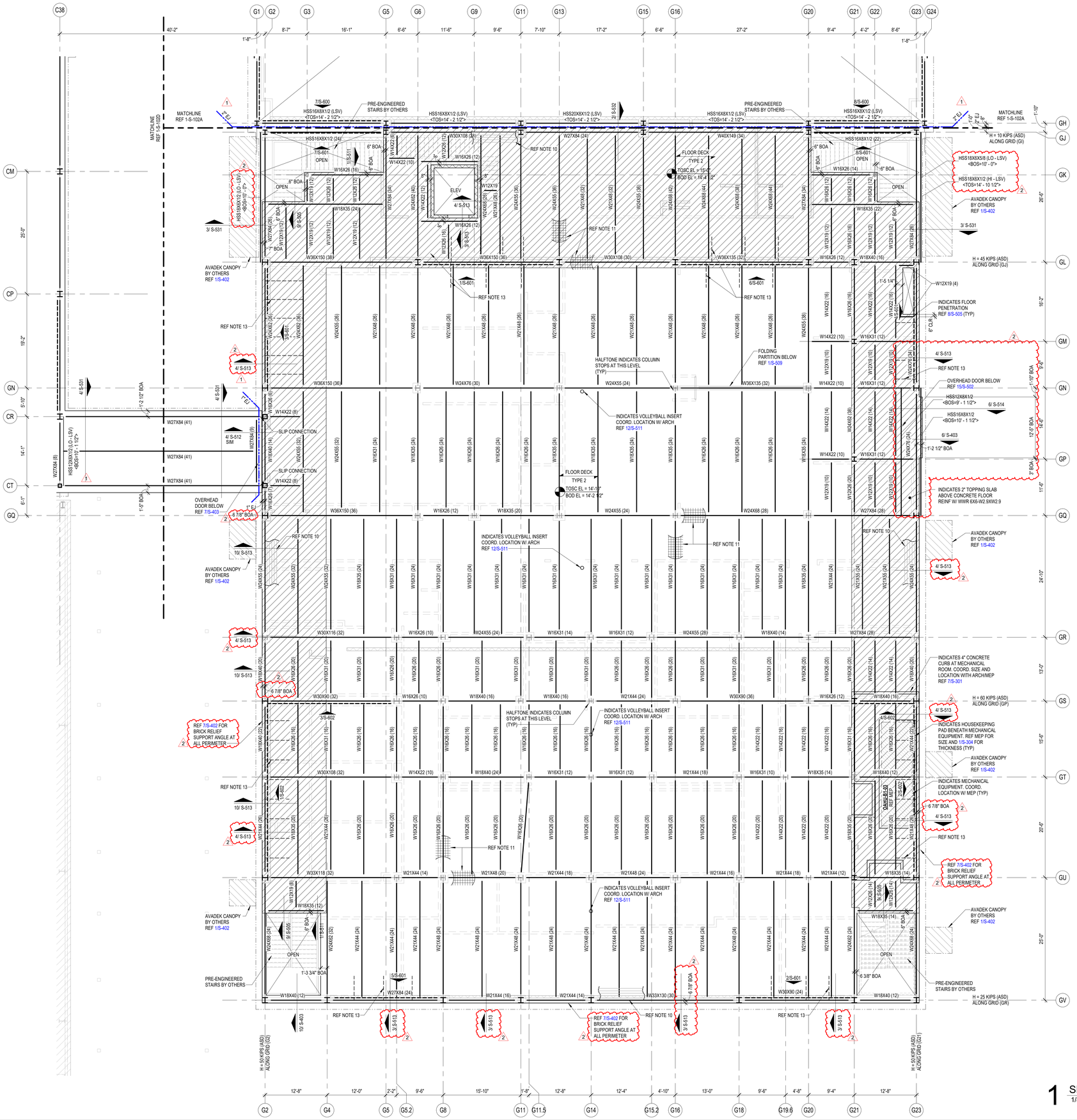
SECOND FLOOR FRAMING PLAN - AREA A

S-102A

Plot Stamp:
12/18/2025 5:32:35 PM

SECOND FLOOR FRAMING PLAN - AREA B
S-102B
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"
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.
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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.
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15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
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17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
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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-601 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.

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.
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1 SECOND FLOOR FRAMING PLAN - AREA B
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0008

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala Engineers
www.kubalaengineers.com
info@kubalaengineers.com
TEL 832.661.1040 ©2012

Galena Park ISD

B

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA B

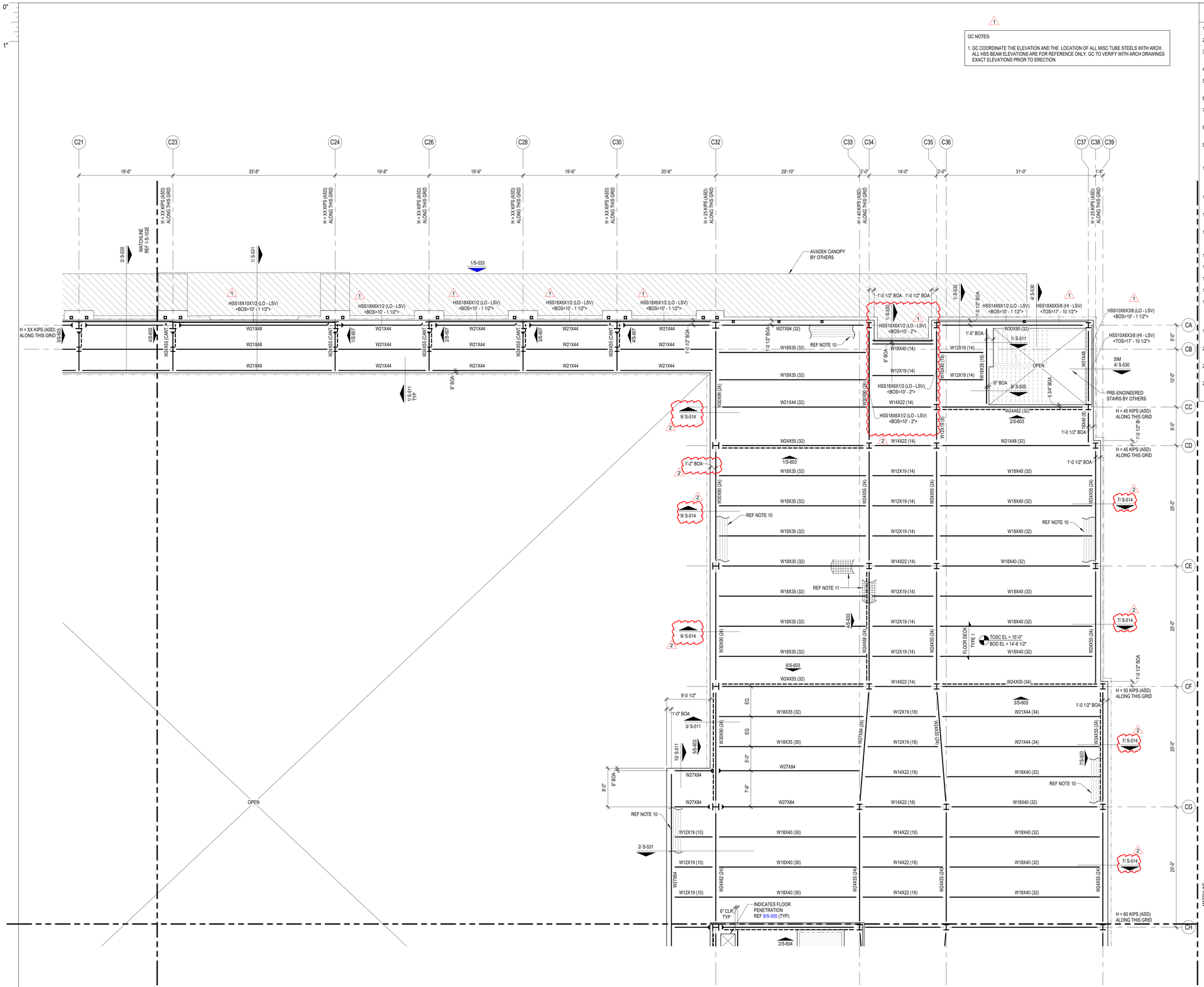
S-102B

Plot Stamp:
12/18/2025 5:32:40 PM

SECOND FLOOR FRAMING PLAN - AREA C

S-102C

FOR BLUEBEAM LABELING/DOOR:



1 SECOND FLOOR FRAMING PLAN - AREA C
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.
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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).
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20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
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22. 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.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
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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:
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.
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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.

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/TBPLS FIRM # 20101400
TX. REG. NO. F-23612

Galena Park ISD
EXCELLENCE IN ALL TOGETHER

C

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA C

S-102C

Plot Stamp:
12/18/2025 5:32:42 PM

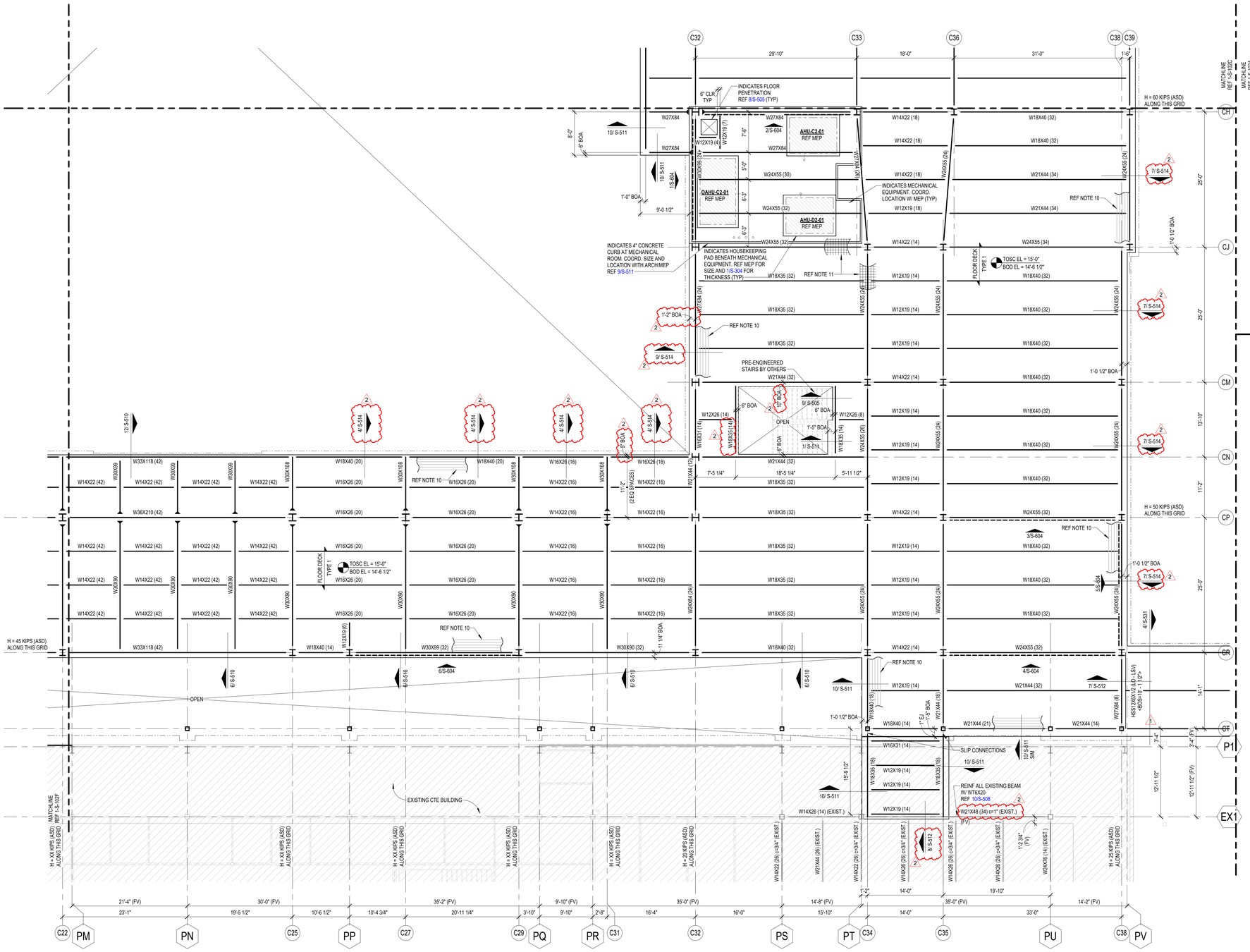
SECOND FLOOR FRAMING PLAN - AREA D

S-102D

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"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
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COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

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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.

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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

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

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

PBK

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TX FIRM: BR 1608

HOUSTON, TX
713-865-0008

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Galena Park, TX 77547

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Kubala ENGINEERS
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713-621-5300
TX REG NO F-23612

Galena Park ISD
EXCELLENCE IN ALL THAT WE DO

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI

DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA D

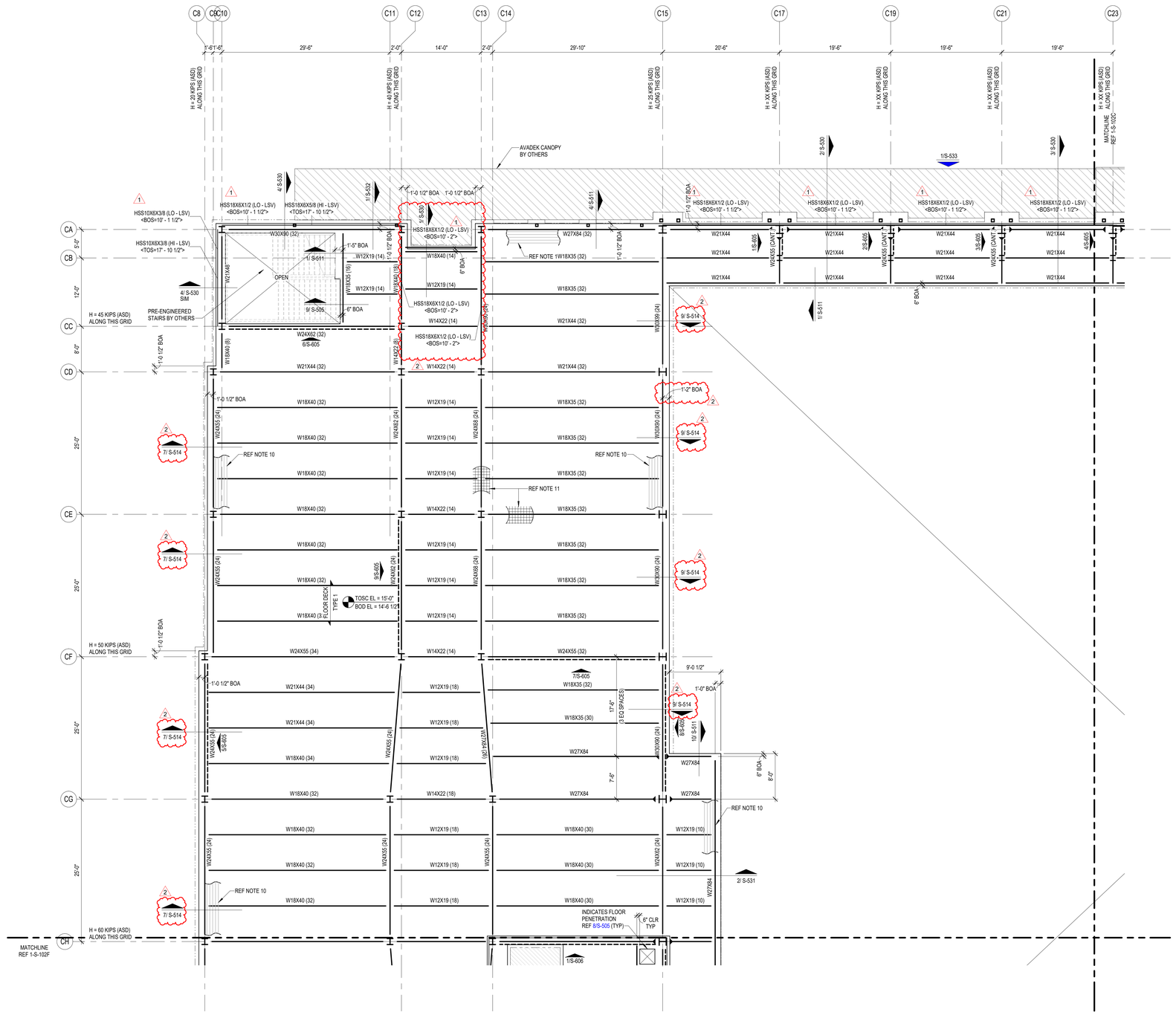
S-102D

Plot Stamp:
12/18/2025 5:32:46 PM

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"
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-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.

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

GC NOTES:

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1 SECOND FLOOR FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
www.pbk.com
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HOUSTON, TX
713-865-0008

Kubala ENGINEERS
www.kubalaengineers.com
TBPE: F-23612
TX: 832-541-7260/1

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI

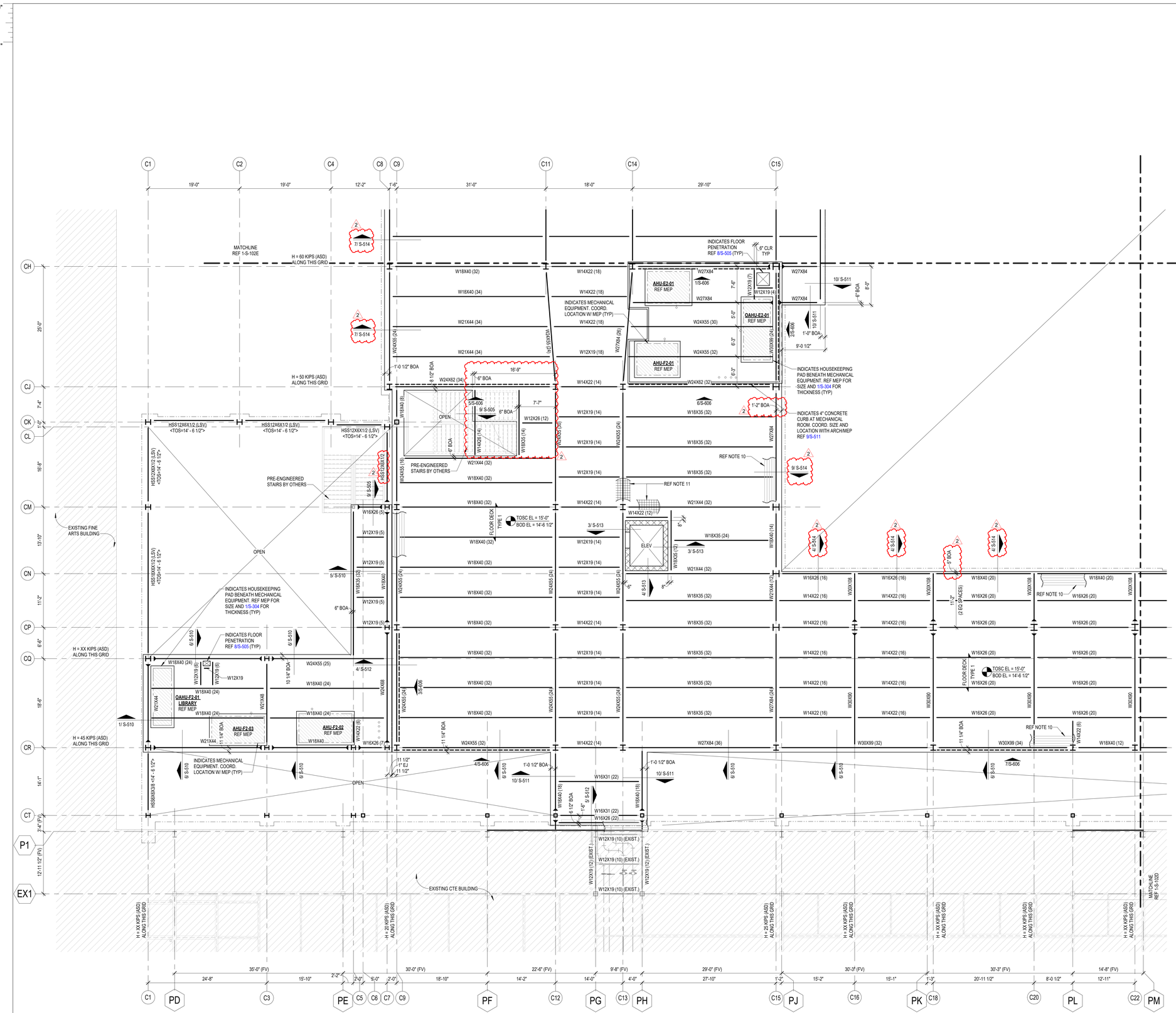
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA E

S-102E

Plot Stamp:
12/18/2025 5:32:48 PM

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"
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.
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6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
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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-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.

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=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

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

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

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-6008
Kubala ENGINEERS
www.kubalaengineers.com
713-621-1900
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

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

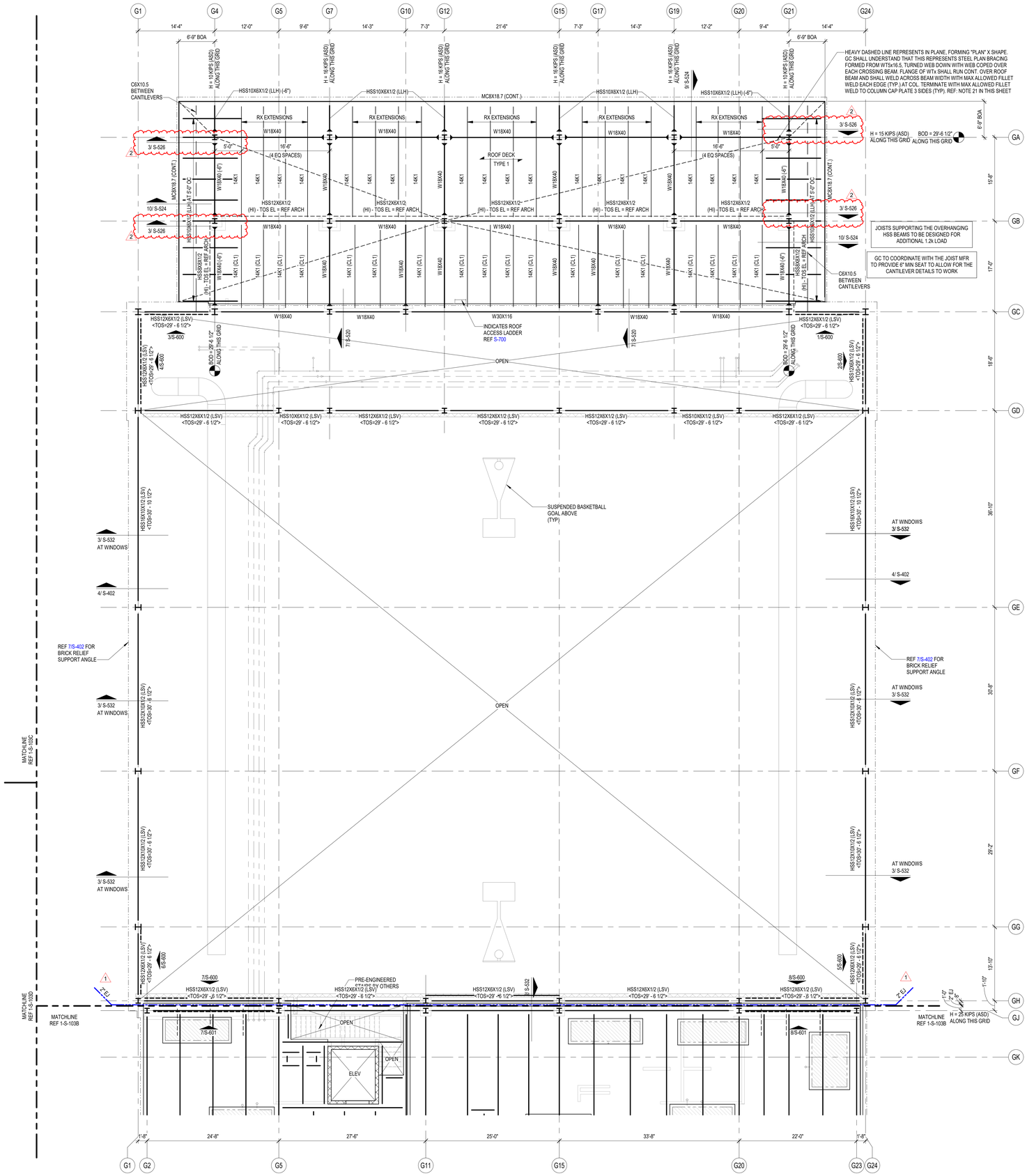
SECOND FLOOR FRAMING PLAN - AREA F

S-102F

Plot Stamp:
12/18/2025 5:32:51 PM

0"
1"

THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A
S-103A
FOR BLUEBEAM LABELING/DOCR:



1 LOW ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

HEAVY DASHED LINE REPRESENTS IN PLANE, FORMING "PLAN" X SHAPE. GC SHALL UNDERSTAND THAT THIS REPRESENTS STEEL PLAN BRACING FORMED FROM WT5x16.5, TURNED WEB DOWN WITH WEB COPED OVER EACH CROSSING BEAM. FLANGE OF WTs SHALL RUN CONT. OVER ROOF BEAM AND SHALL WELD ACROSS BEAM WIDTH WITH MAX ALLOWED FILLET WELD EACH EDGE (TYP.) AT COL. TERMINATE WITH MAX ALLOWED FILLET WELD TO COLUMN CAP PLATE 3 SIDES (TYP). REF. NOTE 21 IN THIS SHEET

JOISTS SUPPORTING THE OVERHANGING HSS BEAMS TO BE DESIGNED FOR ADDITIONAL 1.2k LOAD

GC TO COORDINATE WITH THE JOIST MFR TO PROVIDE 6" MIN SEAT TO ALLOW FOR THE CANTILEVER DETAILS TO WORK

C6X10.5 BETWEEN CANTILEVERS

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 ADDL 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 (BCA) (GALV) (G90) MTL DECK

NOTES: 2

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=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

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

PBK
www.pbk.com
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

Kubala ENGINEERS
Phone: 713-621-2277
www.kubalaengineers.com
TX REG: No. F-236112

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
12/05/2025
Kubala Engineers
F-236112

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

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A

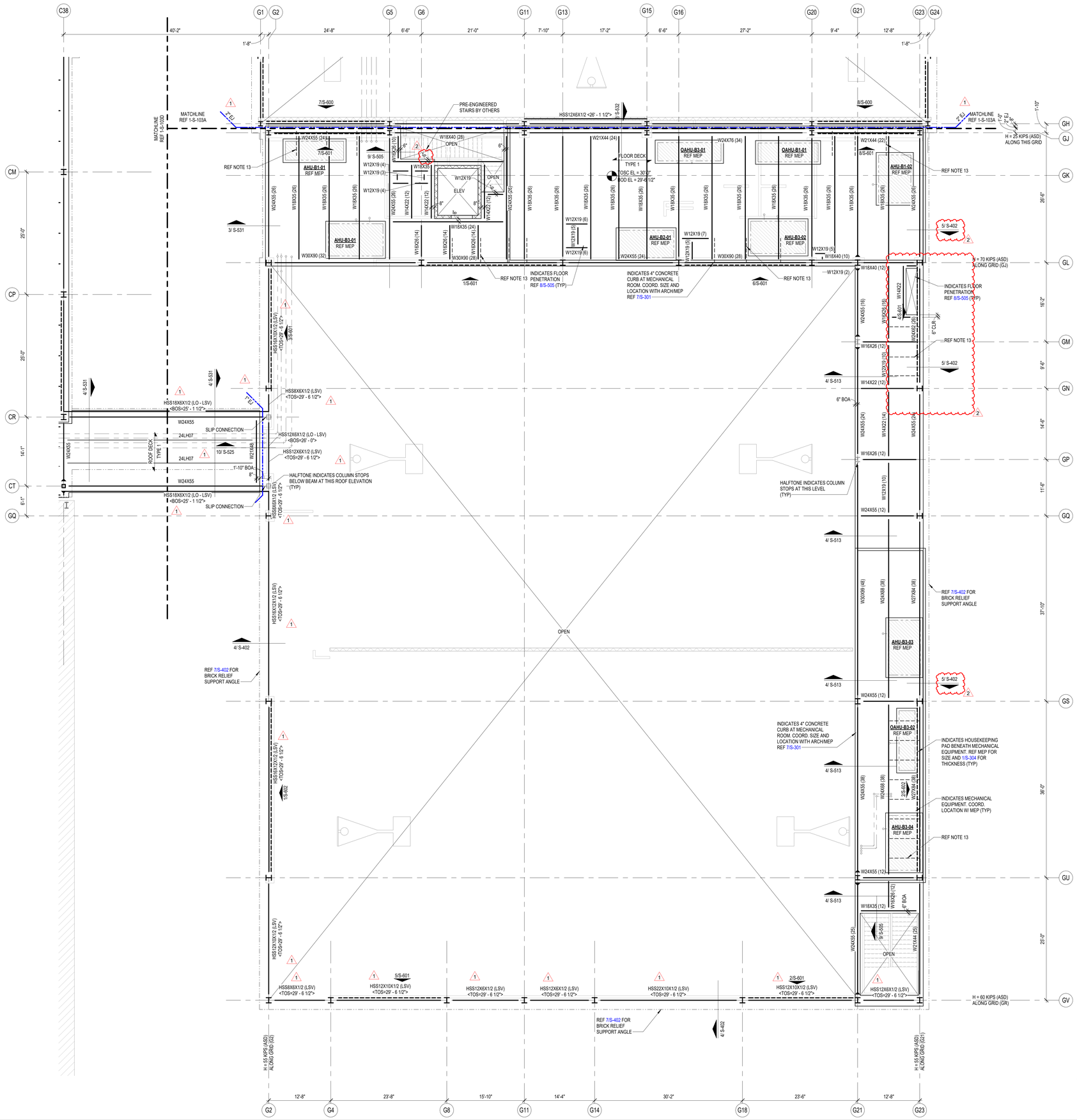
S-103A

Plot Stamp:
12/19/2025 11:14:38 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"
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. [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-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.

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 VI 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.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

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) 831-4004
TX: HC01 14-0 / 12812

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
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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI

DRAWN BY: CML

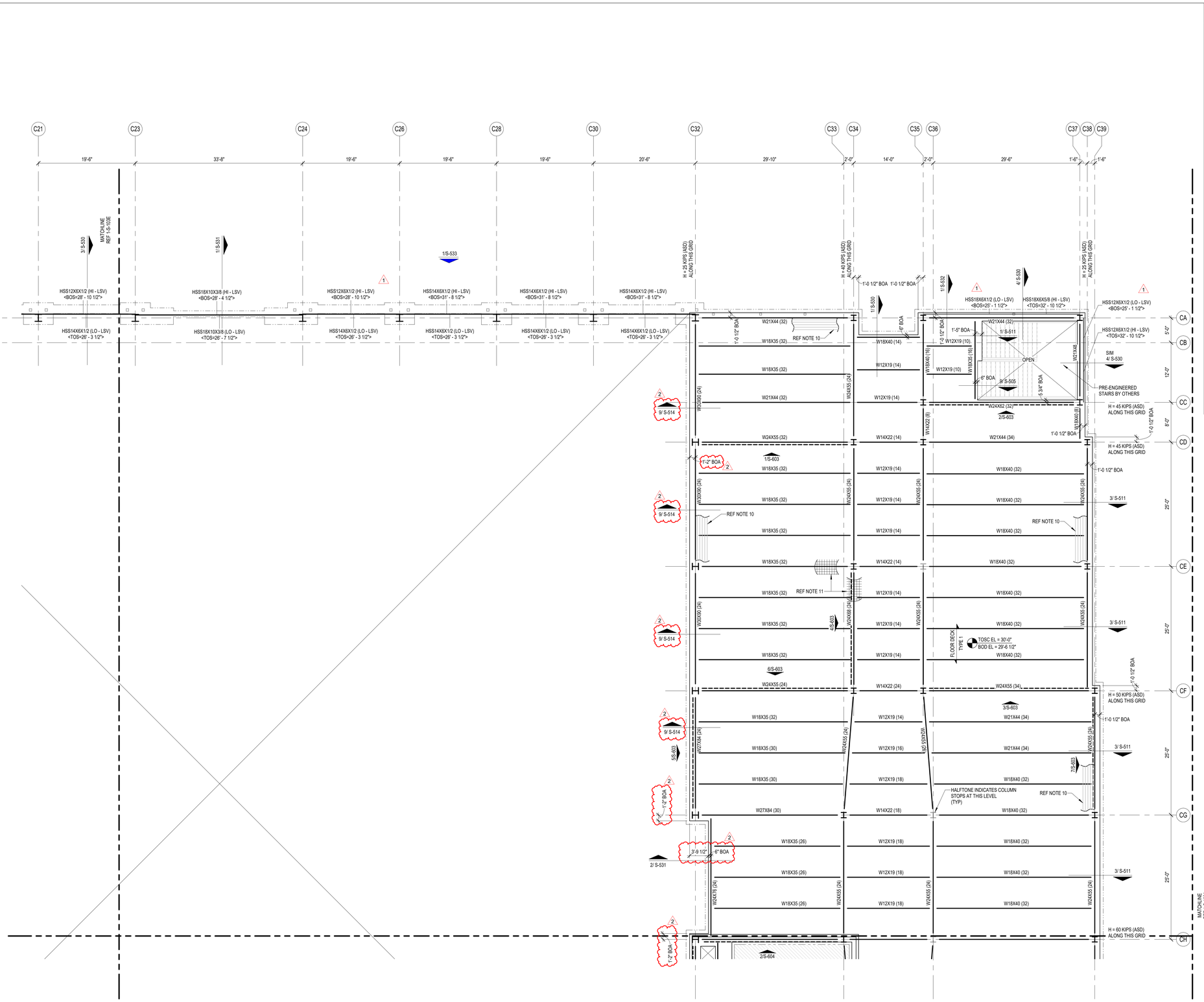
THIRD FLOOR FRAMING PLAN - AREA B

S-103B

Plot Stamp:
12/18/2025 5:32:57 PM

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"
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.
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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 .
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22. 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.

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

GC NOTES:

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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. T-12812

C

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

THIRD FLOOR FRAMING PLAN - AREA C

S-103C

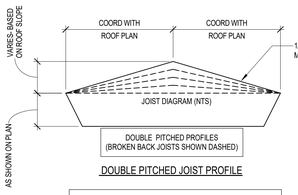
Plot Stamp:
12/18/2025 5:32:59 PM

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D

S-103D

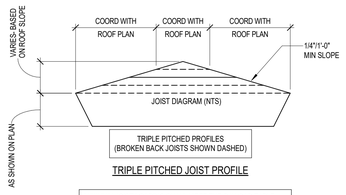
FOR BLUEBEAM LABELING/DOCR:

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.
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.

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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.

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:
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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 ADDL 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 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-505 TYP ALONG ENTIRE GRID AT 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-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.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

Kubala Engineers
STRUCTURAL
www.kubalaengineers.com
Phone: 832-623-6464
TX: 14525 - NO. 7 - 2012

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
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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

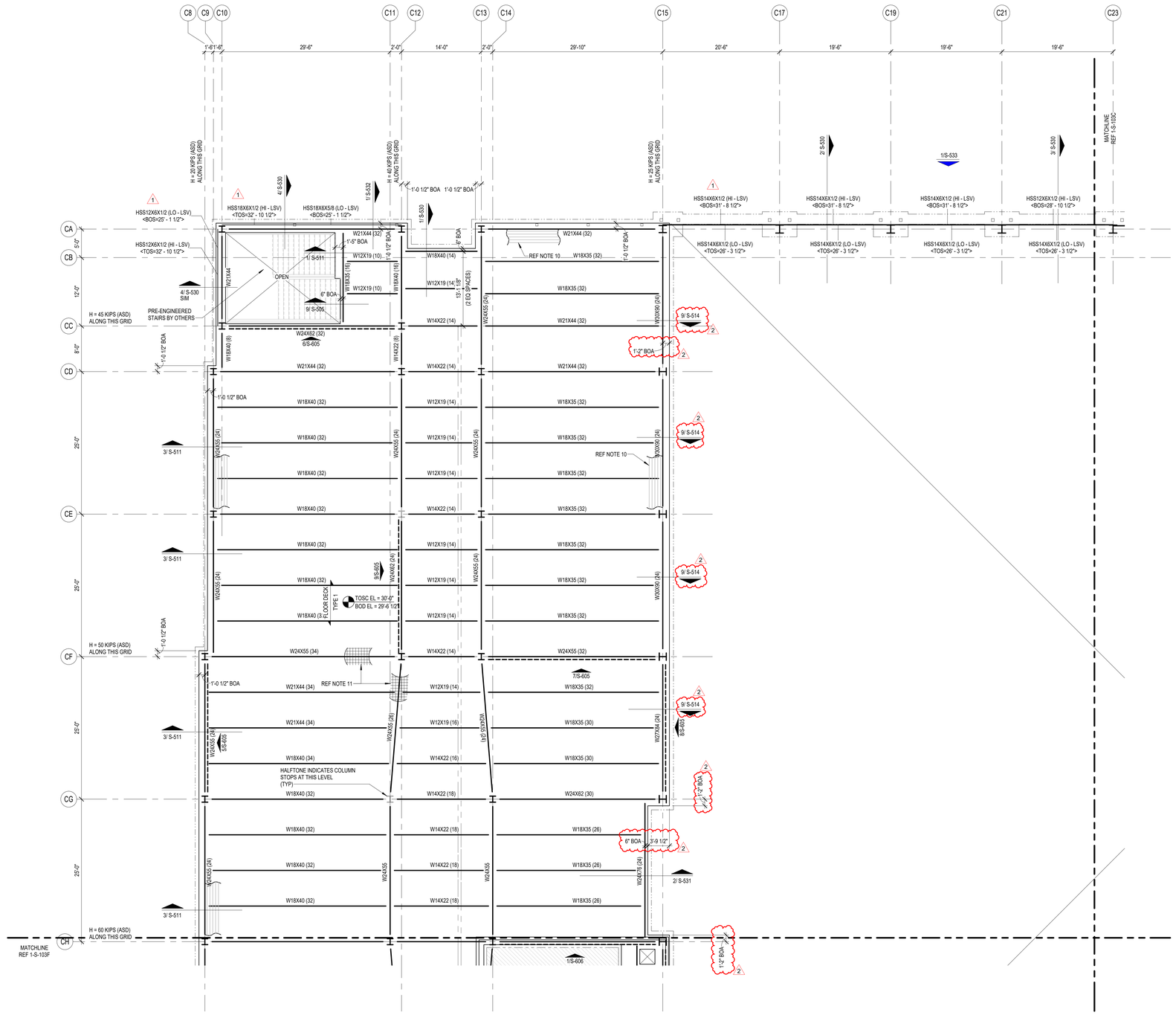
THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D

S-103D

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12/18/2025 5:59:05 PM

THIRD FLOOR FRAMING PLAN - AREA E
S-103E

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"
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-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.

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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GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 THIRD FLOOR FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008
Kubala Engineers
www.kubalaengineers.com
TBPE FIRM: F-23612
TEL 832.541.1567 x 20812

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI

DRAWN BY: CML

THIRD FLOOR FRAMING PLAN - AREA E

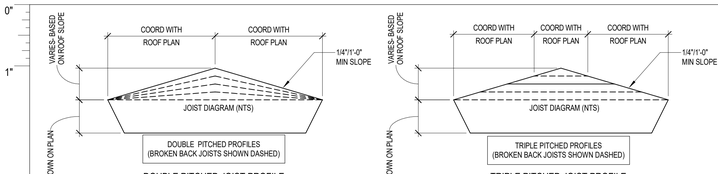
S-103E

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12/18/2025 5:33:03 PM

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F

S-103F

FOR BLUEBEAM LABELING/DOCR:



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 U/NO. 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 U/NO. 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=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.

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 ADDL 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 DL 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,U/NO 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 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-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-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.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F
1/8" = 1'-0"

PBK

www.pbk.com

TX FIRM: BR 1608

HOUSTON, TX
713.366.0008

Kubala ENGINEERS
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

F

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: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

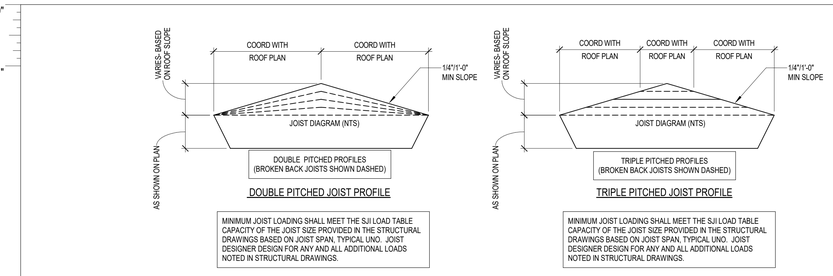
THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F

S-103F

Plot Stamp:
12/18/2025 6:04:24 PM

CLASSROOM LOW ROOF FRAMING PLAN - AREA C
S-104C

FOR BLUEBEAM LABELING/DOOR:



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=XXK (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.X (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 4XXX1/4 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 35'-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 ADDL 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.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM LOW ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

Kubala ENGINEERS
www.kubalaengineers.com
TBPE #20006
TX REGIS. NO. F-2362

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-2362

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

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

CLASSROOM LOW ROOF FRAMING PLAN - AREA C

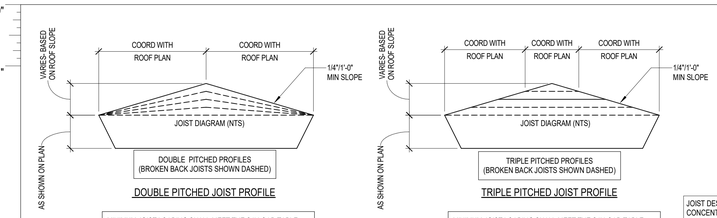
S-104C

Plot Stamp:
12/19/2025 11:16:01 AM

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D

S-104D

FOR BLUEBEAM LABELING/DOCR:



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=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.

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-W2.9/W2.9, 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-W2.9/W2.9, 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 (3CA) (GALV) (G90) MTL DECK 2

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 ADDL 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 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-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. [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-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.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBPLS FIRM #23612
713.621.1617 x 2012

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI

DRAWN BY: CML

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D

S-104D

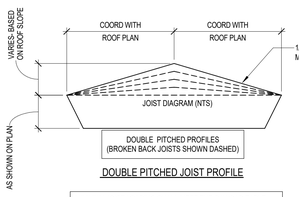
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CLASSROOM LOW ROOF FRAMING PLAN - AREA E

S-104E

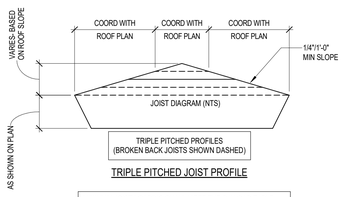
FOR BLUEBEAM LABELING/DOOR:

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.
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=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 35'-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 ADDL 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 (BCA) (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 NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM LOW ROOF FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0008

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 No. 23812
TX: 469.621.1647 / 2812

Galena Park ISD



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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI

DRAWN BY: CML

CLASSROOM LOW ROOF FRAMING PLAN - AREA E

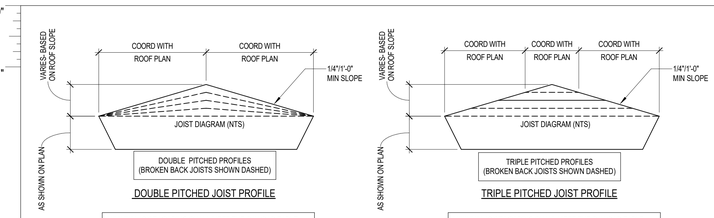
S-104E

Plot Stamp:
12/19/2025 11:17:11 AM

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F

S-104F

FOR BLUEBEAM LABELING/DOOR:



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=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.

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 (SCA) (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 ADDL 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 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-505 TYP ALONG ENTIRE GRID AT 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-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.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0008

Kubala ENGINEERS
www.kubalaengineers.com
TBPE FIRM: F-23612
TX: 16525 NO.T-2952

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
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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F

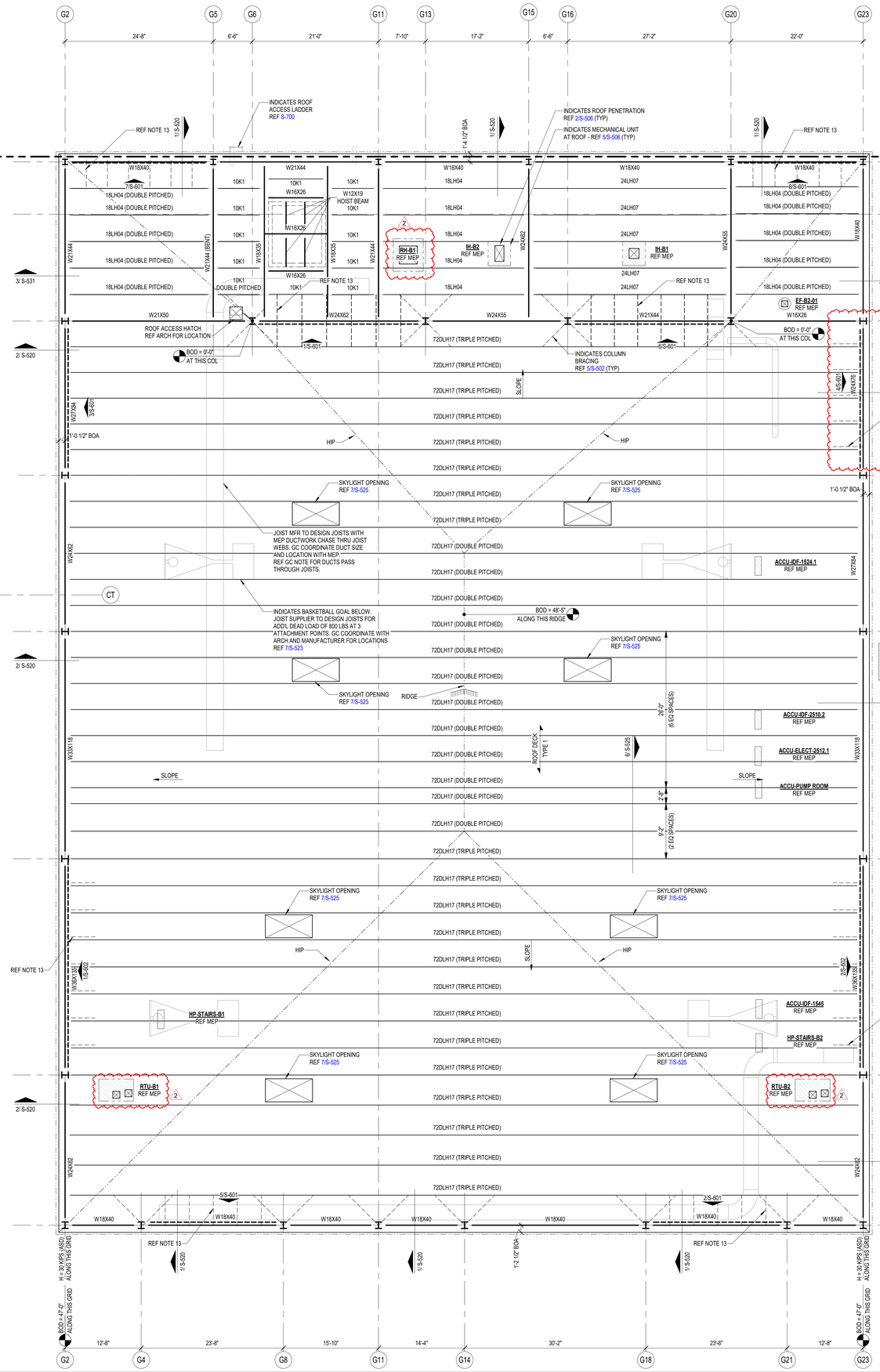
S-104F

Plot Stamp:
12/19/2025 11:17:50 AM

GYM HIGH ROOF FRAMING PLAN - AREA B
S-105B

FOR BLUEBEAM LABELING/OCR:

0"
1"



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 4XX1/4 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 35'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-403. 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.

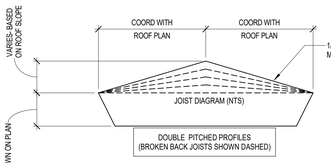
JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD 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:

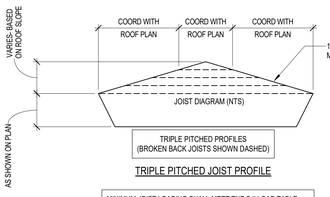
WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, 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.

STEEL FABRICATOR TO COORDINATE WITH THE JOIST MANUFACTURER TO CAMBER THE BEAMS PARALLEL TO LONG SPAN JOISTS MATCHING THE JOIST CAMBER.



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 .
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 (SGA) (GALV) (G90) MTL DECK
2

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 GYM HIGH ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

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Galena Park, TX 77547

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Galena Park ISD

B

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
2	ADDENDUM 03	12/19/2025

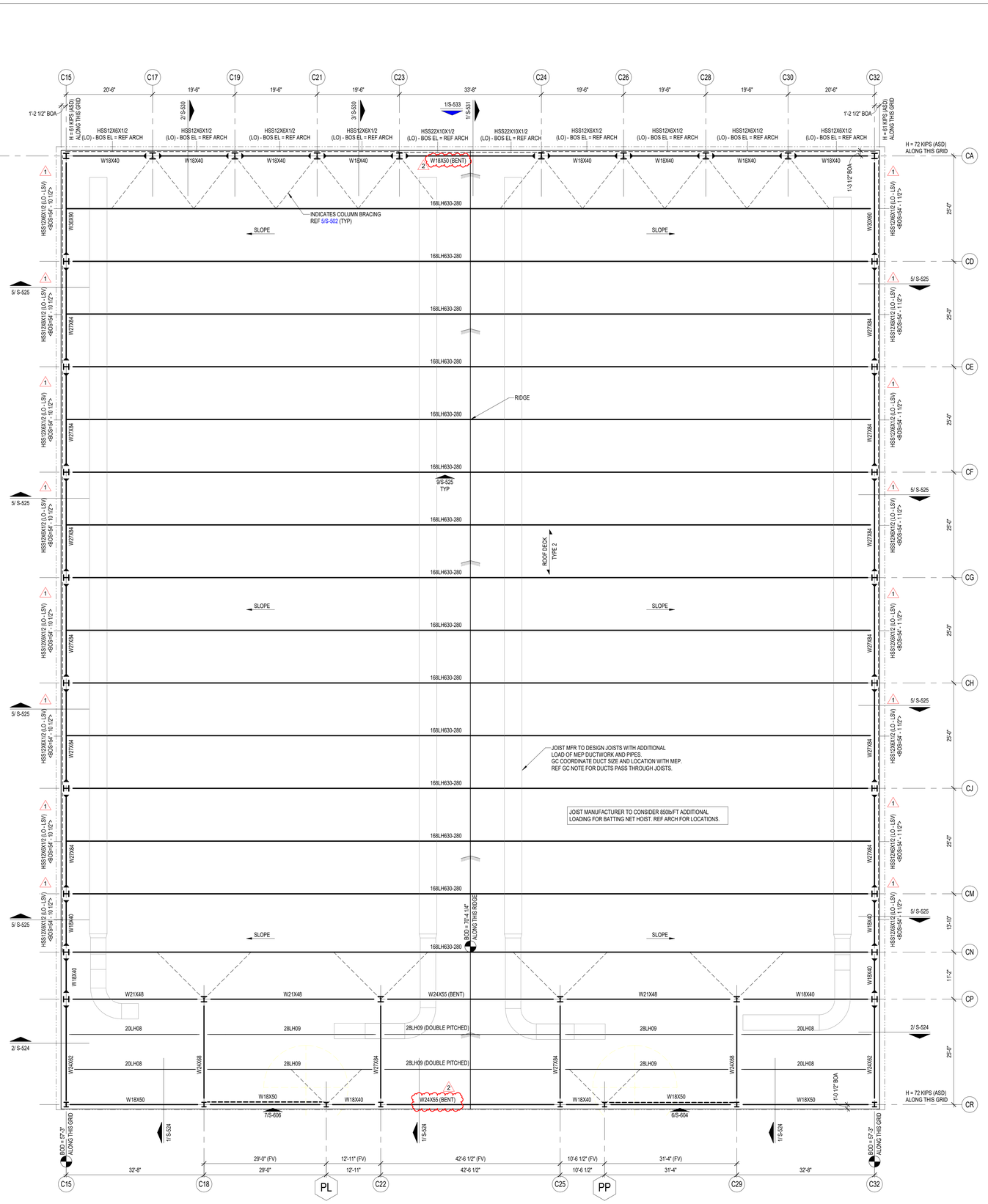
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GYM HIGH ROOF FRAMING PLAN - AREA B

S-105B

Plot Stamp:
12/19/2025 11:18:24 AM

CLASSROOM HIGH ROOF FRAMING PLAN - AREA G
S-105G
FOR BLUEBEAM LABELING/DOOR:



GC PLEASE NOTE:

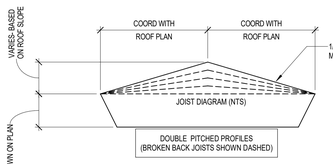
1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM 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 4XX1/4 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.

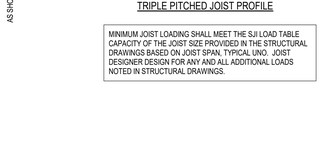
GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX.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.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 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDL 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 (18GA) (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

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM HIGH ROOF FRAMING PLAN - AREA G
3/32" = 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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

CLASSROOM HIGH ROOF FRAMING PLAN - AREA G

S-105G

Plot Stamp:
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GENERAL CONCRETE AND STL REINF NOTES AND TYP DETAILS
S-300
FOR BLUEBEAM LABELING/OOCR:

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 WITH CASING			•		3/4	6-8	0.55	150	I / II	40	-
1.1 PIERS WITH SLURRY			•		3/4	7-9	0.5	150	I / II	25	-
2. FOOTINGS			•		3/4	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.

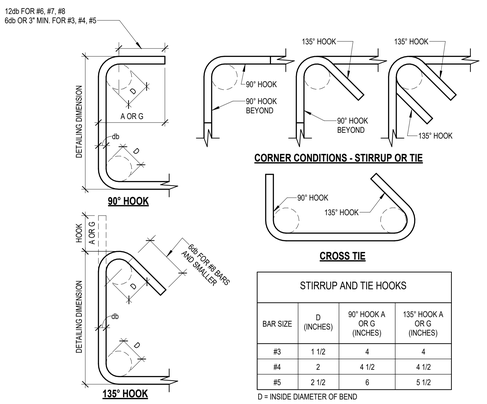
AVOID THESE METHODS:
- TRADITIONAL CURING COMPOUNDS THAT LEAVE A THICK FILM, AS THEY INTERFERE WITH POLISHING.

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.

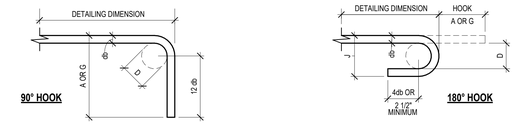
4.9 FINAL POLISH: PROGRESSIVELY FINER GRITS (E.G., 200, 400, 800, 1500, 3000) PER ARCHITECT'S SPECIFICATION.



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
	Lhb	0.7 Lhb	Lhb	0.7 Lhb	Lhb	0.7 Lhb	
#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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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
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

GENERAL CONCRETE AND STL REINF NOTES AND TYP DETAILS

S-300

Plot Stamp:
12/18/2025 5:33:24 PM

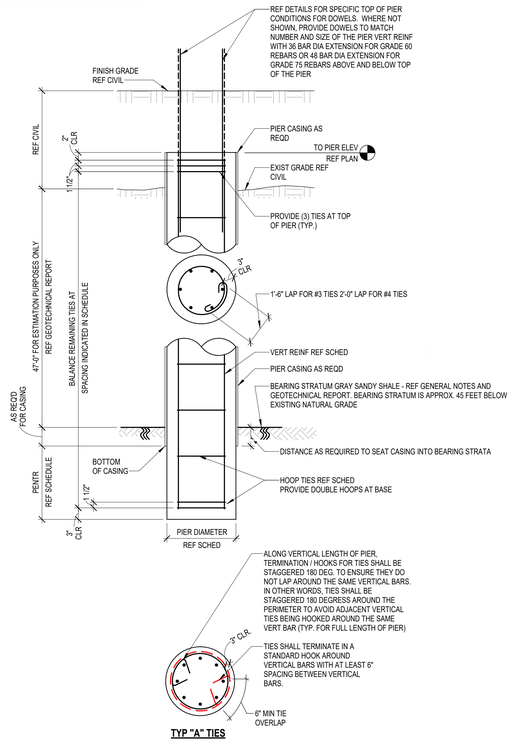
GENERAL FOUNDATION NOTES AND TYP DETAILS
S-303
FOR BLUEBEAM LABEL/INDOOR:

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 PRESSSURE (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. GROUNDWATER WAS INITIALLY ENCOUNTERED AT DEPTHS AS SHALLOW AS 10 FEET BGS IN BORINGS DURING DRILLING AND ROSE TO DEPTHS AS SHALLOW AS 9 FEET WITHIN 15 MINUTES. FURTHER GROUNDWATER WAS ENCOUNTERED AT DEPTHS AS SHALLOW AS 2 FEET BGS IN THE INSTALLED PIEZOMETER. GROUNDWATER SHOULD BE EXPECTED TO BE ENCOUNTERED DURING PIER EXCAVATION AND THE RISK OF GROUNDWATER SEEPAGE IS INCREASED DURING OR AFTER PERIODS OF PRECIPITATION. SUBMERSIBLE PUMPS MAY BE CAPABLE OF CONTROLLING SEEPAGE IN THE PIER EXCAVATION TO ALLOW CONCRETE PLACEMENT. GC SHALL ACCOUNT FOR THE COST AND ADDITIONAL TIME IN SCHEDULE FOR TEMPORARY CASINGS AND/OR SLURRY METHOD FOR ALL STRAIGHT SHAFT PIERS ON THE PROJECT. CASING SHALL BE SIZED TO MAINTAIN THE PIER DIAMETER INDICATED IN THE SCHEDULE AND SHALL NOT BE LEFT IN PLACE PERMANENTLY. THE PIER EMBED SHALL BE INCREASED FOR ANY ADDITIONAL SEATING DISTANCE OF THE CASING NEEDED TO SEAL OFF THE WATER.

2



TYP "A" TIES

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.

APPLICABLE TxDOT STANDARDS:
DRILLED PIER FOUNDATIONS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF TxDOT ITEM 416 (STANDARD SPECIFICATION FOR CONSTRUCTION OF DRILLED PIER FOUNDATIONS) AND AS PER ACI 336.1-01 THIS SPECIFICATION INCLUDES REQUIREMENTS FOR CONSTRUCTION USING CASING OR THE SLURRY DISPLACEMENT METHOD, AS APPROPRIATE.

2

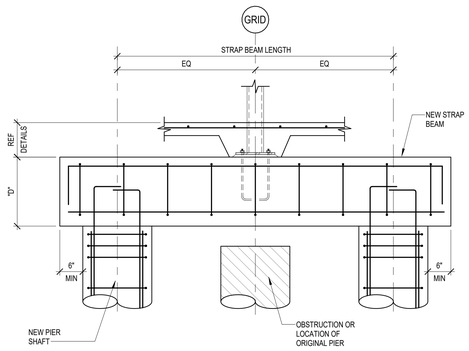
5 TYPICAL STRAIGHT SHAFT PIER SCHEDULE
NO SCALE

NOTE:

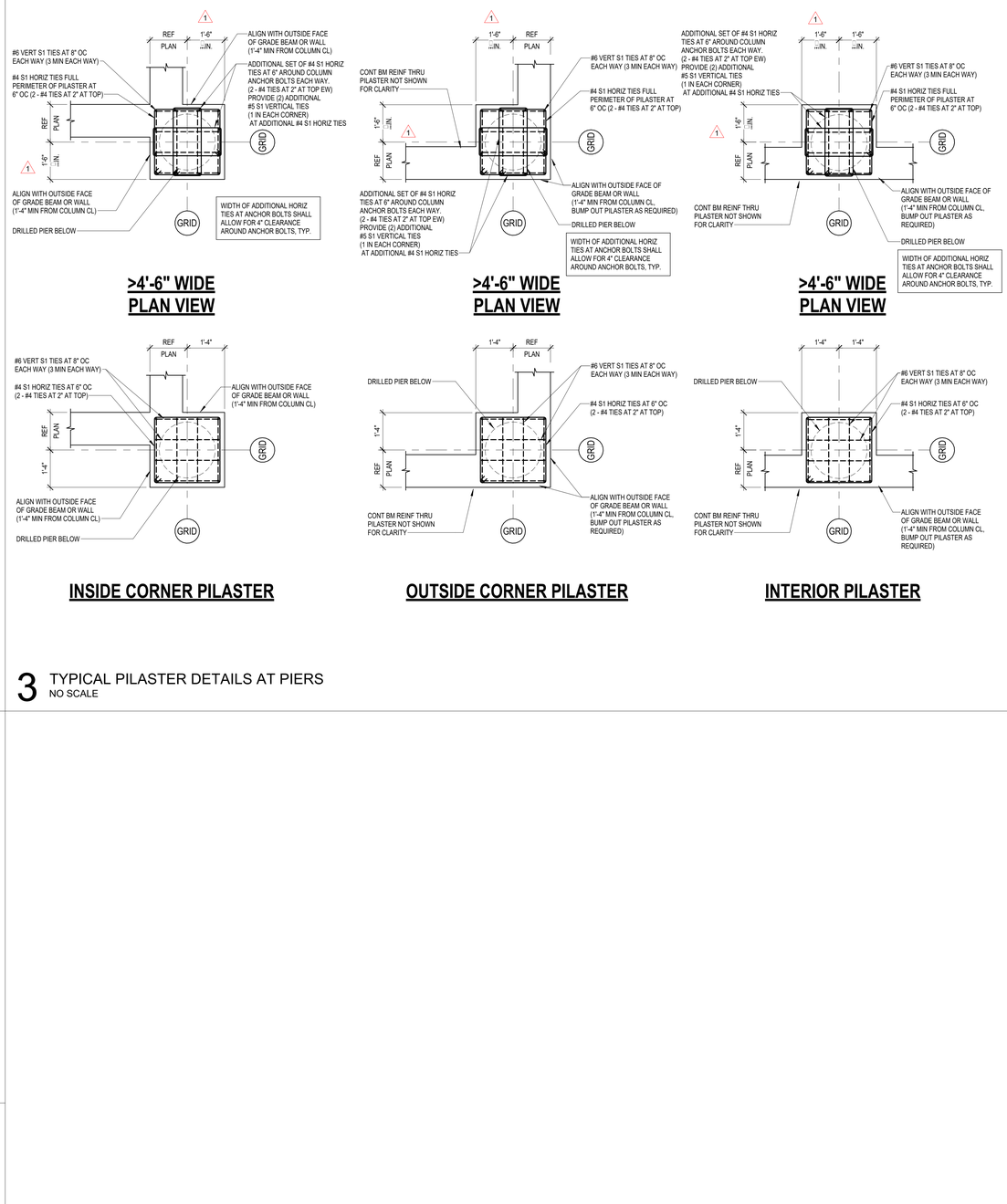
1. THIS DETAIL SHALL BE USED AT BUILDING SITES WHERE EXISTING UTILITIES, FOUNDATIONS OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE PIER INSTALLATIONS. THE ORIGINAL SINGLE PIER SHALL BE REPLACED WITH TWO NEW PIERS AND A NEW STRAP BEAM SHALL BE ADDED AS SHOWN. ANY UTILITY LINES THAT ARE ENCOUNTERED SHALL 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



3 TYPICAL PILASTER DETAILS AT PIERS
NO SCALE

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

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Galena Park ISD

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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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303

Plot Stamp:
12/18/2025 5:33:25 PM

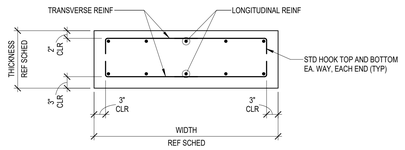
0"
1"

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

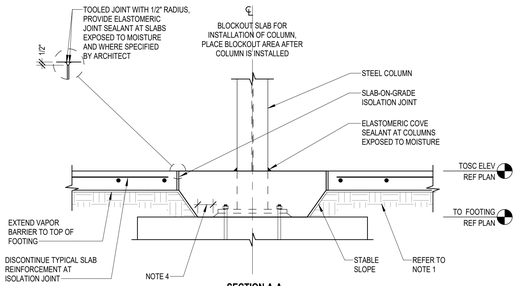
SPREAD FOOTING SCHEDULE

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	
F7	6' - 0"	10' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 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	
F15	15' - 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	

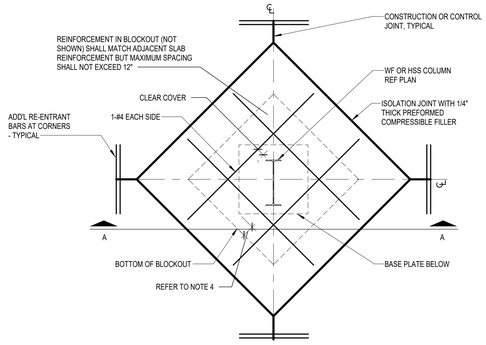
CONTINUOUS FOOTING SCHED.

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

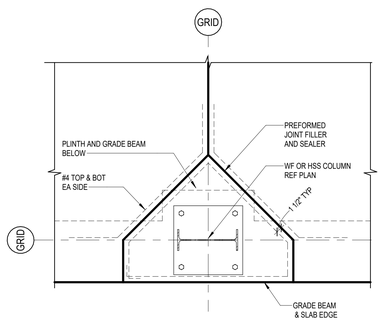


PLAN

NOTES:

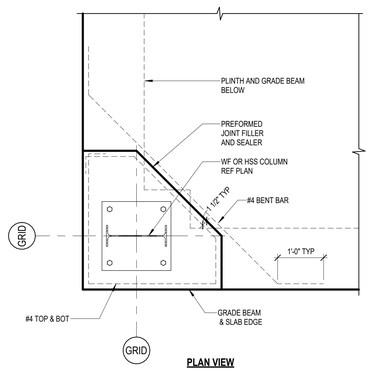
1. REFER TO "TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION" FOR SUBGRADE PREPARATION REQUIREMENTS INCLUDING LOCATION OF VAPOR BARRIER RELATIVE TO SLAB AND GRANULAR BASE AND WHETHER FINE-GRADE GRANULAR MATERIAL IS REQUIRED.
2. REFER TO "TYPICAL CONSTRUCTION AND CONTROL JOINTS - SLAB-ON-GRADE" FOR CONSTRUCTION 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



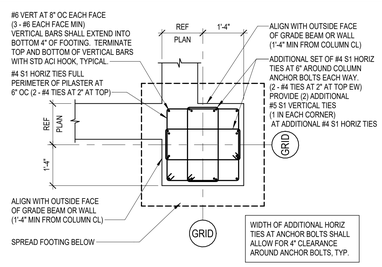
PLAN VIEW

4 TYPICAL SLAB-ON-GRADE PERIMETER BLOCKOUT DETAIL
NO SCALE



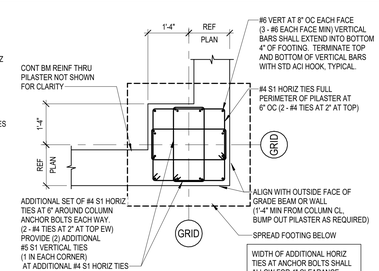
PLAN VIEW

5 TYPICAL SLAB-ON-GRADE CORNER BLOCKOUT DETAIL
NO SCALE



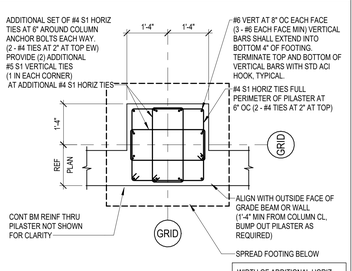
>4'-6" WIDE PLAN VIEW

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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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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: Checker
DRAWN BY: Author

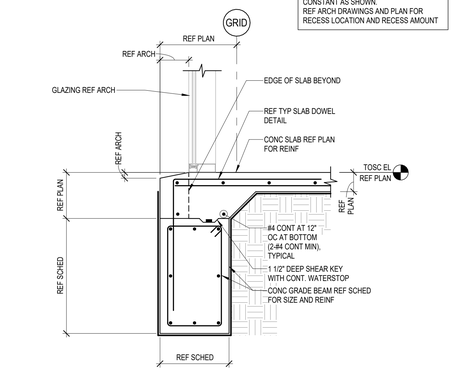
GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303SF

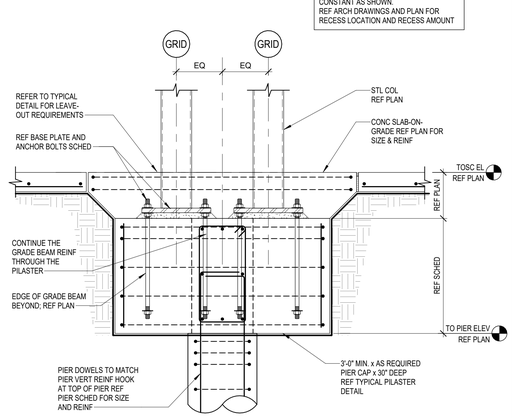
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FOUNDATION DETAILS
S-311
FOR BLUEBEAM LABEL/INDOOR:

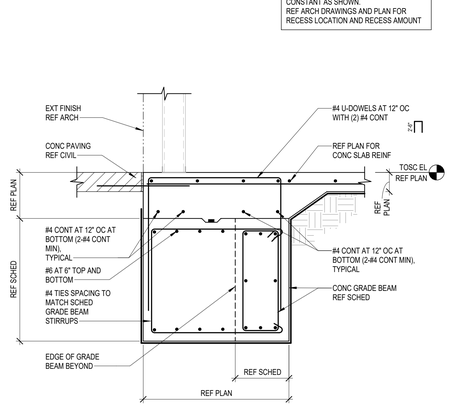
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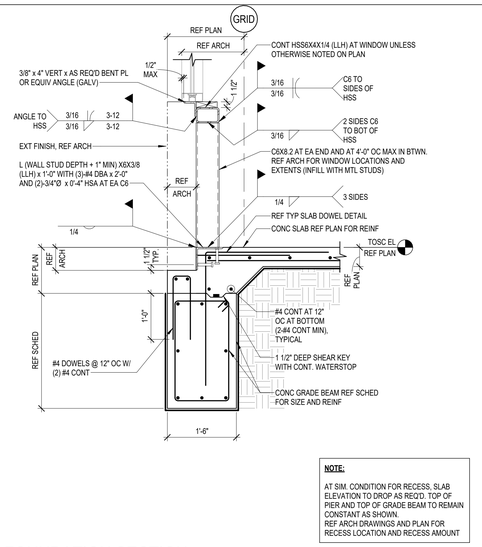
1 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"



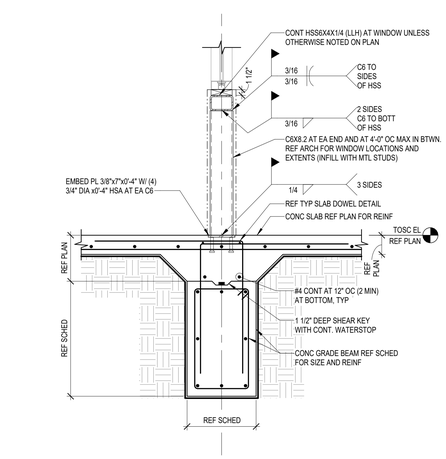
2 DOUBLE COLUMNS W/ONE PIER
3/4" = 1'-0"



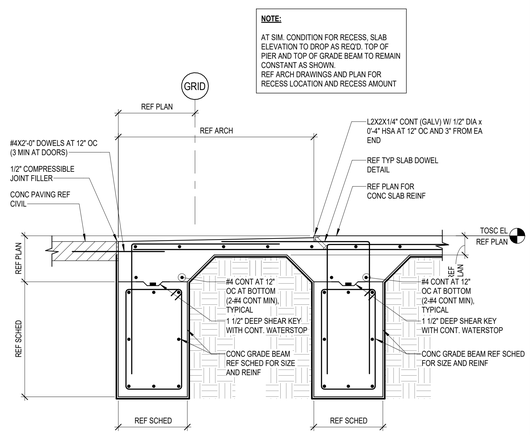
3 EXTERIOR WIDENED GRADE BEAM
3/4" = 1'-0"



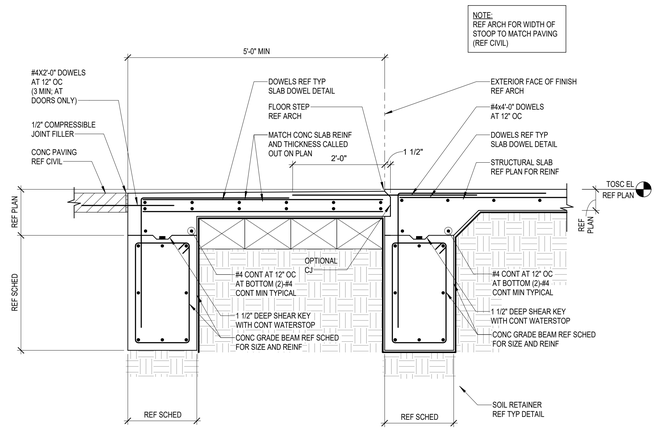
4 FOUNDATION SECTION
3/4" = 1'-0"



5 SECTION AT PLATFORM
3/4" = 1'-0"

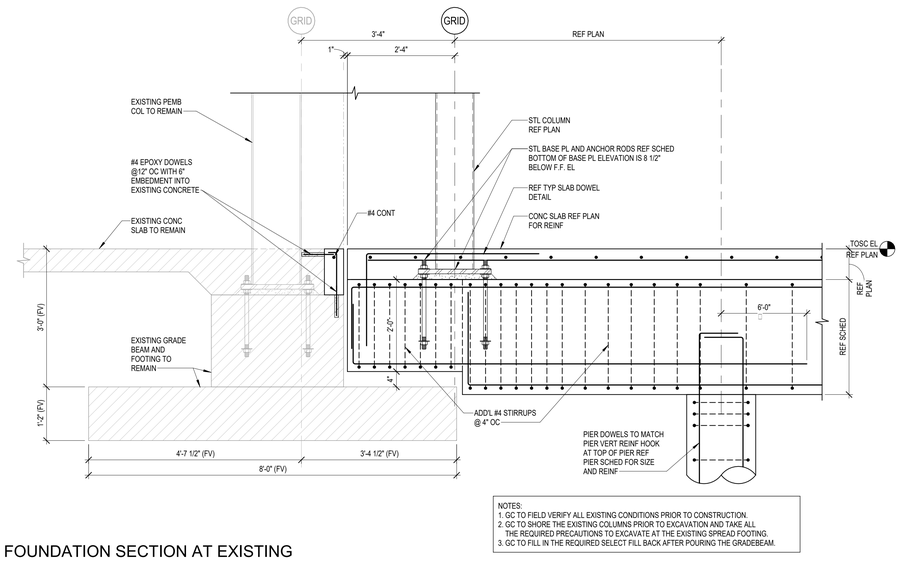


2
6 EXTERIOR GRADE BEAM AT OVERHEAD DOOR
3/4" = 1'-0"



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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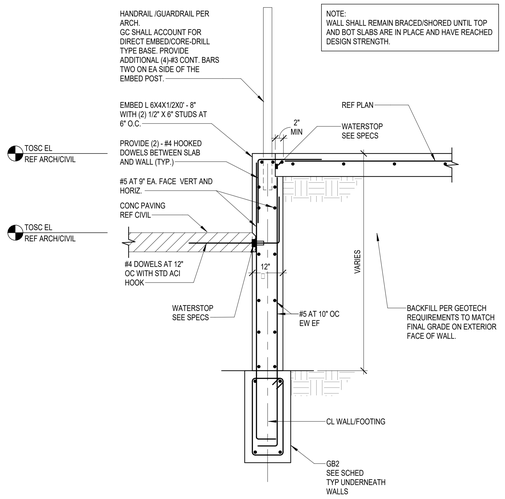
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FOUNDATION DETAILS

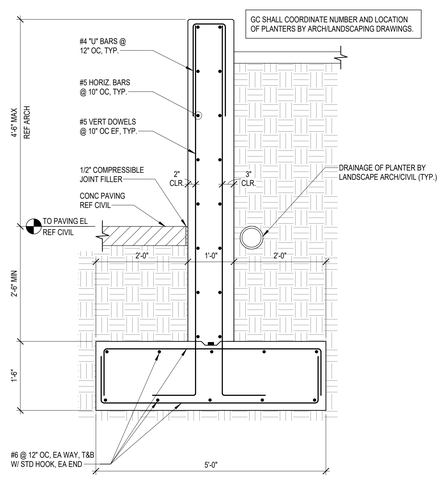
S-311

SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-321
FOR BLUEBEAM LABELING/OCR:

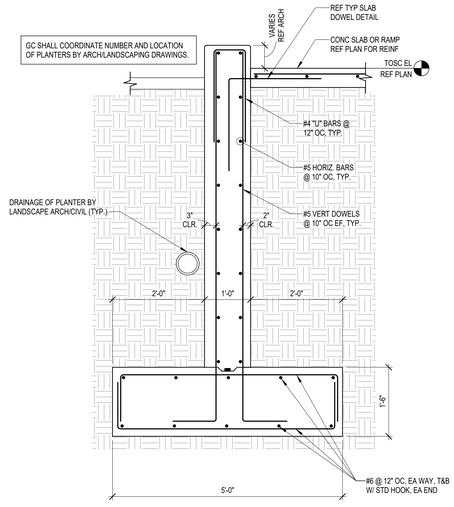
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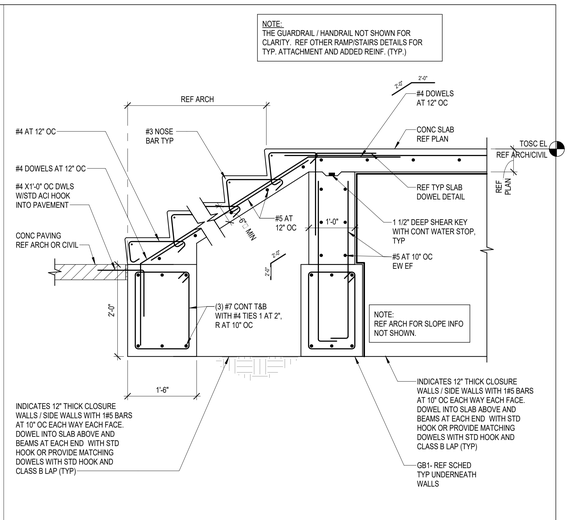
1 CONCRETE WALL
3/4" = 1'-0"



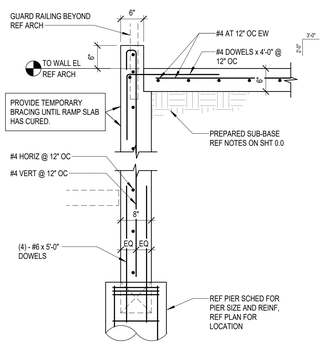
2 SECTION AT PLANTER WALL
3/4" = 1'-0"



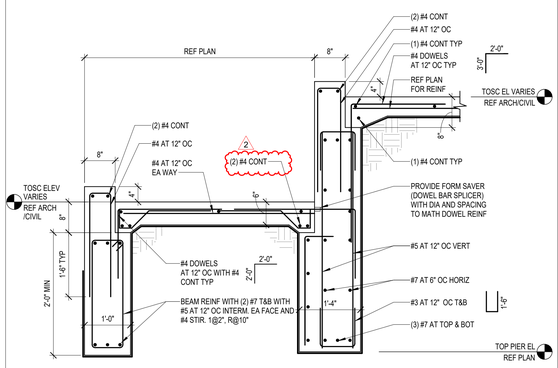
3 SECTION AT PLANTER WALL AND SLAB/RAMP
3/4" = 1'-0"



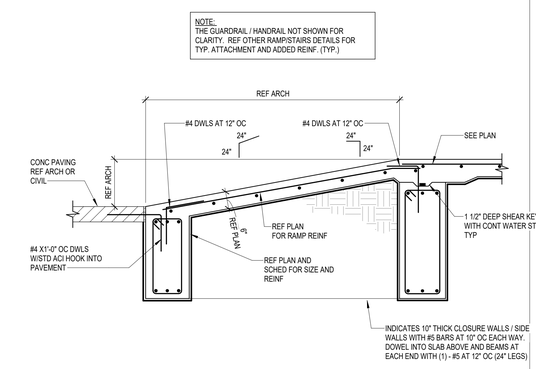
4 CONCRETE STAIR DETAIL
3/4" = 1'-0"



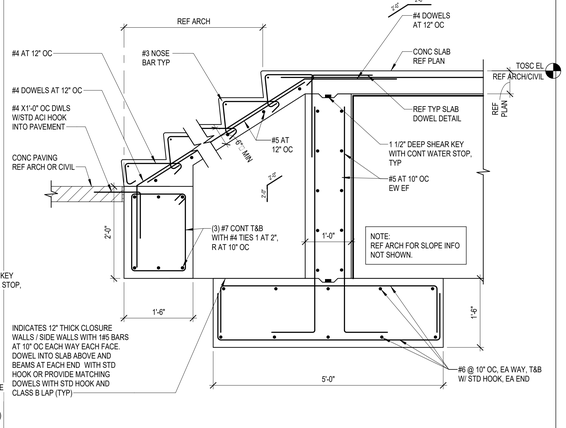
5 RAMP AT PIER
3/4" = 1'-0"



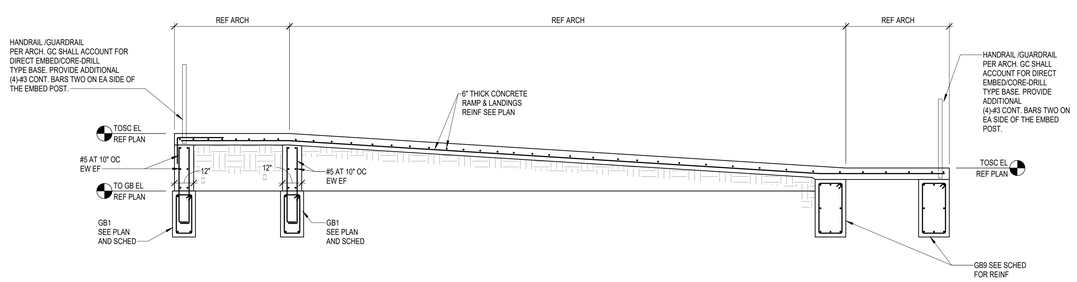
6 CONCRETE RAMP DETAIL
3/4" = 1'-0"



7 CONCRETE RAMP DETAIL
3/4" = 1'-0"



8 CONCRETE STAIR DETAIL
3/4" = 1'-0"



9 RAMP DETAIL
3/8" = 1'-0"

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

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

SITE ITEMS FOUNDATION SECTIONS AND DETAILS

S-321

0"

1"

GENERAL STEEL NOTES AND TYP DETAILS

S-507

FOR BLUEBEAM LABELING/DOCR:

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.

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:

METAL DECK SCHEDULE

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 (WIN)	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	18	WIDE RIB	3	1.120	1.123	0.660	0.667	2 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

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, (2) 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 (2) 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.

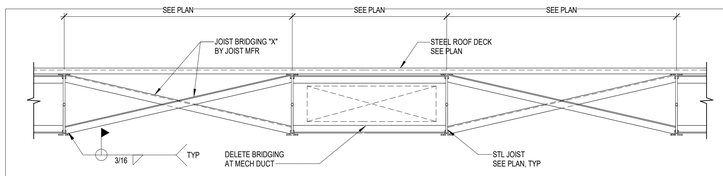
6. IN ADDITION TO THE DECK CONNECTIONS INDICATED IN THE CONNECTION SCHEDULE, THE DECK SHALL BE CONNECTED AT EACH FLUTE AT EACH SUPPORT WITHIN THE FIRST 10 FEET FROM THE BUILDING PERIMETER.

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.

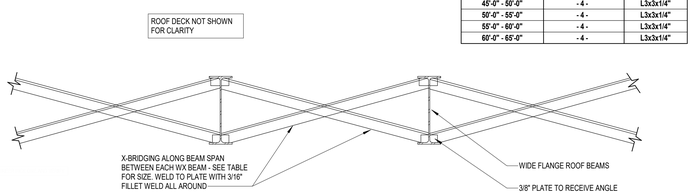
9. SUSPENDED CEILING, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.

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.

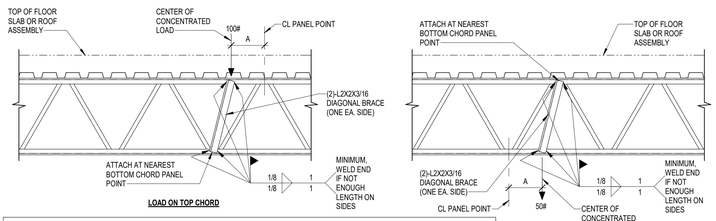


1 TYPICAL BRIDGING
NO SCALE

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"



3 TYPICAL UPLIFT BRIDGING DETAIL
3/4" = 1'-0"



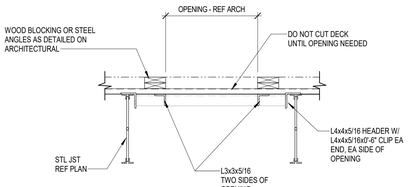
NOTES:

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

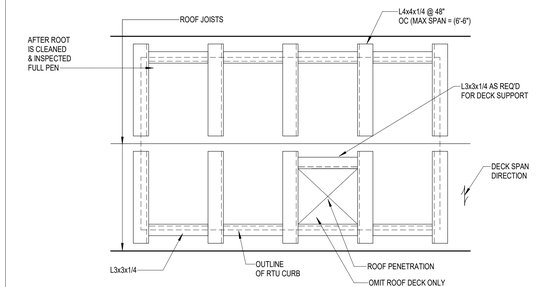
THIS DETAIL APPLIES FOR OPENINGS GREATER THAN 1'-1" IN ANY DIRECTION. FOR OPENINGS GREATER THAN 6" AND LESS THAN 1'-1" IN ANY DIRECTION, USE A 16 GAGE DOUBLER PLATE WITH A PLAN DIMENSION 3 TIMES THE OPENING SIZE. SCREW PLATE TO DECK WITH #12 SCREWS @ 6" OC.



NOTE:

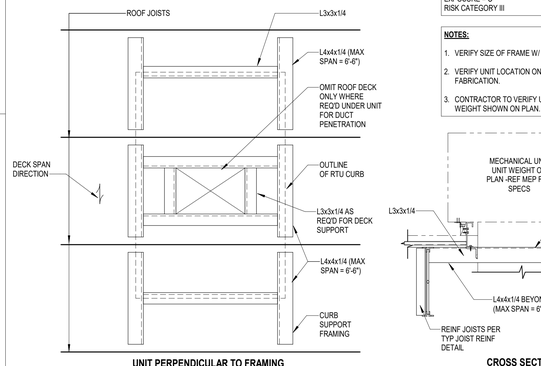
1. PROVIDE L3x3x1/4" FRAME FOR ROOF DRAIN SUPPORT (MIN) UNLESS NOTED OTHERWISE IN ARCHITECTURAL DRAWINGS

2 TYPICL ROOF OPENING DETAIL
NO SCALE



UNIT PARALLEL TO FRAMING

DESIGN CRITERIA:
INTERNATIONAL BUILDING CODE 2015
WIND VELOCITY = 150 MPH (3-SEC)
EXPOSURE = C
RISK CATEGORY III



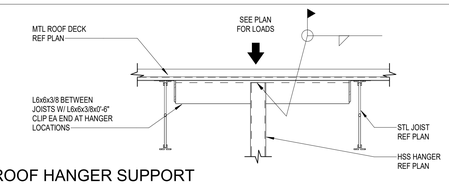
NOTES:

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.

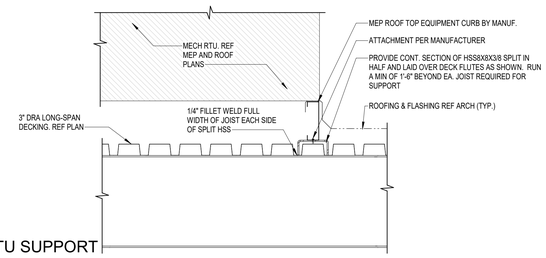
UNIT PERPENDICULAR TO FRAMING

CROSS SECTION

5 TYPICAL SUPPORT AT MECHANICAL UNIT DETAIL
NO SCALE



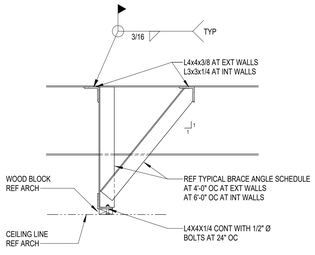
6 DETAIL AT ROOF HANGER SUPPORT
NO SCALE



7 T

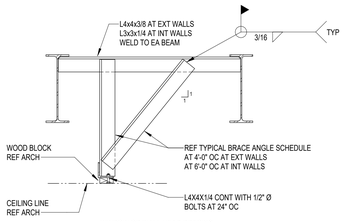
GENERAL STEEL NOTES AND TYP DETAILS
S-508
FOR BLUEBEAM LABELING/DOOR:

0"
1"



WINDOW OR WALL HEAD BRACING
PERPENDICULAR TO BEAMS

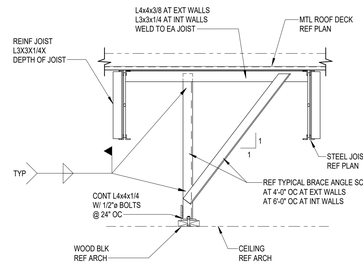
DECK NOT SHOWN FOR CLARITY



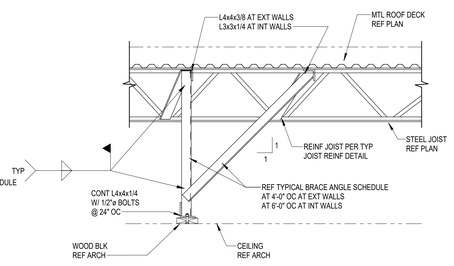
WINDOW OR WALL HEAD BRACING
PARALLEL TO BEAMS

1 TYPICAL WINDOW OR WALL HEAD BRACING AT BEAMS
NO SCALE

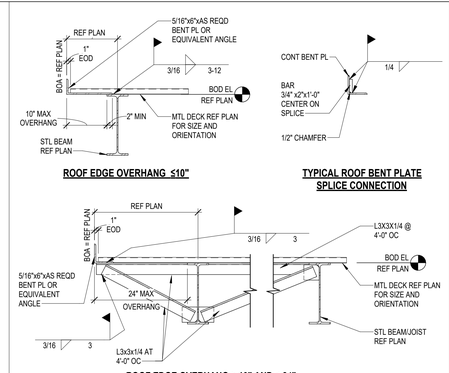
NOTE:
DESIGN JOISTS FOR ADDTIONAL DEAD LOAD = 1.2 KIPS



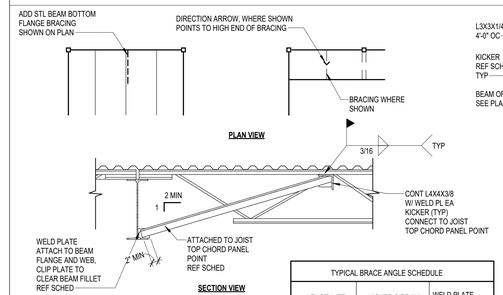
NOTE:
DESIGN JOISTS FOR ADDTIONAL DEAD LOAD = 0.25 KLF



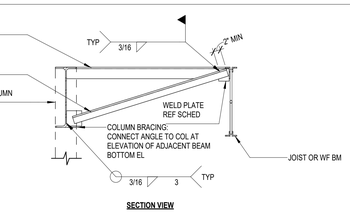
2 TYPICAL WINDOW OR WALL HEAD BRACING AT JOISTS
NO SCALE

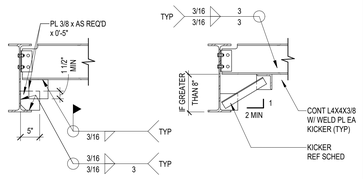


3 TYPICAL ROOF EDGE DETAIL
3/4" = 1'-0"

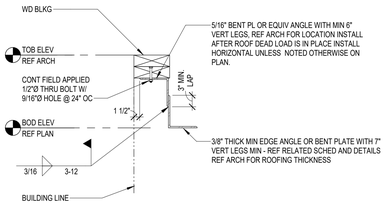


TYPICAL BRACE ANGLE SCHEDULE		
LENGTH (FT)	KICKER SIZE (IN)	WELD PLATE SIZE (IN)
UP TO 3'-0"	L2-1/2X2-1/2X3/16	PL 4x4x3/8
3'-0" TO 8'-0"	L3 x 3 x 1/4	PL 4x4x3/8
8'-0" TO 12'-0"	L4 x 4x 1/4	PL 5X5X3/8
12'-0" TO 16'-0"	L5 x 5x 5/16	PL 6x6x3/8



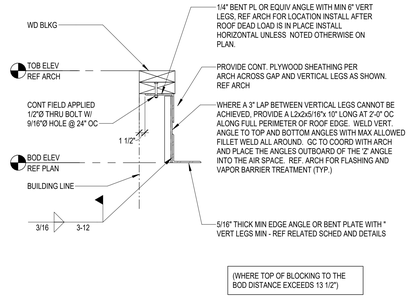


4 TYPICAL BEAM/JOIST BOTTOM FLANGE BRACE
NO SCALE

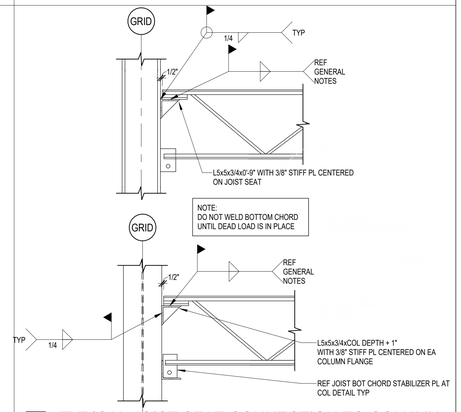


5 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"

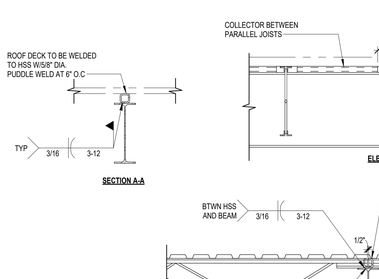
GC TO COORDINATE THIS DETAIL WITH ARCHITECT TO
ENSURE ALL WATERPROOFING REQUIREMENTS ARE MET.

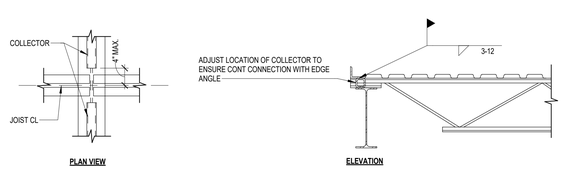


6 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"



7 TYPICAL JOIST SEAT CONNECTION TO COLUMN
3/4" = 1'-0"

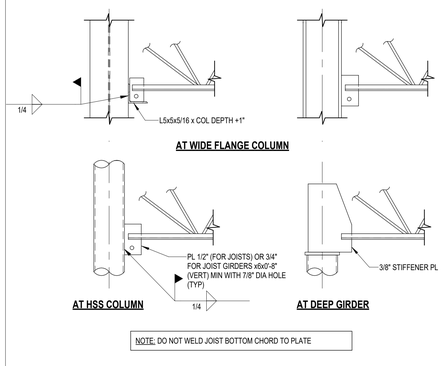




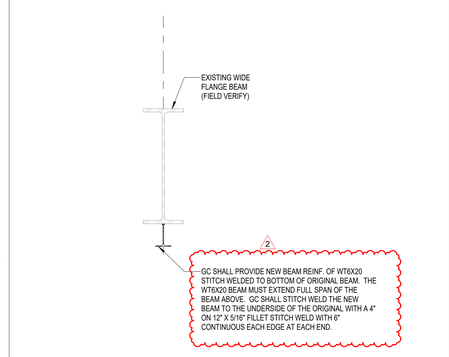
NOTES:
1. PROVIDE HSS BETWEEN JOIST SEATS AT WIND BRACING BEAMS, MOMENT FRAME BEAMS AND COLLECTOR BEAMS WITH "H" FORCE SPECIFIED AT END OF THE BEAM PLAN.
2. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE 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

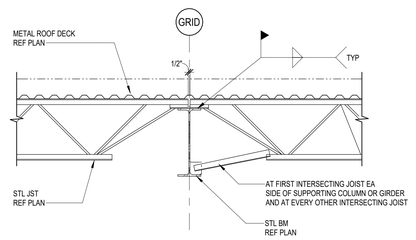


9 TYPICAL JOIST/JOIST GIRDER BOTTOM CHORD STABILIZER PLATE AT COLUMN
3/4" = 1'-0"



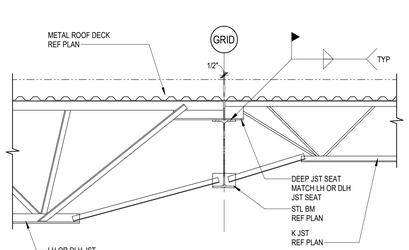
10 EXISTING BEAM REINF
3/4" = 1'-0"

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.

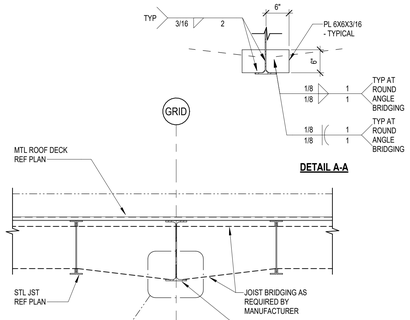


11 TYPICAL INTERIOR DETAIL AT K JOIST BEARING
NO SCALE

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.

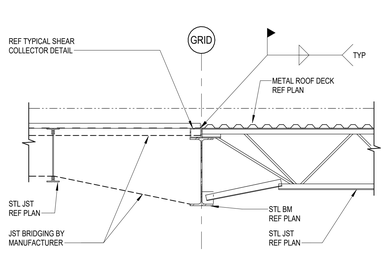


12 TYPICAL INTERIOR DETAIL AT LH AND DLH JOIST BEARING
NO SCALE



13 TYPICAL JOIST BRIDGING CONNECTION TO INTERIOR STEEL BEAM
NO SCALE

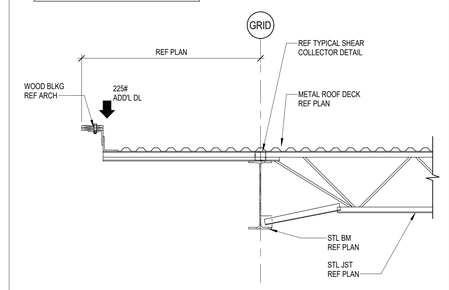
NOTES:
1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.



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



15 TYPICAL ROOF JOIST EXTENTION
NO SCALE

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

ISSUE FOR PROPOSAL

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

Kubala Engineers
P.O. Box 1000
Cypress, TX 77410
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
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

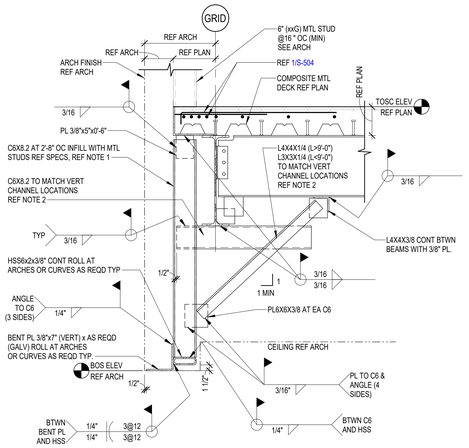
GENERAL STEEL NOTES AND TYP DETAILS

S-508

Plot Stamp:
12/18/2025 5:33:34 PM

COMPOSITE FRAMING DETAILS
S-512
FOR BLUEBEAM LABELINGDOOR:

0"
1"



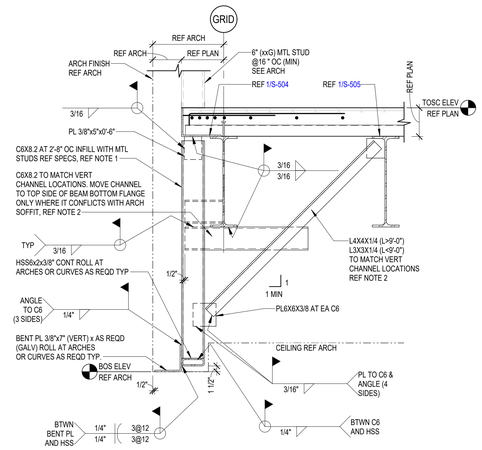
NOTES:

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"



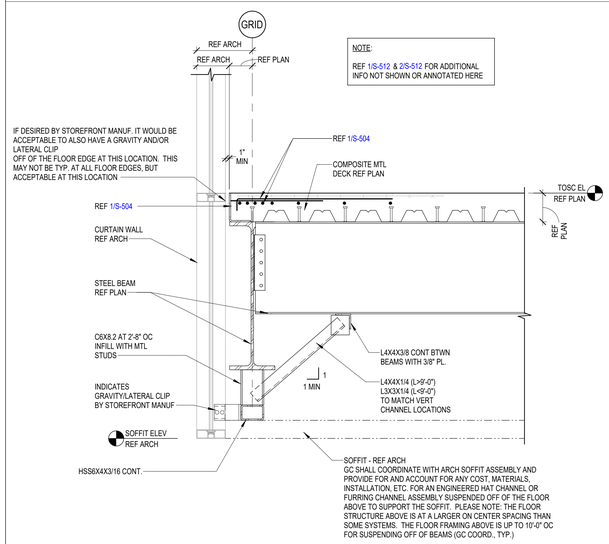
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3. AT JOISTS, PROVIDE JOIST CHORD STRENGTHENING BRACING WHERE BRACING IS NOT AT JOIST TOP CHORD PANEL POINT.

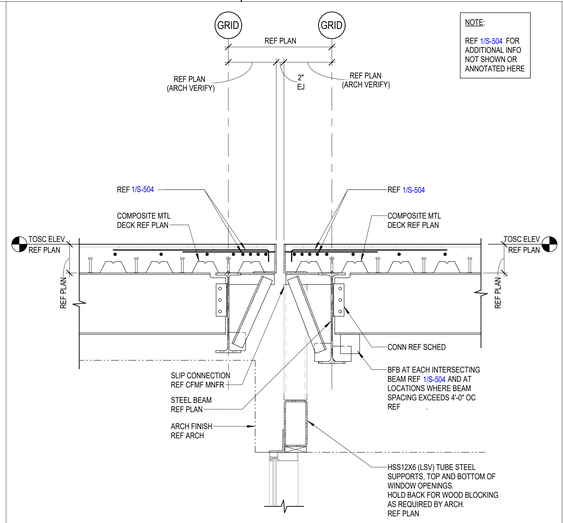
NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
REFER TO LOOSE LINTEL SCHEDULE.

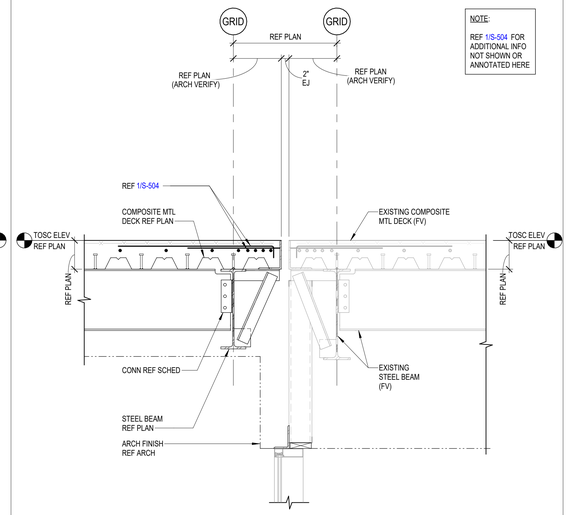
2 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"



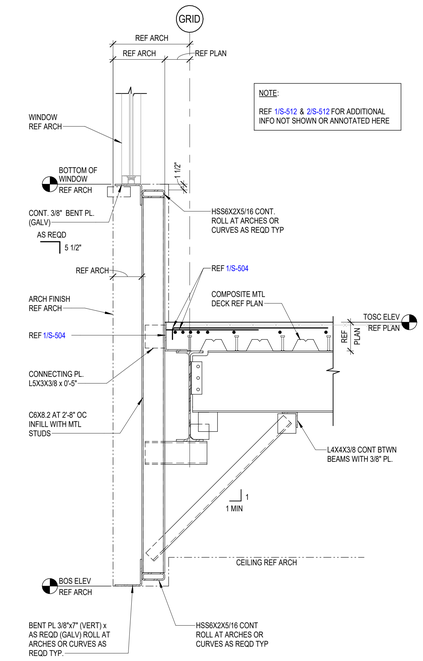
3 TYPICAL CURTAINWALL SUPPORT AT SECOND FLOOR
3/4" = 1'-0"



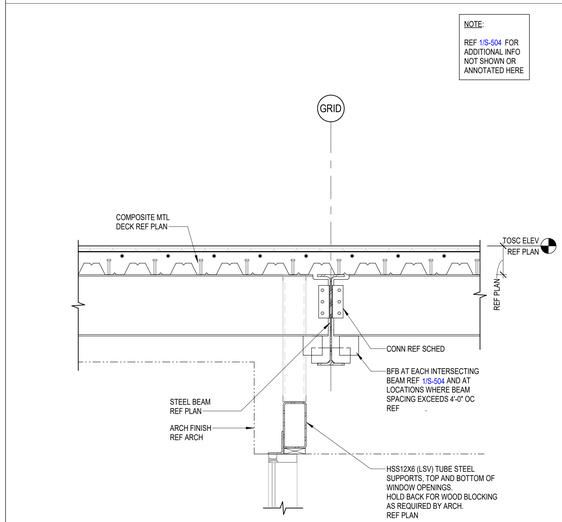
4 EXTERIOR FLOOR EDGE DETAIL AT EJ
3/4" = 1'-0"



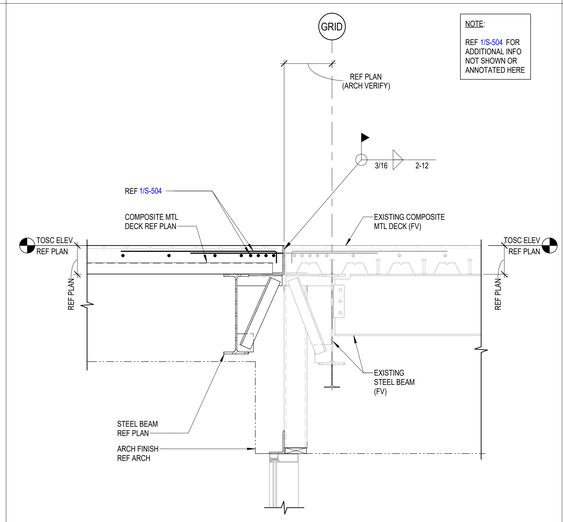
5 EXTERIOR FLOOR EDGE DETAIL AT EJ AT EXISTING
3/4" = 1'-0"



6 HANGING BRICK DETAIL
3/4" = 1'-0"



7 FRAMING SECTION
3/4" = 1'-0"



2

8 EXTERIOR FLOOR EDGE DETAIL AT EJ AT EXISTING
3/4" = 1'-0"

Plot Stamp:
12/18/2025 5:33:36 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

Kubala ENGINEERS
www.kubalaengineers.com
Firm #23612
TX: 832-541-7263

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
2	ADDENDUM 03	12/19/2025

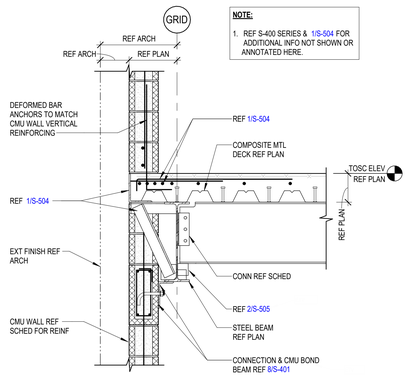
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

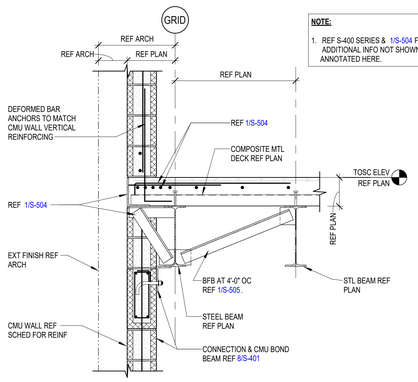
S-512

COMPOSITE FRAMING DETAILS
S-513
FOR BLUEBEAM LABEL/INDOOR:

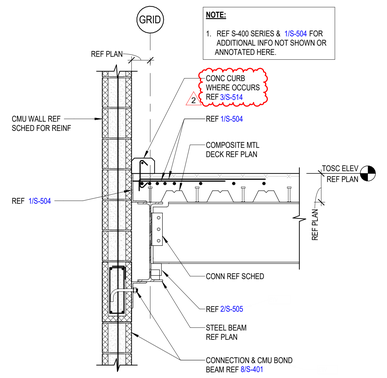
0"
1"



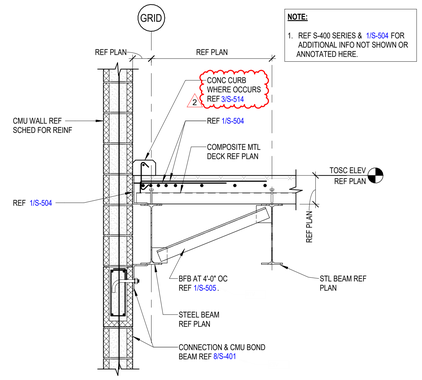
1 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



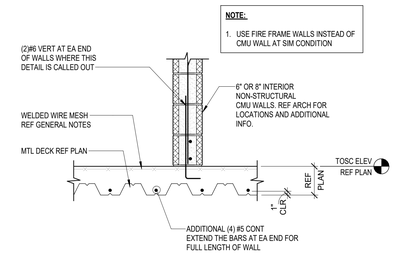
2 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



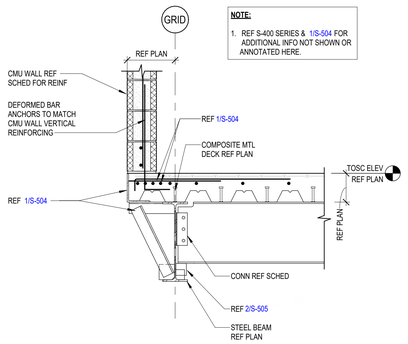
3 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



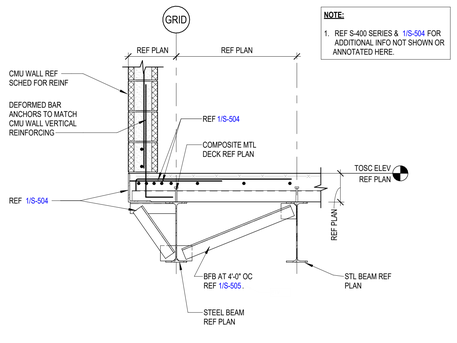
4 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



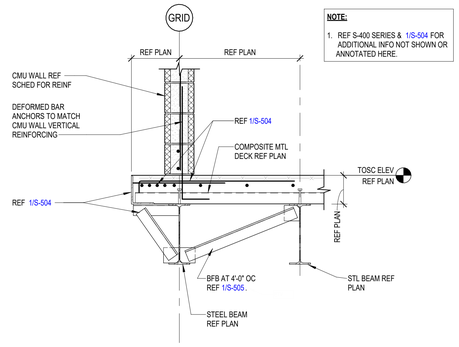
5 TYPICAL ADDITIONAL REINF UNDER INT. WALLS PARALLEL TO DECK SPAN
3/4" = 1'-0"



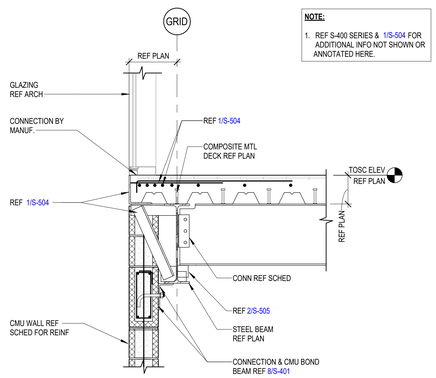
6 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



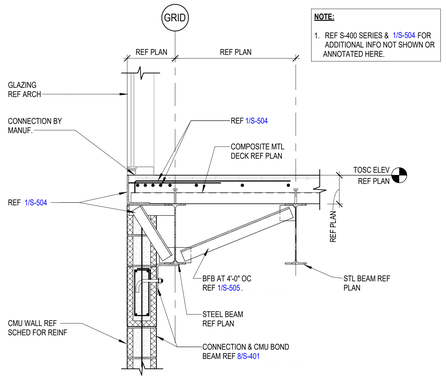
7 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



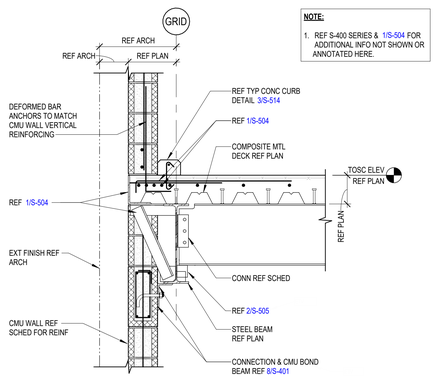
8 CMU BEARING ON STEEL BEAM DETAIL
3/4" = 1'-0"



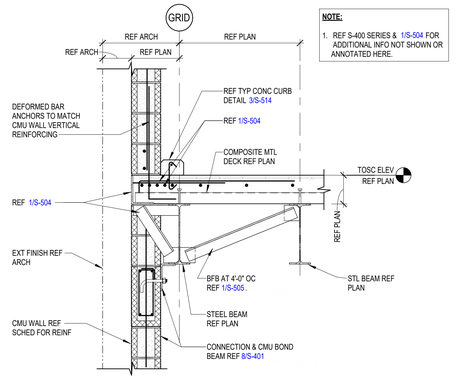
9 BEAM AT GLAZING AND CMU WALL
3/4" = 1'-0"



10 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



11 BEAM AT EXTERIOR CMU WALL W/CONC CURB
3/4" = 1'-0"



12 BEAM AT EXTERIOR CMU WALL W/CONC CURB
3/4" = 1'-0"

Plot Stamp:
12/18/2025 5:33:37 PM

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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
2	ADDENDUM 03	12/19/2025

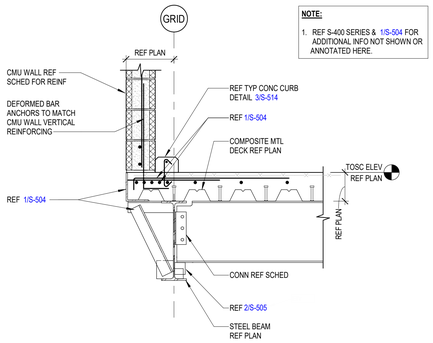
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DRAWN BY: CML

COMPOSITE FRAMING DETAILS

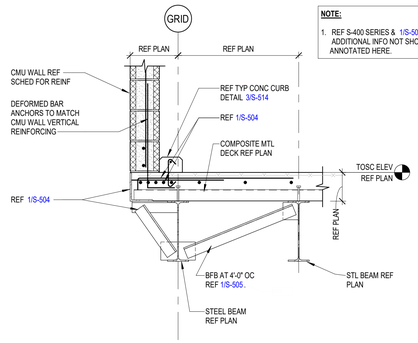
S-513

COMPOSITE FRAMING DETAILS
S-514
FOR BLUEBEAM LABELING/OCR:

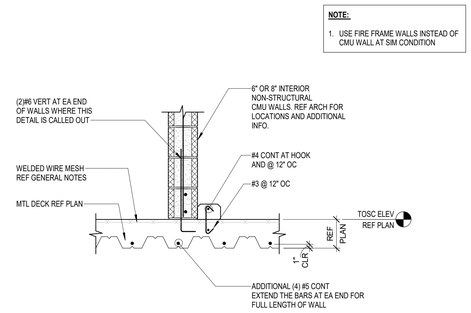
0"
1"



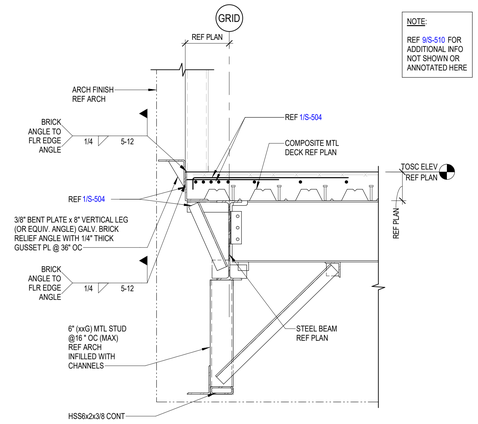
1 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



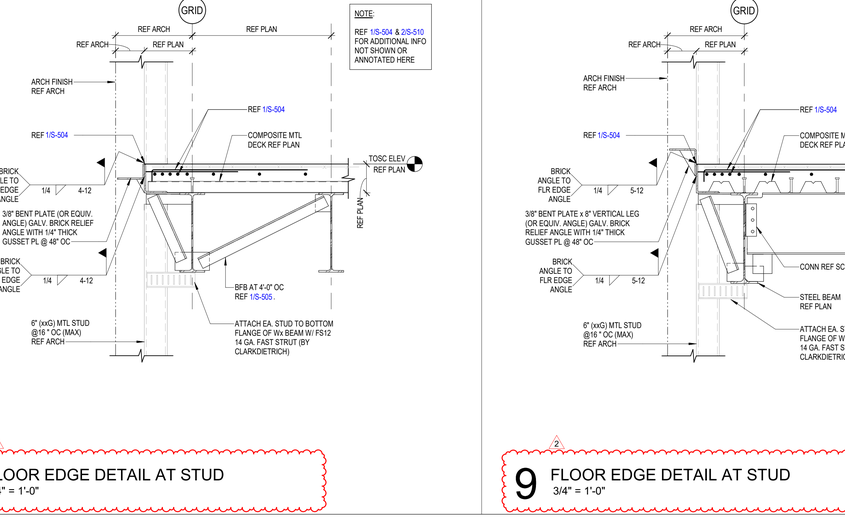
2 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



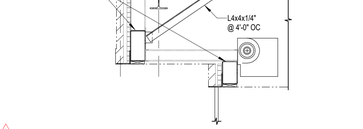
3 TYPICAL CURB AT COMPOSITE FLOOR
3/4" = 1'-0"



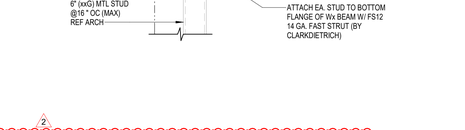
2
4 COMPOSITE FLOOR EDGE
3/4" = 1'-0"



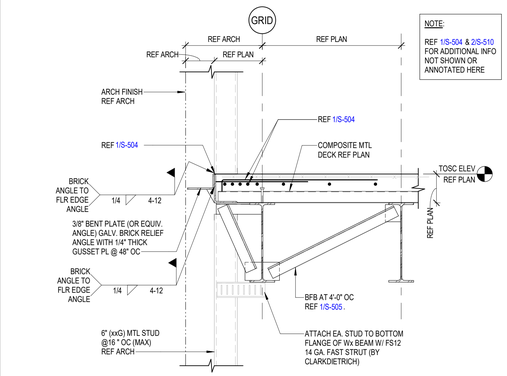
5 STAIR ON GEOFOAM TO ROOF
3/4" = 1'-0"



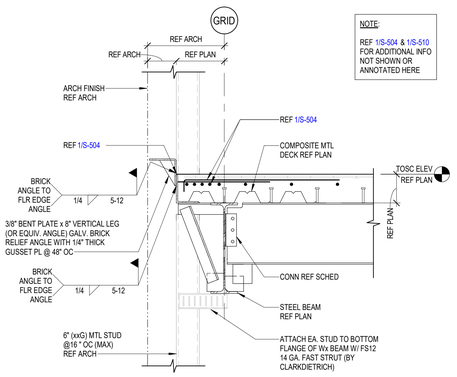
2
6 AREA B FRAMING SECTION
3/8" = 1'-0"



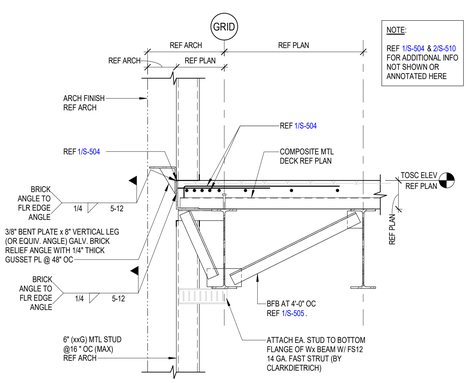
2
7 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



2
8 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



2
9 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



2
10 FLOOR EDGE DETAIL AT STUD
3/4" = 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
2	ADDENDUM 03	12/19/2025

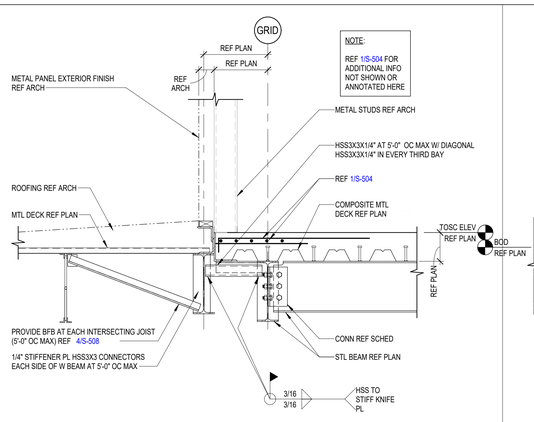
CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

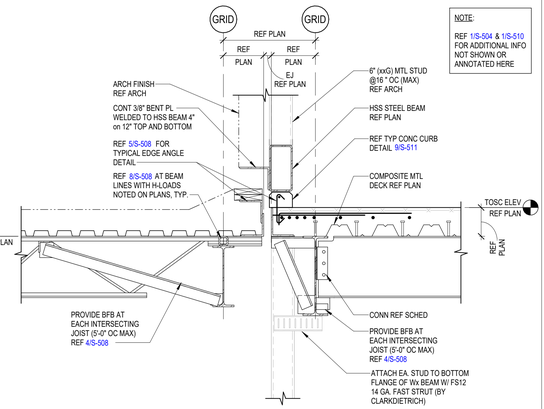
S-514

ROOF FRAMING DETAILS
S-526
FOR BLUEBEAM LABELING/OCR:

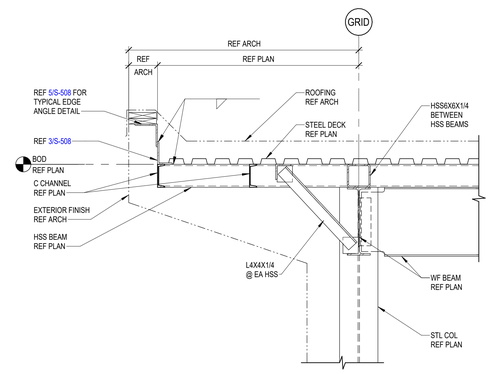
0"
1"



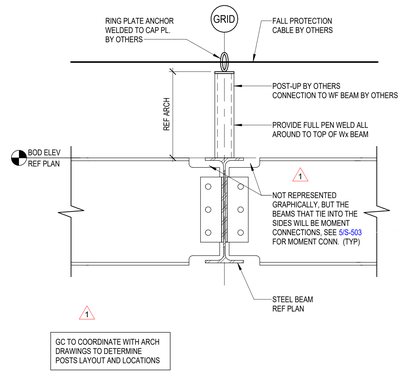
1 ROOF SECTION
3/4" = 1'-0"



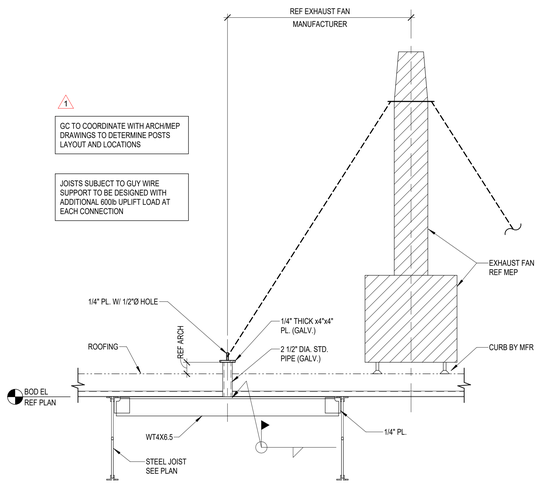
2 ROOF SECTION EXPANSION JOINT
3/4" = 1'-0"



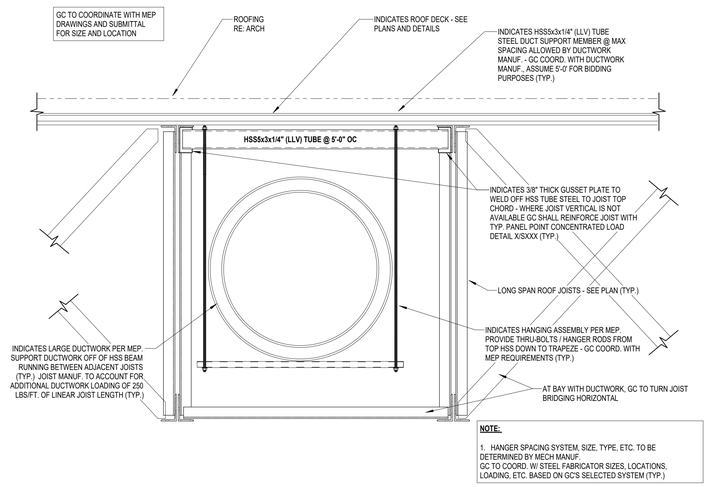
2
3 ROOF FRAMING SECTION
3/4" = 1'-0"



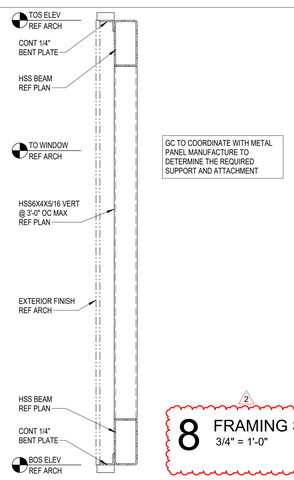
4 TYPICAL TIE-BACK POST
1 1/2" = 1'-0"



6 EXHAUST FAN TIE DOWN CONNECTION
3/4" = 1'-0"



7 MEP DUCTWORK SUPPORT BETWEEN JOISTS
3/4" = 1'-0"



2
8 FRAMING SECTION
3/4" = 1'-0"

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12/18/2025 5:33:39 PM

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Galena Park, TX 77547

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Galena Park ISD

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

ROOF FRAMING DETAILS

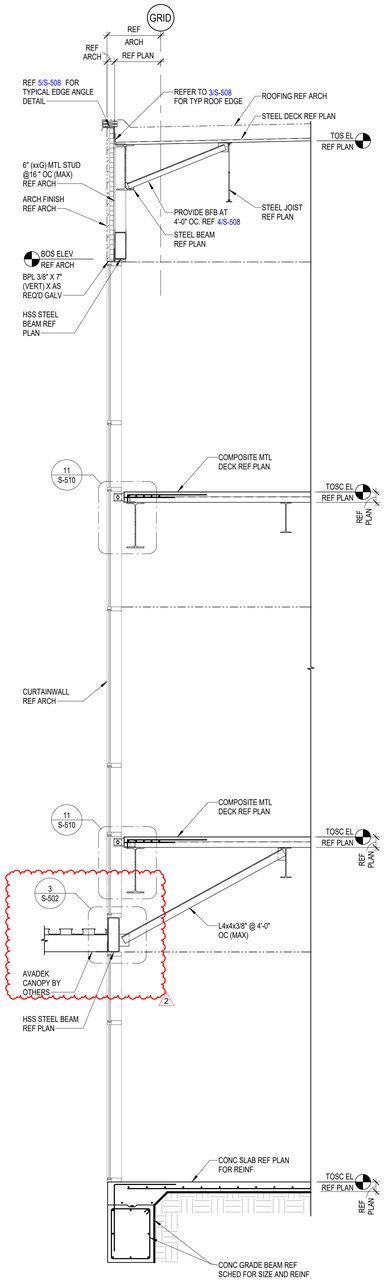
S-526

BUILDING SECTIONS
S-530
FOR BLUEBEAM LABELINGDOOR:

0"
1"

GC NOTES:

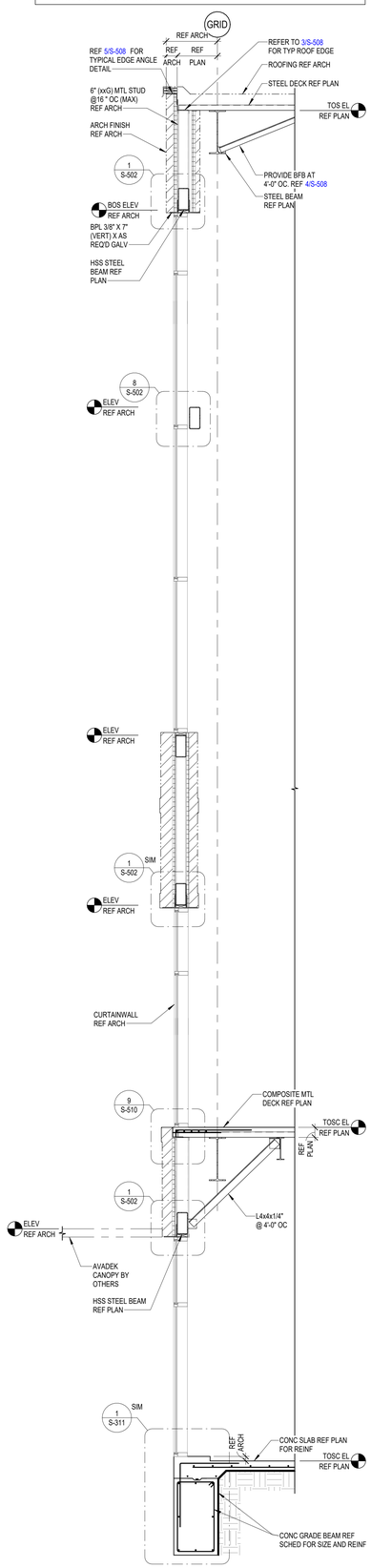
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE 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:

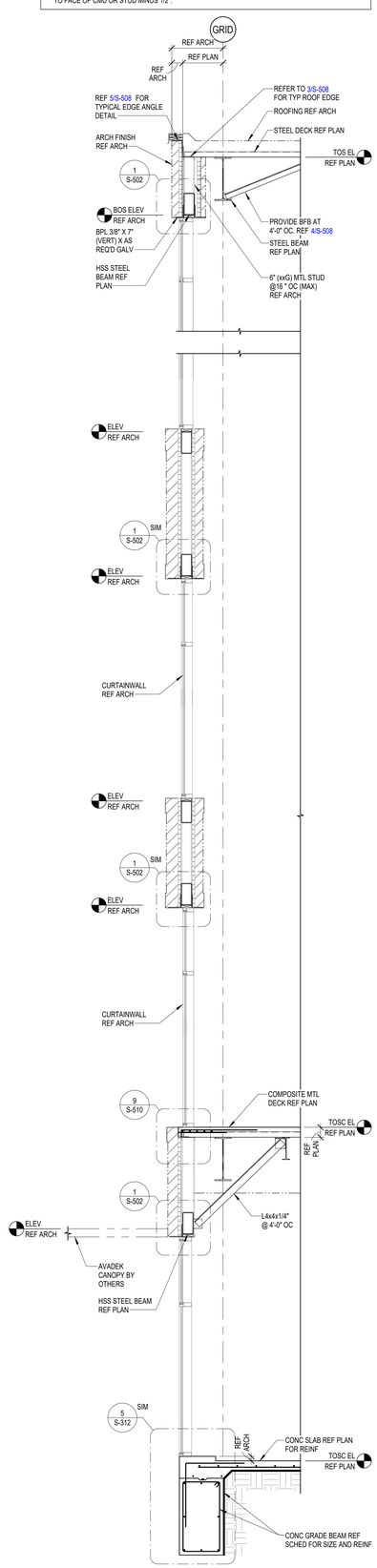
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2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
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2 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

GC NOTES:

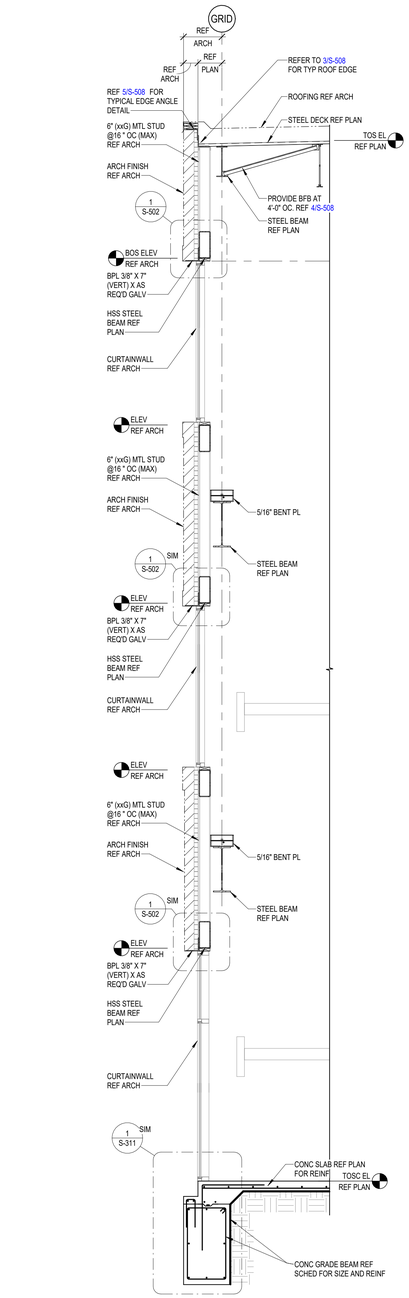
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
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3 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

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.
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4 AREA C AND E STAIR SECTION
3/8" = 1'-0"

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106120
LICENSED PROFESSIONAL ENGINEER
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
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

BUILDING SECTIONS

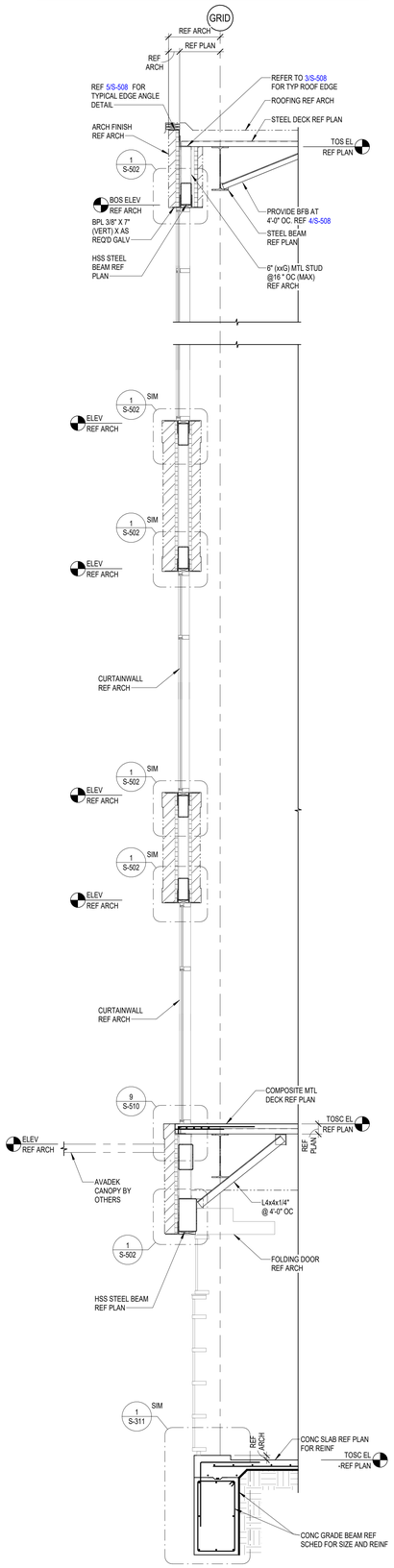
S-530

BUILDING SECTIONS
S-531
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GC NOTES:

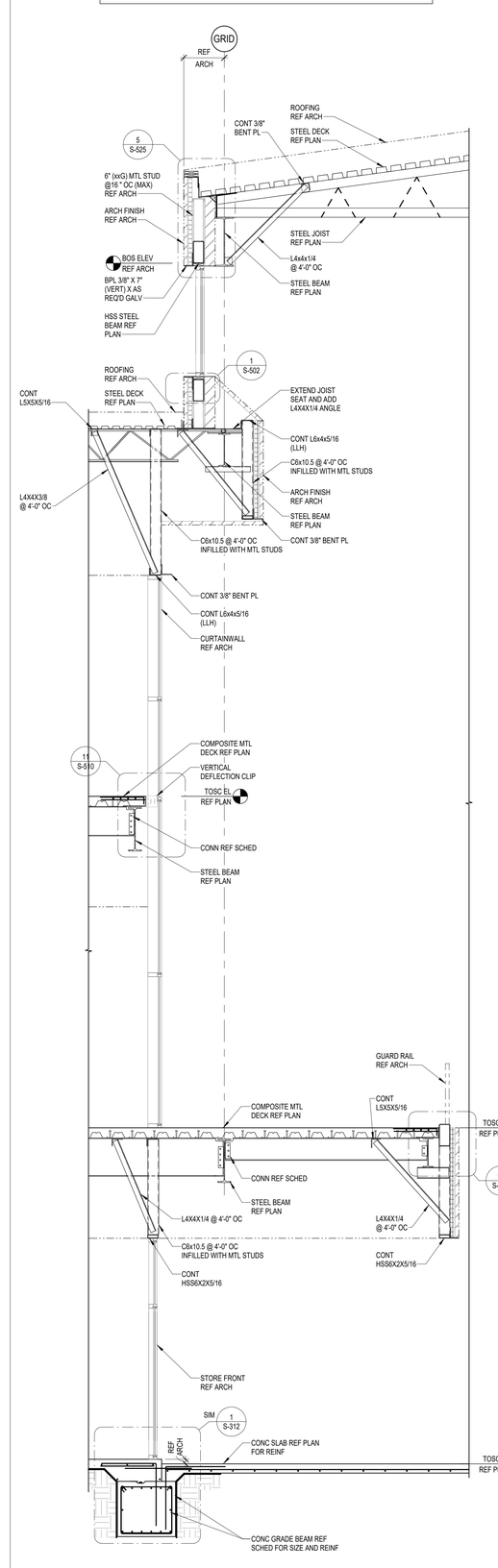
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
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1 AREA C AND E BUILDING SECTION
3/8" = 1'-0"

GC NOTES:

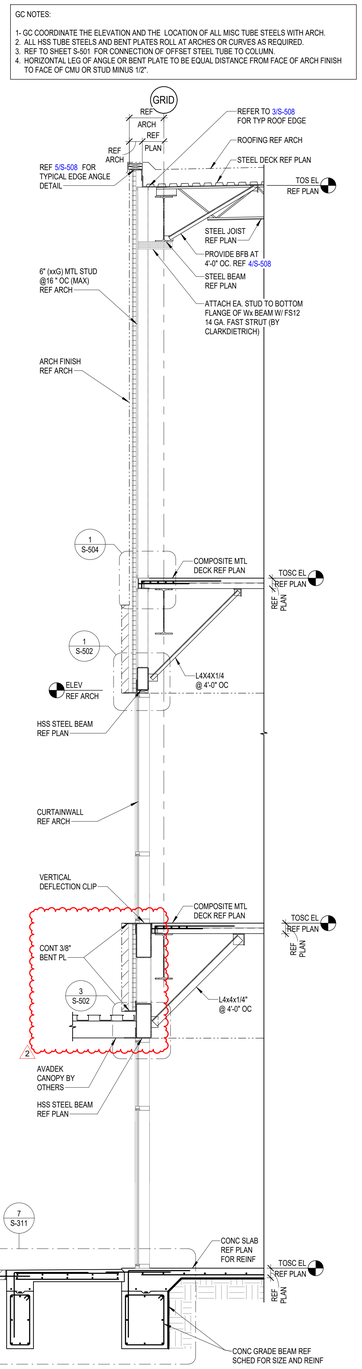
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
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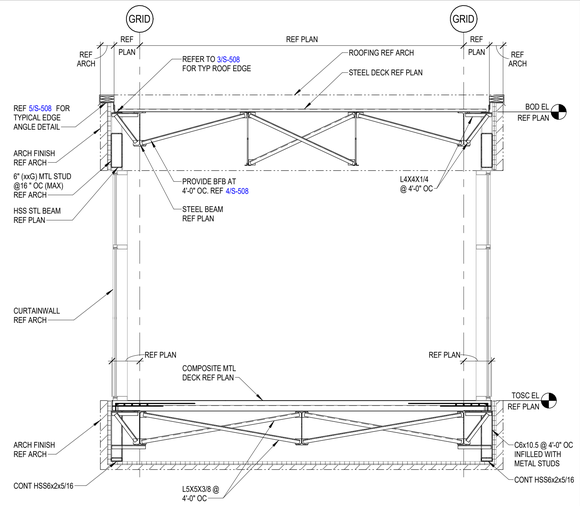
2 BALCONY SECTION
3/8" = 1'-0"

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.
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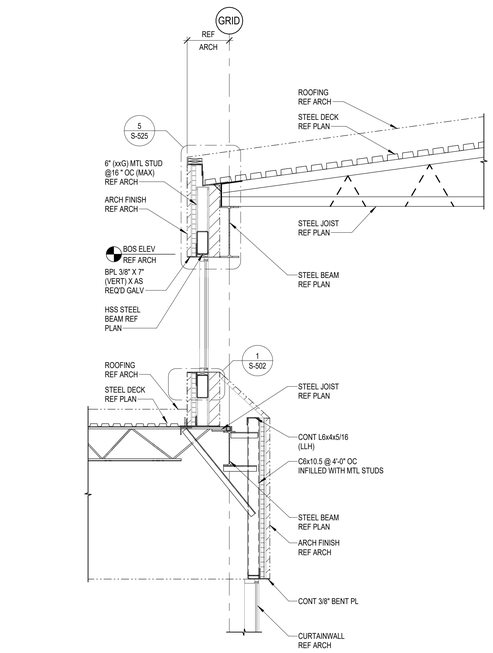
3 AREA B BUILDING SECTION
3/8" = 1'-0"



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.
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5 FRAMING SECTION
3/8" = 1'-0"

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Kubala ENGINEERS
Phone: 832-967-0974
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
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

BUILDING SECTIONS

S-531

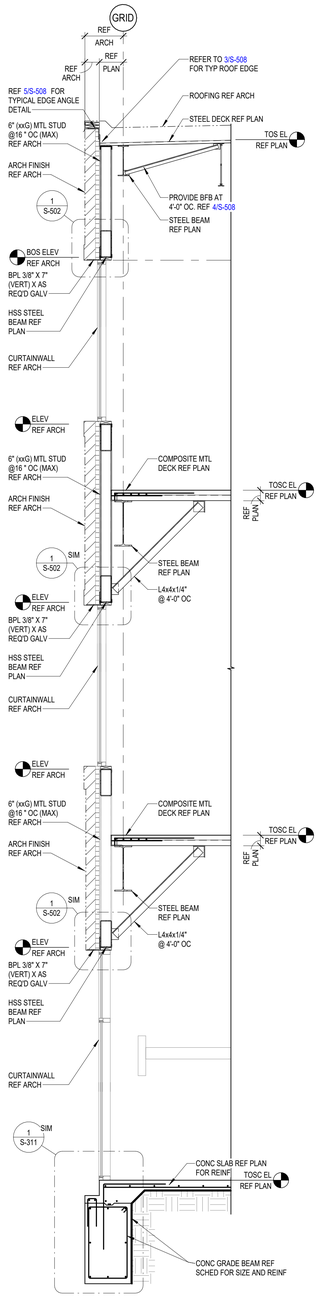
Plot Stamp:
12/18/2025 5:33:43 PM

BUILDING SECTIONS
S-532
FOR BLUEBEAM LABELING/DOOR:

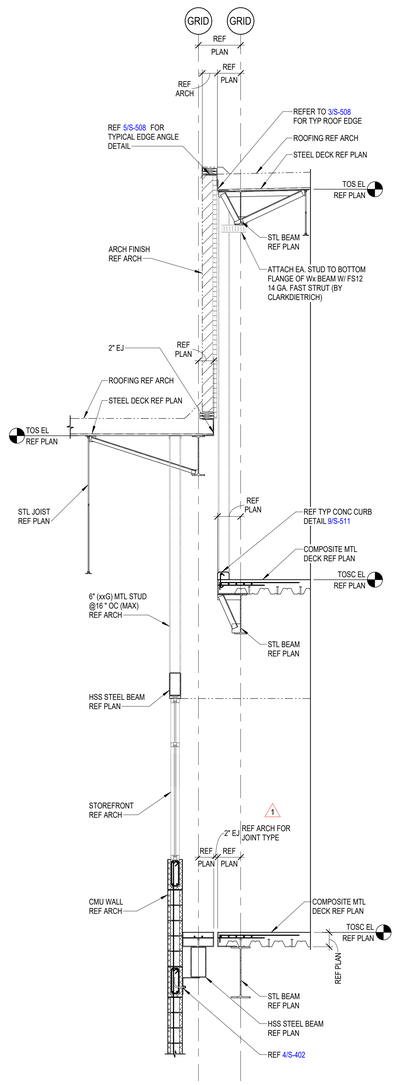
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GC NOTES:

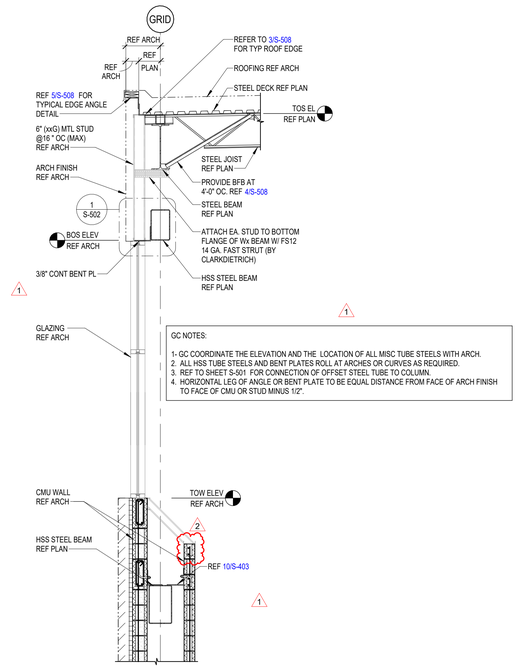
1- GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH.
2. ALL HSS TUBE STEELS AND BENT PLATES ROLL AT ARCHES OR CURVES AS REQUIRED.
3. REF TO SHEET S-501 FOR CONNECTION OF OFFSET STEEL TUBE TO COLUMN.
4. HORIZONTAL LEG OF ANGLE OR BENT PLATE TO BE EQUAL DISTANCE FROM FACE 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"



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".

3 BUILDING SECTION AT AREA A GYM
3/8" = 1'-0"

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Kubala ENGINEERS
www.kubalaengineers.com
Phone: 832-595-4774
TX. REG. NO. F-23612

Galena Park ISD
EXCELLENCE IN ALL FORMS OF SPORT

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
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

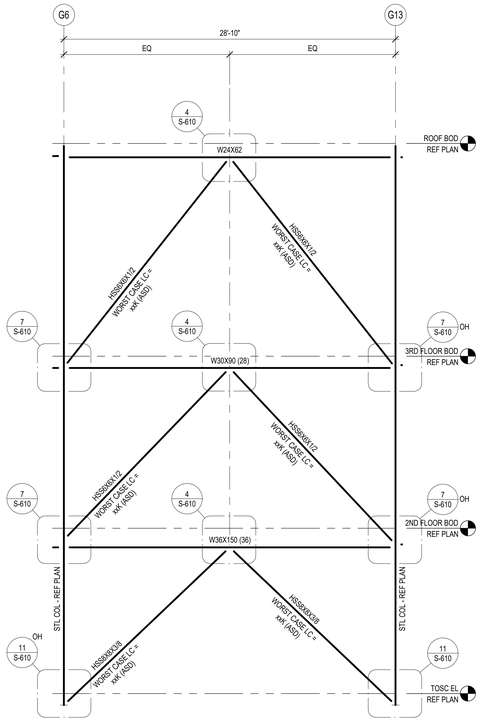
BUILDING SECTIONS

S-532

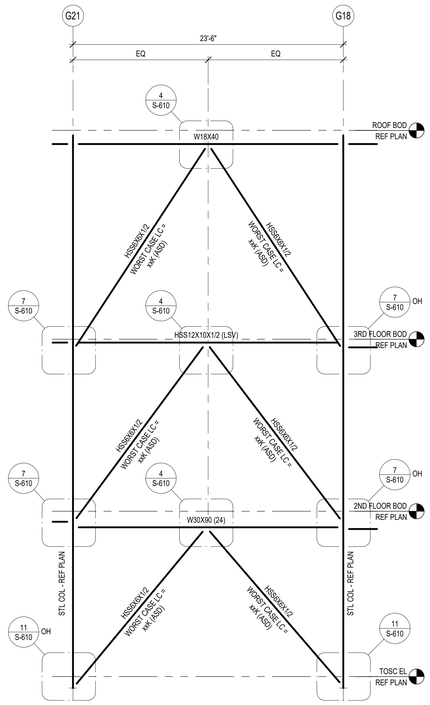
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TYPICAL WIND BRACING ELEVATIONS - AREA B
S-601
FOR BLUEBEAM LABELING/DOOR:

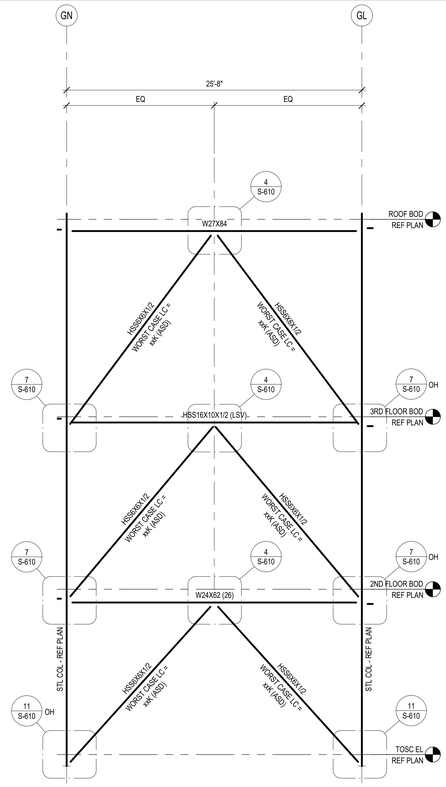
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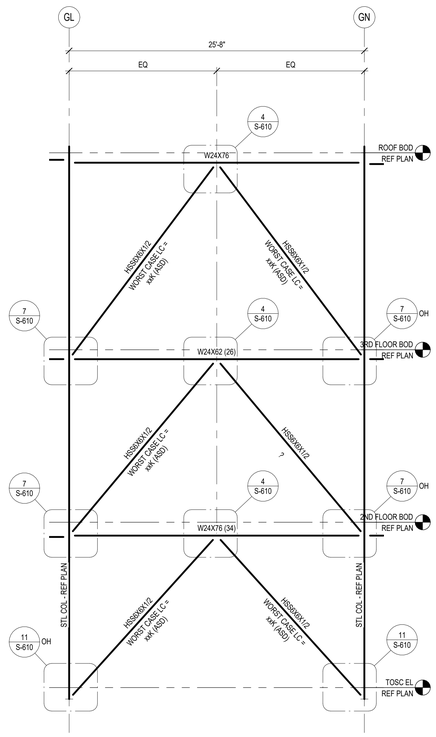
1 BRACE ELEVATION
3/16" = 1'-0"



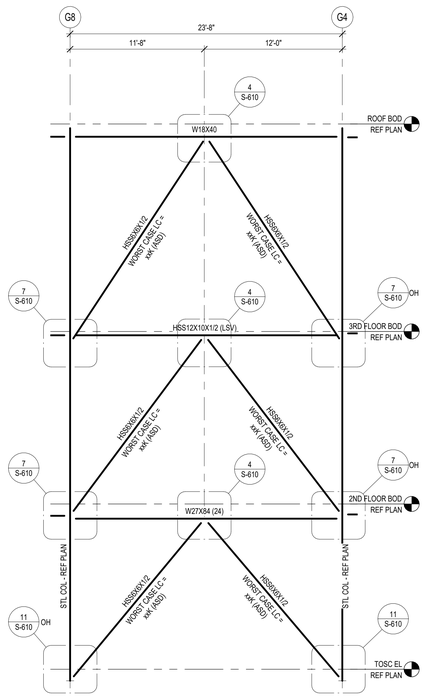
2 BRACE ELEVATION
3/16" = 1'-0"



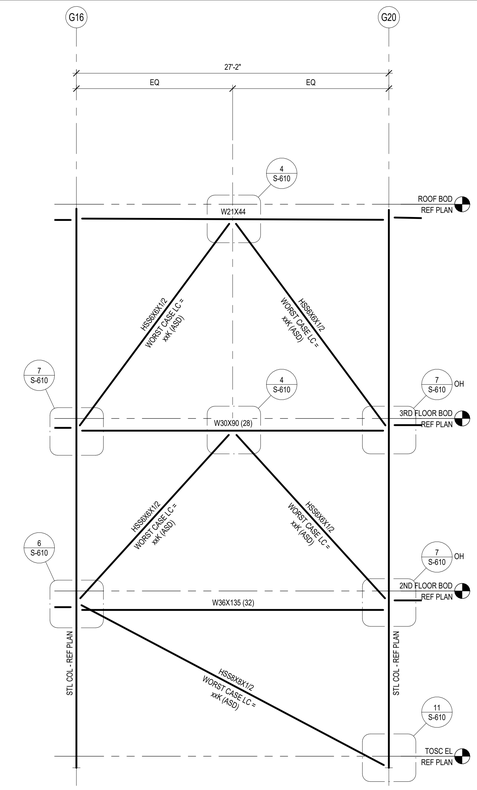
3 BRACE ELEVATION
3/16" = 1'-0"



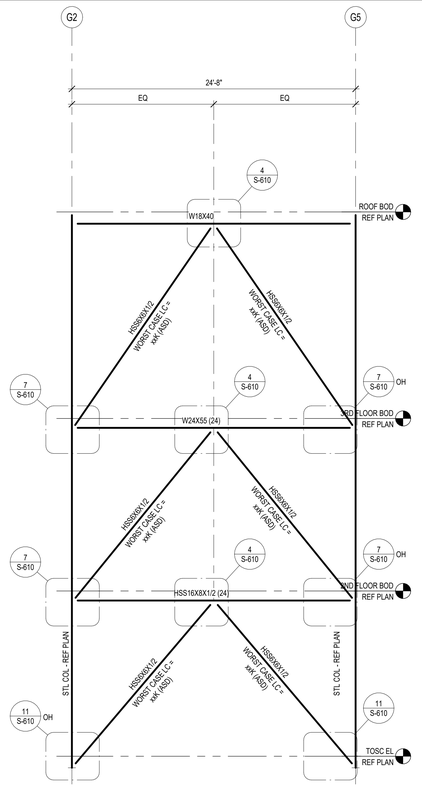
2
4 BRACE ELEVATION
3/16" = 1'-0"



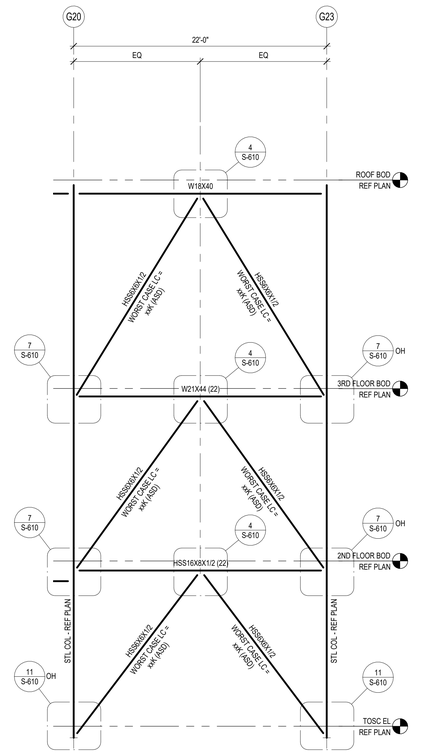
5 BRACE ELEVATION
3/16" = 1'-0"



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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www.kubalaengineers.com
TBPE: F-23612
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
2	ADDENDUM 03	12/19/2025

CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA B

S-601

Plot Stamp:
12/18/2025 5:33:47 PM

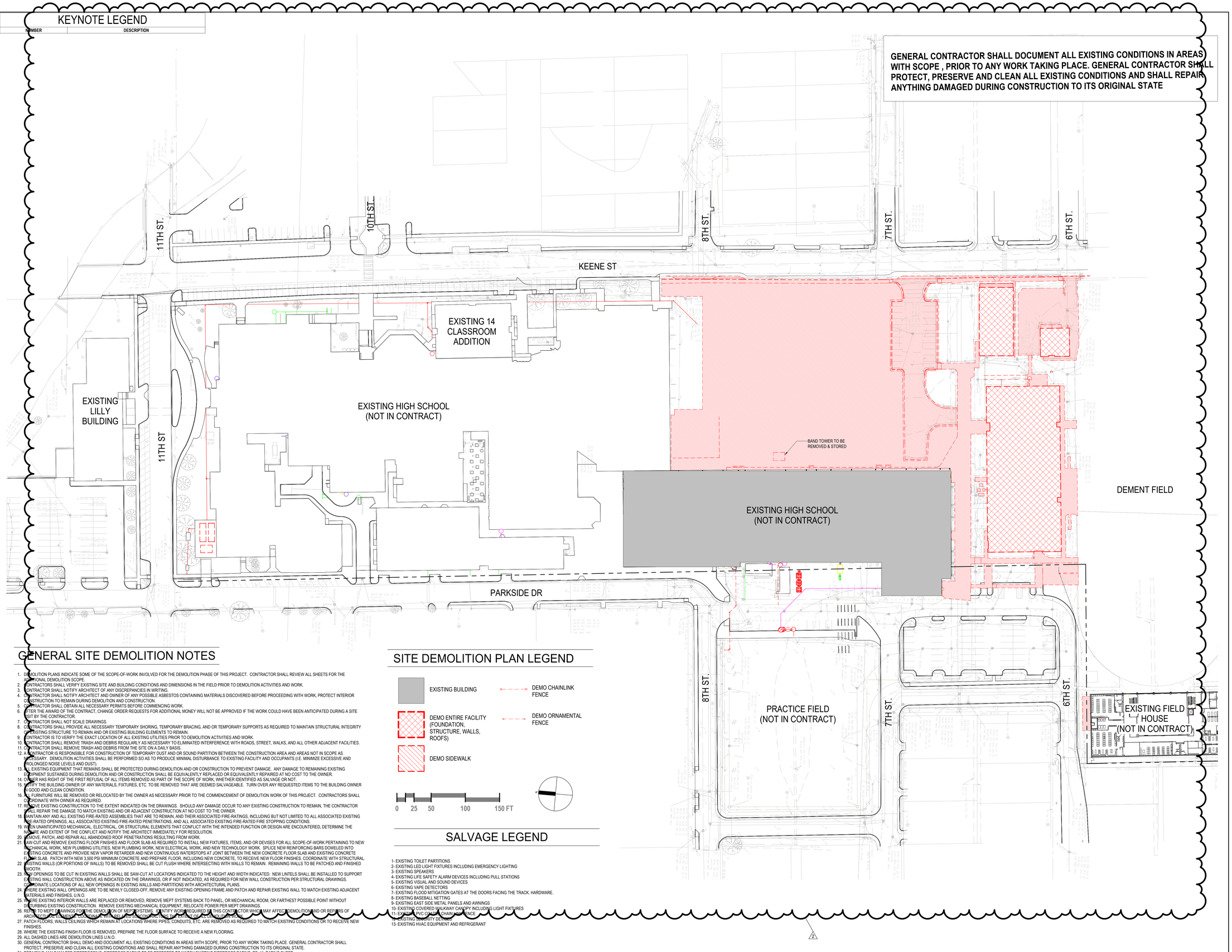
DEMOLITION SITE PLAN
ASD-101
FOR BLUEBEAM LABELING/DOOR:

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. RECEIVE 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 RELEVANT CONSTRUCTION TRADES AS NECESSARY TO ACHIEVE THIS 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"

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12/18/2025 4:21:56 PM

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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY REGISTERED ARCHITECT 25572

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

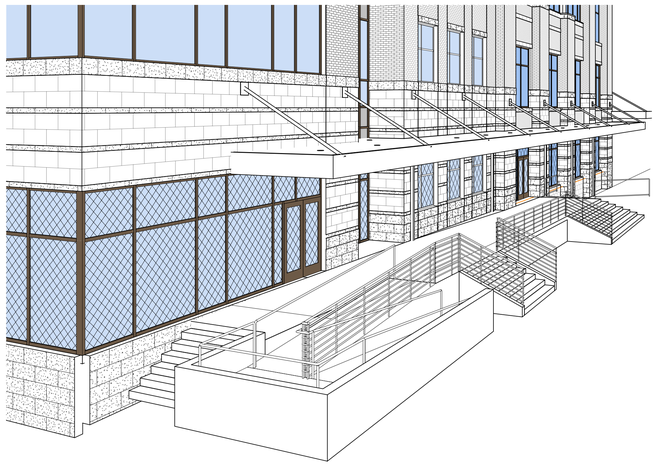
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DEMOLITION SITE PLAN

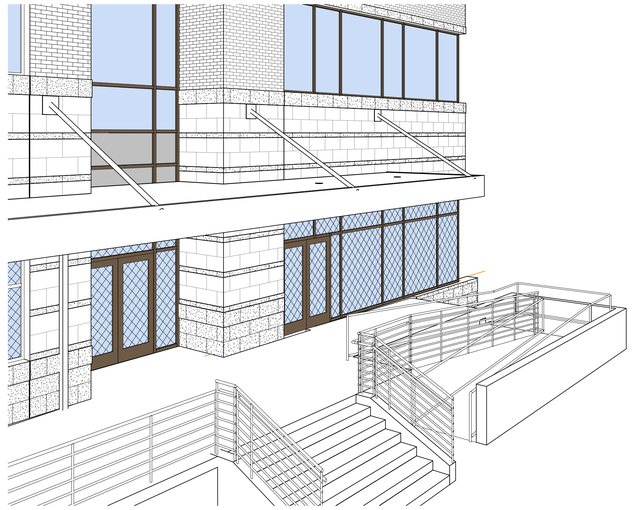
ASD-101

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

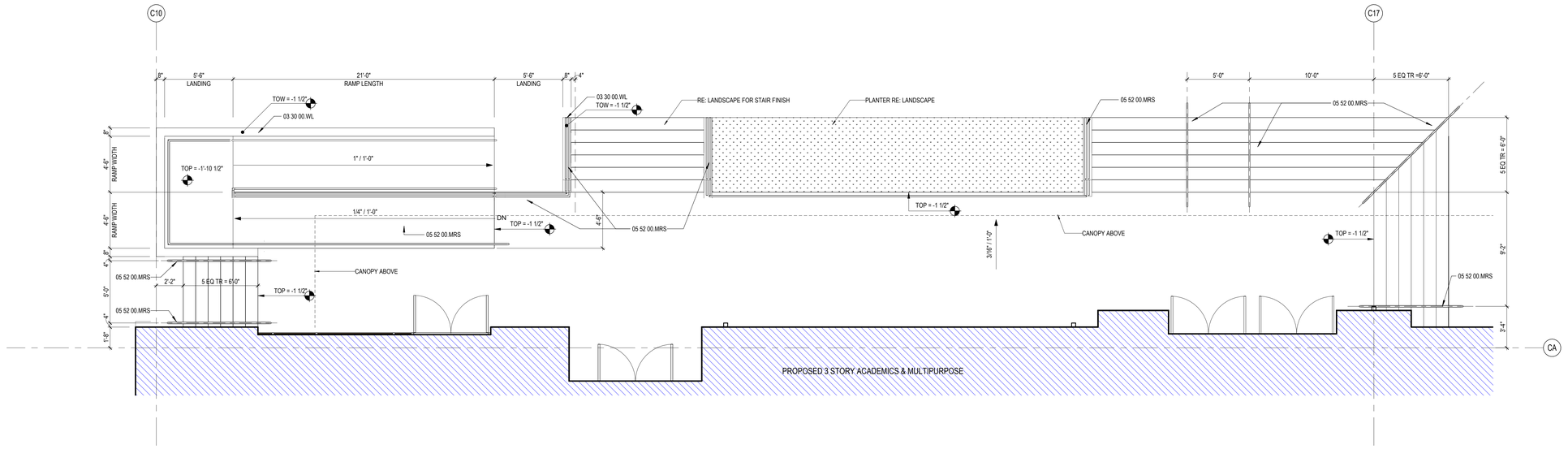
NUMBER	DESCRIPTION
03 30 00.WL	CAST-IN-PLACE CONCRETE WALL
05 52 00.MRS	STAINLESS STEEL RAILING SYSTEM

GENERAL SITE PLAN NOTES

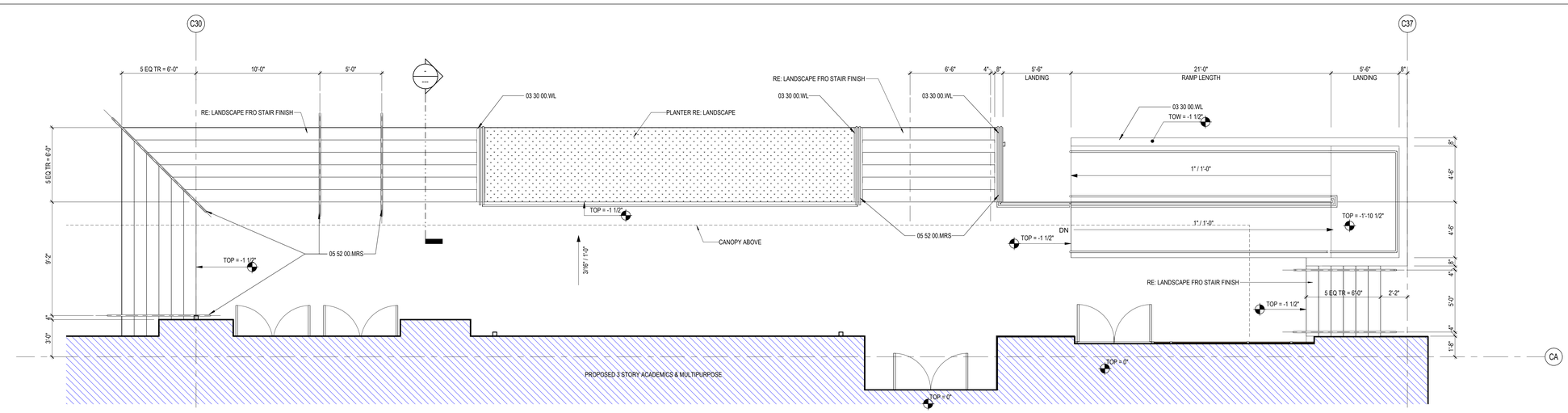
1. REFER TO CIVIL DOCUMENTS.
2. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND/OR STRUCTURAL DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, 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 12 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"

Plot Stamp:
12/18/2025 4:39:51 PM

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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
2	ADD 03	2025/12/19

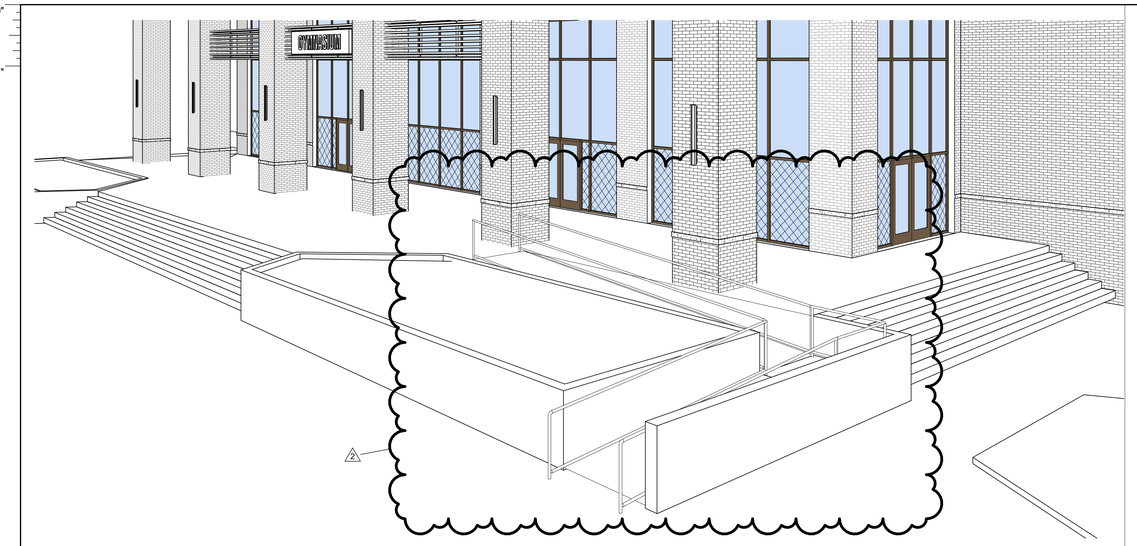
CHECKED BY: Checker
DRAWN BY: Author

ENLARGED SITE PLANS

AS-402

ENLARGED SITE PLANS
AS-403
FOR BLUEBEAM LABELING/DOOR:

0"
1"



02 PERSPECTIVE - ATHLETIC RAMP / STEPS

SITE PLAN LEGEND

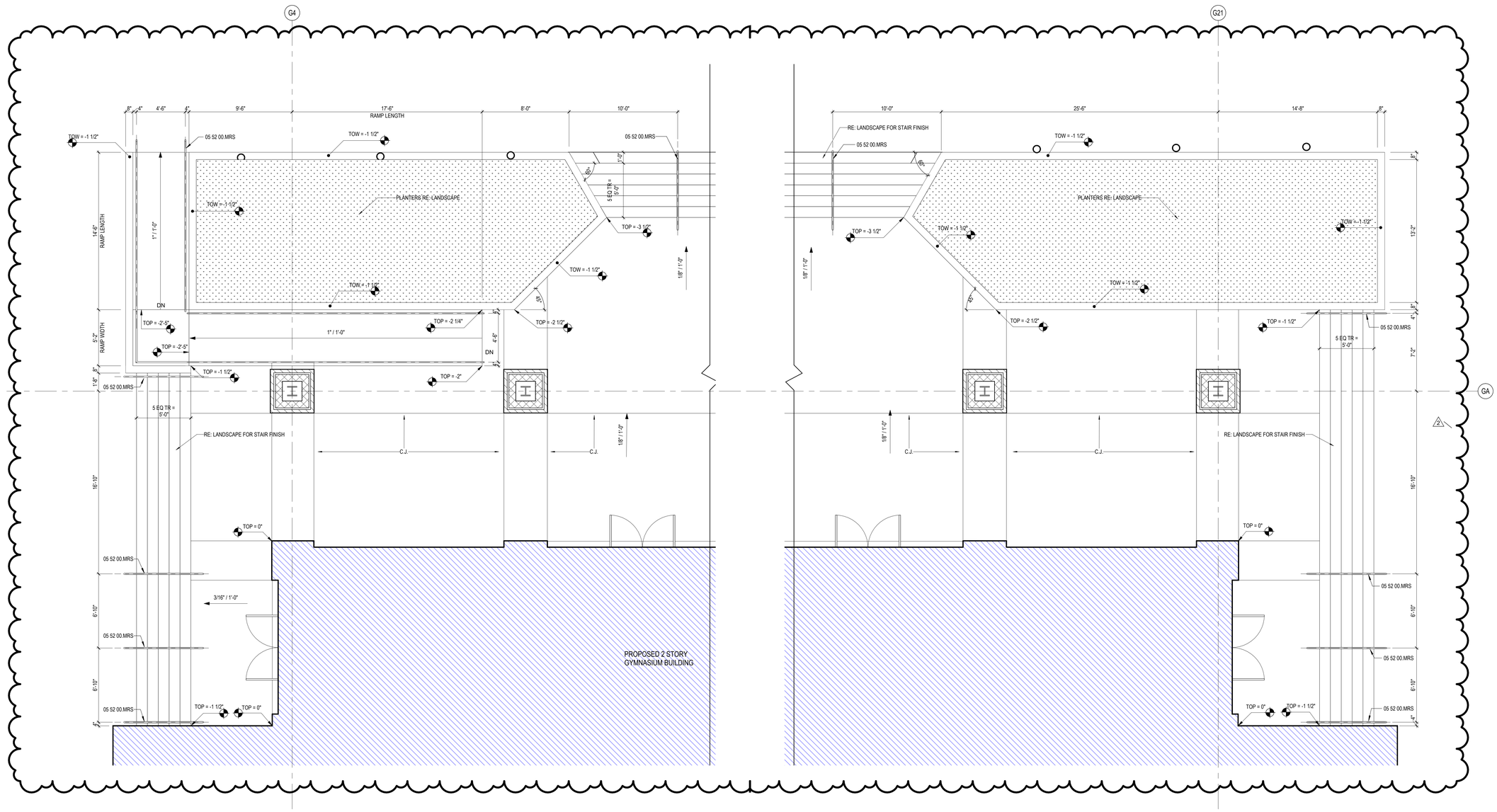
- EXISTING BUILDING TO REMAIN (N.I.C.)
- PROPOSED BUILDING / ADDITION
- SOD OR PLANTING, SEE LANDSCAPE DRAWINGS
- CONCRETE SIDEWALK, SEE CIVIL / LANDSCAPE DRAWINGS
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- PROPERTY LINE
- EASEMENT LINE / SETBACK
- LOW — LIMIT OF WORK
- FIRE LANE

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.
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.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.MRS	STAINLESS STEEL RAILING SYSTEM



01 ENLARGED SITE PLAN - ATHLETIC SOUTH RAMP / STEPS
1/4" = 1'-0"

Plot Stamp:
12/18/2025 4:21:23 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
29572
STATE OF TEXAS

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
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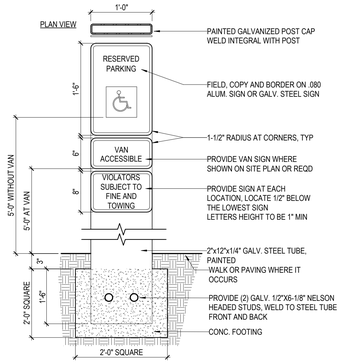
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ENLARGED SITE PLANS

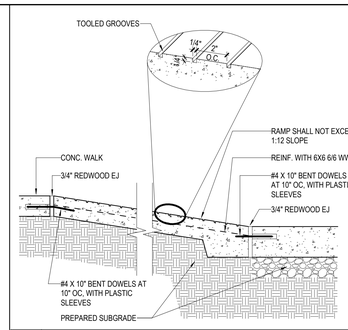
AS-403

SITE DETAILS
AS-711
FOR BLUEBEAM LABELINGDOOR:

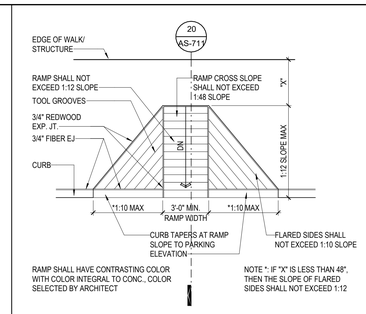
0"
1"



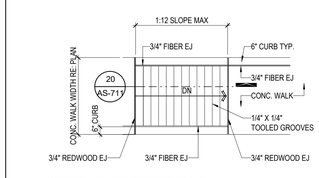
15 ACCESSIBLE PARKING SIGN
1" = 1'-0"



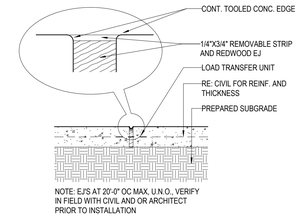
20 ACCESSIBLE CURB RAMP SECTION
1" = 1'-0"



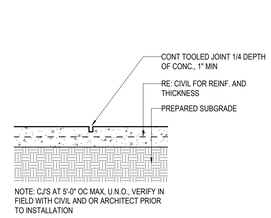
19 ACCESSIBILITY CURB RAMP
1/4" = 1'-0"



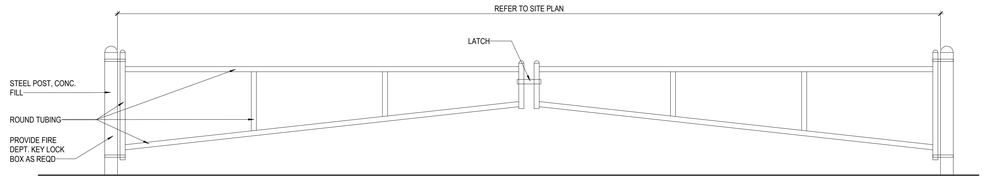
18 ACCESSIBLE RAMP PLAN
1/4" = 1'-0"



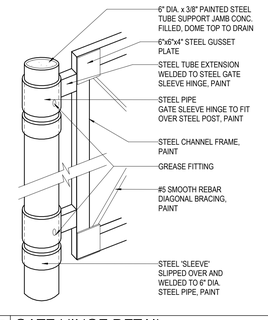
17 CONCRETE WALK EJ
1" = 1'-0"



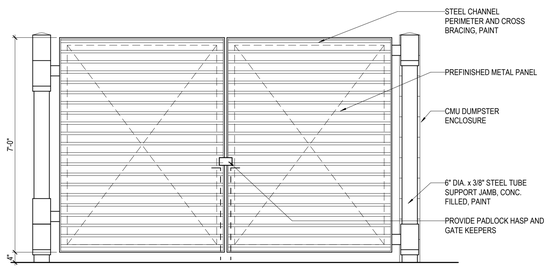
16 CONCRETE WALK CJ
1" = 1'-0"



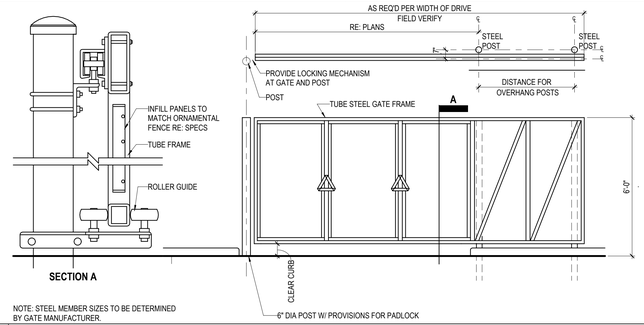
14 VEHICULAR GATE
1/2" = 1'-0"



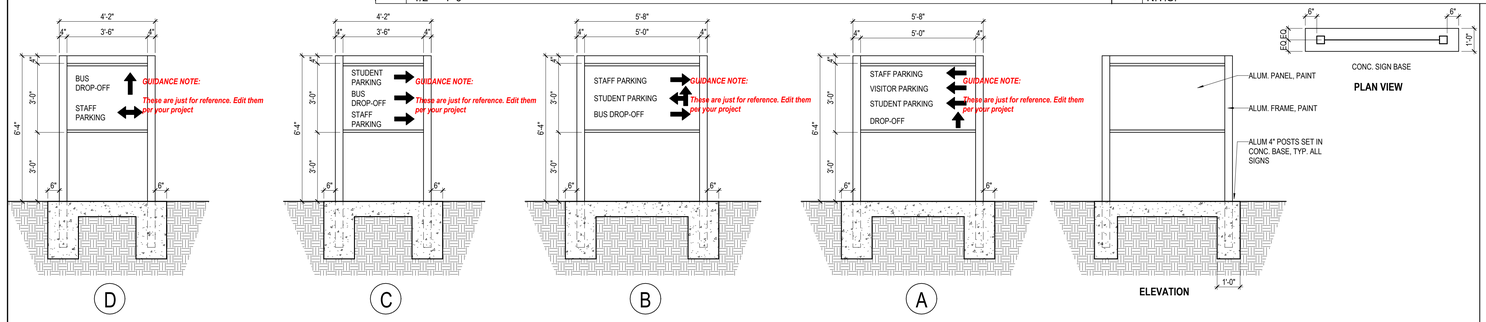
13 GATE HINGE DETAIL
1 1/2" = 1'-0"



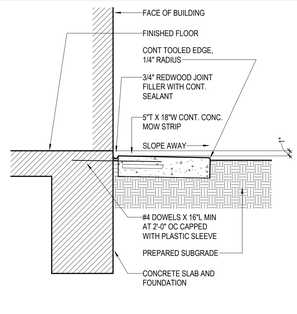
11 DUMPSTER ENCLOSURE FRONT ELEVATION
1/2" = 1'-0"



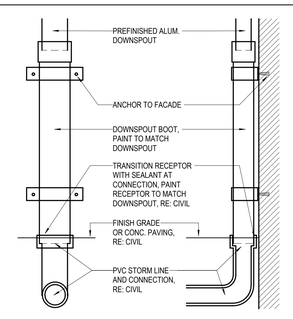
10 ROLLING GATE
N.T.S.



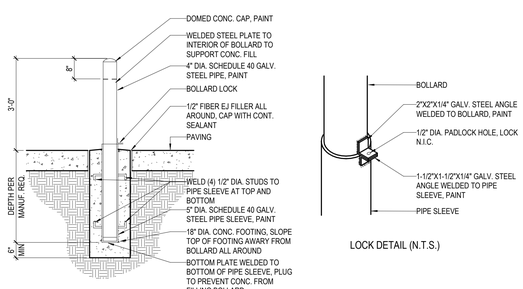
08 SITE DIRECTIONAL SIGNAGE 01
3/8" = 1'-0"



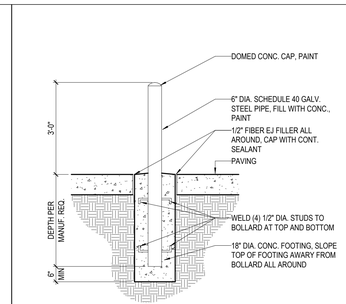
07 MOW STRIP AT EDGE OF BUILDING
1" = 1'-0"



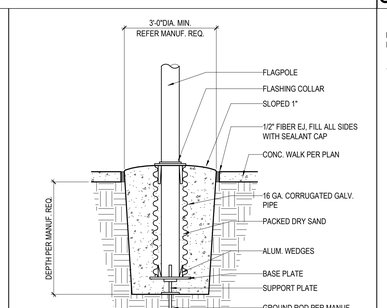
06 DOWNSPOUT BOOT
1" = 1'-0"



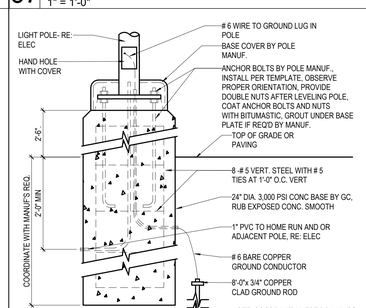
05 BOLLARD - REMOVABLE
1/2" = 1'-0"



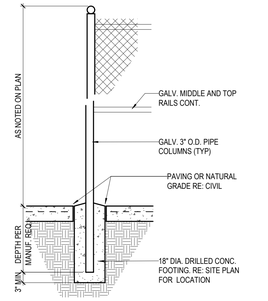
04 BOLLARD
1/2" = 1'-0"



03 FLAGPOLE BASE
1/2" = 1'-0"



02 LIGHT POLE BASE
3/4" = 1'-0"



01 FENCE DETAIL
1/2" = 1'-0"

Plot Stamp:
12/18/2025 6:41:24 PM

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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

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN KEPCIOSKY
STATE OF TEXAS
25572

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

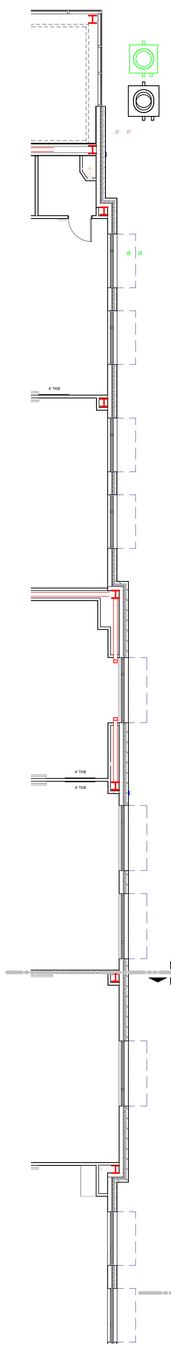
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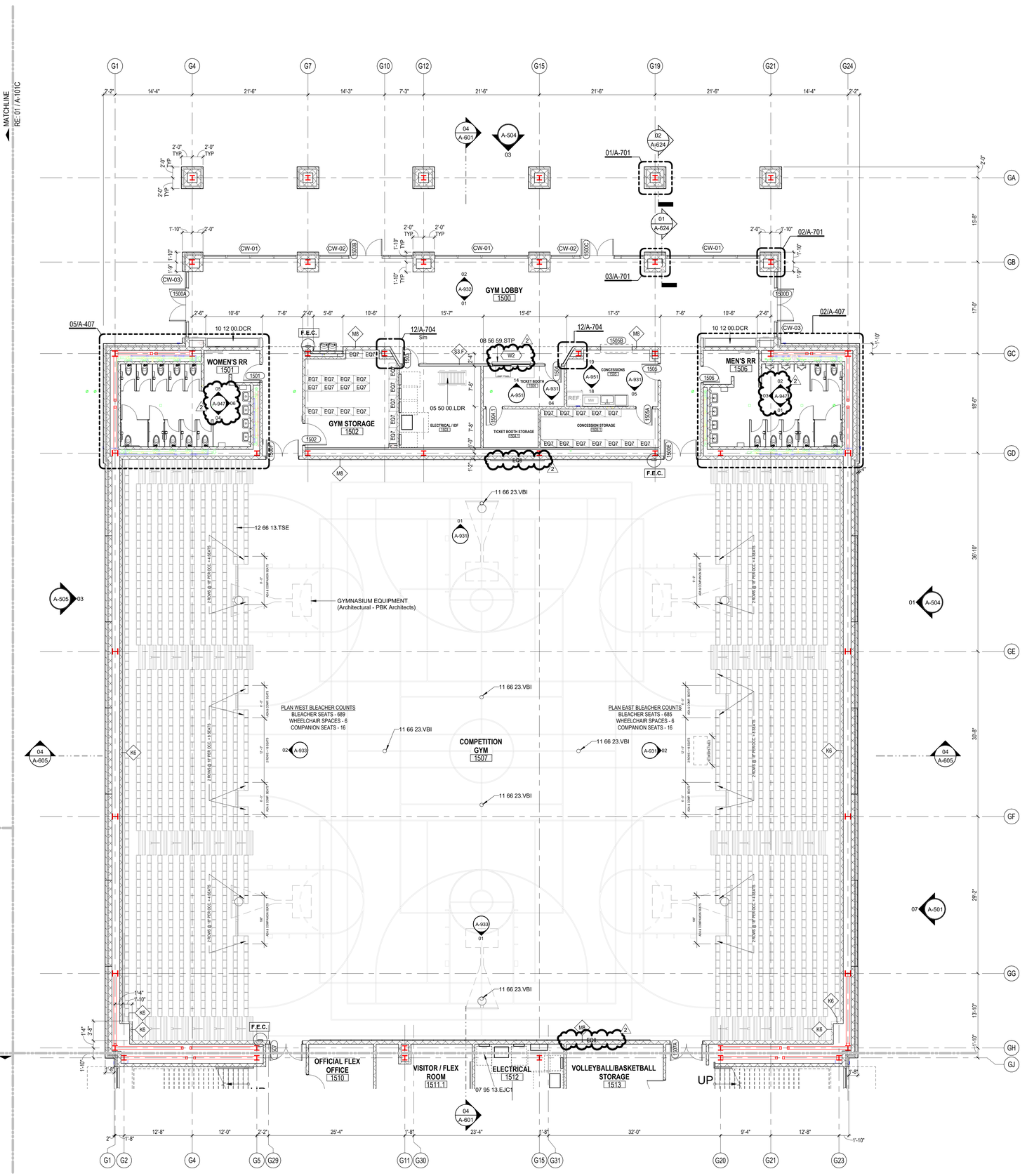
SITE DETAILS

AS-711

LEVEL 1 - AREA A FLOOR PLAN
A-101A
FOR BLUEBEAM LABELING/DOOR:

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-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
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 5'-5" H	-	Solid steel	CFCI	31
EQ8	Competition Gym Scoreboard	Nevco	2772-RL-W	OFCI	2

2

FLOOR PLAN LEGEND

- **10 65 13.APSSM** 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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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 — STATE OF TEXAS — 25572

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

DRAWING HISTORY

No.	Description	Date
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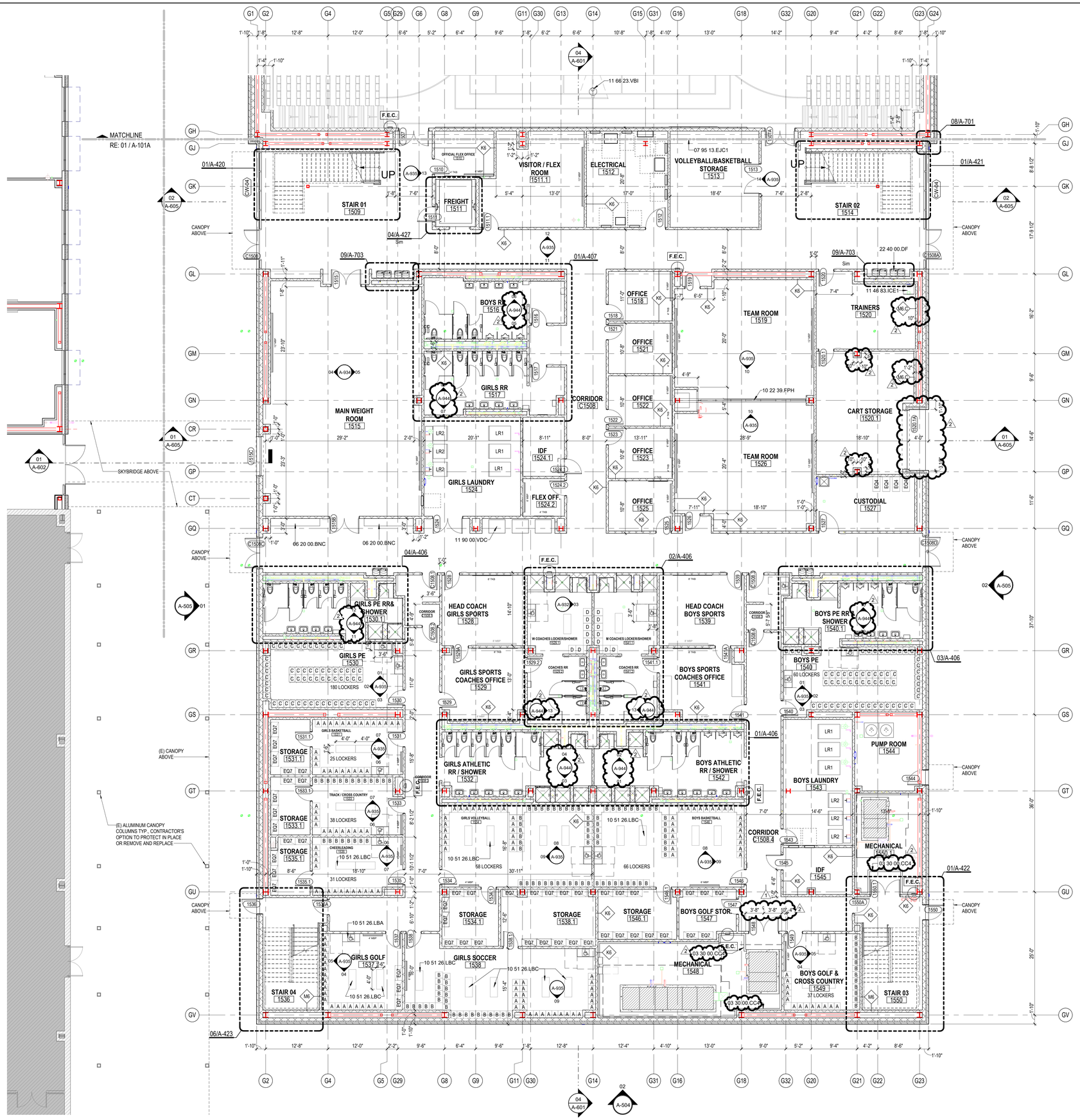
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA A FLOOR PLAN

A-101A

Plot Stamp:
12/18/2025 6:10:00 PM

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"

Plot Stamp:
12/18/2025 6:10:11 PM

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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17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
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22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
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	-	Solid steel	CFCI	4
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 6'-5" H	-	Solid steel	CFCI	48
EQ8	Competition Gym Scoreboard	Nevco	2772-RL-W	OFCI	1
LR1	Gas Dryer - 55 lbs Capacity	HUEBSCH	HT075NM81G1W03	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"

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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
December 5, 2025
PROJECT NUMBER
240539
DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA B FLOOR PLAN

A-101B

0"
1"

LEVEL 1 - AREA C FLOOR PLAN
A-101C
FOR BLUEBEAM LABELING/DOCR:

GENERAL ARCH PLAN NOTES

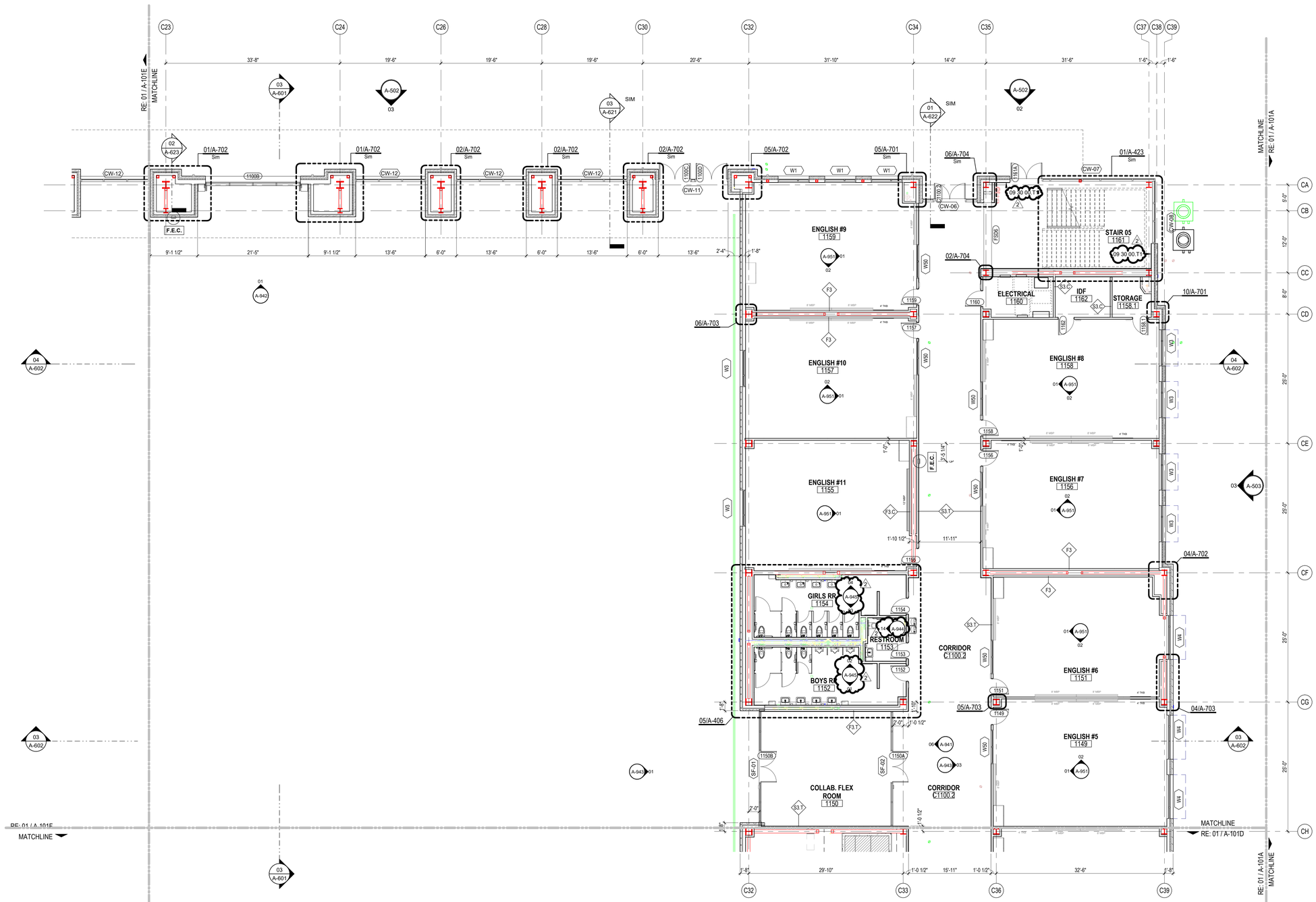
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, 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. [illegible]
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

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
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 1 - AREA C FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:10:14 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

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
2	ADD 03	2025/12/19

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.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOWSTOOLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



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

D

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA D FLOOR PLAN

A-101D

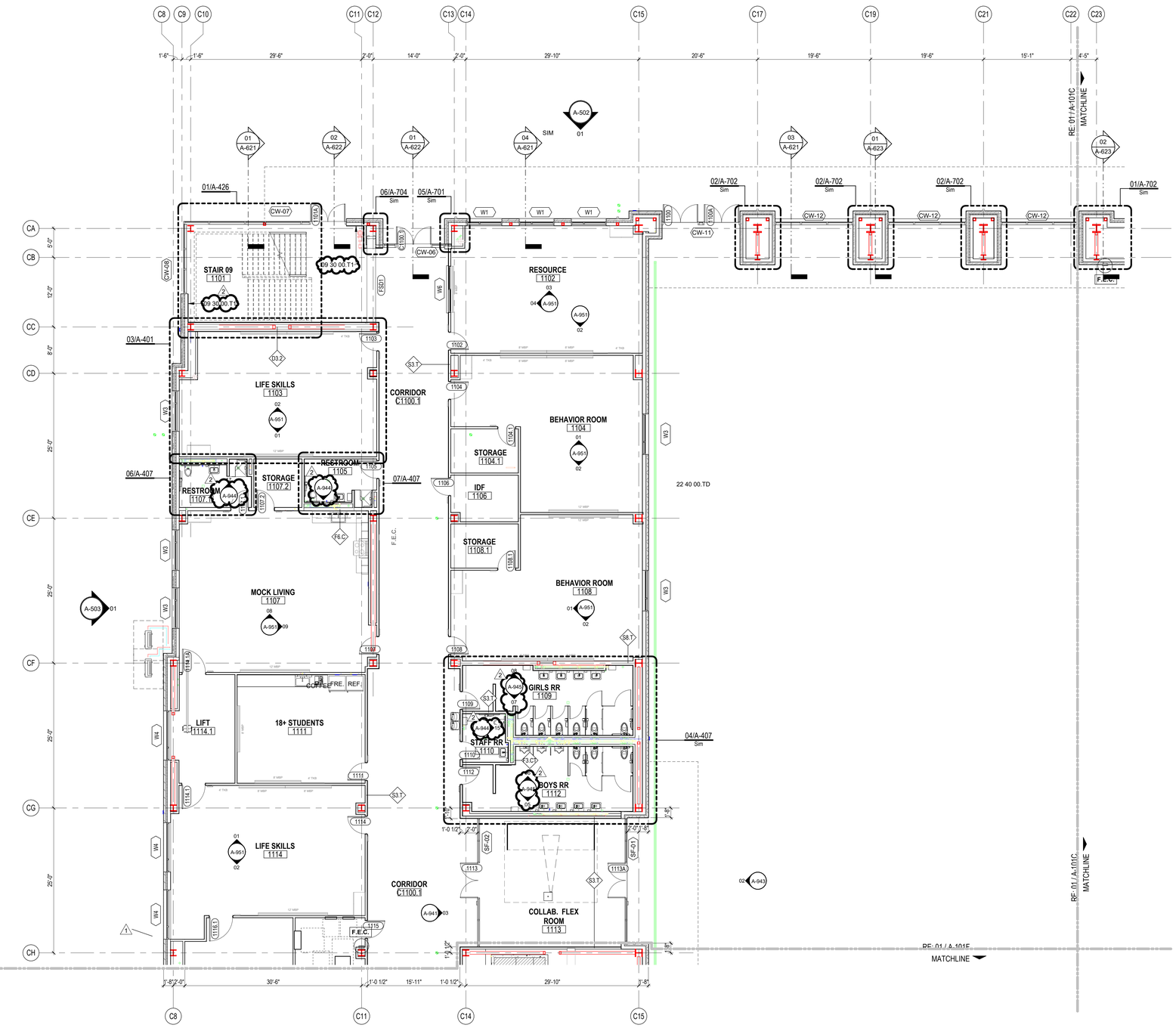
Plot Stamp:
12/18/2025 6:10:19 PM

GENERAL ARCH PLAN NOTES

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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.
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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.
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. [illegible] AT ALL EXTERIOR WINDOWS TO GET SOLID SURFACE. WINDOW SILLS, RE: STOREFRONT SILL DETAILS.
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE. WINDOW SILLS, RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
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:
12/18/2025 6:10:23 PM

LEVEL 1 - AREA E FLOOR PLAN
A-101E
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

E

KEY PLAN
NORTH: PLAN TRUE

LEE S. LEPICOVSKY
REGISTERED ARCHITECT
JAN 25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA E FLOOR PLAN

A-101E

LEVEL 1 - AREA F FLOOR PLAN
A-101F

FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

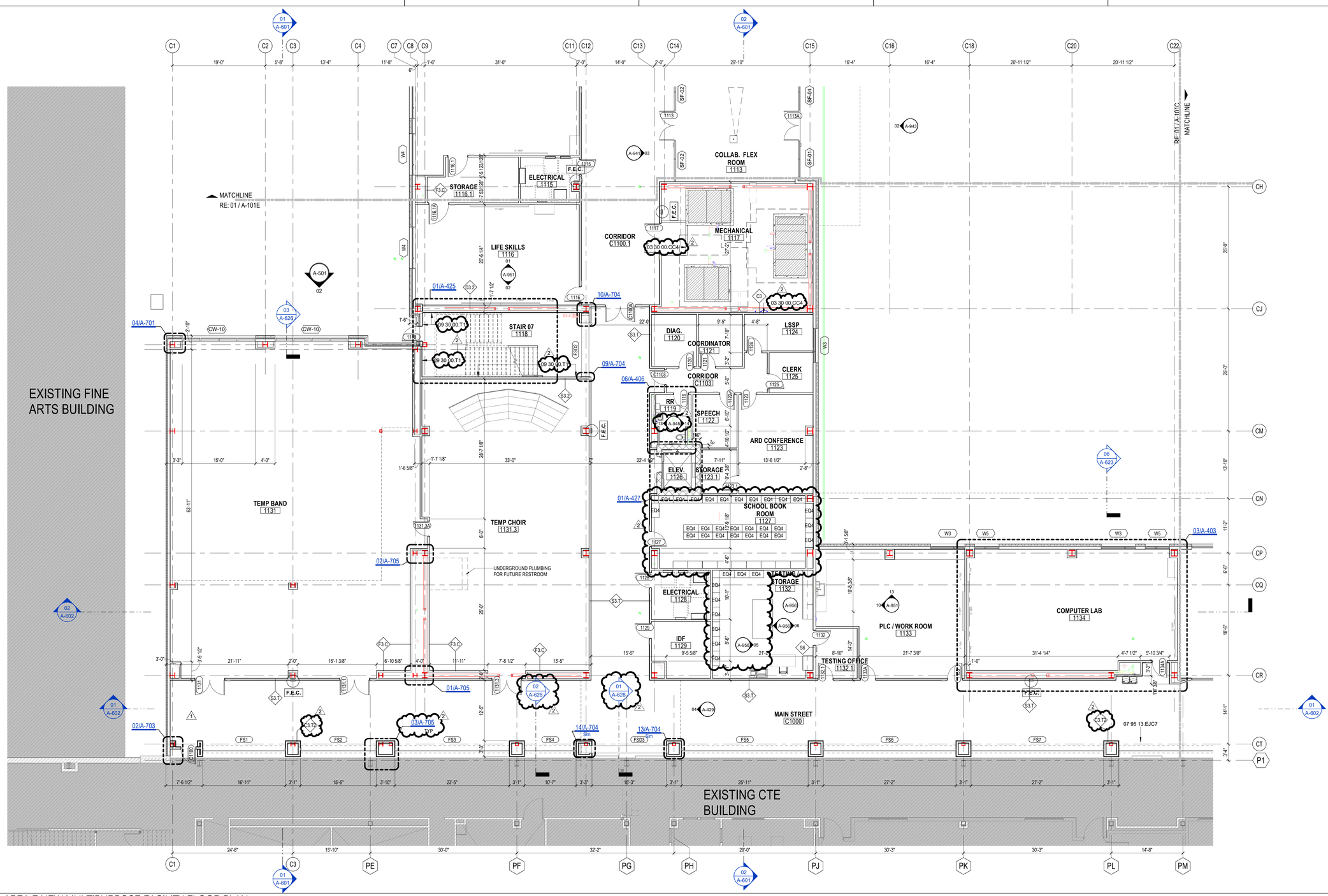
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4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR 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.
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. [illegible]
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SIL. DETAILS.

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ4	Metal Shelving - 5 Shelves - 36" W x 18" D x 7'-2" H	-	Solid steel	CFCI	46

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 1 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/19/2025 11:58:43 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

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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

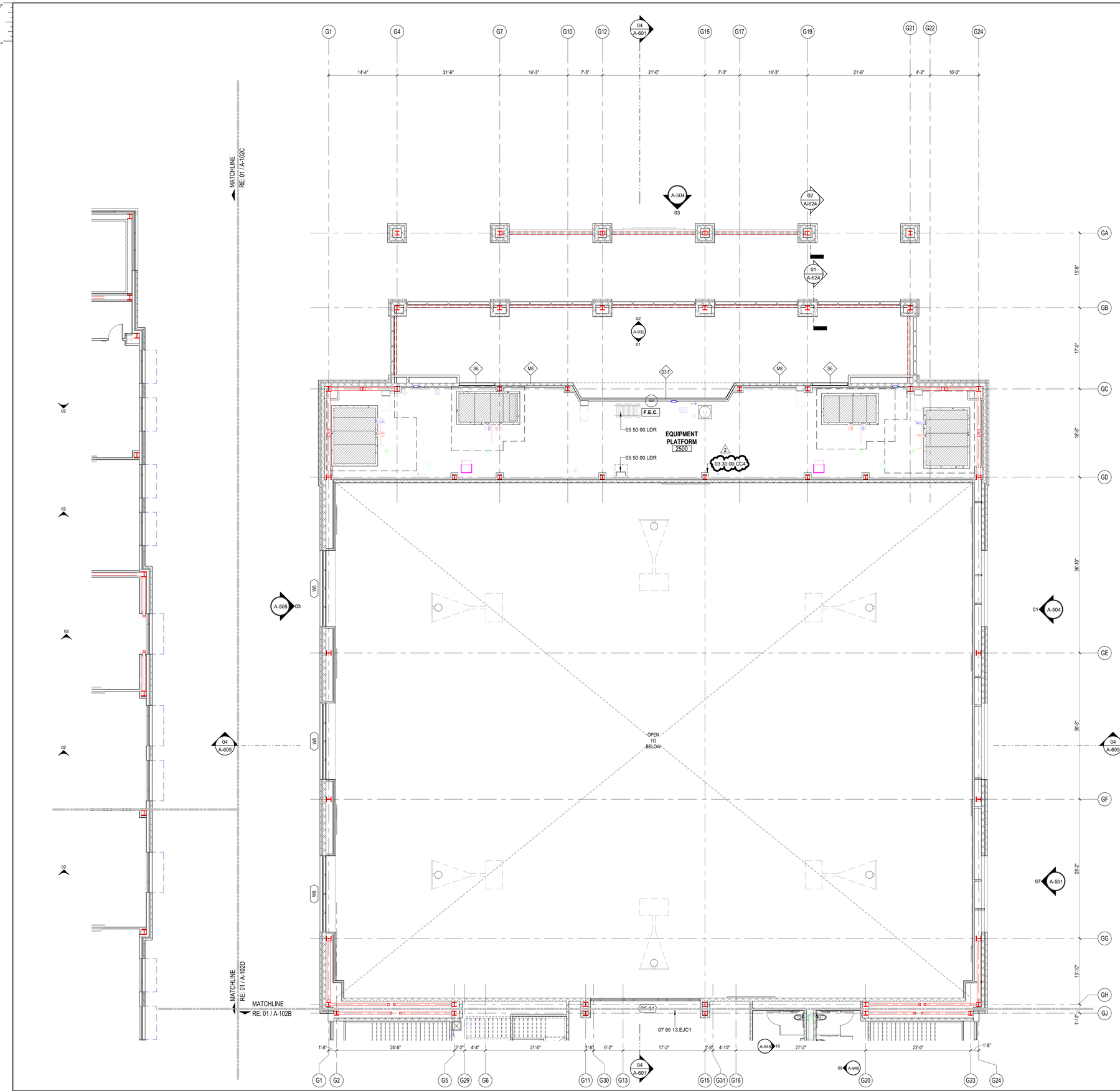
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA F FLOOR PLAN

A-101F

LEVEL 2 - AREA A FLOOR PLAN
A-102A
FOR BLUEBEAM LABELING/DOOR:

0"
1"



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.
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-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.
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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
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
05 50 00.LDR	STEEL LADDER
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ8	Competition Gym Scoreboard	Nevco	2772-RL-W	OFCI	2

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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
2	ADD 03	2025/12/19

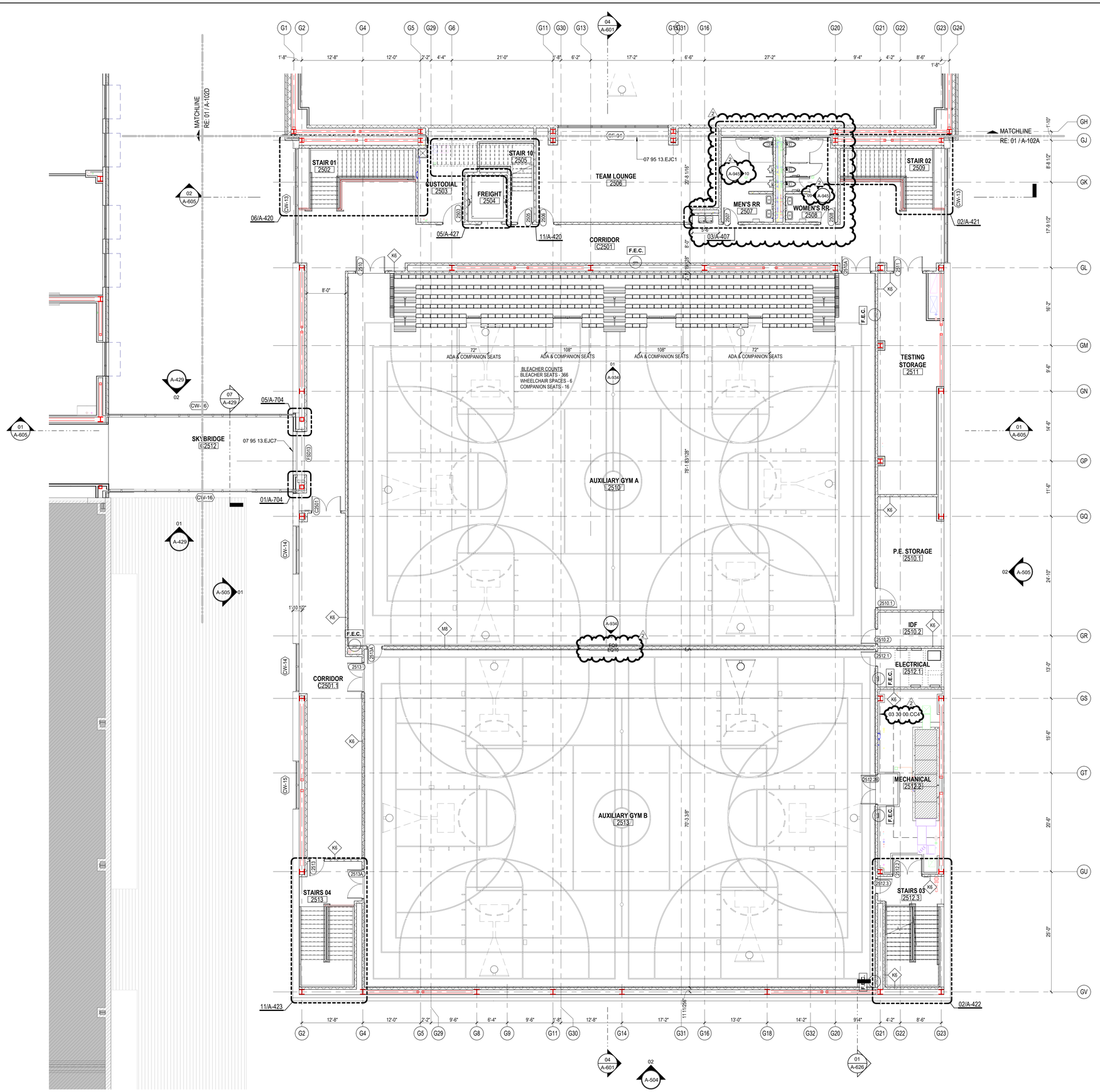
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA A FLOOR PLAN

A-102A

Plot Stamp:
12/18/2025 6:10:30 PM

LEVEL 2 - AREA B FLOOR PLAN
A-102B
FOR BLUEBEAM LABELING/OCR:



01 LEVEL 2 - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

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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.
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
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13.EJC1	INTERIOR EXPANSION JOINT COVER
07 95 13.EJC7	INTERIOR EXPANSION JOINT COVER

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ9	Auxiliary Gym A Scoreboard	Nevco	2772-RL-W	OFCI	1
EQ10	Auxiliary Gym B Scoreboard	Nevco	2702-RL	OFCI	1

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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
EXCELLENCE IN ALL FOR ALL

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA B FLOOR PLAN

A-102B

Plot Stamp:
12/18/2025 6:10:35 PM

LEVEL 2 - AREA C FLOOR PLAN
A-102C
FOR BLUEBEAM LABELING/OCR:

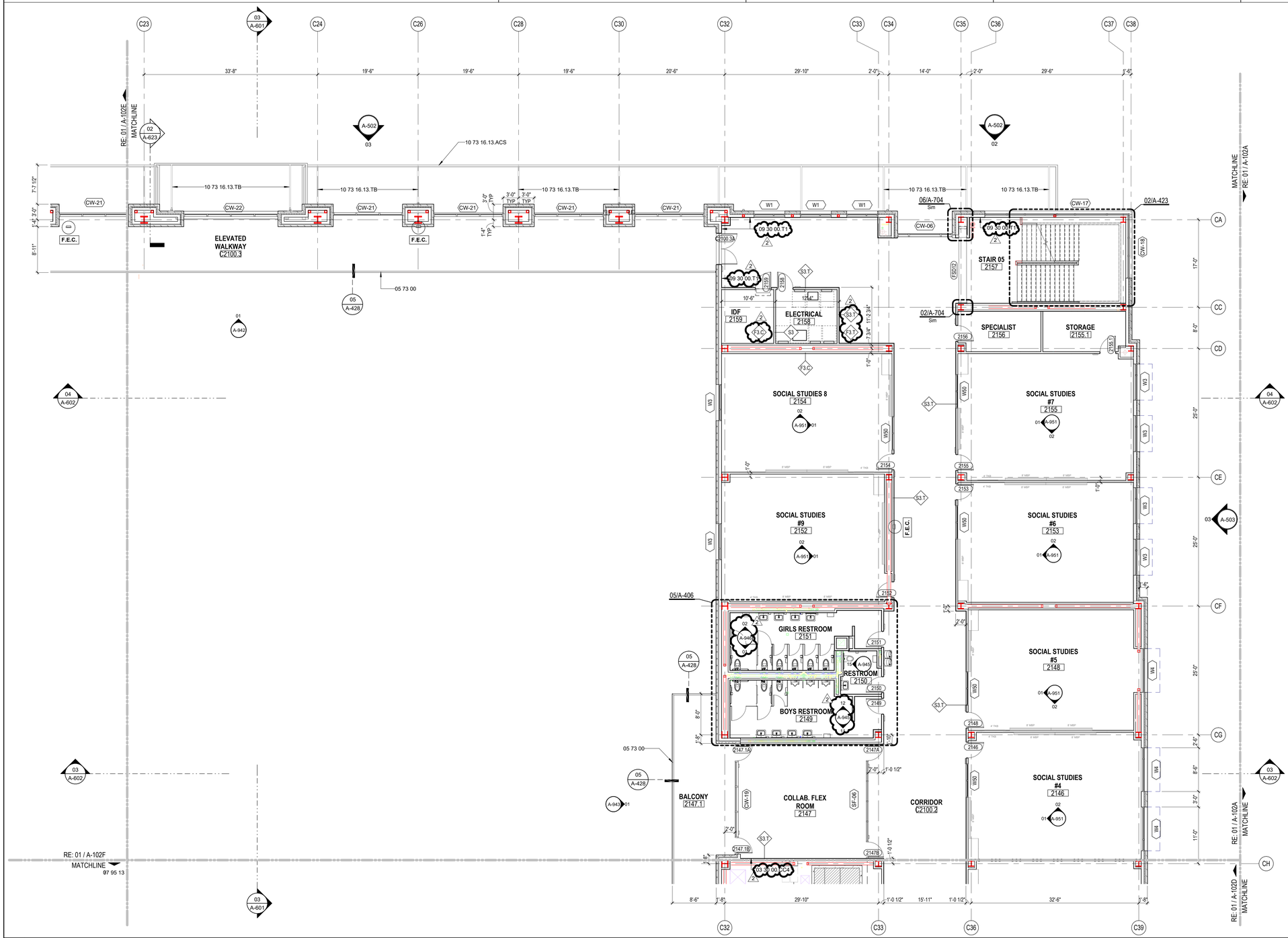
0"
1"

GENERAL ARCH PLAN NOTES

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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.
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-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.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS, RE: STOREFRONT SILL DETAILS. 2

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
05 73 00	DECORATIVE METAL RAILINGS (Architectural - PBK Architects)
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (Architectural - PBK Architects)
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
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:
12/18/2025 6:10:40 PM

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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
2	ADD 03	2025/12/19

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:

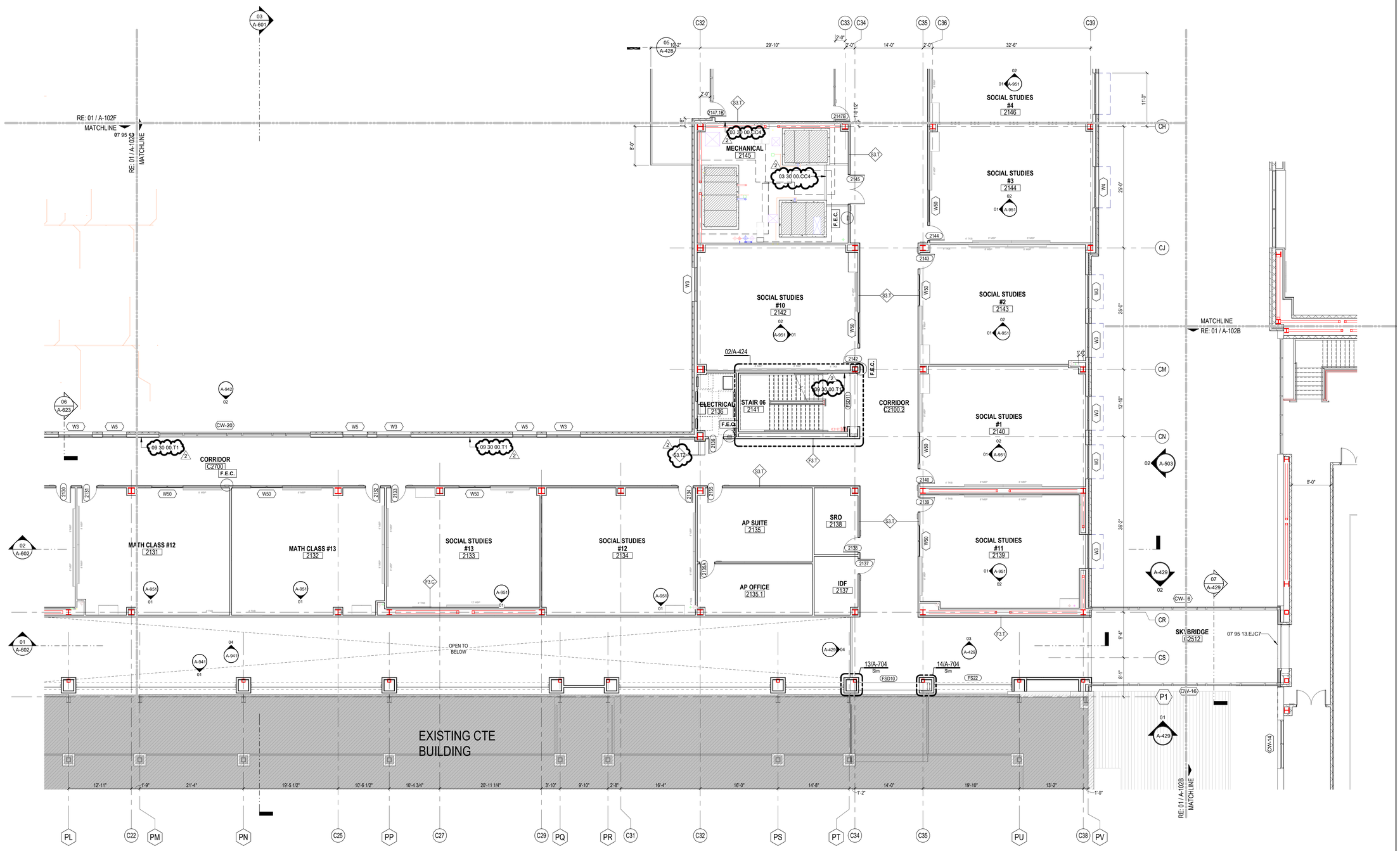
0"
1"

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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.
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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. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW SILLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (Architectural - PBK Architects)
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 2 - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:10:45 PM

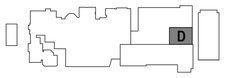
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HOUSTON, TX
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D FLOOR PLAN

A-102D

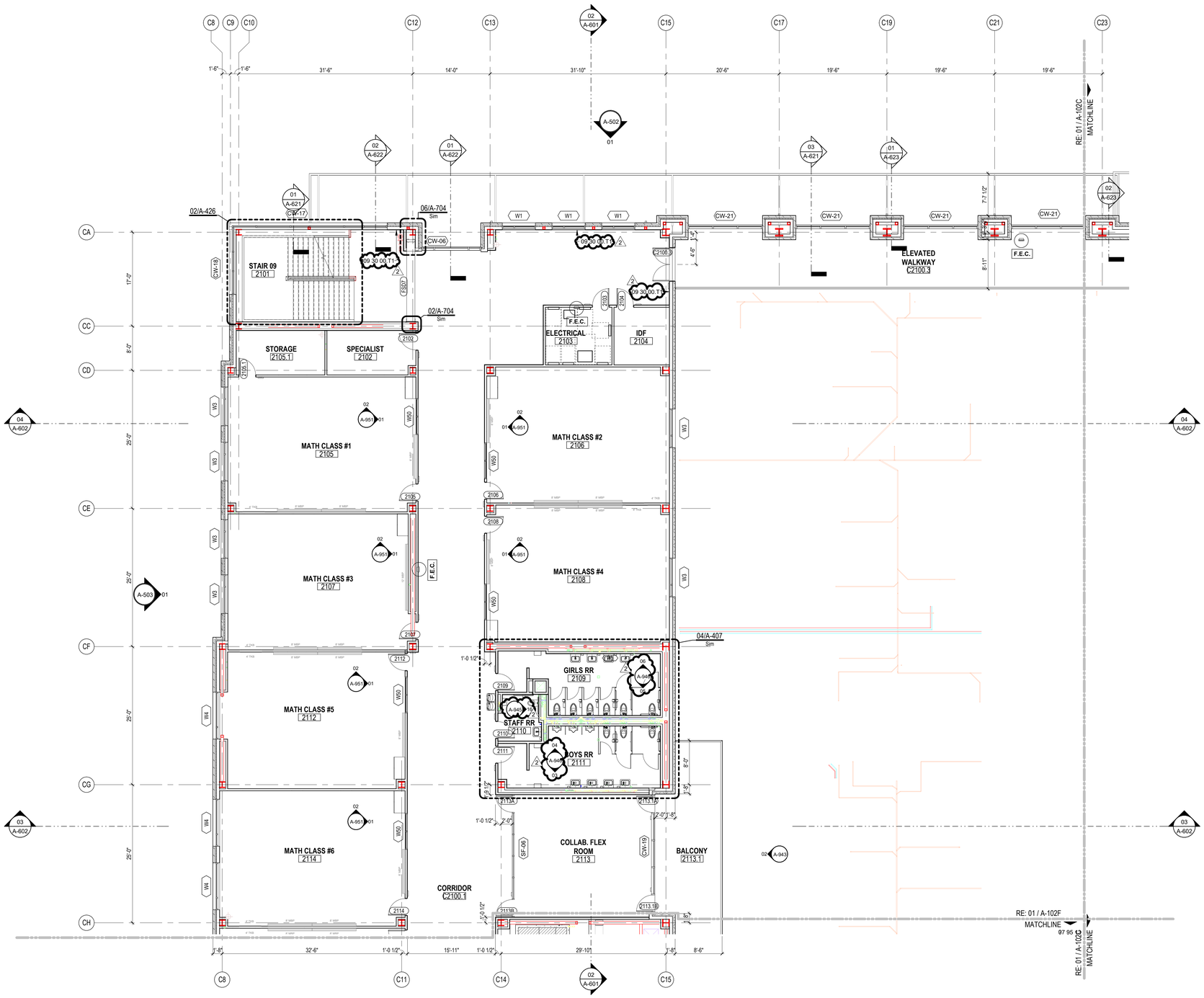
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9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
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11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. [illegible]
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (Architectural - PBK Architects)
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 2 - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

LEVEL 2 - AREA E FLOOR PLAN
A-102E
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/18/2025 6:10:49 PM

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713-865-0008

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

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA E FLOOR PLAN

A-102E

LEVEL 2 - AREA F FLOOR PLAN
A-102F
FOR BLUEBEAM LABELING/OCR:

0"
1"

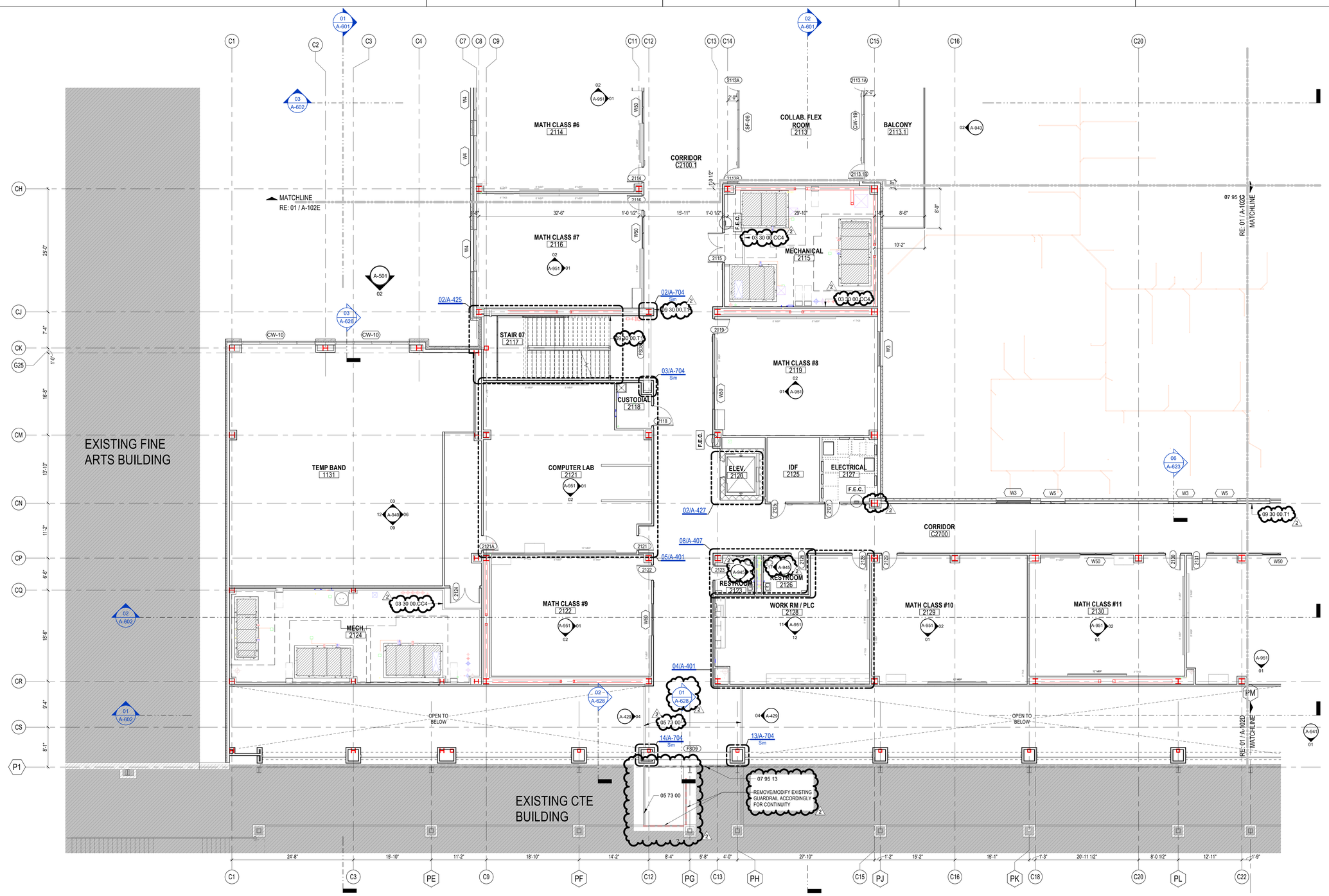
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KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
05 73 00	DECORATIVE METAL RAILINGS (Architectural - PBK Architects)
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 2 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/19/2025 11:58:47 AM

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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

F

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS REGISTERED ARCHITECT IAN TEPICO SAN 25572

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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA F FLOOR PLAN

A-102F

LEVEL 3 - AREA C FLOOR PLAN
A-103C
FOR BLUEBEAM LABELING/OCR:

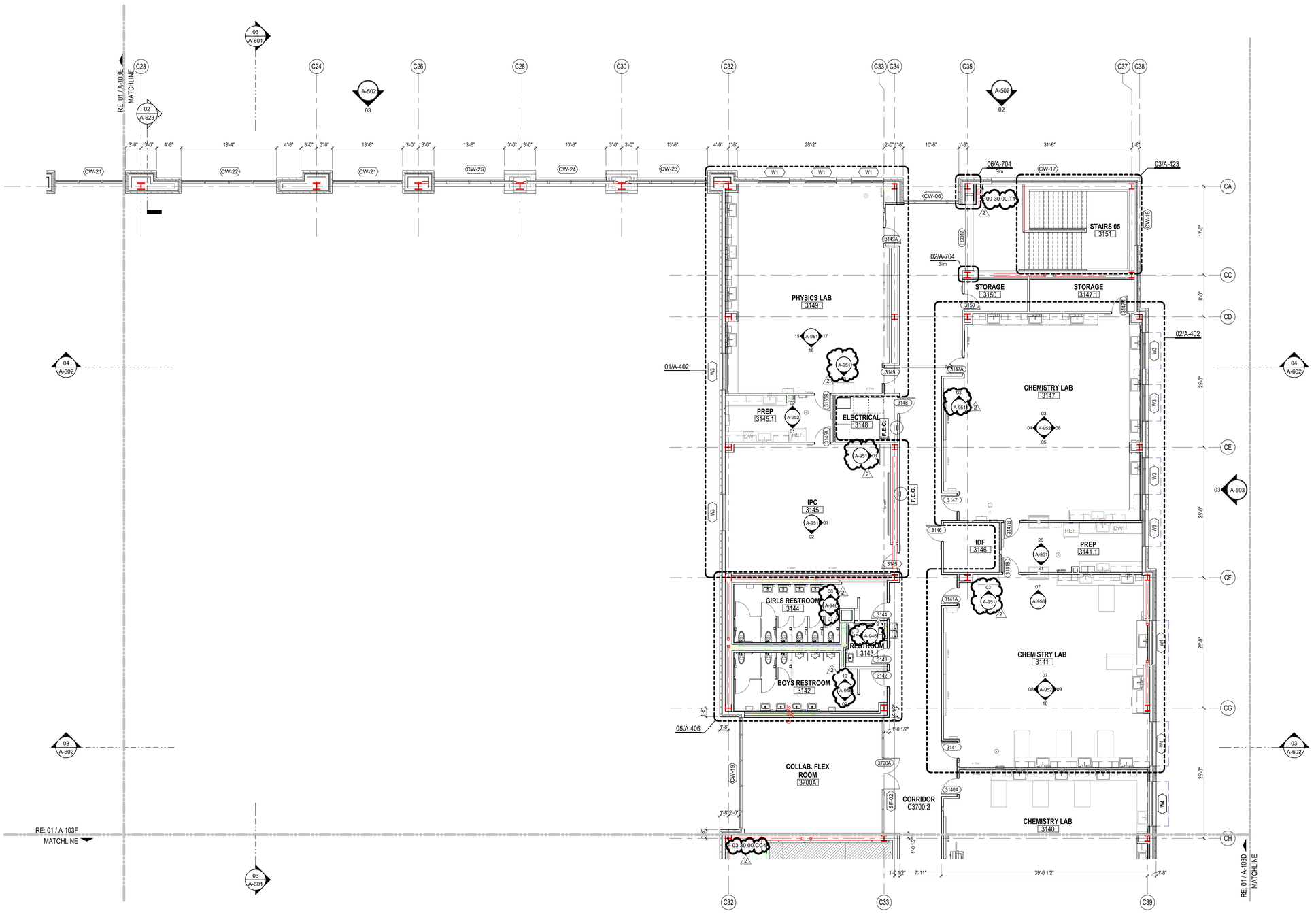
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9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF 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. [illegible]
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



02 LEVEL 3 - AREA C NEW GYM FLOOR PLAN
1/8" = 1'-0"

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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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA C FLOOR PLAN

A-103C

LEVEL 3 - AREA E FLOOR PLAN
A-103E
FOR BLUEBEAM LABELING/DOCR:

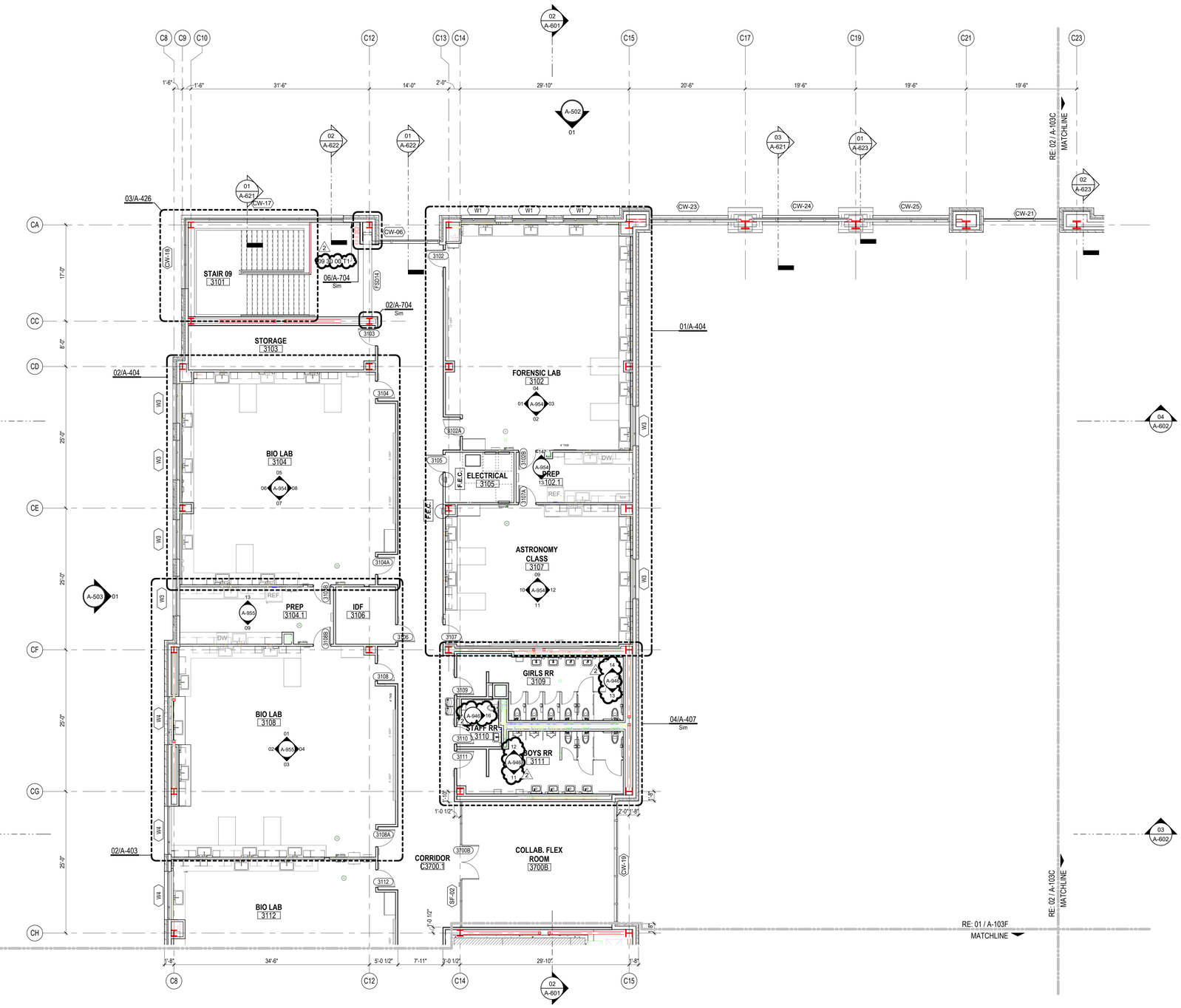
0"
1"

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.
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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.
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. COORDINATE ALL EXTERIOR WINDOW SILL DETAILS WITH ALL EXTERIOR WALL TYPES.
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 3 - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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

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ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

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

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21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. [illegible]
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW SILLS, RE: STOREFRONT SILL DETAILS.

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 5'-5" H	-	Solid steel	CFCI	12

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 3 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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Galena Park ISD

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KEY PLAN
NORTH: PLAN TRUE

LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

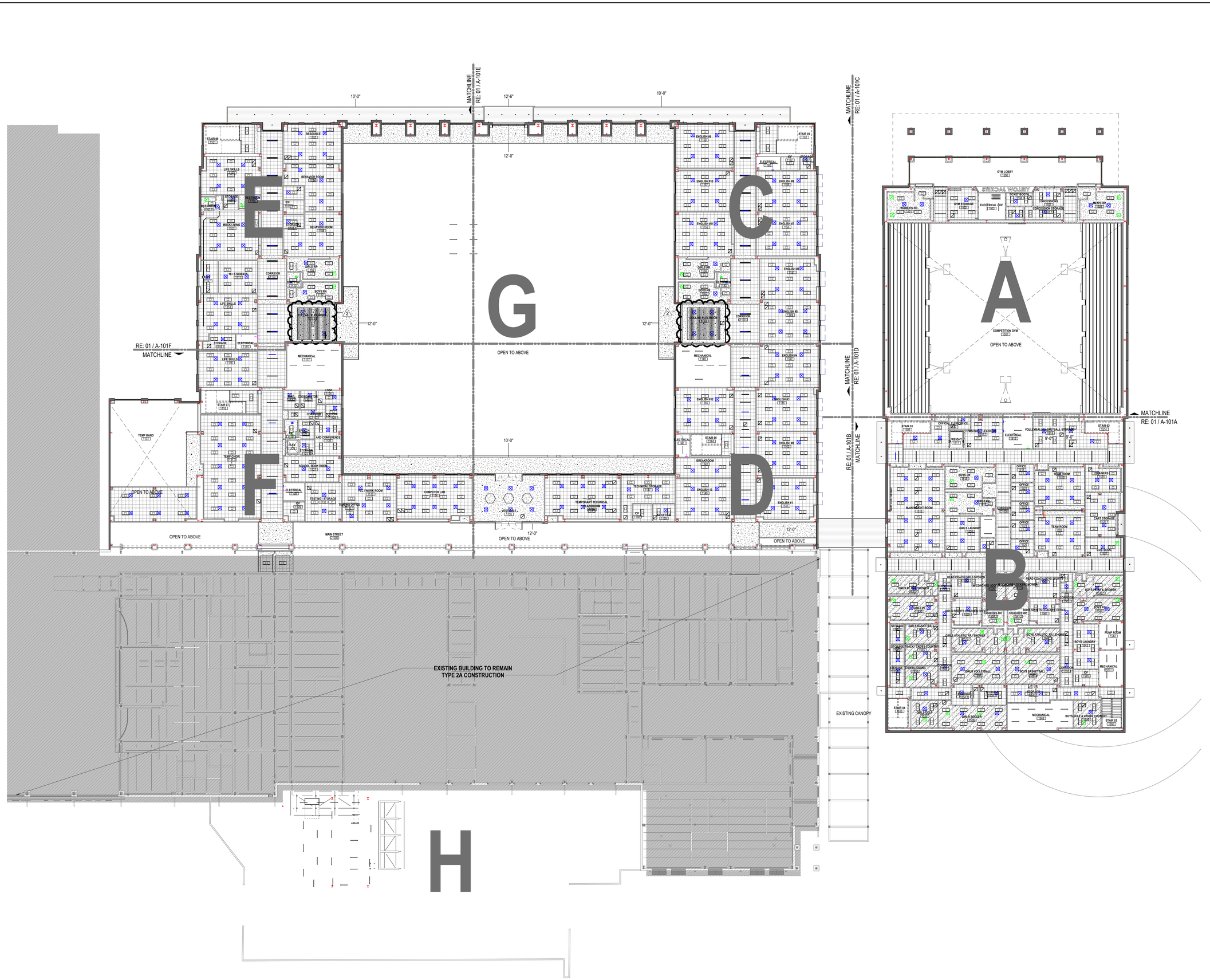
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA F
FLOOR PLAN

A-103F

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"

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REGISTERED ARCHITECT
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STATE OF TEXAS

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Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - OVERALL CEILING PLAN

A-201

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.
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 7'-0" A.F.F. TO THE BOTTOM 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

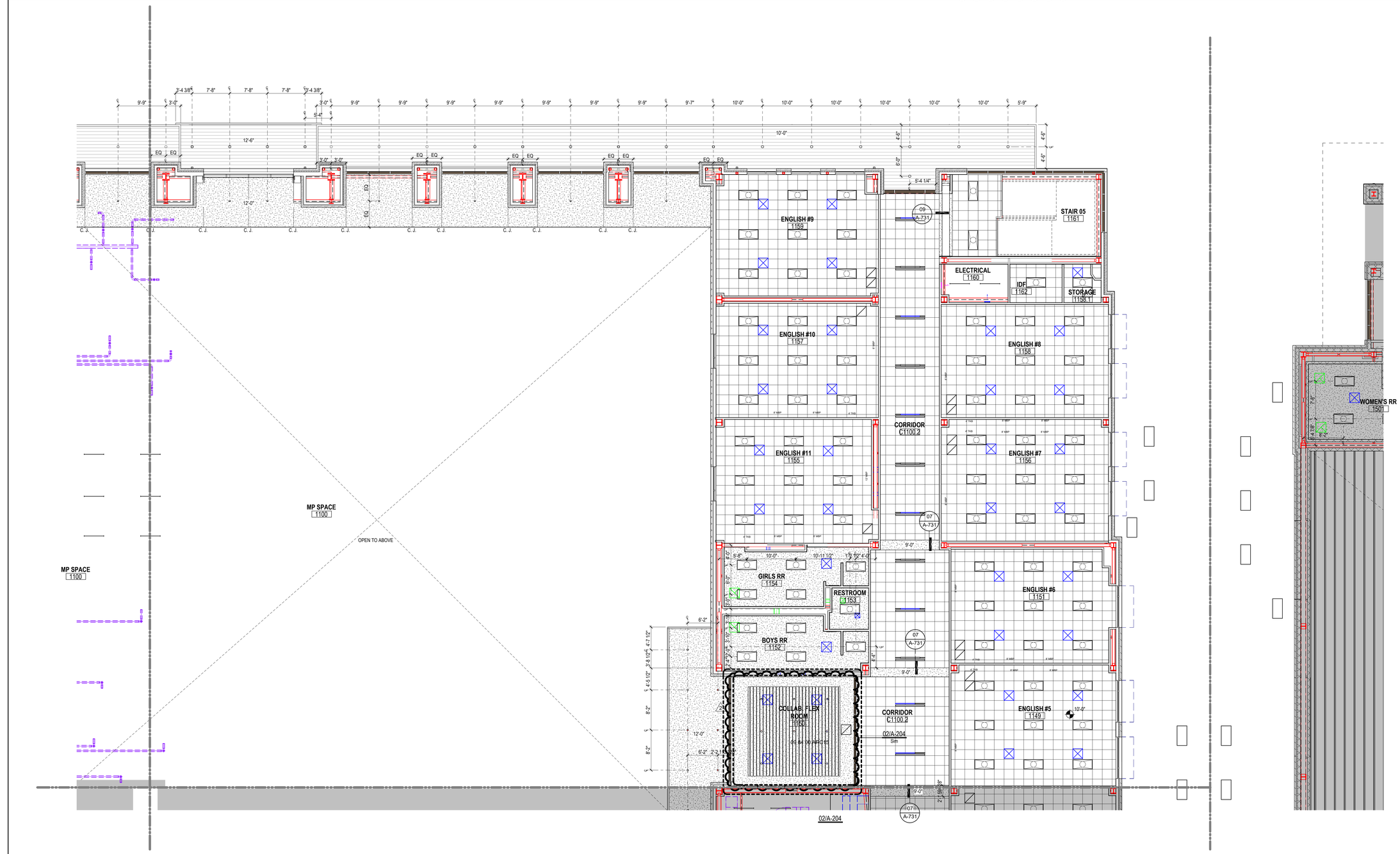
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 1 - AREA C NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

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REGISTERED ARCHITECT
25572
STATE OF TEXAS

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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA C CEILING PLAN

A-201C

0"
1"

LEVEL 1 - AREA E CEILING PLAN
A-201E
FOR BLUEBEAM LABELING/DOCR:

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.
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CEILING FIXTURE LEGEND

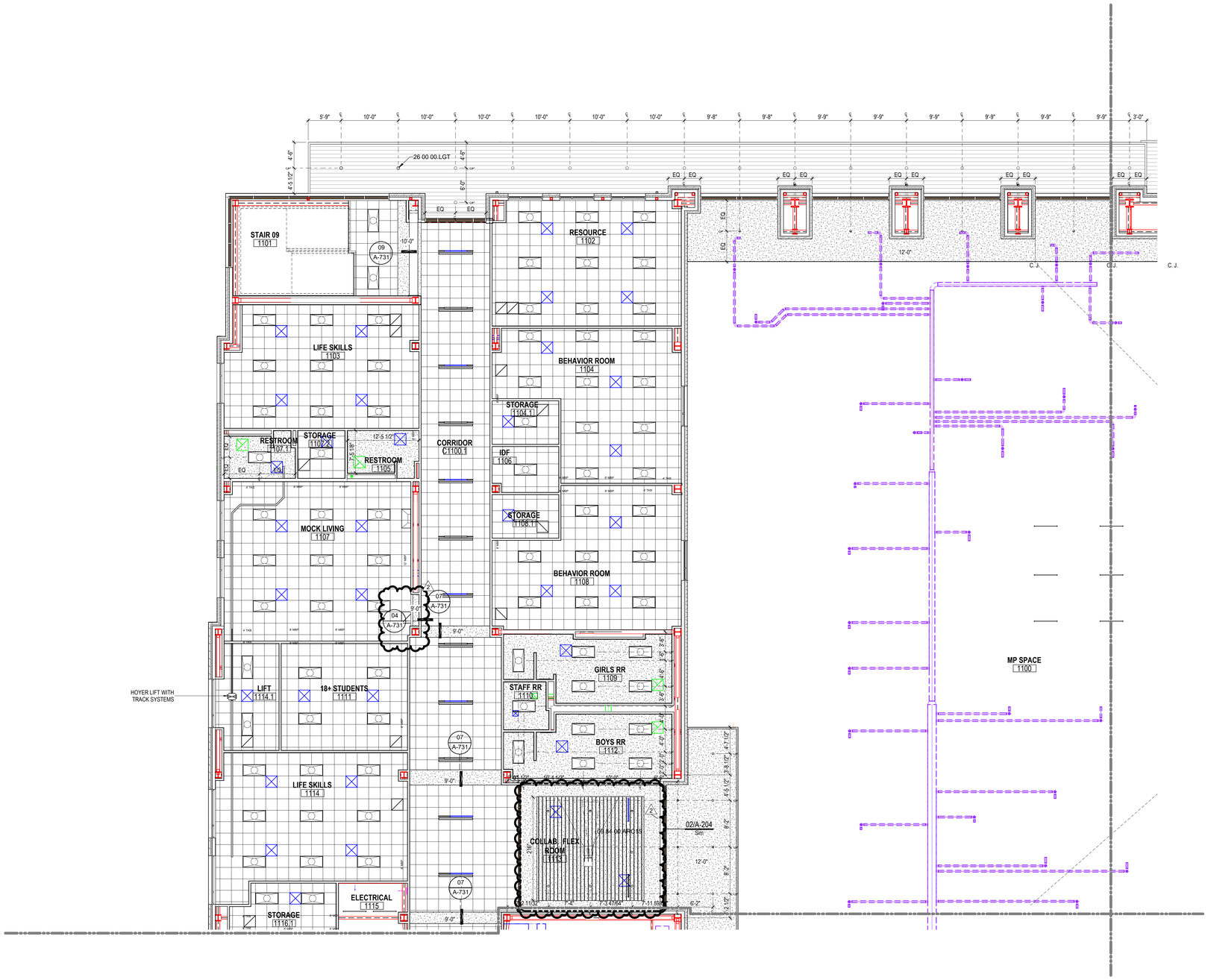
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- PROJECTOR

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- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL



01 LEVEL 1 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:11:29 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
2	ADD 03	2025/12/19

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 7'-0" A.F.F. TO THE BOTTOM 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*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 1 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/19/2025 11:58:50 AM

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

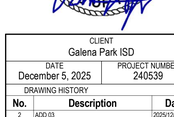
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE



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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

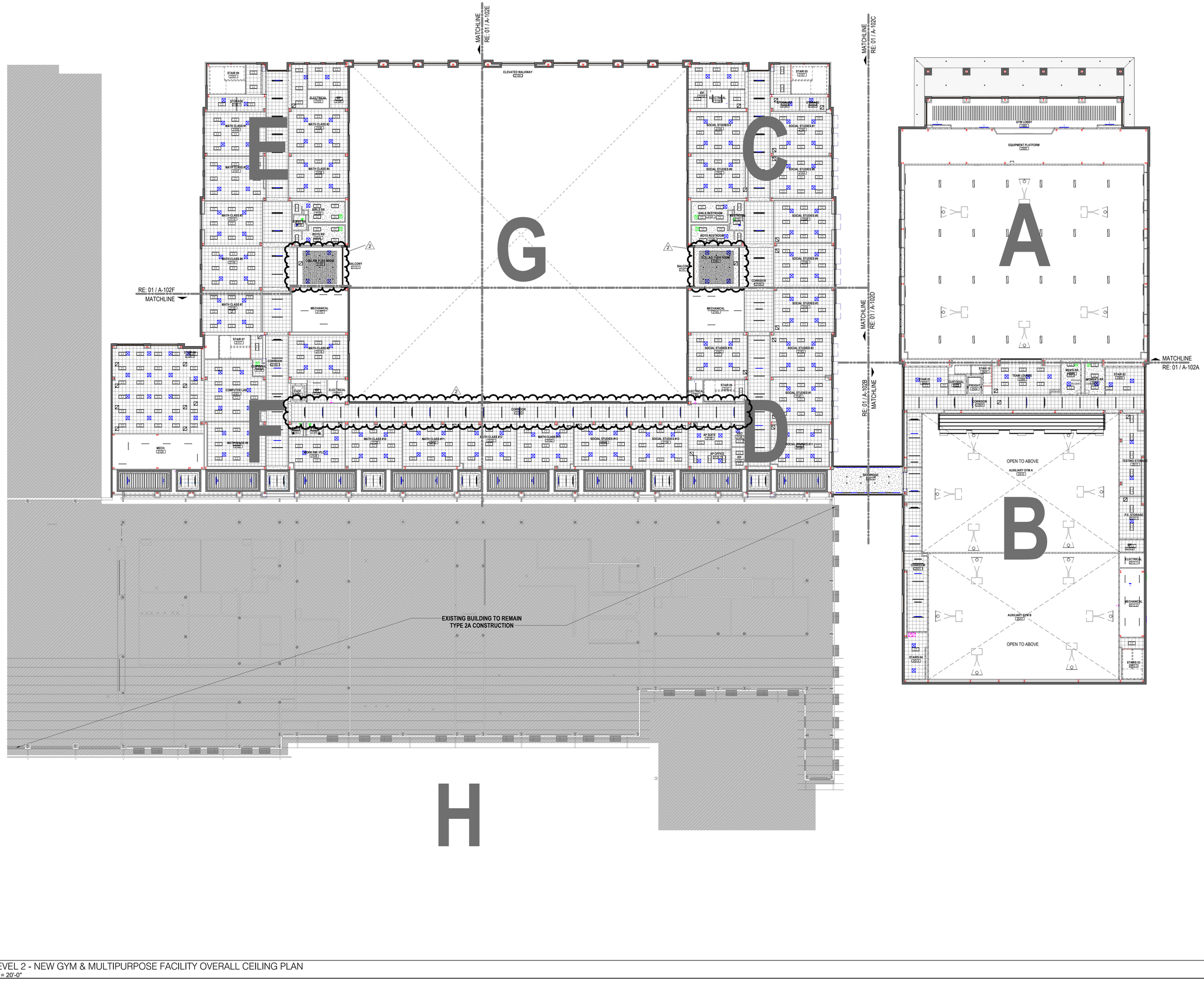
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA F CEILING PLAN

A-201F

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"

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12/18/2025 6:11:40 PM

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1000 Keene St,
Galena Park, TX 77547

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IVAN LEPICOVSKY
STATE OF TEXAS
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

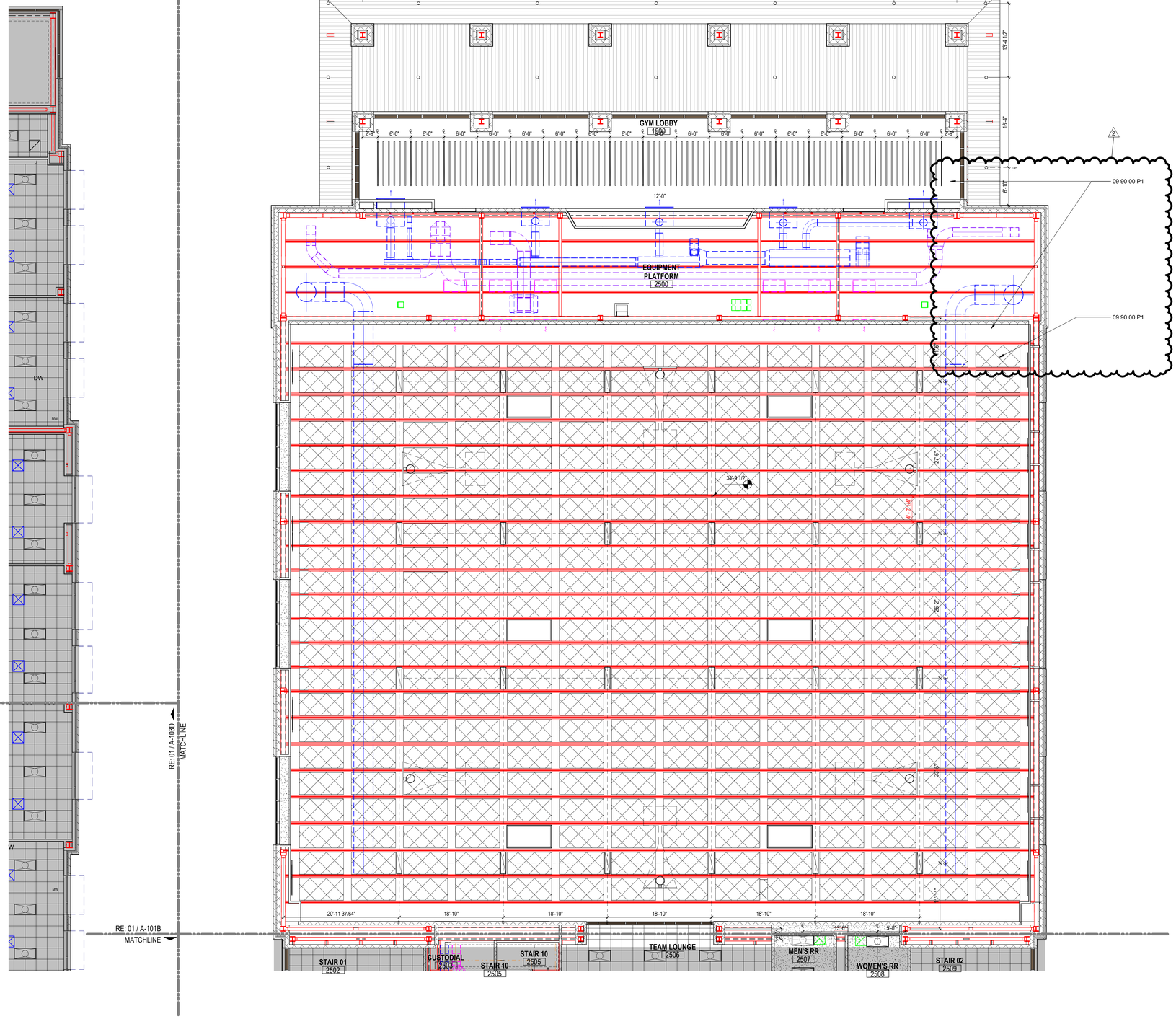
CHECKED BY: Checker
DRAWN BY: Author

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.
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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 7'-0" A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN OPEN CEILING 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.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 90 00.P1	PAINT TYPE 1 - [FIELD]

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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **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*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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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
JAN LEPICOVSKY
25572
STATE OF TEXAS

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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA A CEILING PLAN

A-202A

Plot Stamp:
12/18/2025 6:11:43 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.
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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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.
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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 7'-0" A.F.F. TO THE BOTTOM 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

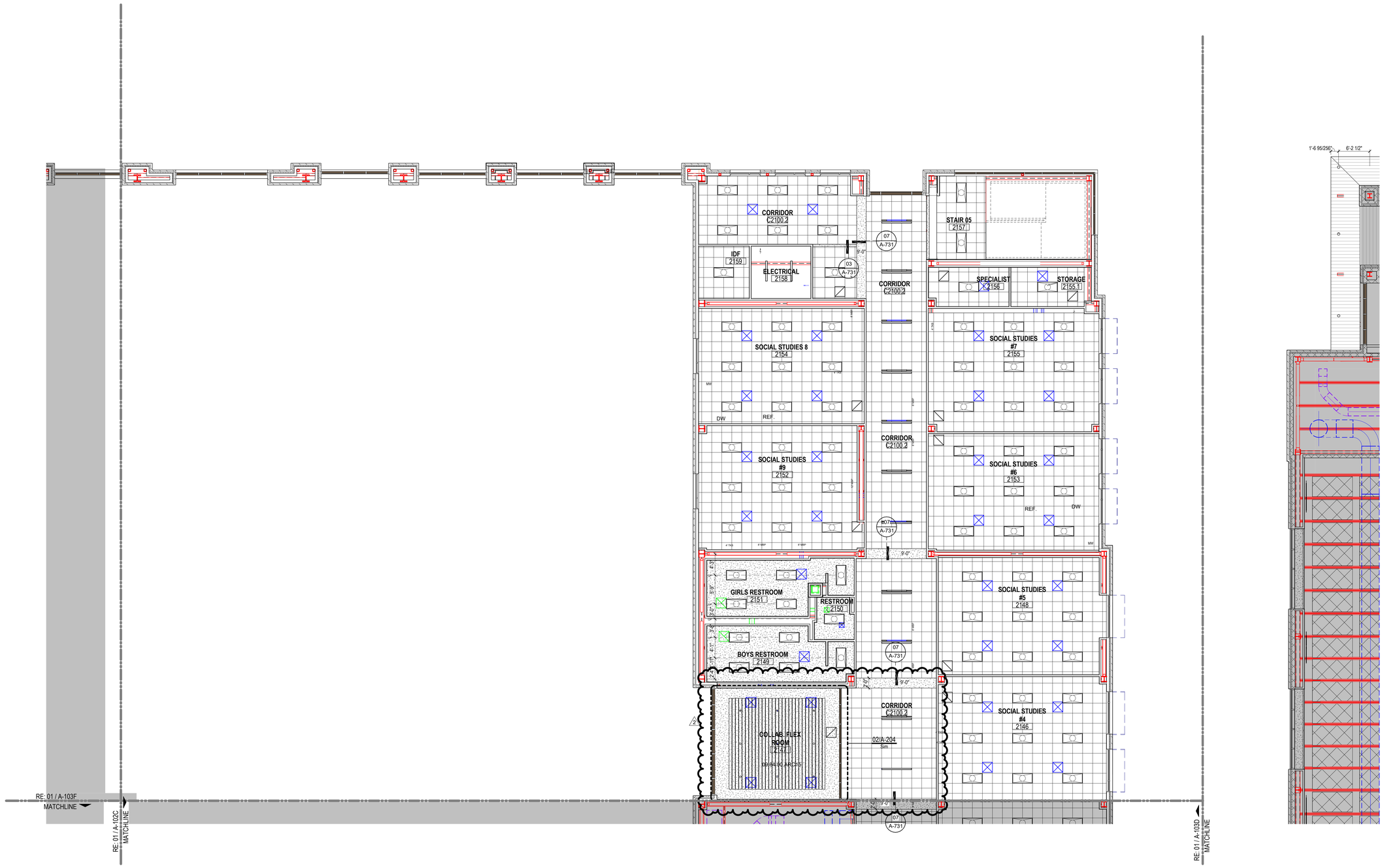
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 2 - AREA C NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

LEVEL 2 - AREA C CEILING PLAN
A-202C
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/18/2025 6:11:46 PM

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

1000 Keene St.
Galena Park, TX 77547

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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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA C CEILING PLAN

A-202C

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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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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CEILING FIXTURE LEGEND

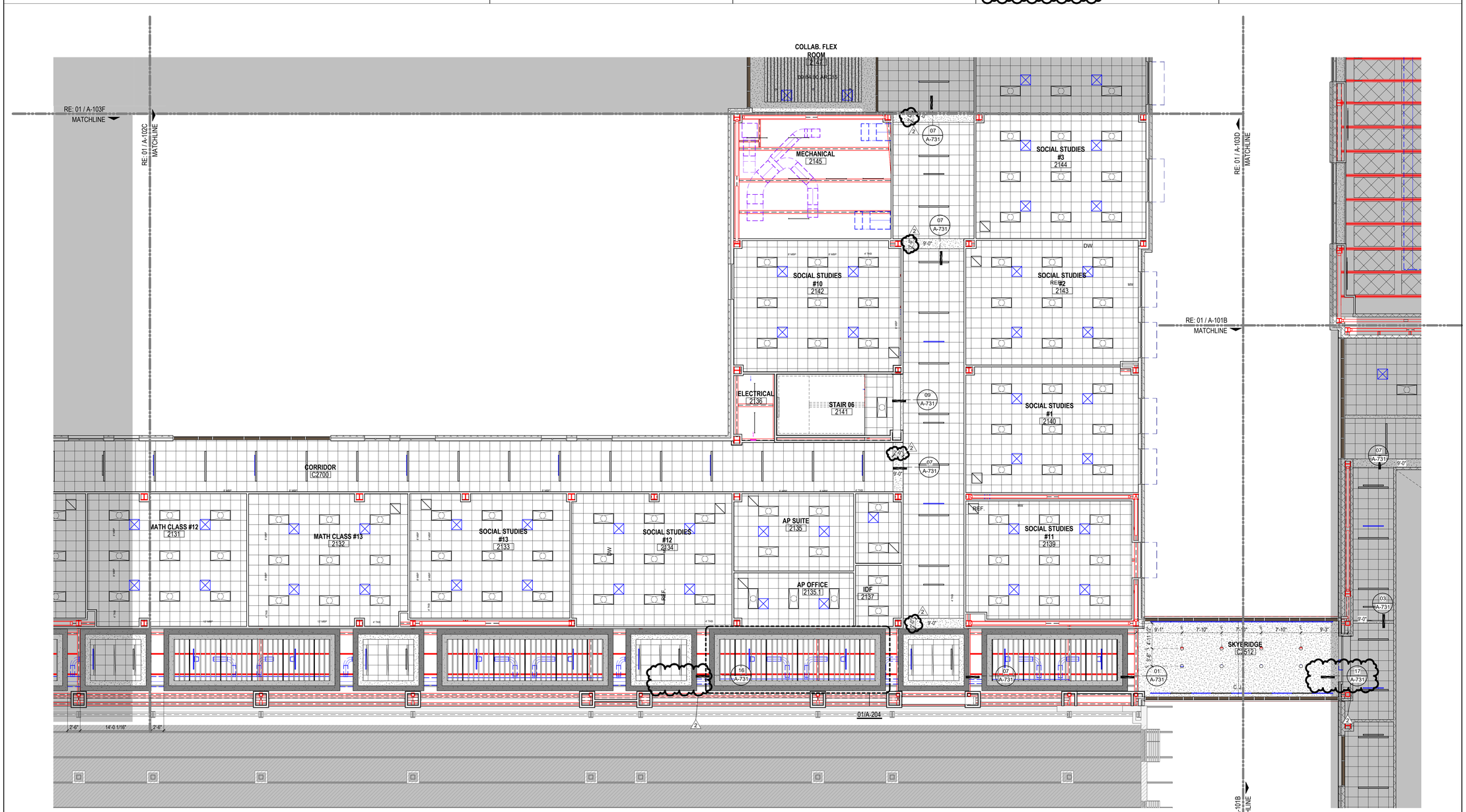
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 2 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:11:51 PM

LEVEL 2 - AREA D CEILING PLAN
A-202D
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

D

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D CEILING PLAN

A-202D

LEVEL 2 - AREA E CEILING PLAN
A-202E
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 7'-0" A.F.F. TO THE BOTTOM 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*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 2 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

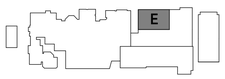
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KEY PLAN
NORTH: PLAN TRUE



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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

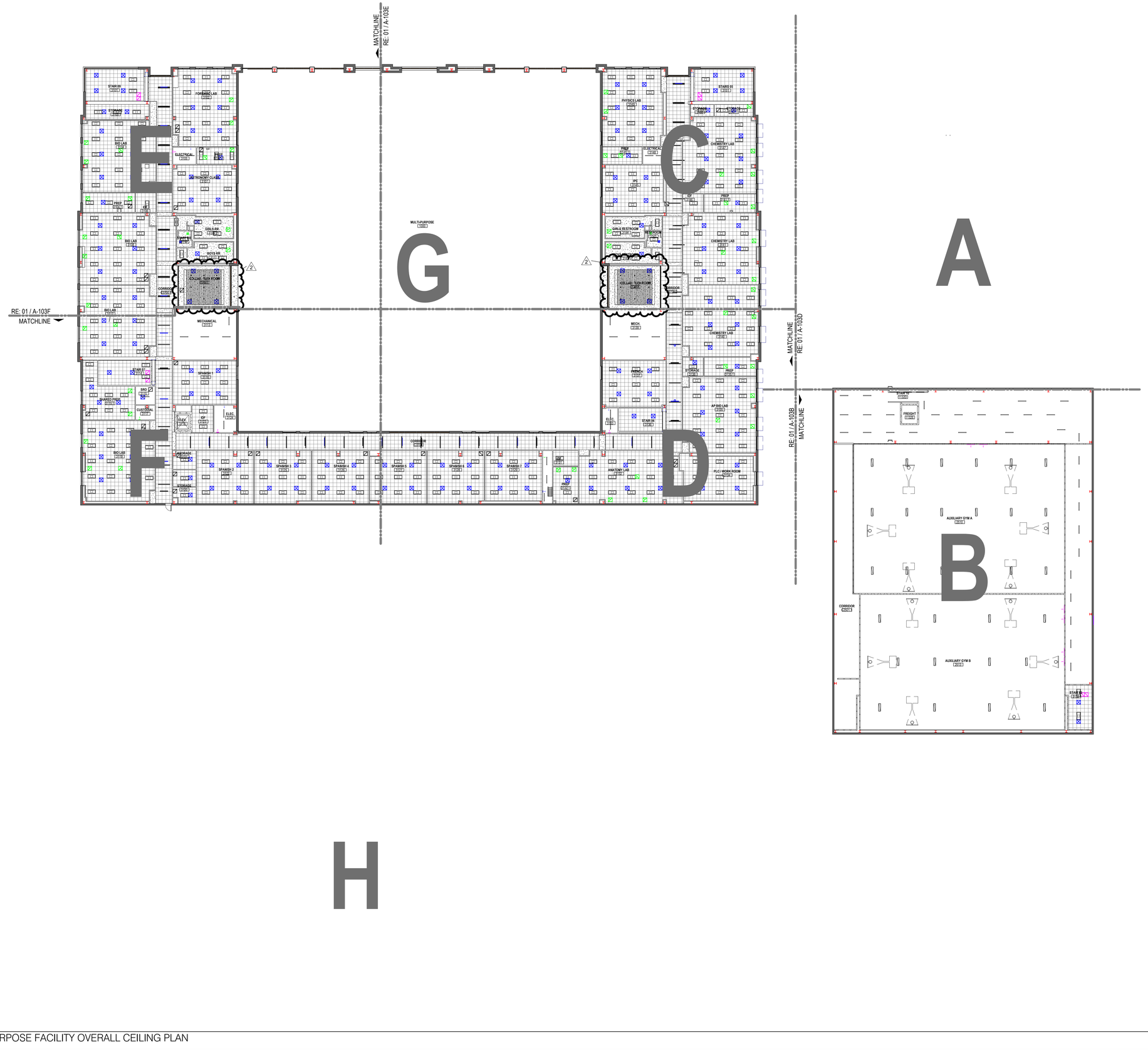
LEVEL 2 - AREA E CEILING PLAN

A-202E

Plot Stamp:
12/18/2025 6:11:53 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:
12/18/2025 6:11:57 PM

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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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - OVERALL CEILING PLAN

A-203

LEVEL 3 - AREA C CEILING PLAN
A-203C
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.
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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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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*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 3 - AREA C CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:12:00 PM

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

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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
2	ADD 03	2025/12/19

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/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.
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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*
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- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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
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- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 3 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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

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Galena Park, TX 77547

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Galena Park ISD

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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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA D
CEILING PLAN

A-203D

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.
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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 7'-0" A.F.F. TO THE BOTTOM 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

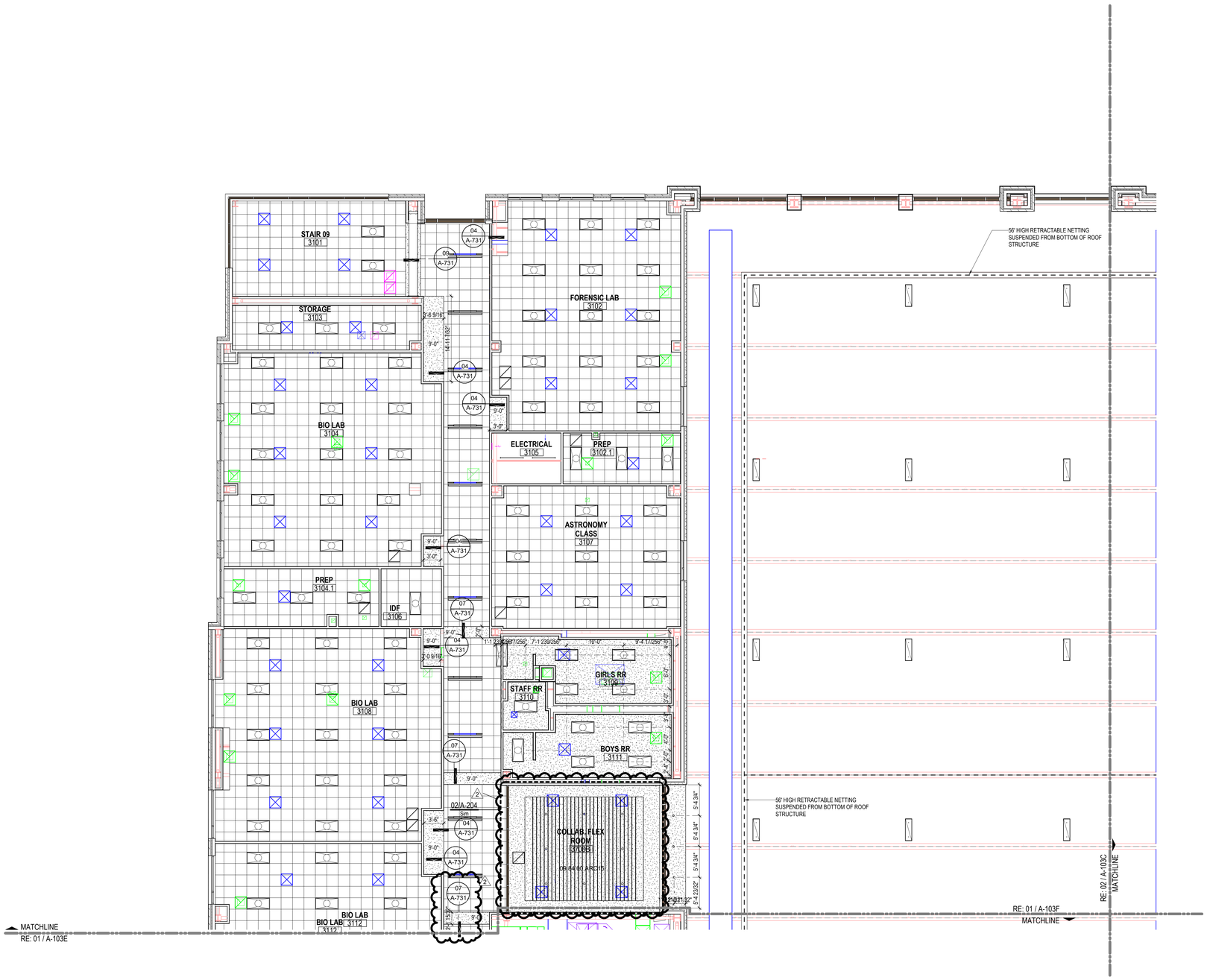
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1" X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 3 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:12:05 PM

LEVEL 3 - AREA E CEILING PLAN
A-203E
FOR BLUEBEAM LABELING/OCR:

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

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
2	ADD 03	2025/12/19

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.
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CEILING FIXTURE LEGEND

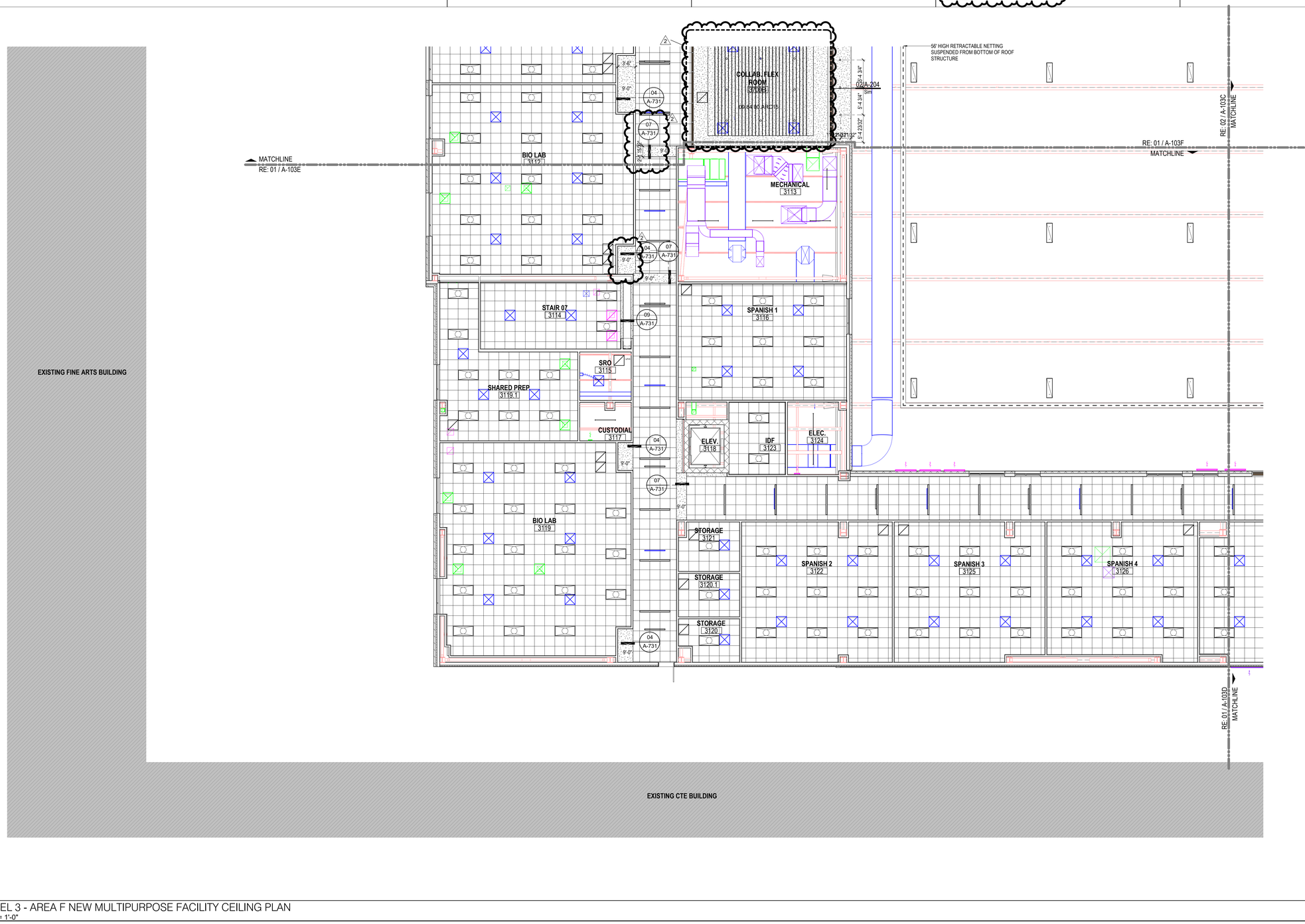
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR



01 LEVEL 3 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
12/18/2025 6:12:08 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

F

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
2	ADD 03	2025/12/19

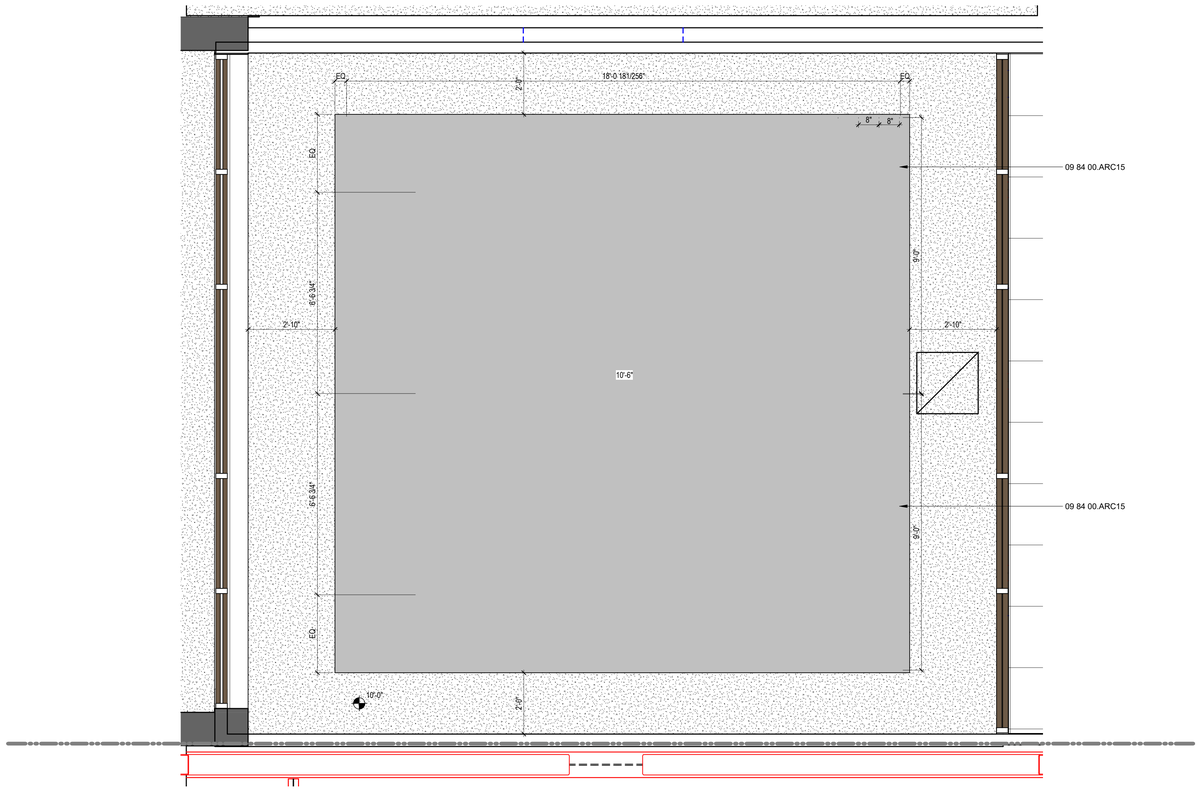
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA F
CEILING PLAN

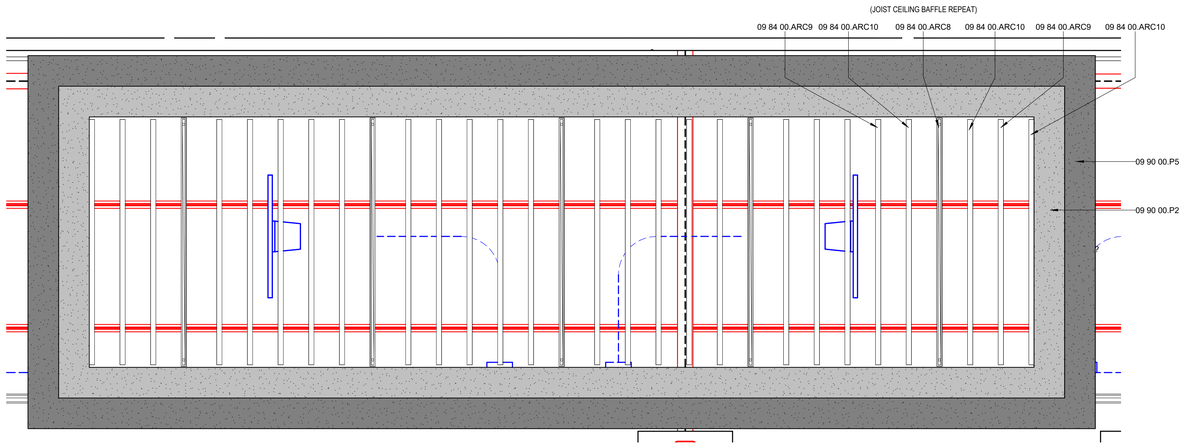
A-203F

0"
1"

ENLARGED CEILING PLANS
A-204
FOR BLUEBEAM LABELING/DOOR:



02 LEVEL 1 - AREA C CEILING PLAN - FLEX/COLLAB. AREA
1/2" = 1'-0"



01 LEVEL 2 - AREA D CEILING PLAN - ENLARGED
1/2" = 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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KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC8	ACOUSTIC ROOM COMPONENT TYPE 8 - CEILING-HUNG [ILLUMINATED] BAFFLE
09 84 00.ARC9	ACOUSTIC ROOM COMPONENT TYPE 9 - CEILING-HUNG BAFFLE
09 84 00.ARC10	ACOUSTIC ROOM COMPONENT TYPE 9 - CEILING-HUNG BAFFLE
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG REFLECTOR
09 90 00.P2	PAINT TYPE 2 - [L.GRAY ACCENT]
09 90 00.P5	PAINT TYPE 5 - [BLACK ACCENT]

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 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **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 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **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*
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- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
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- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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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

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: D.Z
DRAWN BY: D.Z

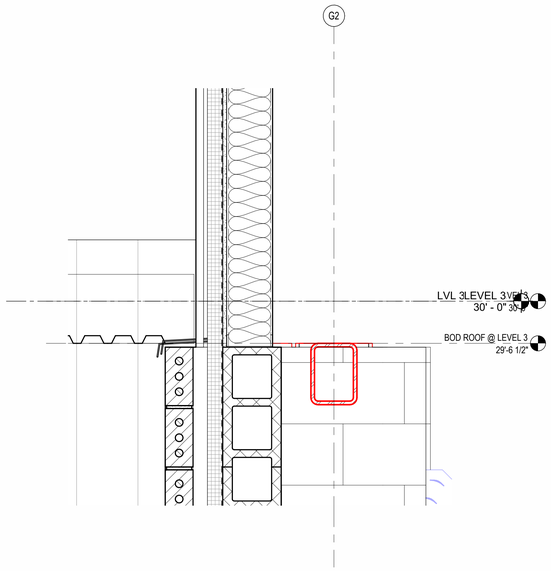
ENLARGED CEILING PLANS

A-204

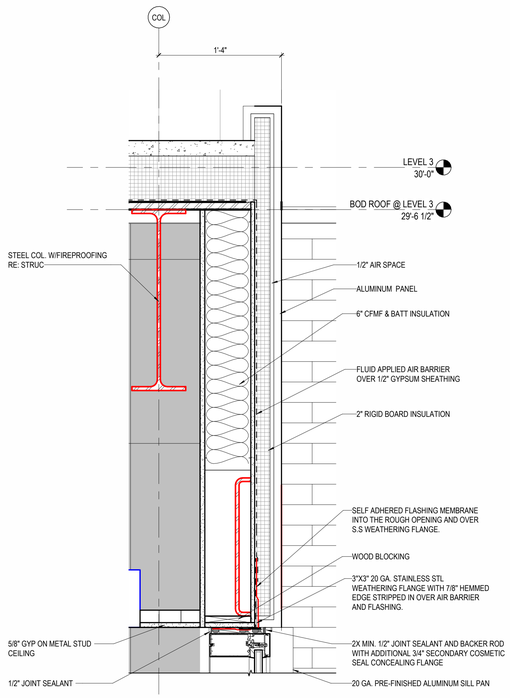
Plot Stamp:
12/18/2025 6:12:11 PM

ENLARGED SKYBRIDGE ELEVATIONS & SECTIONS
A-429
FOR BLUEBEAM LABELING/DOOR:

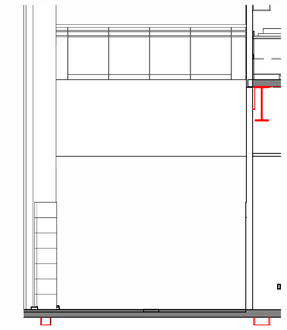
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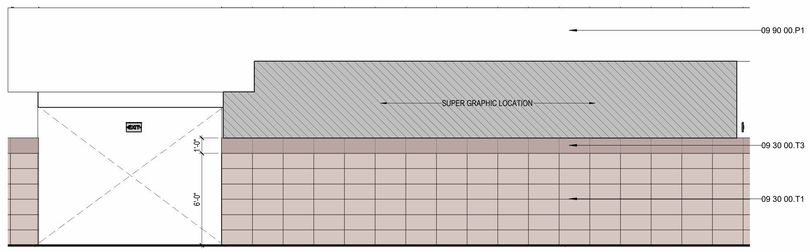
08 SKYBRIDGE ROOF TO CMU WALL TRANSITION
1 1/2" = 1'-0"



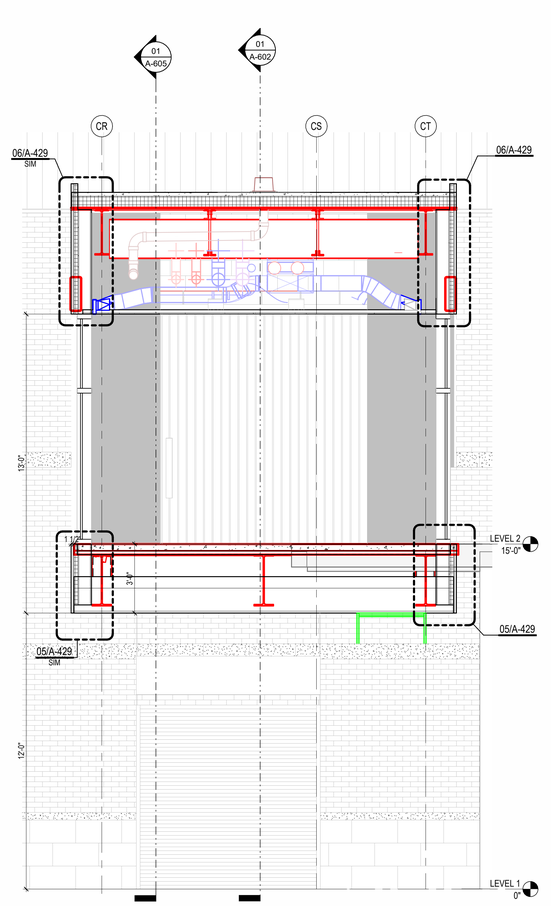
06 DETAIL @ SKYBRIDGE
1 1/2" = 1'-0"



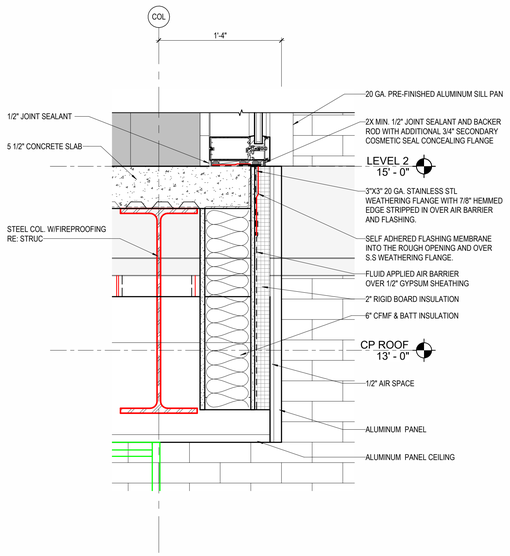
04 WEST MAINSTREET INTERIOR SKYBRIDGE ELEVATION
1/4" = 1'-0"



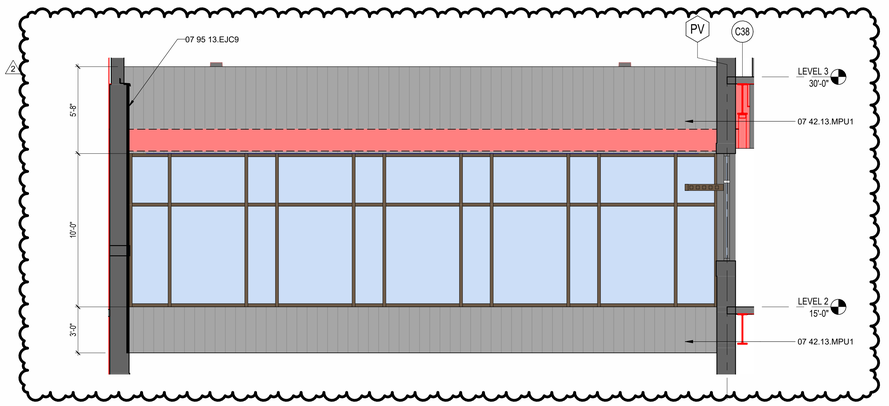
03 EAST MAINSTREET INTERIOR SKYBRIDGE ELEVATION
1/4" = 1'-0"



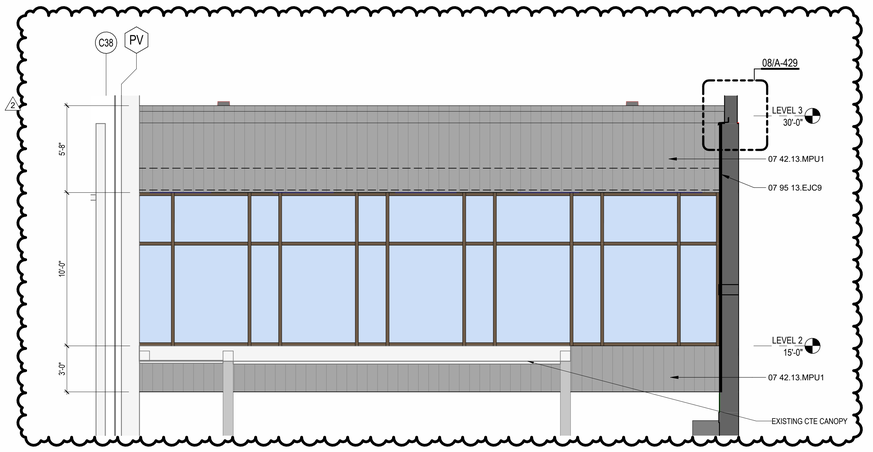
07 SECTION AT SKYBRIDGE
3/8" = 1'-0"



05 SOFFIT DETAIL @ SKYBRIDGE
1 1/2" = 1'-0"



02 SKYBRIDGE - NORTH ELEVATION
1/4" = 1'-0"



01 SKYBRIDGE - SOUTH ELEVATION
1/4" = 1'-0"

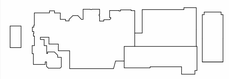
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

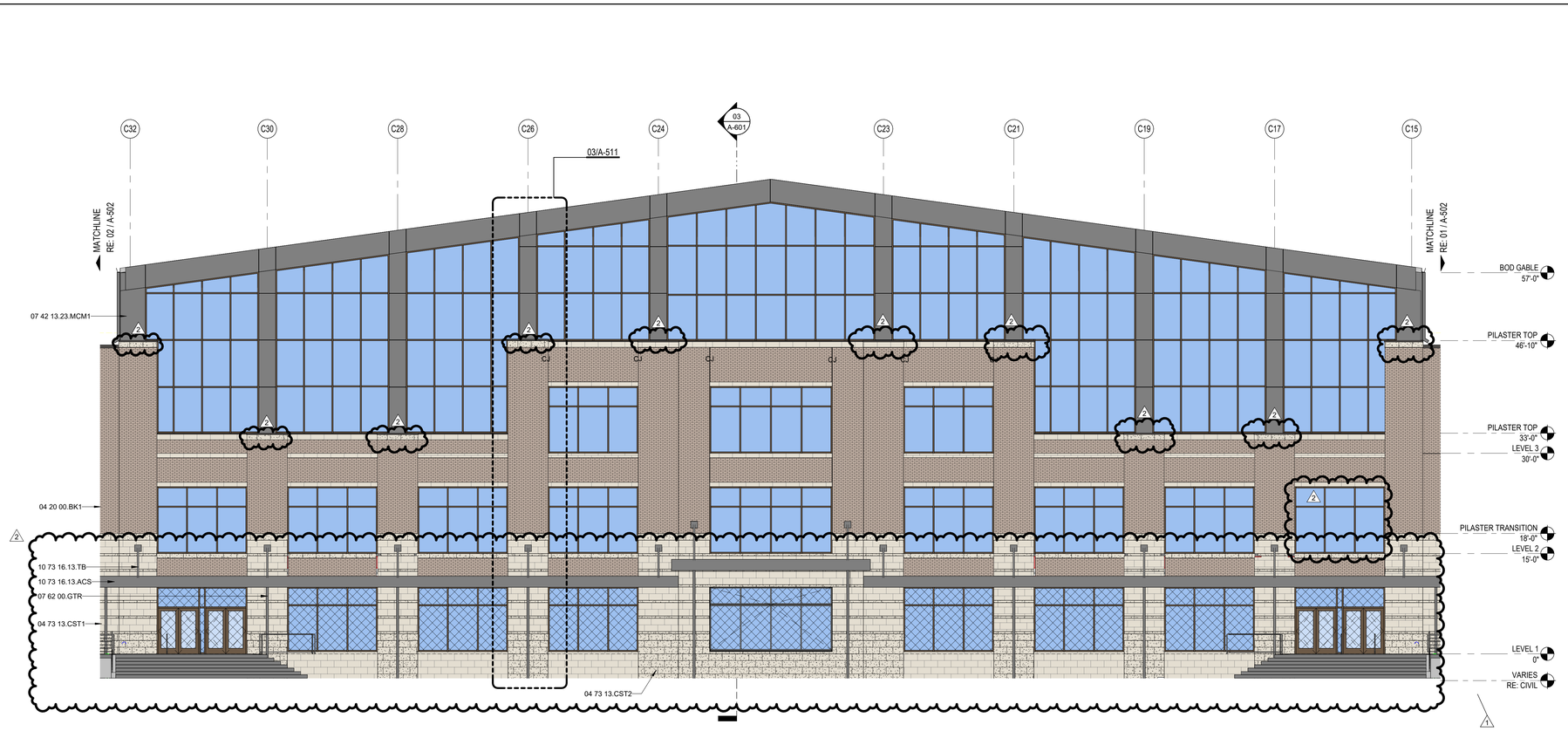
ENLARGED SKYBRIDGE ELEVATIONS & SECTIONS

A-429

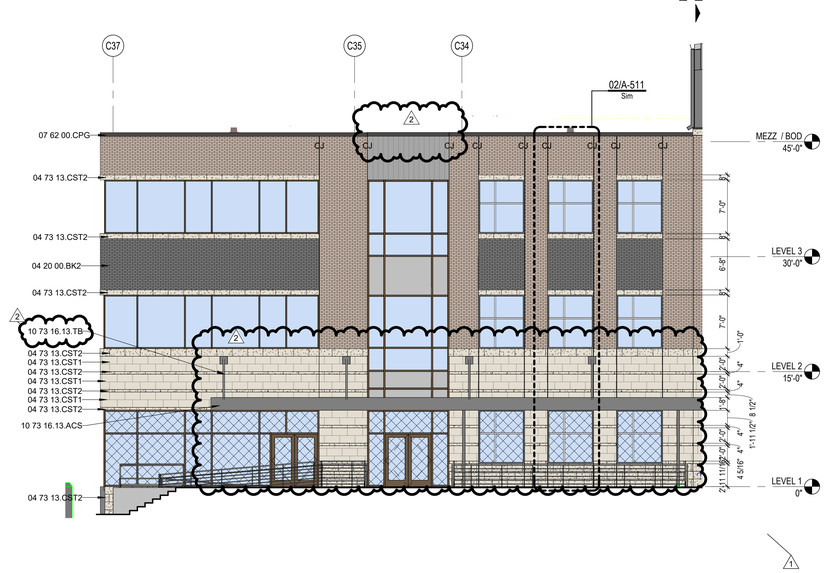
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12/18/2025 6:12:23 PM

EXTERIOR ELEVATIONS
A-502
FOR BLUEBEAM LABELING/DOCR:

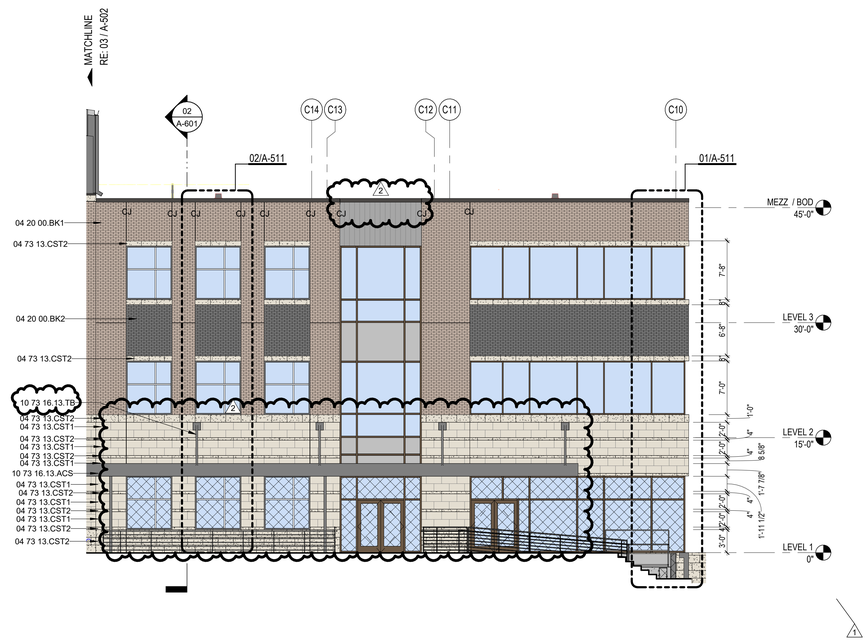
0"
1"



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
07 62 00.GTR	GUTTER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
10 73 16.13.TB	CANOPY TIE BACK, COORD. W/ STRUCT.

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

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

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

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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

EXTERIOR ELEVATIONS

A-502

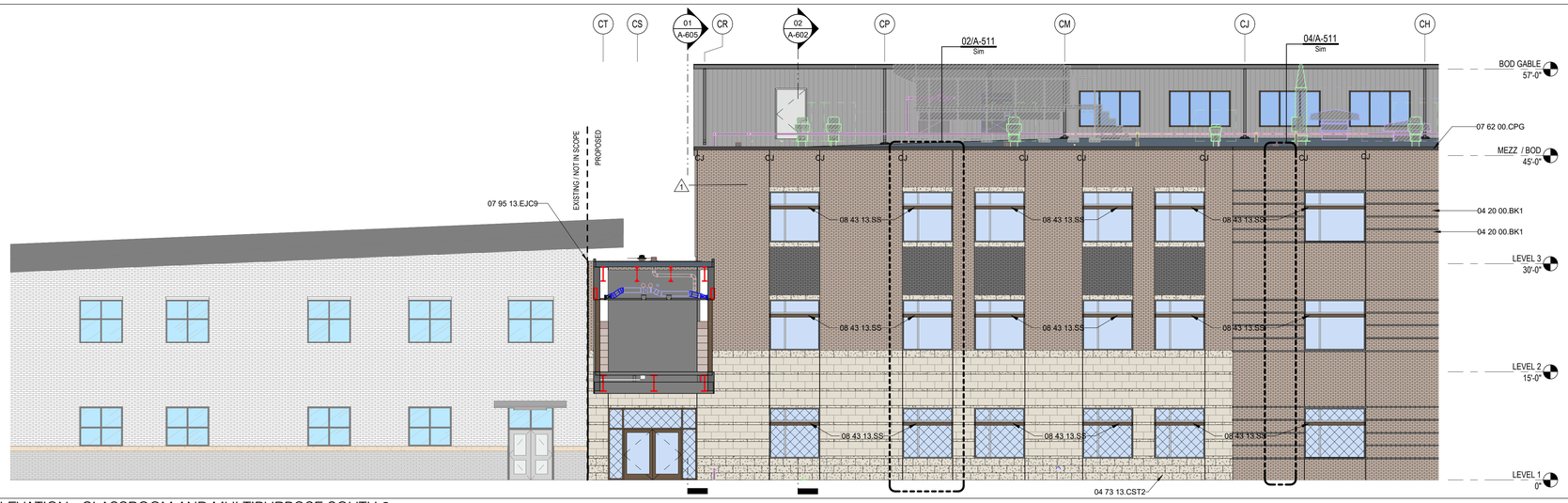
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EXTERIOR ELEVATIONS
A-503

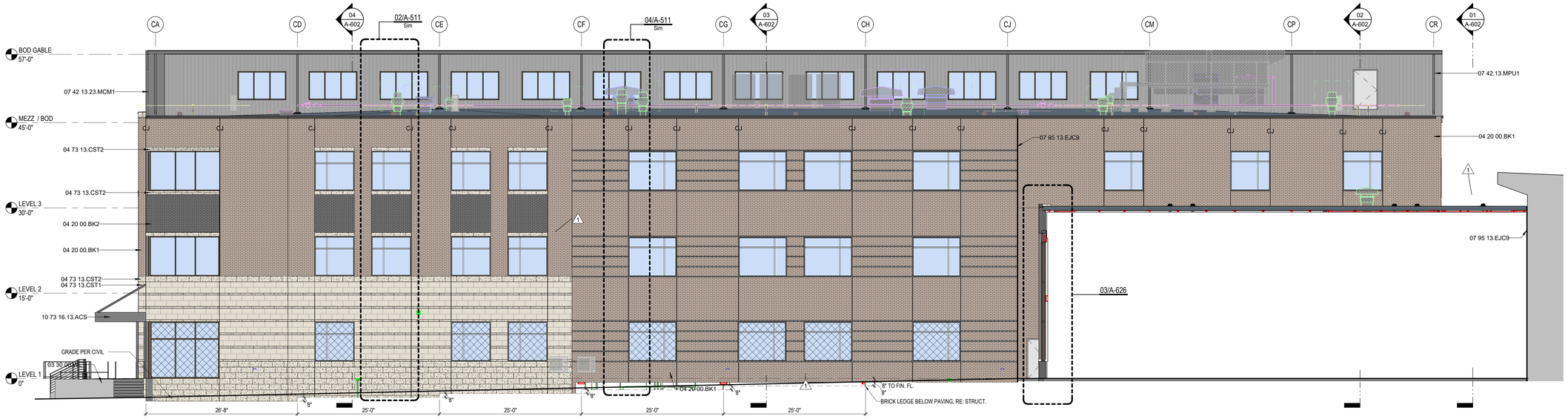
FOR BLUEBEAM LABELING/OCR:



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

GLAZING MATERIALS LEGEND

Gl1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

Gl2
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

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

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JON LEPICOVSKY
25572
STATE OF TEXAS

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

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

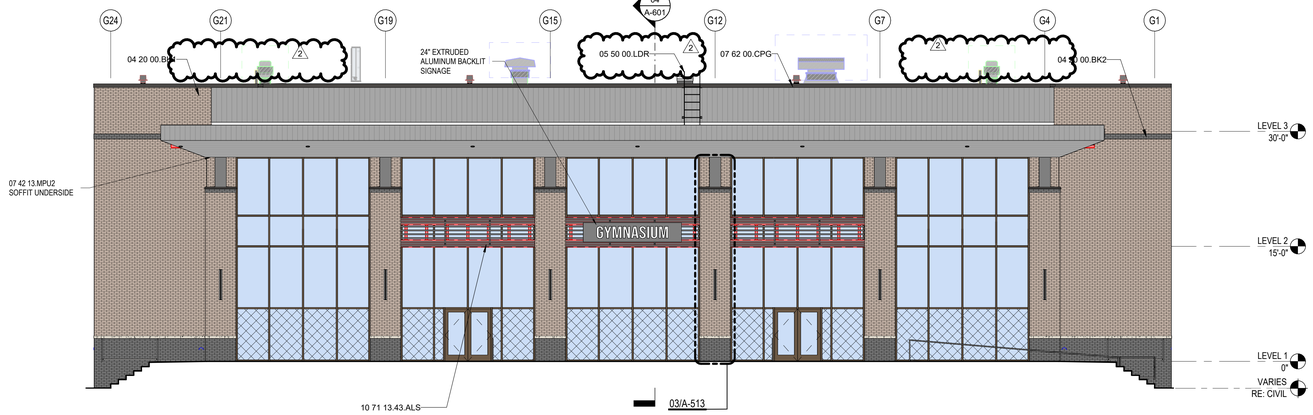
EXTERIOR ELEVATIONS

A-503

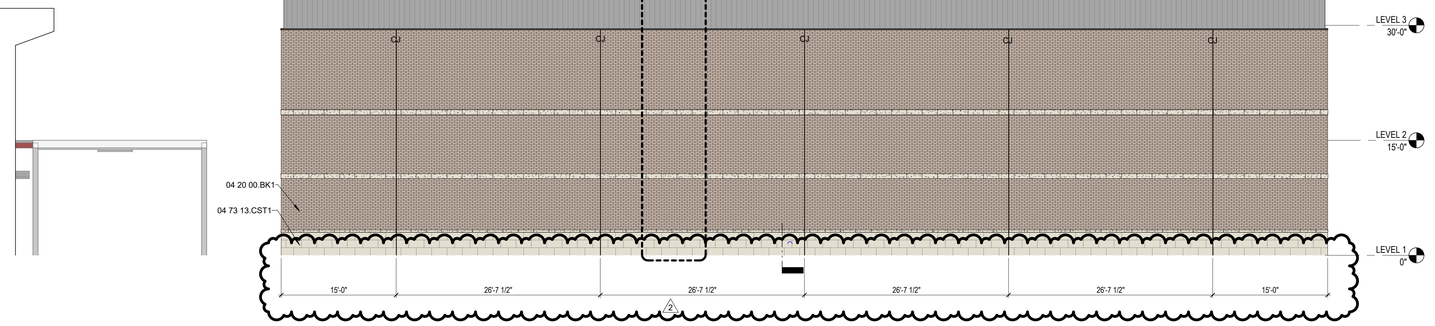
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A-504
FOR BLUEBEAM LABELING/DOCR:

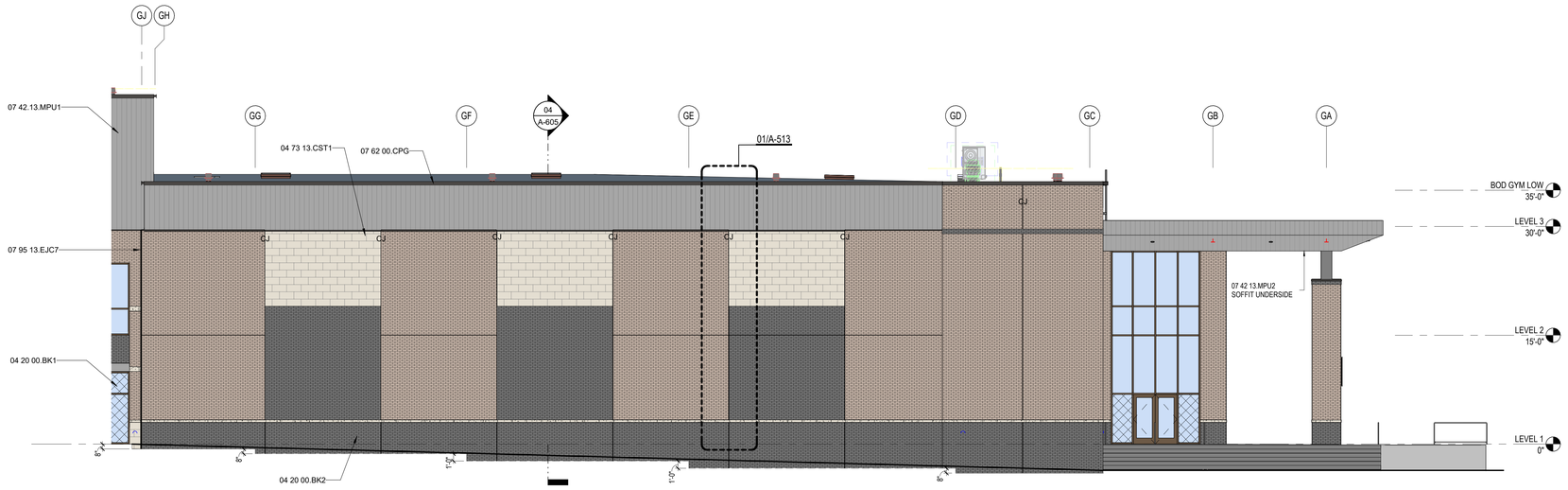
0"
1"



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	
05 50 00.LDR	STEEL LADDER
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

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

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

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

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

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

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

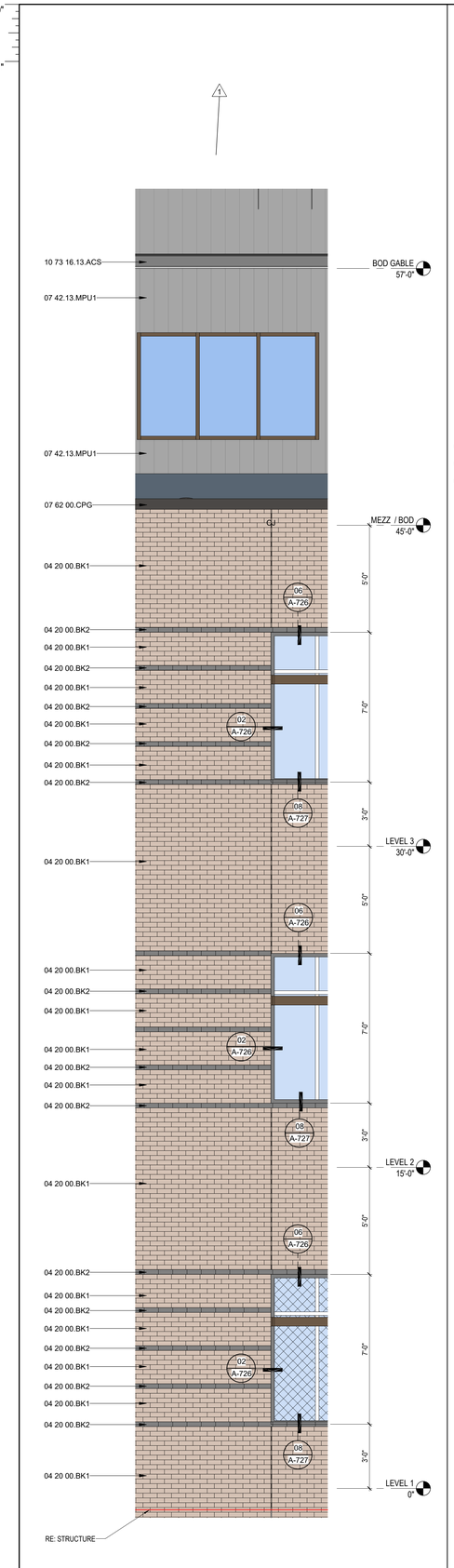
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EXTERIOR ELEVATIONS

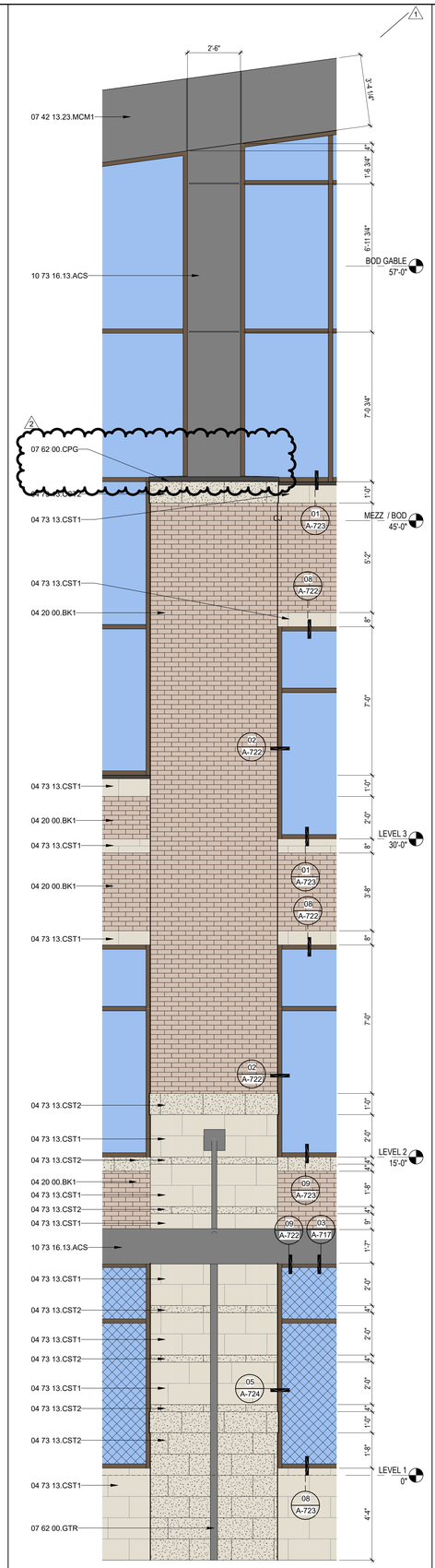
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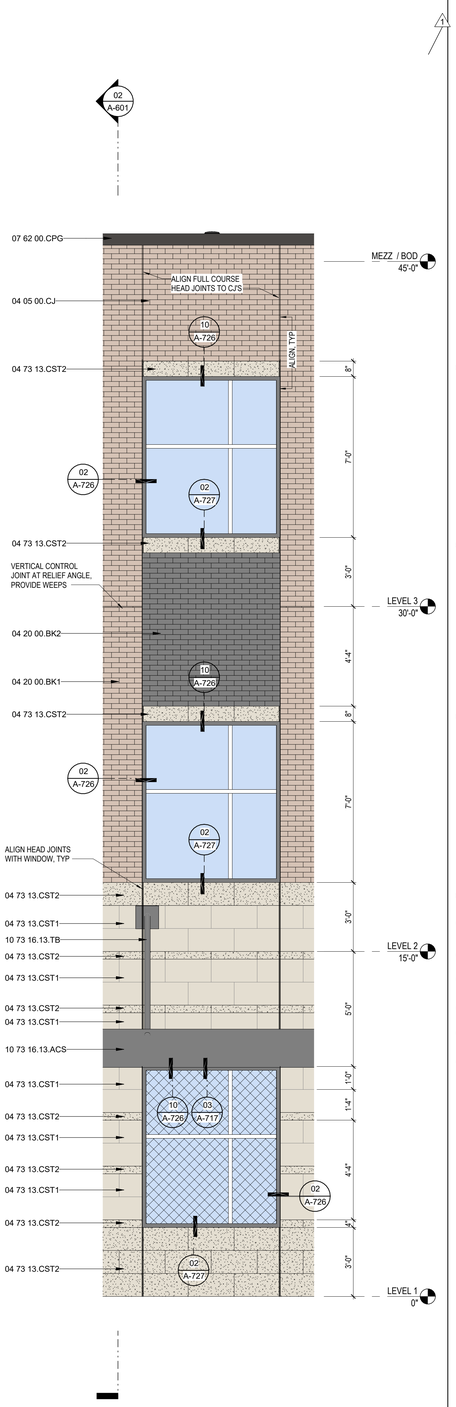
ENLARGED EXTERIOR ELEVATIONS
A-511
FOR BLUEBEAM LABELING/DOCR:



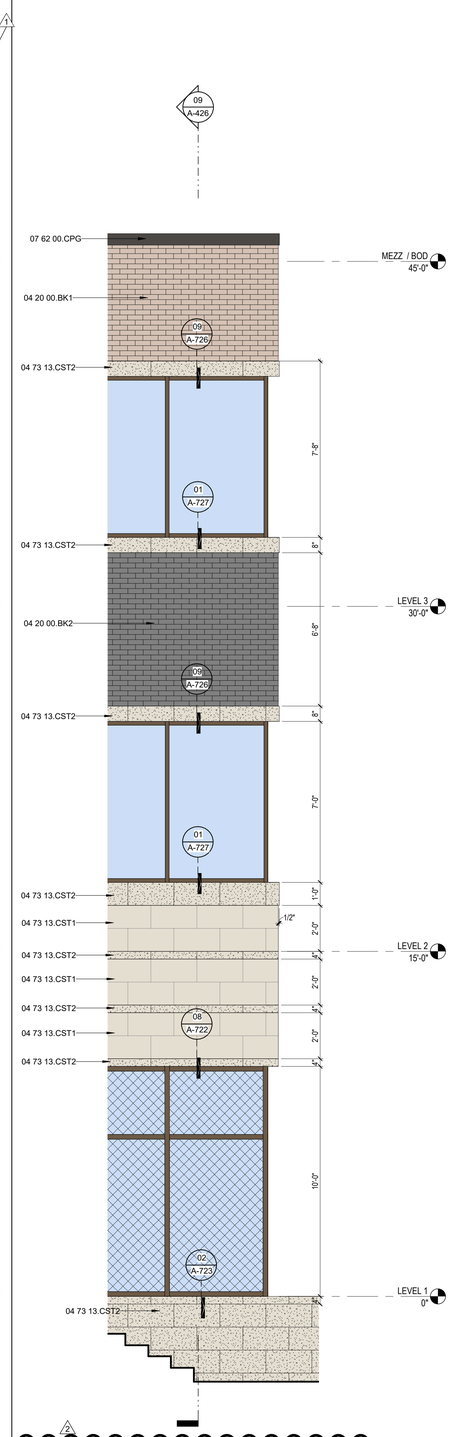
04 ENLG EXT ELEVATION - CLSRM & MULTIPRSE SOUTH 0
3/8" = 1'-0"



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.
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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.
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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 13.23.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 62 00.GTR	GUTTER
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

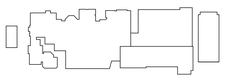
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HOUSTON, TX
713-865-0008

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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: KMc

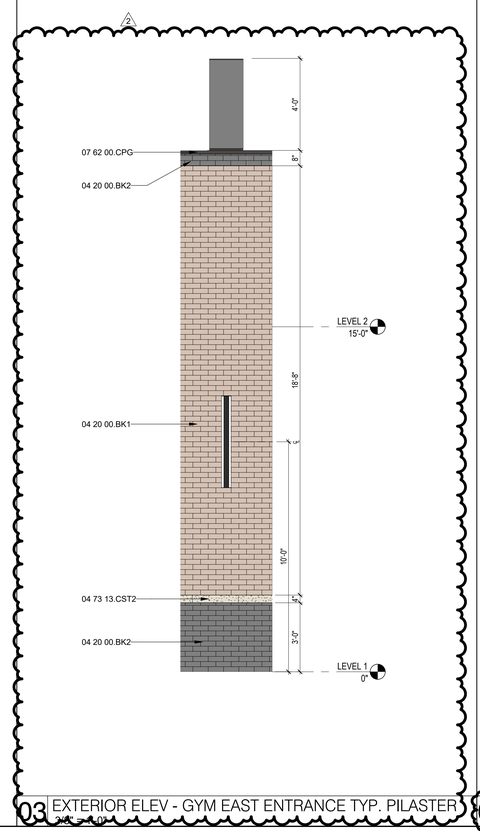
ENLARGED EXTERIOR ELEVATIONS

A-511

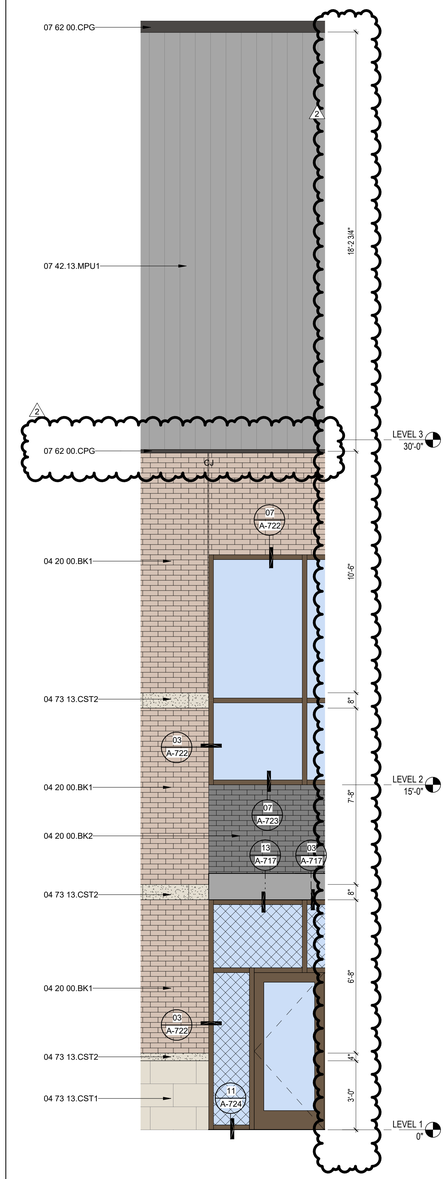
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12/18/2025 6:13:30 PM

0"
1"

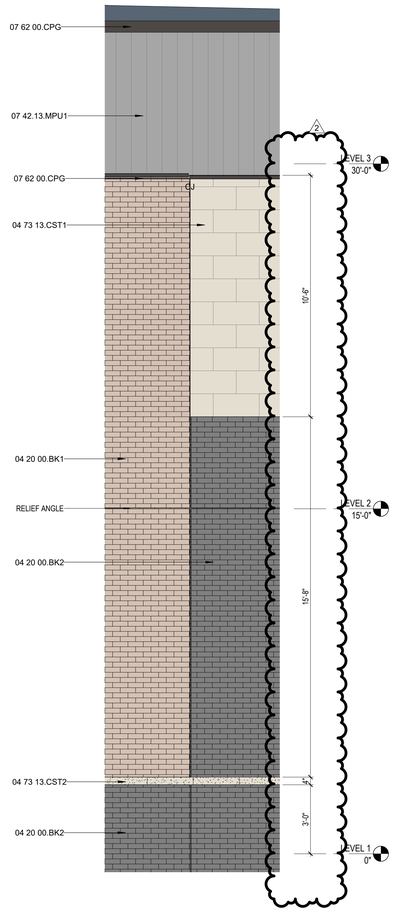
ENLARGED EXTERIOR ELEVATIONS
A-513
FOR BLUEBEAM LABELING/OCR:



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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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
JAN LEPICOVSKY
25572
REGISTERED ARCHITECT

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: KMc

ENLARGED EXTERIOR ELEVATIONS

A-513

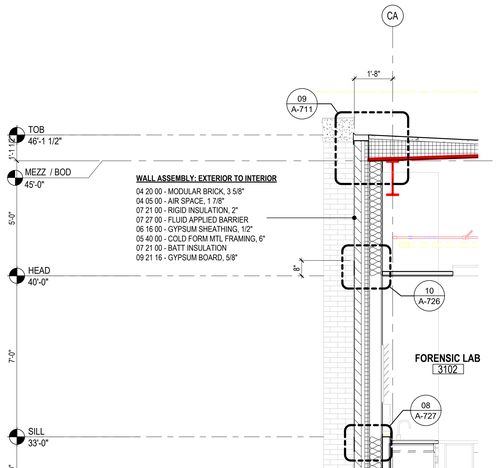
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WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/DOOR:

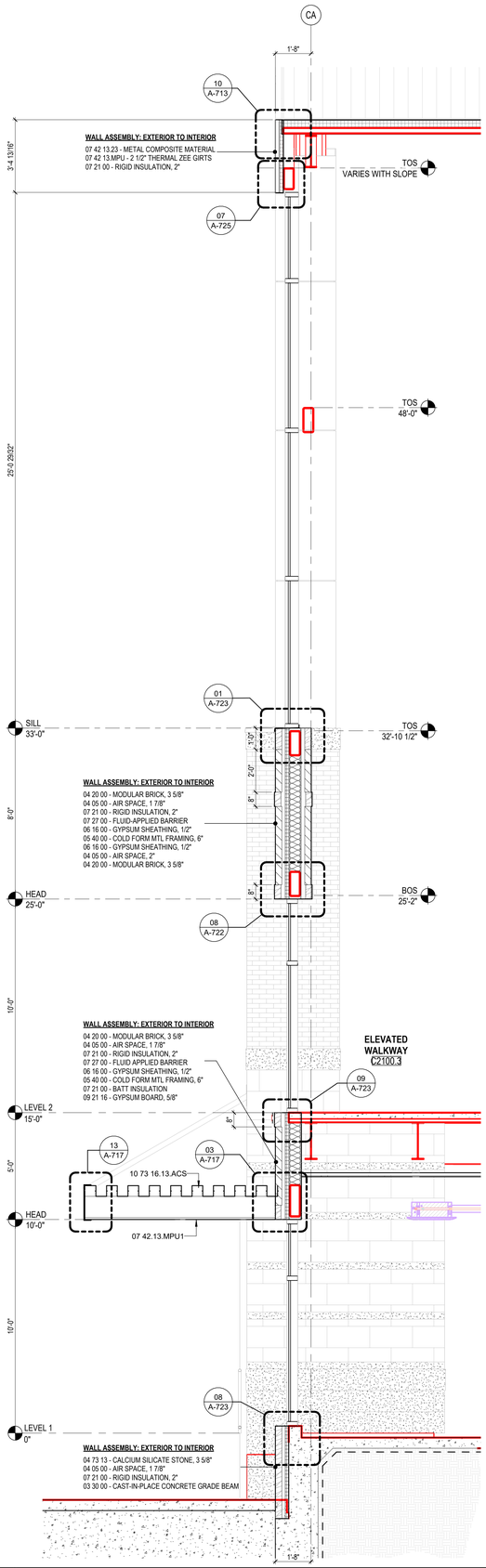
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1"

KEYNOTE LEGEND

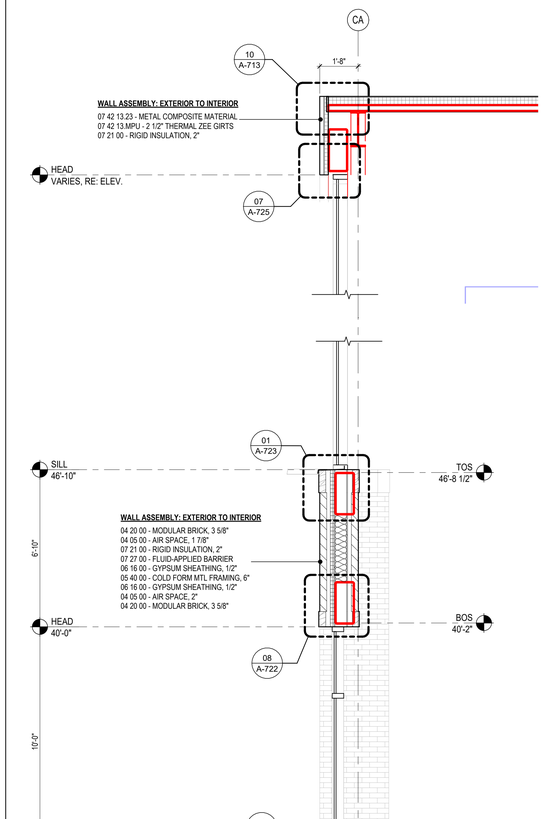
NUMBER	DESCRIPTION
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 81 23.IIC	INTERIOR INTUMESCENT COATING
08 36 13.ISD	INSULATED STEEL SECTIONAL DOOR
09 21 16.GCX	GYPSUM CEILING BOARD, 5/8" TYPE X FOR NON-RATED CEILING ASSEMBLIES
10.73 16.13.ACS	ALUMINUM CANOPY SYSTEM



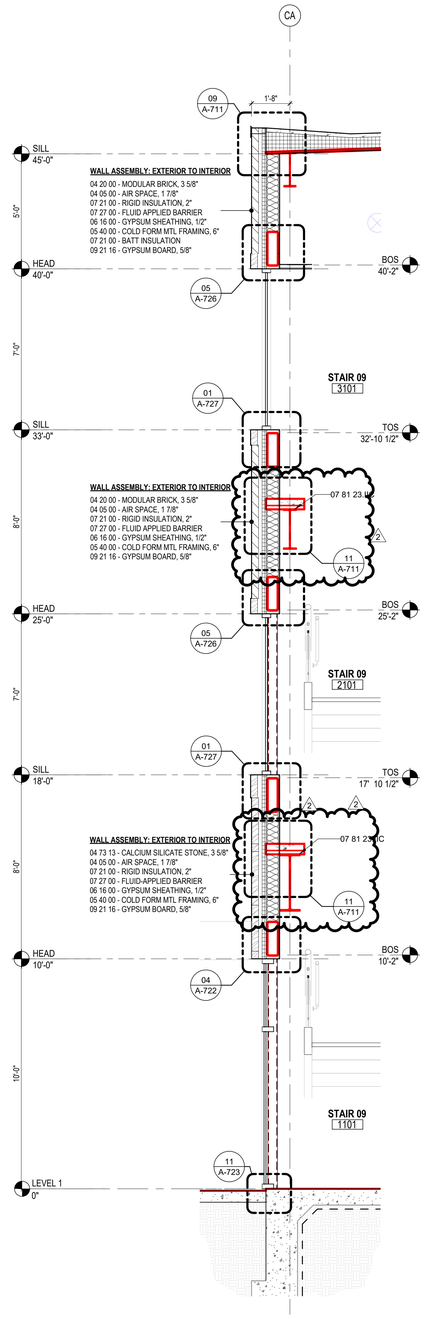
04 WALL SECTION @ EAST ELEV - 04
3/8" = 1'-0"



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:
12/18/2025 6:13:36 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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: LG

WALL SECTIONS

A-621

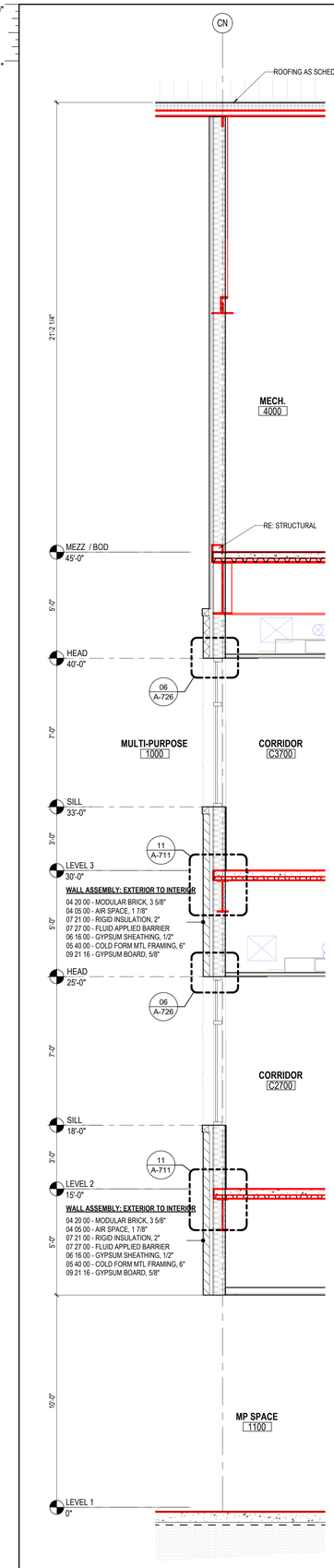
WALL SECTIONS
A-623

FOR BLUEBEAM LABELING/OCR:

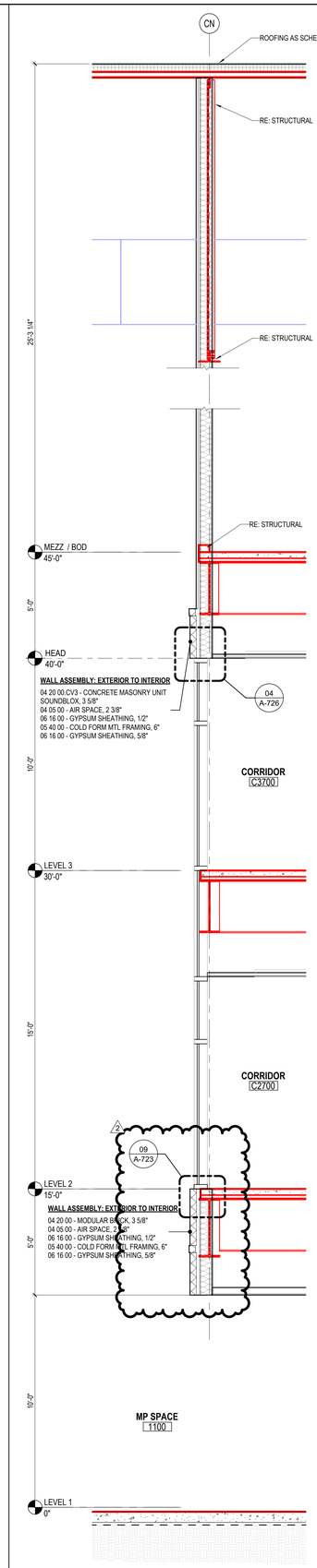
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KEYNOTE LEGEND

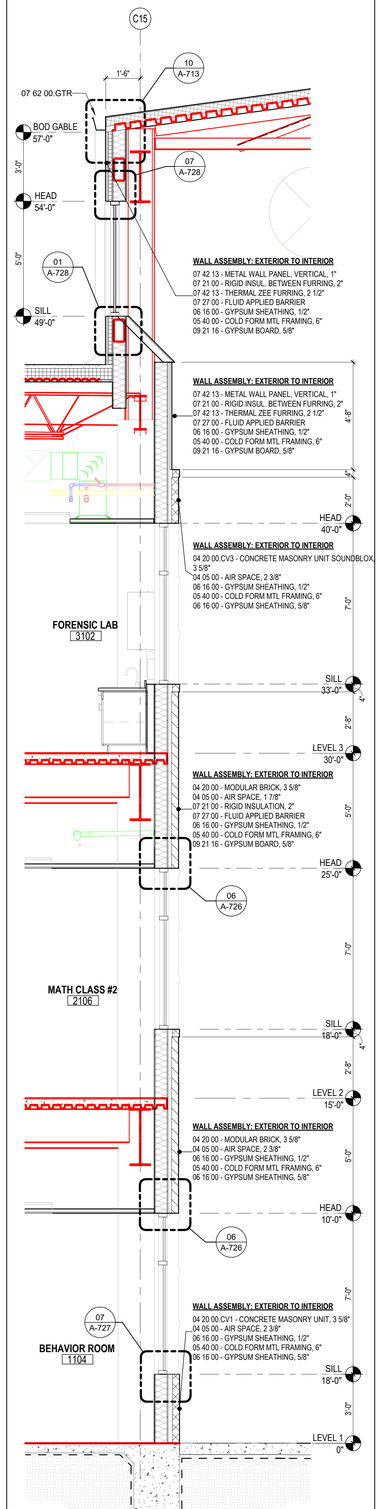
NUMBER	DESCRIPTION
04 73 13.CST2	
07 42 13.23.MCM1	ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL, TYPE 1 - [DARK BRONZE]
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM



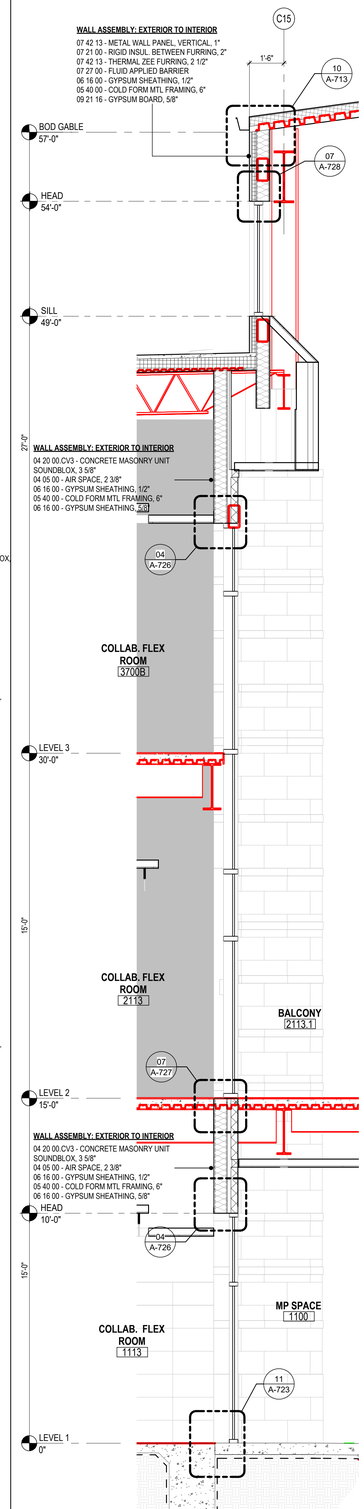
06 WALL SECTION @ MPF WEST WALL - 2
3/8" = 1'-0"



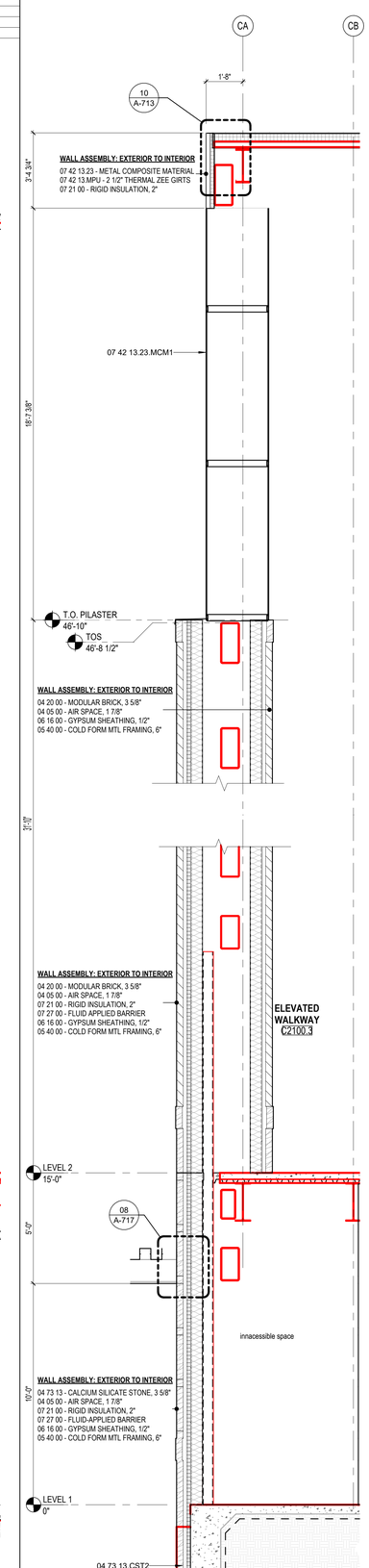
05 WALL SECTION @ MPF WEST WALL
3/8" = 1'-0"



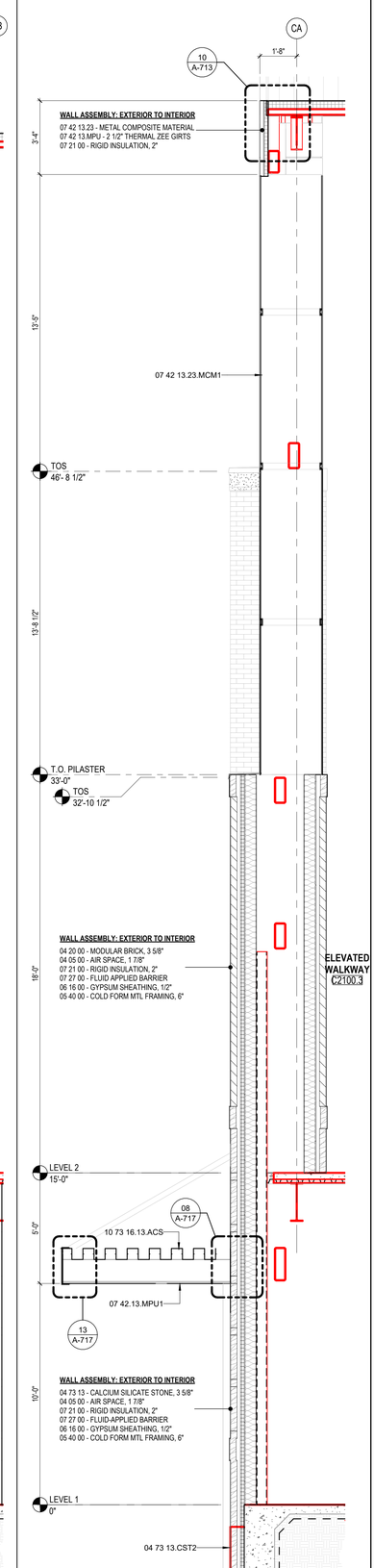
04 WALL SECTION @ MPF / CLASSROOMS
3/8" = 1'-0"



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"

Plot Stamp:
12/18/2025 6:13:44 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

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

WALL SECTIONS

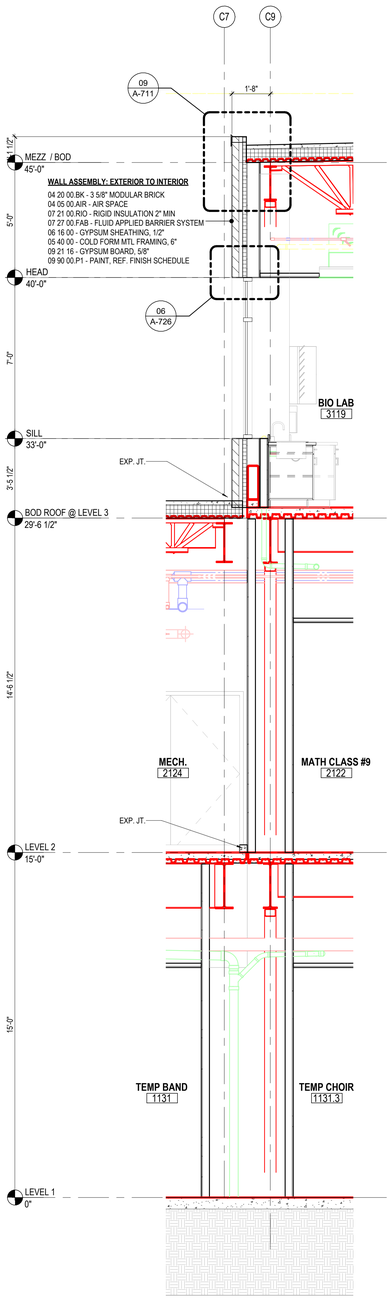
A-623

WALL SECTIONS
A-626
FOR BLUEBEAM LABELING/OCR:

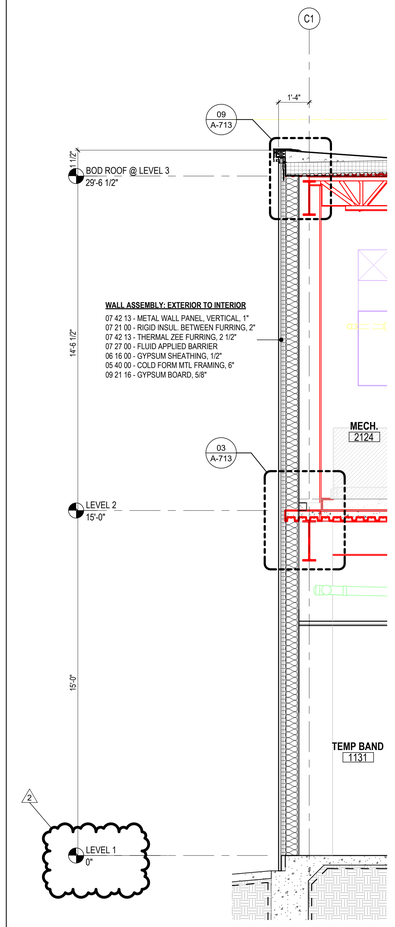
0"
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KEYNOTE LEGEND

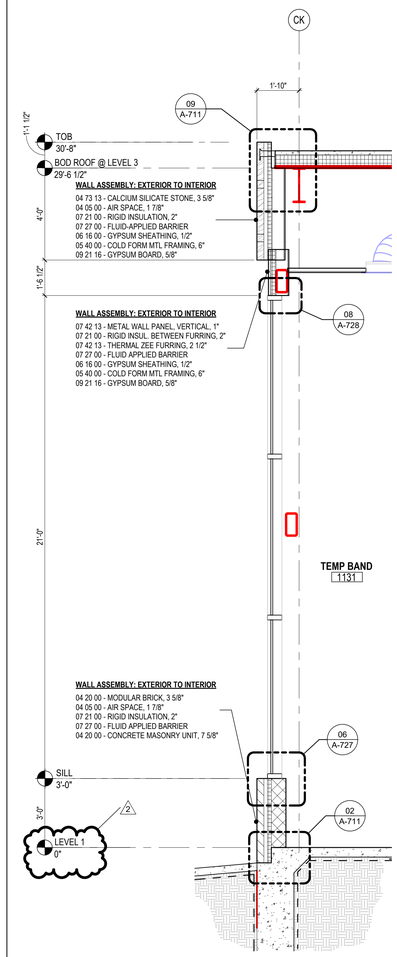
NUMBER	DESCRIPTION



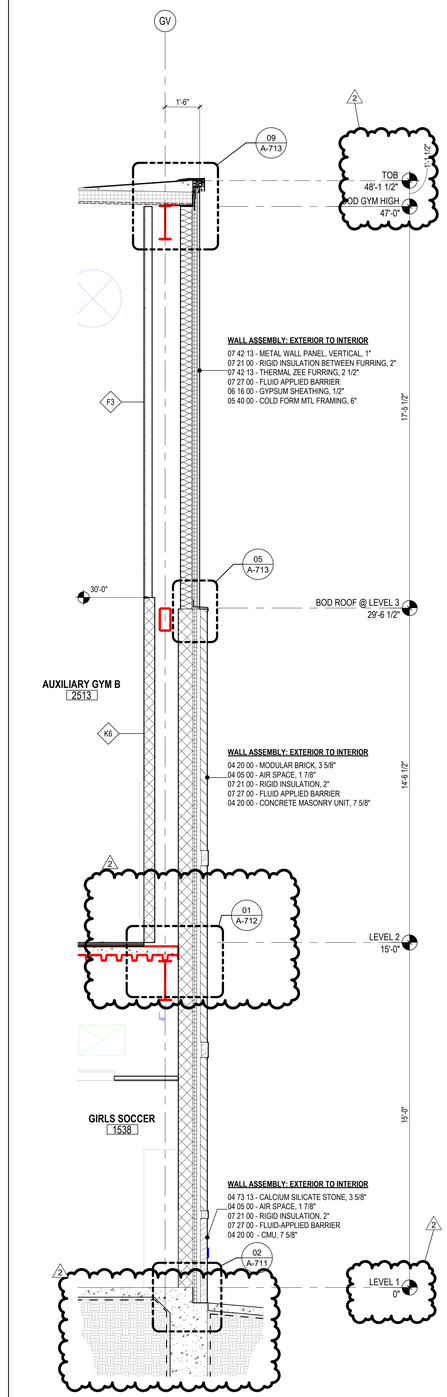
05 WALL SECTION @ LIBRARY AND ACADEMIC
3/8" = 1'-0"



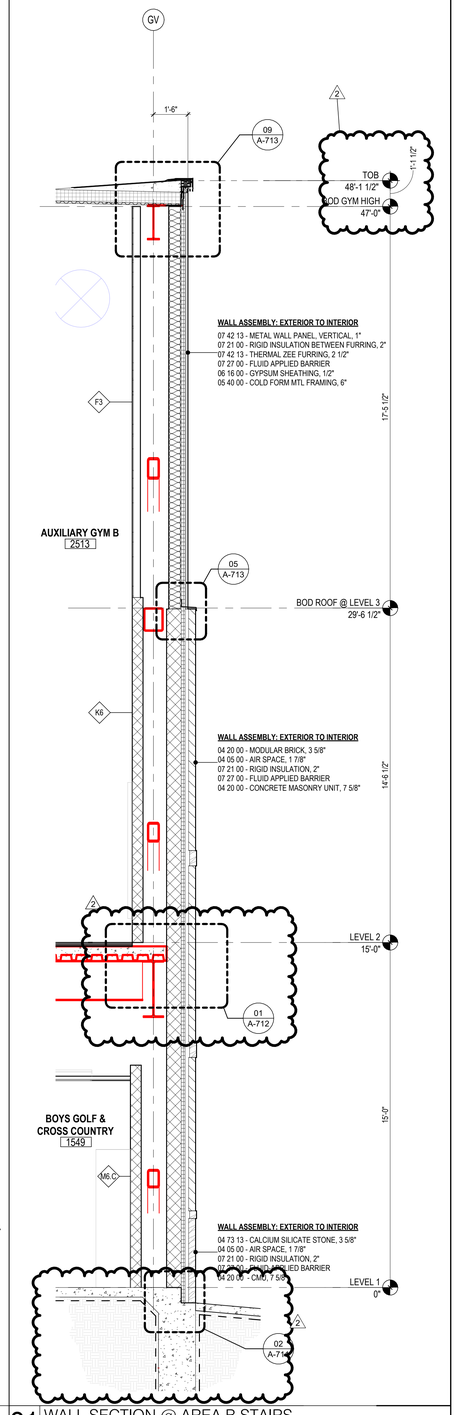
04 WALL SECTION @ LIBRARY - NORTH
3/8" = 1'-0"



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"

Plot Stamp:
12/18/2025 6:13:52 PM

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

1000 Keene St.
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ISSUE FOR PROPOSAL

KEY PLAN
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REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
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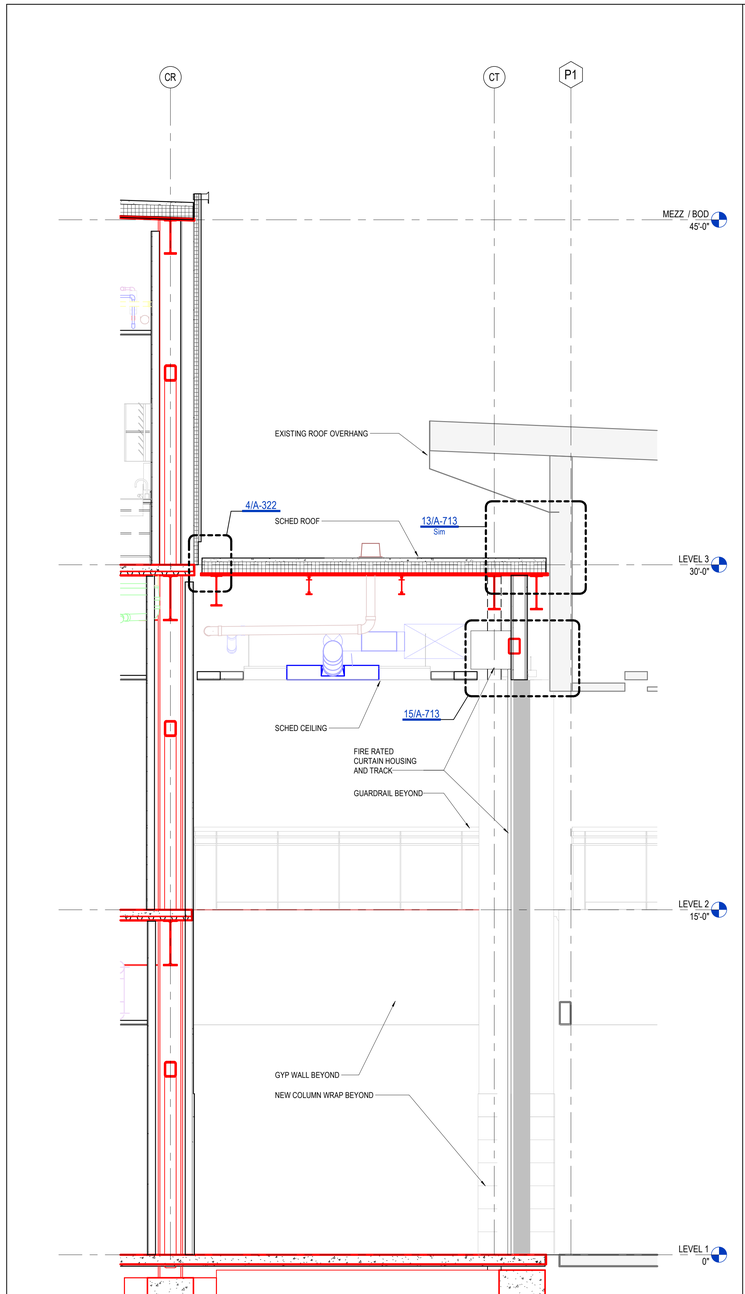
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WALL SECTIONS

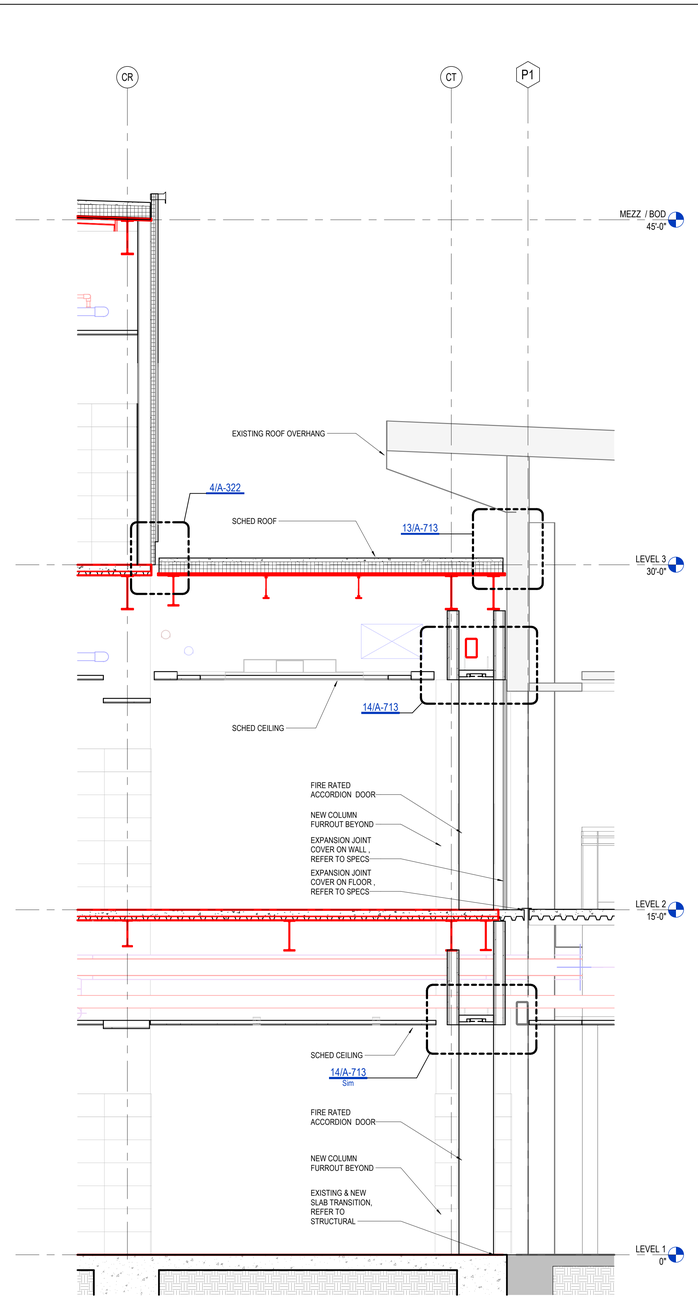
A-626

WALL SECTIONS
A-628
FOR BLUEBEAM LABELING/OCR:

0"
1"



02 WALL SECTION AT FIRE CURTAIN
3/8" = 1'-0"



01 WALL SECTION AT INTERIOR BRIDGE
3/8" = 1'-0"

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

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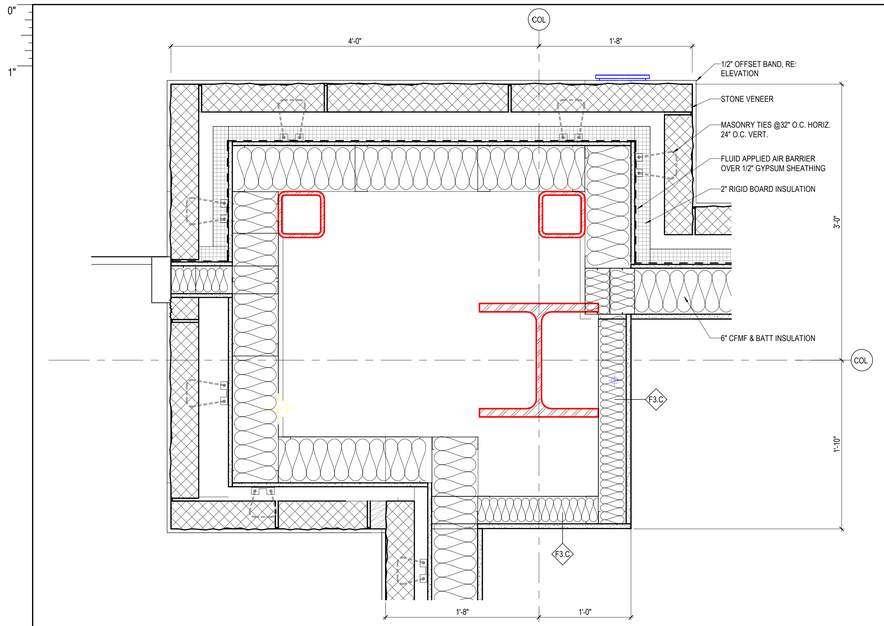
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WALL SECTIONS

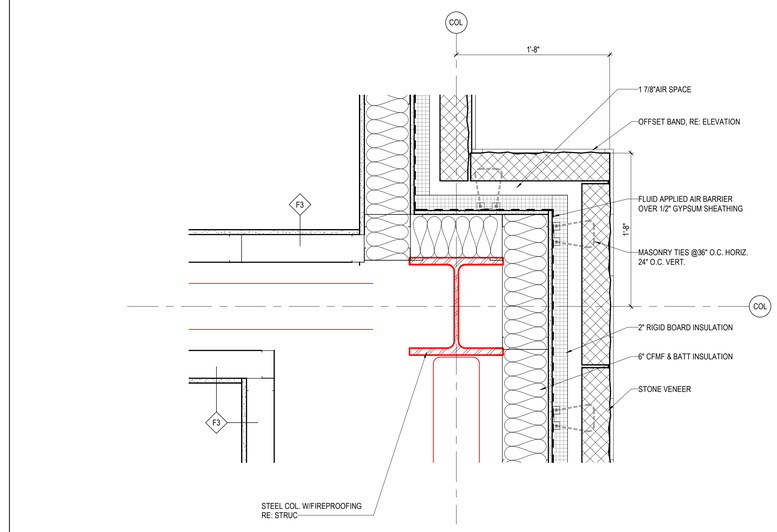
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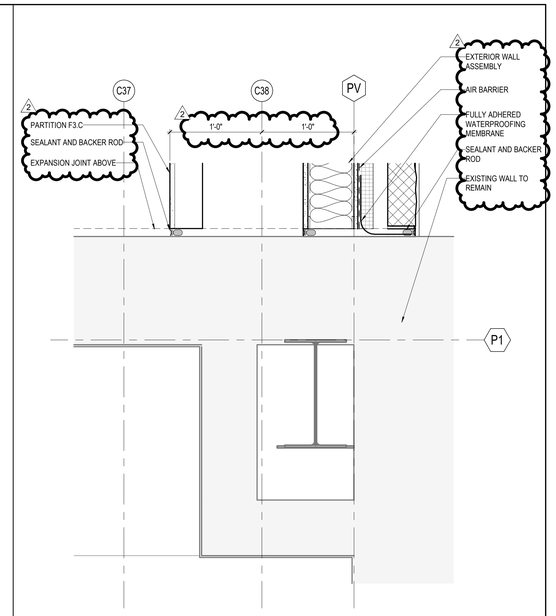
PLAN DETAILS
A-702
FOR BLUEBEAM LABELING/OCR:



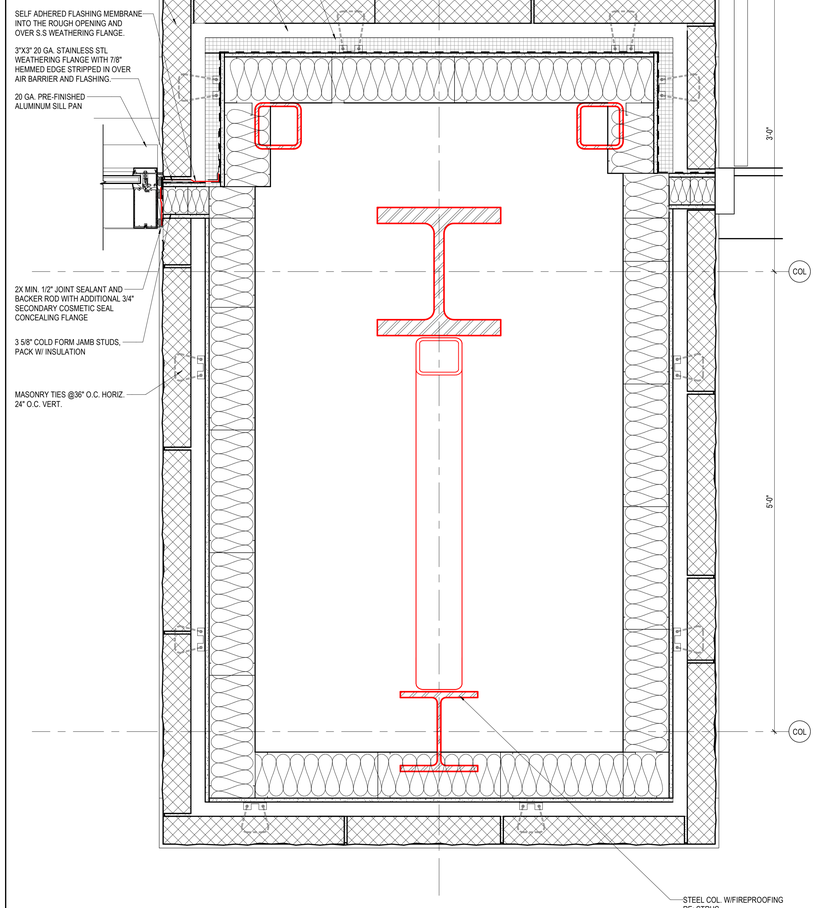
05 LEVEL 1 - EXTERIOR PILASTER DETAIL
1 1/2" = 1'-0"



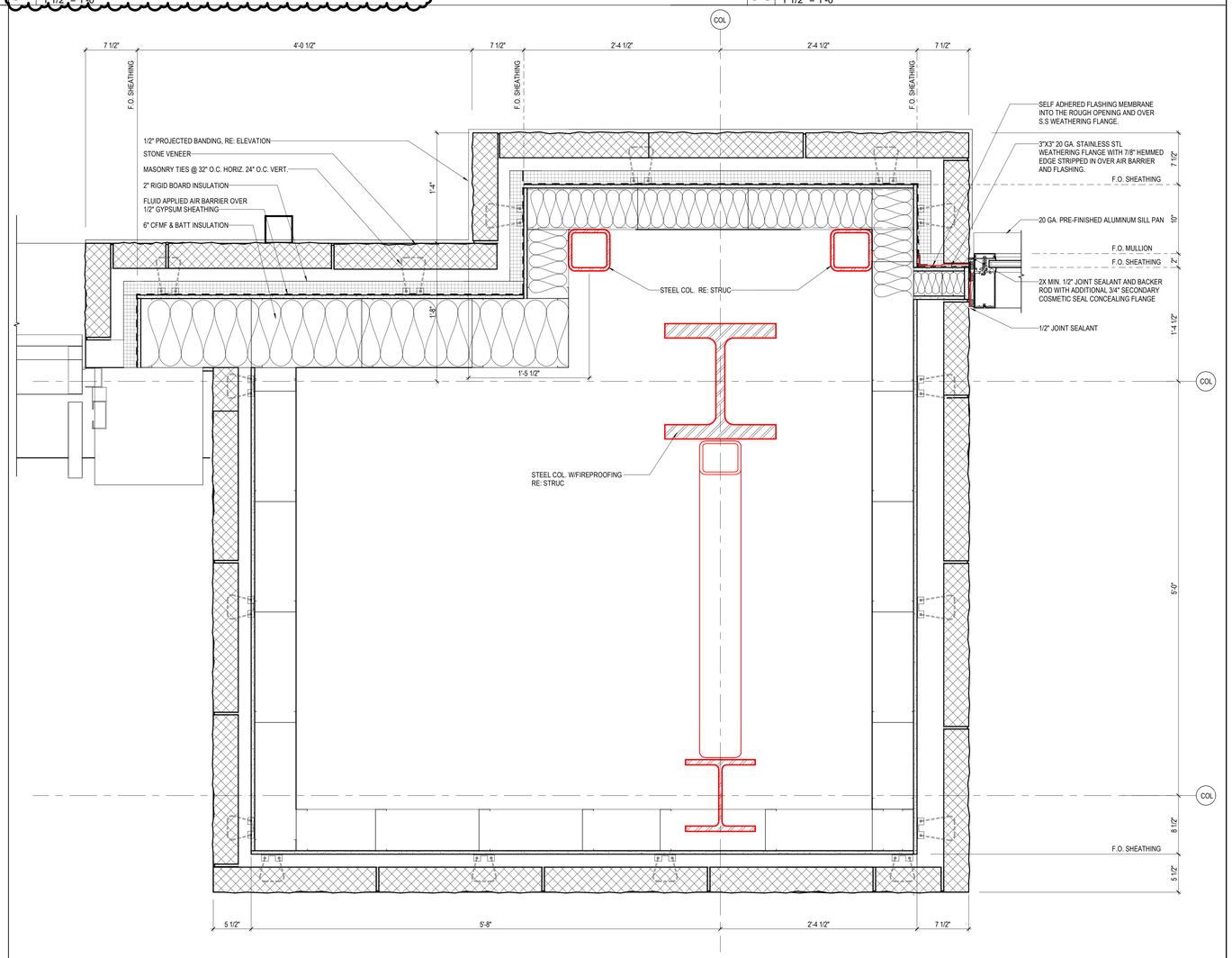
04 LEVEL 1 - AREA C - EXTERIOR BUMP OUT @ CLASSROOM
1 1/2" = 1'-0"



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"

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

1000 Keene St.
Galena Park, TX 77547

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713-366-0808

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STATE OF TEXAS
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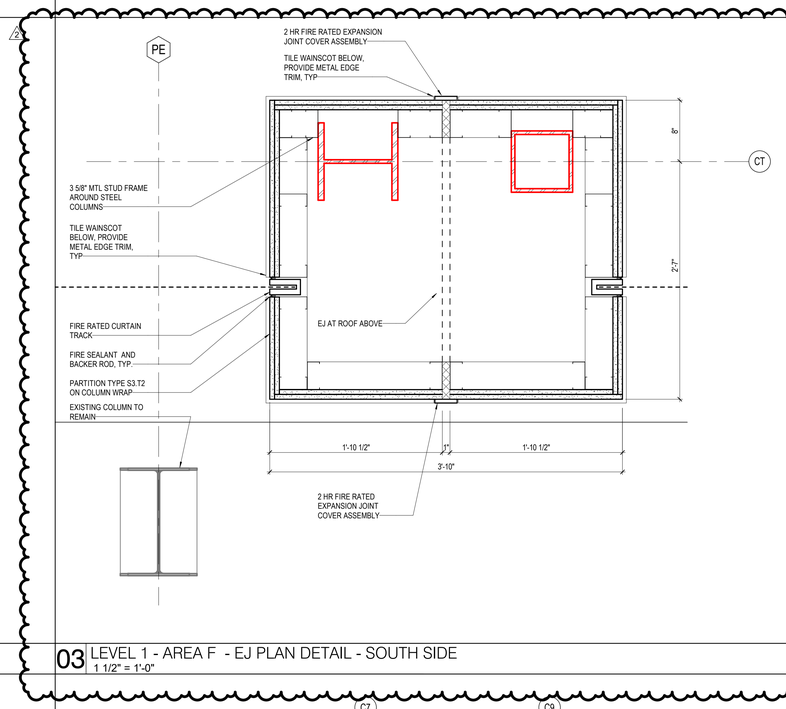
CHECKED BY: Checker
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PLAN DETAILS

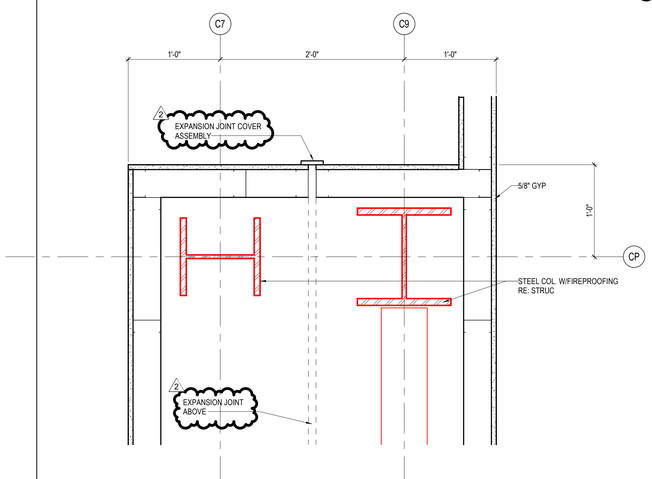
A-702

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12/19/2025 11:59:00 AM

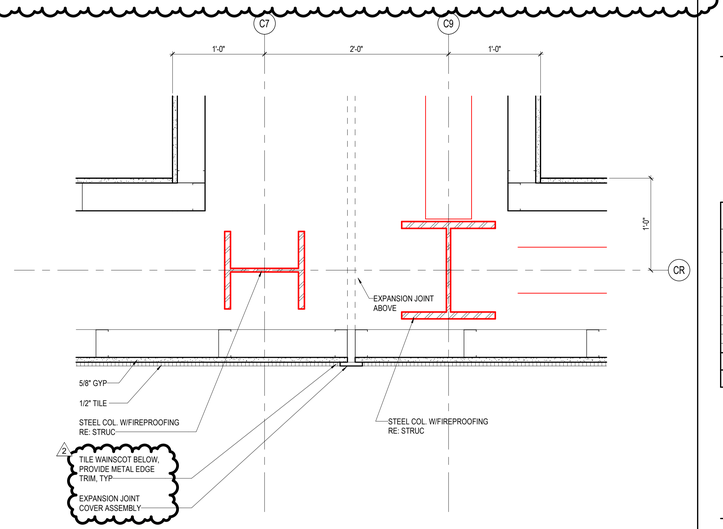
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03 LEVEL 1 - AREA F - EJ PLAN DETAIL - SOUTH SIDE
1 1/2" = 1'-0"



02 LEVEL 1 - AREA F - EJ DETAIL 02
1 1/2" = 1'-0"



01 LEVEL 1 - AREA F - EJ DETAIL 01
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

JAN LEPICOVSKY
REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
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2	ADD 03	2025/12/19

CHECKED BY: Checker

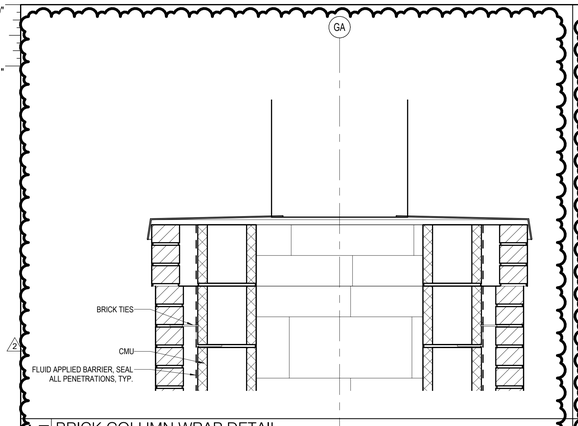
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PLAN DETAILS

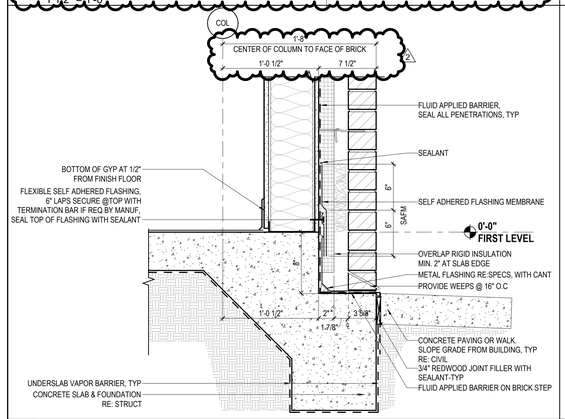
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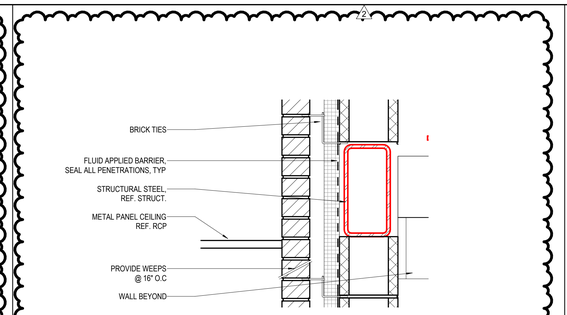
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MASONRY WALL SECTION DETAILS
A-711
FOR BLUEBEAM LABELING/DOOR:

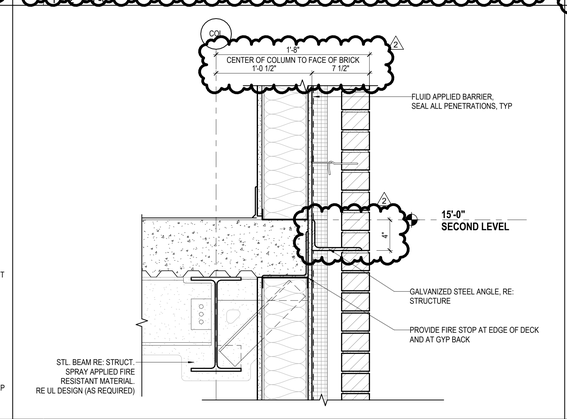


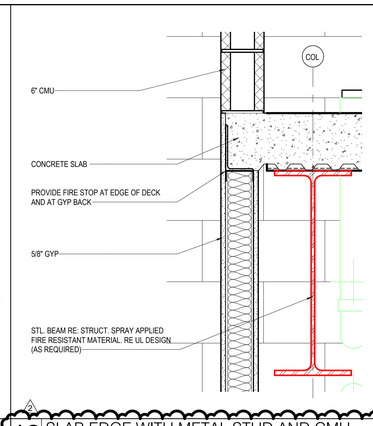
15 BRICK COLUMN WRAP DETAIL
1 1/2" = 1'-0"



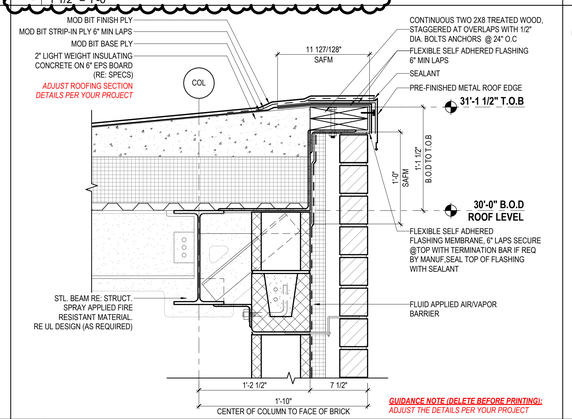


14 BRICK ON CMU @ STEEL AND CEILING
1 1/2" = 1'-0"

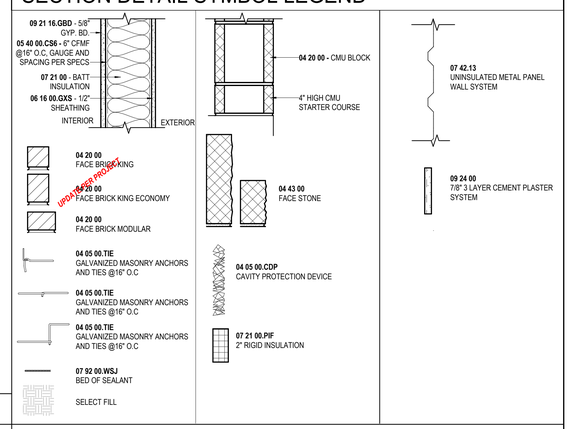


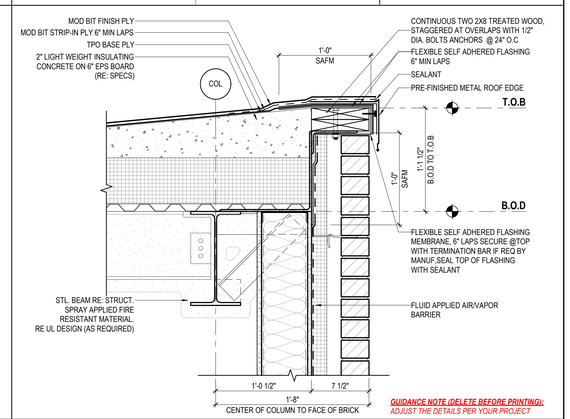


13 SLAB EDGE WITH METAL STUD AND CMU
1 1/2" = 1'-0"

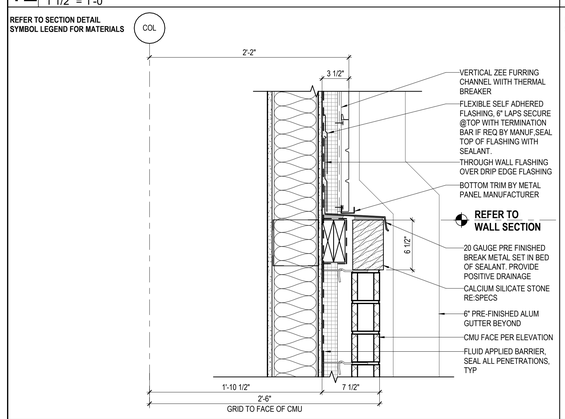


SECTION DETAIL SYMBOL LEGEND

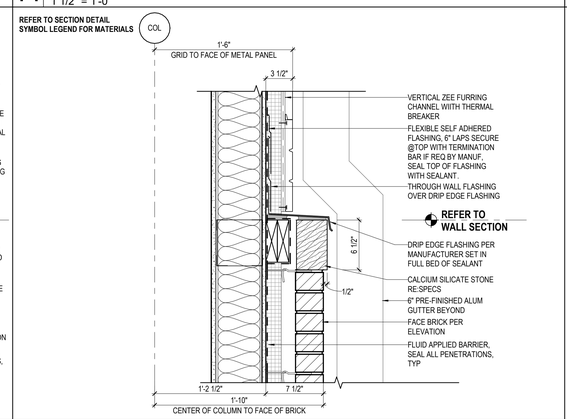




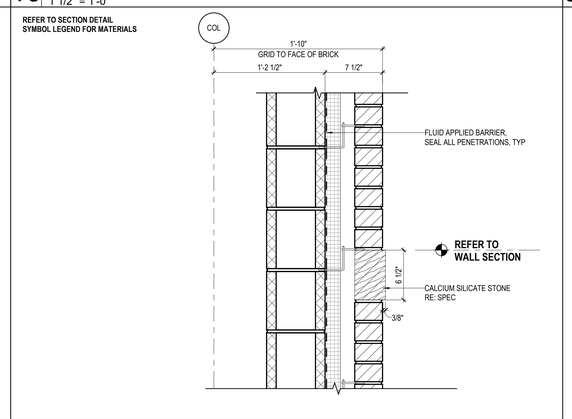
09 MODULAR BRICK ROOF EDGE WITH CFMF
1 1/2" = 1'-0"



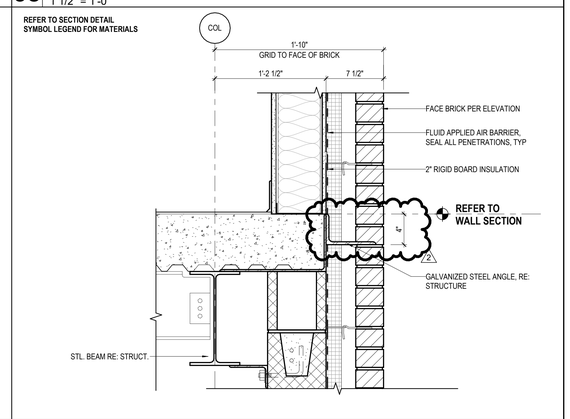
08 CMU TRANSITION TO METAL PANEL
1 1/2" = 1'-0"



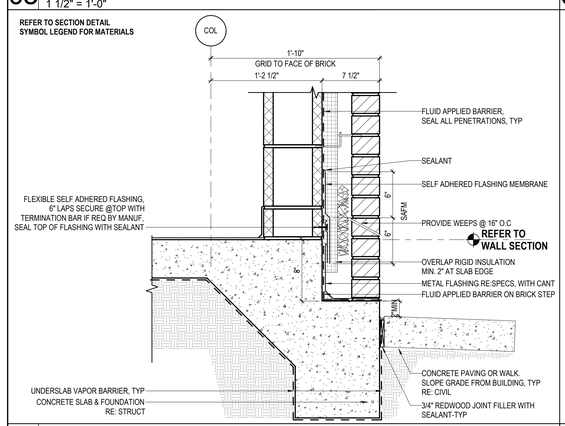
07 BRICK TRANSITION TO METAL PANEL
1 1/2" = 1'-0"



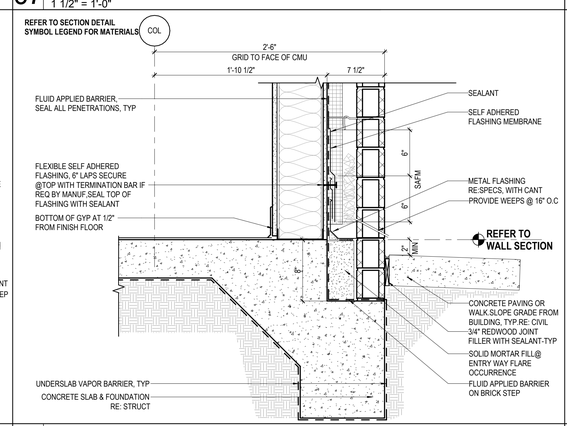
06 BRICK WALL WITH STONE @CMU
1 1/2" = 1'-0"



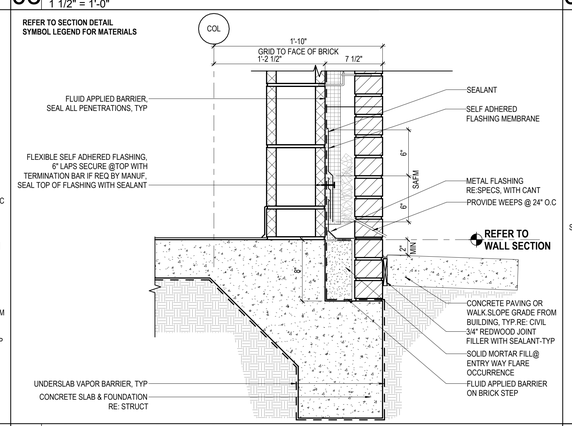
05 SLAB EDGE WITH CFMF AND BRICK
1 1/2" = 1'-0"



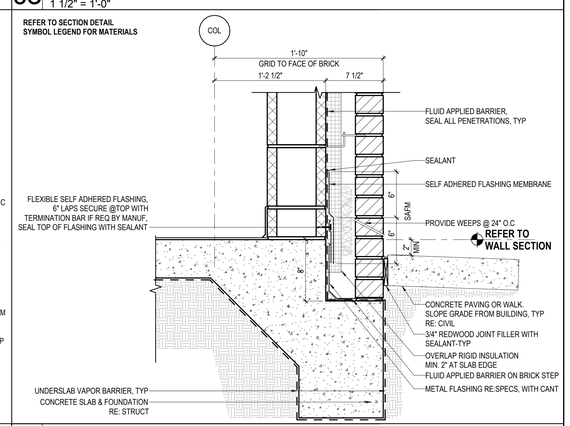
04 MODULAR BRICK LEDGE WITH CMU BELOW GRADE
1 1/2" = 1'-0"



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"

Plot Stamp:
12/18/2025 6:14:07 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
STATE OF TEXAS
JOHN LEPICOVSKY
25572

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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: AE

MASONRY WALL SECTION DETAILS

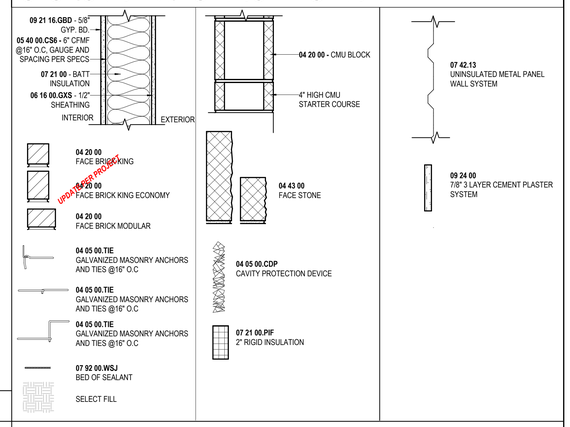
A-711

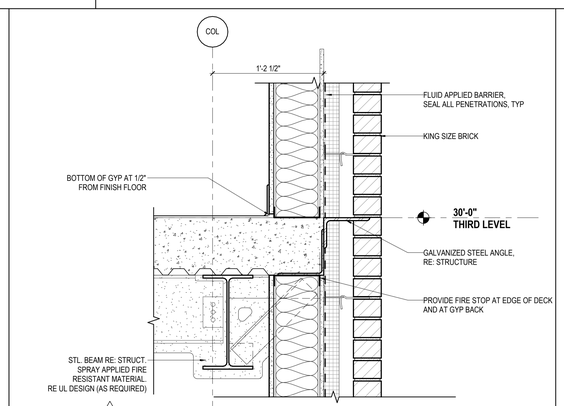
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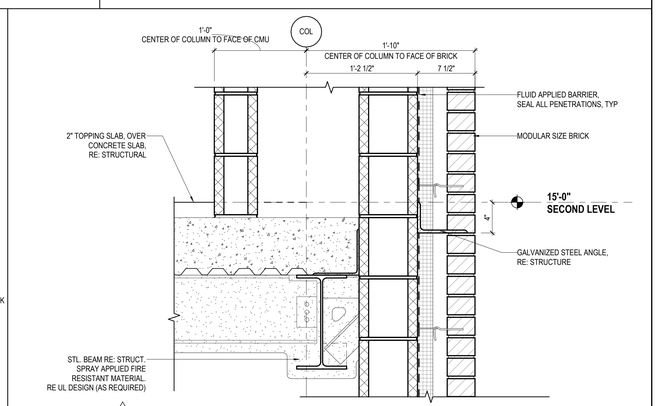
MASONRY WALL SECTION DETAILS
A-712
FOR BLUEBEAM LABELING/OCR:

SECTION DETAIL SYMBOL LEGEND





02 MODULAR BRICK SLAB EDGE WITH CFMF - STEEL ANGLE
1 1/2" = 1'-0"



01 SLAB TO CMU WALL CONNECTION
1 1/2" = 1'-0"

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

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Galena Park, TX 77547

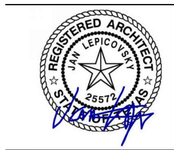
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN = TRUE





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

DRAWING HISTORY

No.	Description	Date
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CHECKED BY: Checker

DRAWN BY: AE

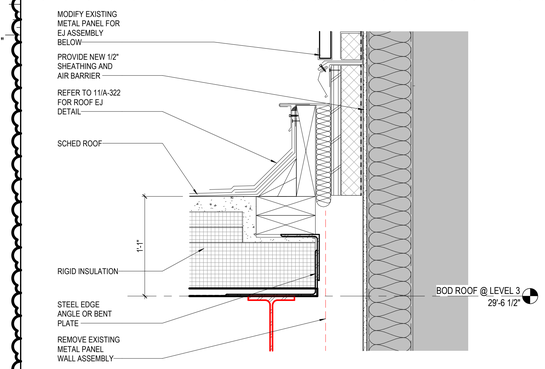
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MASONRY WALL SECTION DETAILS

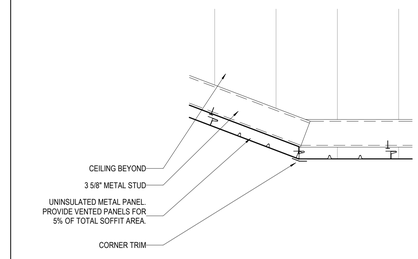
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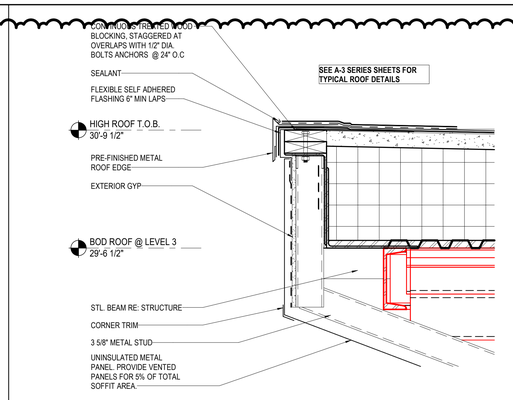
METAL PANEL WALL SECTION DETAILS
A-713
FOR BLUEBEAM LABELING/OCR:



13 WALL SECTION @ EJ AT ROOF
1 1/2" = 1'-0"

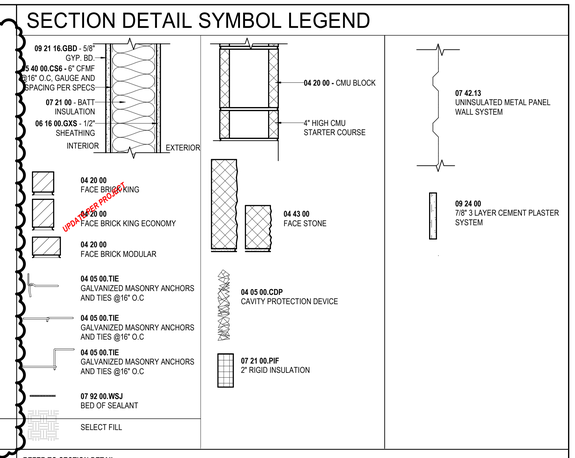


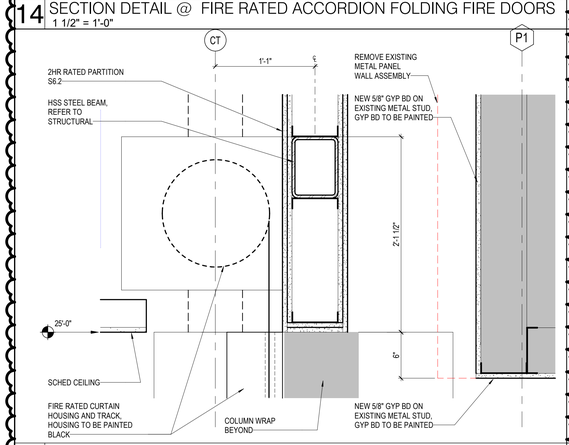
12 WALL SECTION @ GYM ENTRANCE CANOPY DETAIL - MIDPOINT
1 1/2" = 1'-0"



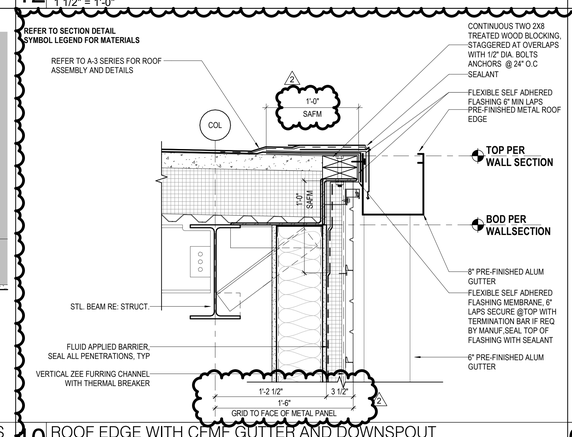
11 WALL SECTION @ ROOF EDGE GYM ENTRANCE CANOPY DETAIL
1 1/2" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

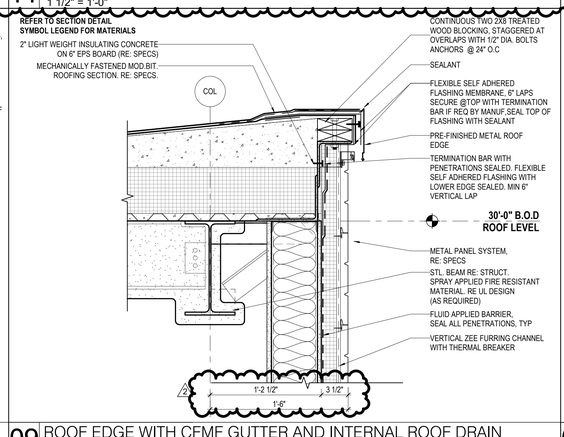




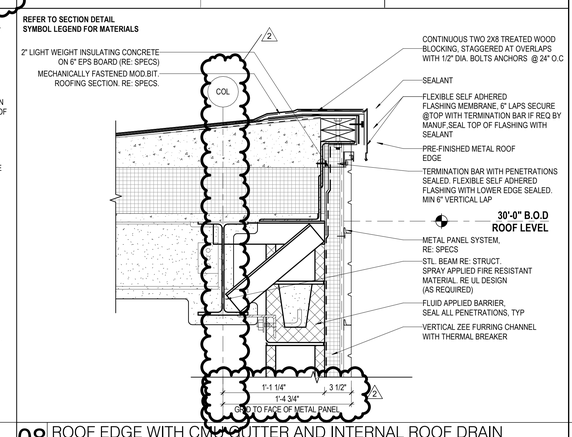
14 SECTION DETAIL @ FIRE RATED ACCORDION FOLDING FIRE DOORS
1 1/2" = 1'-0"



10 ROOF EDGE WITH CFMF GUTTER AND DOWNSPOUT
1 1/2" = 1'-0"

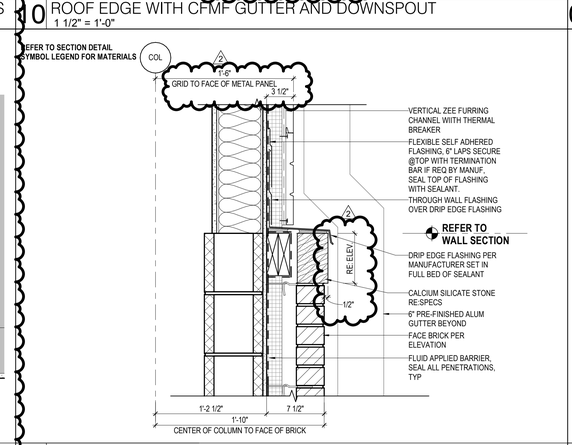


09 ROOF EDGE WITH CFMF GUTTER AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"

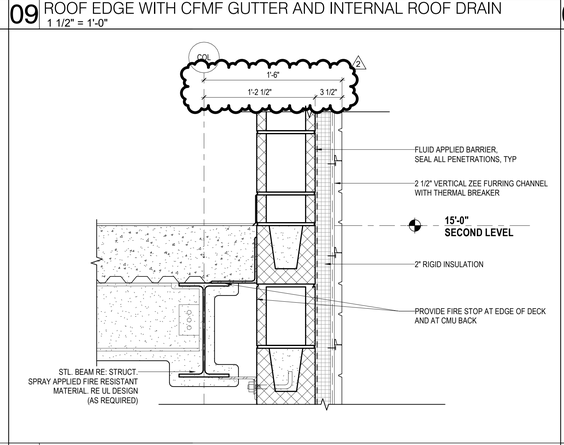


08 ROOF EDGE WITH CMU GUTTER AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"

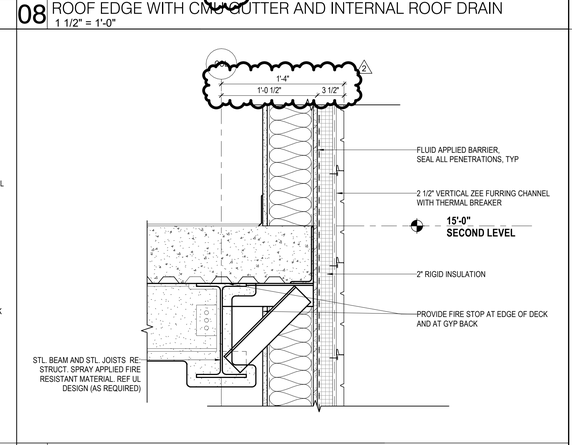
15 SECTION DETAIL @ FIRE RATED CURTAINS
1 1/2" = 1'-0"



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"

Plot Stamp:
12/19/2025 12:04:26 PM

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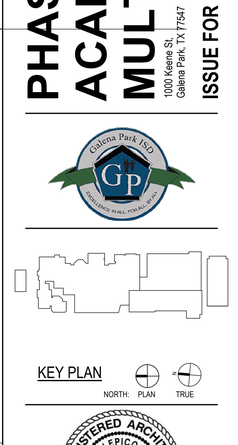
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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
2	ADD 03	2025/12/19

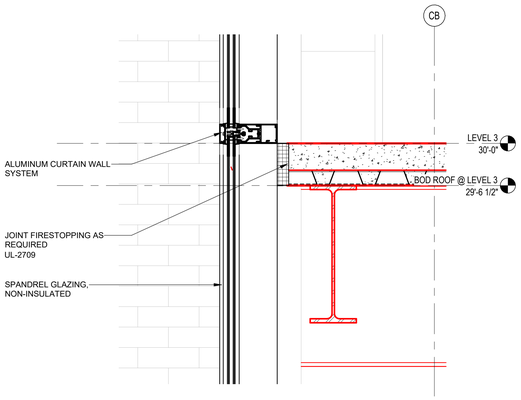
CHECKED BY: Checker
DRAWN BY: Author

METAL PANEL WALL SECTION DETAILS

A-713

CURTAINWALL DETAILS AT MASONRY VENEER
A-723
FOR BLUEBEAM LABELING/OCR:

0"
1"



12 CURTAIN WALL AT FLOOR EDGE - FIRESAFE DETAIL
1 1/2" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

09 21 16.GB0 - 5/8" GYP. BD.
05 40 00.CS6 - 6" CFMF @ 16" O.C. GAUGE AND SPACING PER SPECS
07 21 00 - BATT INSULATION
06 16 00.GA5 - 1/2" SHEATHING
INTERIOR
EXTERIOR

04 20 00
FACE MODULAR KING

04 05 00.TIE
GALVANIZED MASONRY ANCHORS AND TIES @16" O.C

04 05 00.TIE
GALVANIZED MASONRY ANCHORS AND TIES @16" O.C

04 05 00.TIE
GALVANIZED MASONRY ANCHORS AND TIES @16" O.C

07 92 00.WSJ
BED OF SEALANT

SELECT FILL

04 20 00 -
CMU BLOCK

4" HIGH CMU STARTER COURSE

04 43 00
FACE STONE

04 05 00.CDP
CAVITY PROTECTION DEVICE

07 42.13
UNINSULATED METAL PANEL WALL SYSTEM

09 24 00
7/8" 3 LAYER CEMENT PLASTER SYSTEM

07 21 00.PIF
2" RIGID INSULATION

11 CW BASE @ SLAB & FOUNDATION
3" = 1'-0"

10 CW SILL @ SLAB & MODULAR BRICK CFMF STL POST
3" = 1'-0"

09 CW SILL @ SLAB & MODULAR BRICK CFMF
3" = 1'-0"

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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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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

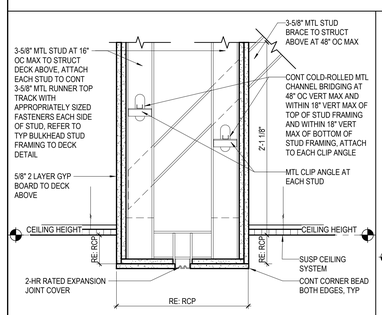
CURTAINWALL DETAILS AT MASONRY VENEER

A-723

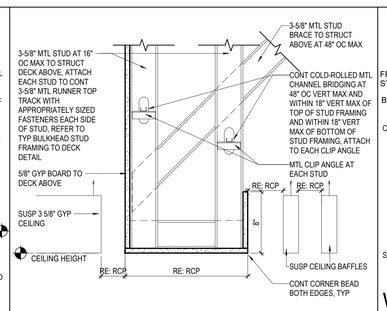
Plot Stamp:
12/18/2025 6:14:17 PM

CEILING DETAILS
A-731
FOR BLUEBEAM LABELING/DOOR:

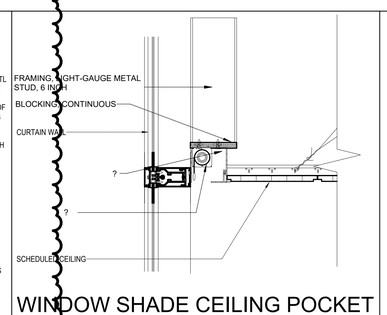
0"
1"



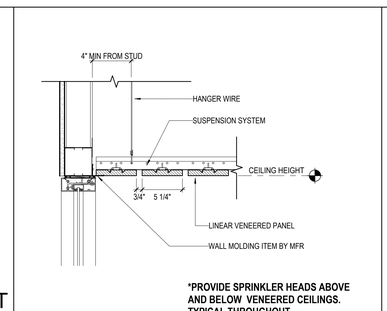
17 CEILING DETAIL 16
1 1/2" = 1'-0"



16 CEILING DETAIL 15
1 1/2" = 1'-0"

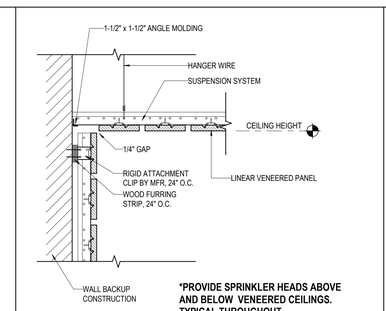


15 CEILING DETAIL 14
1 1/2" = 1'-0"



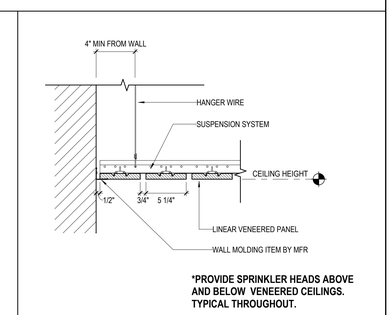
***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

14 CEILING DETAIL 13
1 1/2" = 1'-0"



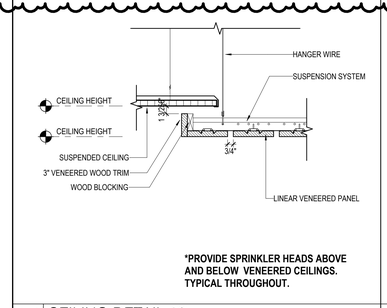
***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

13 CEILING DETAIL 12
1 1/2" = 1'-0"



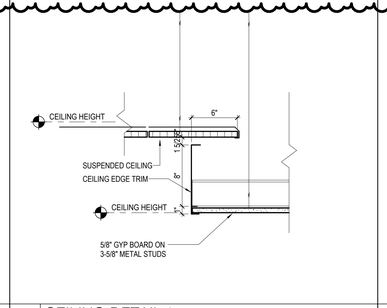
***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

12 CEILING DETAIL 11
1 1/2" = 1'-0"

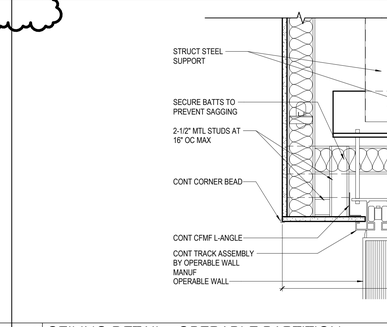


***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

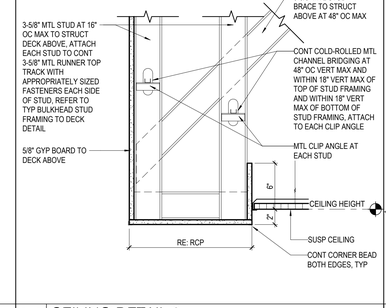
11 CEILING DETAIL 10
1 1/2" = 1'-0"



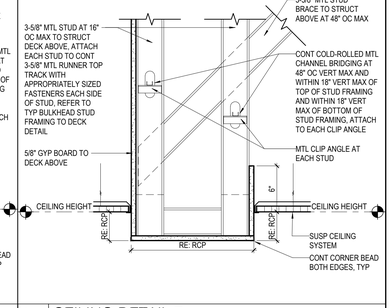
10 CEILING DETAIL 9
1 1/2" = 1'-0"



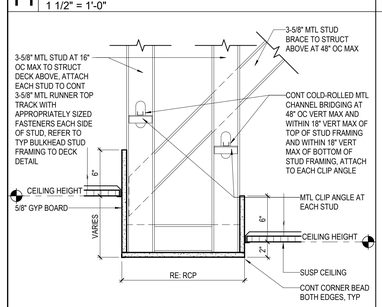
09 CEILING DETAIL - OPERABLE PARTITION
1 1/2" = 1'-0"



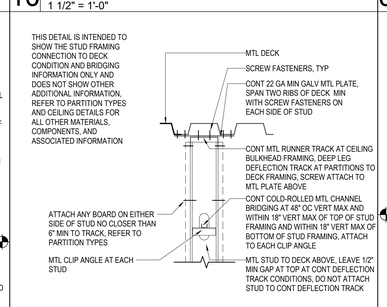
08 CEILING DETAIL 8
1 1/2" = 1'-0"



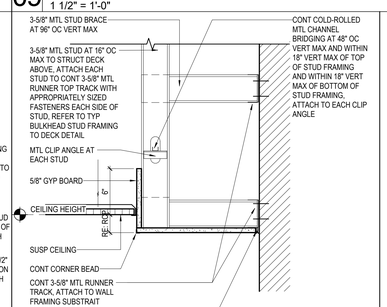
07 CEILING DETAIL 7
1 1/2" = 1'-0"



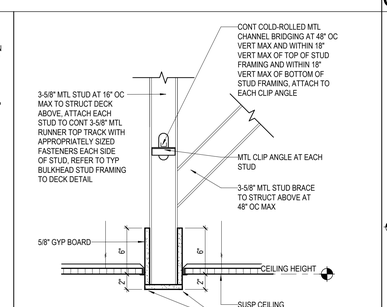
06 CEILING DETAIL 6
1 1/2" = 1'-0"



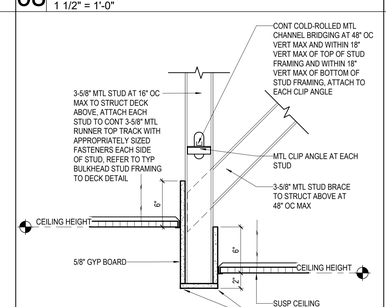
05 TYP BULKHEAD STUD FRAMING TO DECK
1 1/2" = 1'-0"



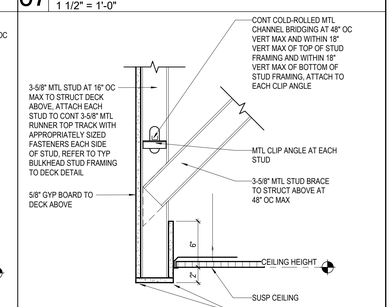
04 CEILING DETAIL 4
1 1/2" = 1'-0"



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:
12/18/2025 6:14:19 PM

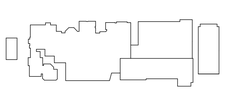
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

CEILING DETAILS

A-731

DOOR SCHEDULE LEVEL 1
A-810
FOR BLUEBEAM LABELING/OCR:

0"

DOOR SCHEDULE REMARKS

1"

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 NUMBER	DATA TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	PANEL TYPE	PANEL MATL	PANEL FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	GENERAL FIRE RATING	GENERAL HARDWARE SET	GENERAL 2 REMARKS
LEVEL 1												
ATHLETICS												
1500A	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 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, Horizontal Blinds
1500F	GYM LOBBY	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
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			2
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, Horizontal Blinds
1507A	STAIR 02	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
1510	OFFICIAL FLEX OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1511	STAIR 01	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1511.1	VISITOR / FLEX ROOM	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
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			Horizontal Blinds
1515B	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
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			Horizontal Blinds
1519	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1520	TRAINERS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1520.1	CART STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1520.1A		12'-0"	9'-0"	OHCS	ALUM	DB ANO	00CF	ALUM	DB ANO			
1521	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1522	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1523	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1524	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
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			Horizontal Blinds
1525	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1526	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
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			Horizontal Blinds
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			Horizontal Blinds
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	1-HR		
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			Horizontal Blinds
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			Horizontal Blinds
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			Horizontal Blinds
1543	BOYS LAUNDRY	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1544	PUMP ROOM	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1545	CORRIDOR	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			2, 10
1550.1	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	1-HR		
1550A	STAIR 03	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	1-HR		
C1508	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 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'-1 15/256"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1508C	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
C1508D	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 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	-	-			2, 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			Horizontal Blinds
1103	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1104	BEHAVIOR ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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-HR		2
1107	MOCK LIVING	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
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			Horizontal Blinds
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			Horizontal Blinds
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	2-HR		
1116	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			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			Horizontal Blinds
1121	COORDINATOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1122	SPEECH	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1123	ARD CONFERENCE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
1125	CLERK	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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	2-HR		
1129	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
1131	MAIN STREET	6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1131.1	MAIN STREET	6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1131.3	MAIN STREET	6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1131.3A	TEMP BAND	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1132	TESTING OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1132.1	TESTING OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1133	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1133A	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1134A	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
1137	TECHNICAL STORAGE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1138	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	CLR ANO	CLR ANO	2-HR		2
1139	AP OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1140	ENGLISH 13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1141	ENGLISH #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1142	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			10, Horizontal Blinds
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			Horizontal Blinds
1145	ENGLISH #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1146	ENGLISH #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1147	ENGLISH #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
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			Horizontal Blinds
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			Horizontal Blinds
1156	ENGLISH #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1157	ENGLISH #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1158	ENGLISH #8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
1160	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		
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	1-HR 2		
C1100	MAIN STREET	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	2-HR		MAIN STREET
C1100.1	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
C1100.2		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 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			Horizontal Blinds
ACADEMICS: 87												
C1000N		8'-0"	7'-0"	FG-1	ALUM	DB ANO	NONE	-	-			1, 2, 10, 11
: 1												
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"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
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"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds

HORIZONTAL SLIDING FIRE DOOR & FIRE CURTAIN SCHEDULE

DOOR NUMBER	DATA TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	PANEL TYPE	PANEL MATL	PANEL FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	GENERAL FIRE RATING	GENERAL HARDWARE SET	GENERAL 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"							2-HR		
FSD2	STAIR 07	11'-0"	10'-0"							2-HR		
FSD3	MAIN STREET	15'-4"	10'-0"									
FSD4	MAIN STREET	8'-4"	10'-0"									
FSD5	STAIR 06	11'-0"	10'-0"							2-HR		
FSD6	STAIR 05	12'-9"	10'-0"							2-HR		
ACADEMICS: 20												
FS24		3'-0"	6'-10"		ALUM	DB ANO						
FS25		3'-0"	6'-10"		ALUM	DB ANO						
FS26		12'-0"	9'-0"		ALUM	DB ANO						
FS27		3'-0"	6'-10"		ALUM	DB ANO						
FS28		3'-0"	6'-10"		ALUM	DB ANO						
FS30	CART STORAGE	12'-0"	9'-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"							2-HR		
FSD8	STAIR 07	13'-1"	10'-0"							2-HR		
FSD9		15'-4"	10'-0"									
FSD10		12'-6"	10'-0"									
FSD11	STAIR 06	11'-0"	10'-0"									
FSD12	STAIR 05	12'-9"	10'-0"							2-HR		
ACADEMICS: 7												
FSD13	CORRIDOR	9'-0"	10'-0"							2-HR		
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"							2-HR		
FSD15	STAIR 07	11'-0"	10'-0"							2-HR		
FSD16	STAIR 06	10'-2"	10'-0"							2-HR		
FSD17	STAIRS 05	12'-9"	10'-0"							2-HR		
ACADEMICS: 4												
LEVEL 3: 4												
Grand total: 39												

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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
1	ADD 01	2025/12/11
2	ADD 03

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	2 REMARKS
2510.1	P.E. STORAGE	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2510.2	AUXILIARY GYM A	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	2-HR		2
2510A	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
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	1-HR		
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"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
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"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
C2501	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
ATHLETICS: 19												
ACADEMICS												
2102	SPECIALIST	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2103	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO	2-HR		Horizontal Blinds
2104	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO	2-HR		2, Horizontal Blinds
2105	MATH CLASS #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2105.1	STORAGE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2106	MATH CLASS #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2107	MATH CLASS #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2108	MATH CLASS #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2109	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2110	STAFF RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2111	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2112	MATH CLASS #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2114	MATH CLASS #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
2118	CORRIDOR	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2119	MATH CLASS #8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2121	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2121A	COMPUTER LAB	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2122	MATH CLASS #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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-HR		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			Horizontal Blinds
2129	MATH CLASS #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2130	MATH CLASS #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2131	MATH CLASS #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2132	MATH CLASS #13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2133	SOCIAL STUDIES #13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2134	SOCIAL STUDIES #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2135	AP SUITE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2135A	AP OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2136	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2137	SRO	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
2138	SRO	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2139	SOCIAL STUDIES #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2140	SOCIAL STUDIES #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2142	SOCIAL STUDIES #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2143	SOCIAL STUDIES #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2144	SOCIAL STUDIES #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
2148	SOCIAL STUDIES #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
2153	SOCIAL STUDIES #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2154	SOCIAL STUDIES 8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2155	SOCIAL STUDIES #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
2158		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		
2159		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		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			Horizontal Blinds
3102A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3102B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3104	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3104A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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	2-HR		2
3107	ASTRONOMY CLASS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3107A	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3108	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3108A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3108B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3112A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3116	SPANISH 1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3119.1	SHARED PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3119.1A	SHARED PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3119A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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-HR		2, Horizontal Blinds
3124	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3125	SPANISH 3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3126	SPANISH 4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3127	SPANISH 5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds

DOOR SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	2 REMARKS
3128	SPANISH 6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3129	SPANISH 7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3132A		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3132B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3135		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3135A		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3135B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3137	FRENCH	3'-0"	6'-10"	NV-1	WS	PL-1	001	WS	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3140A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3140B		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3141		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3141A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3141B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3145A	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3146		3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO	2-HR		2
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			Horizontal Blinds
3147B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3149A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
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			Horizontal Blinds
3700A	COLLAB. FLEX ROOM	6'-0"	6'-10 1/2"	FG-1	ALUM	CLR ANO	NONE	-	-			
3700B	COLLAB. FLEX ROOM	6'-0"	6'-10 1/2"	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												

1 1

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

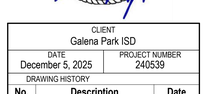
1000 Keene St.
Galena Park, TX 77547

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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker

DRAWN BY: Author

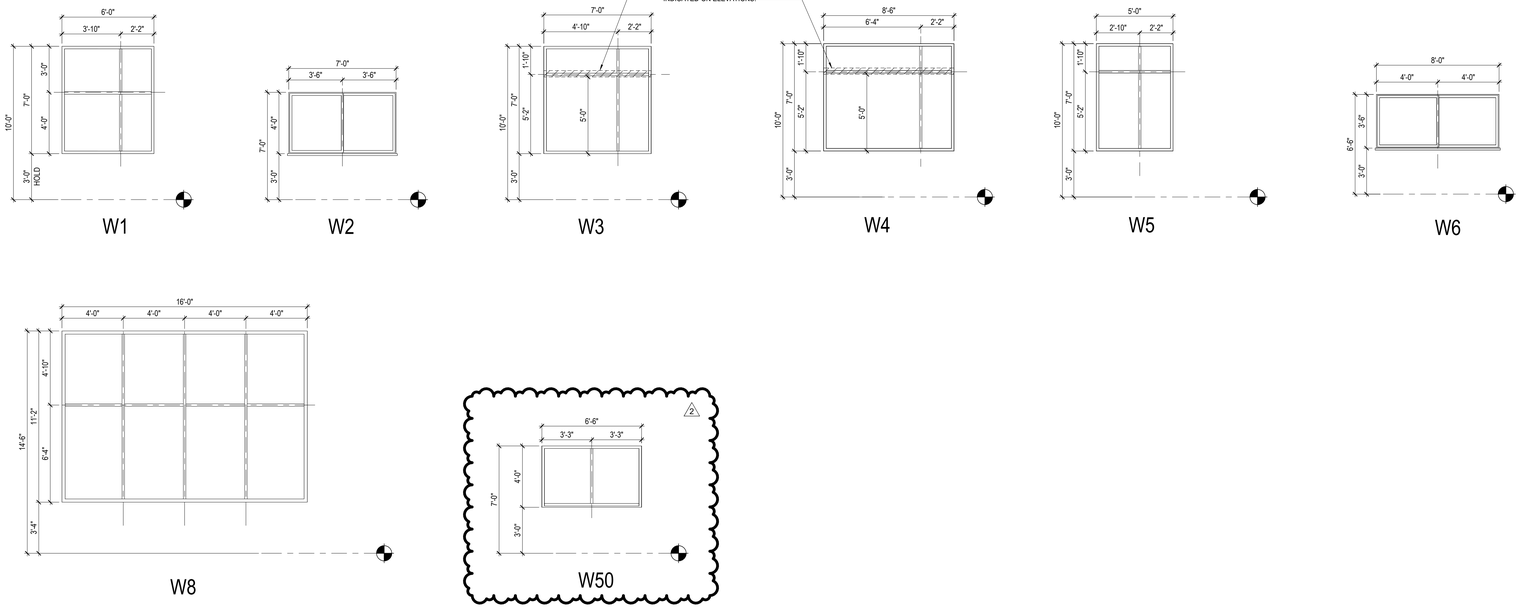
DOOR SCHEDULE LEVEL 2 AND 3
2

A-811

Plot Stamp:
12/18/2025 6:14:28 PM

WINDOW AND STOREFRONT ELEVATIONS
A-821
FOR BLUEBEAM LABELING/DOOR:

0"
1"



FOR GLAZING TYPE, REF. ELEVATIONS

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

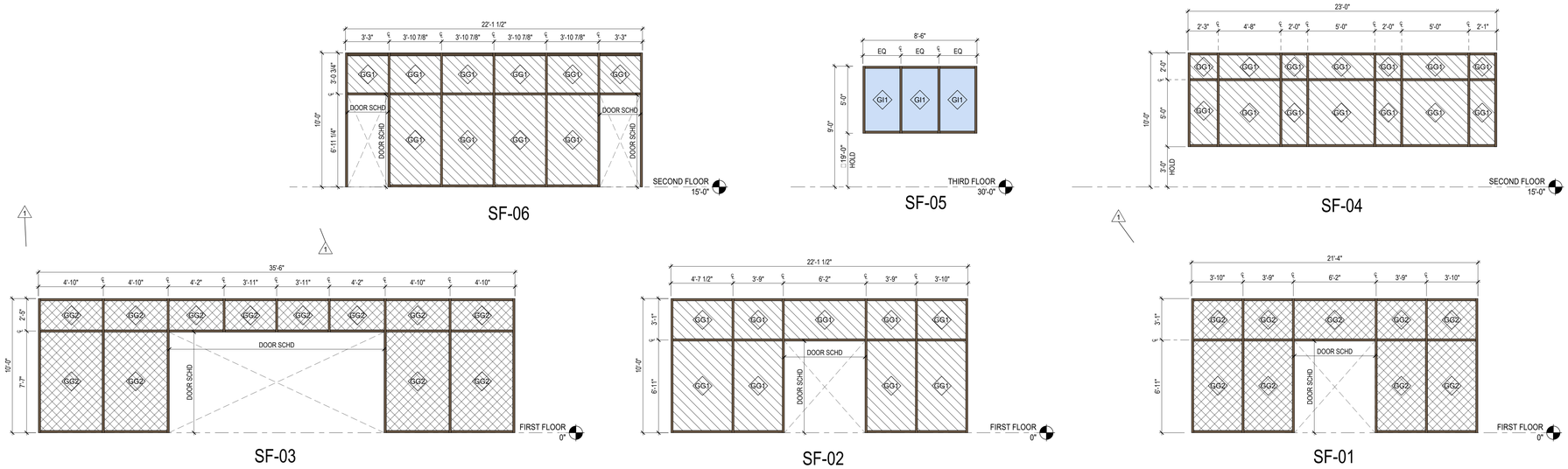
GG2

1" CLEAR INSULATED VISION GLASS

STOREFRONT FRAME LEGEND

STOREFRONT FRAMES

SILL IN EXTERIOR KING BRICK CFMF WALL: -/ ---
JAMB IN EXTERIOR KING BRICK CFMF WALL: 02 / A-726
HEAD IN EXTERIOR KING BRICK CFMF WALL: 10 / A-726



01 STOREFRONT FRAME ELEVATIONS
1/4" = 1'-0"

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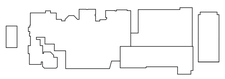
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN / TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

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

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11

CHECKED BY: Checker
DRAWN BY: Author

WINDOW AND STOREFRONT ELEVATIONS

A-821

LEVEL 2 - AREA F FINISH FLOOR PLAN
A-902F
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 2 - AREA F FLOOR FINISH 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

KEY PLAN
NORTH: PLAN / TRUE



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

DRAWING HISTORY

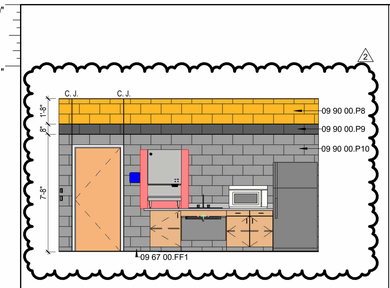
No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

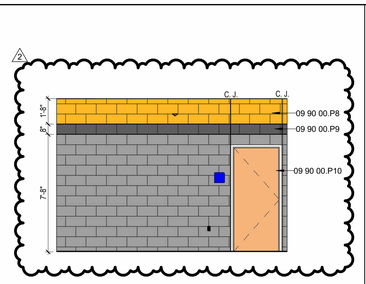
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LEVEL 2 - AREA F FINISH FLOOR PLAN

A-902F

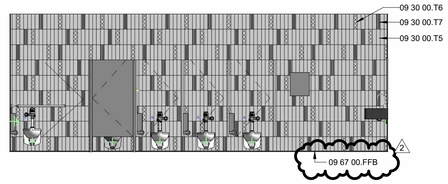
INTERIOR ELEVATIONS
A-931
FOR BLUEBEAM LABELING/DOOR:



05 1505 - CONCESSION TYP PAINT TREATMENT
1/4" = 1'-0"



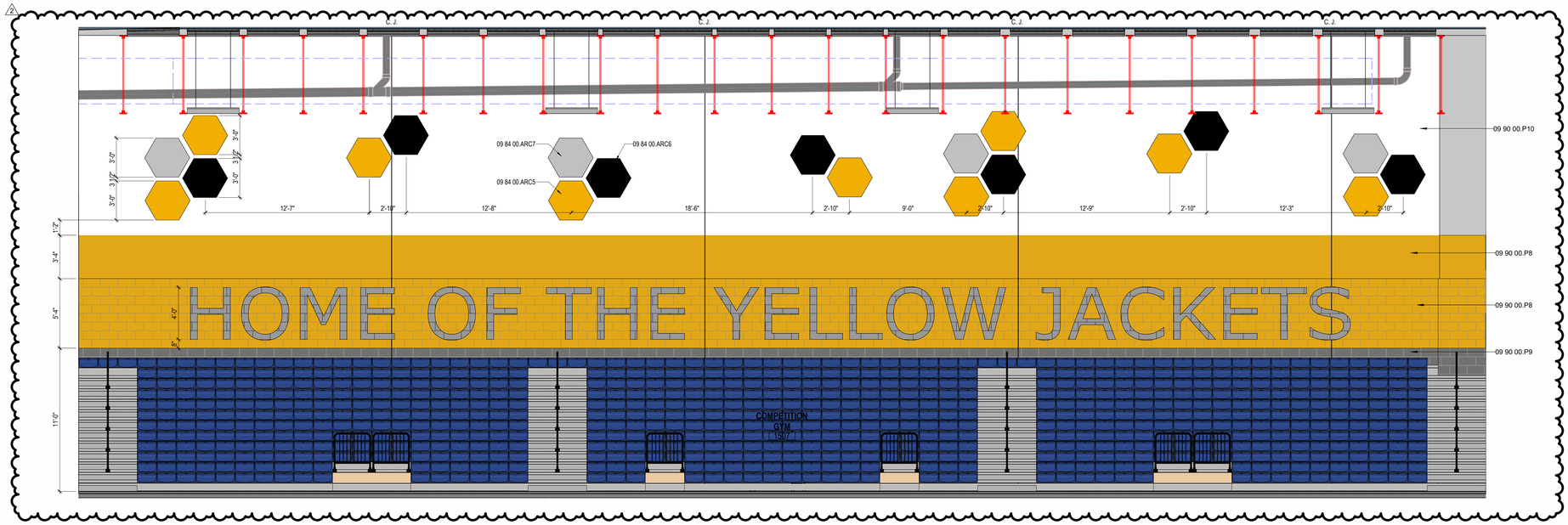
04 1504 - TYPICAL TICKET BOOTH PAINT
1/4" = 1'-0"



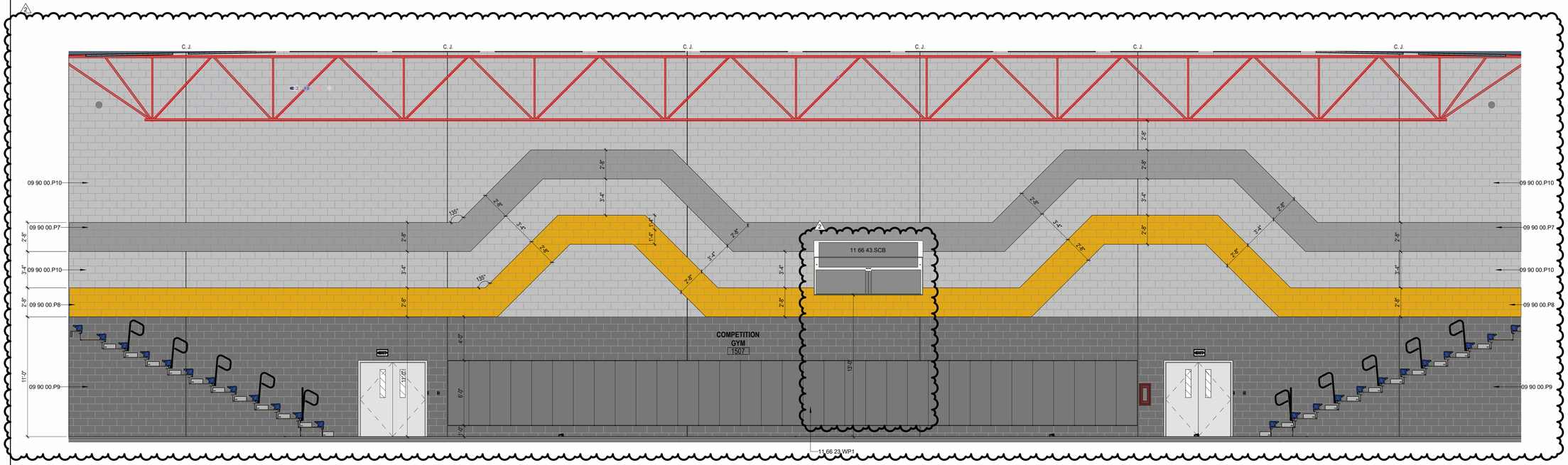
03 1506 - MEN RR TYP. WALL TILE
1/4" = 1'-0"

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 67 00.FFB	FLUID-APPLIED FLOORING BASE, RETURN __ " UP WALL
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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12/18/2025 6:15:37 PM

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

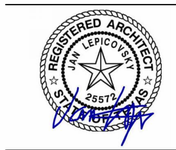
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

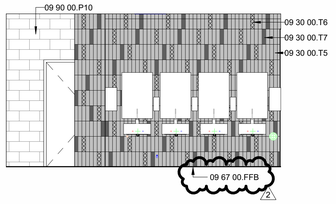
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INTERIOR ELEVATIONS

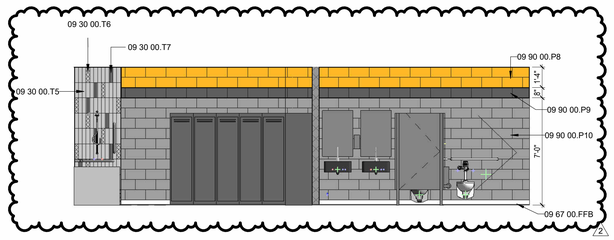
A-931

INTERIOR ELEVATIONS
A-932
FOR BLUEBEAM LABELING/DOOR:

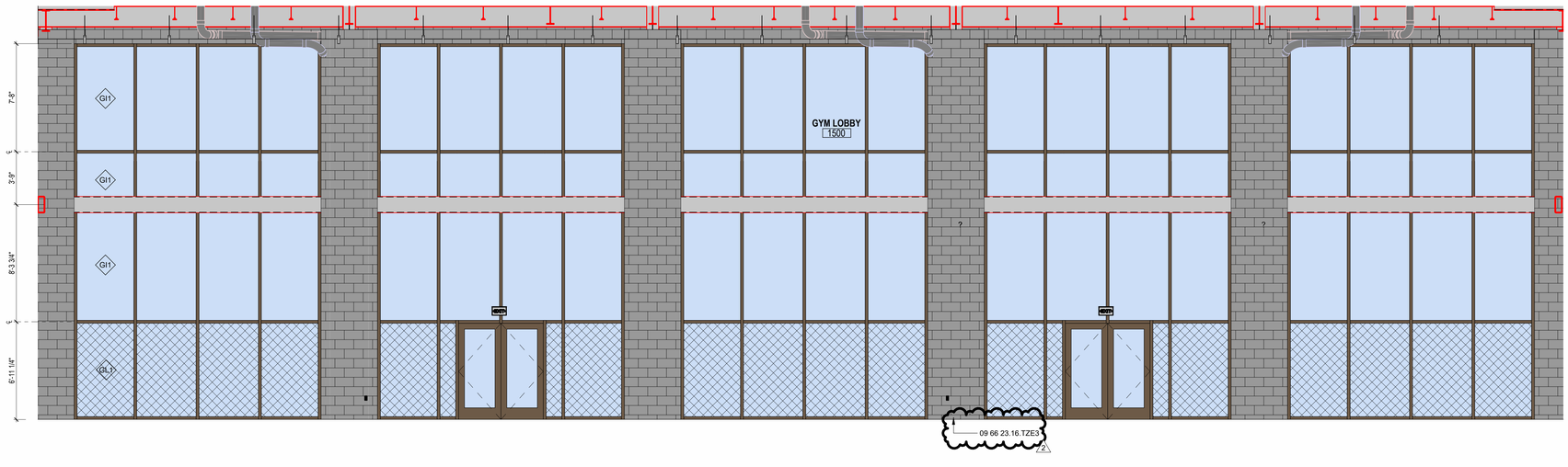
0"
1"



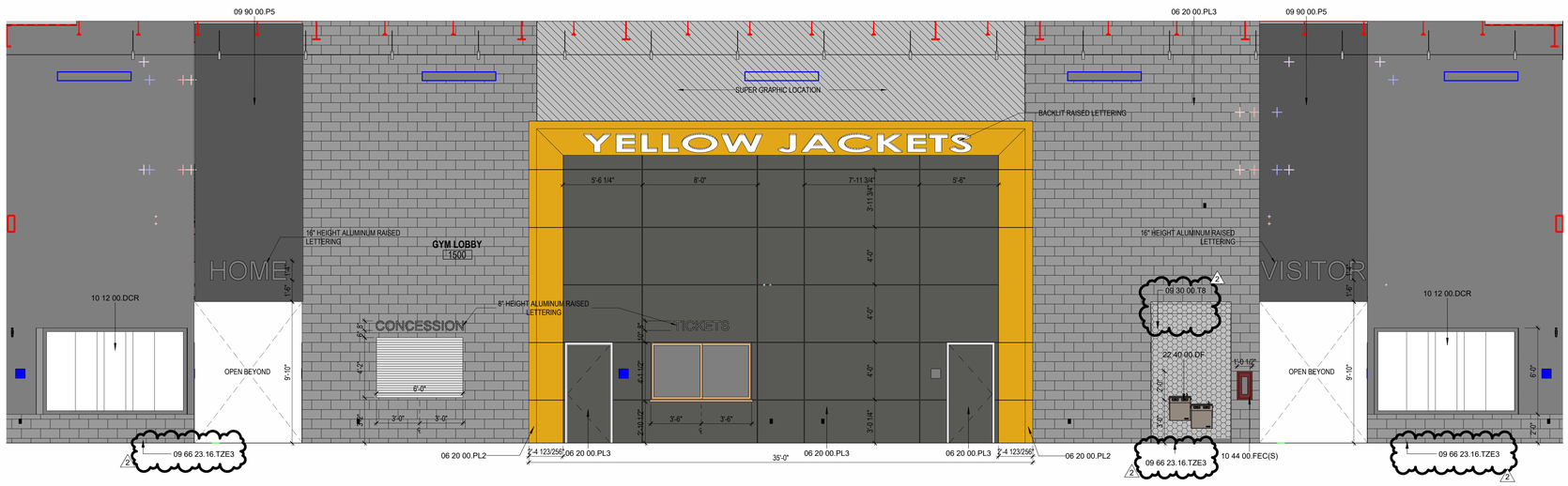
04 1501 - WOMEN'S TYPICAL TILE PATTERN
1/4" = 1'-0"



03 TYPICAL COACH'S RR WALL
1/4" = 1'-0"



02 1500 - ATHLETICS LOBBY - N
1/4" = 1'-0"



01 1500 - ATHLETIC LOBBY - S
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 30 00.T8	TILE TYPE 8 - [DRINKING FOUNTAIN]
09 66 23.16.TZE3	EPOXY-RESIN TERRAZZO, TYPE 3
09 67 00.FFB	FLUID-APPLIED FLOORING BASE, RETURN __ " UP WALL
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	

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

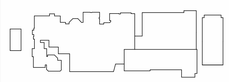
PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

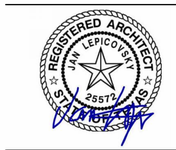
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE





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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

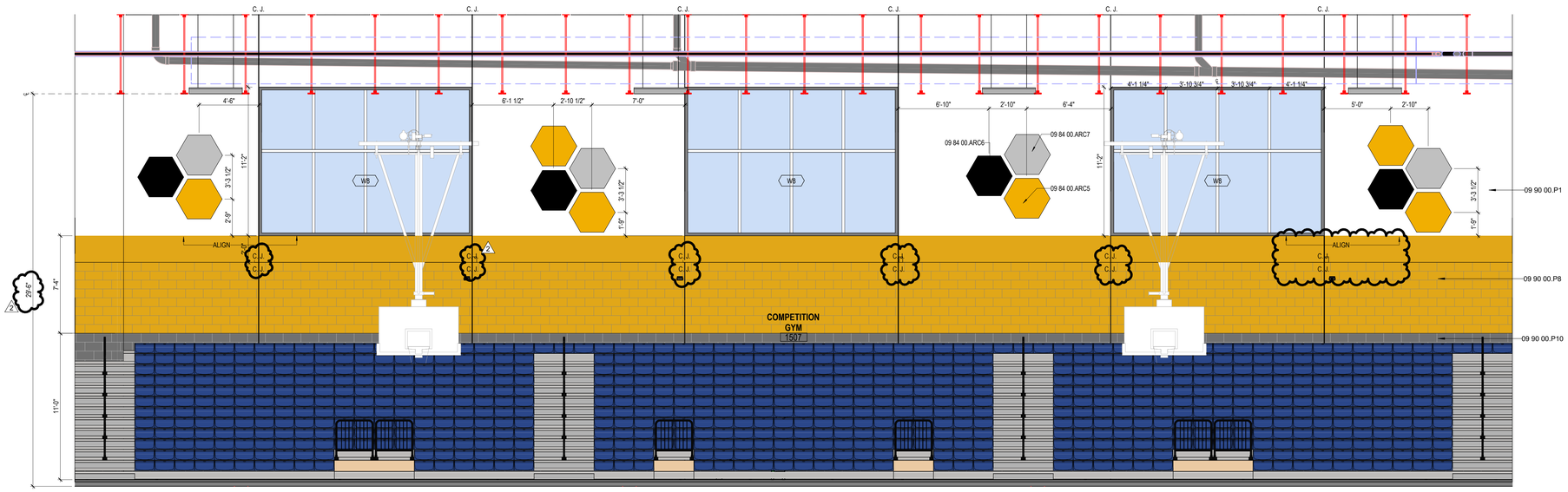
INTERIOR ELEVATIONS

A-932

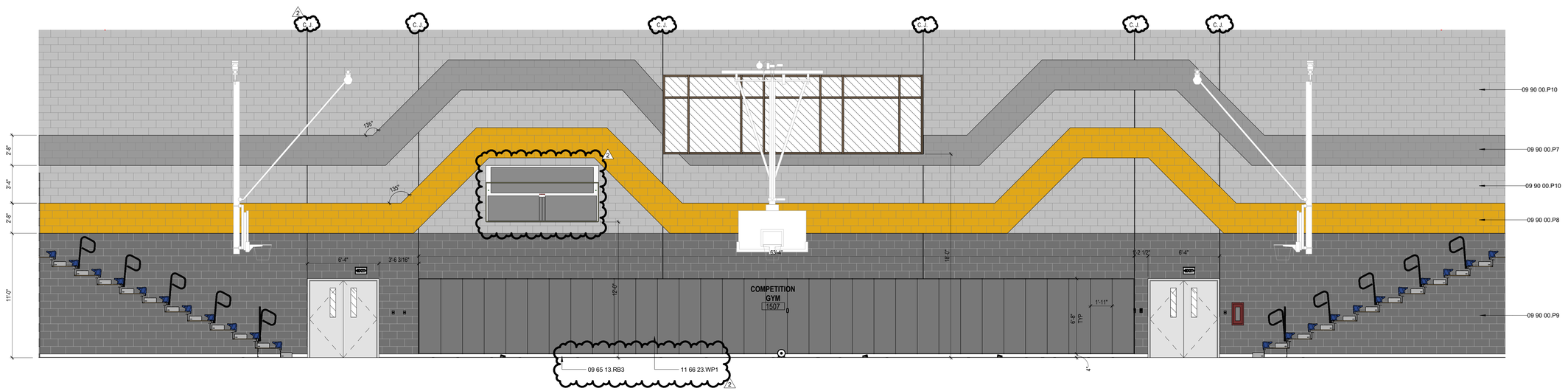
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12/18/2025 6:15:47 PM

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"

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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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
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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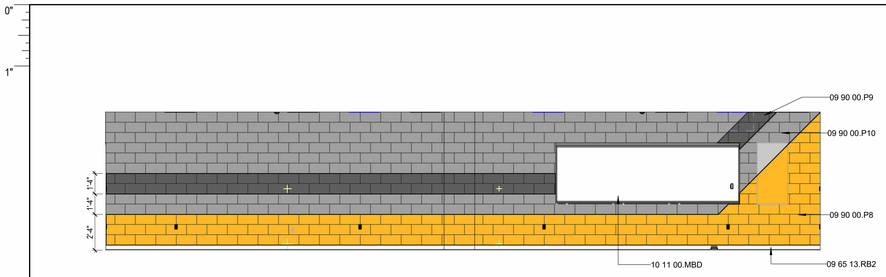
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

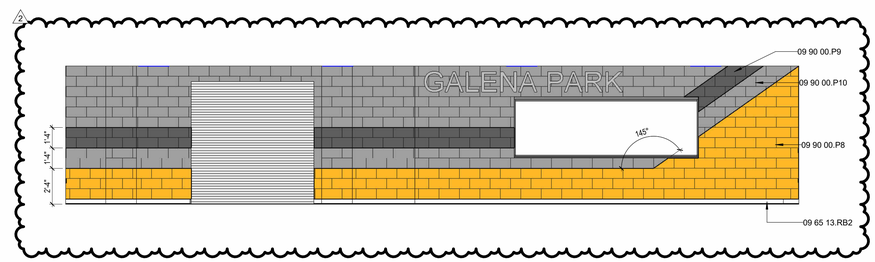
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Plot Stamp:
12/18/2025 6:16:36 PM

INTERIOR ELEVATIONS
A-934
FOR BLUEBEAM LABELING/OCR:

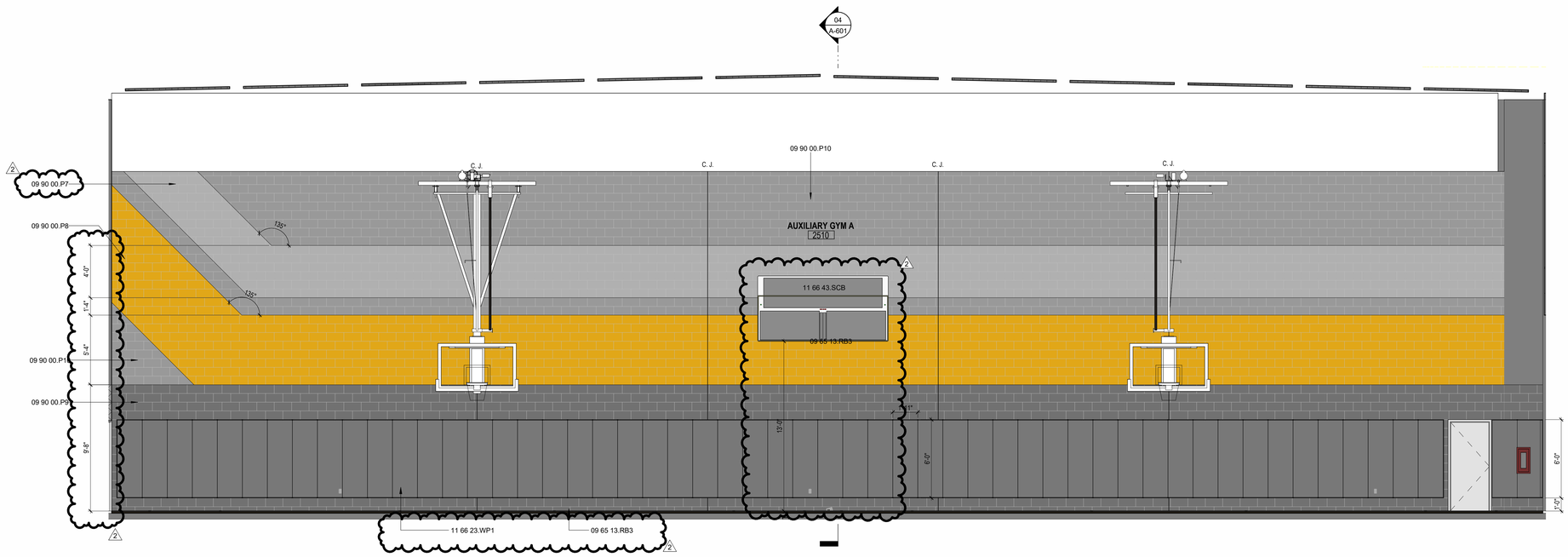


05 1515 - WEIGHT ROOM EAST ELEVATION
1/4" = 1'-0"

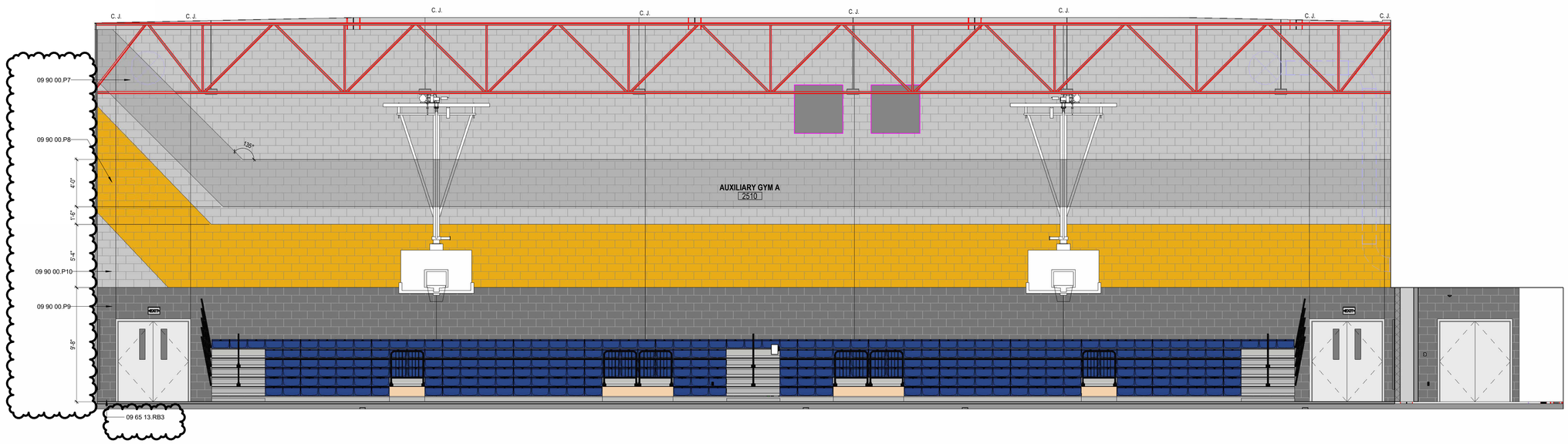


04 1515 - WEIGHT ROOM WEST ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND	
NUMBER	**DESCRIPTION**
09 65 13.RB2	RESILIENT BASE, TYPE 2 - BLACK STANDARD RUBBER BASE
09 65 13.RB3	RESILIENT BASE, TYPE 3 - VENTED COVE BASE
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]
10 11 00.MBD	12' MARKERBOARD
11 66 23.WP1	WALL PADDING, TYPE 1 [COLOR]
11 66 43.SCB	INTERIOR SCOREBOARD



02 GYM B - WEST INTERIOR ELEVATION
1/4" = 1'-0"



01 GYM B - EAST INTERIOR ELEVATION
1/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL
47

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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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

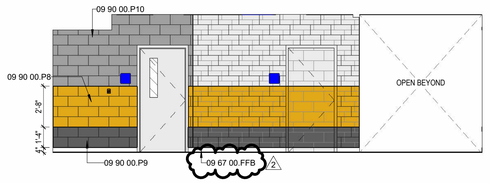
A-934

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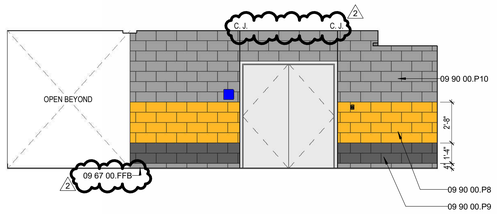
INTERIOR ELEVATIONS
A-935
FOR BLUEBEAM LABELING/DOOR:

KEYNOTE LEGEND

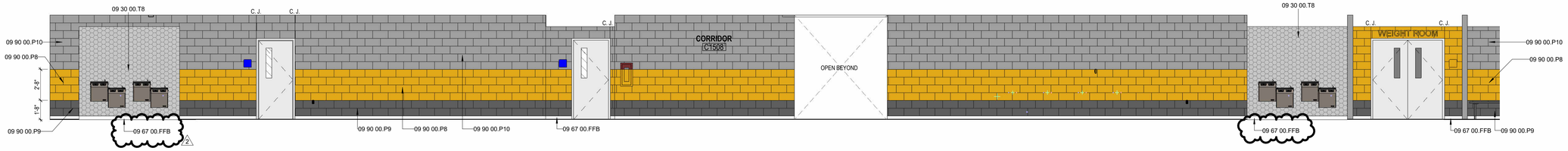
NUMBER	DESCRIPTION
09 30 00.T8	TILE TYPE 8 - [DRINKING FOUNTAIN]
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 67 00.FFB	FLUID-APPLIED FLOORING BASE, RETURN __" UP WALL
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
10 22 39.FPH	HORIZONTAL-OPENING FOLDING PANEL PARTITION



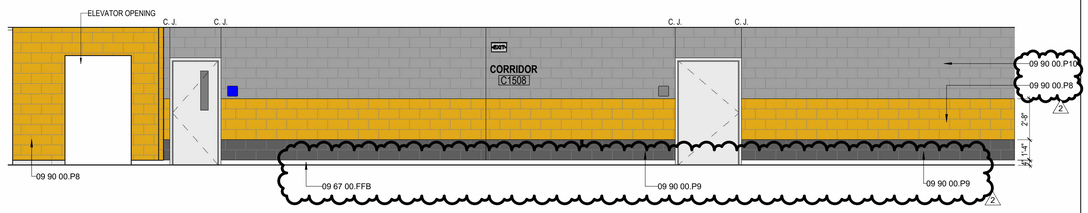
13 C1508 - INTERIOR ELEVATION 1
1/4" = 1'-0"



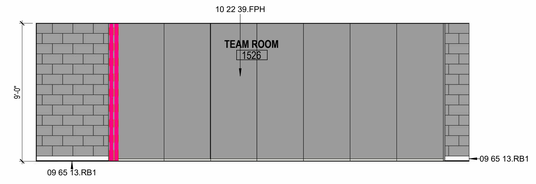
14 C1508 - INTERIOR ELEVATION 2
1/4" = 1'-0"



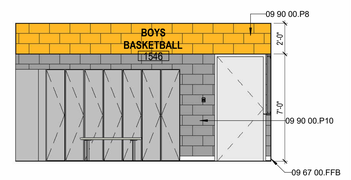
11 C1508 CORRIDOR - INTERIOR ELEVATION
1/4" = 1'-0"



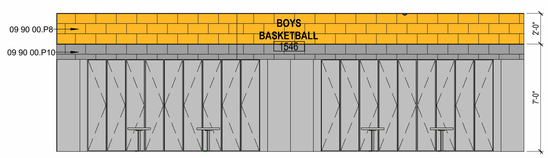
12 C1508 CORRIDOR - ELEVATOR WALL INTERIOR ELEVATION
1/4" = 1'-0"



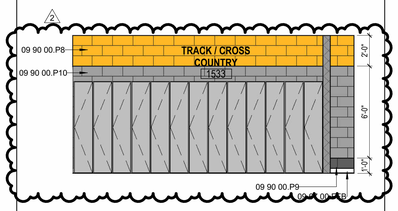
10 TYP. TEAM ROOM
1/4" = 1'-0"



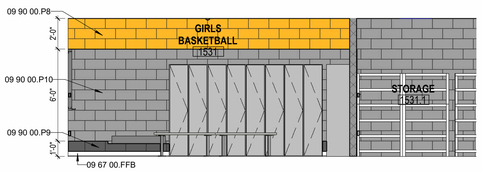
09 TYP. LOCKER ROOM 3 -E
1/4" = 1'-0"



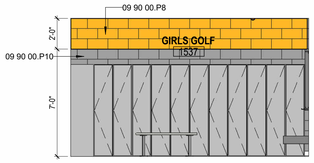
08 TYP. LOCKER ROOM 3 - N
1/4" = 1'-0"



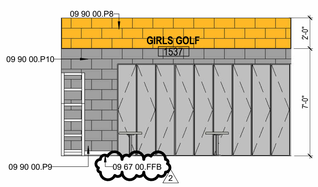
07 TYP. LOCKER ROOM 2 - N
1/4" = 1'-0"



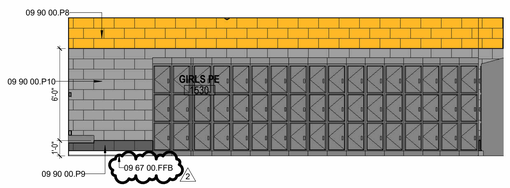
06 TYP. LOCKER ROOM 2 - S
1/4" = 1'-0"



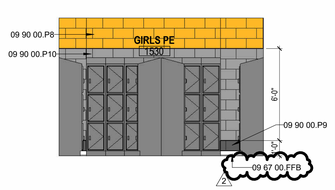
05 TYP. LOCKER ROOM 1 - W
1/4" = 1'-0"



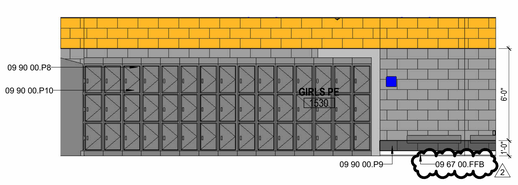
04 TYP. LOCKER ROOM 1 - S
1/4" = 1'-0"



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"

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12/18/2025 6:17:07 PM

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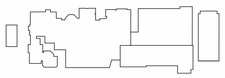
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

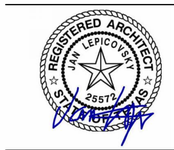
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
FOUNDED WELL FOR ALL WELL

KEY PLAN
NORTH: PLAN





CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

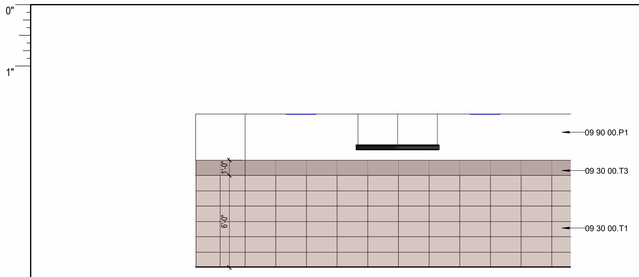
No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
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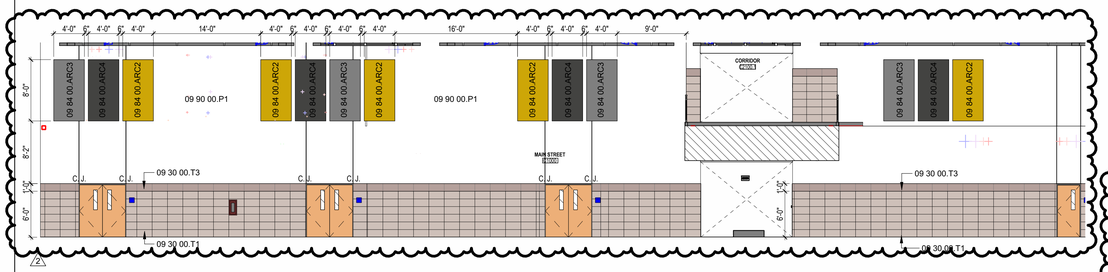
INTERIOR ELEVATIONS

A-935

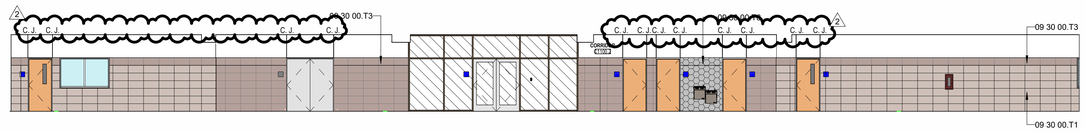
INTERIOR ELEVATIONS
A-941
FOR BLUEBEAM LABELING/DOOR:



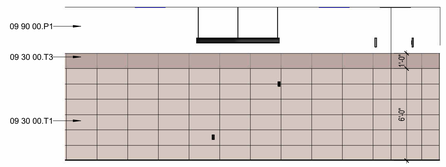
08 1135 - WEST INTERIOR ELEVATION
1/4" = 1'-0"



07 MULTIPURPOSE SOUTH ENTRY 2 OF 2
1/8" = 1'-0"



06 MULTIPURPOSE EAST ENTRY
1/8" = 1'-0"



05 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]

GLAZING MATERIALS LEGEND 2

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

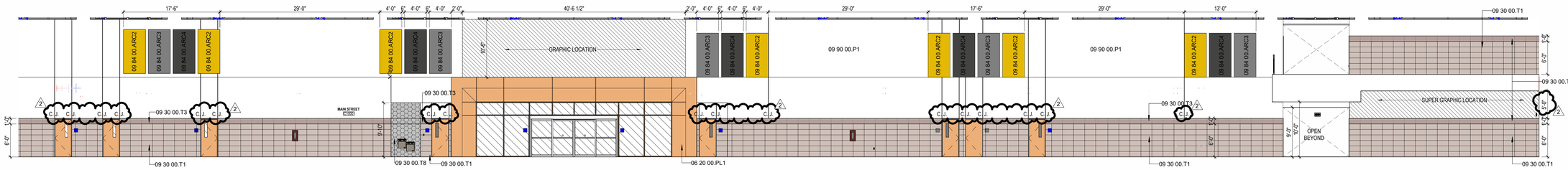
GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

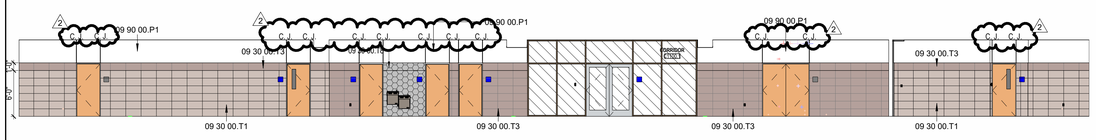
GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 3
COLOR: AS SELECTED BY ARCHITECT

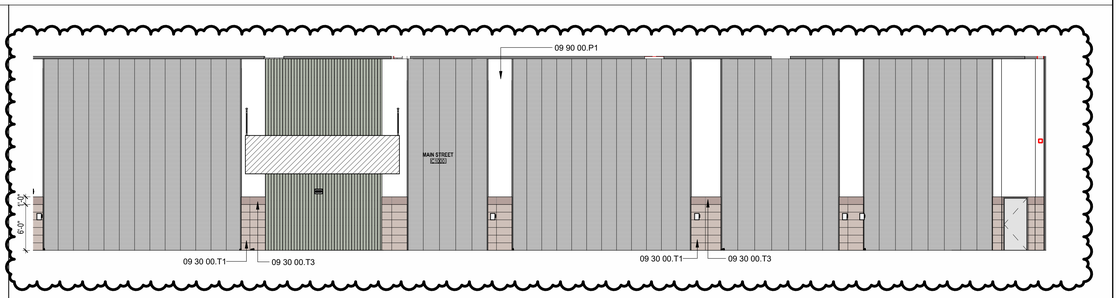
GG2
1" CLEAR INSULATED VISION GLASS



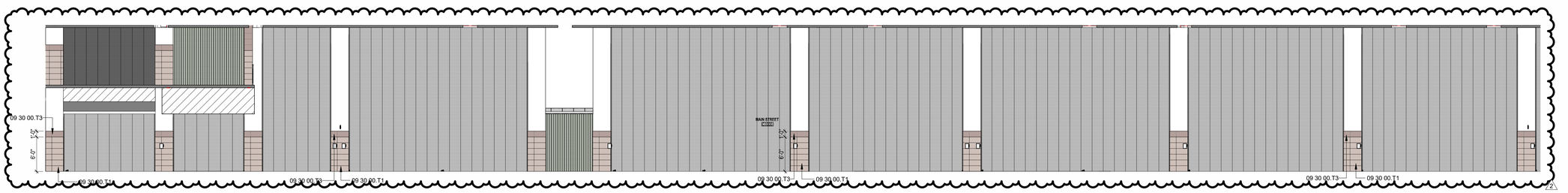
04 MULTIPURPOSE SOUTH ENTRY 1 OF 2
1/8" = 1'-0"



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:
12/18/2025 6:17:26 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

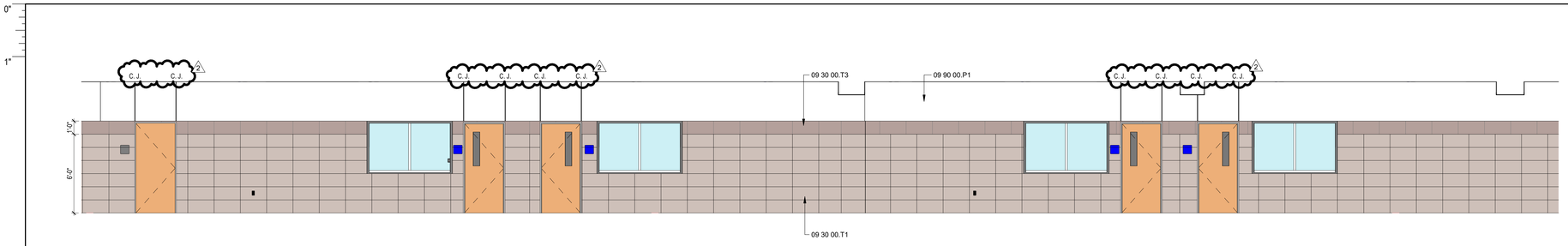
No.	Description	Date
2	ADD 03	2025/12/19

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DRAWN BY: Author

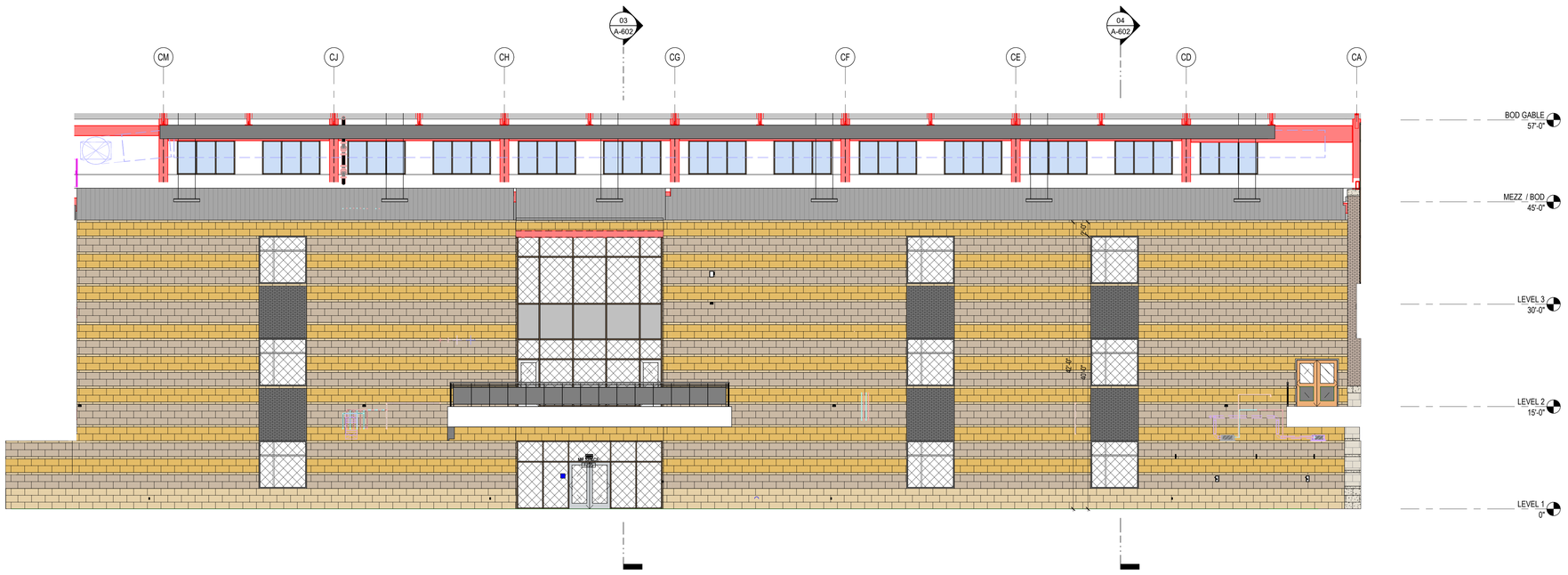
INTERIOR ELEVATIONS

A-941

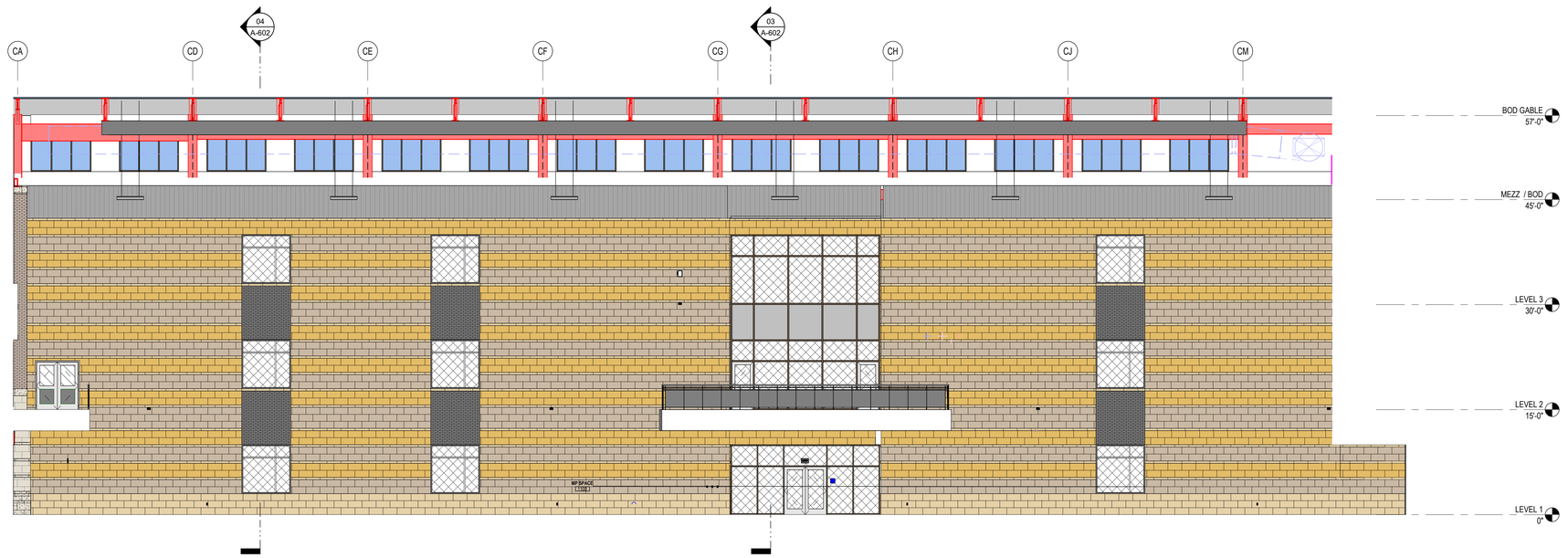
INTERIOR ELEVATIONS
A-943
FOR BLUEBEAM LABELING/DOOR:



03 TYPICAL CLASSROOM CORRIDOR
1/4" = 1'-0"



02 INTERIOR MULTIPURPOSE - NORTH
1/8" = 1'-0"



01 INTERIOR MULTIPURPOSE - SOUTH
1/8" = 1'-0"

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]

GLAZING MATERIALS LEGEND

Gl1
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

INTERIOR MATERIALS LEGEND

04 20 00.CV1
CONCRETE MASONRY UNIT,
BURNISHED BLOCK,
WHITE LIMESTONE 700

04 20 00.CV2
CONCRETE MASONRY UNIT,
BURNISHED BLOCK,
WHITE TERRAZZO 704

04 20 00.CV3
CONCRETE ACOUSTICAL
MASONRY UNIT,
BURNISHED BLOCK,
SOUNDBLOX BY SOUND SEAL

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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

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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

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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

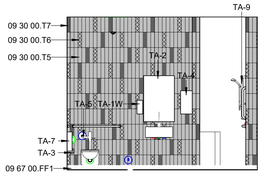
A-943

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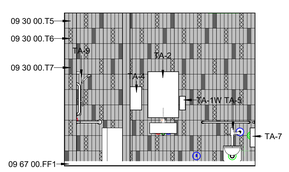
INTERIOR ELEVATIONS - RESTROOMS
A-944

FOR BLUEBEAM LABELING/DOOR:

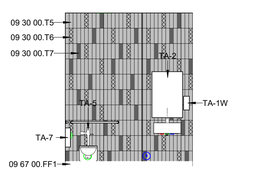
0"
1"



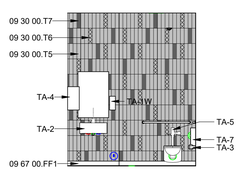
17 1107.1 RESTROOM - EAST
1/4" = 1'-0"



16 1105 RESTROOM - WEST
1/4" = 1'-0"



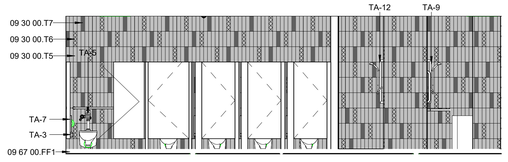
15 1110 STAFF RR - SOUTH
1/4" = 1'-0"



14 1153 RR - NORTH
1/4" = 1'-0"



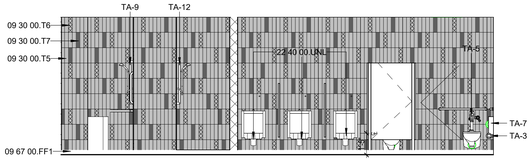
13 1529.2 & 1541.2 COACHES RR
1/4" = 1'-0"



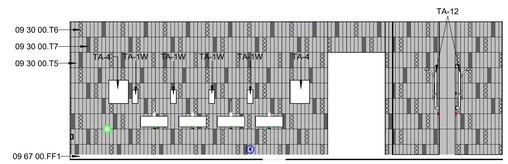
12 1530.1 GIRLS PE RR - EAST
1/4" = 1'-0"



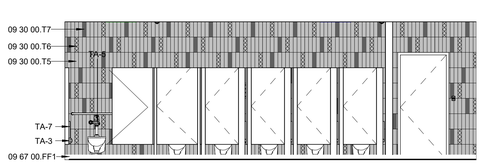
11 1530.1 GIRLS PE RR - WEST
1/4" = 1'-0"



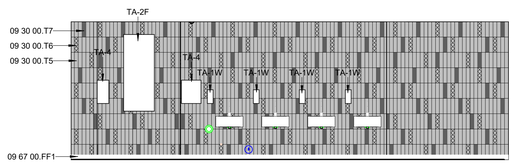
10 1540.1 BOYS PE RR - EAST
1/4" = 1'-0"



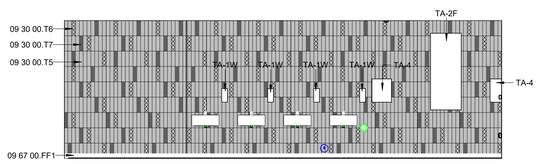
09 1540.1 BOYS PE RR - WEST
1/4" = 1'-0"



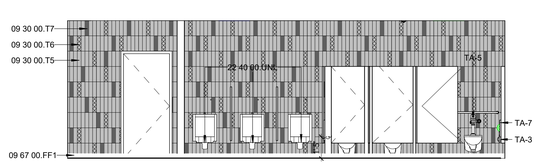
08 1517 GIRLS RR - EAST
1/4" = 1'-0"



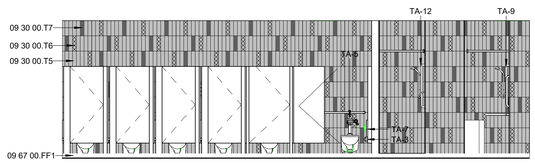
07 1517 GIRLS RR - WEST
1/4" = 1'-0"



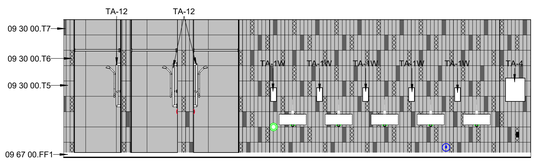
06 1516 BOYS RR - EAST
1/4" = 1'-0"



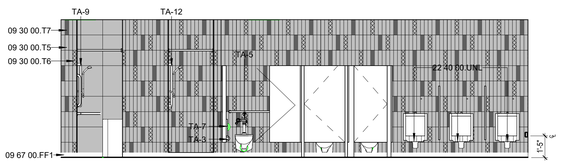
05 1516 BOYS RR - WEST
1/4" = 1'-0"



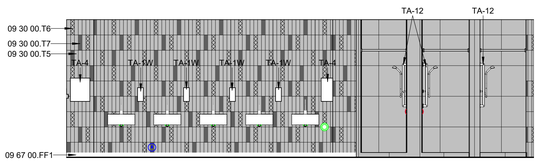
04 1532 GIRLS ATHLETIC RR - EAST
1/4" = 1'-0"



03 1532 GIRLS ATHLETIC RR - WEST
1/4" = 1'-0"



02 1542 BOYS ATHLETIC RR - EAST
1/4" = 1'-0"



01 1542 BOYS ATHLETIC RR - WEST
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
22 40 00.UNL	URINAL, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-2	LAVATORY MIRROR, TYPICAL
TA-2F	FULL-LENGTH MIRROR
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL
TA-9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL
TA-12	SHOWER CURTAINS, RODS, AND HOOKS, 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.

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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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

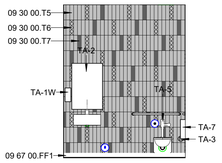
INTERIOR ELEVATIONS - RESTROOMS

A-944

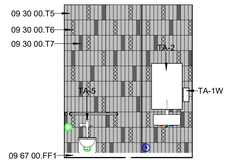
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INTERIOR ELEVATIONS - RESTROOMS
A-945
FOR BLUEBEAM LABELING/DOOR:

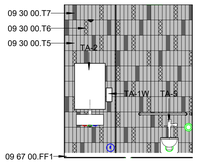
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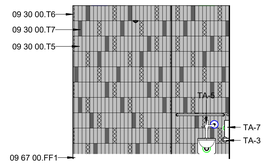
17 2123 & 2126 RR ELEVATION
1/4" = 1'-0"



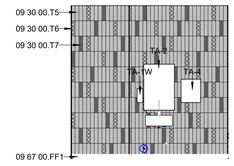
16 2110 STAFF RR - SOUTH
1/4" = 1'-0"



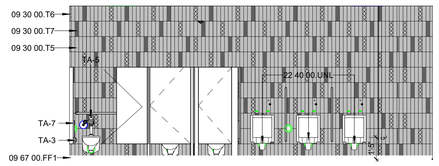
15 2150 RESTROOM - NORTH
1/4" = 1'-0"



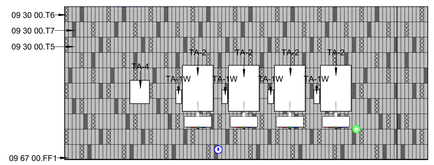
14 1119 RR - SOUTH
1/4" = 1'-0"



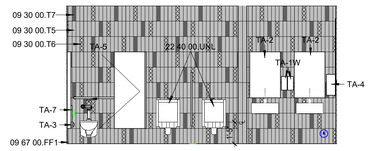
13 1119 RR - NORTH
1/4" = 1'-0"



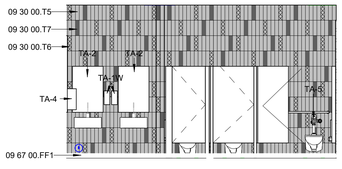
12 2149 BOYS RR - EAST
1/4" = 1'-0"



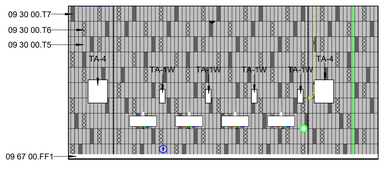
11 2149 BOYS RR - WEST
1/4" = 1'-0"



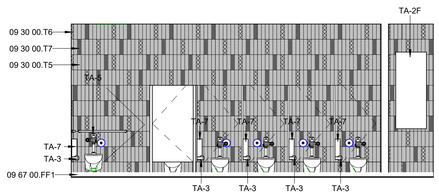
10 2507 MENS RR - SOUTH
1/4" = 1'-0"



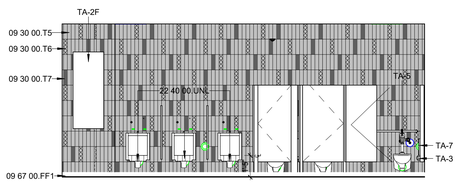
09 2508 WOMENS RR - NORTH
1/4" = 1'-0"



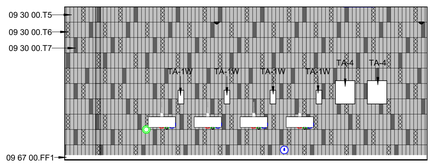
08 1109 GIRLS RR - EAST
1/4" = 1'-0"



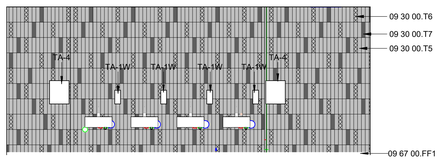
07 1109 GIRLS RR - WEST
1/4" = 1'-0"



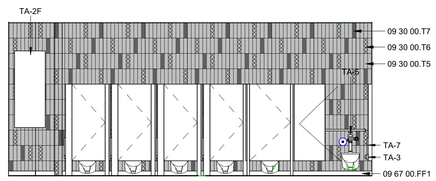
06 1112 BOYS RR - EAST
1/4" = 1'-0"



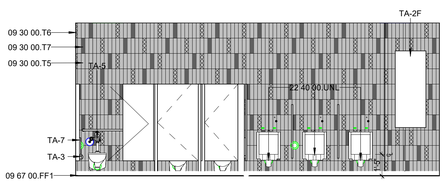
05 1112 BOYS RR - WEST
1/4" = 1'-0"



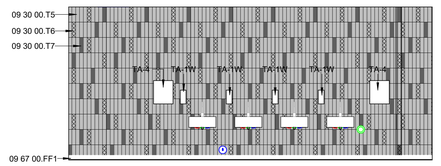
04 1154 GIRLS RR - EAST
1/4" = 1'-0"



03 1154 GIRLS RR - WEST
1/4" = 1'-0"



02 1152 BOYS RR - EAST
1/4" = 1'-0"



01 1152 BOYS RR - WEST
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
22 40 00.UNL	URINAL, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-2	LAVATORY MIRROR, TYPICAL
TA-2F	FULL-LENGTH MIRROR
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, 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.

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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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

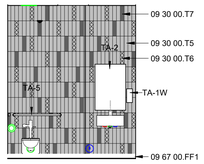
INTERIOR ELEVATIONS - RESTROOMS

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A-945

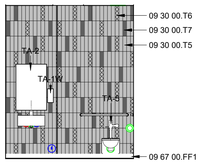
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INTERIOR ELEVATIONS - RESTROOMS
A-946
FOR BLUEBEAM LABELING/DOOR:

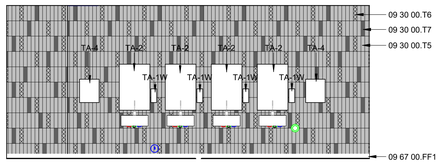
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1"



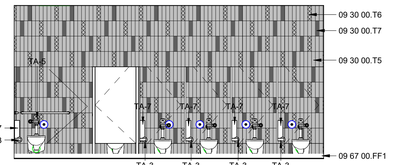
16 3110 STAFF RR - SOUTH
1/4" = 1'-0"



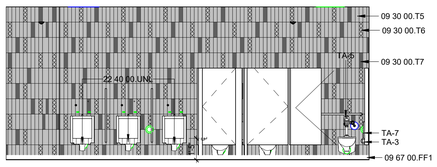
15 3143 RESTROOM - NORTH
1/4" = 1'-0"



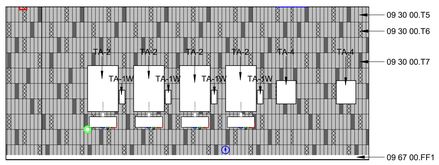
14 3109 GIRLS RR - EAST
1/4" = 1'-0"



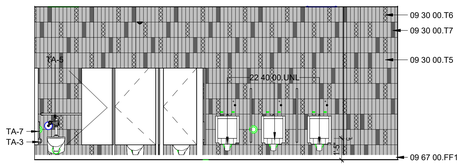
13 3109 GIRLS RR - WEST
1/4" = 1'-0"



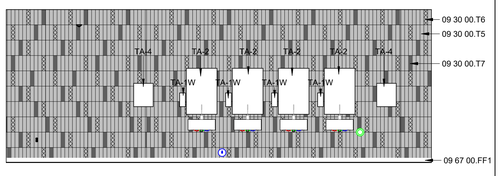
12 3111 BOYS RR - EAST
1/4" = 1'-0"



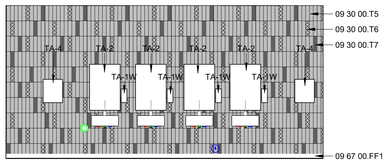
11 3111 BOYS RR - WEST
1/4" = 1'-0"



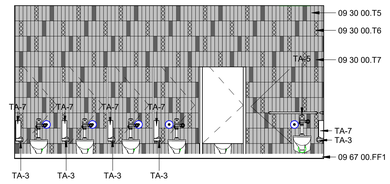
10 3142 BOYS RR - EAST
1/4" = 1'-0"



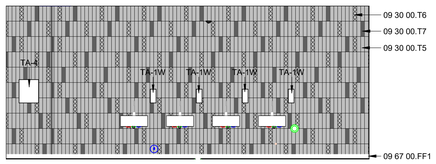
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1/4" = 1'-0"



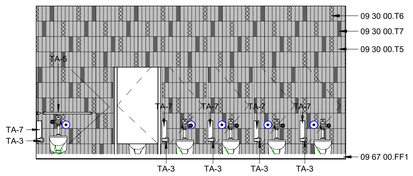
08 3144 GIRLS RR - EAST
1/4" = 1'-0"



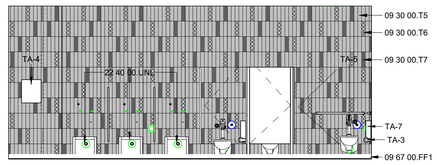
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1/4" = 1'-0"



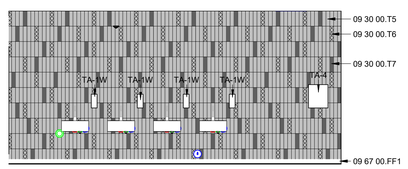
06 2109 GIRLS RR - EAST
1/4" = 1'-0"



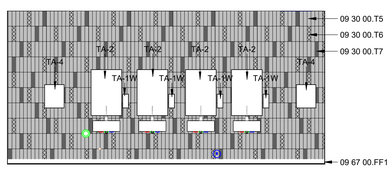
05 2109 GIRLS RR - WEST
1/4" = 1'-0"



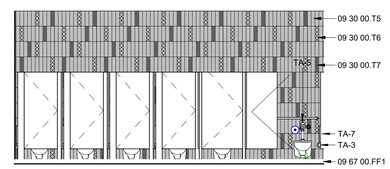
04 2111 BOYS RR - EAST
1/4" = 1'-0"



03 2111 BOYS RR - WEST
1/4" = 1'-0"



02 2151 GIRLS RR - EAST
1/4" = 1'-0"



01 2151 GIRLS RR - WEST
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
22 40 00.UNL	URINAL, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-2	LAVATORY MIRROR, TYPICAL
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL

TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
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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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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
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

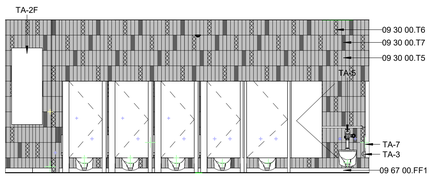
INTERIOR ELEVATIONS - RESTROOMS

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A-946

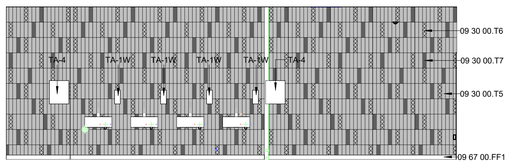
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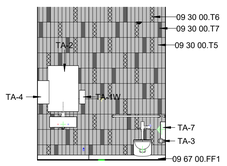
INTERIOR ELEVATIONS - RESTROOMS
A-947
FOR BLUEBEAM LABELING/DOOR:



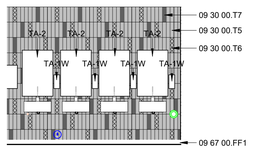
09 TYP. TILE PATTERN AT TOILET WALL
1/4" = 1'-0"



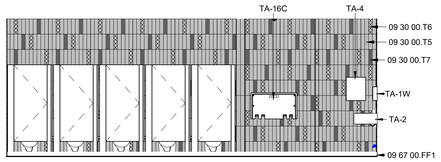
08 TYP. TILE PATTERN AT RR/SINK WALL
1/4" = 1'-0"



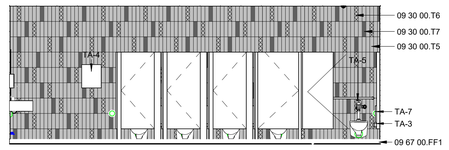
07 SINGLE USER RR - TYP. WALL TILE PATTERN
1/4" = 1'-0"



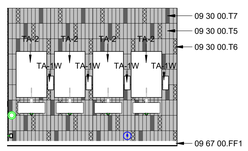
06 1501 WOMENS RR - SOUTH
1/4" = 1'-0"



05 1501 WOMENS RR - EAST
1/4" = 1'-0"



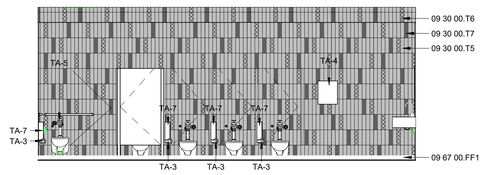
04 1501 WOMENS RR - WEST
1/4" = 1'-0"



03 1506 MENS RR - NORTH
1/4" = 1'-0"



02 1506 MENS RR - EAST
1/4" = 1'-0"



01 1506 MENS RR - WEST
1/4" = 1'-0"

KEYNOTE LEGEND

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22 40 00.UNL	URINAL, REFER TO PLUMBING
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TA-2	LAVATORY MIRROR, TYPICAL
TA-2F	FULL-LENGTH MIRROR
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL
TA-16C	BABY CHANGING STATION

TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
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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,	
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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	

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INTERIOR ELEVATIONS - RESTROOMS

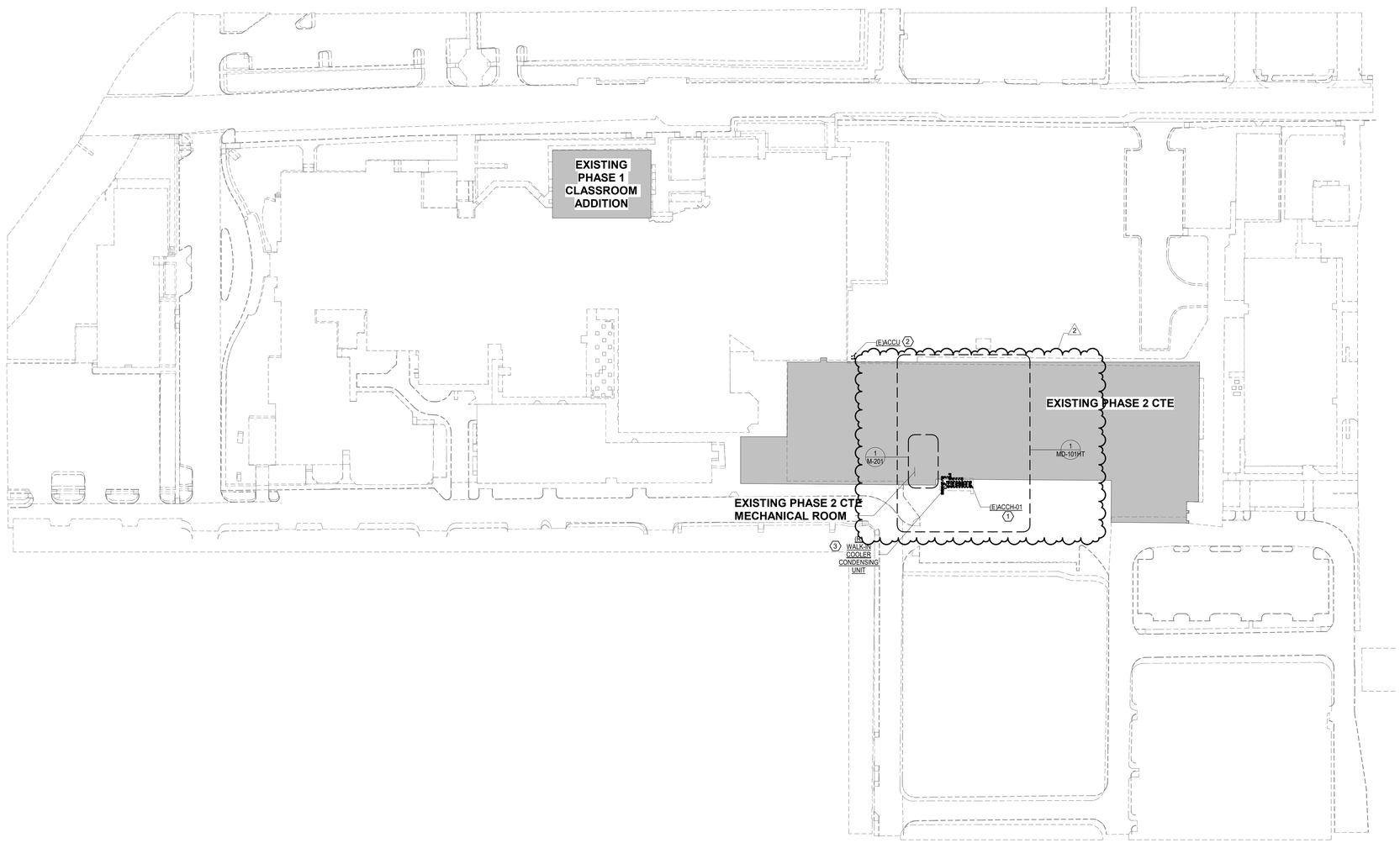
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A-947

Plot Stamp:
12/18/2025 6:18:37 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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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

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
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

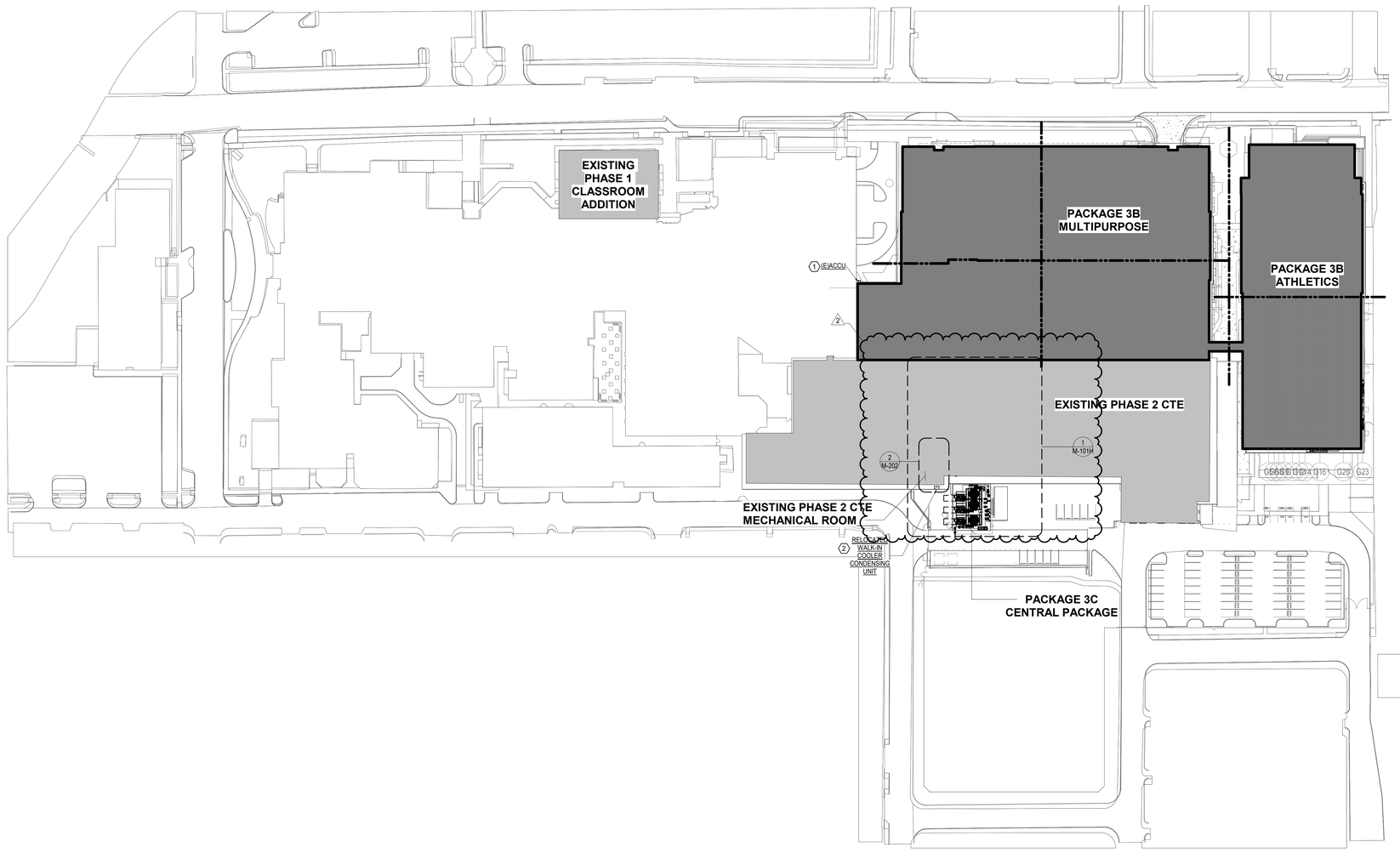
MECHANICAL DEMO SITE PLAN

MD-100

Plot Stamp:
12/18/2025 6:20:21 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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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

KEY PLAN
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111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
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F-18672

CLIENT	
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December 5, 2025	240539

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DRAWN BY: Author

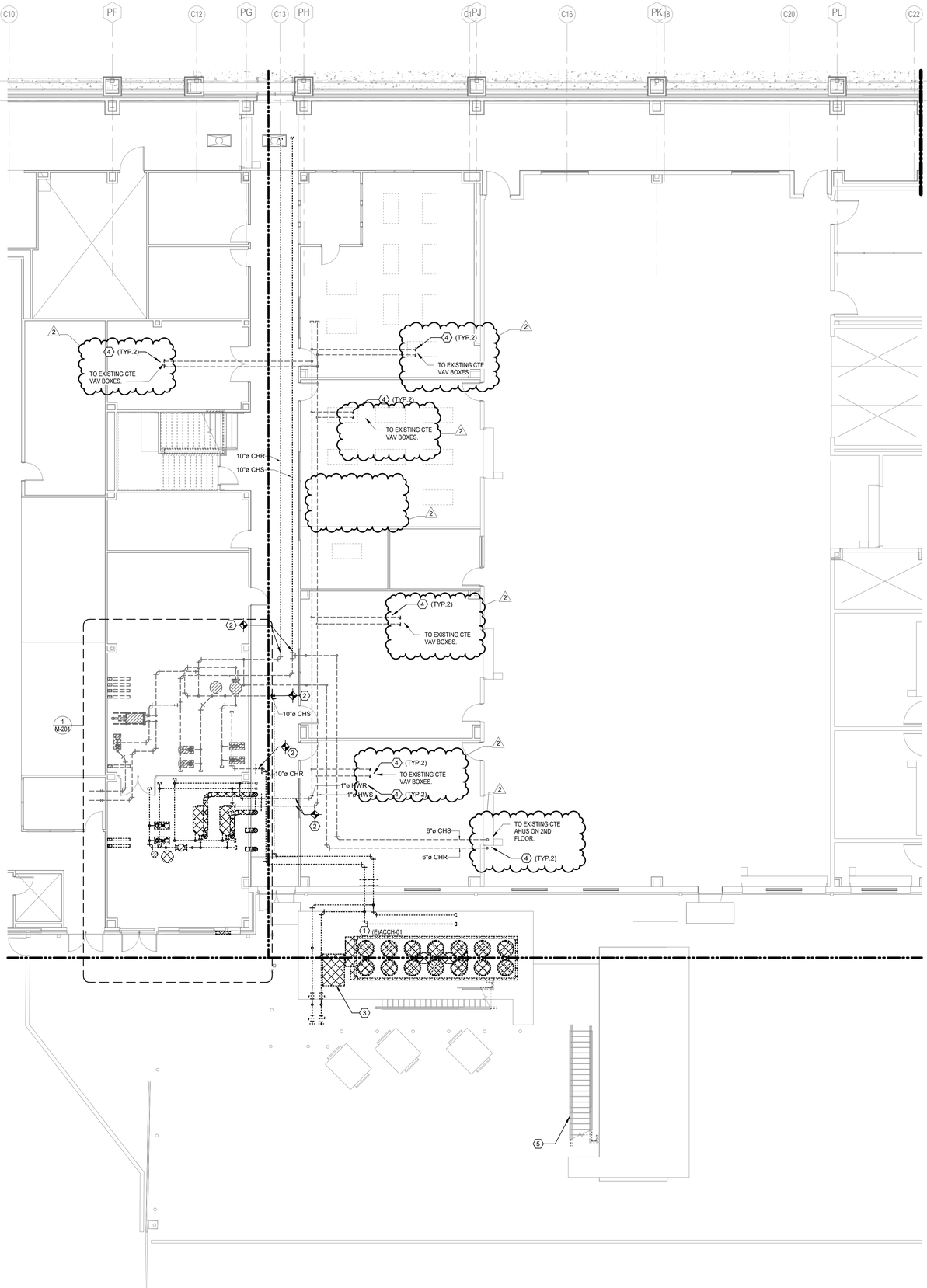
MECHANICAL SITE PLAN

MS-100

Plot Stamp:
12/18/2025 6:20:33 PM

0"
1"

1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE
MD-101HT
FOR BLUEBEAM LABELING/OCR:



MECHANICAL GENERAL NOTES:

ALL WORK ON THIS SHEET TO BE COMPLETED IN THE SUMMER OF 2026 PRIOR TO THE ARRIVAL OF PKG 3C CENTRAL PLANT. COORDINATE EXACT TIMING OF WORK WITH OWNER

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.
4. EXISTING HYDRONIC PIPING TO REMAIN.
5. EXISTING GENERATOR AND GENERATOR PLATFORM. GENERATOR PLATFORM TO BE MODIFIED TO ACCOMMODATE NEW PKG 3C CENTRAL PLANT. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR DETAILS.

1 1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE
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

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
2	ADD 03	2025/12/19

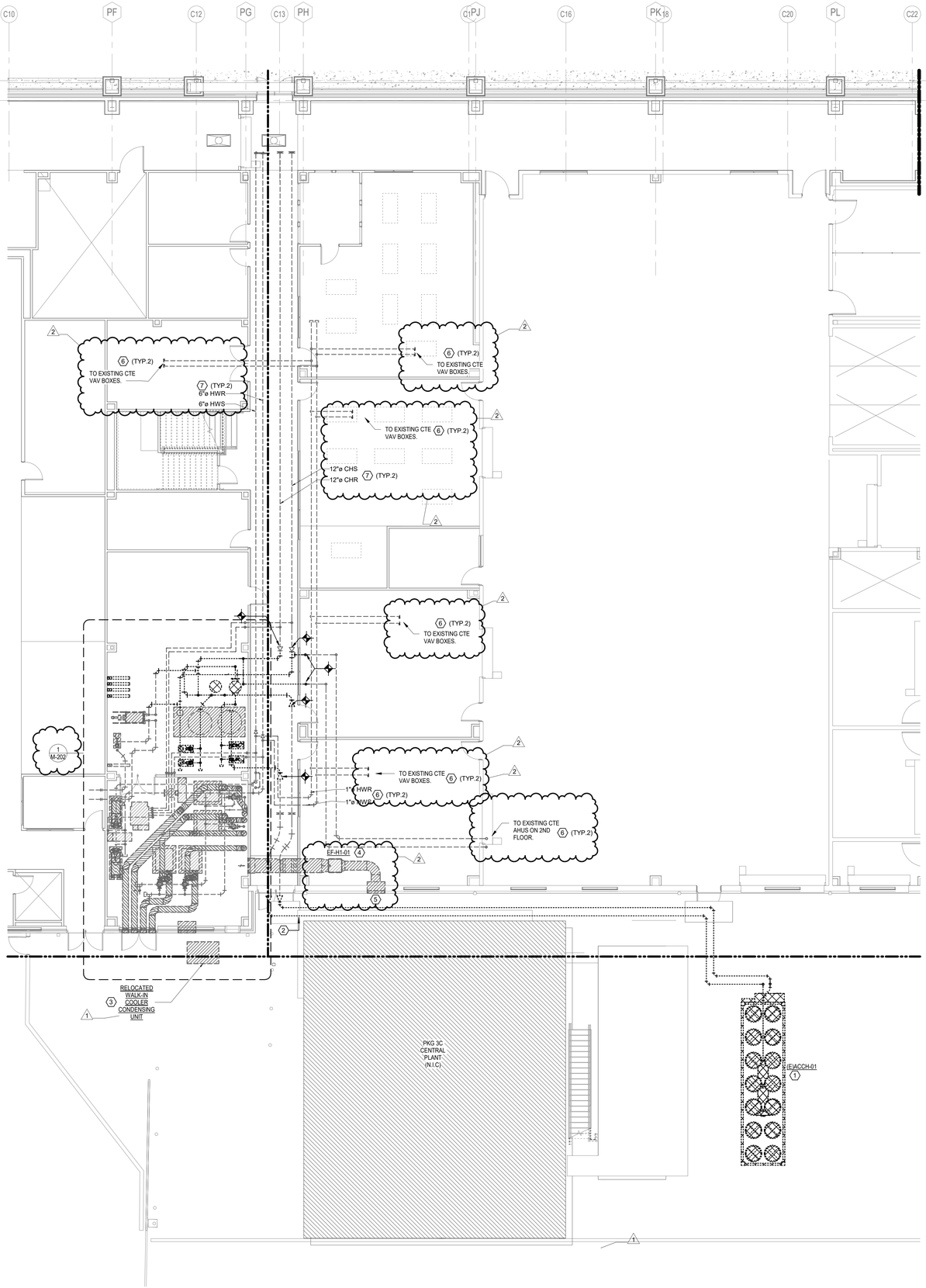
CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR TEMPORARY MECHANICAL DEMO PLAN - AREA H - CTE

MD-101HT

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.
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 TO REMAIN. SEE M-101HT FOR DETAILS.
5. LOUVER INSTALLED DURING INSTALLATION OF BOILER SYSTEM TO REMAIN. SEE M-101HT FOR DETAILS.
6. EXISTING HYDRONIC PIPING TO REMAIN.
7. MAIN HYDRONIC LINES INSTALLED DURING THE SUMMER OF 2026 TO REMAIN. SEE M-101HT FOR DETAILS.

1 1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE
1/8" = 1'-0"

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

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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

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CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
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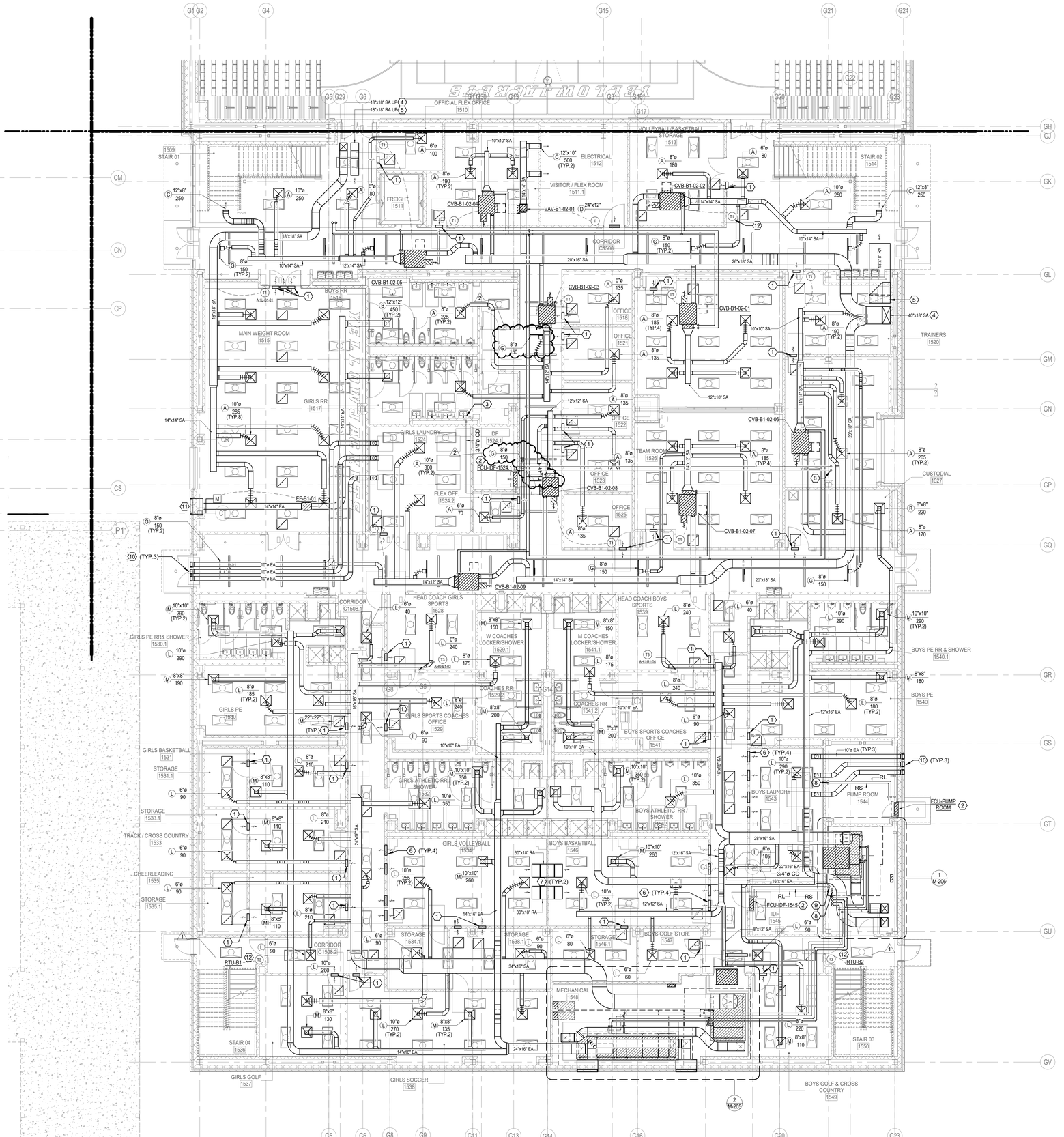
CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE

MD-101H

Plot Stamp:
12/18/2025 6:20:35 PM

1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-101B
FOR BLUEBEAM LABELING/DOCR:



1 1ST FLOOR MECHANICAL PLAN - AREA B 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. 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.
12. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.

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

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CLIENT PROJECT NO: 240539

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
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December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

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1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

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1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-101B

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0"
1"

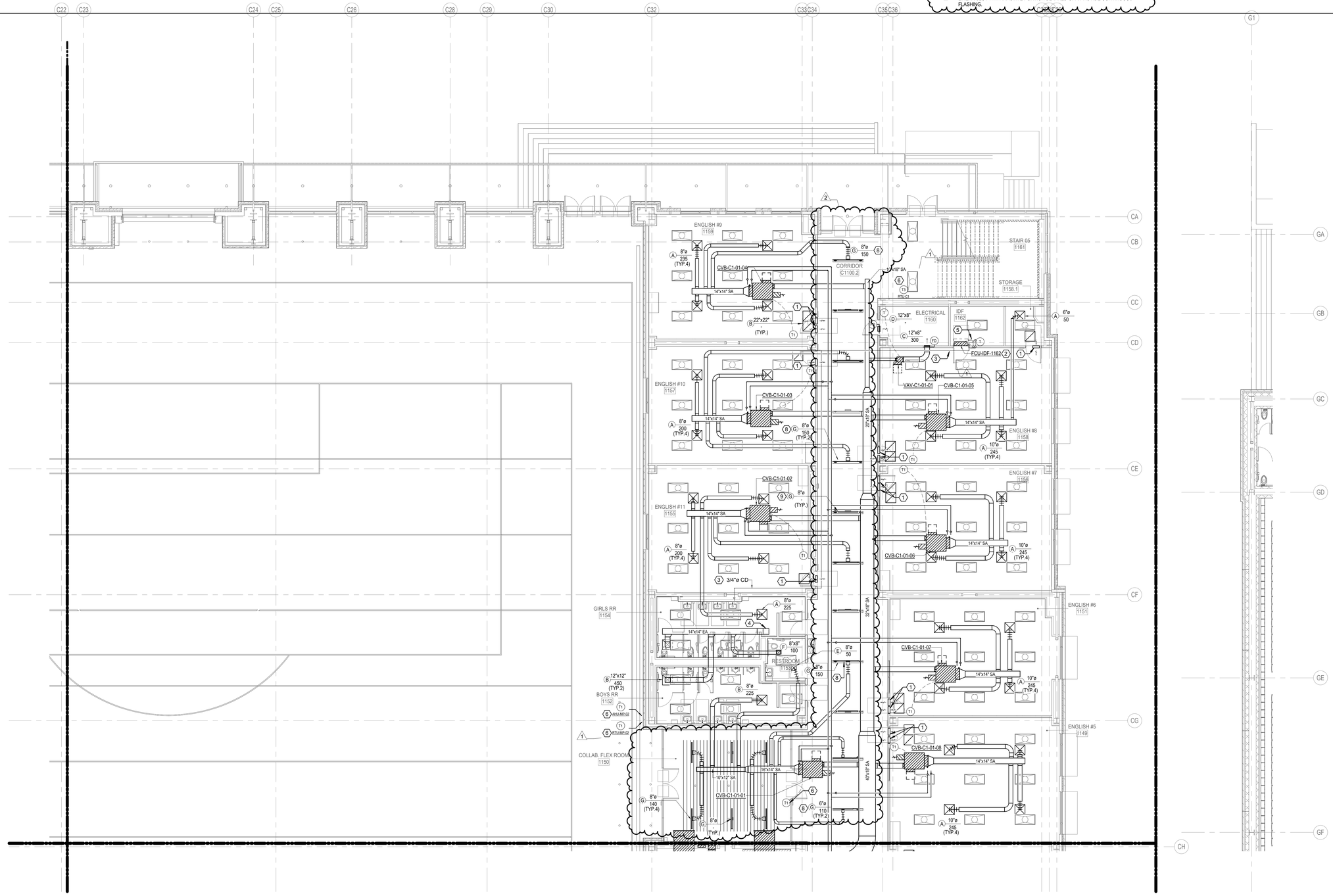
1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY

M-101C 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 THE NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. 12" x 14" EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-102C FOR CONTINUATION.
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.
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-102C FOR CONTINUATION.
8. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
9. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
10. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING.



1 1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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

1000 Keene St.
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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

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1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

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1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101C

0"
1"

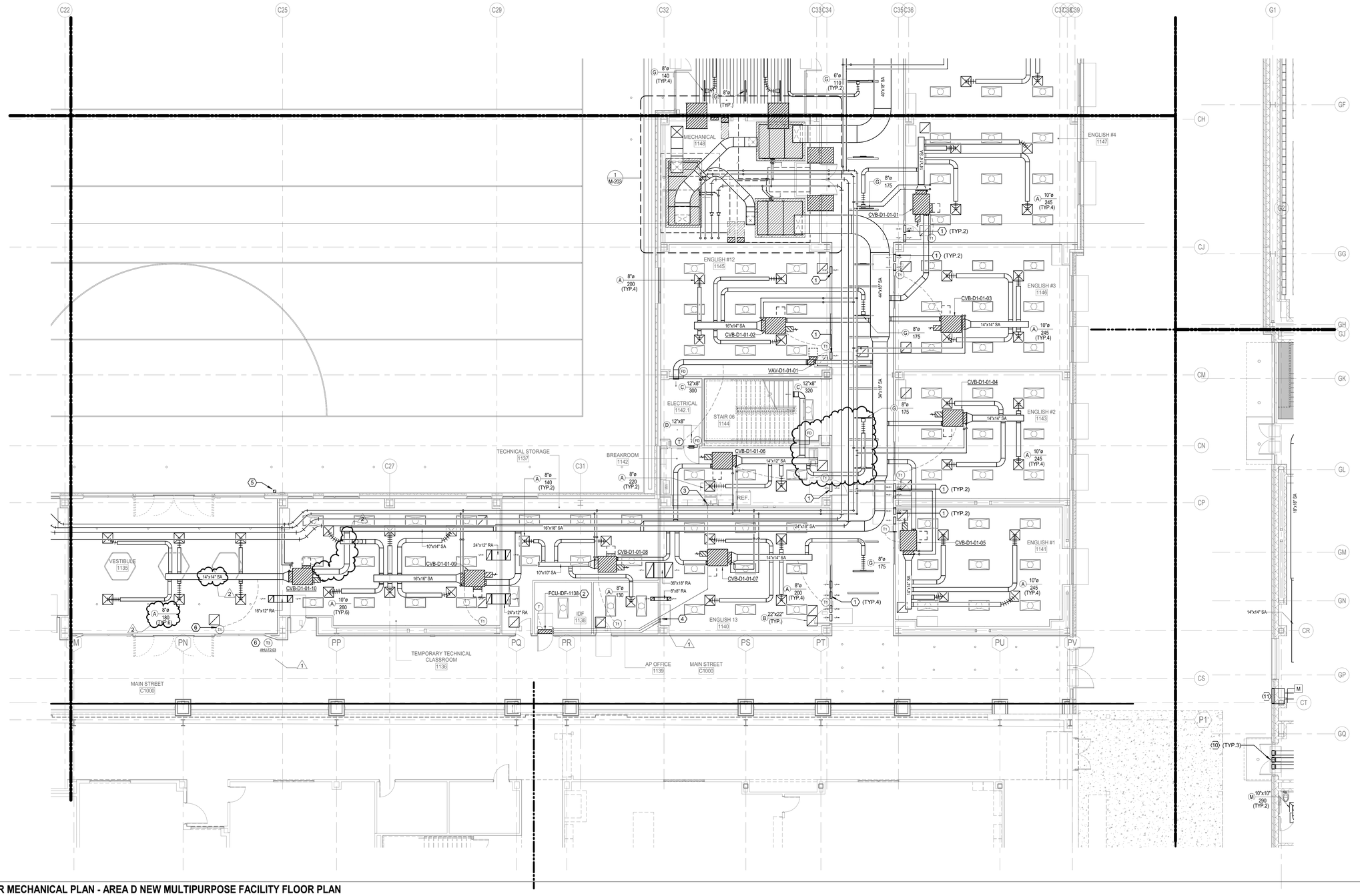
1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

M-101D 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-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
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.



1 1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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1000 Keene St.
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CLIENT PROJECT NO: 240539
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EXCELLENCE IN ALL FORMS OF LEARNING

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
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1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

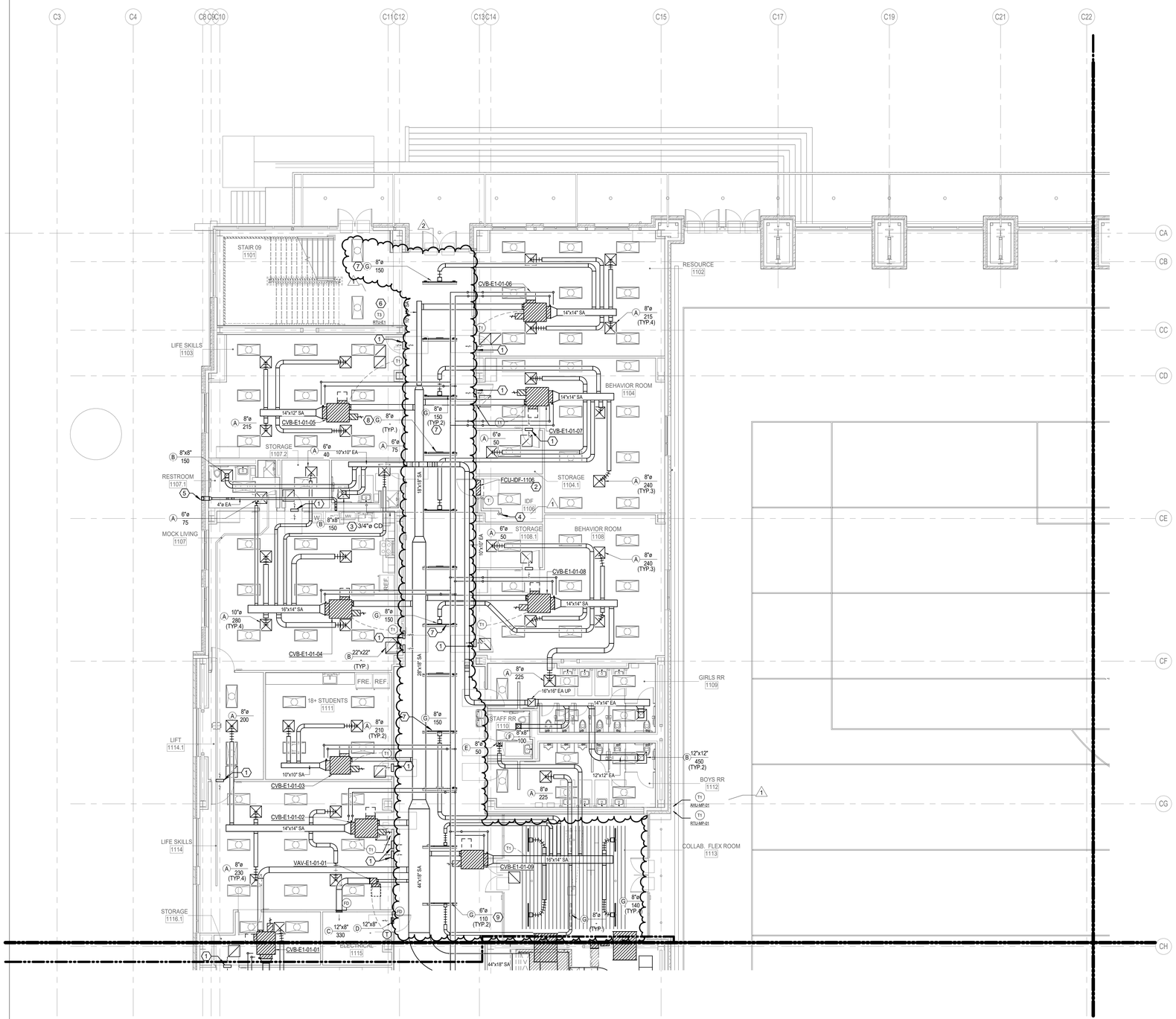
M-101D

1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY

M-101E FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:

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 THE NEAREST LAVATORY TAILPIECE. 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.
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
8. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
9. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING.

1 1ST FLOOR MECHANICAL PLAN - AREA E 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
BUILDING REAL FUTURES

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025

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F-18672

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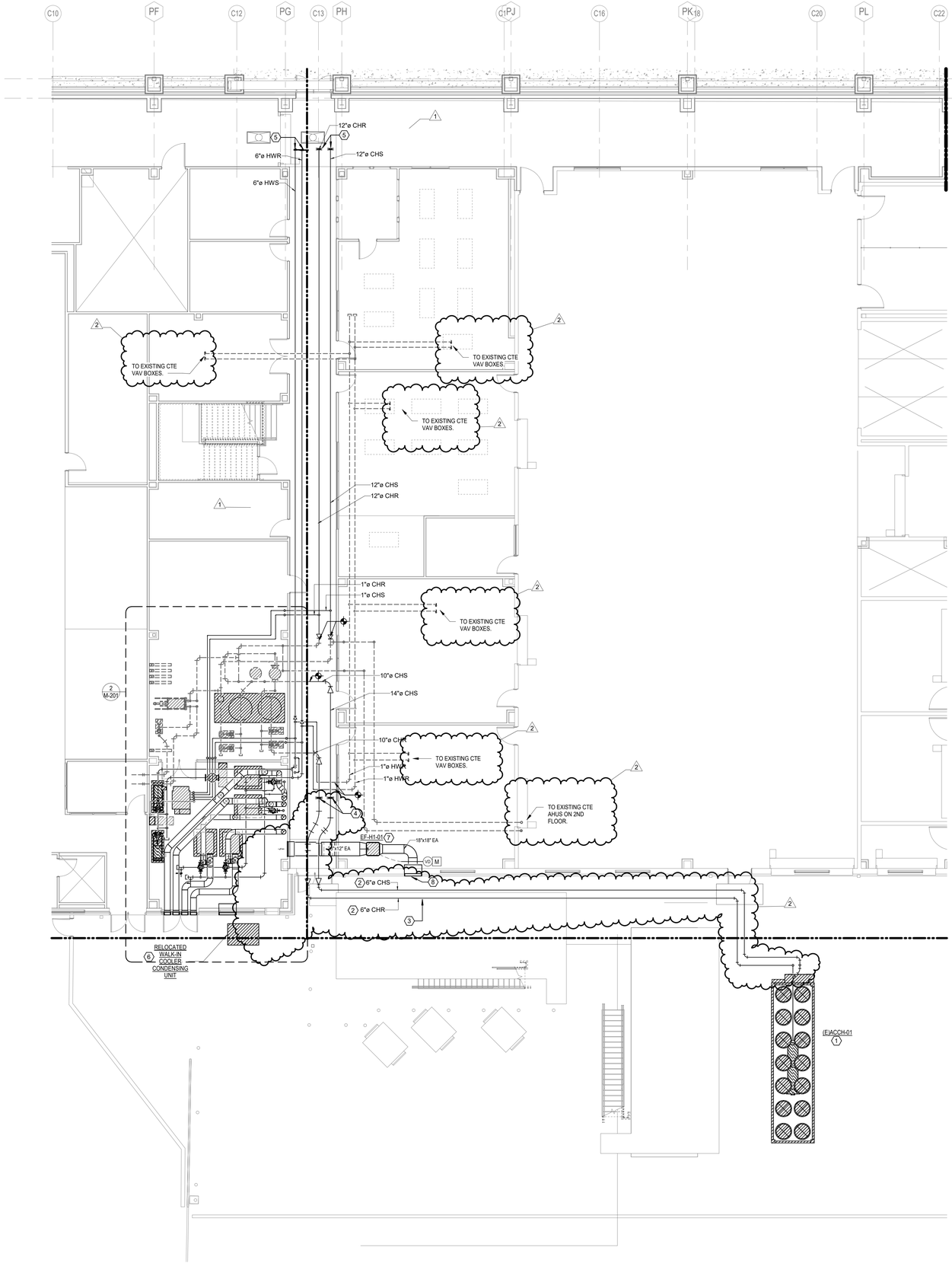
1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101E

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1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE
M-101HT
FOR BLUEBEAM LABELING/OCR:

0"
1"



MECHANICAL GENERAL NOTES:

ALL WORK ON THIS SHEET TO BE COMPLETED IN THE SUMMER OF 2026 PRIOR TO THE ARRIVAL OF PKG 3C CENTRAL PLANT. COORDINATE EXACT TIMING OF WORK WITH OWNER

MECHANICAL KEYED NOTES:

1. RELOCATED CHILLER TO BE PLACED ON TRAILER BY DERRYBERRY (DARLY MARTIN) DURING THE SUMMER OF 2026. PROVIDE TEMPORARY CONNECTIONS FROM RELOCATED CHILLER TO 14" CHS/R ABOVE CANOPY. CONTRACTOR SHALL BE RESPONSIBLE FOR CHILLER STARTUP. INSTALLING CONTRACTOR TO ENSURE CHILLER WARRANTY IS MAINTAINED AFTER TEMPORARY RELOCATION.
2. PROPOSED LAYOUT FOR TEMPORARY 6" CHS/R PIPING CONNECTING TEMPORARY CHILLER. PIPING SHOULD NOT BLOCK ENTRANCES INTO THE BUILDING AND WELDING STATIONS UNDER GENERATOR PLATFORM. CONTRACTOR SHALL COORDINATE TEMPORARY PIPING ROUTING WITH OWNER.
3. PROVIDE TEMPORARY SUPPORTS FOR PIPING 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 AND BLIND FLANGE FOR 12" CHS/R AND 6" 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 IN-LINE FAN EF-H1-01 TO BE SUSPENDED FROM STRUCTURE.
8. 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.

1 1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE
1/8" = 1'-0"

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

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CLIENT PROJECT NO: 240539
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Galena Park ISD
EXCELLENCE IN ALL PUBLIC ED.

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

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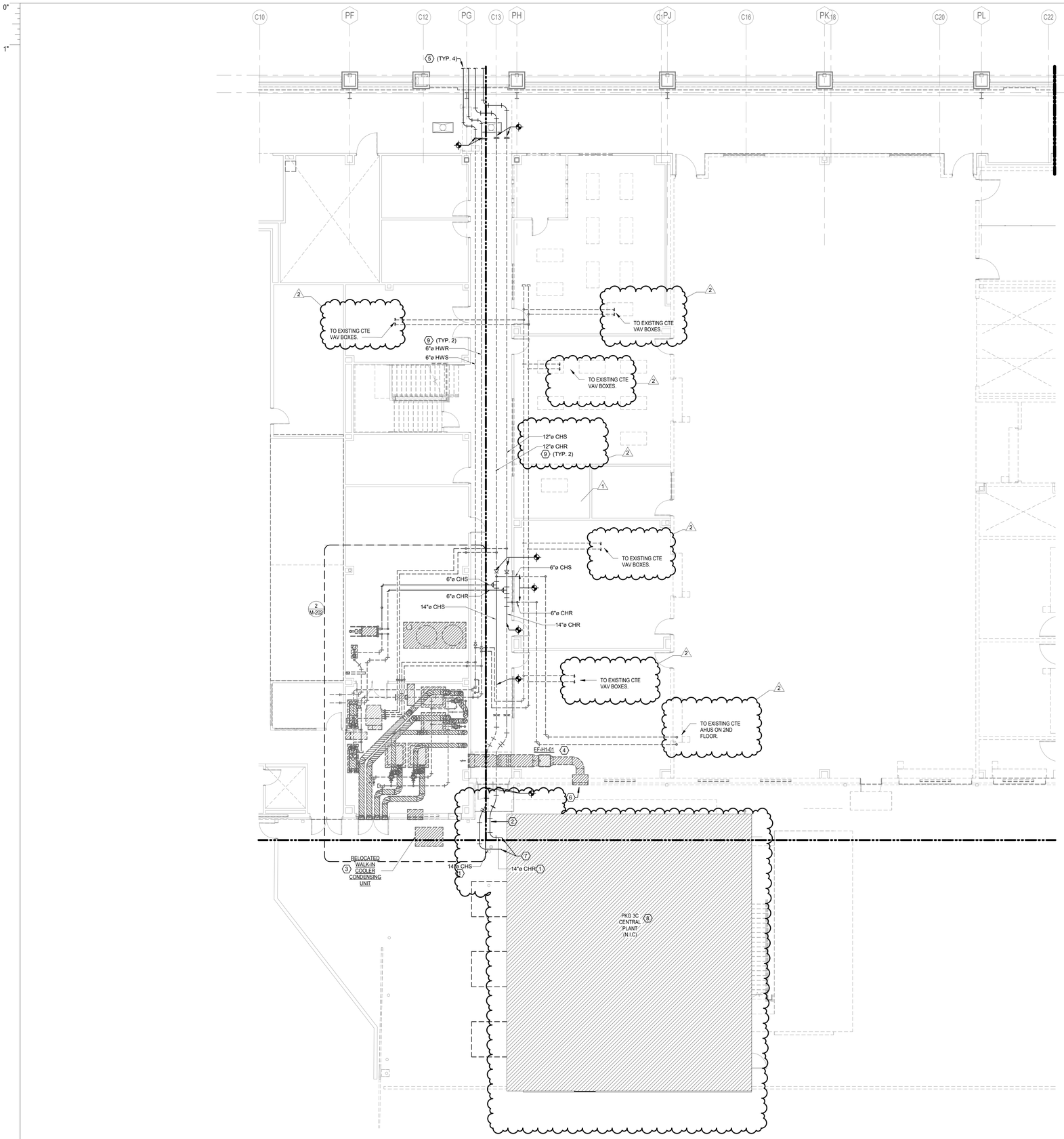
1ST FLOOR TEMPORARY MECHANICAL PLAN - AREA H - CTE

M-101HT

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12/18/2025 6:21:18 PM

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 CORRIDOR
2. REFER TO STRUCTURAL DRAWINGS FOR PIPING SUPPORT FOR 14" CHS/R
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 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.
9. MAIN HYDRONIC LINES INSTALLED DURING THE SUMMER OF 2026. SEE M-101HT FOR DETAILS.

1 1ST FLOOR MECHANICAL PLAN - AREA H - CTE
1/8" = 1'-0"

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

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CLIENT PROJECT NO: 240539
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Galena Park ISD
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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-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

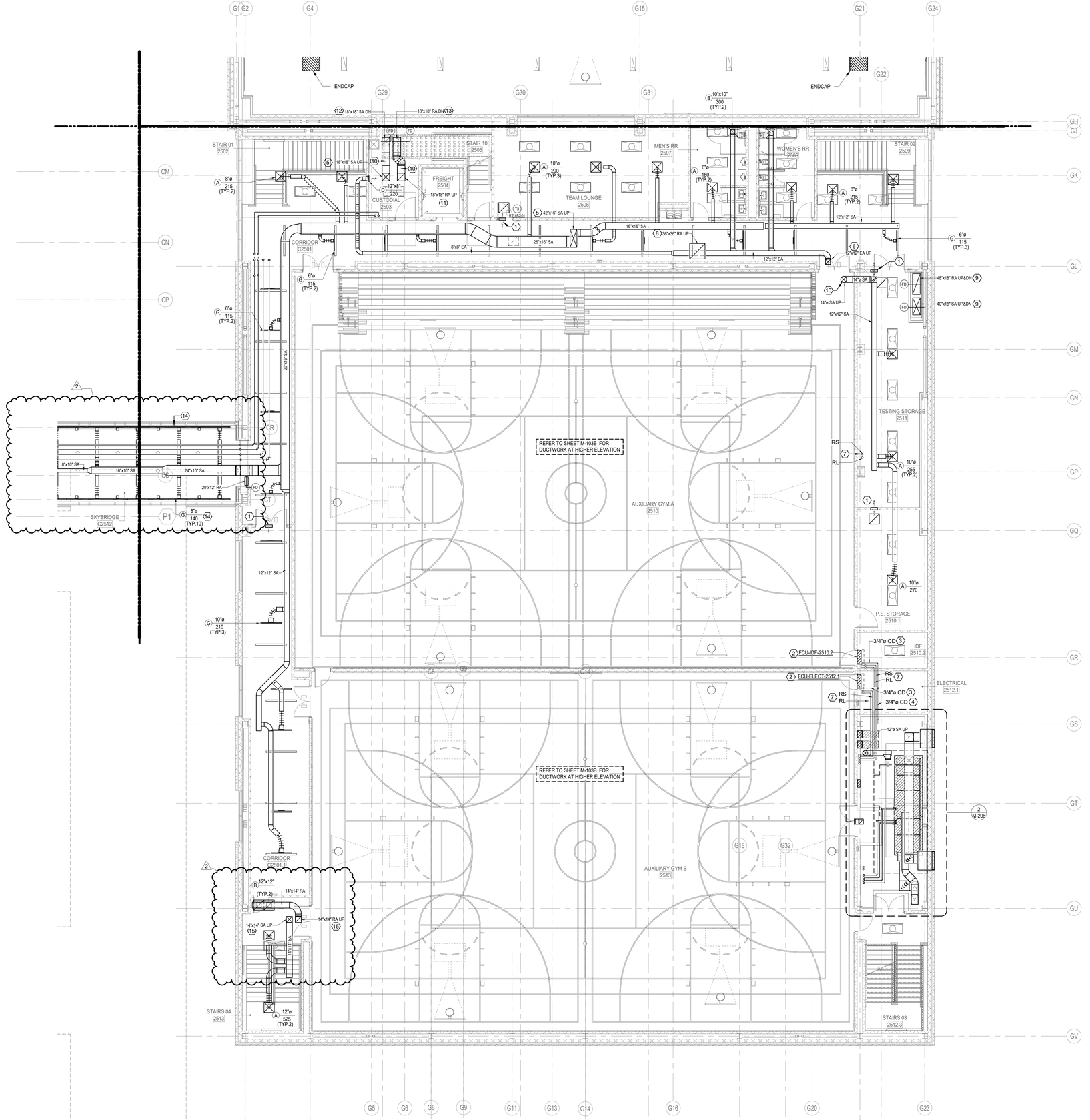
CHECKED BY: MP
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1ST FLOOR MECHANICAL PLAN - AREA H - CTE

M-101H

Plot Stamp:
12/18/2025 6:21:17 PM

2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM 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 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
15. ROUTE SUPPLY AND RETURN AIR DUCTWORK UP TO ROOF. SEE M-103B AND M-301 FOR CONTINUATION.

1 2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

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2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-102B

Plot Stamp:
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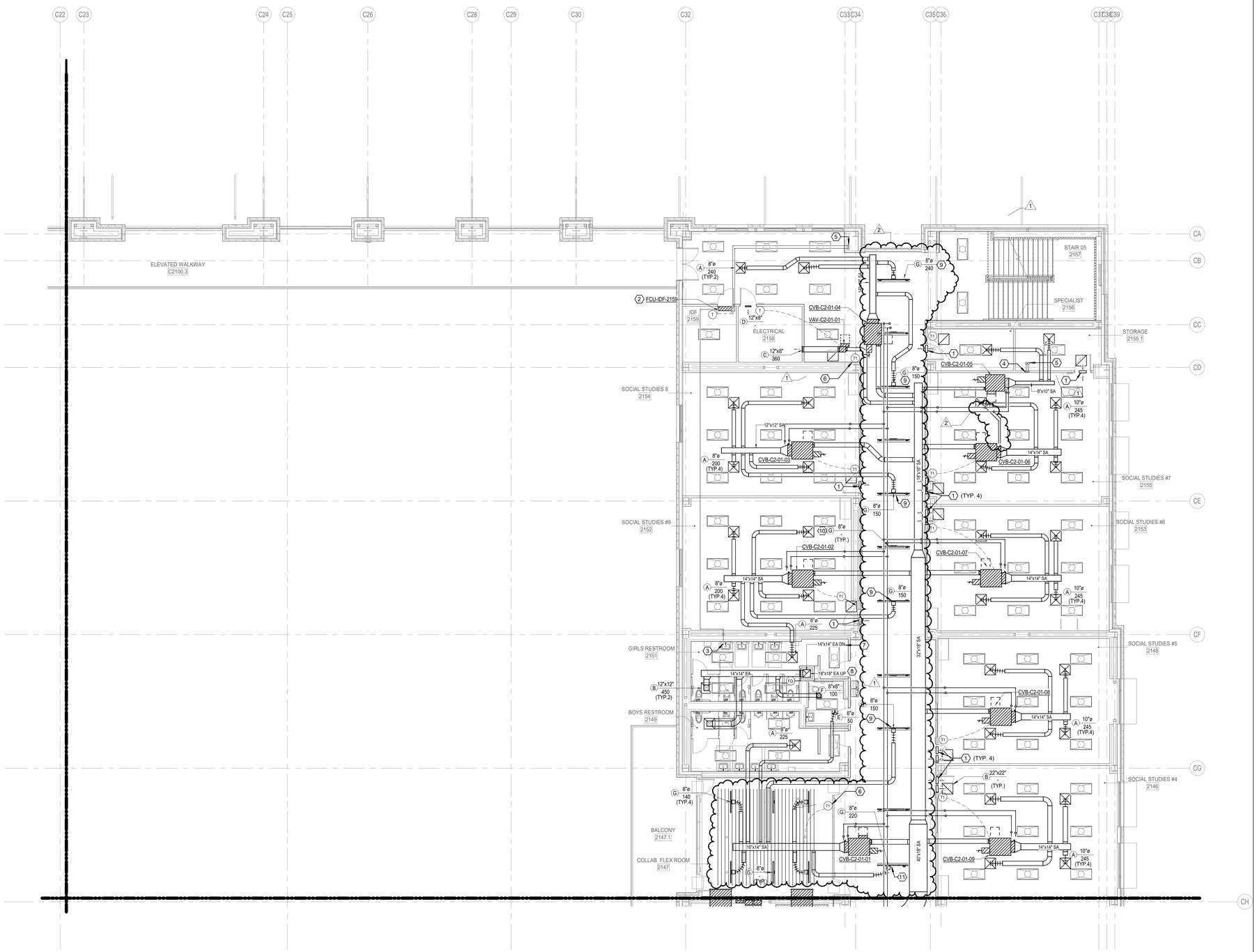
2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY

M-102C PLAN

FOR BLUEBEAM LABELING/OCR:

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 TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. REFRIGERANT PIPING ROUTING FROM THE LEVEL BELOW. 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.
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-101C FOR CONTINUATION.
8. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-103C FOR CONTINUATION.
9. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
10. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
11. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING.

1 2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

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KEY PLAN

NORTH: PLAN ≈ TRUE

STATE OF TEXAS
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111622
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
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: MP

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2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102C

0"
1"

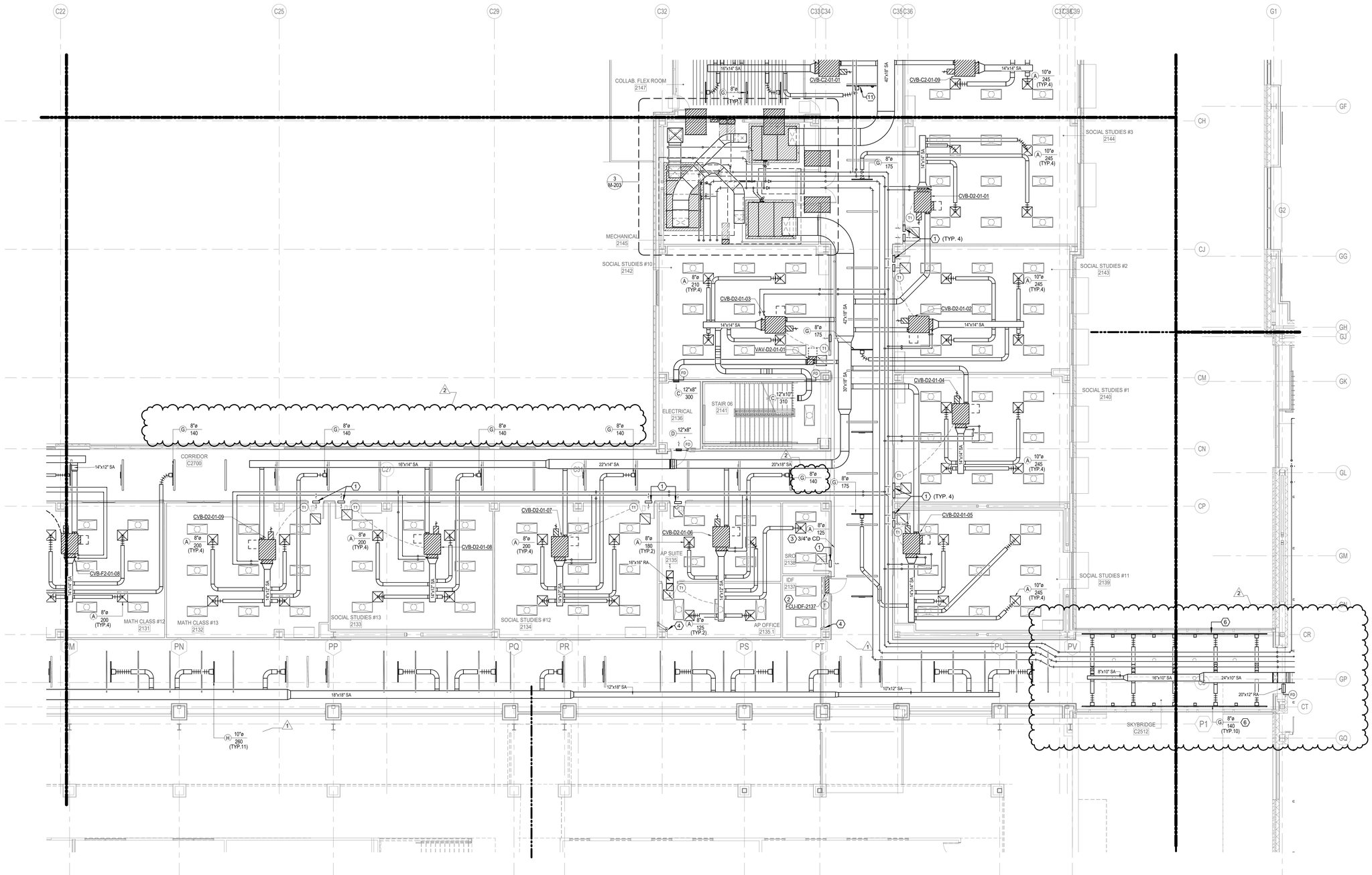
2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

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.
5. 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 D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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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
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

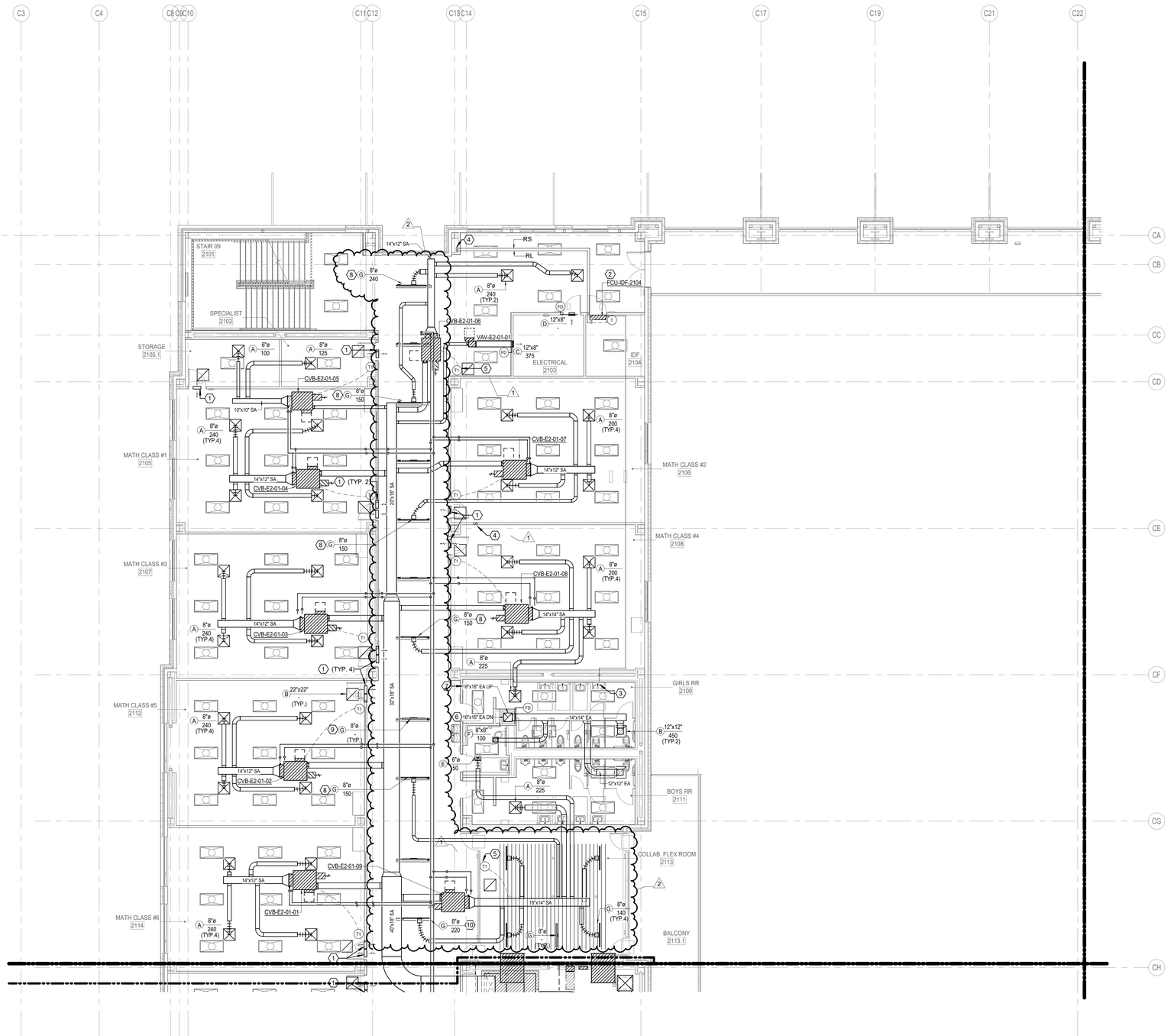
2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102D

2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY

M-102E PLAN

FOR BLUEBEAM LABELING/DOCR:



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.
5. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
6. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-101E FOR CONTINUATION.
7. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-103E FOR CONTINUATION.
8. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
9. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
10. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING.

1 2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
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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
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2	ADD 03	2025/12/19

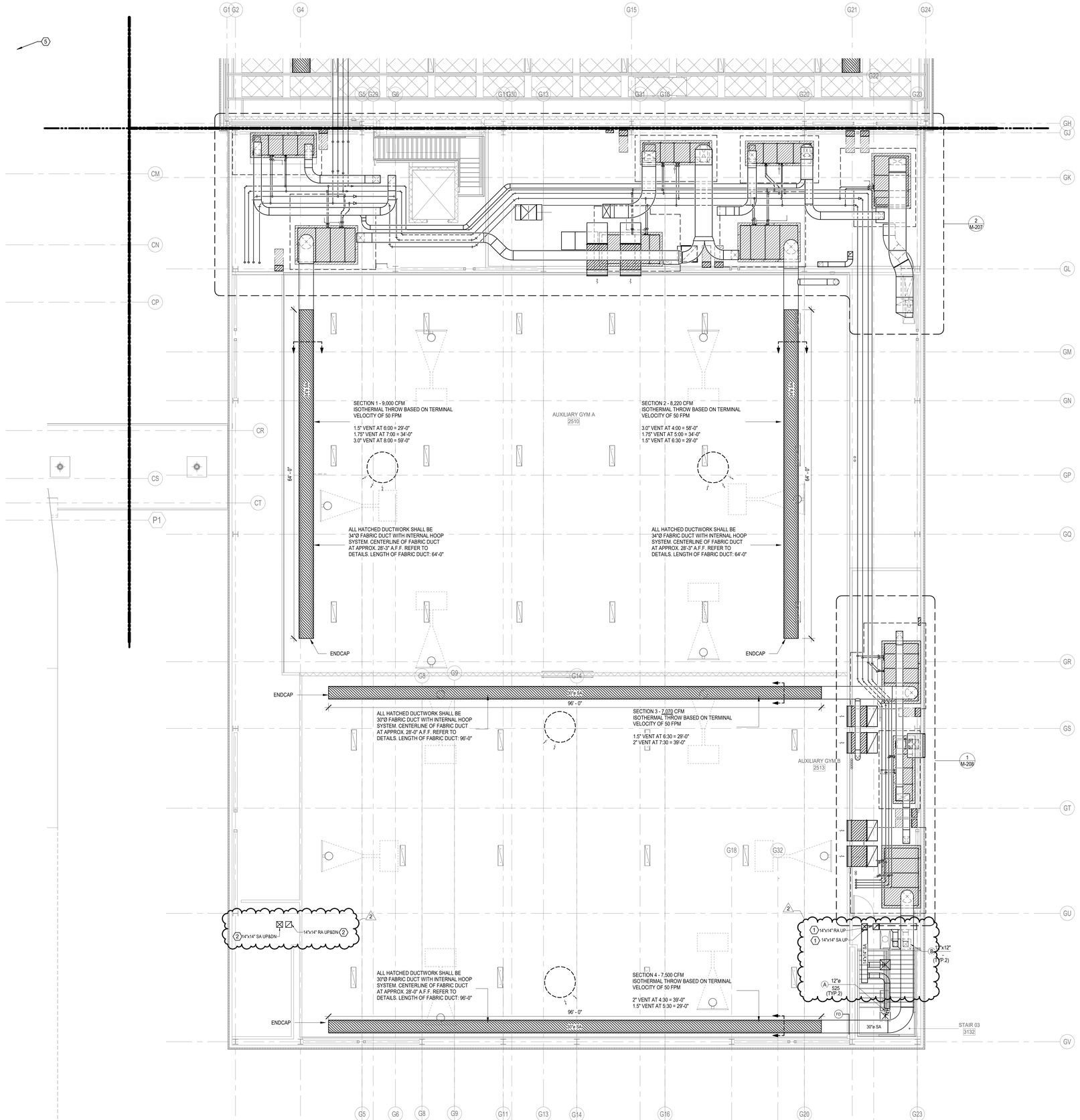
CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102E

Plot Stamp:
12/18/2025 6:21:42 PM

3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-103B
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. SUPPLY AND RETURN DUCTWORK UP TO ROOF. SEE M-301 FOR CONTINUATION.
2. SUPPLY AND RETURN DUCTWORK FROM ROOF TO 2ND LEVEL SEE M-301 AND M-102B FOR CONTINUATION.

1 3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN TEST
SCALE: 1/8" = 1'-0"

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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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CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

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3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-103B

3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY

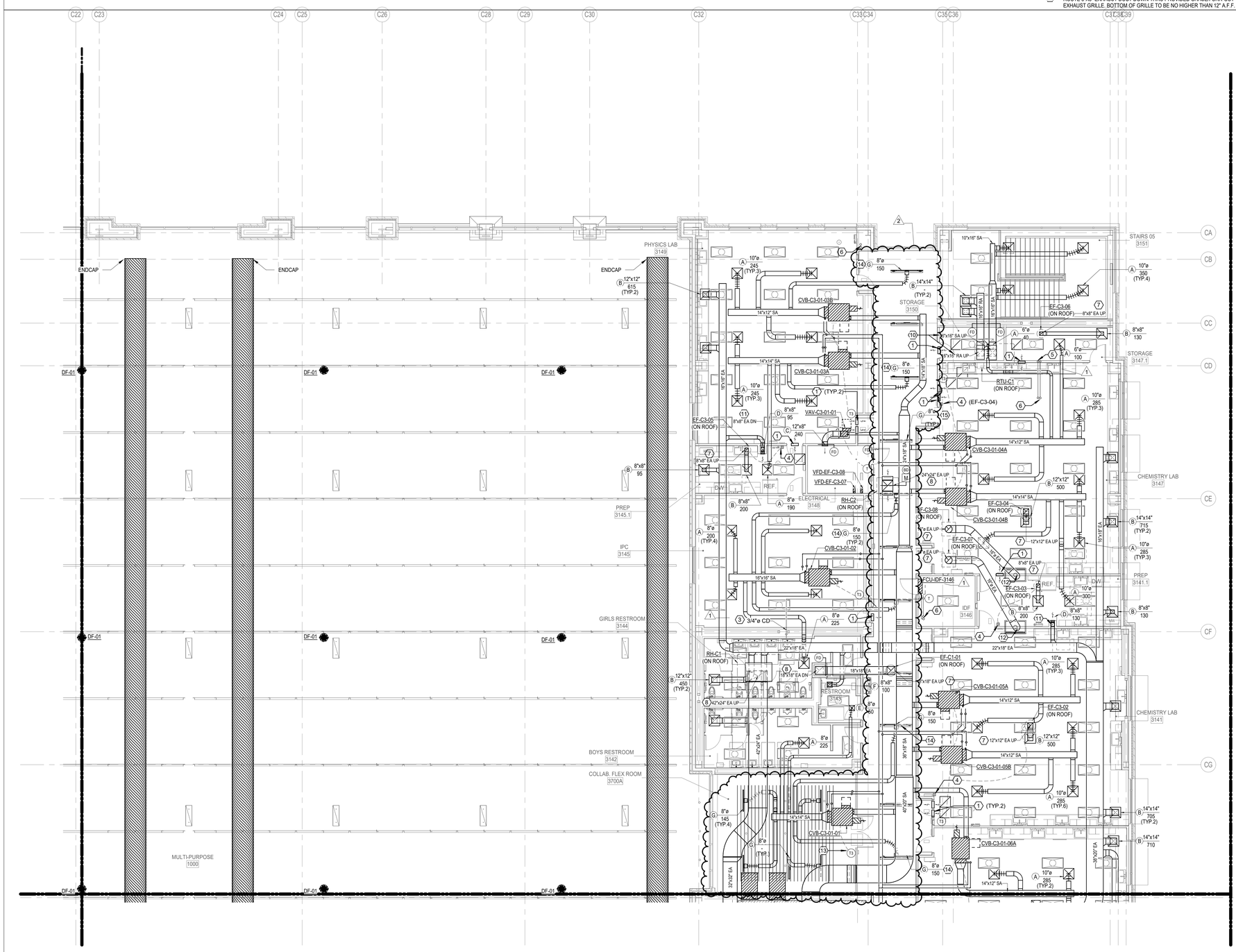
FLOOR PLAN
M-103C

FOR BLUEBEAM LABELING/OCR:

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 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. REFRIGERANT PIPING ROUTING FROM LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
6. 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.
7. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
8. EXHAUST DUCT UP TO RELIEF HOOD ON ROOF. TRANSITION TO UNIT INLET.
9. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-102C FOR CONTINUATION.
10. RETURN AND SUPPLY DUCTWORK UP TO RTU. PROVIDE TRANSITIONS TO UNIT INLET.
11. 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.
12. EXHAUST DUCT DOWN TO FUME HOOD INLET. PROVIDE TRANSITIONS AS REQUIRED TO MAKE CONNECTION.
13. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
14. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
15. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.



1 3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

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

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KEY PLAN
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DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

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/DOCR:

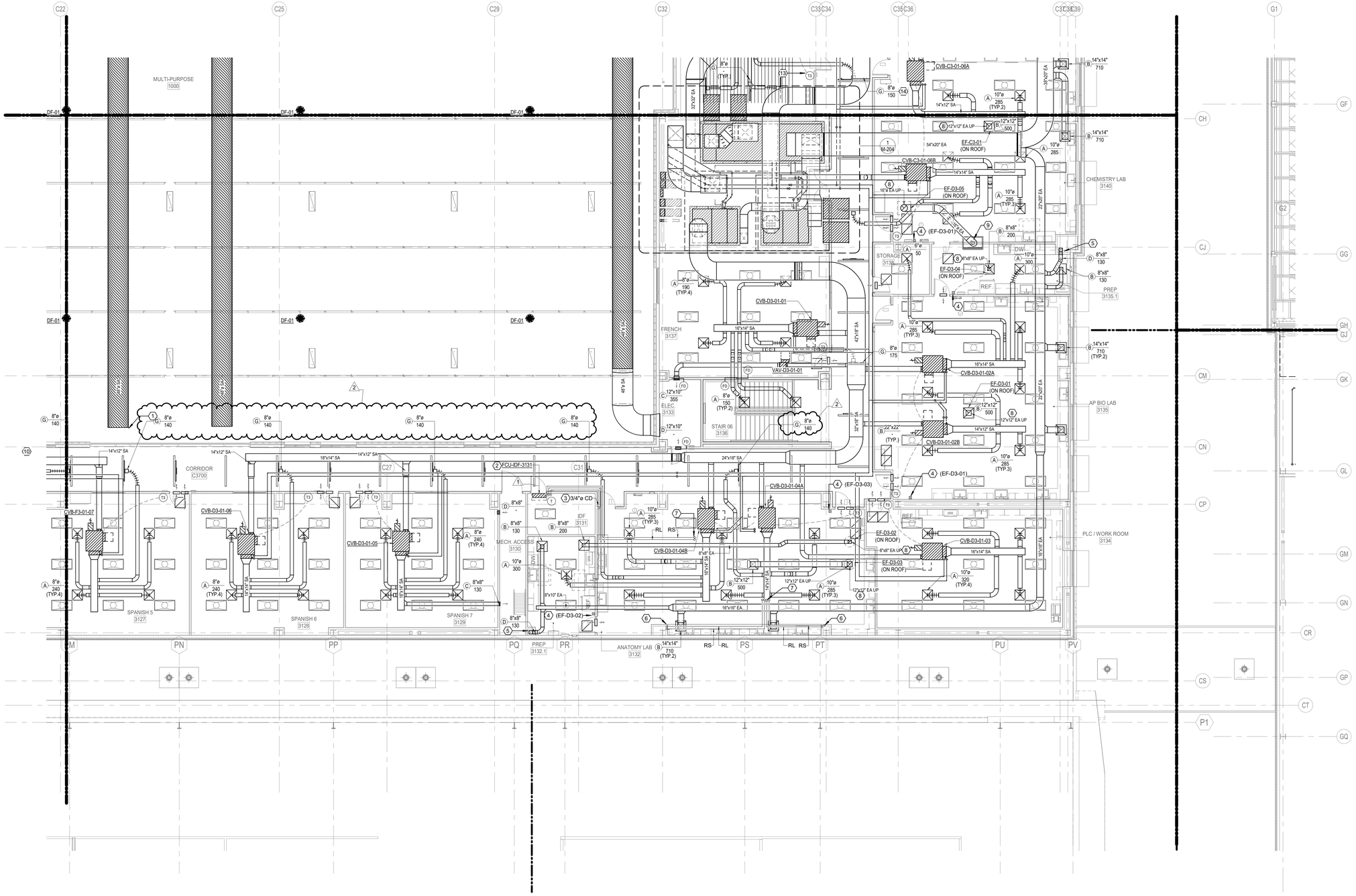
0"

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 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.
6. REFRIGERANT PIPING ROUTING FROM LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
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. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
9. EXHAUST DUCT DOWN TO FUME HOOD INLET. PROVIDE TRANSITIONS AS REQUIRED TO MAKE CONNECTION.

   AFTER RECTANGULAR CVB TAP, TRANSITION SUPPLY AIR DUCTWORK AS SHOWN ON DETAIL 04/601.



1 3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

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

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

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KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
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111622
LICENSED PROFESSIONAL ENGINEER

December 5, 2025

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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
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CHECKED BY: MP

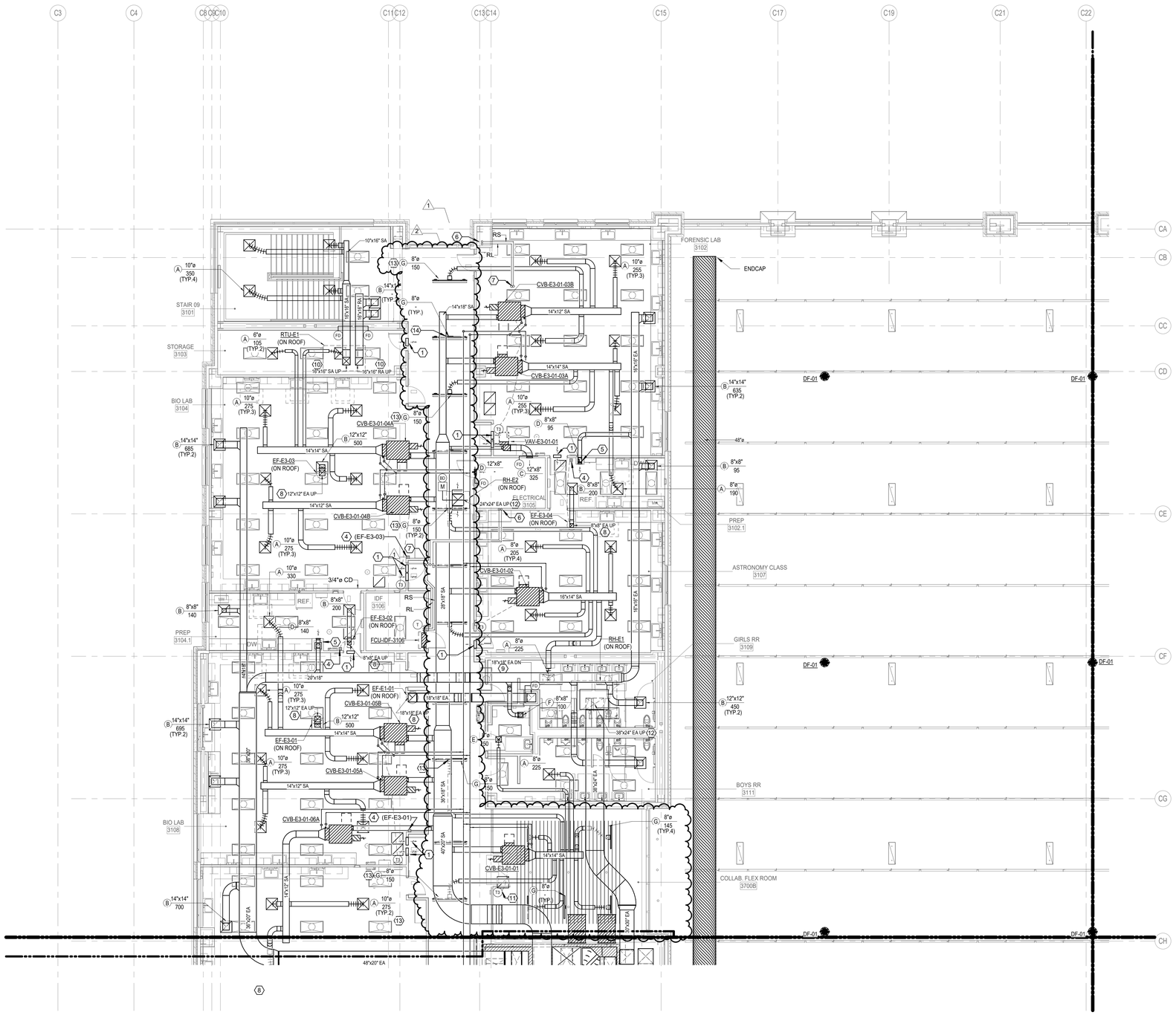
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103D

0"
1"

3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY
FLOOR PLAN
M-103E
FOR BLUEBEAM LABELING/DCR:



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.
6. REFRIGERANT PIPING ROUTING FROM THE LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
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. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
9. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-102C FOR CONTINUATION.
10. RETURN AND SUPPLY DUCTWORK UP TO RTU. PROVIDE TRANSITIONS TO UNIT INLET.
11. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
12. EXHAUST DUCT UP TO RELIEF HOOD ON ROOF. TRANSITION TO UNIT INLET.
13. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
14. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.

1 3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103E

0"
1"

3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY

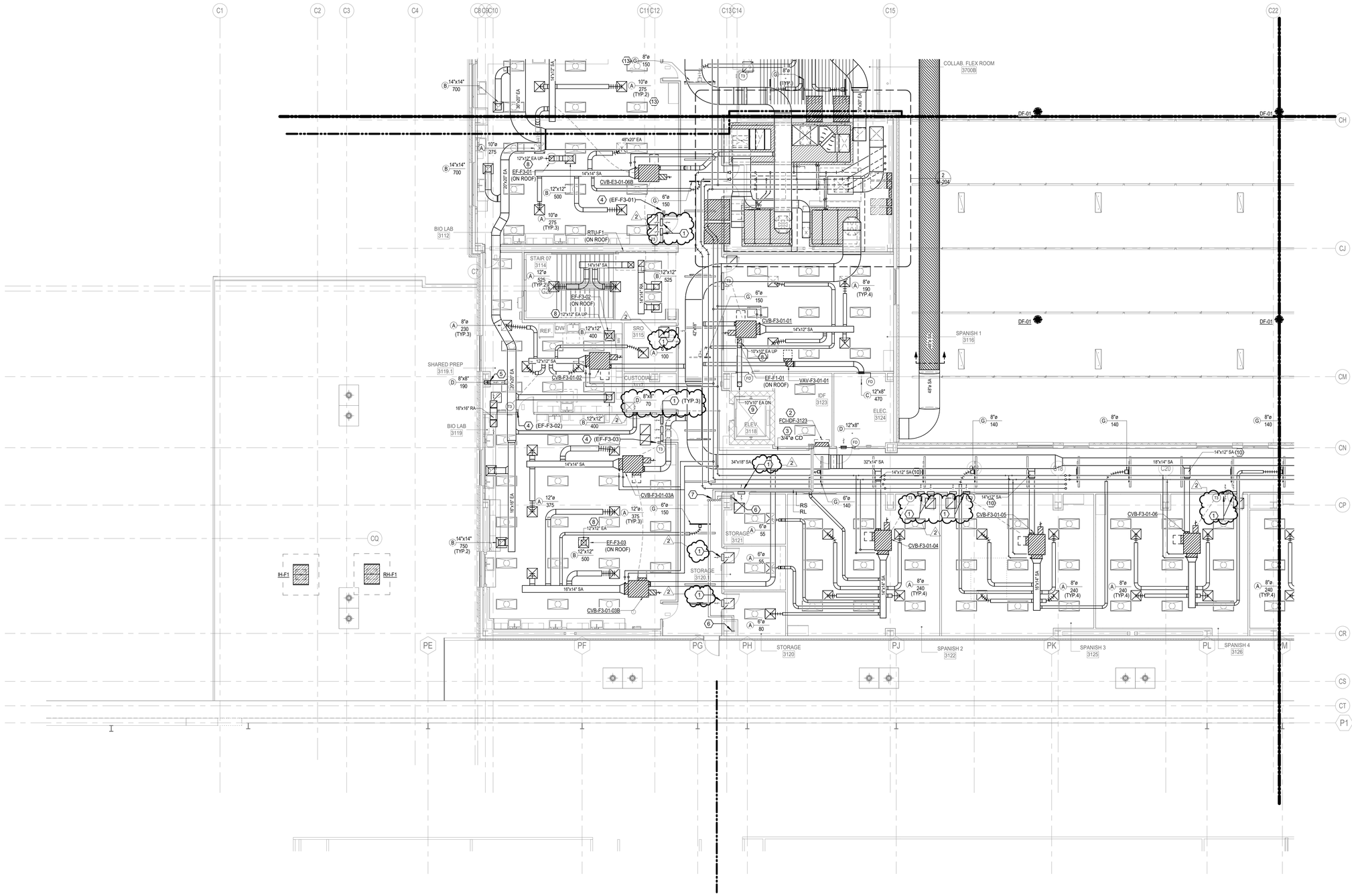
FLOOR PLAN

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.
6. REFRIGERANT PIPING ROUTING FROM LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
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. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
9. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-102F FOR CONTINUATION.
10. AFTER RECTANGULAR CVB TAP, TRANSITION SUPPLY AIR DUCTWORK AS SHOWN ON DETAIL 04/601.



1 3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

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DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103F

3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY

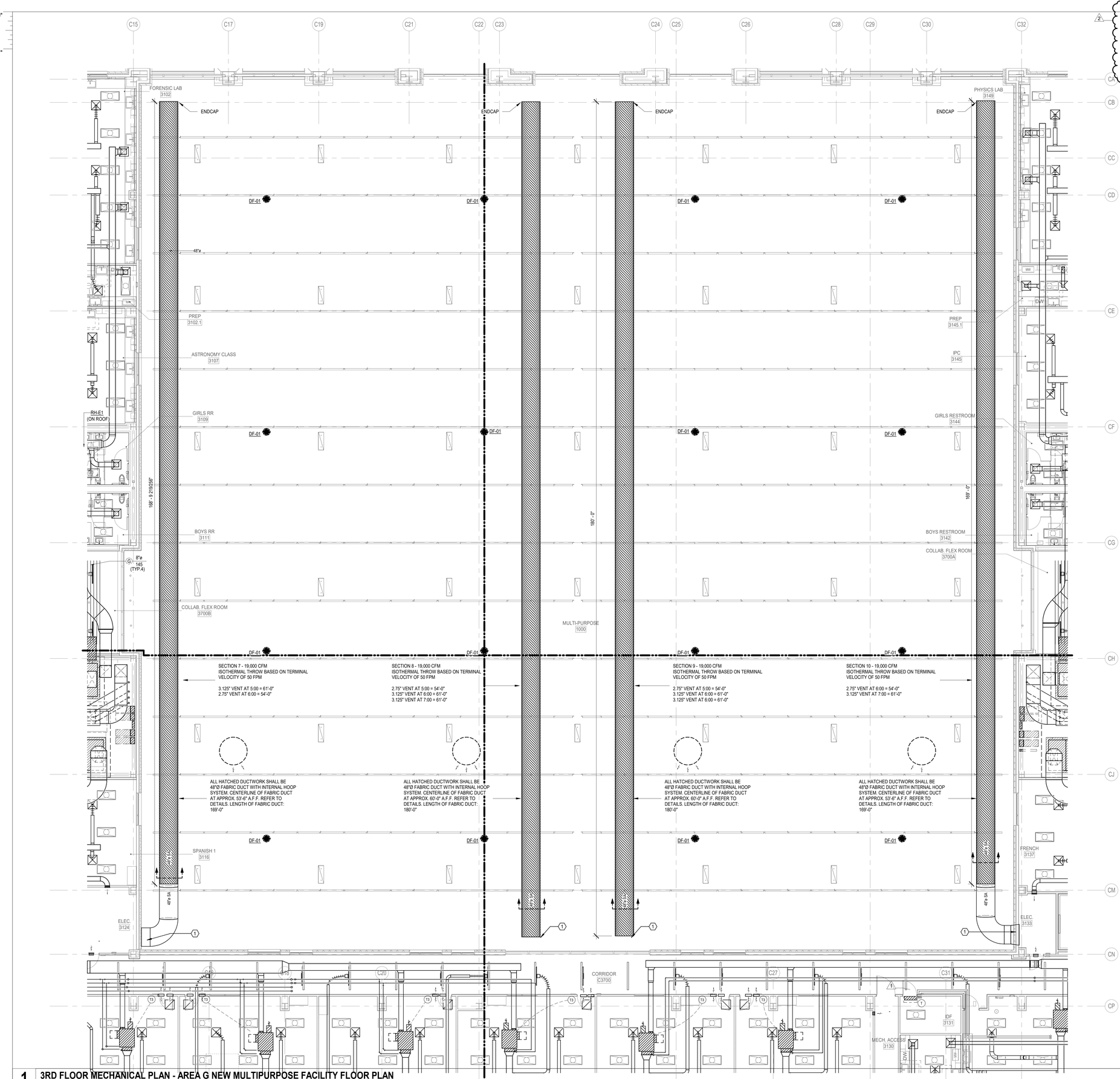
FLOOR PLAN

M-103G

FOR BLUEBEAM LABELING/DOOR:

MECHANICAL KEYED NOTES:

1. FOR DUCTWORK CONTINUATION, SEE M-205.



1 **3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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G

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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CLIENT
GALENA PARK ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

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No.	Description	Date
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2	ADD 03	2025/12/19

CHECKED BY: MP

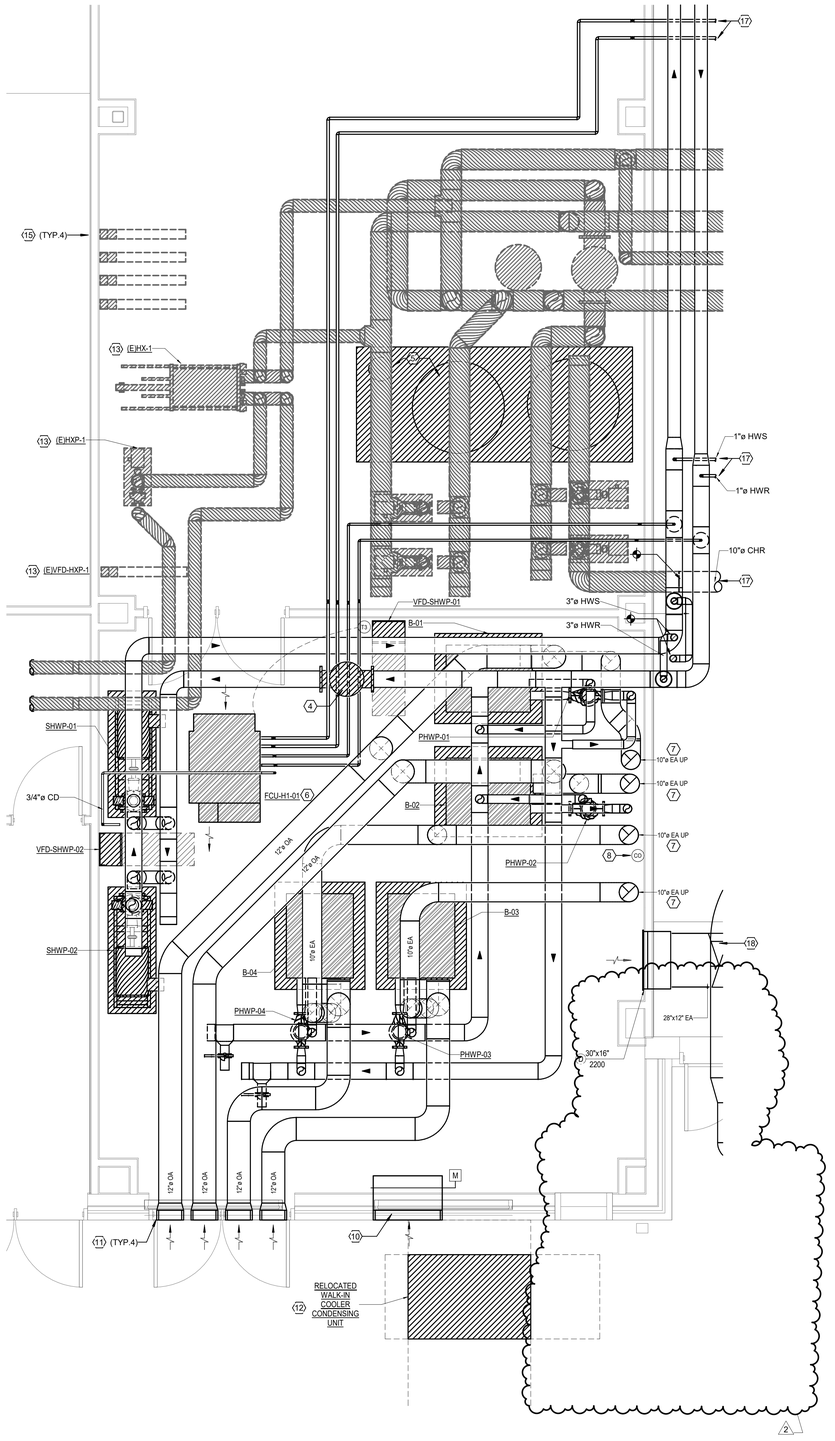
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3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

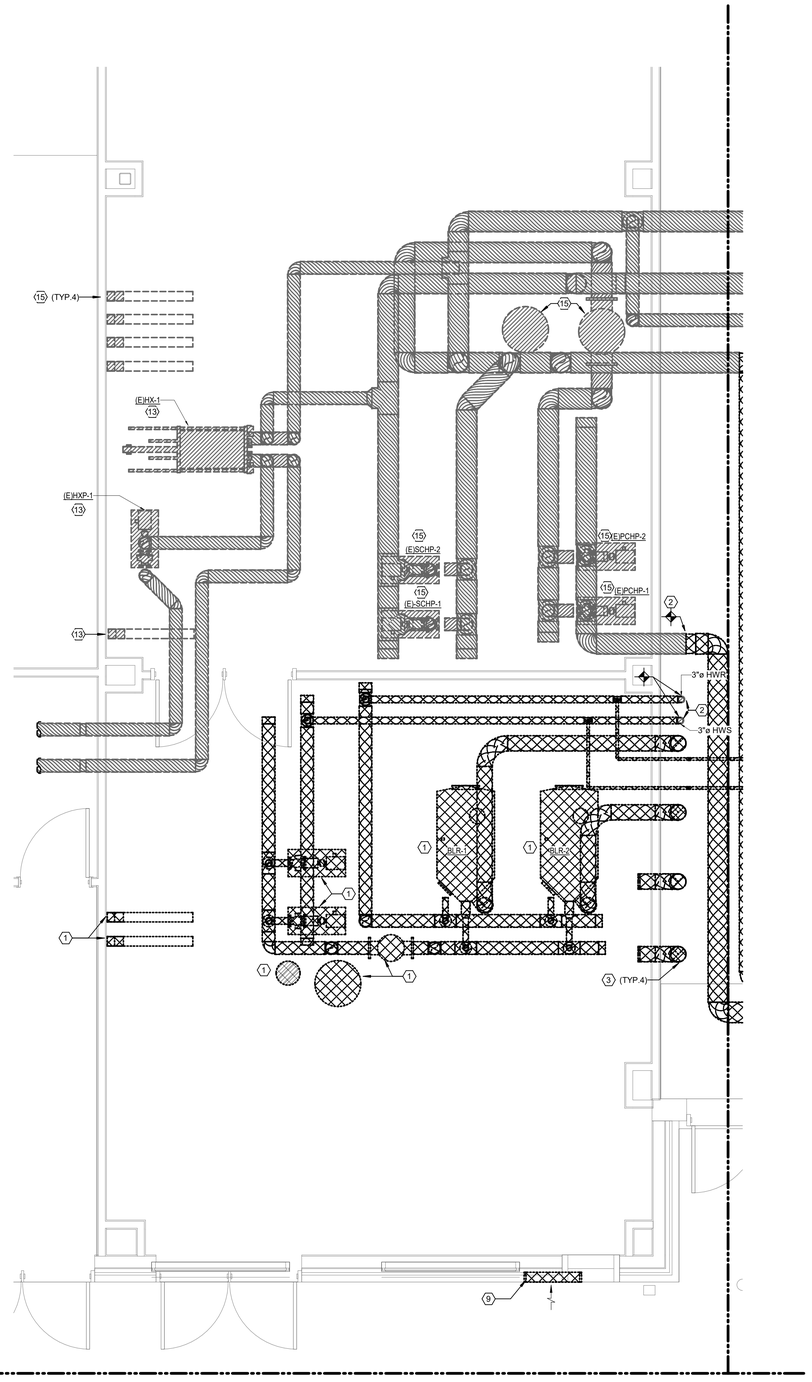
M-103G

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 GENERAL NOTES:

ALL WORK ON THIS SHEET TO BE COMPLETED IN THE SUMMER OF 2026 PRIOR TO THE ARRIVAL OF PKG 3C CENTRAL PLANT. COORDINATE EXACT TIMING OF WORK WITH OWNER.

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. NOT USED
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. NOT USED
17. FOR PIPING CONTINUATION, SEE M-101HT.
18. FOR DUCTWORK CONTINUATION, SEE M-101HT.

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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

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025

LEAF ENGINEERS
F-19572

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

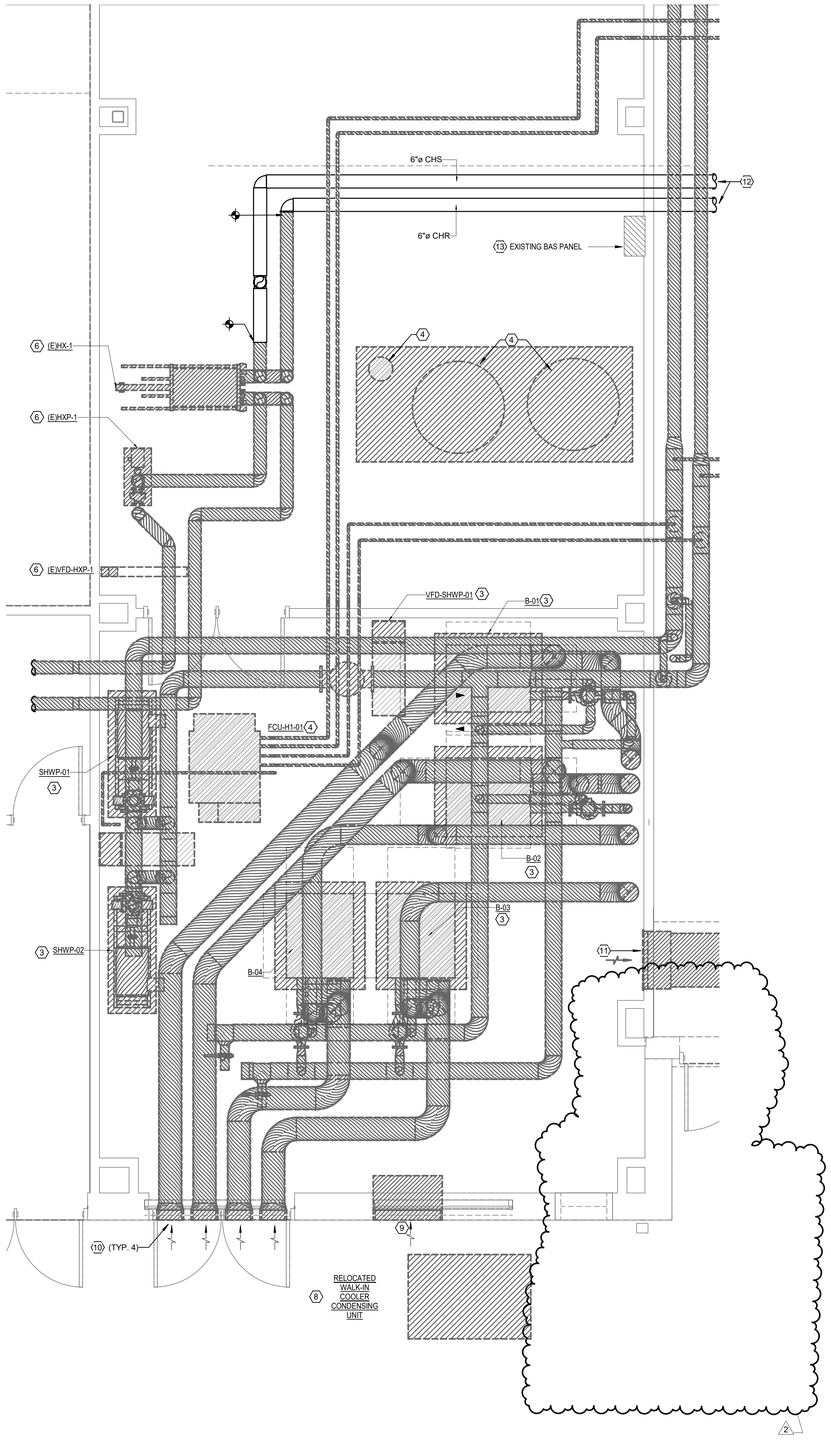
ENLARGED TEMPORARY MECHANICAL PLAN

M-201

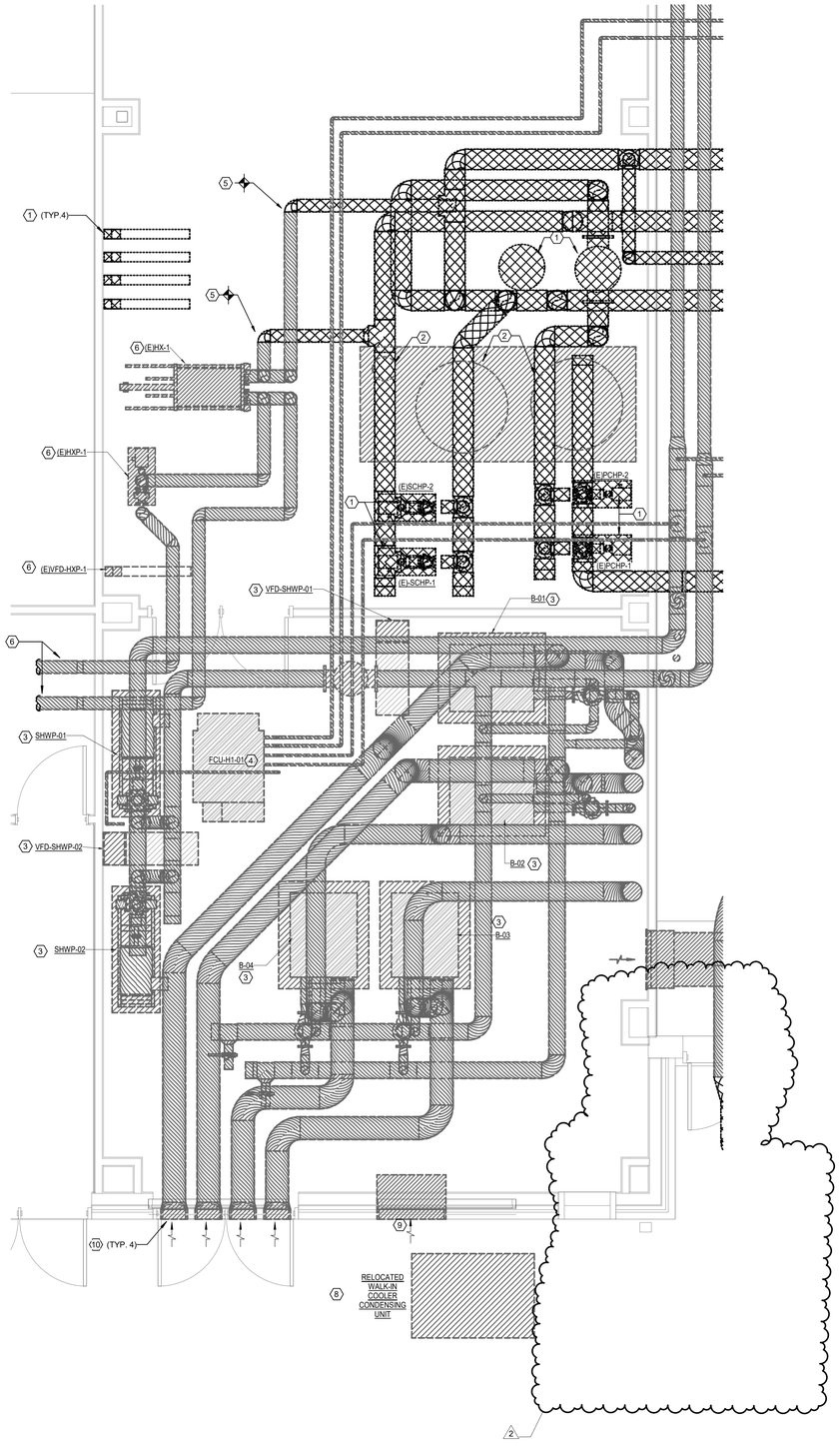
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ENLARGED MECHANICAL PLAN
M-202
FOR BLUEBEAM LABELING/OCR:

0"
1"



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

1000 Keene St.
Galena Park, TX 77547

CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

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
2	ADD 03	2025/12/19

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ENLARGED MECHANICAL PLAN

M-202

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0"
1"

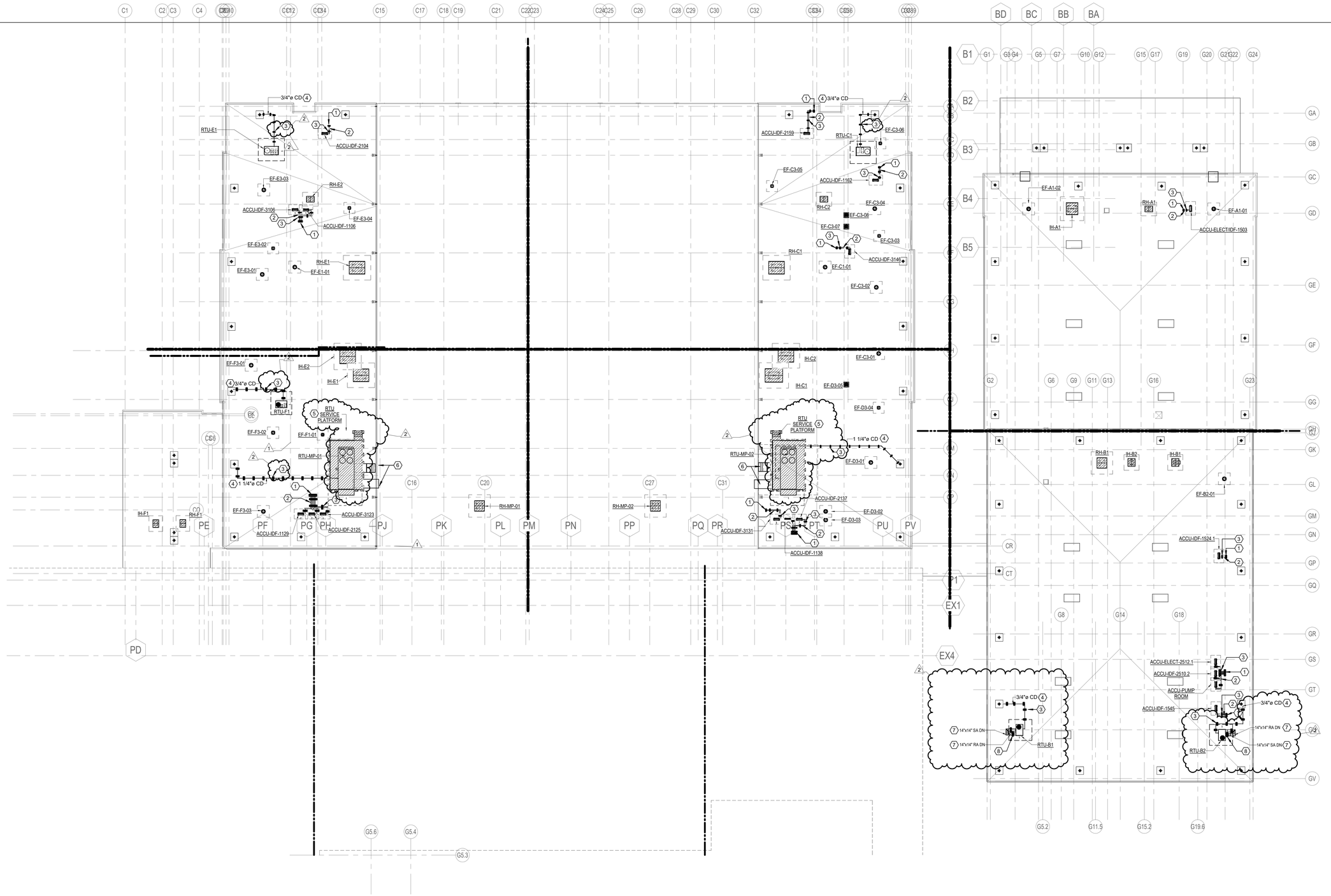
MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

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
7. ROUTE SUPPLY AND RETURN AIR DUCTWORK DOWN THRU ROOF. FOR CONTINUATION, SEE M-103B.
8. PROVIDE PORTABLE DUCT SUPPORTS AT MAX 5' INTERVALS.



1 **MECHANICAL ROOF PLAN**
SCALE: 1" = 20'-0"

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1000 Keene St.
Galena Park, TX 77547

CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

KEY PLAN

NORTH: PLAN TRUE

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LEAF ENGINEERS
F-18672

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DATE	PROJECT NUMBER
December 5, 2025	240539

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CHECKED BY: MP

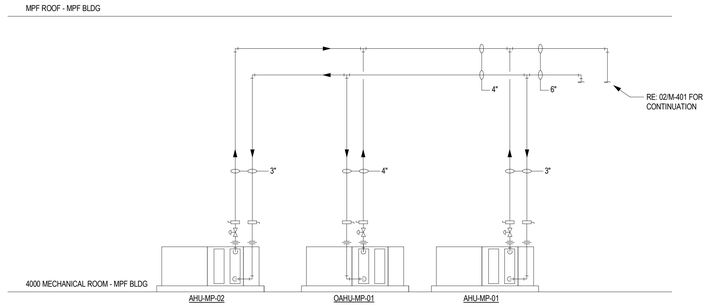
DRAWN BY: CT

MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

M-301

MECHANICAL PIPING DIAGRAM
M-401
FOR BLUEBEAM LABELING/OCR:

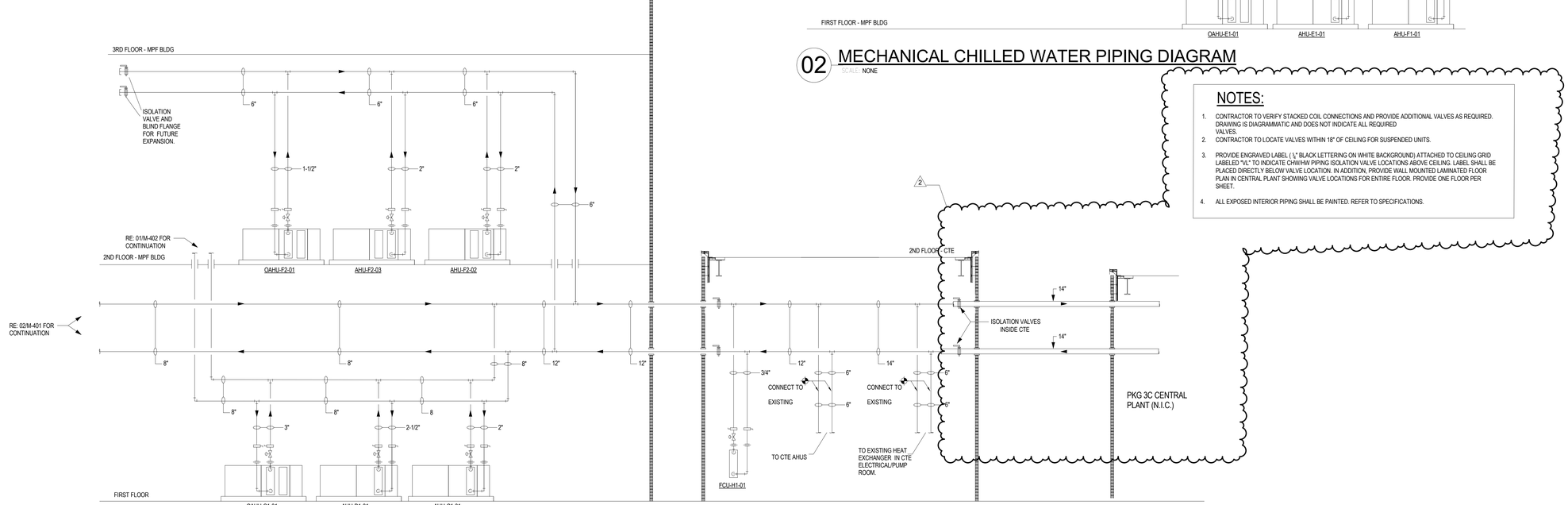
0"
1"



03 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



02 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.
2. CONTRACTOR TO LOCATE VALVES WITHIN 18" OF CEILING FOR SUSPENDED UNITS.
3. PROVIDE ENGRAVED LABEL (⅛" BLACK LETTERING ON WHITE BACKGROUND) ATTACHED TO CEILING GRID LABELED "VL" TO INDICATE CHW/HW PIPING ISOLATION VALVE LOCATIONS ABOVE CEILING. LABEL SHALL BE PLACED DIRECTLY BELOW VALVE LOCATION. IN ADDITION, PROVIDE WALL MOUNTED LAMINATED FLOOR PLAN IN CENTRAL PLANT SHOWING VALVE LOCATIONS FOR ENTIRE FLOOR. PROVIDE ONE FLOOR PER SHEET.
4. ALL EXPOSED INTERIOR PIPING SHALL BE PAINTED. REFER TO SPECIFICATIONS.

01 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE

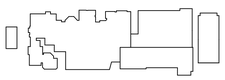
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Galena Park ISD
EXCELLENCE IN ALL FOCAL AREAS



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

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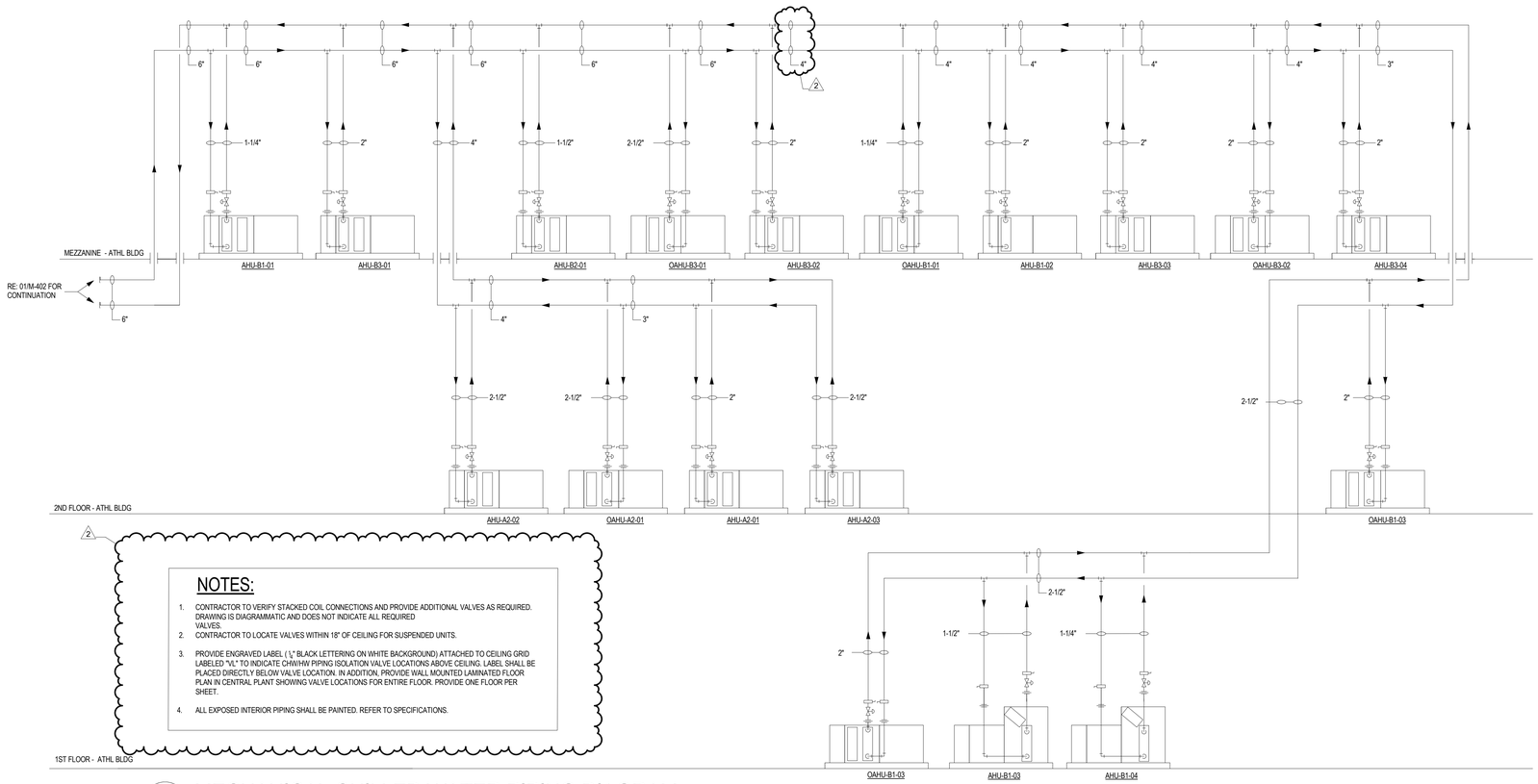
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MECHANICAL PIPING DIAGRAM

M-401

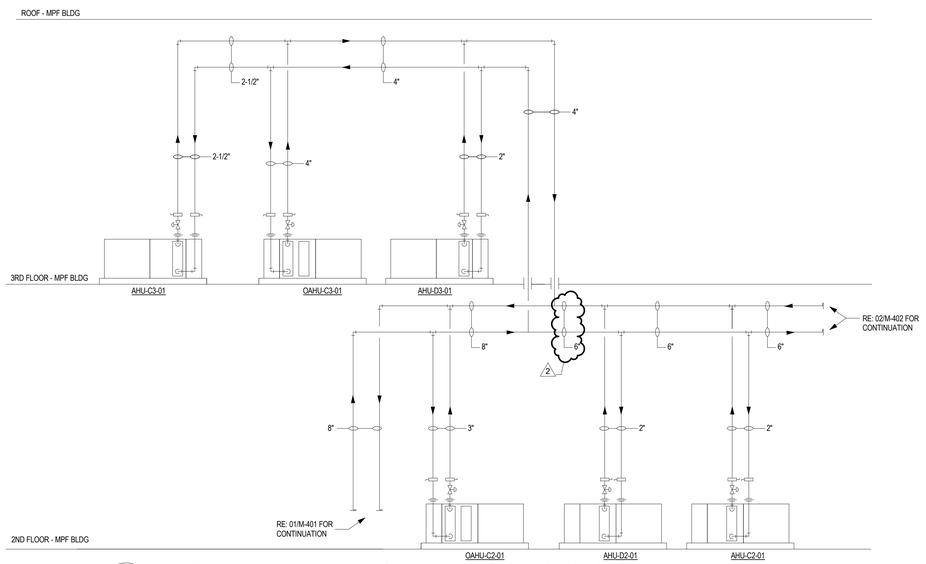
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MECHANICAL PIPING DIAGRAM
M-402
FOR BLUEBEAM LABELING/OCR:

0"
1"



02 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



01 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE

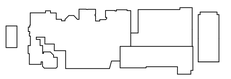
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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FORMS OF LEARNING



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

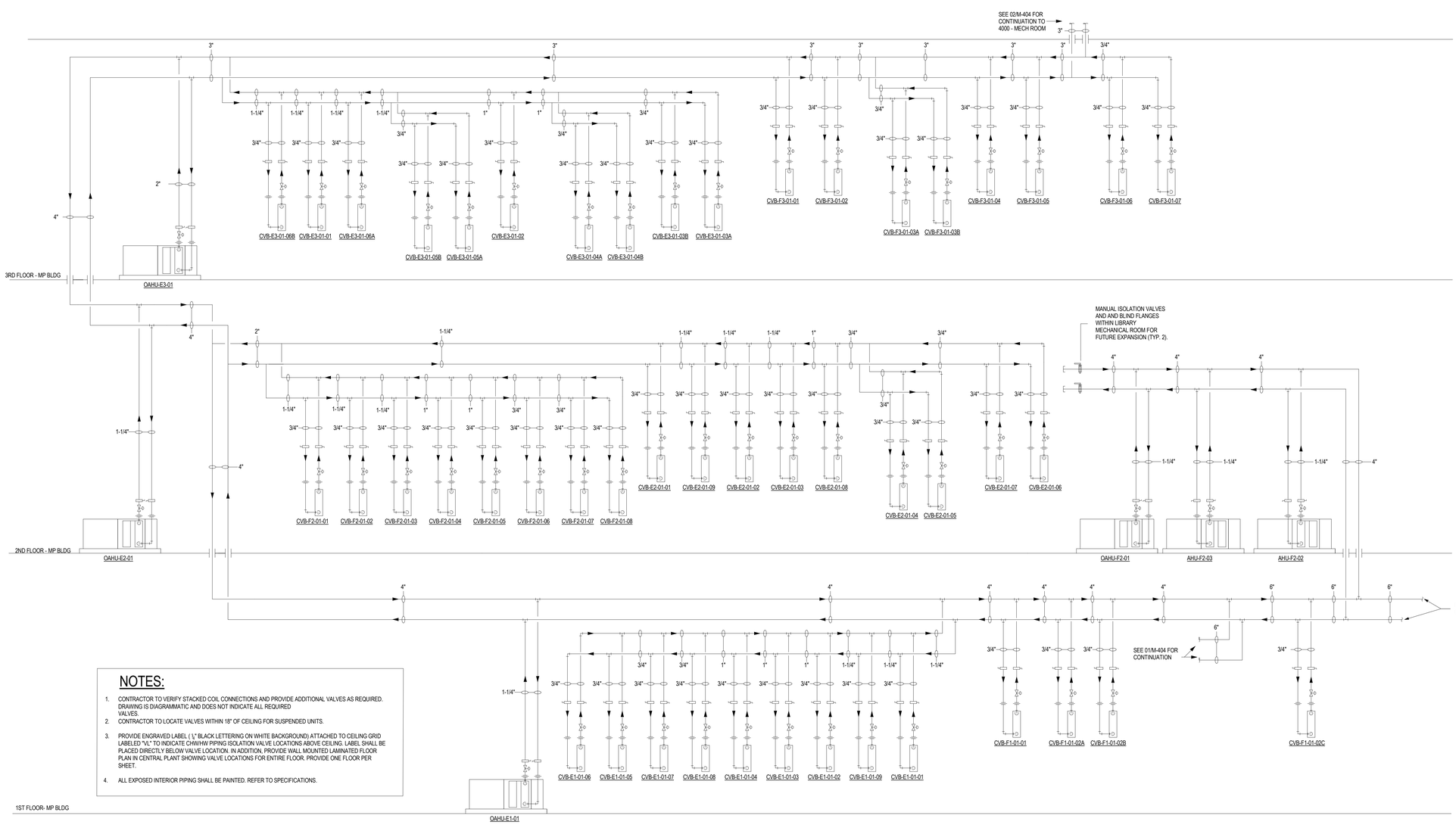
No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

1
MECHANICAL PIPING DIAGRAM

M-402

MECHANICAL PIPING DIAGRAM
M-403
FOR BLUEBEAM LABELING/OCR:

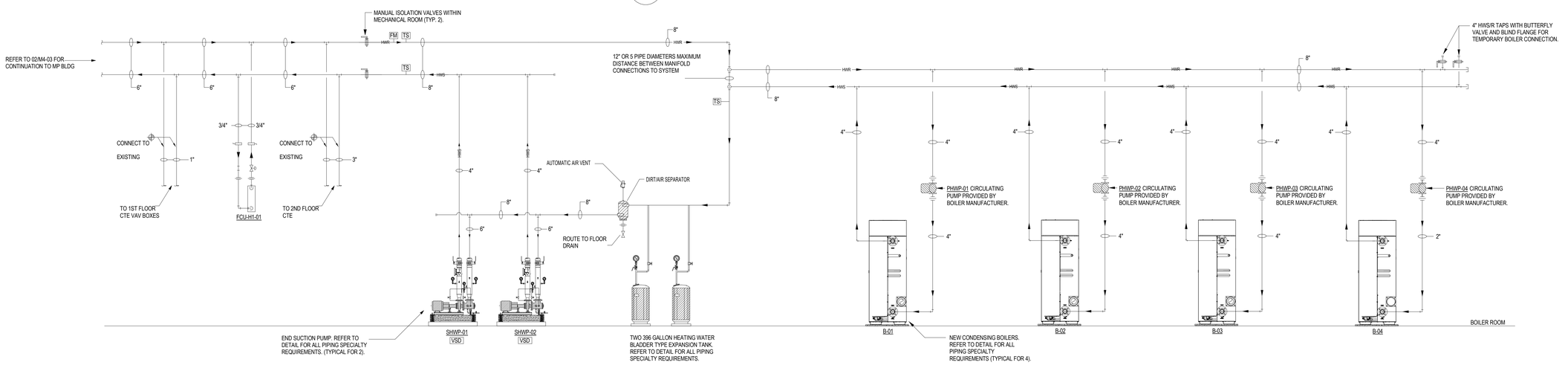


NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.
2. CONTRACTOR TO LOCATE VALVES WITHIN 18" OF CEILING FOR SUSPENDED UNITS.
3. PROVIDE ENGRAVED LABEL (1/ " BLACK LETTERING ON WHITE BACKGROUND) ATTACHED TO CEILING GRID LABELED "VL" TO INDICATE CHW/HW PIPING ISOLATION VALVE LOCATIONS ABOVE CEILING. LABEL SHALL BE PLACED DIRECTLY BELOW VALVE LOCATION. IN ADDITION, PROVIDE WALL MOUNTED LAMINATED FLOOR PLAN IN CENTRAL PLANT SHOWING VALVE LOCATIONS FOR ENTIRE FLOOR. PROVIDE ONE FLOOR PER SHEET.
4. ALL EXPOSED INTERIOR PIPING SHALL BE PAINTED. REFER TO SPECIFICATIONS.

02 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE



01 MECHANICAL HEATING WATER CENTRAL PLANT PIPING DIAGRAM

SCALE: NONE

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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-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

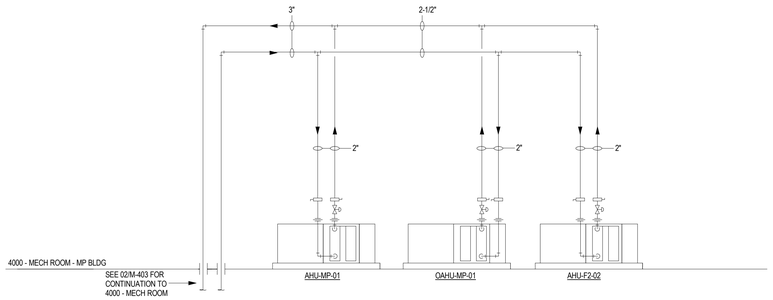
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MECHANICAL PIPING DIAGRAM

M-403

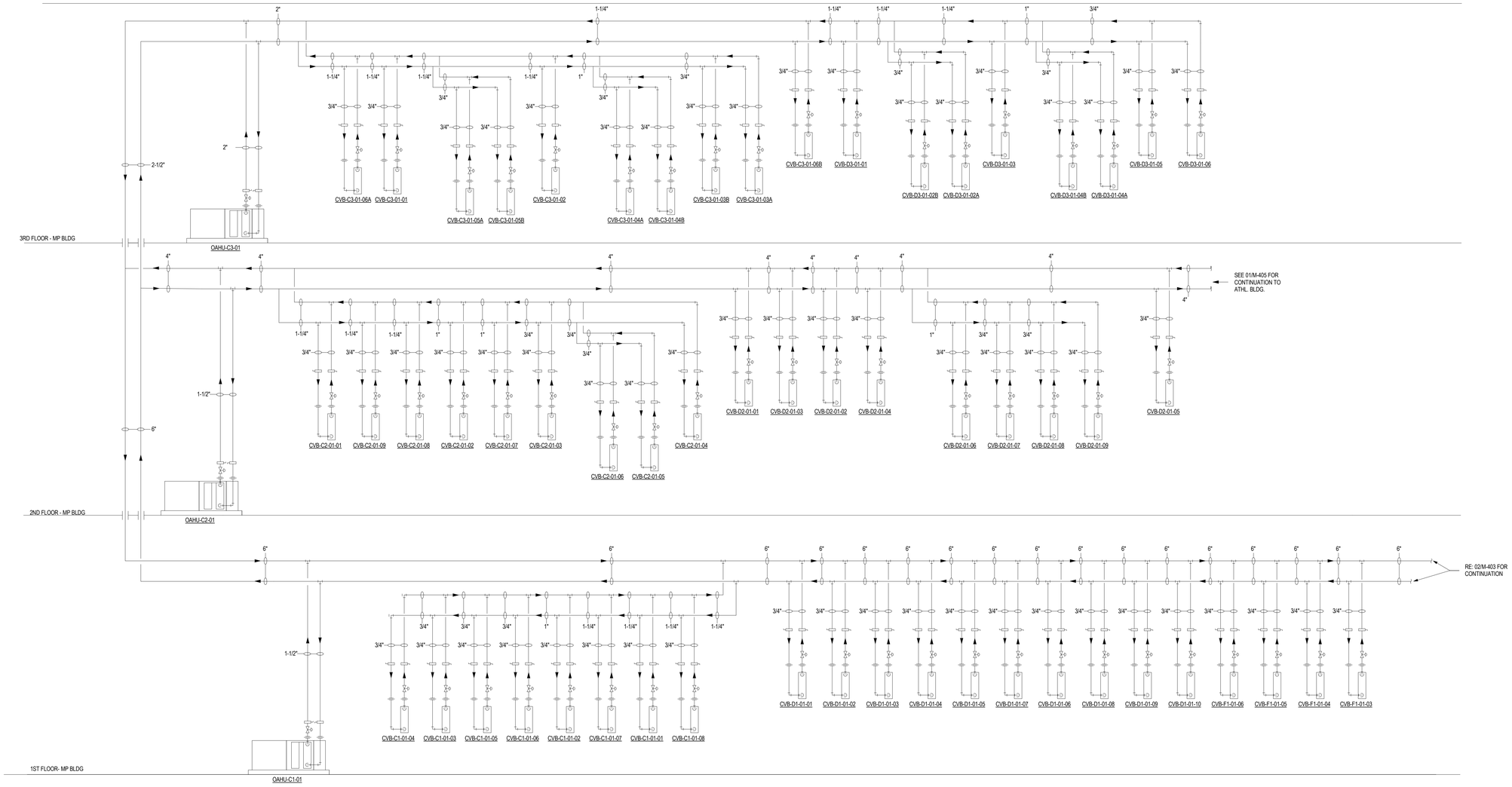
MECHANICAL PIPING DIAGRAM
M-404
FOR BLUEBEAM LABELING/OCR:



02 MECHANICAL HEATING WATER PIPING DIAGRAM
SCALE: NONE

NOTES:

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SCALE: NONE

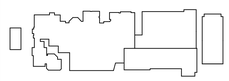
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LICENSED PROFESSIONAL ENGINEER
December 5, 2025
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F-16672

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DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

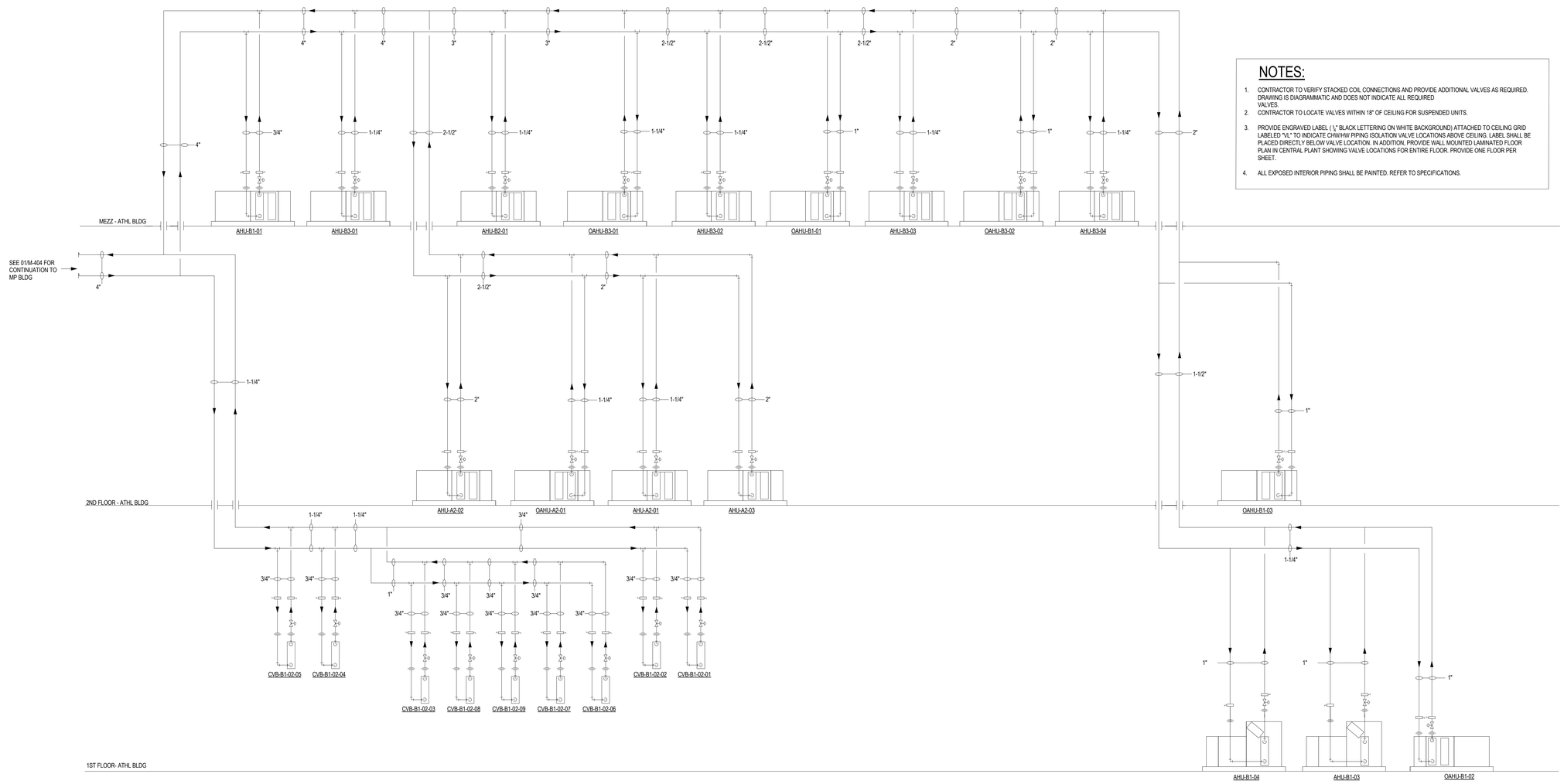
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MECHANICAL PIPING DIAGRAM

M-404

Plot Stamp:
12/18/2025 6:22:47 PM

0"
1"



NOTES:

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01 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE

MECHANICAL PIPING DIAGRAM
M-405
FOR BLUEBEAM LABELING/OCR:

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

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2

MECHANICAL PIPING DIAGRAM
M-405

Plot Stamp:
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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 NUMBER	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 H.P.	FLA	VOLT / Ø / HZ
B-01	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVENGER	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	AVENGER	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	AVENGER	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	AVENGER	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	8,880	3,500	1,050	1.2	5.60	2 @ 3 hp	7 1/2		DIRECT DRIVE - PF	460 / 3 / 60	8,880	500	220,579	288,209	78°F	65°F	55°F	36	42°F	58°F	-	-	-	-	-	-	-	-
AHU-C1-02	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 84 x 61	3,400	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	126 x 81 x 61	3,900	1-12	9,575	2,900	1,200	1.2	6.40	2 @ 5 hp	10		DIRECT DRIVE - PF	460 / 3 / 60	9,575	500	237,843	310,766	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	8,715	2,900	1,000	1.2	6.10	2 @ 5 hp	10		DIRECT DRIVE - PF	460 / 3 / 60	8,715	500	216,481	282,854	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-	-	-
AHU-E2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	129 x 84 x 61	4,000	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-F2-01	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-F3-01	3rd 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	10,510	6,940	6,940	1.2	7.40	2 @ 5 hp	10		DIRECT DRIVE - PF	460 / 3 / 60	10,510	500	261,068	341,113	78°F	65°F	55°F	43	42°F	58°F	-	-	-	-	-	-	-	-
AHU-E3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	129 x 84 x 61	4,000	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-F3-01	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.

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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
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

M-501

MECHANICAL SCHEDULES
M-502
FOR BLUEBEAM LABELING/OCR:

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.

2

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								GAS HEATING DATA						ELECTRICAL		
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	TOTAL BHP	FAN QUANTITY /...	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND...	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	FUEL	INPUT BTUH (MAX.)	OUTPUT BTUH (MIN.)	MIN. STAGE...	EAT (°F DB)	LAT (°F DB)	VOL...	MCA	MOCP
RTU-MP-01	MULTI-PURPOSE	SZ VAV	VALENT	VX	1-22	250"L x 98"W x 124"H	9.6 / 12.3	9,700 lbs.	19,000	3,700	1.2"	14.40	4 / 5 HP	DIRECT DRIVE - PF	19,000	500	561,700	841,800	81.5°	67.9°	53.2°	NATURAL GAS	800,000	648,000	MODULATIN...	56.2°	87.7°	460 /...	199	225
RTU-MP-02	MULTI-PURPOSE	SZ VAV	VALENT	VX	1-22	250"L x 98"W x 124"H	9.6 / 12.3	9,700 lbs.	19,000	3,700	1.2"	14.40	4 / 5 HP	DIRECT DRIVE - PF	19,000	500	561,700	841,800	81.5°	67.9°	53.2°	NATURAL GAS	800,000	648,000	MODULATIN...	56.2°	87.7°	460 /...	199	225

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. 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.
6. PROVIDE UNIT WITH MODULATING HOT GAS RE-HEAT COIL FOR ACTIVE HUMIDITY CONTROL.
7. 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.
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. PROVIDE WITH PLEATED MERV 13 FILTERS.
13. DRAIN PAN SHALL BE STAINLESS STEEL WITH CONDENSATE OVERFLOW SWITCH WITH SENSING DEVICE AND WIRE TO SHUT-DOWN UNIT UPON WATER DETECTION IN PAN.
14. UNIT SHALL BE THERMALLY BROKEN DOUBLE WALL CASING WITH R-VALUE.
15. ALL CONDENSER FANS SHALL BE VARIABLE-SPEED CONTROL.
16. EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL MEET OR EXCEED THE SCHEDULED EFFICIENCY VALUES.
17. PROVIDE LOW AMBIENT CONTROL DOWN TO 0°F.
18. PROVIDE UNIT WITH INTEGRATED ECONOMIZER CYCLE CONTROL, MINIMUM COOLING STAGING REQUIREMENTS PER 2015 IECCC TABLE C403.3.1: (≥65,00 BTUH AND <240,000 BTUH - 3 STAGES OF COOLING; ≥240,000 BTUH - 4 STAGES OF COOLING).
19. UNIT SHALL BE PROVIDED WITH HYBRID COOLING CONTROL PACKAGE AND TERMINAL STRIP FOR THIRD PARTY CONTROL; REFER TO 23 74 13, 2.9 CONTROLS AND 23 09 93 SEQUENCES OF OPERATIONS FOR FURTHER REQUIREMENTS.
20. UNIT SHALL BE ROOF MOUNTED. PROVIDE NEW INSULATED 48" TALL CUSTOM CURB WITH HORIZONTAL SUPPLY AND RETURN OPENINGS; REFER TO PLANS AND SPECIFICATION FOR FURTHER REQUIREMENTS.
21. PROVIDE NEW DUCT SMOKE DETECTOR AS REQUIRED BY CODE.
22. IF DIFFERENT MANUFACTURER IS SELECTED FROM BASIS OF DESIGN, RTU MANUFACTERER TO COORDINATE WITH CURB MANUFACTURER, SERVICE PLATFORM MANUFACTURER, STRUCTURAL, AND STEEL MANUFACTURER FOR DESIGN OF RTU SERVICE PLATFORM AND ANCHORING TO STRUCTURE TO MEET THE WIND REQUIREMENTS OF 155 MPH RATING, THREE SECOND GUST

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.)	BHP / HP	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-C1	AREA 'C' STAIRWELL	SZ VAV	TRANE	YHK	1-19	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	1-19	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	1-19	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	1-19	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	1-19	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 120v/15 AMP, 2 PLUG, UNPOWERED CONVENIENCE OUTLET. ELECTRICAL TO PROVIDE SEPARATE POWER FEED TO THE OUTLET.
8. REFRIGERANT SHALL BE R-454B.
9. PROVIDE HAIL GUARDS.
10. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND FACTORY MOUNTED DISCONNECT SWITCH.
11. PROVIDE WITH MERV 13 FILTERS.
12. PROVIDE DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH; WIRE TO SHUT-DOWN UNIT UPON WATER DETECTION IN PAN.
13. EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL MEET OR EXCEED THE SCHEDULED EFFICIENCY VALUES.
14. PROVIDE LOW AMBIENT CONTROL DOWN TO 0°F.
15. 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.
16. ROOFTOP UNIT AND ROOF CURB SHALL BE COMPLETELY LEVEL AND ROOF CURB TO MATCH ROOF SLOPE.
17. PROVIDE FACTORY MOUNTED REFRIGERANT LEAK DETECTION SYSTEM.
18. MANUFACTURER TO PROVIDE UVC LIGHT DOWNSTREAM OF COOLING COIL. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.
19. 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.

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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

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITUL 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
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

M-502

MECHANICAL SCHEDULES
M-503

FOR BLUEBEAM LABELING/OCR:

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	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	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	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-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	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	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	1,205	362	1	0.3	1205	750	27,199	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	1,205	362	1	0.3	1205	750	27,199	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	1,135	338	1	0.3	1135	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-02	12	1,320	396	1	0.3	1320	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	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-02	12	1,345	404	1	0.3	1345	750	30,356	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. ΔP (" 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
ST-07	RETURN	VIBRO-ACOUSTICS	RD	-	24"x18"	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 MOU

ELECTRICAL SITE PLAN
ES-101
FOR BLUEBEAM LABELING/OCR:

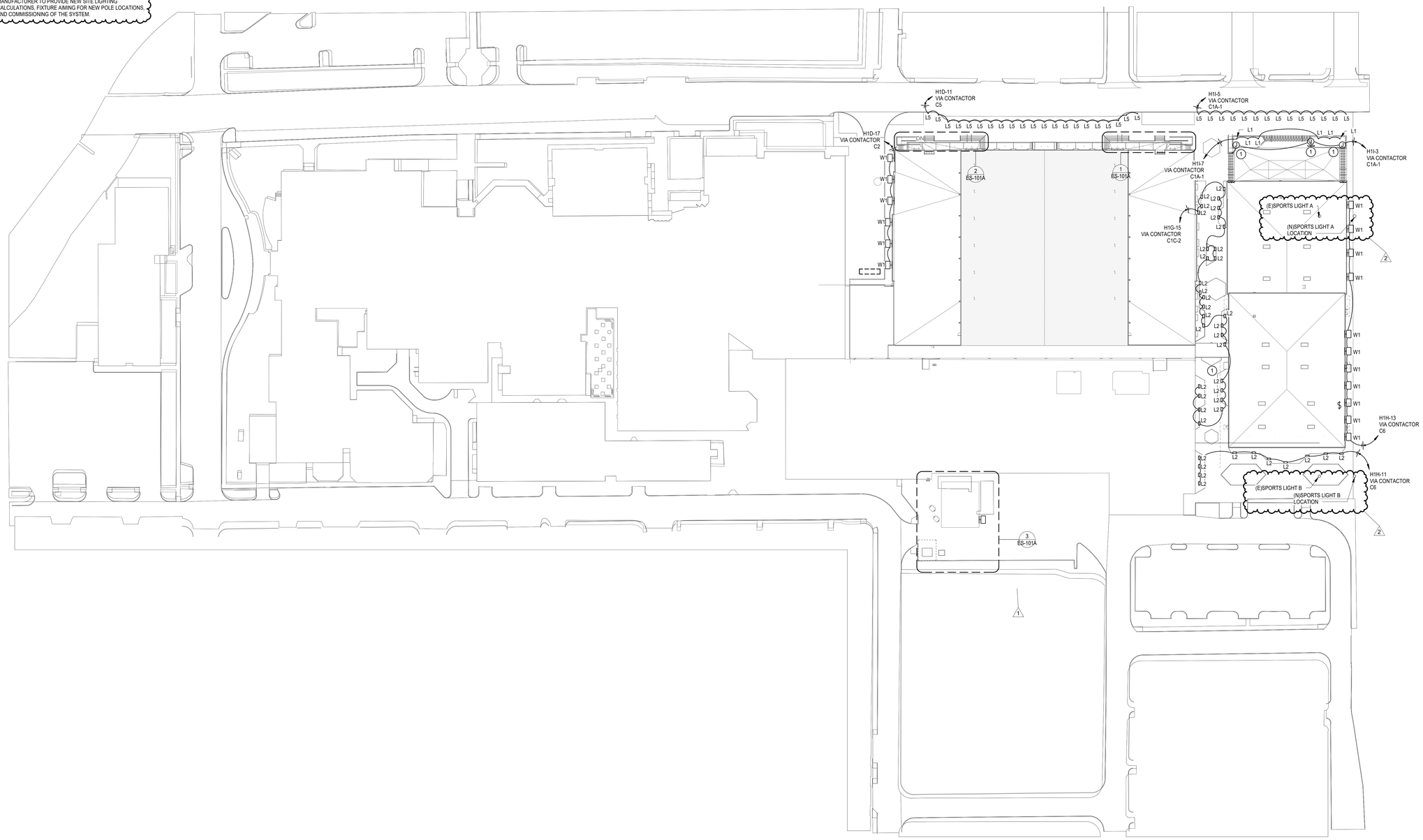
0"
1"

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.
4. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5. 2

SITE PLAN KEYED NOTES:

1. REMOTE EXTERIOR NEMA 3R DRIVER LOCATED IN RAISED PLANTER TO PROVIDE POWER TO STAIR NOSE LIGHTING L4. CONTRACTOR SHALL COORDINATE CONDUIT PATHWAYS AND CONNECTIONS WITH ALL RELEVANT PARTIES FOR INSTALLATION IN CONCRETE STAIRS. 2
2. STUB UP CONDUIT AND CABLES FOR FUTURE CONNECTION TO CENTRAL PLANT AND MAKE SAFE. FIELD VERIFY FINAL LOCATION WITH PACKAGED CENTRAL PLANT REQUIREMENTS.
3. EXISTING SPORTS LIGHT POLE TO BE DEMOLISHED AND LIGHTS AND CONTROLS BOXES TO BE RELOCATED TO NEW SPORTS LIGHT POLE. EXISTING CIRCUITS SHALL BE INTERCEPTED OUTSIDE OF AFFECTED CONSTRUCTION AREA. PROVIDE HANDHOLE AND EXTEND CIRCUIT AS REQUIRED TO NEW POLE LOCATION. CONTRACTOR SHALL COORDINATE WITH SPORTS LIGHTING MANUFACTURER FOR INSTALLATION REQUIREMENTS. CONTRACTOR SHALL RETAIN THE MANUFACTURER TO PROVIDE NEW SITE LIGHTING CALCULATIONS, FIXTURE AIMING FOR NEW POLE LOCATIONS, AND COMMISSIONING OF THE SYSTEM. 2



1 ELECTRICAL SITE PLAN
SCALE: 1" = 50'-0"

Plot Stamp:
12/18/2025 5:03:16 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 FACETS OF LIFE

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
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

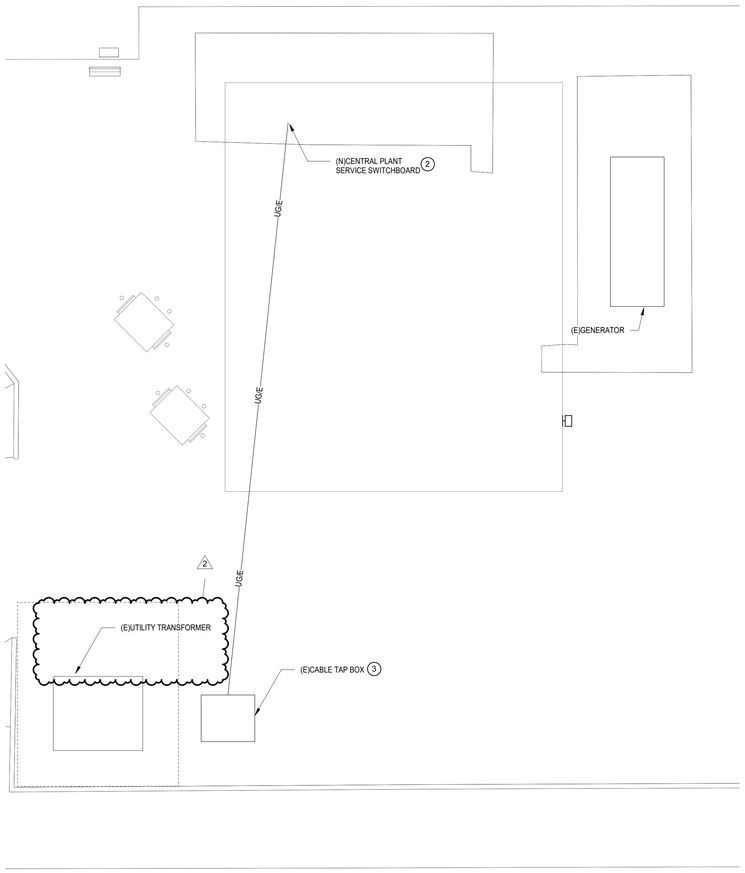
ELECTRICAL SITE PLAN

ES-101

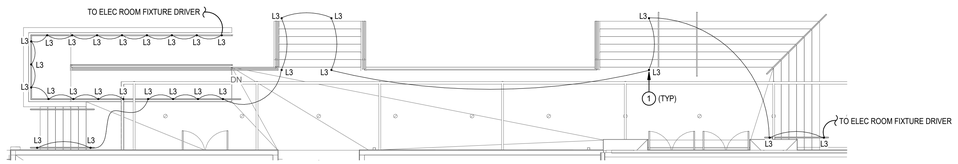
ELECTRICAL SITE PLAN - ENLARGED VIEWS
ES-101A

FOR BLUEBEAM LABELING/OCR:

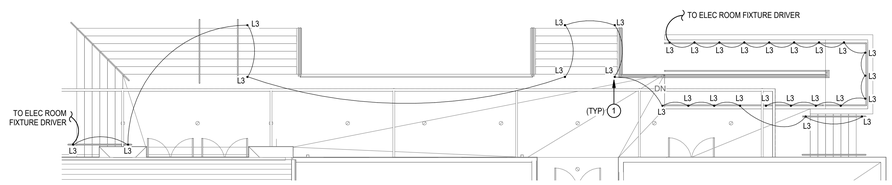
0"
1"



3 ELECTRICAL SITE PLAN - Callout 3
SCALE: 1/8" = 1'-0"



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 BYPPASS 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.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

2

LIGHTING PLAN KEYED NOTES

1. PUCK LIGHT INSTALLED IN BOTTOM OF HANDRAIL. CONTRACTOR SHALL COORDINATE WITH SUPPLIER OF HANDRAIL FOR ALL INSTALLATION REQUIREMENTS.
2. STUB UP CONDUIT AND CABLES FOR FUTURE CONNECTION TO CENTRAL PLANT AND MAKE SAFE. FIELD VERIFY FINAL LOCATION WITH PACKAGED CENTRAL PLANT CONTRACTOR DERRYBERRY'S MECHANICAL, POC DARYL MARTIN daryl.martin@derryberrys.com. WORK TO OCCUR SUMMER 2026.
3. EXISTING CABLE TAP BOX TO BE REPLACED, SEE ELECTRICAL RISER DIAGRAM E-502. WORK TO OCCUR SUMMER 2026.

1

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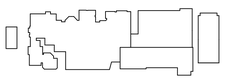
LEAF ENGINEERS

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
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL SITE PLAN - ENLARGED VIEWS

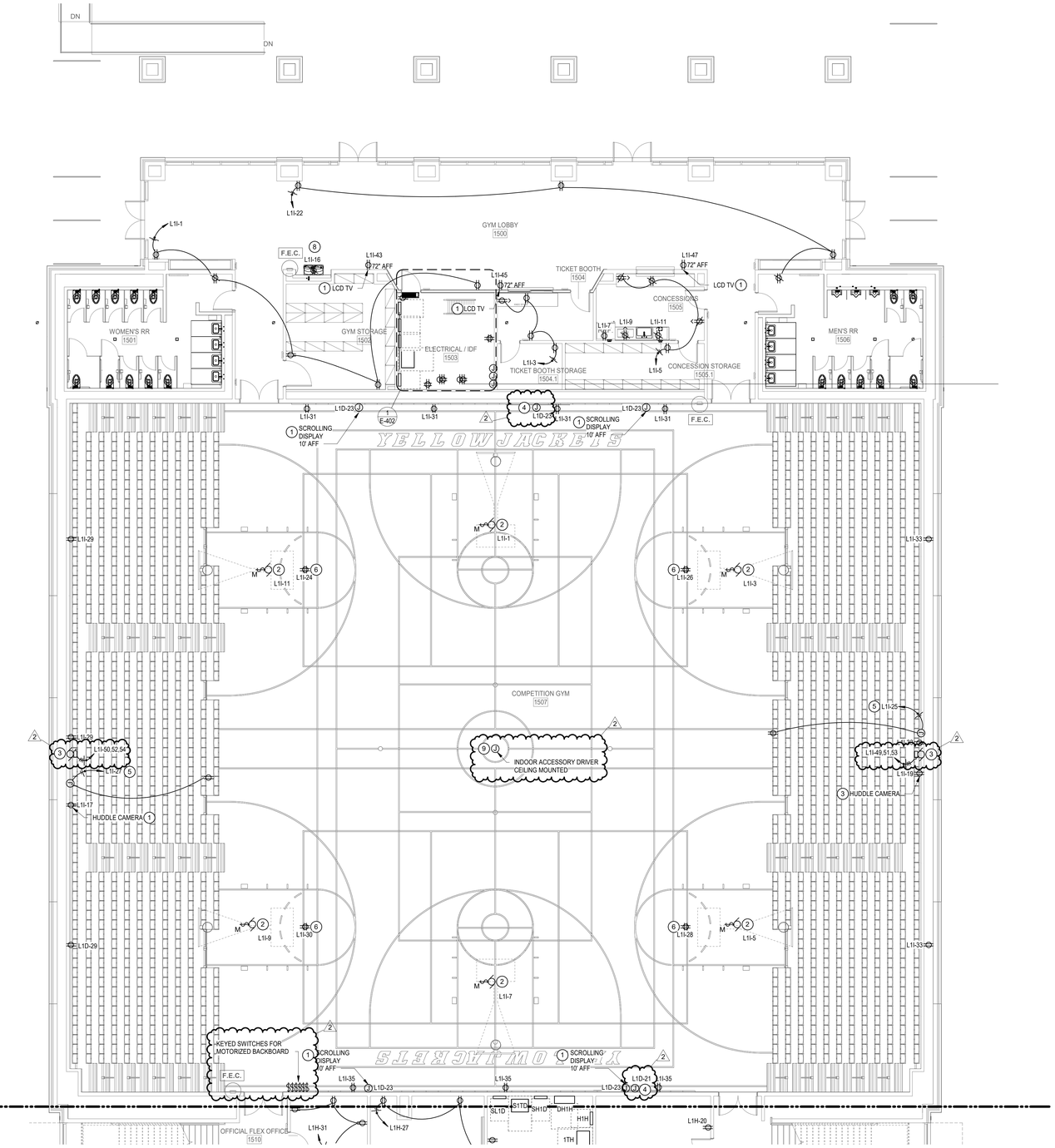
ES-101A

Plot Stamp:
12/18/2025 5:03:18 PM

1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-101A

FOR BLUEBEAM LABELING/OCR:

0"
1"



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.
9. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER 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

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
2	ADD 03	2025/12/19

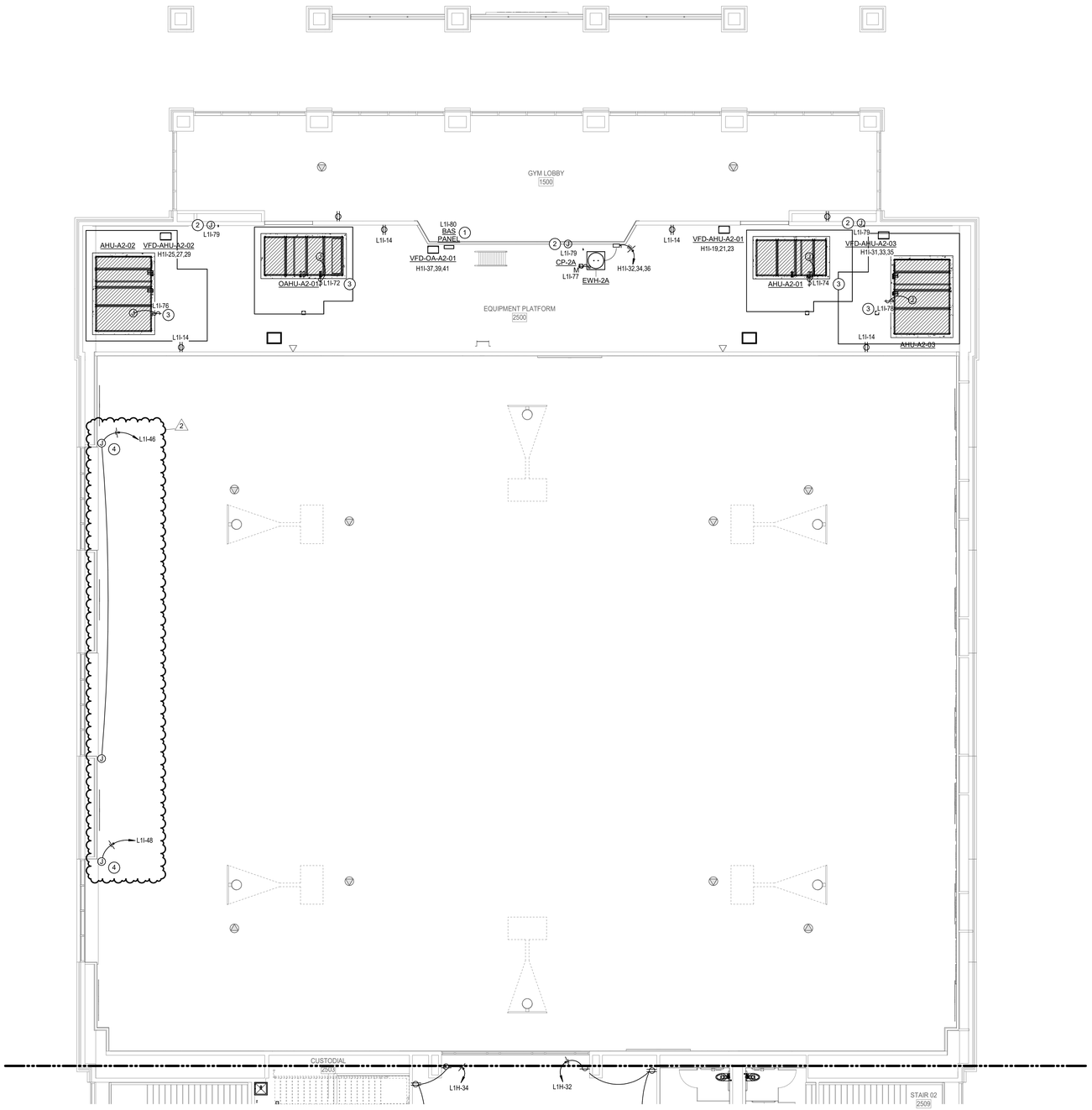
CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN

E-101A

Plot Stamp:
12/18/2025 5:03:28 PM

0"
1"



1 **2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 5:03:32 PM

2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-102A
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. 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.
4. JUNCTION BOX POWER TO MOTORIZED SHADES. REFER TO SHADE MANUFACTURER WIRING DIAGRAM FOR EXACT TERMINATION REQUIREMENTS. REFER TO ARCHITECT FOR LOCATION OF SHADE CONTROLLER

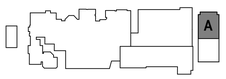
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LEAF ENGINEERS

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
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

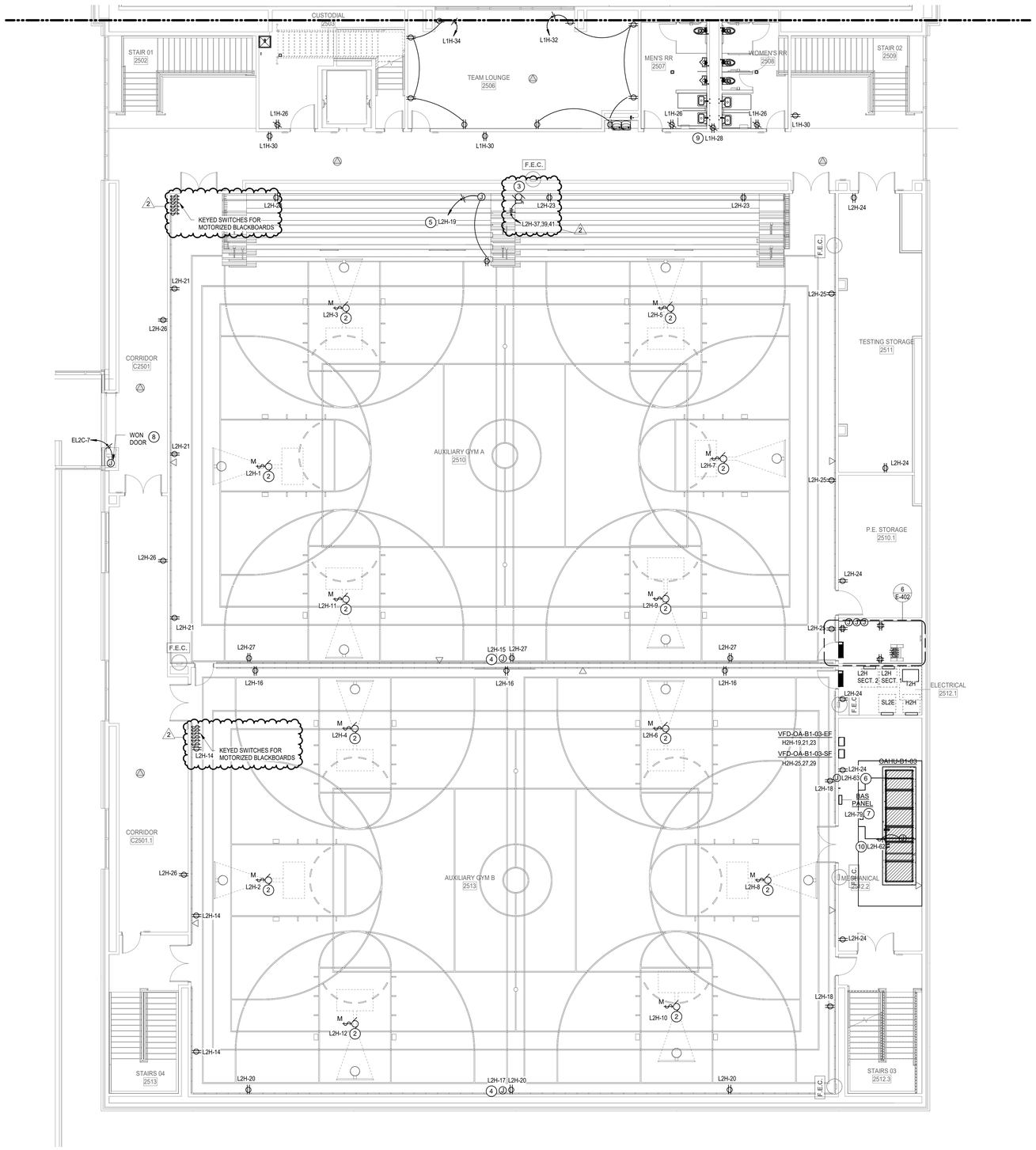
2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN

E-102A

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.
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. 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)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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EXCELLENCE IN EVERY SCHOOL

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
2	ADD 03	2025/12/19

CHECKED BY: OT

DRAWN BY: LT

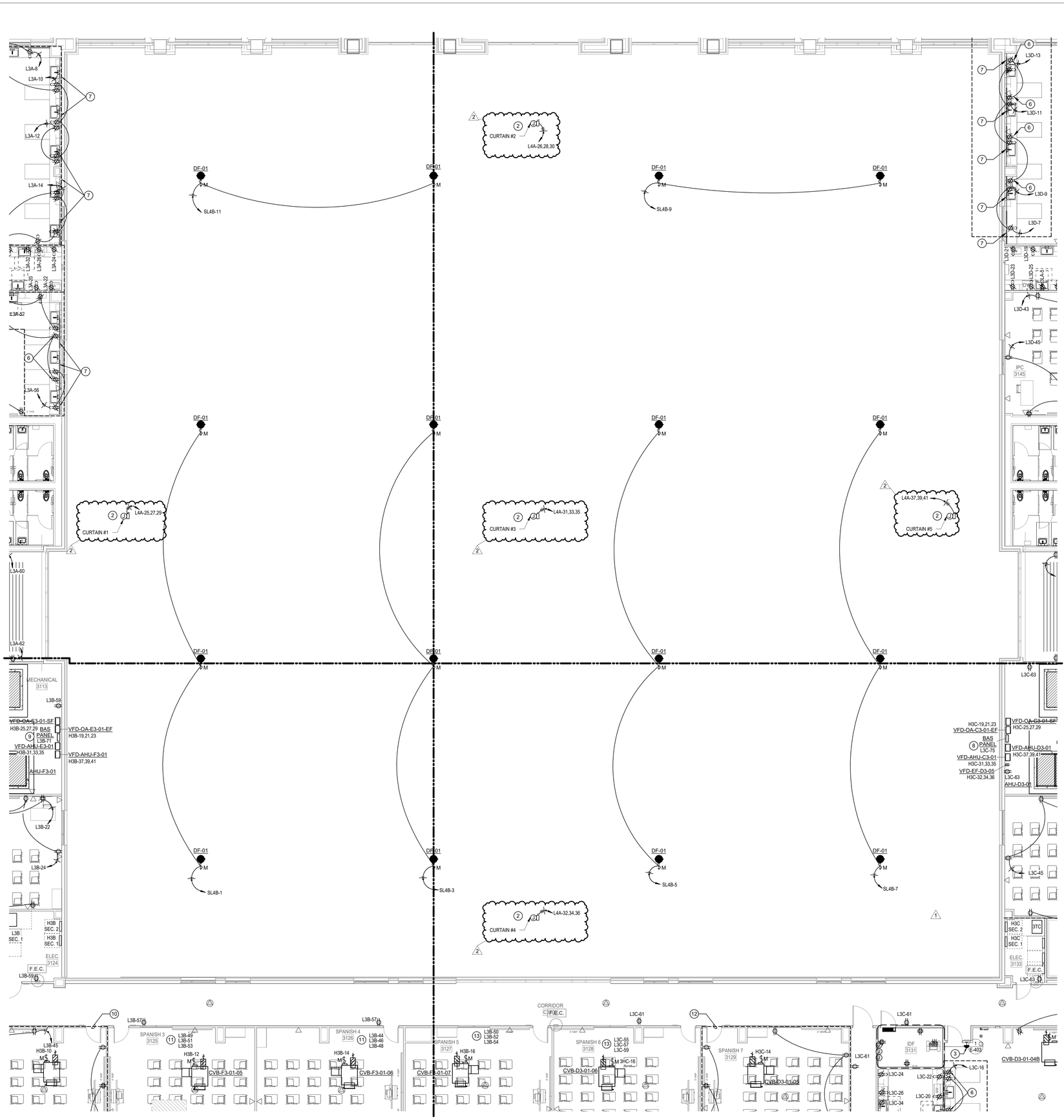
2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

E-102B

Plot Stamp:
12/18/2025 5:03:37 PM

3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103G

FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 5:03:50 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. 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.

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LEAF ENGINEERS

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

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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
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

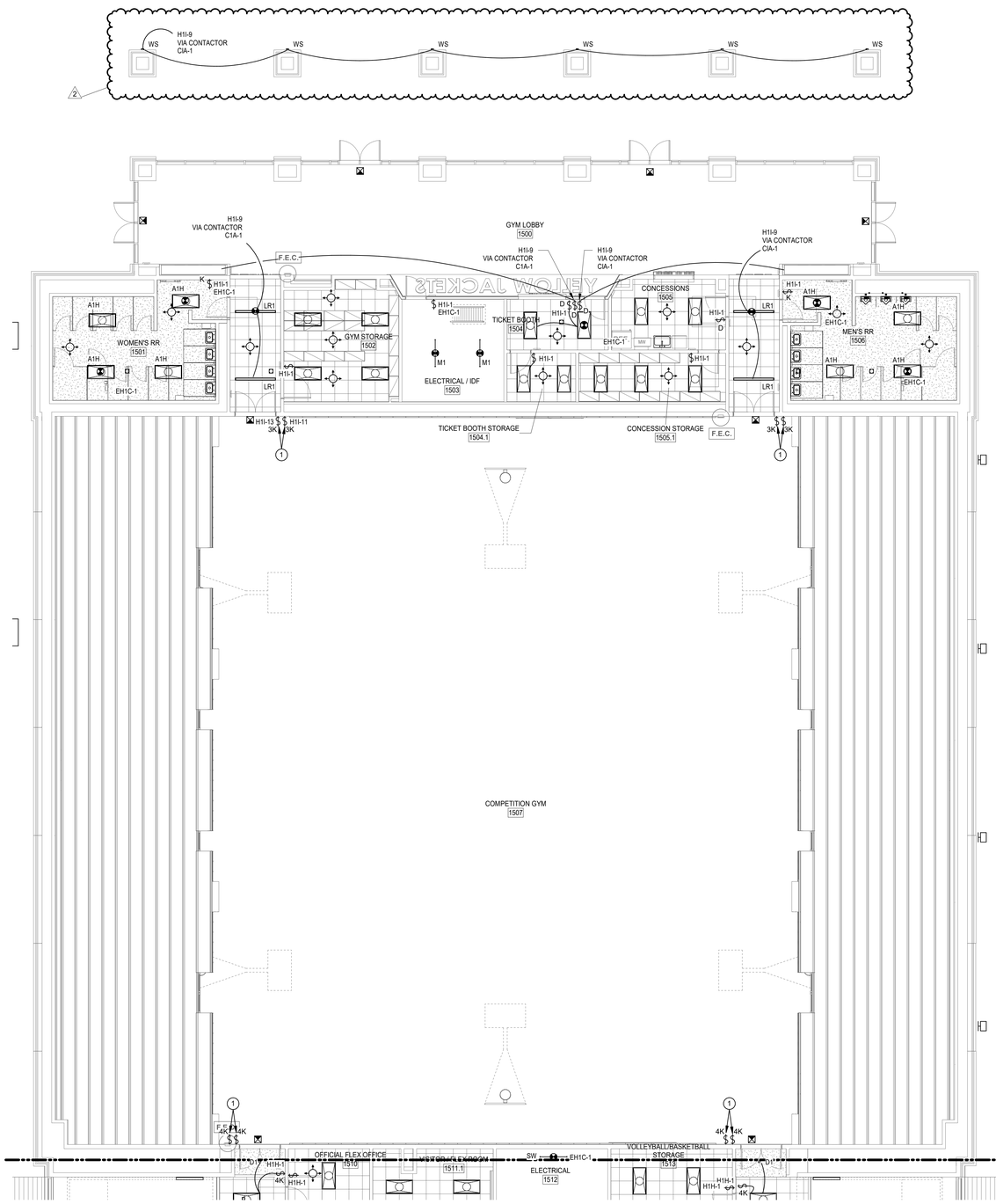
3RD FLOOR POWER PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103G

1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-201A

FOR BLUEBEAM LABELING/OCR:

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.

6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

LIGHTING PLAN KEYED NOTES

(1) LOCAL SWITCH FOR LIGHTING IN THIS SPACE. REFER TO E-202A FOR ADDITIONAL INFORMATION.

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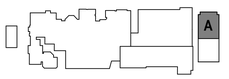
LEAF ENGINEERS

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



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
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

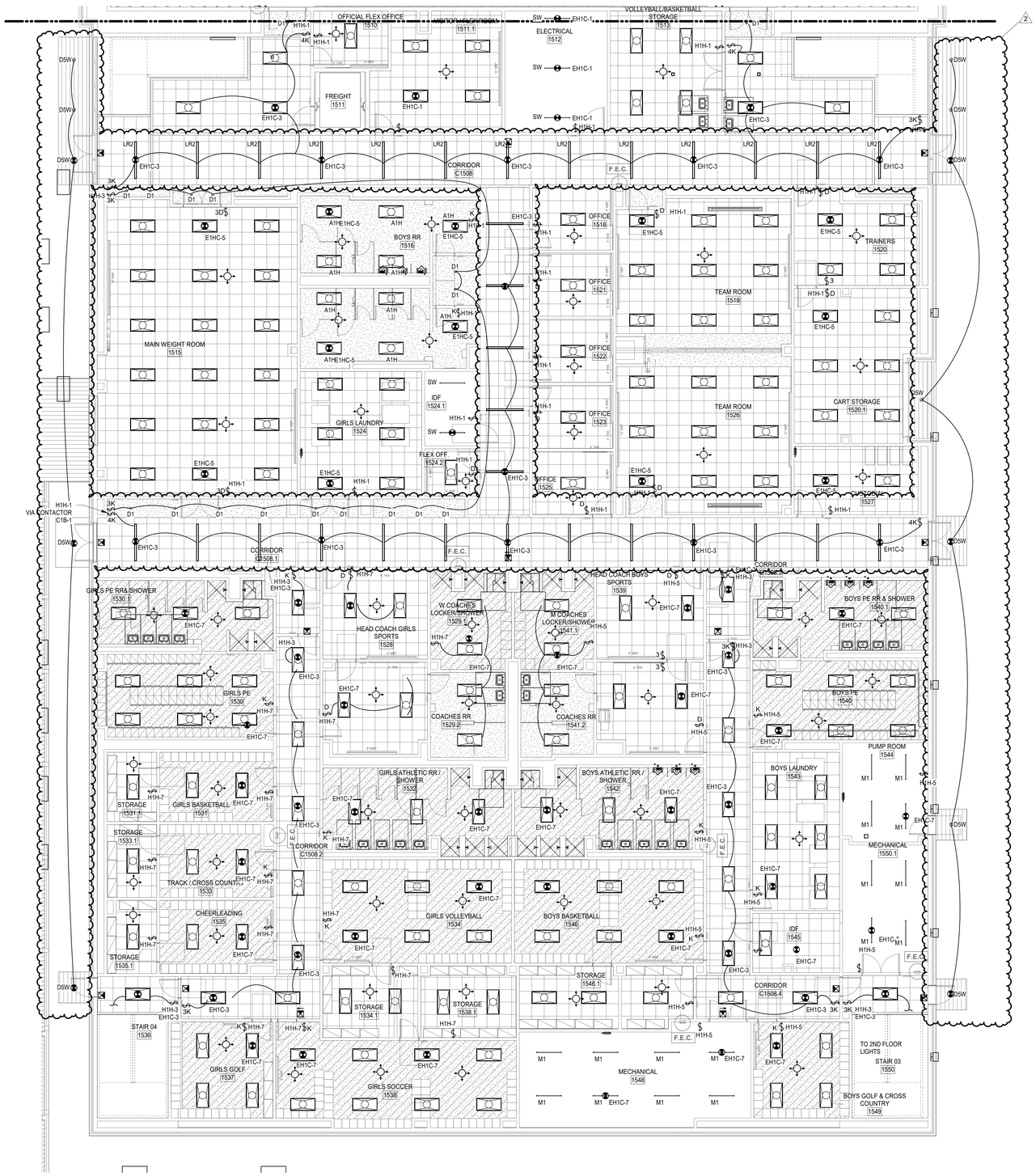
E-201A

Plot Stamp:
12/18/2025 5:03:54 PM

1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-201B

FOR BLUEBEAM LABELING/OCR:



1 **1ST FLOOR LIGHTING PLAN - AREA B 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, 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.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

PBK

LEAF ENGINEERS

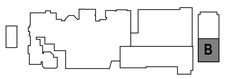
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

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
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-201B

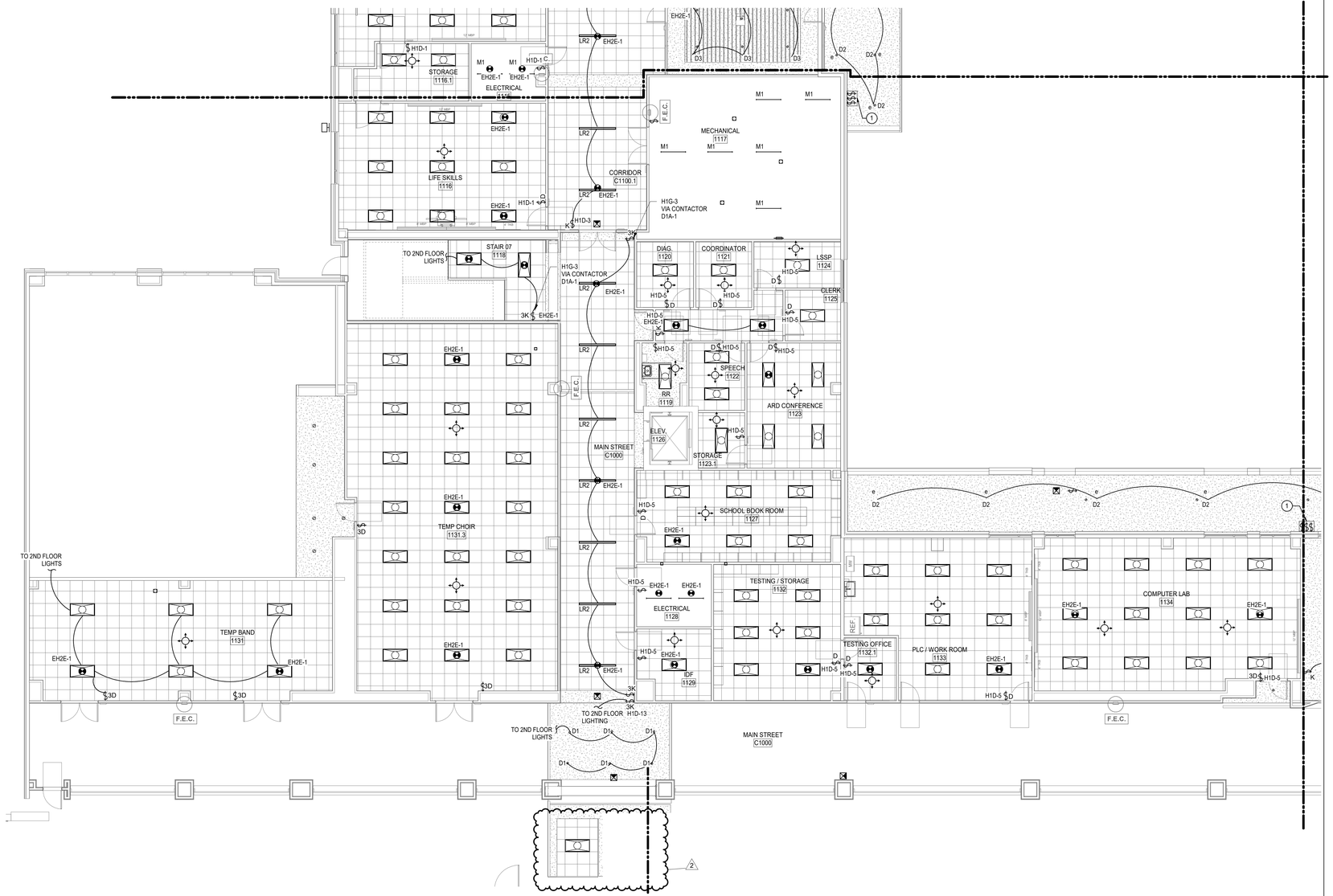
Plot Stamp:
12/18/2025 5:04:01 PM

0"
1"

1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201F

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.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

1 **1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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ISSUE FOR PROPOSAL

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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
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

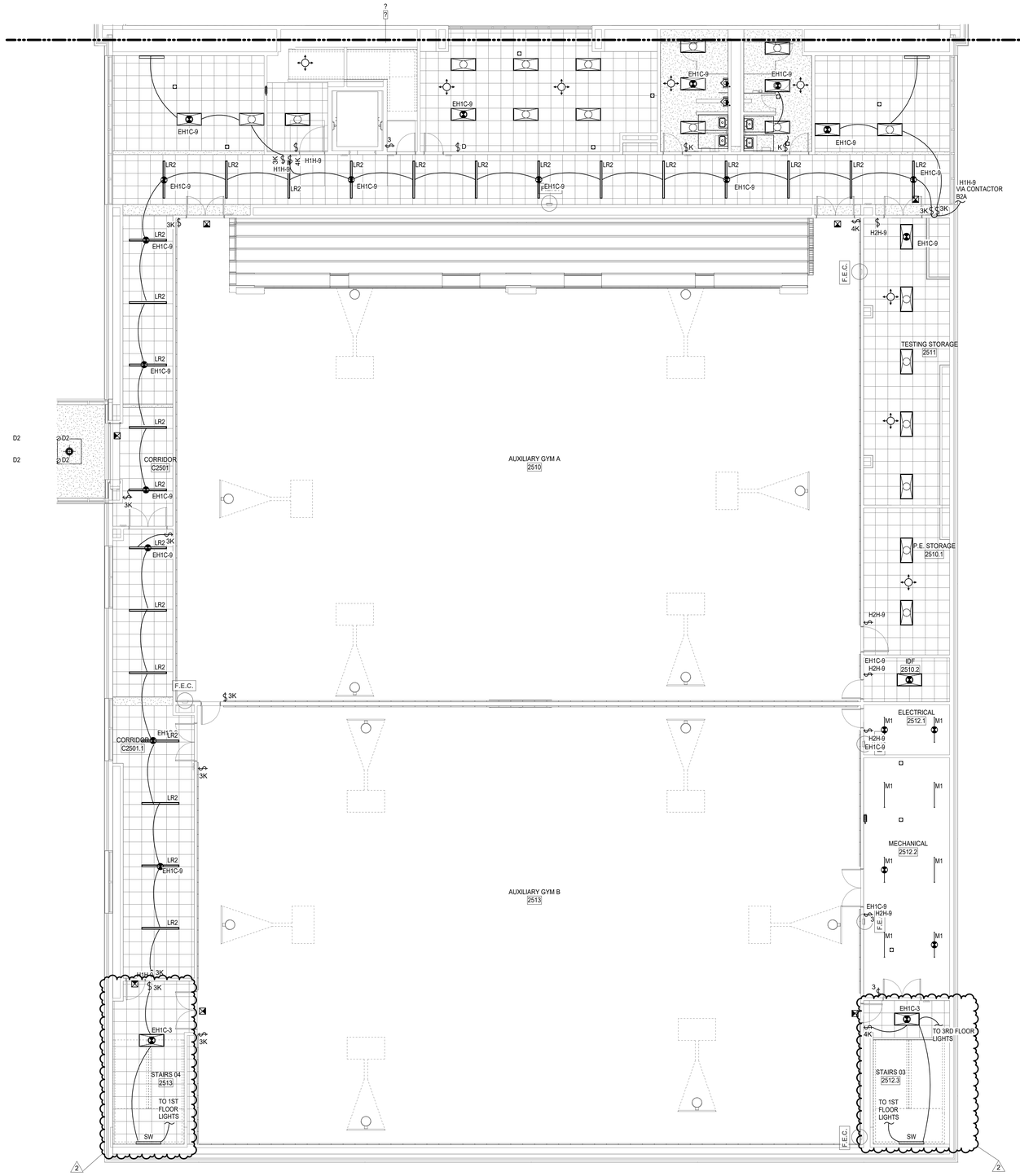
1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201F

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12/18/2025 5:04:04 PM

0"
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2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-202B
FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR LIGHTING PLAN - AREA B 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, 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).

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6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

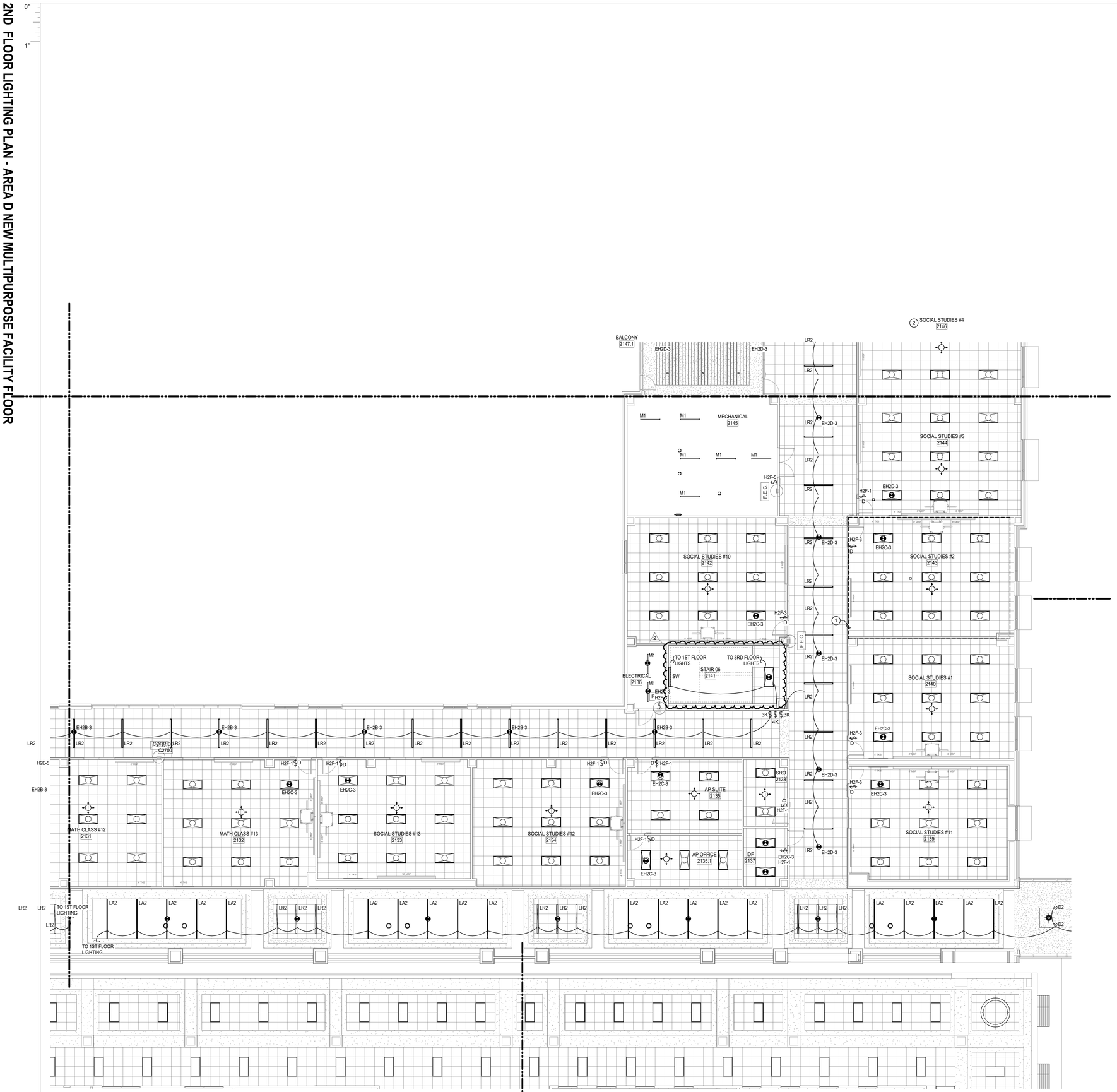
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2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202D

FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

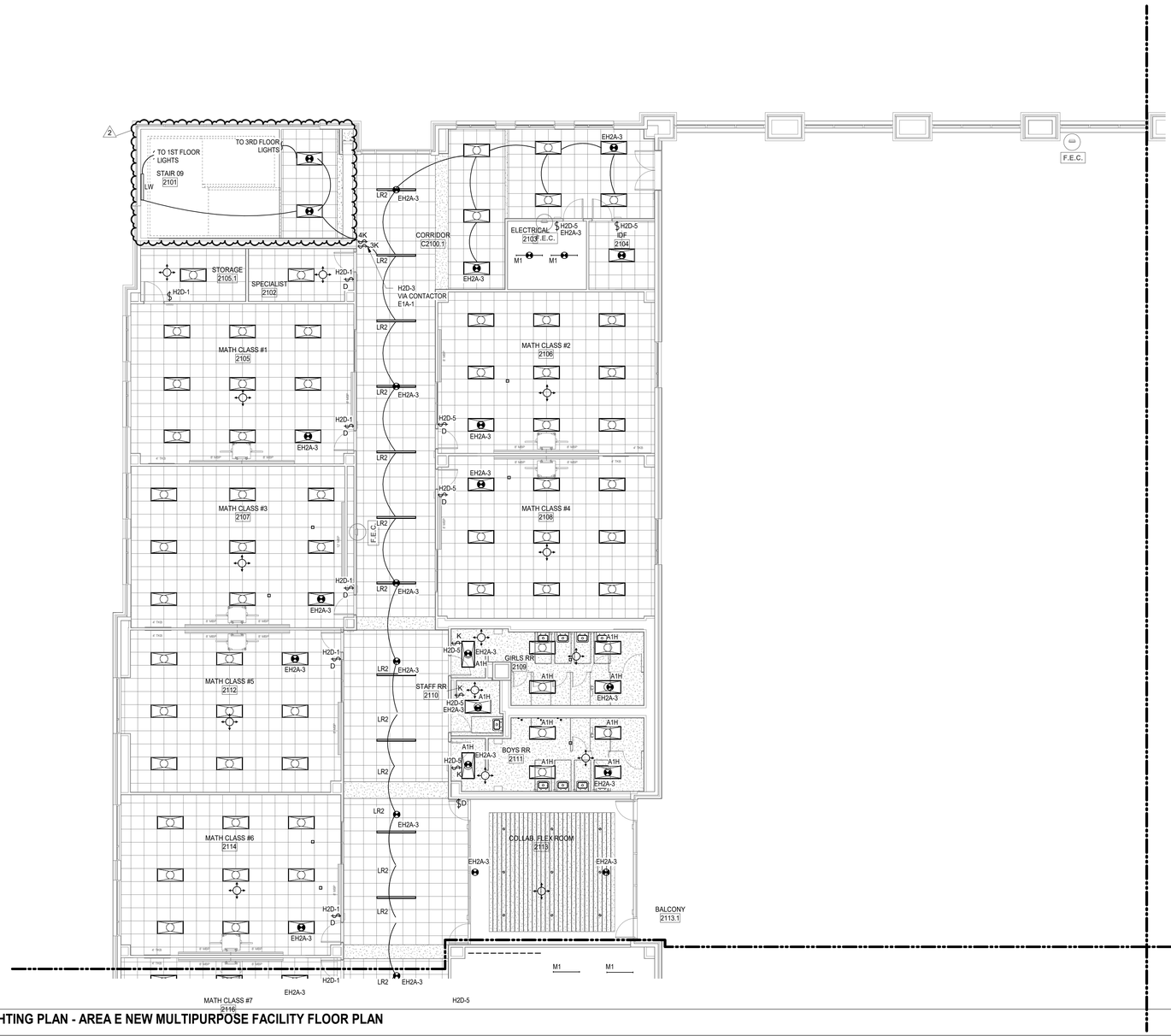
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2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202E

FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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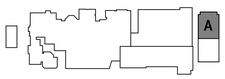
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CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

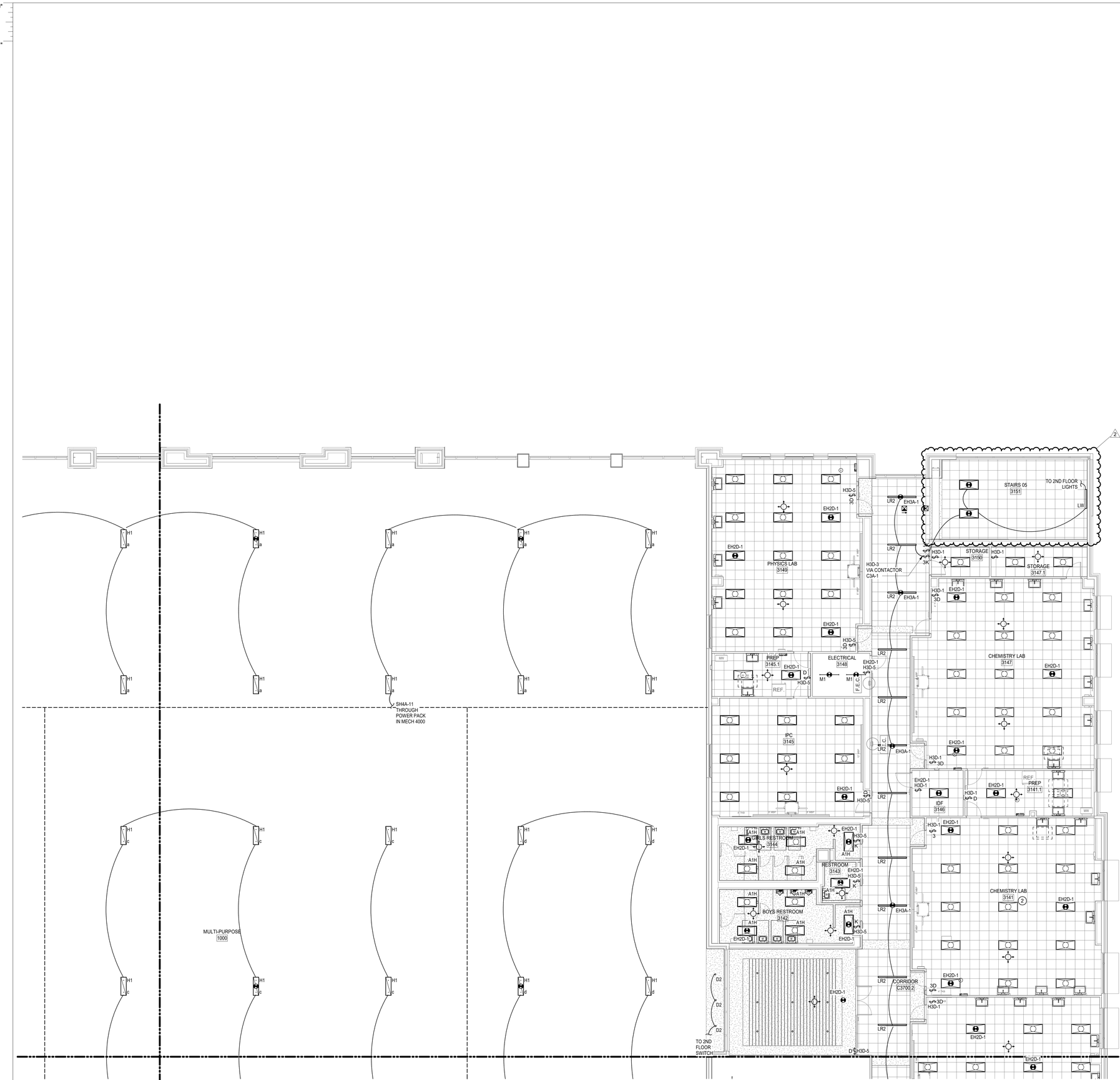
No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-202E

Plot Stamp:
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1 **3RD FLOOR LIGHTING PLAN - AREA C 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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
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CHECKED BY: OT
DRAWN BY: LT

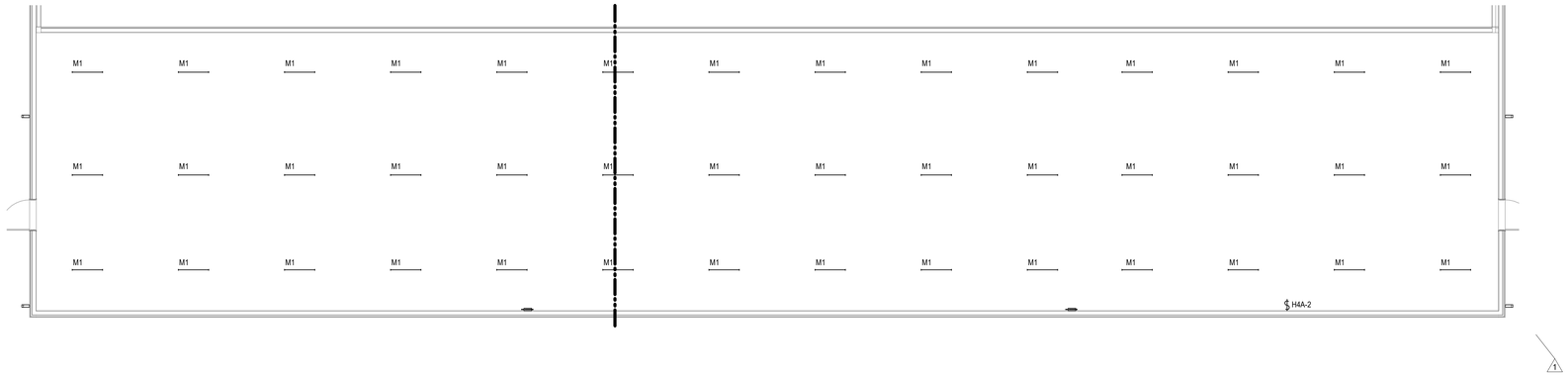
3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203C

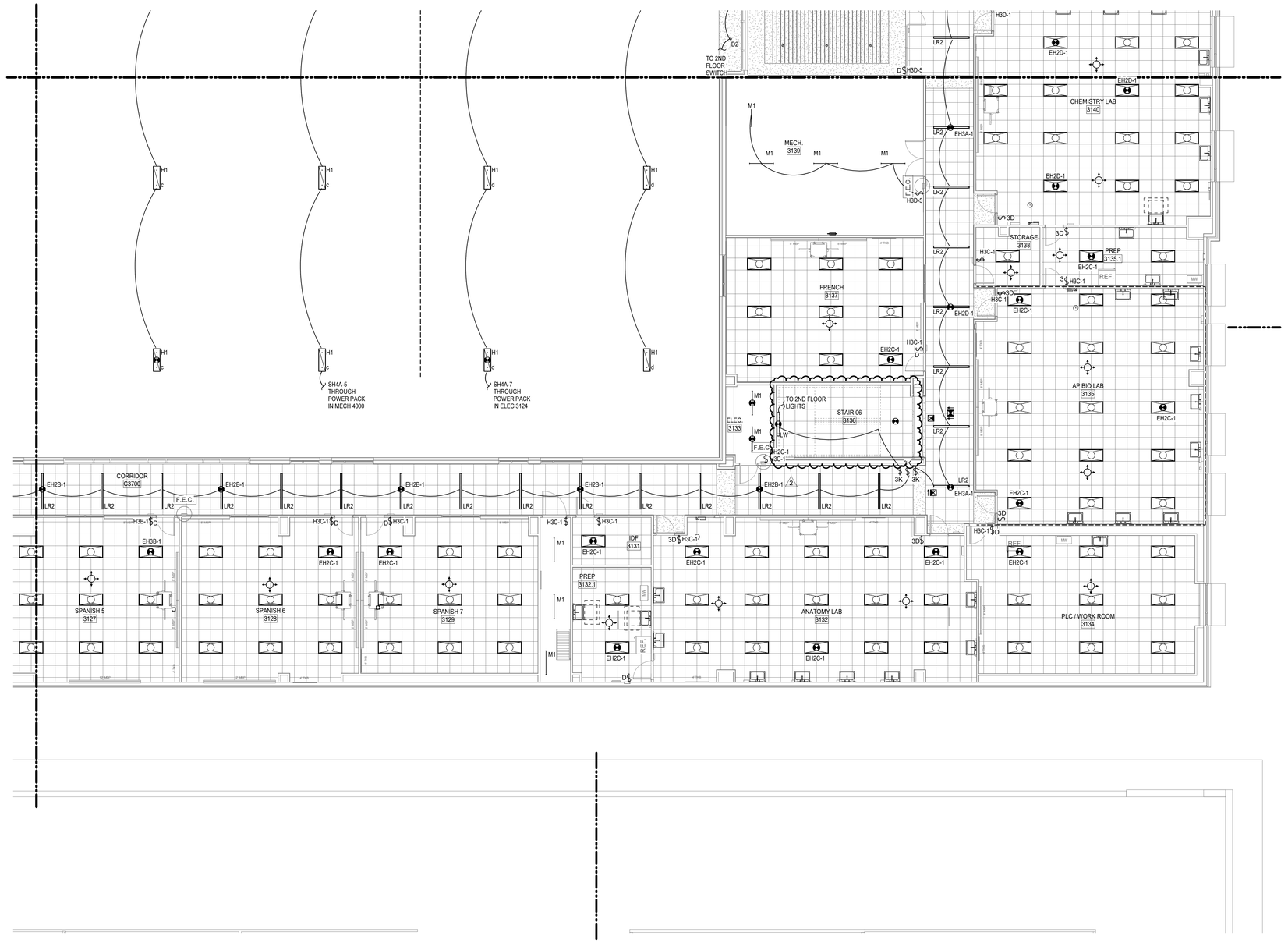
3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203C
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/18/2025 5:04:13 PM

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

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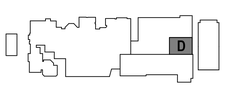
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LICENSED
PROFESSIONAL ENGINEER
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LEAF ENGINEERS
F-18672

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203D

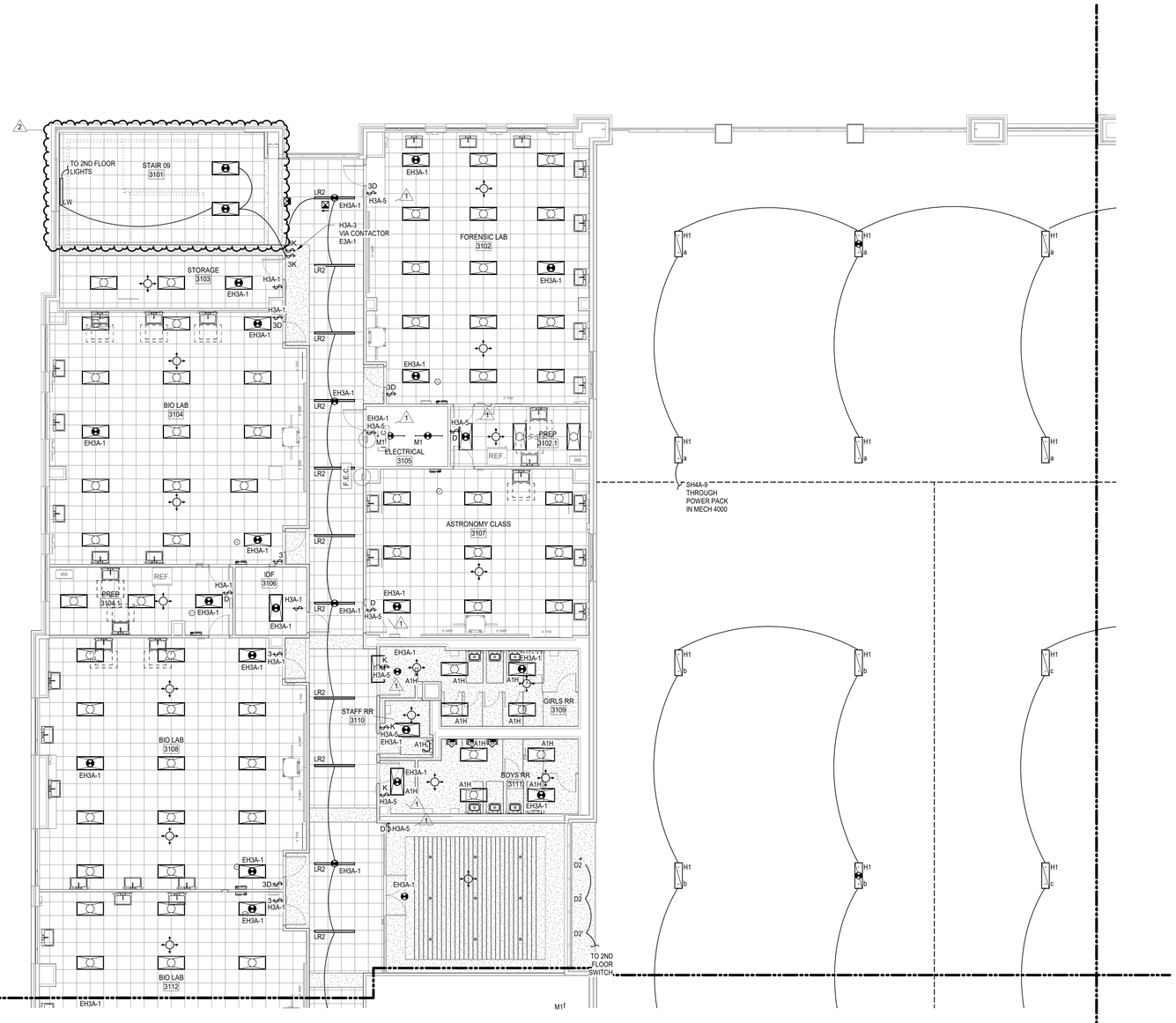
3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203D
FOR BLUEBEAM LABELING/OCR:

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3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203E

FOR BLUEBEAM LABELING/OCR:

0"
1"



1 3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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DONALD C. RICHARDS
61535
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
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203E

Plot Stamp:
12/18/2025 5:04:17 PM

0"
1"

3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203F

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.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

1 **3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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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

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
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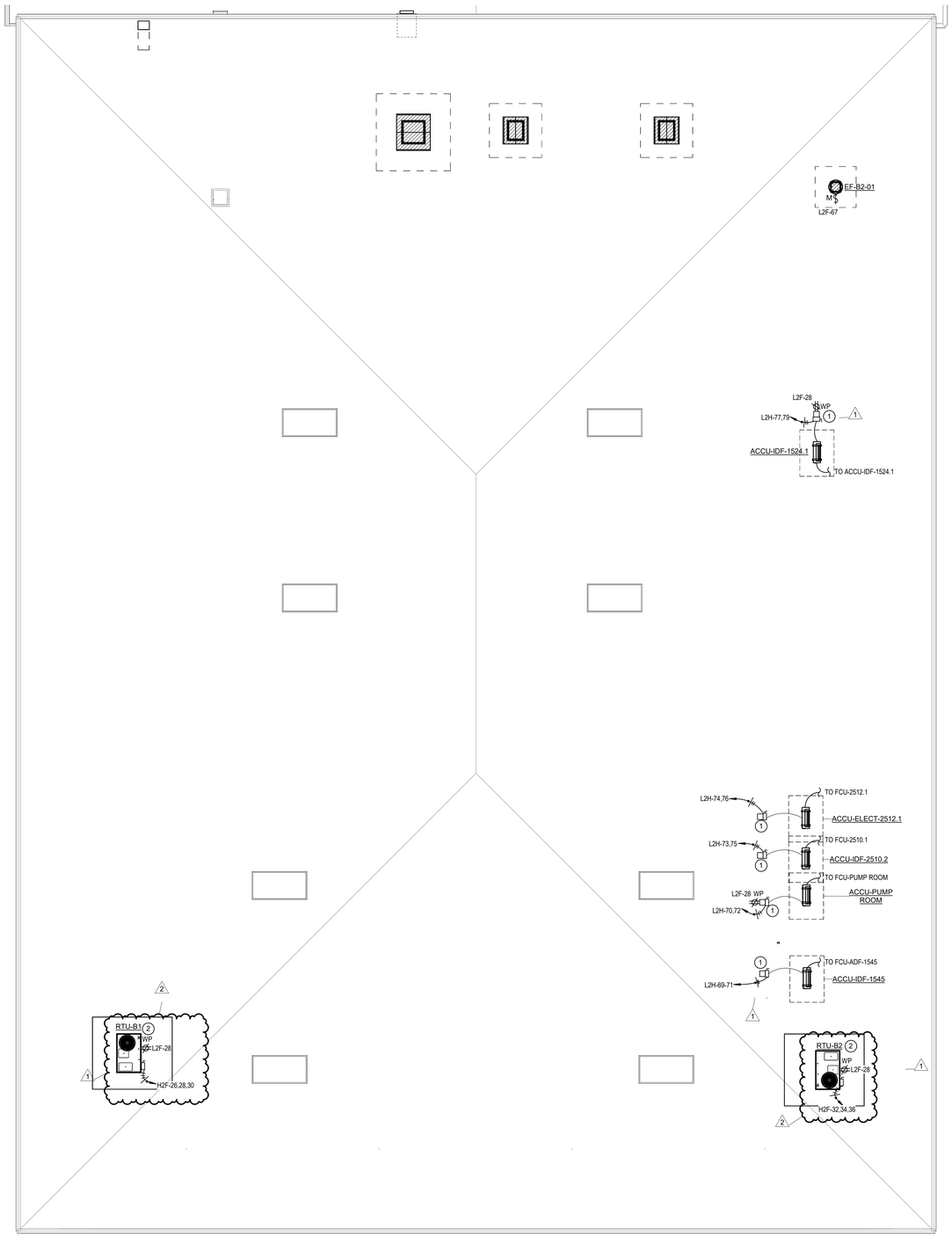
3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203F

ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN
E-301B

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. REFER TO DETAIL 4, E-602 FOR PEDESTAL MOUNT DISCONNECT AND RECEPTACLE.
2. DISCONNECT AND RECEPTACLE PROVIDED WITH UNIT BY DIVISION 23.

1

1 ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 5:04:23 PM

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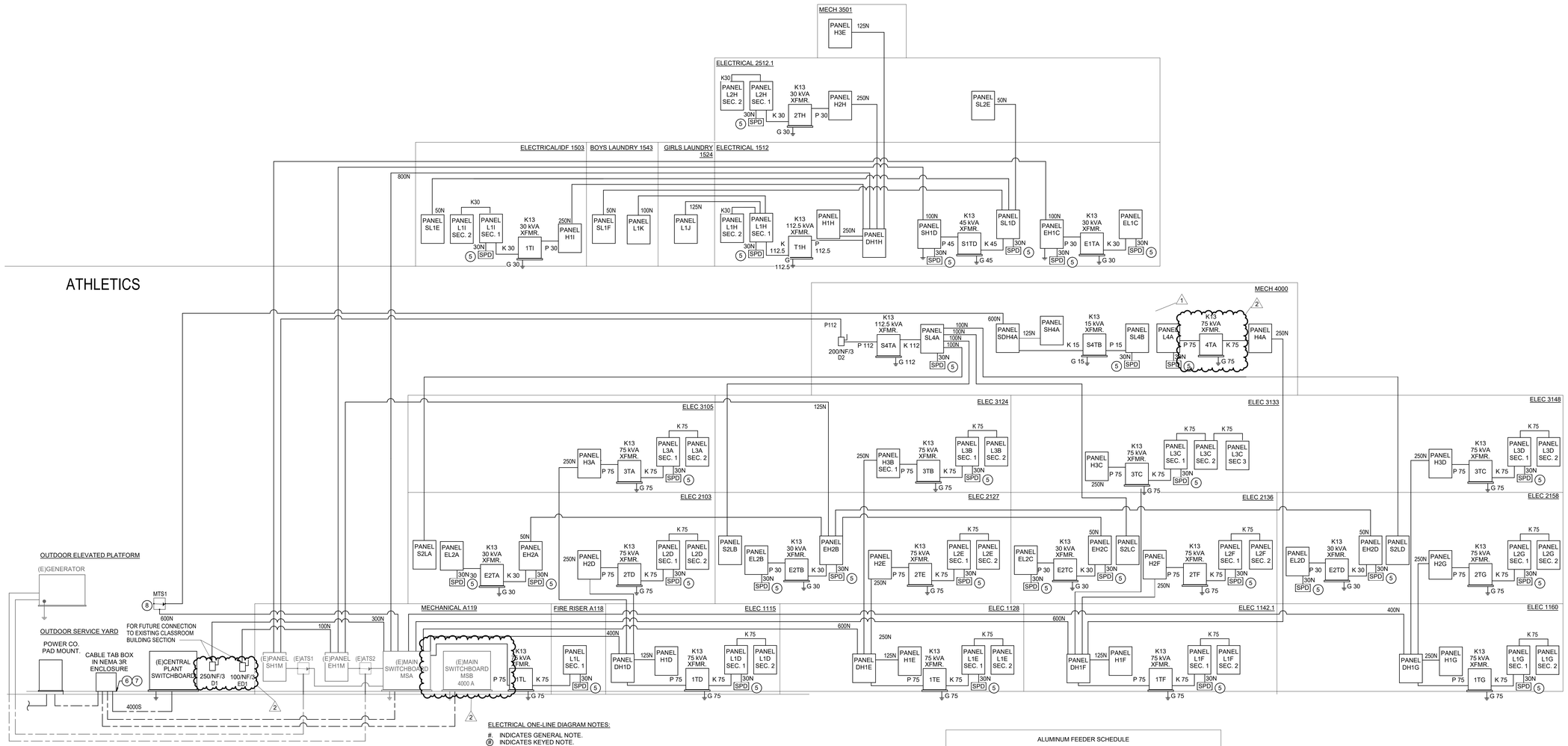
CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL ROOF PLAN - AREA B NEW GYM FLOOR PLAN

E-301B

ELECTRICAL RISER DIAGRAM
E-502
FOR BLUEBEAM LABELING/OCR:

0"
1"



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	

2 NOTE
ALUMINUM CONDUCTORS SHOWN SHALL ONLY BE PERMITTED FOR FEEDERS. ALUMINUM CONDUCTORS ARE NOT PERMITTED FOR BRANCH CIRCUITS TO INCLUDE MOTOR FEEDS AND SERVICE CONDUCTORS.

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	

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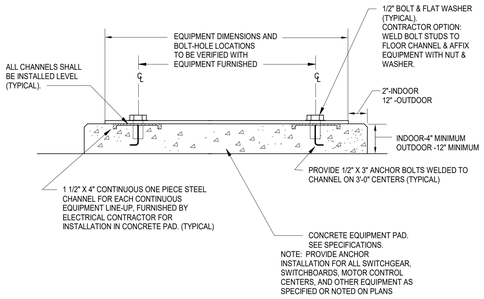
ELECTRICAL RISER DIAGRAM

E-502

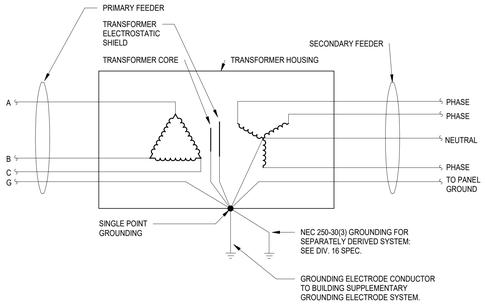
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12/18/2025 5:04:23 PM

ELECTRICAL DETAILS
E-602
FOR BLUEBEAM LABELING/OCR:

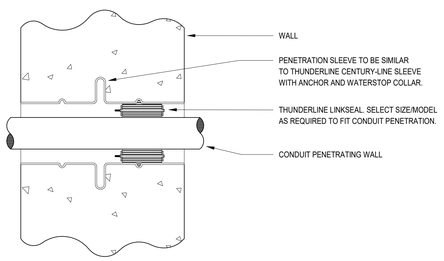
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1"



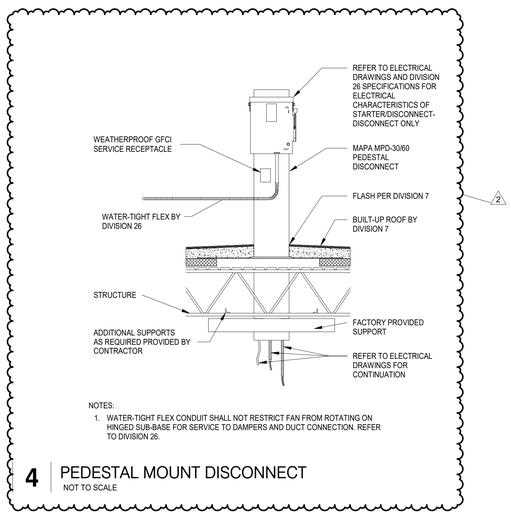
3 EQUIPMENT ANCHOR DETAIL
NOT TO SCALE



2 DELTA-WYE TRANSFORMER SCHEMATIC
NOT TO SCALE



1 CONDUIT PENETRATION DETAIL - EXTERIOR WALL
NOT TO SCALE



NOTES:
1. WATER-TIGHT FLEX CONDUIT SHALL NOT RESTRICT FAN FROM ROTATING ON HINGED SUB-BASE FOR SERVICE TO DAMPERS AND DUCT CONNECTION. REFER TO DIVISION 26.

4 PEDESTAL MOUNT DISCONNECT
NOT TO SCALE

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ELECTRICAL DETAILS

E-602

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	4.7	21.4	30.4	0.0	0.0	5.0	0.0				61.6	74.0
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	43.1	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	43.1	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: 12/10/2025 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	4.7	23.9	68.5	0.0	10.0	5.9	0.0	0.0			113.0	135.9
4	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
5	AHU-E-1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
6	AHU-F1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
7	OAHU-E1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
8	SPARE	250/3												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	132.7	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	132.7	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: 12/10/2025 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	2.5	27.7	61.0	0.0	0.0	7.6	0.0	0.0			98.8	118.9
4	PANEL H4A	250/3	SEE RISER	1.3	0.0	64.8	0.0	0.0	0.0	0.0	0.0			66.2	79.6
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: 12/10/2025 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	4.0	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	4.4	26.3	22.1	0.0	11.3	1.9	0.0	0.0			66.2	79.6
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	26.1	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	26.1	0.0	11.3	5.8	0.0	1.0	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

(1) PROVIDE METER MAIN. SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

DISTRIBUTION PANEL:		DH1G
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	400 AMP
BUS SIZE	PHASE:	400 AMP
	NEUTRAL:	400 AMP
	GROUND:	PER NEC

Date: 12/10/2025 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	9.7	36.8	31.4	0.0	0.0	65.8	0.0	1.0			144.8	174.1
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	6.5	7.2	45.0	0.0	19.0	6.8	0.0	0.0			84.5	101.6
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...				27.2	98.5	203.9	9.0	23.7	148.1	0.0	1.0	0.0	0.0	511.4	615.1
				--	--	--	--	--	--	--	--	--	--	--	--
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				33.9	54.3	203.9	0.0	23.7	148.1	0.0	0.5	0.0	0.0	464.4	558.6

* 100% of...
** 125% of...
*** Elevator...
****

Largest... _____ KVA

(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

DISTRIBUTION PANEL:		DH1H
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	800 AMP
BUS SIZE	PHASE:	800 AMP
	NEUTRAL:	800 AMP
	GROUND:	PER NEC

Date: 12/10/2025 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...
****

Largest... _____ KVA

(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

DISTRIBUTION PANEL:		DH4A
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 12/18/2025 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.	2 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	45.4	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	132.7	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	251.9	0.0	16.0	20.9	0.0	5.0	0.0	0.0	#N/A	#N/A
9	DH1G	400/3	SEE RISER	#N/A	47.5	26.1	0.0	11.3	5.8	0.0	2.0	0.0	0.0	#N/A	#N/A
10	DH1H	800/3	SEE RISER	26.9	98.5	203.5	9.0	23.7	149.3	0.0	1.0	0.0	0.0	511.9	615.7
11	D1	250/3	SEE RISER												
12	MTS1(PCH1A)	400/3	SEE RISER	0.0	0.0	312.0	0.0	0.0	0.0	0.0	0.0				
13	1TL (75 KVA)	125/3	SEE RISER	0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0				
14	(E)SPARE	250/3													
15	(E)SPARE	225/3													
16	(E)SPARE	225/3												0.0	0.0
Total...				#N/A	293.0	1170.4	112.8	76.9	451.7	0.0	13.0	0.0	0.0	#N/A	#N/A
				--	--	--	--	--	--	--	--	--	--	--	--
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	151.5	1170.4	112.8	0.0	451.7	0.0	6.5	0.0	0.0	#N/A	#N/A

* 100% of 1st 10 KVA, 50% of remaining.
** 125% of largest motor + 100% sum of remaining motors
*** Elevator Demand Factor based on T620-14.
**** Residential Demand Factor based on T220-32.
(1) Lockable

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: 12/18/2025 By: Designer

Plot Stamp:
12/18/2025 5:04:25 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
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-700

ELECTRICAL PANEL SCHEDULES
EP-703
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: Job Name | Job No. Job Number | A/C... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **250 AMPS** | 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
1603							0.00	LIGHT - CLASS, STOR	20/1	10	1	A	2	12	20/1	CVB-F3-01-01			690					0.00
1200							0.00	LIGHT - HALL	20/1	10	3	B	4	12	20/1	CVB-F3-01-02			690					0.00
1497							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	10	30/3	ELEVATOR			3878					0.00
		3718					0.00	--	--		27	B	28	--	--	--			3878					0.00
		3718					0.00	--	--		29	C	30	--	--	--			3878					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)	120	7980	3208	0	0	1960	0	0.00
		3718					0.00	--	--		39	B	40	RISER	--	--	120	7980	3208	0	0	1960	0	0.00
		3718					0.00	--	--		41	C	42		--	--	120	7980	3208	0	0	1960	0	0.00
4300	0	39518	0	0	0	0	0.00	**TOTALS**								**TOTALS**	360	23940	28986	0	0	9972	5880	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
4.7	23.9	68.5	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
5.8	17.0	68.5	0.0	10.0	5.9	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	37.8
B	37.4
C	37.7

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	113.0	135.9		107.2	128.9

PANEL: **H3B**

Date: 12/10/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **250 AMPS** | 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
2491							0.00	LIGHT - CLASS, IDF	20/1	10	1	A	2	12	15/1	CVB-D3-01-01			942					0.00
							0.00				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
							0.00				13	A	14	12	15/1	CVB-D3-01-05			942					0.00
							0.00				15	B	16	12	15/1	CVB-C3-01-06A			693					0.00
							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
2491	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
2.5	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
3.1	18.8	61.0	0.0	0.0	7.6	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	34.9
B	31.9
C	32.1

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	98.8	118.9		90.6	109.0

PANEL: **H3C**

Date: 12/10/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **250 AMPS** | 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
1813							0.00	LIGHT - CLASS, STOR	20/1	10	1	A	2	12	15/1	CVB-C3-01-01			1108					0.00
864							0.00	LIGHT - HALL	20/1	10	3	B	4	12	15/1	CVB-C3-01-02			1108					0.00
1764							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
4441	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
4.4	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
5.6	18.2	22.1	0.0	11.3	1.9	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	22.7
B	21.7
C	21.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	66.2	79.6		59.1	71.1

PANEL: **H3D**

Date: 12/10/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **125 AMPS** | 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	30/3	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: 12/10/2025 | By: Designer

Job: Job Name | Job No. Job Number | A/C... 42000

Mounting **SURFACE** | Main Type **MLO** | Neutral **100%** | Voltage: **480Y/277V-3PH 4W** | Main Size: **250 AMPS** | 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	10	20/1	LIGHT - MECH RM	1344							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	125/3	4TA (75 KVA)	0	0	5720	0	0	3760	0	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**	1344	0	57240	0	0	3760	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
1.3	0.0	122.1	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
1.7	0.0	122.1	0.0	0.0	3.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	84.0
B	21.6
C	21.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	127.2	153.0		127.5	153.4

PANEL: **H4A**

Date: 12/17/2025 | By: Designer

Job: GPISD Phase 3b | Job No. 240539 | A/C...

Mounting **SURFACE** | Main... **MLO** | Neutral **200%** | Voltage: **480Y/277V-3PH 4W** | Main... **400 AMPS** | 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
2		10360					0.00	SHWP-1	60/3		19	A	20	(E)	60/3	(E)SCHP-1			7479					0.00
		10360					0.00		--		21	B	22	--	--	--			7479					0.00
		10358					0.00		--		23	C	24	--	--	--			7479					0.00
							0.00	SPARE	15/3	(E)	25	A	26											0.00
							0.00	--	--	(E)	27	B	28											0.00
							0.00	--	--	(E)	29	C	30											0.00
							1.00	SPARE	40/3	(E)	31	A	32											0.00
							0.00	--	--	(E)	33	B	34											0.00
							0.00	--	--	(E)	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	91078	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	153.4	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	153.4	0.0	0.0	0.0	0.0	2.0	Design KVA

Phase Load

Ph	KVA
A	51.1
B	51.1
C	51.1

Panel Remarks:

*Input di...
**100% ...

0

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	157.4	189.3		155.4	186.9

PANEL: **(E)H1M**

Date: 12/18/2025 | By: Designer

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

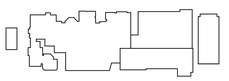
LEAF ENGINEERS

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE 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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-703

Plot Stamp:
12/18/2025 5:04:26 PM

ELECTRICAL PANEL SCHEDULES
EP-705
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — A/C... 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 - WALL 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: 12/10/2025 — 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: 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
							1.00	SPARE	20/1		13	A	14	12	20/1	RECP - MECH CONV		720						0.00
							1.00	SPARE	20/1		15	B	16	12	20/1	RECP - WATER FOUNT		700						0.00
							0.00	GAME CAMERA #1	20/1	12	17	C	18	12	20/1	RECP - ROOF		180						0.00
							0.00	GAME CAMERA #2	20/1	12	19	A	20		20/1	SPARE								1.00
							0.00	SCOREBOARD #1	20/1	12	21	B	22	12	20/1	RECP - CONV LOB, BATH		720						0.00
							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	6000	0	0	4000	0	2.00	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	12	20/1	MECH SHADES #1						600		0.00
							0.00	MOTOR SCREEN #1	20/1	12	47	C	48											0.00
	288						0.00	BLEACHER #1	15/3	12	49	A	50	12	15/3	BLEACHER #2		288						0.00
	288						0.00	--	--	--	51	B	52	--	--	--		288						0.00
	288						0.00	--	--	--	53	C	54	--	--	--		288						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
							0.00				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
	100						0.00	CP-2A	15/1	12	77	C	78	12	20/1	UV AHU-A2-03						1200		0.00
				2357			0.00	TRAP PRIMERS	20/1	12	79	A	80	12	20/1	BAS PANEL						180		0.00
				2357			0.00	ACCU-ELECT/IDF-1503	50/3	6	81	B	82	12	20/1	EF-A1-01			667					0.00
				2357			0.00	--	--	--	83	C	84	12	20/1	EF-A1-02			667					0.00
0	540	964	0	4715	540	0	0.00	TOTALS								TOTALS	0	0	2198	0	0	6280	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	17.6	9.2	0.0	4.7	10.8	0.0	3.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	13.8	9.2	0.0	4.7	10.8	0.0	1.5	Design KVA

Phase Load

Ph	KVA
A	11.5
B	15.3
C	15.4

Panel Remarks: (1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	45.3	125.8		40.0	111.0

PANEL: L1I

Date: 12/17/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 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			WASHER #1	20/2	12	1	A	2	12	20/2	DRYER #1								
					1664			--	--		3	B	4		--	--								
					1664			WASHER #2	20/2	12	5	C	6	12	20/2	DRYER #2								
					1664			--	--		7	A	8		--	--								
					1664			WASHER #3	20/2	12	9	B	10	12	20/2	DRYER #3								
					1664			--	--		11	C	12		--	--								
											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: 12/10/2025 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 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							RECP - BOYS, PUMP	20/1	12	1	A	2	12	20/1	RECP - BOYS HALL		720						0
	1260							RECP - BOYS, STO, MECH	20/1	12	3	B	4	12	20/1	RECP - BOYS COACH		1080						0
	900							RECP - BOY COACH, RR	20/1	12	5	C	6	12	20/1	RECP - BOYS PRINTER		1200						0
	1080							RECP - GIRLS COACH	20/1	12	7	A	8	12	20/1	RECP - GIRL COACH, RR		900						0
	1200							RECP - GIRLS PRINTER	20/1	12	9	B	10	12	20/1	RECP - GIRL STOR		1080						0
	720							RECP - GIRLS HALL	20/1	12	11	C	12	12	20/1	RECP - GIRL, STOR, RR		1440						0
											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			UV OA-B1-02	20/1	12	23	C	24											0.00
					1200			UV AHU-B1-03	20/1	12	25	A	26	12	15/1	CP-1B			100					0.00
					1200			UV AHU-B1-04	20/1	12	27	B	28	12	20/1	TRAP PRIMER								0.00
					360			BAS PANEL	20/1	12	29	C	30	12	20/1	GWH-1,2						360		0.00
					1664			WASHER #1	20/2	12	31	A	32	12	20/2	DRYER #1						1664		0.00
					1664			--	--		33	B	34		--	--						1664		0.00
					1664			WASHER #2	20/2	12	35	C	36	12	20/2	DRYER #2						1664		0.00
					1664			--	--		37	A	38		--	--						1664		0.00
					1664			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: 12/10/2025 — By: Designer

Plot Stamp:
12/18/2025 5:04:27 PM

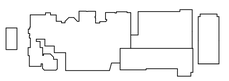
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DONALD C. RICHARDS
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PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

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

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-705

ELECTRICAL PANEL SCHEDULES
EP-707
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: 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 #6 A		540						0.00
	720						0.00	RECP - SOC STUD #3 B	20/1	12	3	B	4	20/1	12	RECP - SOC STUD #6 B		720						0.00
	540						0.00	RECP - SOC STUD #3 C	20/1	12	5	C	6	20/1	12	RECP - SOC STUD #6 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 #8 A		540						0.00
	720						0.00	RECP - SOC STUD #1 B	20/1	12	15	B	16	20/1	12	RECP - SOC STUD #8 B		720						0.00
	540						0.00	RECP - SOC STUD #1 C	20/1	12	17	C	18	20/1	12	RECP - SOC STUD #8 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... — 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
					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
					180		0.00	BAS PANEL	20/1	12	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

Phase Load

Ph	KVA
A	8.2
B	10.1
C	9.2

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	33.5	93.1		26.7	74.2

PANEL: L2F

Date: 12/10/2025 — 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... — 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-C2-01-01	15/1	12	83	C	84											0.00
0	0	180	0	0	3840	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	15.5	0.2	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	0.2	0.0	0.0	3.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	6.6
B	8.4
C	4.5

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	19.5	54.1		16.8	46.5

PANEL: L2G

Date: 12/10/2025 — 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
							1.00	SPARE	20/1		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
2							0.00				35	C	36											0.00
	288						0.00	MOTORIZED BLEACHER	15/3	12	37	A	38	10	30/3	SPD								0.00
	288						0.00	--	--	--	39	B	40	-	-	-								0.00
	288						0.00	--	--	--	41	C	42	-	-	-								0.00
0	4320	0	0	0	1000	0	0.00	**TOTALS**								**TOTALS**	0	4860	6000	0	0	0	0	0.00

PANEL: L2H 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
							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	12.9	0.0	19.0	6.8	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	7.2	12.9	0.0	19.0	6.8	0.0	0.5	Design KVA

Phase Load

Ph	KVA
A	15.7
B	14.6
C	15.5

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	46.9	130.1		46.4	128.7

PANEL: L2H

Date: 12/17/2025 — 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	0	0	0.00	**TOTALS**								**TOTALS**	0	5580	0	0	0	1920	0	0.00

PANEL: L3A 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
	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	73	A	74											0.00
1		720					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-3106	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
		1144					0.00	ACCU-IDF-2104	25/2	10	81	B	82	10	25/2	ACCU-IDF-1106			1144					0.00
		1144					0.00	--	--	--	83	C	84	--	--	--			1144					0.00
0	4860	5476	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	11.0	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	11.0	0.0	0.0	5.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	11.3
B	11.6
C	14.5

Panel Remarks:

*Input di...
**100% ...

|

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**

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 C	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...**

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
	720						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
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
360							0.00	CAB LIGHTING	15/1	12	67	A	68	12	20/1	UV OAHU-E3-01						1200		0.00
		1176					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											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
360	6840	6808	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
0.4	23.9	9.6	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
0.5	17.0	9.6	0.0	0.0	5.9	0.0	2.0	Design KVA

Phase Load

Ph	KVA
A	11.9
B	15.5
C	12.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	43.8	121.6		34.9	96.9

PANEL: **L3B**

Date: 12/10/2025 — 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: **L3C**

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 - AP BIO 3135 A	20/1	12	1	A	2	12	20/1	RECP - ANAT 3132 A		360						0.00
	720						0.00	RECP - AP BIO 3135 B	20/1	12	3	B	4	12	20/1	RECP - ANAT 3132 B		720						0.00
	540						0.00	RECP - AP BIO 3135 C	20/1	12	5	C	6	12	20/1	RECP - ANAT 3132 C		540						0.00
	540						0.00	RECP - AP BIO 3135 D	20/1	12	7	A	8	12	20/1	RECP - ANAT 3132 D		540						0.00
	540						0.00	RECP - AP BIO 3135 E	20/1	12	9	B	10	12	20/1	RECP - ANAT 3132 E		540						0.00
	540						0.00	RECP - AP BIO 3135 F	20/1	12	11	C	12	12	20/1	RECP - ANAT 3132 F		540						0.00
	540						0.00	RECP - AP BIO 3135 G	20/1	12	13	A	14	12	20/1	RECP - ANAT 3132 G		540						0.00
	540						0.00	RECP - AP BIO 3135 H	20/1	12	15	B	16	12	20/1	RECP - ANAT 3132 H		540						0.00
	360						0.00	RECP - AP BIO 3135 I	20/1	12	17	C	18	12	20/1	RECP - PREP 3131.1 A		360						0.00
	180						0.00	RECP - AP BIO 3135 J	20/1	12	19	A	20	12	20/1	RECP - PREP 3131.1 B		180						0.00
	360						0.00	RECP - PREP 3135.1 A	20/1	12	21	B	22	12	20/1	RECP - PREP 3131.1 C		180						0.00
	180						0.00	RECP - PREP 3135.1 B	20/1	12	23	C	24	12	20/1	RECP - PREP 3131.1 D		180						0.00
	180						0.00	RECP - PREP 3135.1 C	20/1	12	25	A	26	12	20/1	RECP - PREP 3131.1 E		180						0.00
	180						0.00	RECP - PREP 3135.1 D	20/1	12	27	B	28	12	20/1	RECP - PREP 3131.1 F		180						0.00
	180						0.00	RECP - PREP 3135.1 E	20/1	12	29	C	30	12	20/1	RECP - PREP 3131.1 G		180						0.00
	720						0.00	RECP - FRIDGE A (1)	20/1	12	31	A	32	12	20/1	RECP - FRIDGE B (1)		720						0.00
	1200						0.00	RECP - DISHWASHER A	20/1	12	33	B	34	12	20/1	RECP - DISHWASHER B		1200						0.00
							0.00	L3C1	100/3	SEE	35	C	36											0.00
							0.00	--	--	RISER	37	A	38	10	30/3	SPD								0.00
							0.00	--	--		39	B	40	-	-	-								0.00
						360	0.00	FUME HOOD	20/1	12	41	C	42	-	-	-								0.00
0	7860	0	0	0	0	360	0.00	**TOTALS**								**TOTALS**	0	7680	0	0	0	0	0	0.00

PANEL: **L3C 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 - FRENCH 3137 A	20/1	12	43	A	44	12	20/1	RECP - PLC/WORK A		720						0.00
	540						0.00	RECP - FRENCH 3137 B	20/1	12	45	B	46	12	20/1	RECP - PLC/WORK B		180						0.00
	720						0.00	RECP - FRENCH 3137 C	20/1	12	47	C	48	12	20/1	RECP - PLC/WORK C		180						0.00
	540						0.00	RECP - SPANISH 7 A	20/1	12	49	A	50	12	20/1	RECP - PLC/WORK D		180						0.00
	540						0.00	RECP - SPANISH 7 B	20/1	12	51	B	52	12	20/1	RECP - PLC/WORK E		180						0.00
	720						0.00	RECP - SPANISH 7 C	20/1	12	53	C	54	12	20/1	RECP - PLC/WORK F		180						0.00
	540						0.00	RECP - SPANISH 6 A	20/1	12	55	A	56	12	20/1	RECP - PLC/WORK G		180						0.00
	540						0.00	RECP - SPANISH 6 B	20/1	12	57	B	58	12	20/1	RECP - PLC/WORK H		180						0.00
	720						0.00	RECP - SPANISH 6 C	20/1	12	59	C	60	12	20/1	RECP - PLC/WORK I		1200						0.00
							0.00	RECP - HALL	20/1	12	61	A	62	12	20/1	RECP - PLC/WORK J		180						0.00
							0.00	RECP - MECH, ELEC	20/1	12	63	B	64	12	20/1	RECP - FRIDGE C (1)		720						0.00
							0.00				65	C	66	12	20/1	RECP - PRINTER		1200						0.00
							0.00				67	A	68	12	20/2	RECP - PRINTER SPEC(1)						1664		0.00
							0.00				69	B	70	12	20/1	RECP - FLOORBOXES A		720				1664		0.00
							0.00				71	C	72	12	20/1	RECP - FLOORBOXES A		720						0.00
							0.00				73	A	74			TRAP PRIMER								0.00
							0.00				75	B	76			BAS PANEL								0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
							0.00				81	B	82											0.00
							0.00				83	C	84											0.00
0	5400	4576	0	0	3780	0	0.00	**TOTALS**								**TOTALS**	0	6720	3008	0	0	3508	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	27.7	7.6	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
0.0	18.8	7.6	0.0	0.0	7.6	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	12.3
B	16.0
C	14.6

Panel Remarks:
(1)GFI(GROUND FAULT INTERRUPTOR)

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	42.9	119.1		34.1	94.5

PANEL: **L3C**

Date: 12/10/2025 — 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**

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			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...**

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-D3-01.02	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: 12/10/2025 — 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**

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: 12/18/2025 — 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 **SINGLE**

PANEL: **L4A**

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	12	20/1	BAS PANEL						180		0.00
							0.00	RECP - ROOF CONV	20/1	12	3	B	4

PLUMBING DEMO SITE PLAN
PD-101
FOR BLUEBEAM LABELING/OCR:

0"
1"

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.

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.

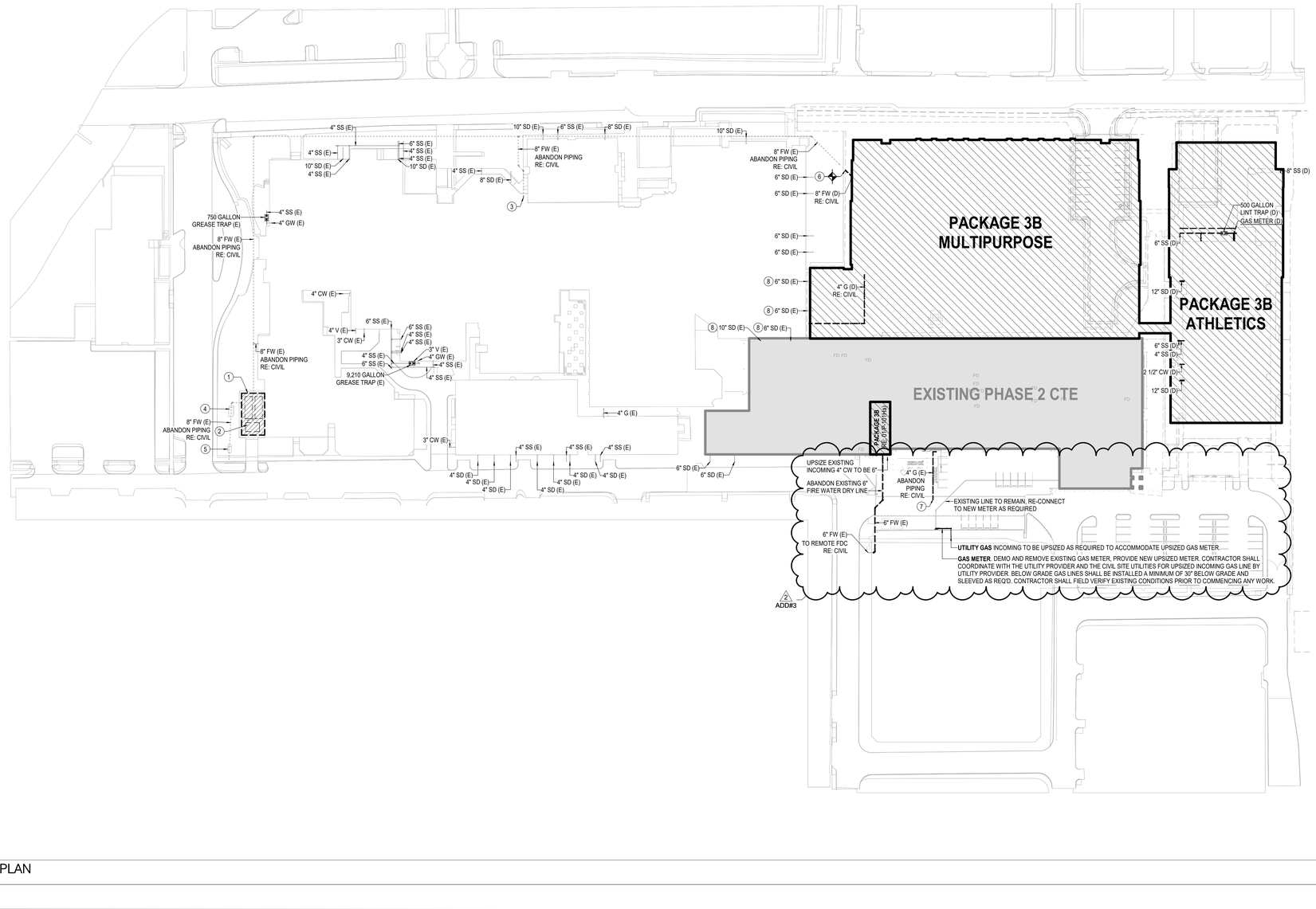
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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"

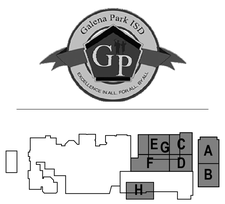
Plot Stamp:
12/16/2025 2:07:44 PM

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



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
2	PACKAGE 3B - ADD 03	12/19/2025

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.

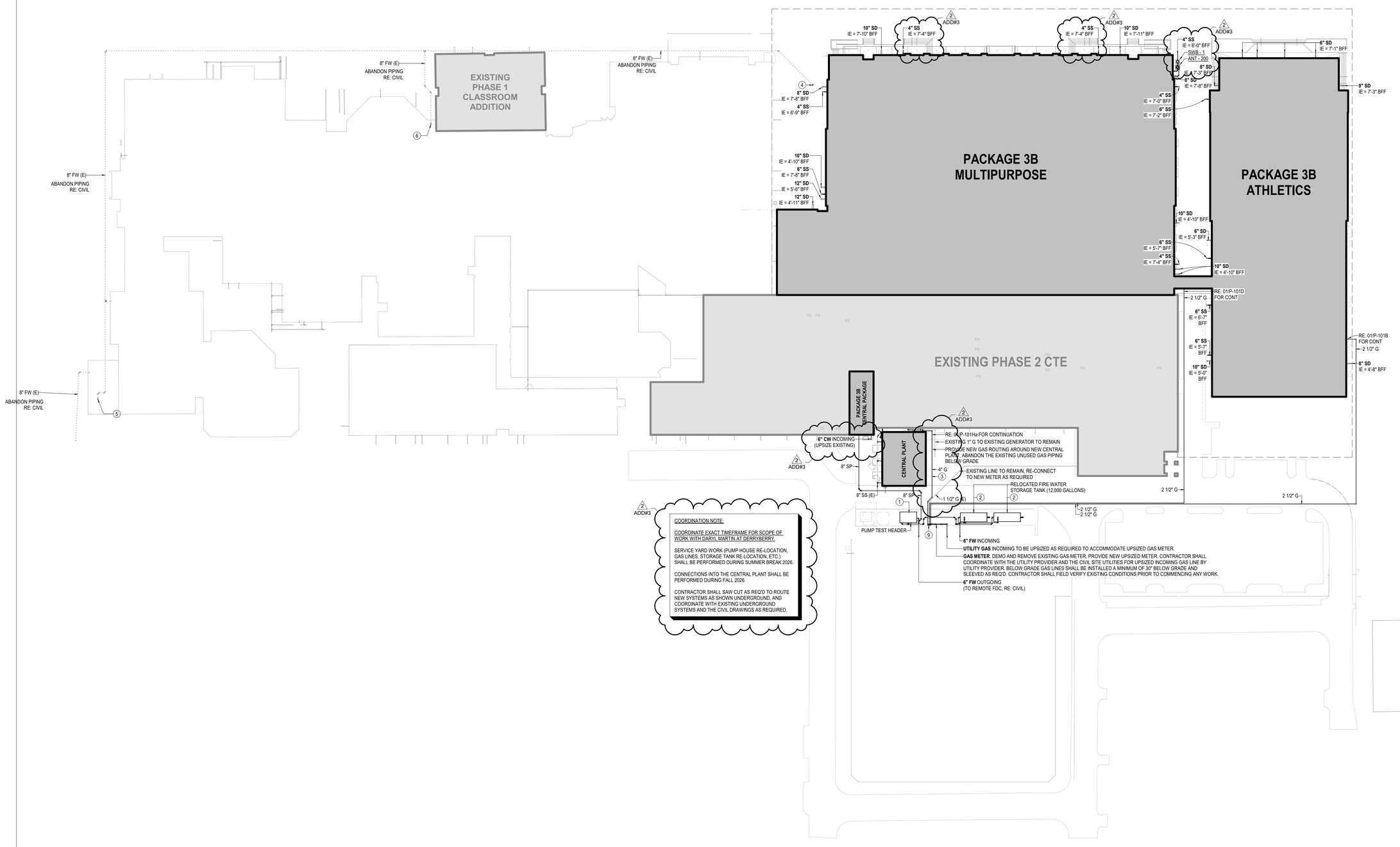
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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:
12/16/2025 4:33:37 PM

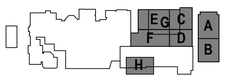
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LEAF ENGINEERS

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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
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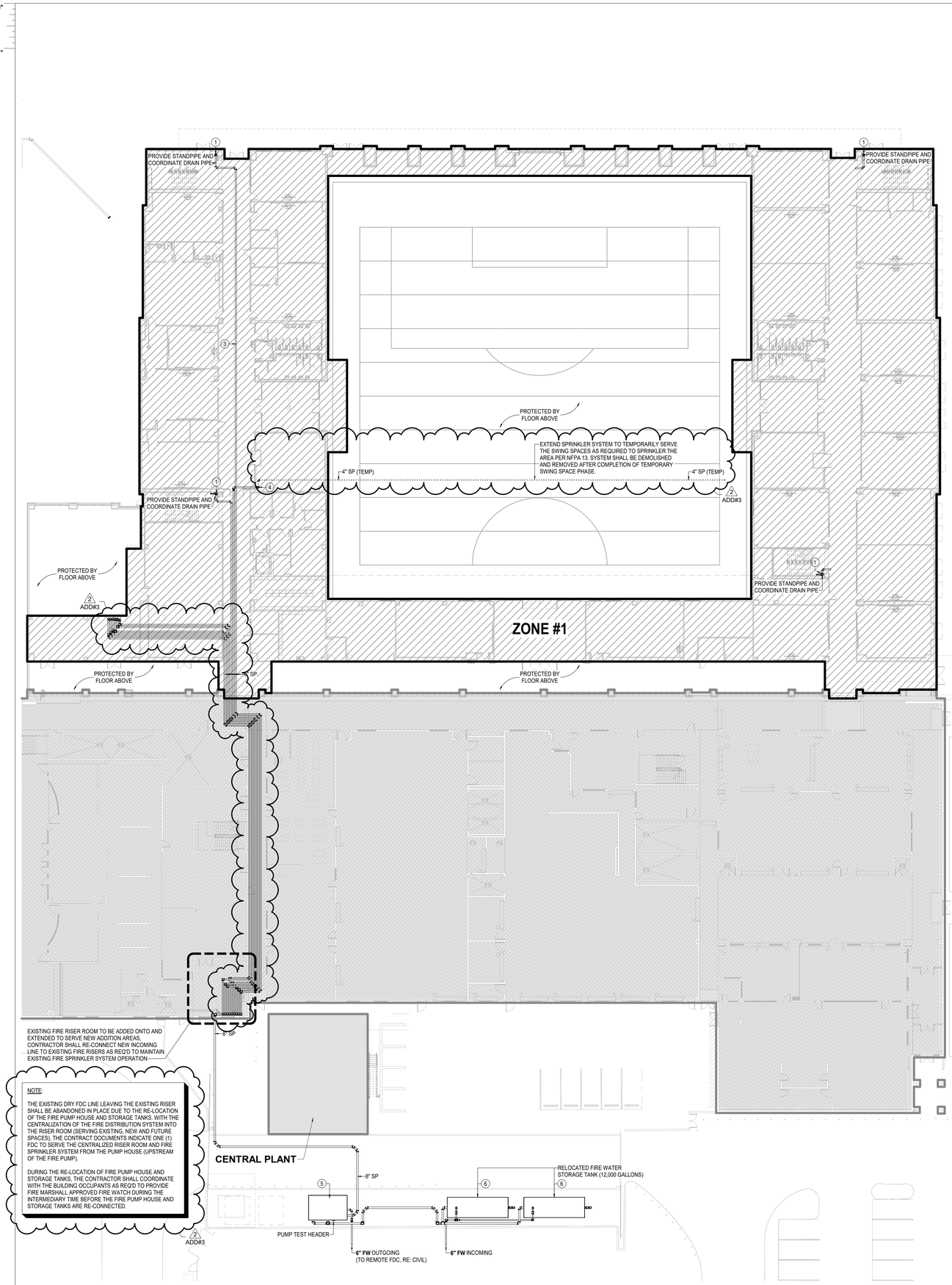
CHECKED BY: SC
DRAWN BY: SC

PLUMBING SITE PLAN

PS-101

1ST FLOOR FIRE PROTECTION PLAN
PF-101
FOR BLUEBEAM LABELING/OCR:

0"
1"



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.

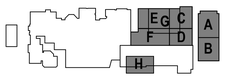
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LEAF ENGINEERS

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

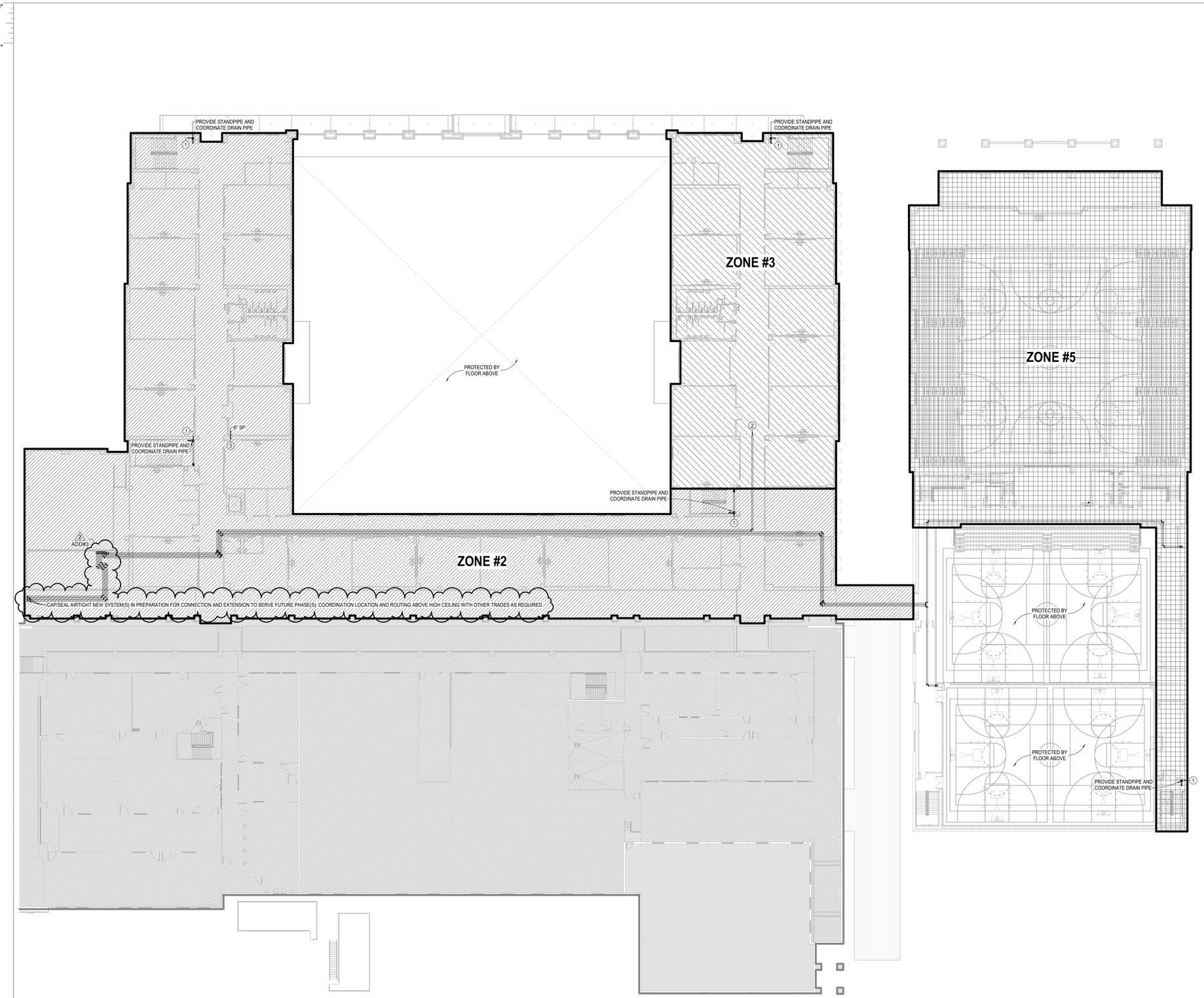
1ST FLOOR FIRE PROTECTION PLAN

PF-101

Plot Stamp:
12/16/2025 2:08:12 PM

2ND FLOOR FIRE PROTECTION PLAN
PF-102
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 2ND FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

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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

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KEYNOTES - PLUMBING PLAN

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2 6" FIRE LINE TO SERVE ZONE #3.

3 6" FIRE LINE UP.

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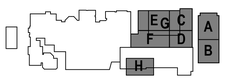
LEAF ENGINEERS

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
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CHECKED BY: SC
DRAWN BY: SC

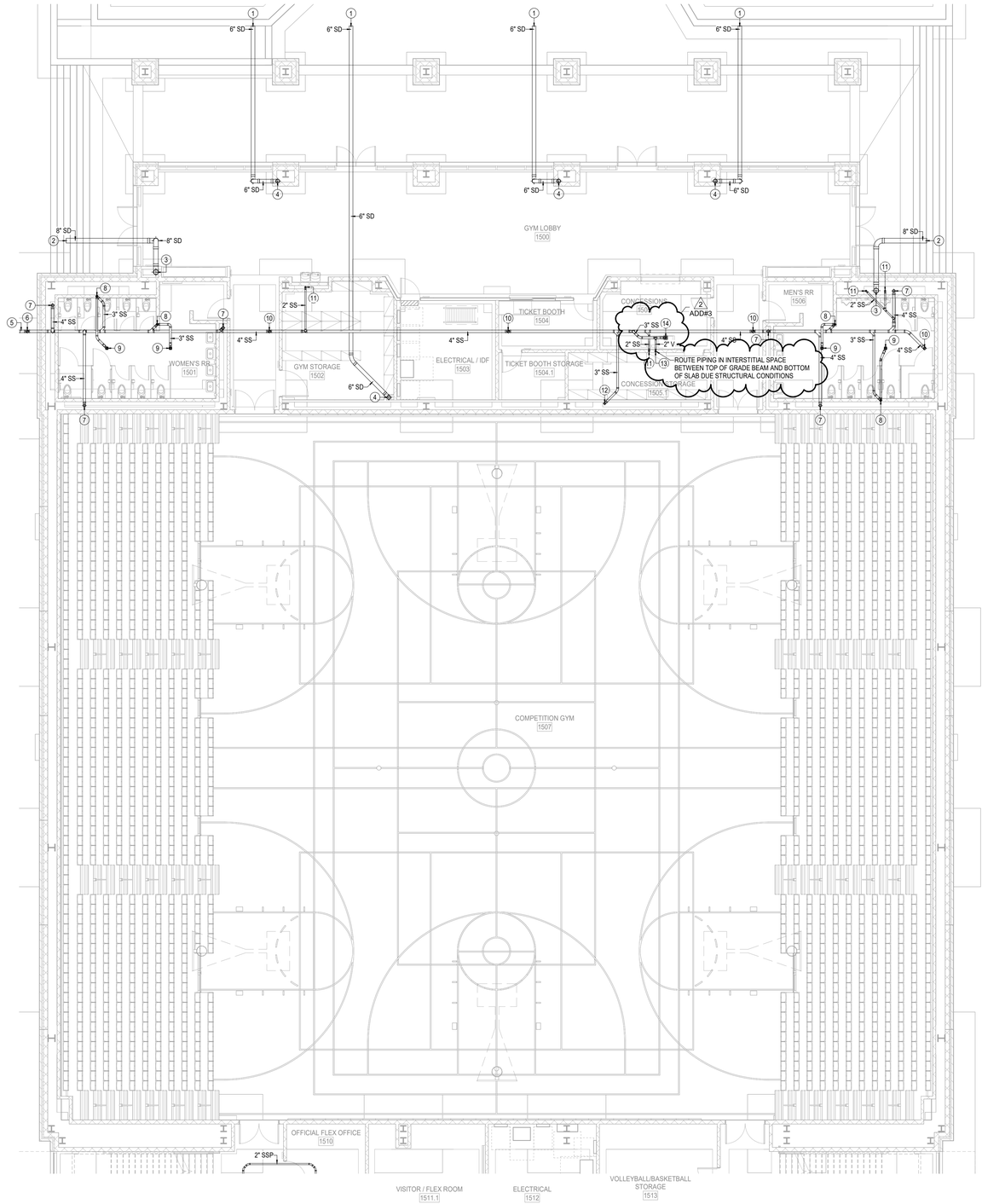
2ND FLOOR FIRE PROTECTION PLAN

PF-102

Plot Stamp:
12/16/2025 2:08:20 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.

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.

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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.

13 2" VENT UP.

14 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

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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
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CHECKED BY: SC
DRAWN BY: SC

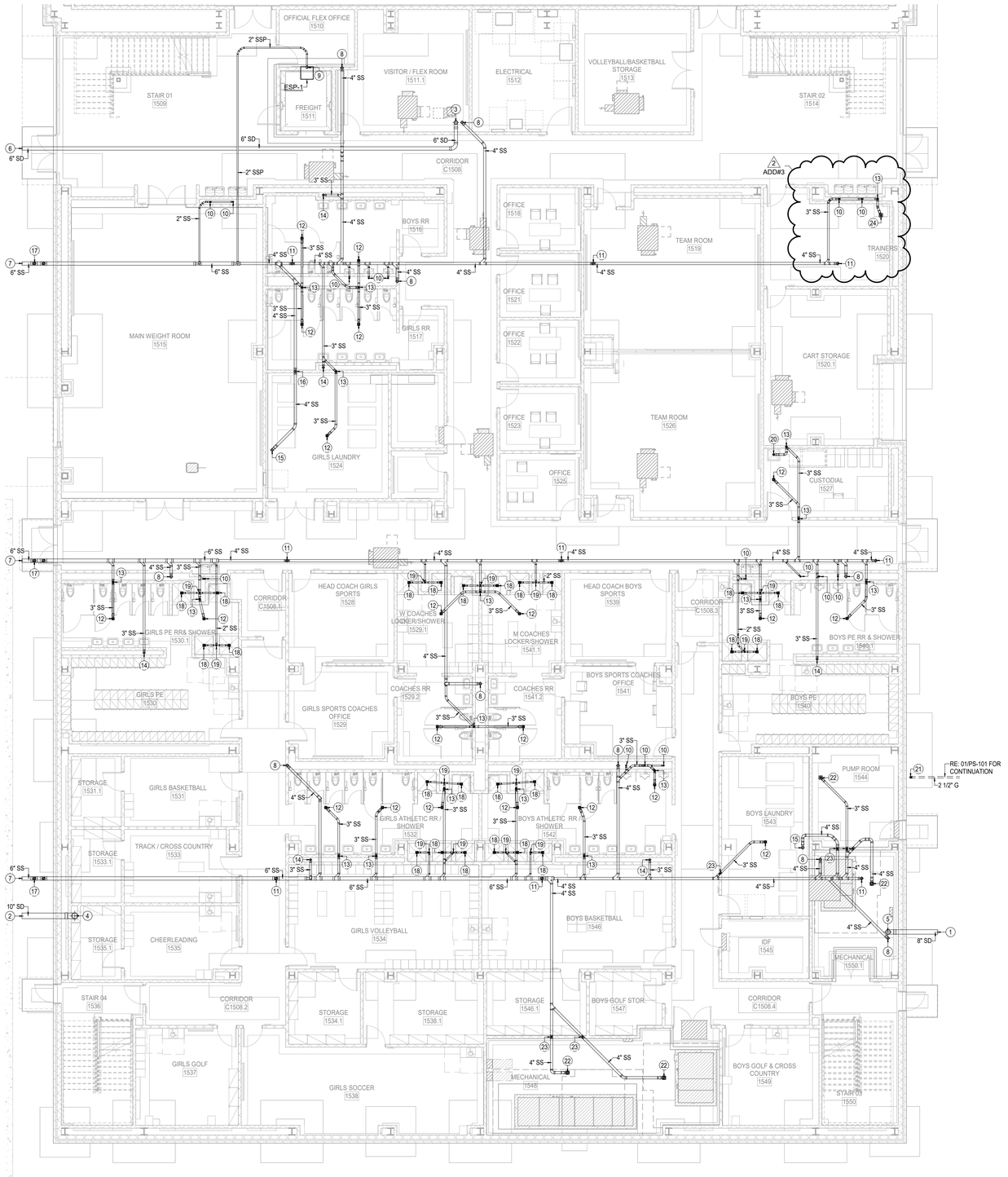
1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA A NEW GYM FLOOR PLAN

PU-101A

Plot Stamp:
12/16/2025 2:08:26 PM

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA B NEW GYM FLOOR PLAN
PU-101B
FOR BLUEBEAM LABELING/OCR:

0"
1"



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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.
24 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

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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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA B NEW GYM FLOOR PLAN

PU-101B

Plot Stamp:
12/16/2025 2:08:32 PM

0"

1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C 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 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 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

13 3" WASTE DOWN AND 2" VENT UP.

14 2" WASTE DOWN FROM ABOVE.

KEYNOTES - PLUMBING PLAN

15 4" WASTE DOWN AND 2" VENT UP.

16 4" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

17 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.

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.

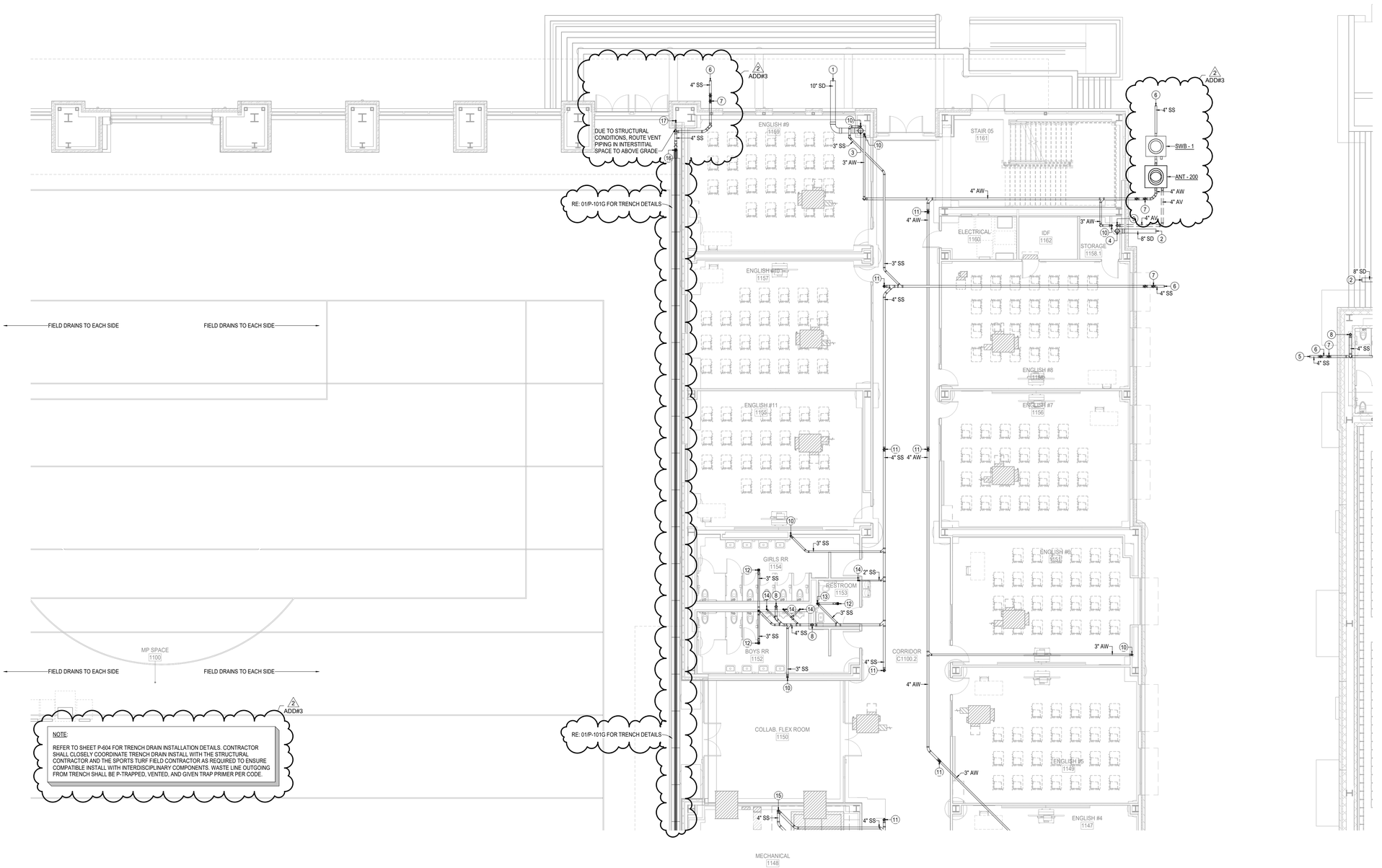
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/16/2025 2:08:37 PM

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LEAF ENGINEERS

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

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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
2	PACKAGE 3B - ADD 03	12/19/2025

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

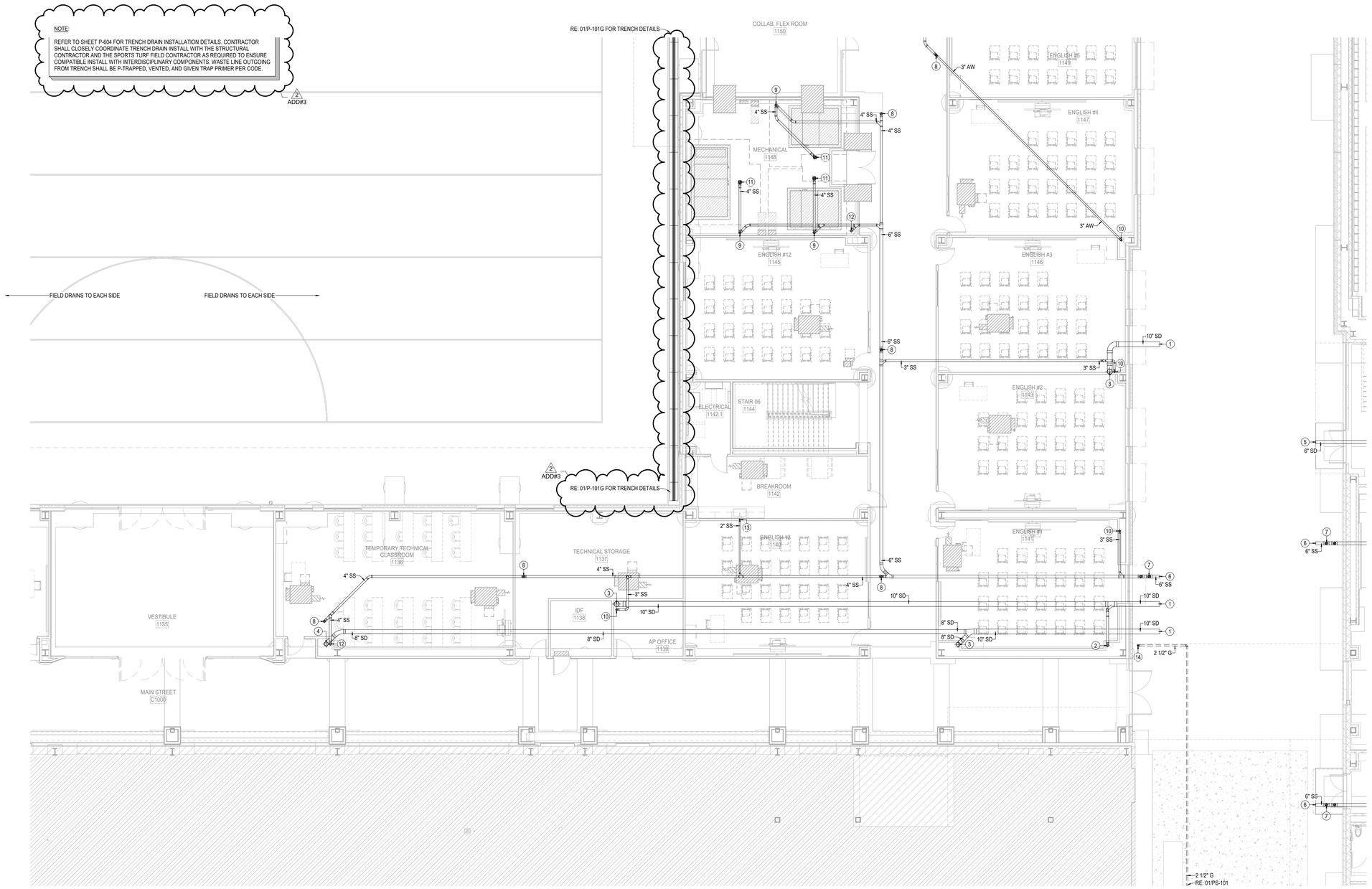
1 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
2 4" STORM PIPE DOWN FROM ABOVE.
3 10" STORM PIPE DOWN FROM ABOVE.
4 8" STORM PIPE DOWN FROM ABOVE.
5 6" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
6 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING 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.

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 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/16/2025 2:08:42 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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

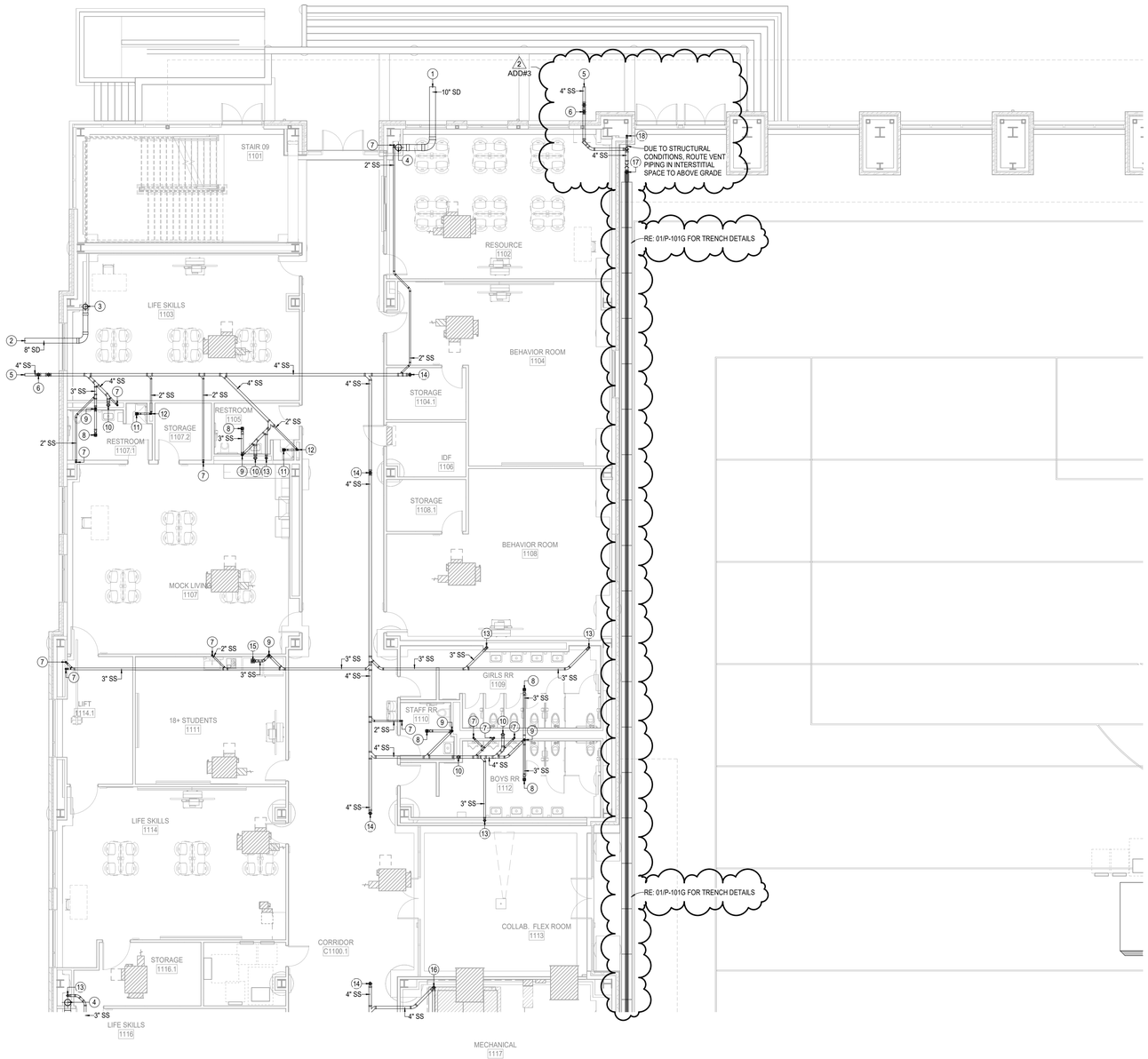
1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101D

0"
1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:
PU-101E



1 1ST FLOOR PLUMBING UNDERFLOOR 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.

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 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 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.

17 4" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

18 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

E

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101E

Plot Stamp:
12/16/2025 2:08:46 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.

8 4" WASTE DOWN AND 2" VENT UP.

9 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

10 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.

11 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

12 4" WASTE DOWN FROM ABOVE.

13 2" WASTE DOWN FROM ABOVE.

14 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

KEYNOTES - PLUMBING PLAN

15 3" WASTE DOWN AND 2" VENT UP.

16 3" WASTE DOWN FROM ABOVE.

17 2" WASTE (PUMPED) FROM BELOW FLOOR ELEVATOR SUMP PUMP (ESP).

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.

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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

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

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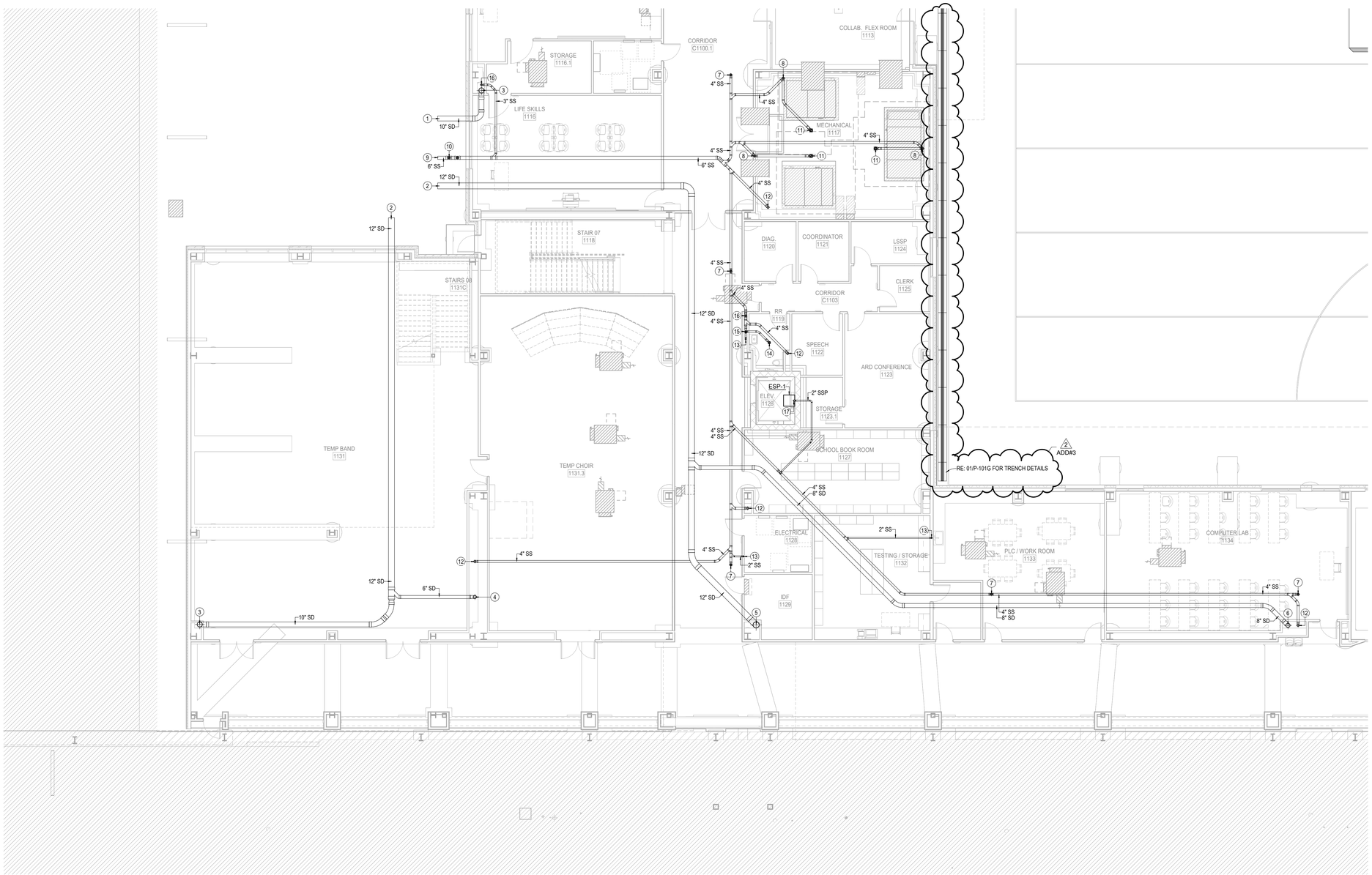
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M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

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.



1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/16/2025 2:08:49 PM

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LEAF ENGINEERS

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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
SURVEY

December 5, 2025
LEAF ENGINEERS
F-18672

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

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

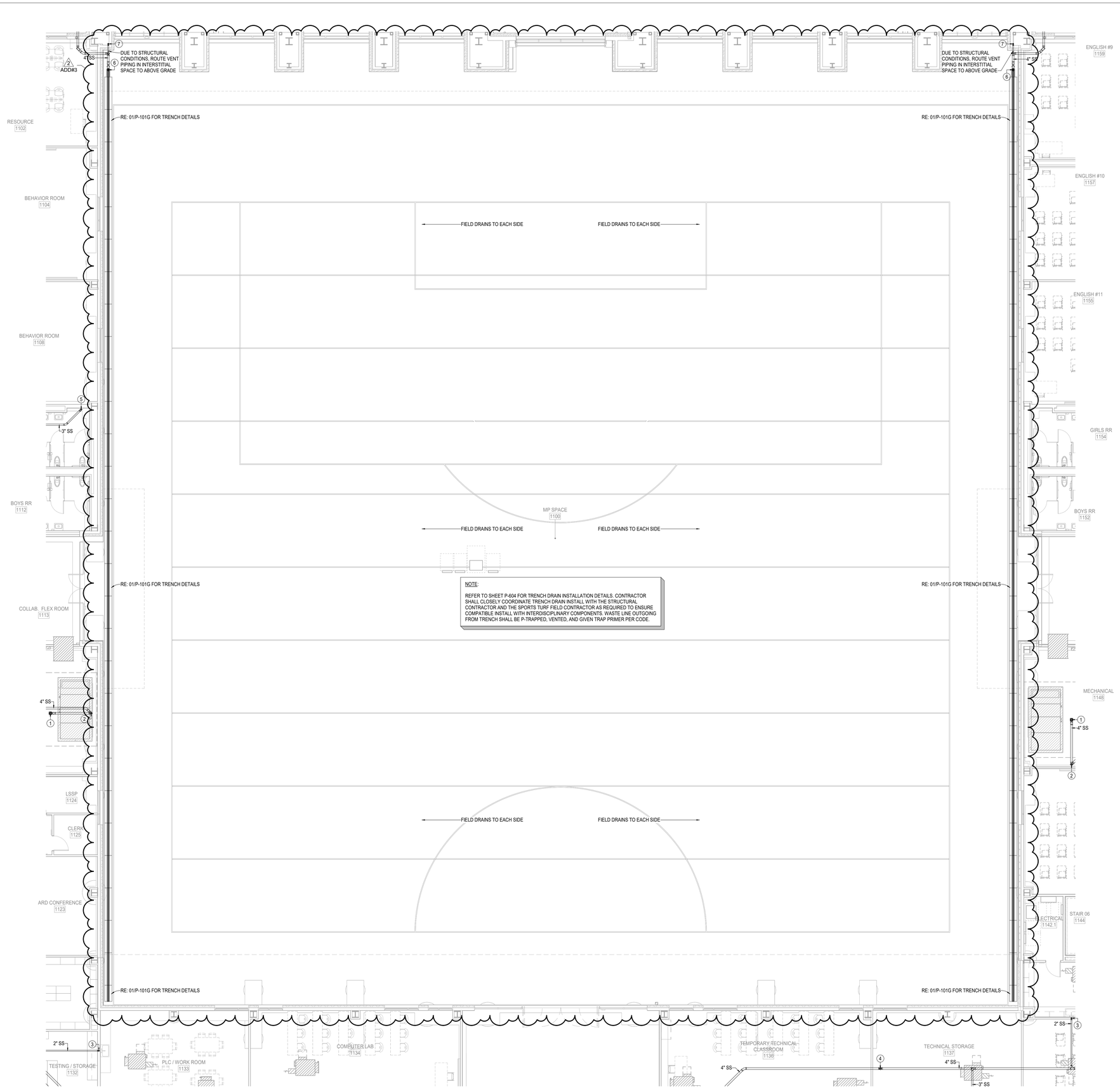
CHECKED BY: SC

DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101F

0"
1"



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.

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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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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.

6 4" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

7 2" VENT UP.

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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



December 5, 2025
LEAF ENGINEERS
F-18672

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

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101G

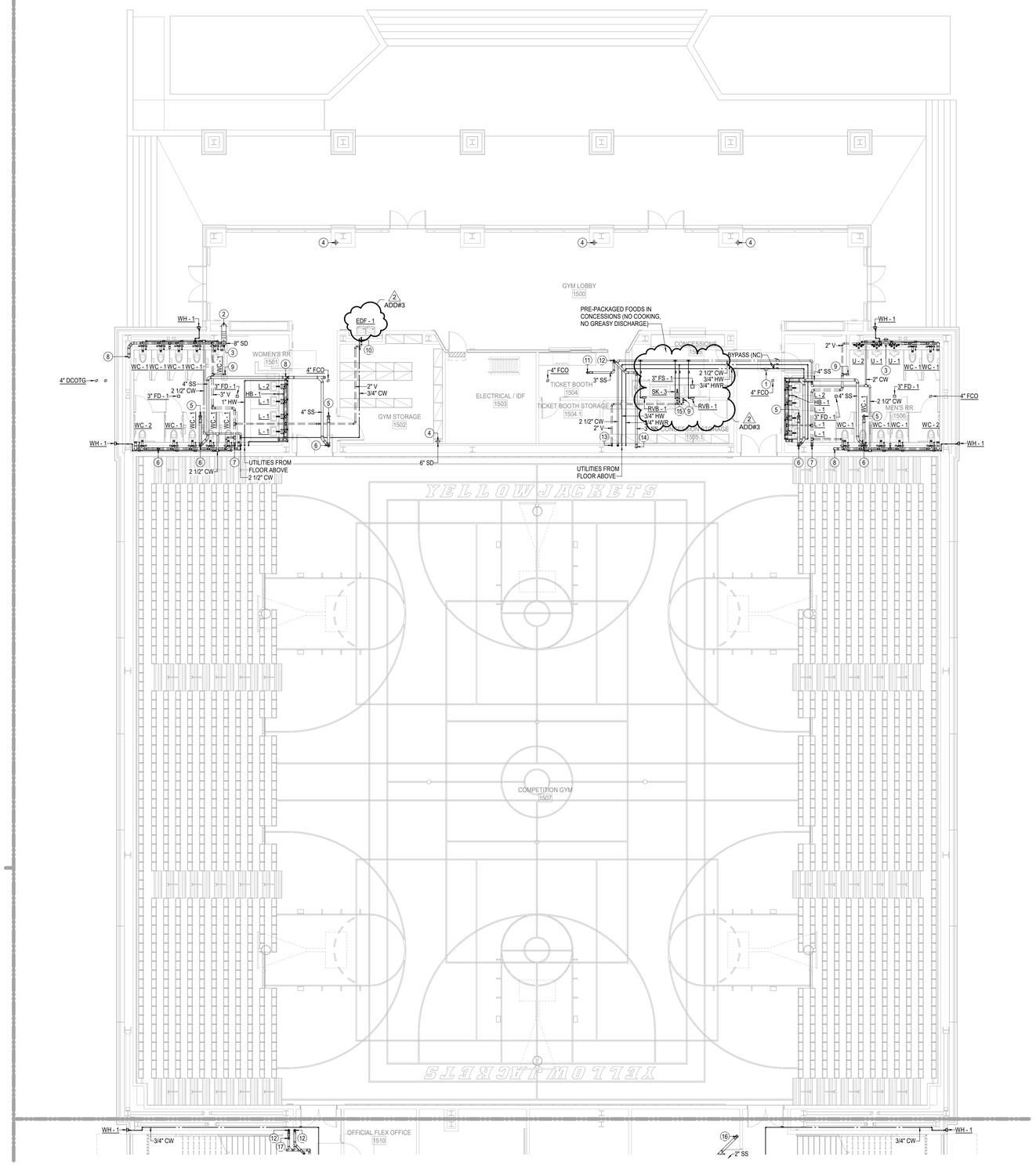
1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
12/16/2025 2:08:52 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
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.

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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.

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P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

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.

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16 4" WASTE DOWN FROM ABOVE.

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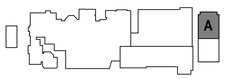
LEAF ENGINEERS

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

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

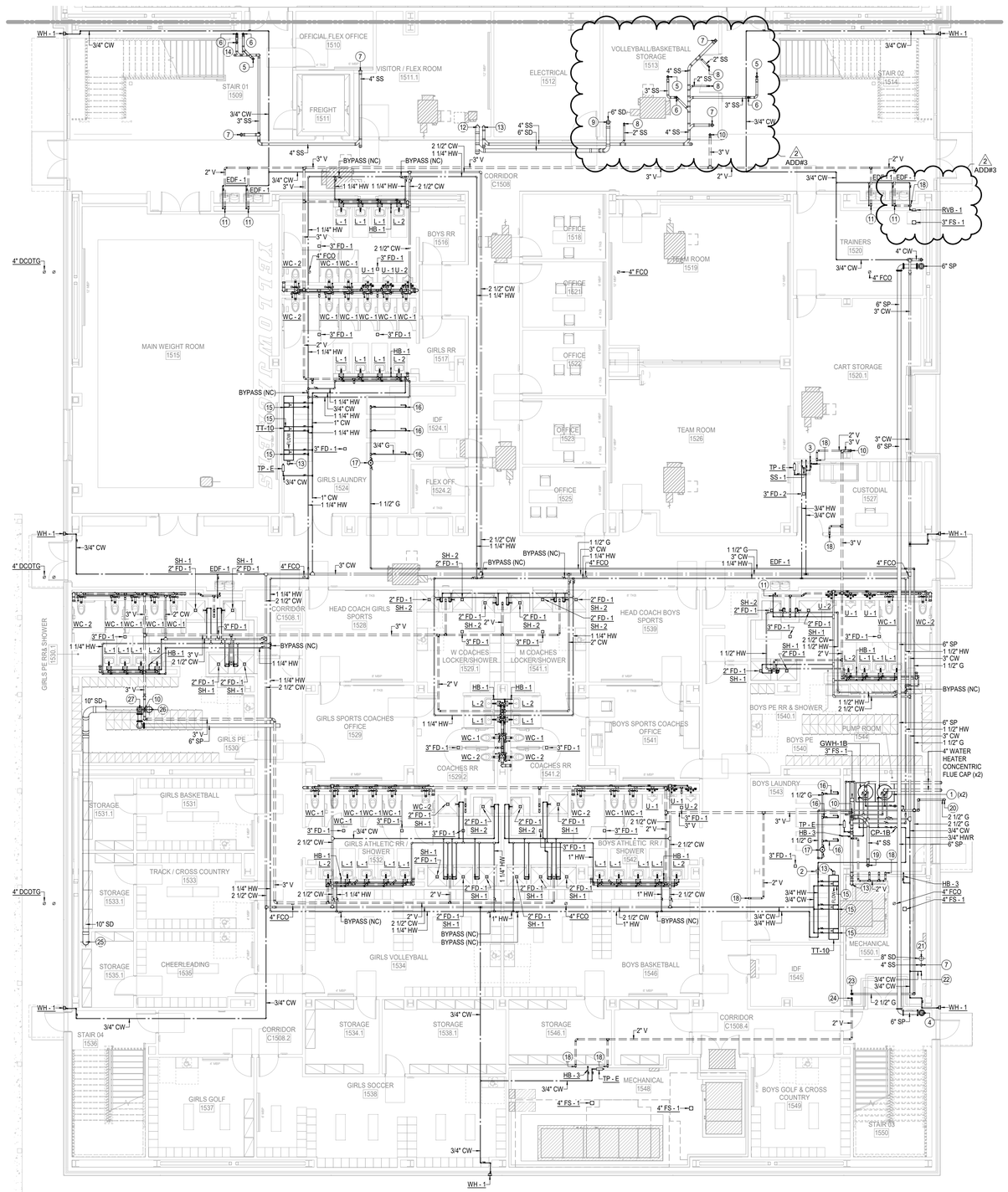
1ST FLOOR PLUMBING PLAN - AREA A NEW GYM FLOOR PLAN

P-101A

Plot Stamp:
12/16/2025 2:08:57 PM

0"
1"

1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-101B
FOR BLUEBEAM LABELING/DOCR:



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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.

1 1ST 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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN

P-101B

0"
1"

1ST FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101C

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

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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" VENT UP.

11 3" WASTE DOWN AND 2" VENT UP.

KEYNOTES - PLUMBING PLAN

12 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

13 2" WASTE DOWN FROM ABOVE.

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.

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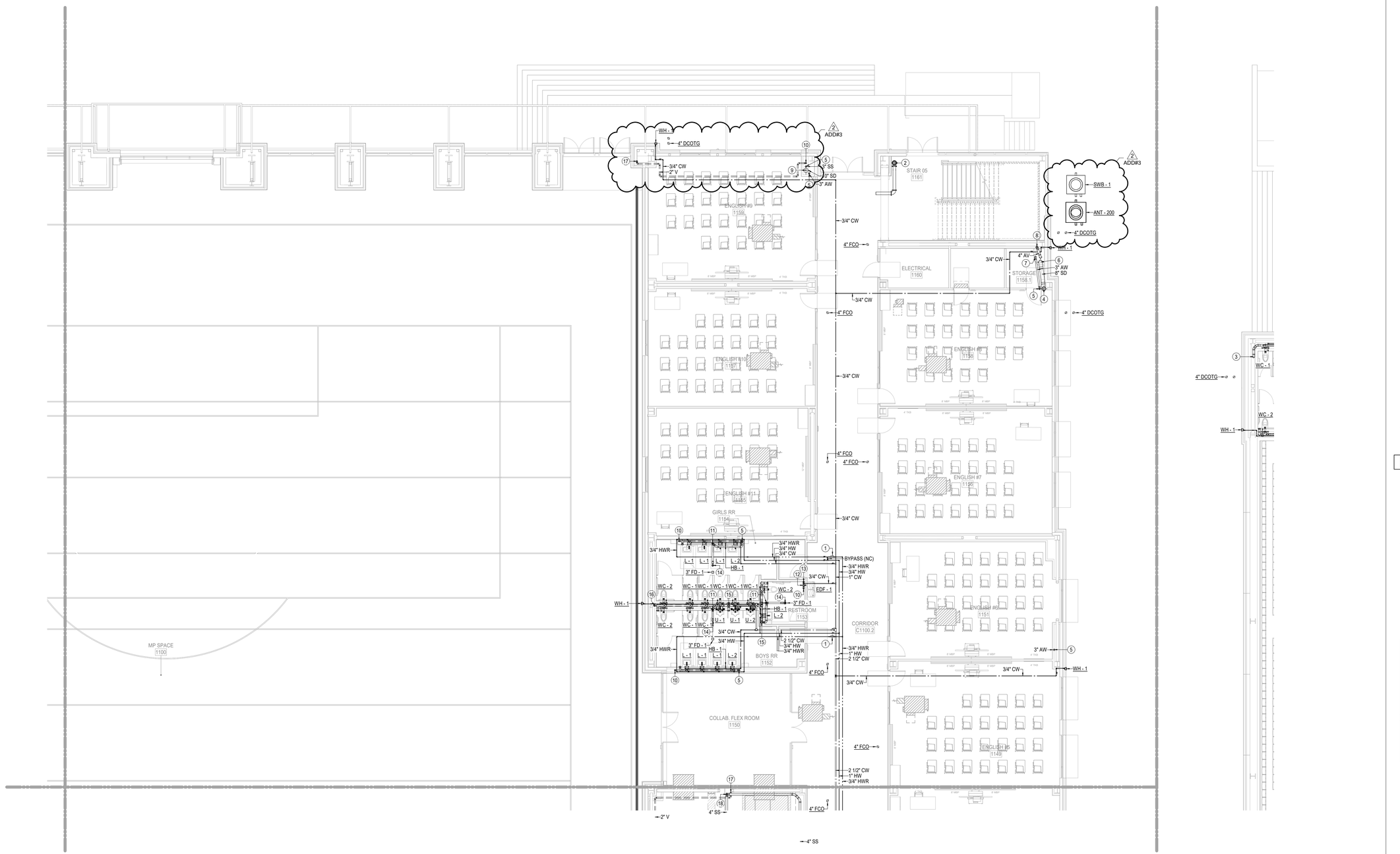
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1 1ST FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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

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
2	PACKAGE 3B - ADD 03	12/19/2025

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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3 2" VENT UP FROM BELOW.

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5 2" VENT UP.

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7 3" WASTE DOWN FROM ABOVE.

8 3" WASTE DOWN.

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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.

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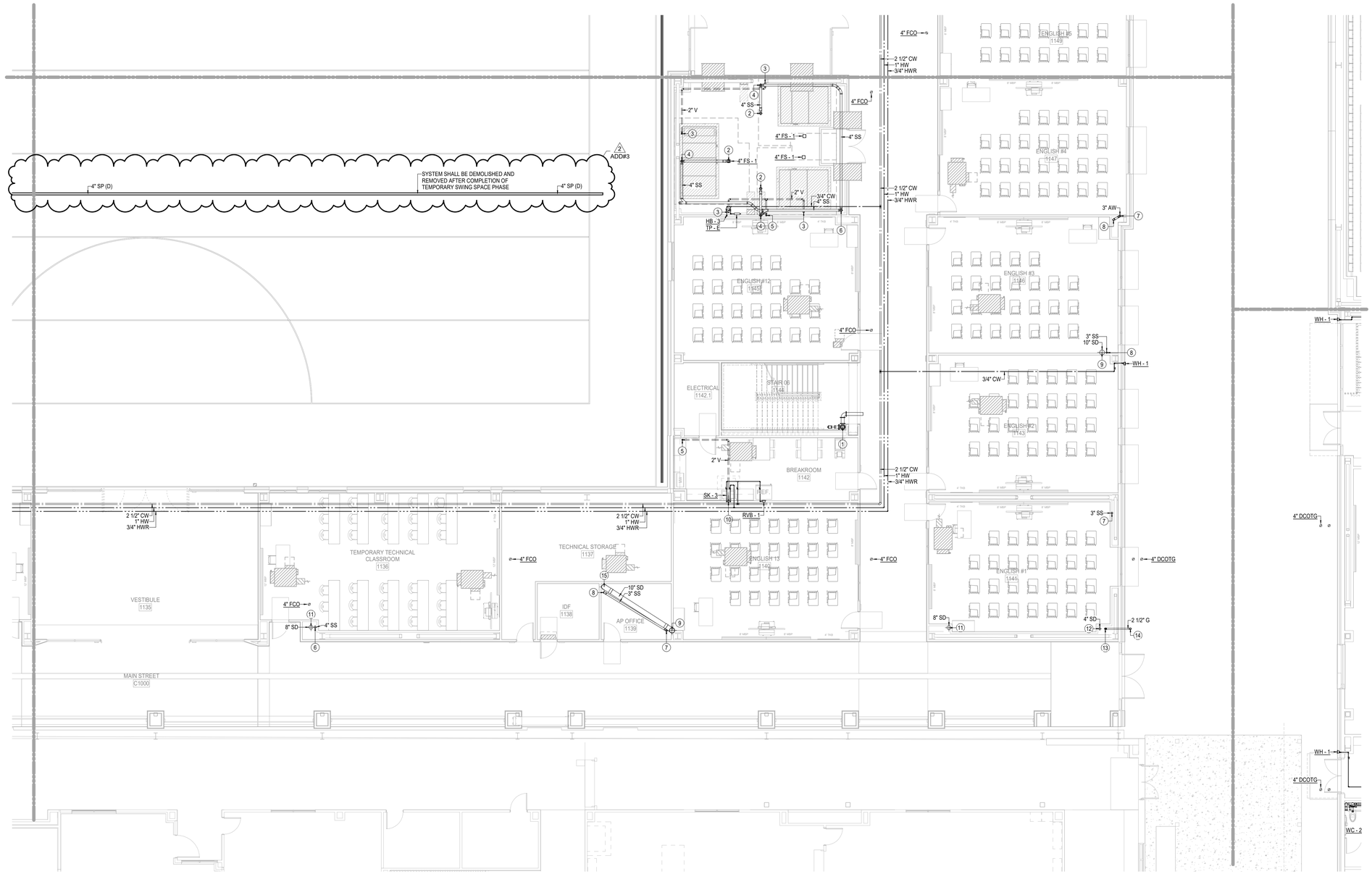
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HOUSTON, TX
713-366-0608

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
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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CHECKED BY: SC

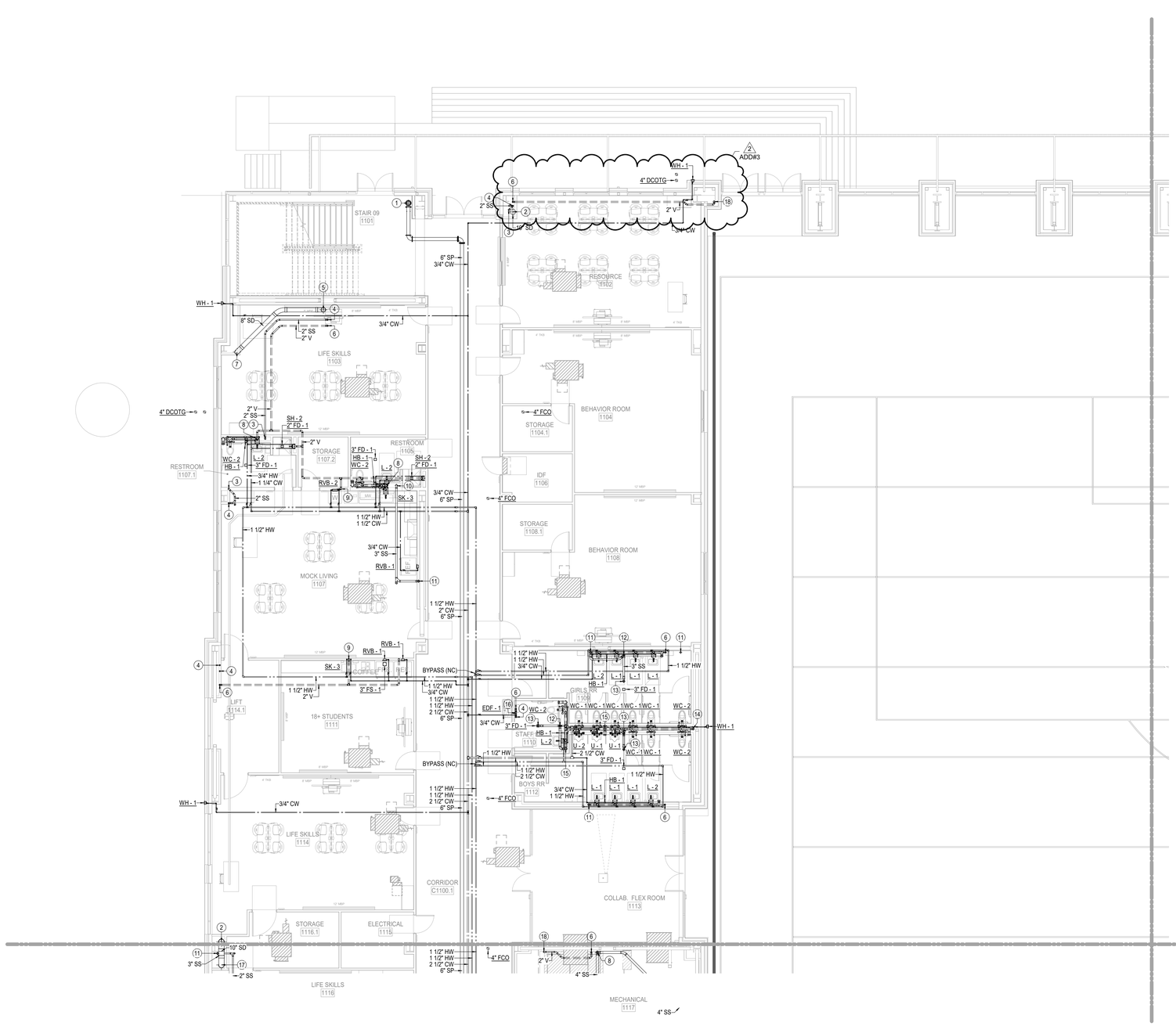
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101D

1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-101E
FOR BLUEBEAM LABELING/OCR:

0"
1"



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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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713.366.0808

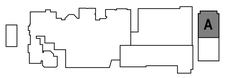
LEAF ENGINEERS

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101E

Plot Stamp:
12/16/2025 2:09:18 PM

0"
1"

1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101F

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 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

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.

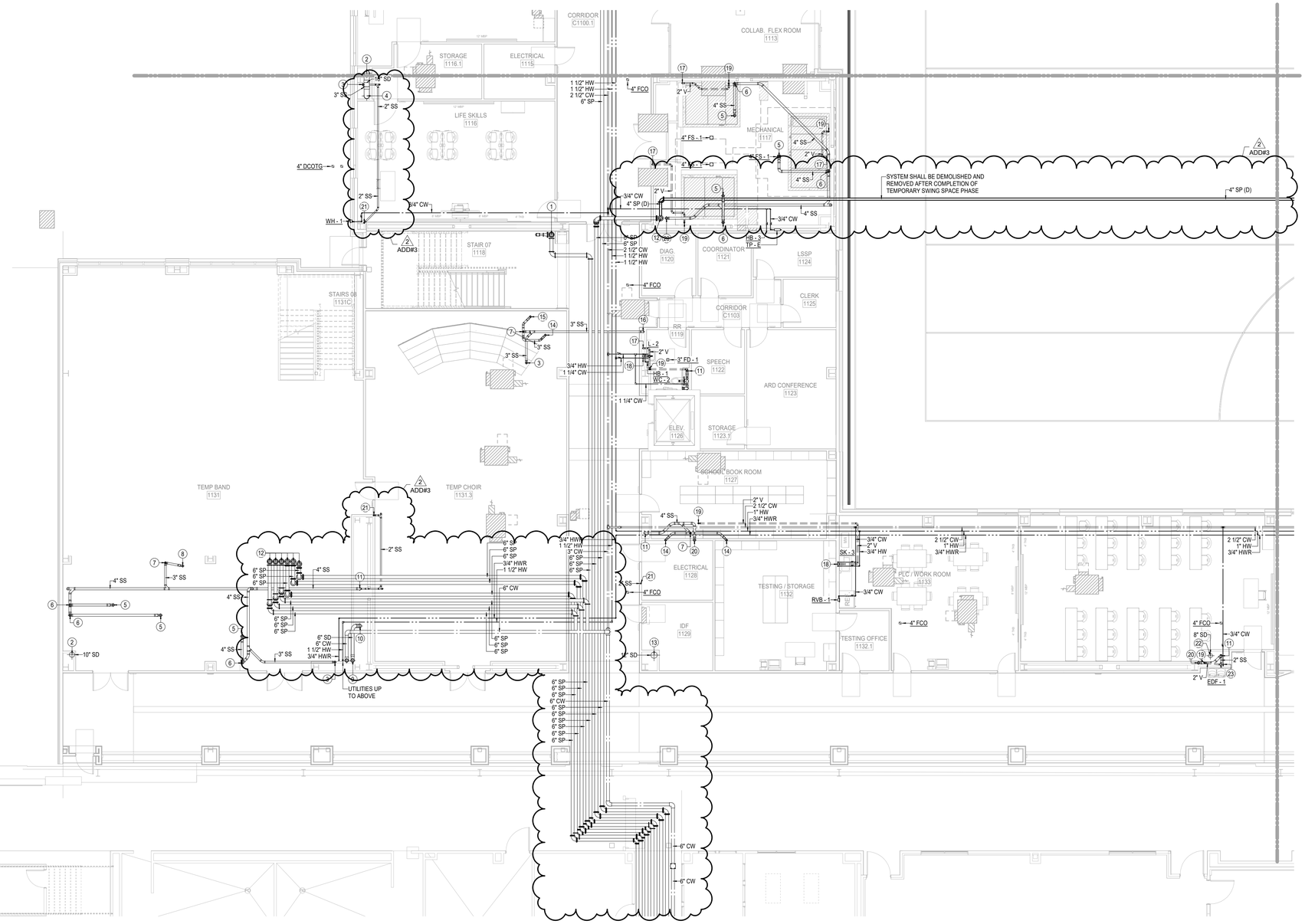
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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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 1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
12/16/2025 2:09:22 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

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
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CHECKED BY: SC
DRAWN BY: SC

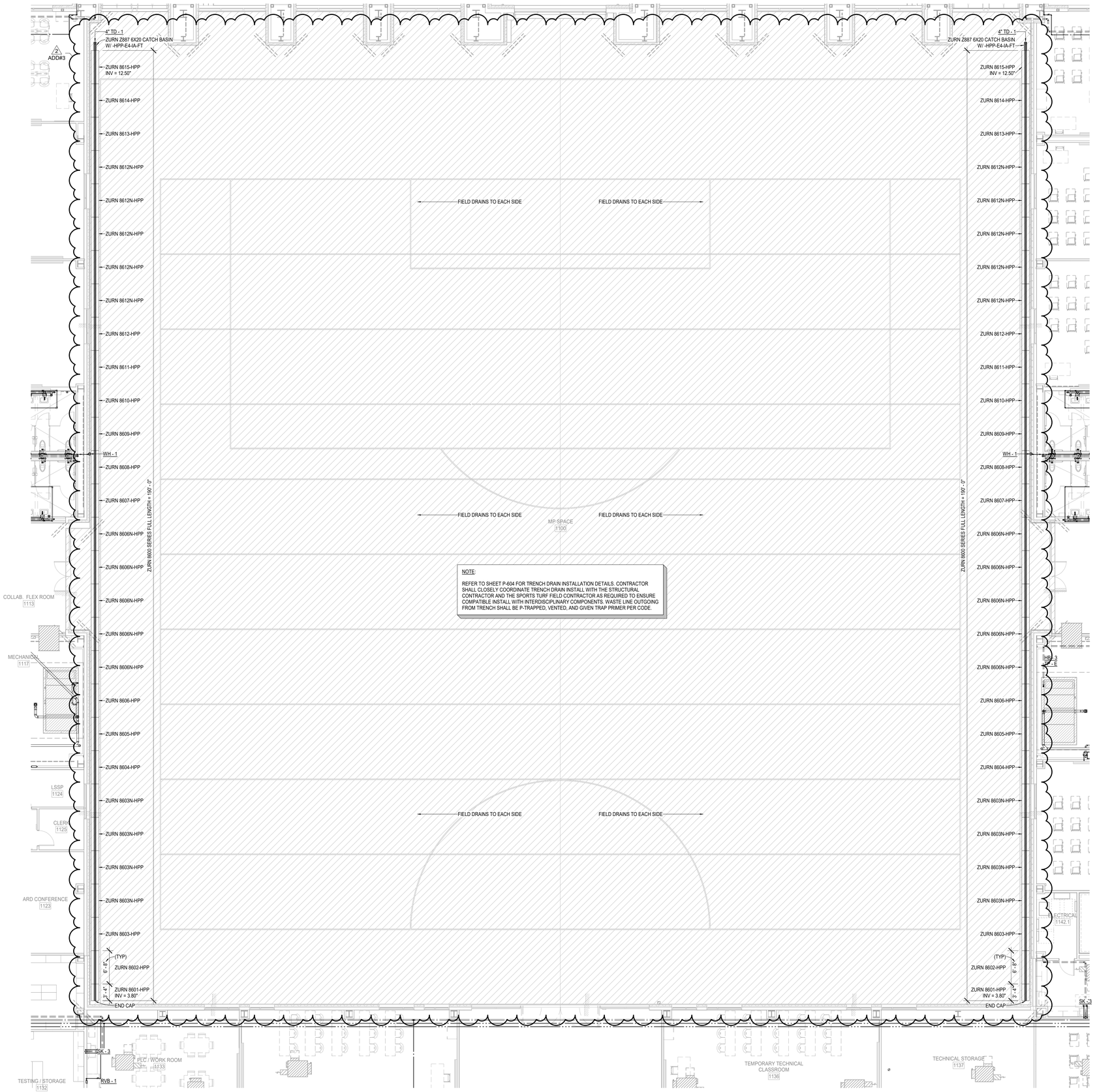
1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101F

1ST FLOOR PLUMBING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101G

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR PLUMBING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

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KEYNOTES - PLUMBING PLAN

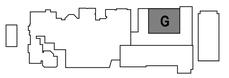
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TX FIRM: BR 1608
HOUSTON, TX
713-366-0608
LEAF ENGINEERS

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
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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

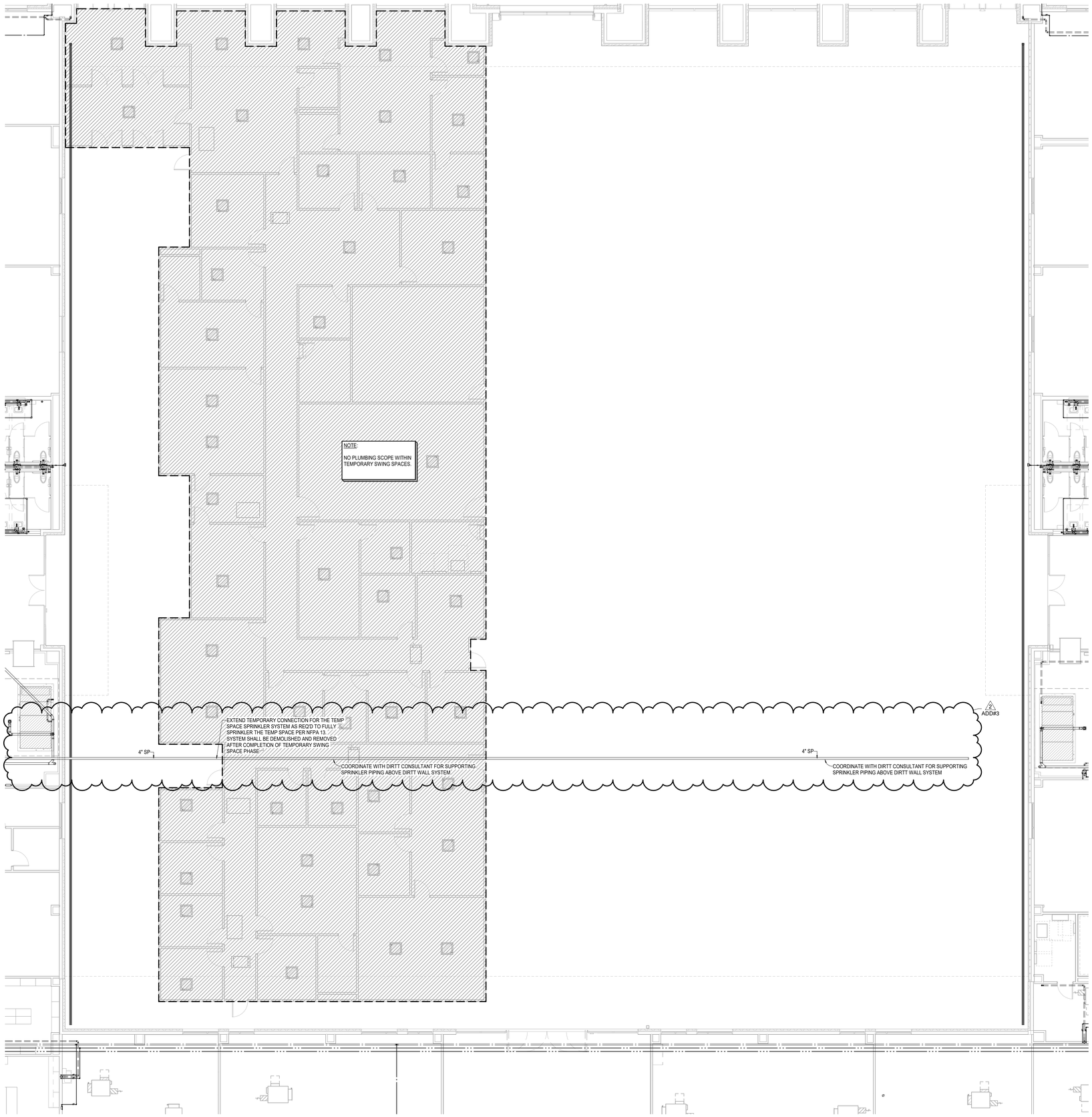
1ST FLOOR PLUMBING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101G

Plot Stamp:
12/16/2025 2:09:25 PM

1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES
P-101GT
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES
1/8" = 1'-0"

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KEYNOTES - PLUMBING PLAN

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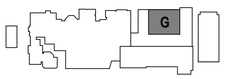
LEAF ENGINEERS

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

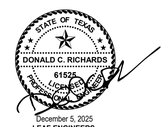
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-19672

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

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

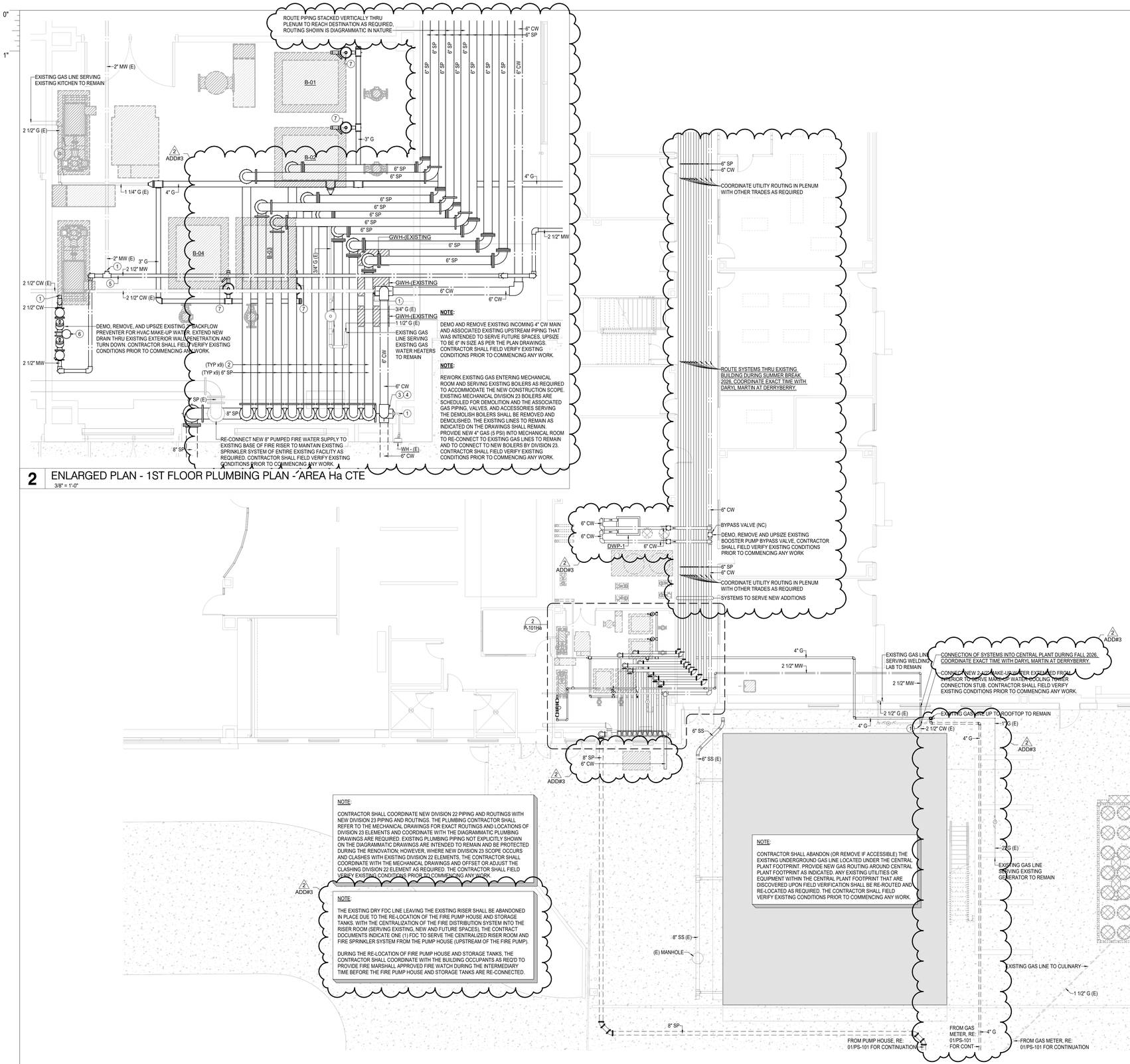
CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES

P-101GT

Plot Stamp:
12/16/2025 2:09:28 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"

1 1ST FLOOR PLUMBING PLAN - AREA Ha CTE
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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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.

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P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 CONNECT NEW WATER LINE TO EXISTING.

2 NEW DEDICATED WET FIRE SPRINKLER SYSTEM TO SPRINKLER ZONE.

3 INCOMING 6" 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 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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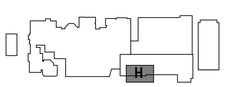
LEAF ENGINEERS

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

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2	PACKAGE 3B - ADD 03	12/19/2025

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DRAWN BY: SC

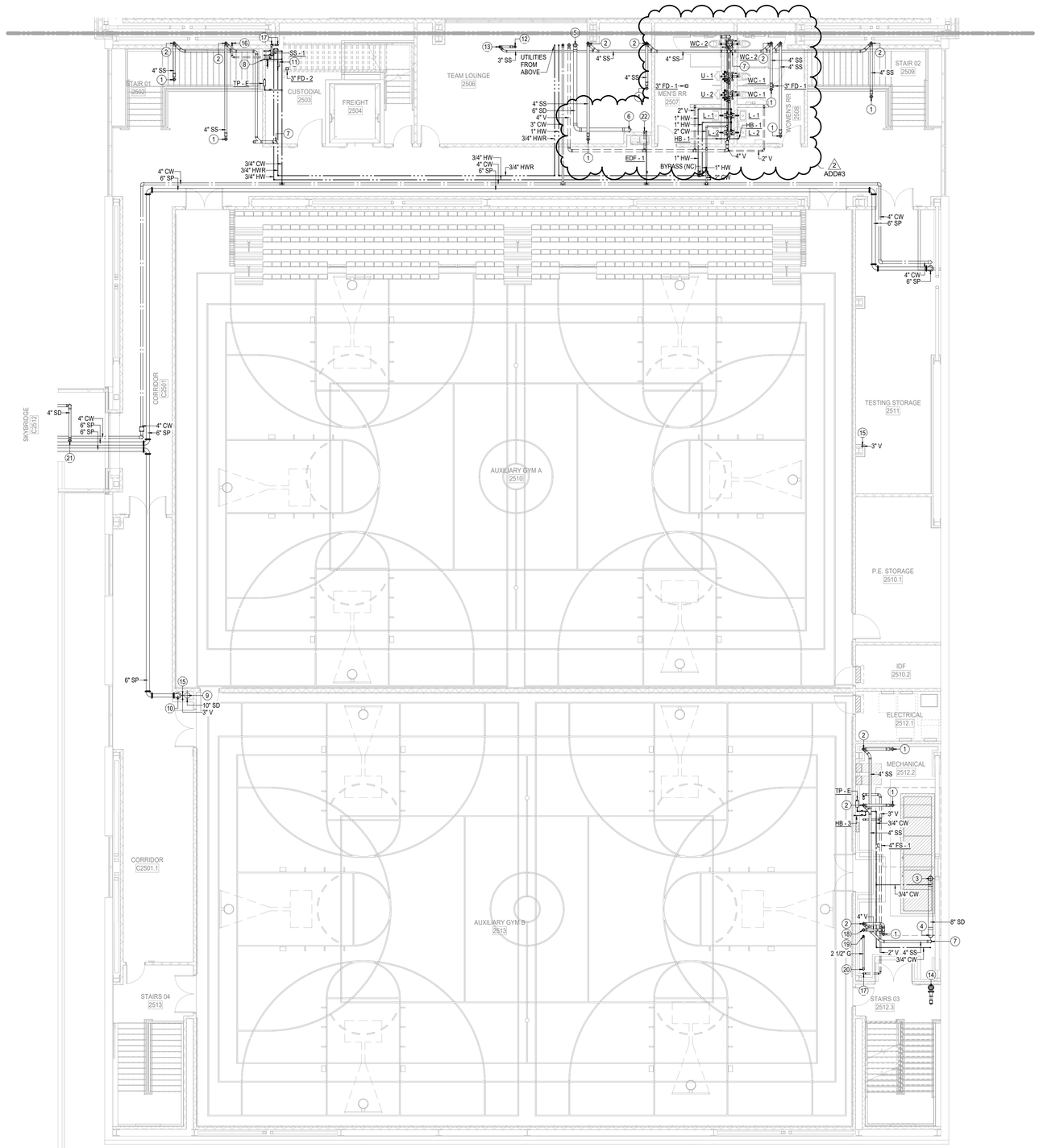
1ST FLOOR PLUMBING PLAN - AREA H CTE

P-101Ha

Plot Stamp:
12/16/2025 4:33:41 PM

0"
1"

2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-102B
FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

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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 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.

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.

22 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

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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
61552
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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN

P-102B

Plot Stamp:
12/16/2025 2:09:37 PM

0"
1"

FOR BLUEBEAM LABELING/OCR:

2ND FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102C

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 FROM ABOVE.

10 8" STORM PIPE DOWN FROM ABOVE.

11 4" VENT UP.

12 3" VENT UP.

KEYNOTES - PLUMBING PLAN

13 4" WASTE DOWN FROM ABOVE.

14 3" WASTE DOWN FROM ABOVE.

15 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

16 2" VENT UP.

17 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.

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.

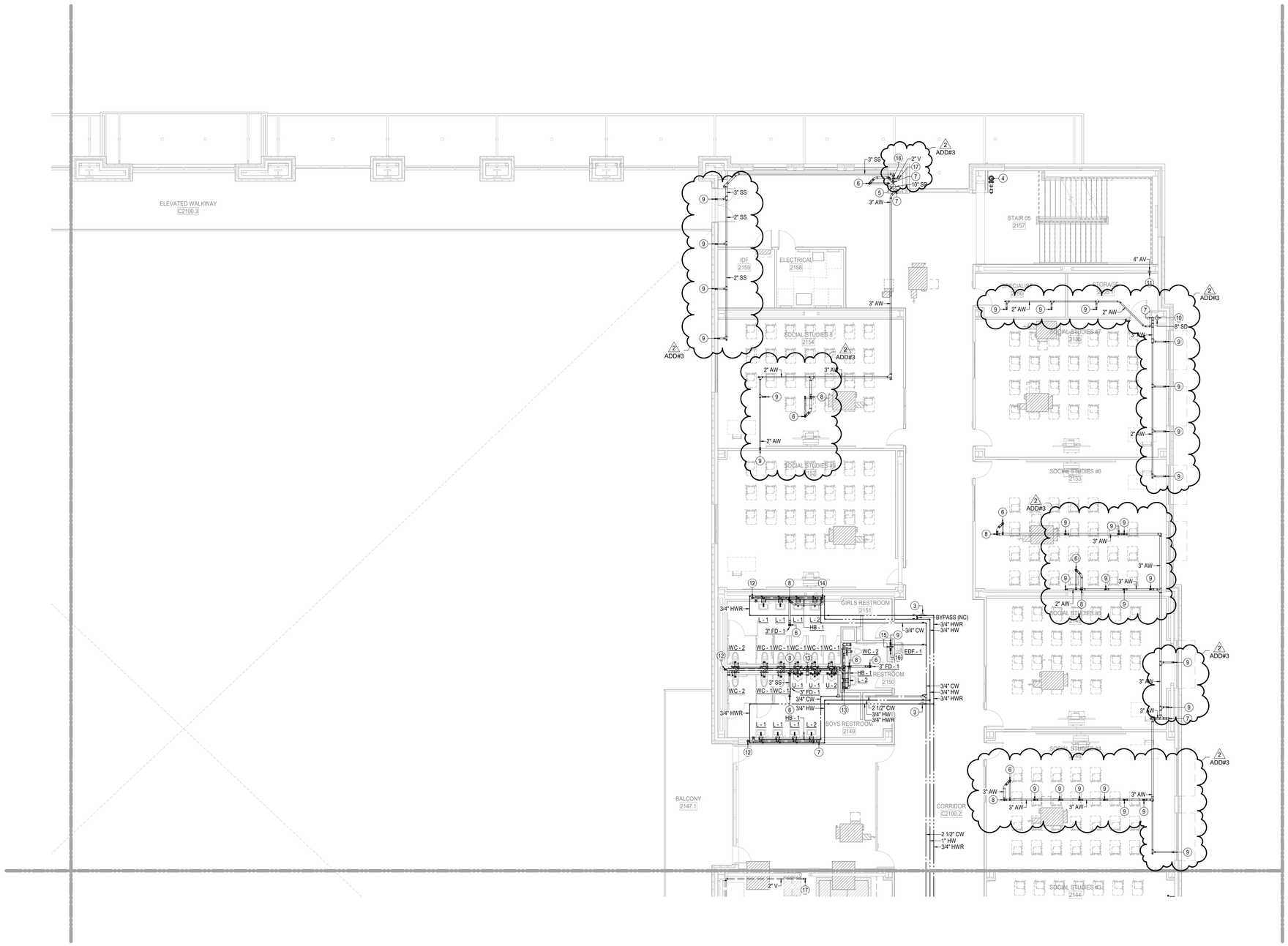
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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 C 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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC

DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102C

0"
1"

2ND FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-102D

FOR BLUEBEAM LABELING/OCR:

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.

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.

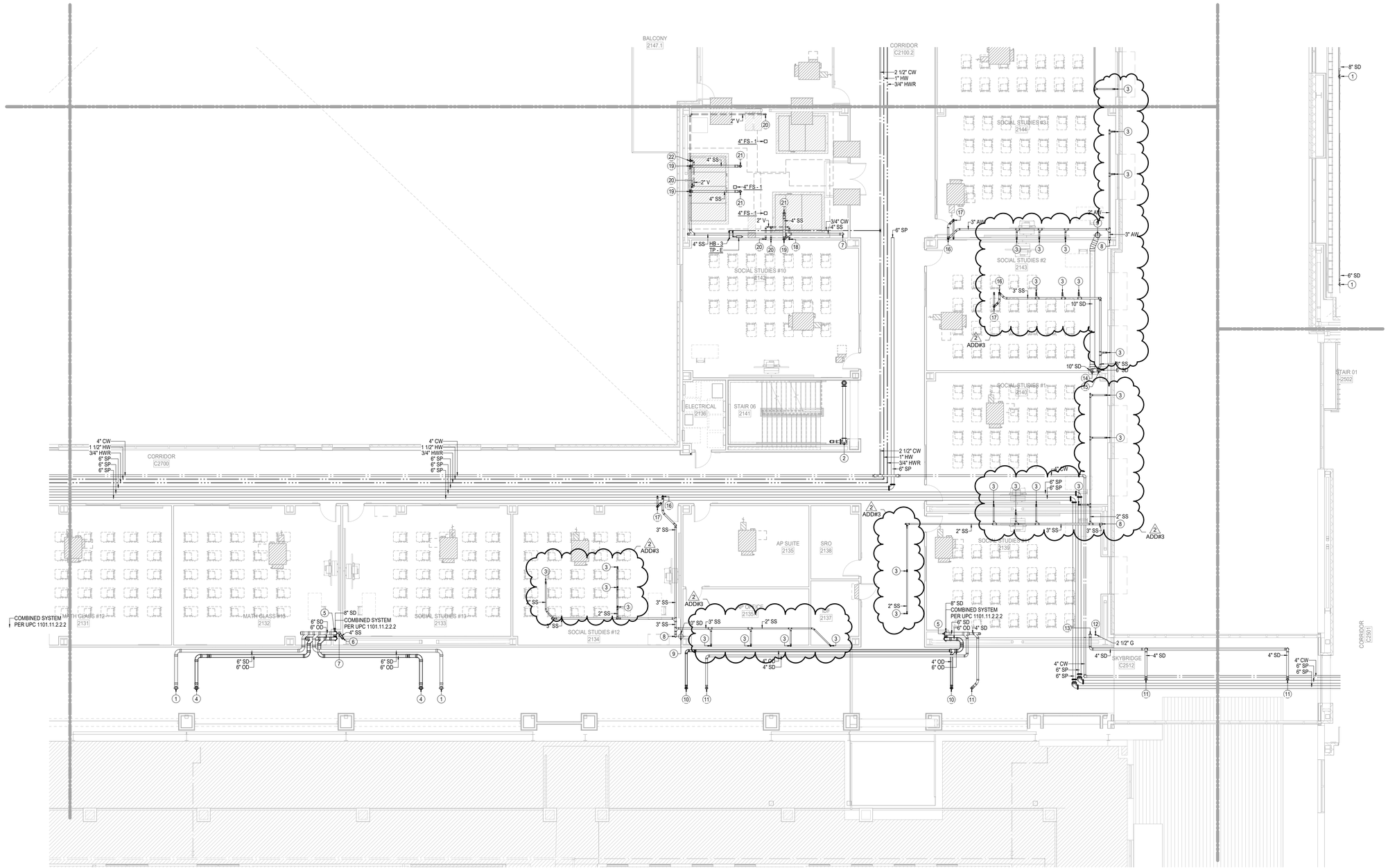
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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 D 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

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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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

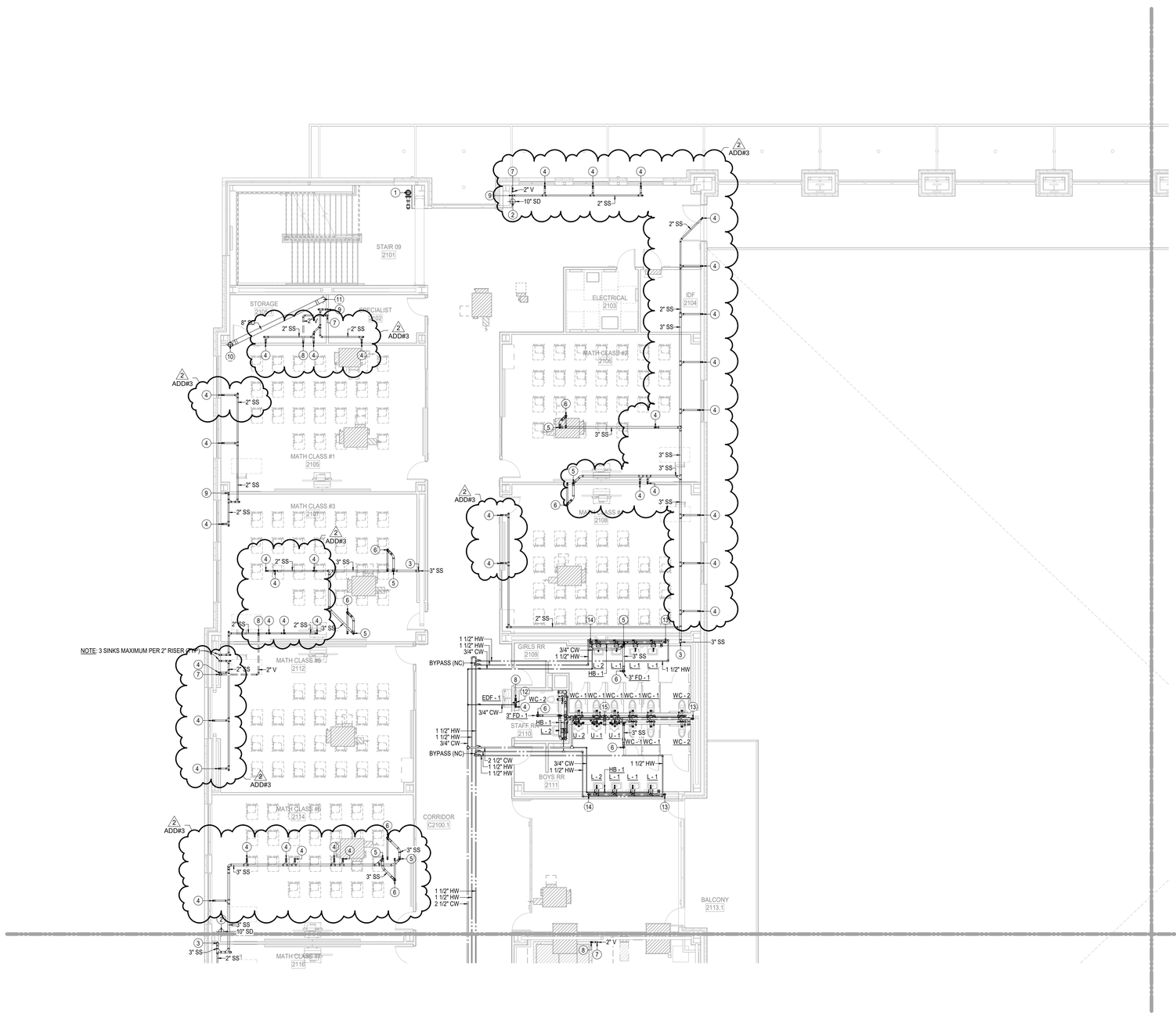
P-102D

0"
1"

2ND FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102E

FOR BLUEBEAM LABELING/OCR:



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 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.

1 2ND FLOOR PLUMBING 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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102E

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.

27 2" 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.

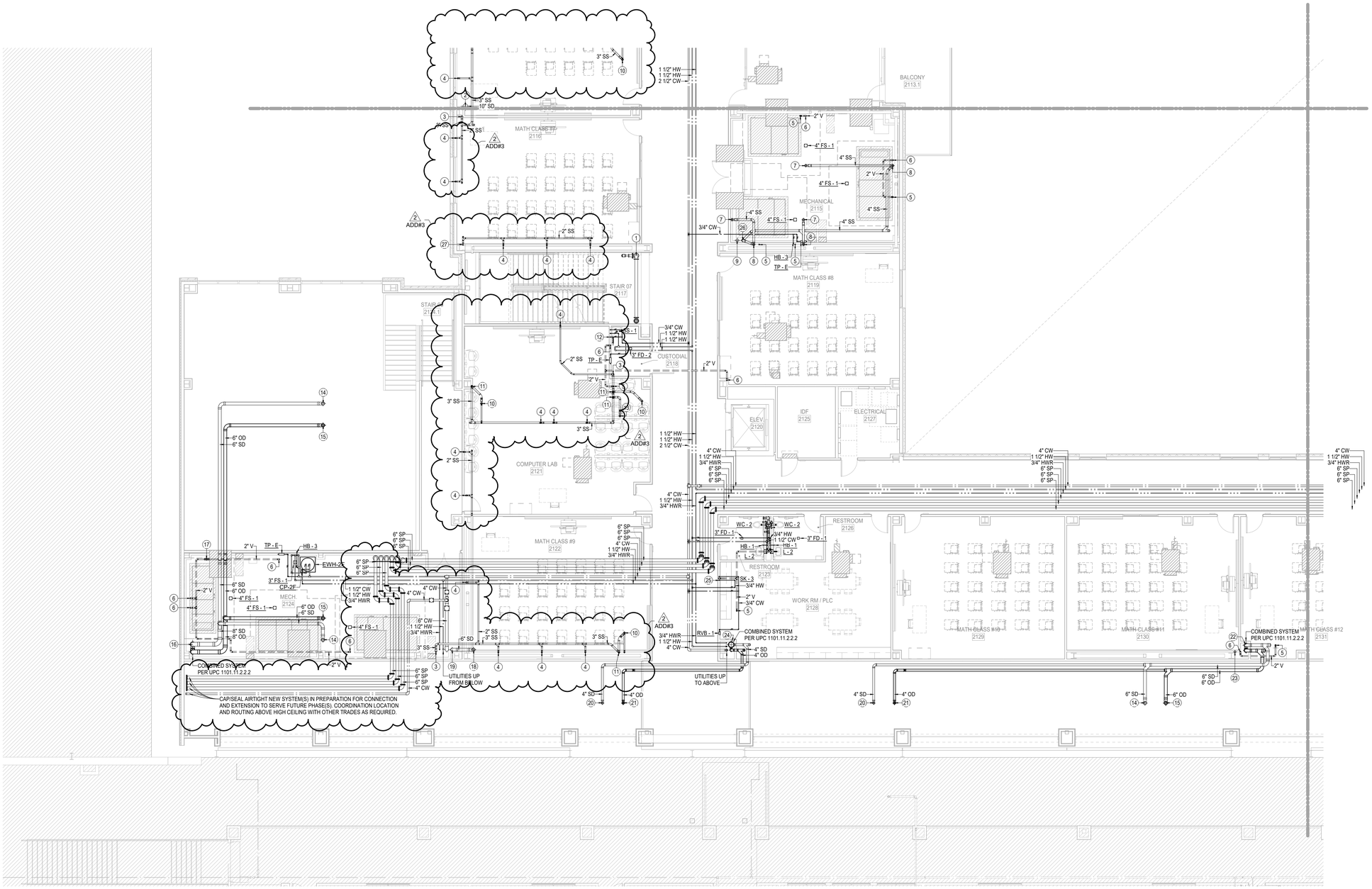
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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"

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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
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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-102F

0"
1"

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.

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.

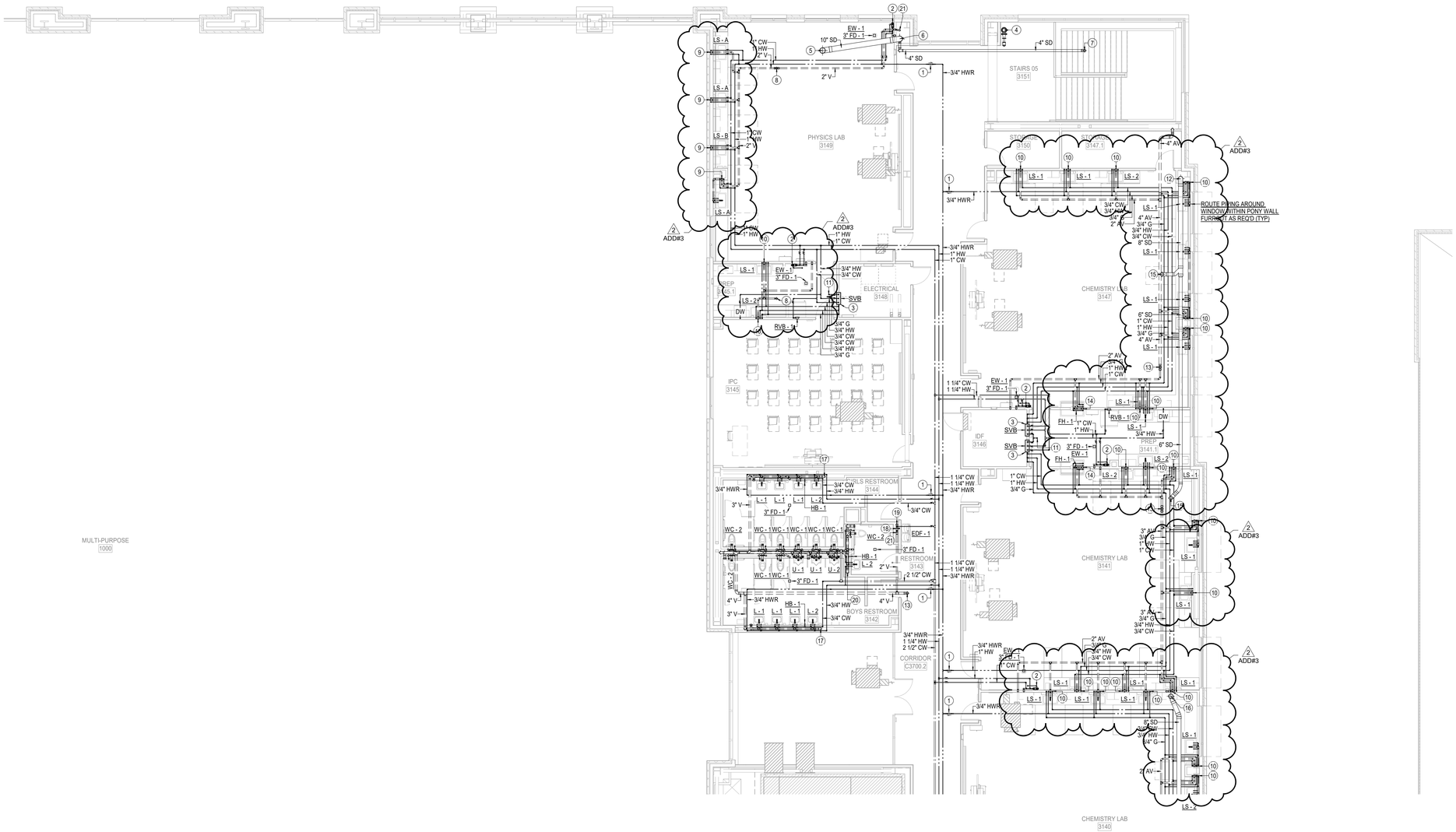
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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 3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

3RD FLOOR PLUMBING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
P-103C
FOR BLUEBEAM LABELING/DOCR:

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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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
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"-14" 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 2" VENT UP FROM BELOW.

KEYNOTES - PLUMBING PLAN

20 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 "288" 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.

21 3/4" GAS UP.

22 3" VENT THRU ROOF.

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.

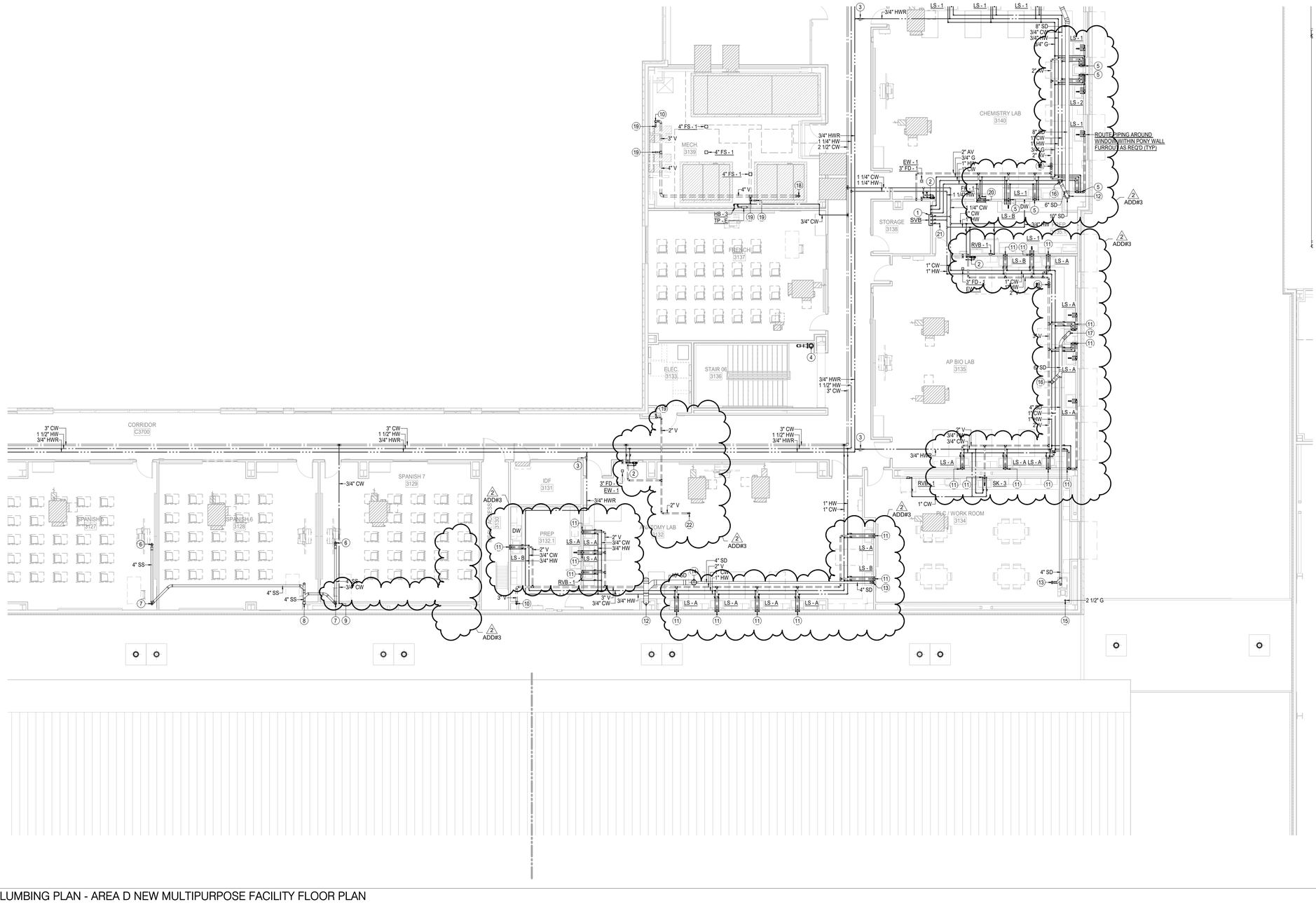
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O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 3RD FLOOR PLUMBING PLAN - AREA D 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

D

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

3RD FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

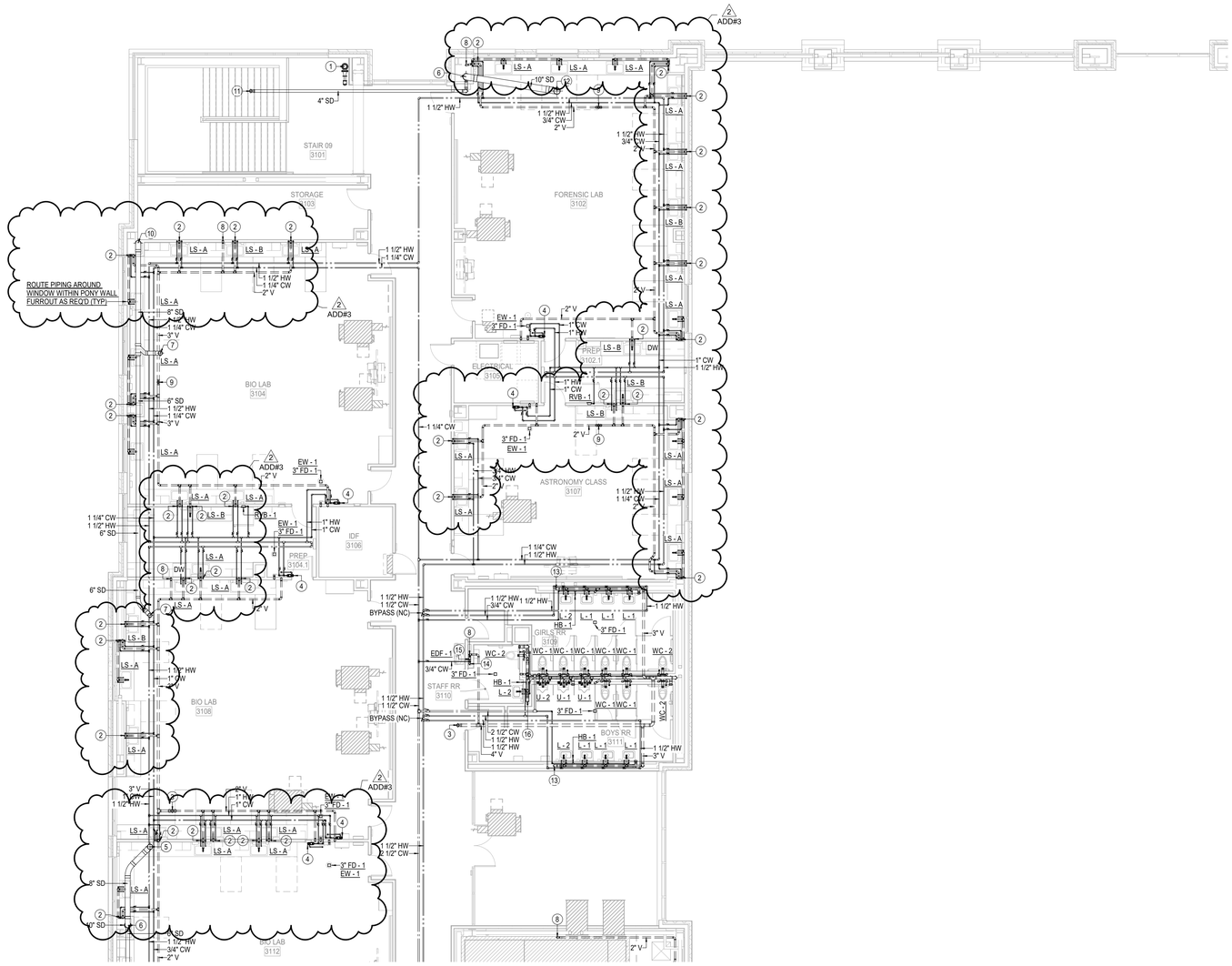
P-103D

0"
1"

3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103E

FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

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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.

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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.

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

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Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61535
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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC

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3RD FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103E

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0"
1"

3RD FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-103F

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 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.

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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GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

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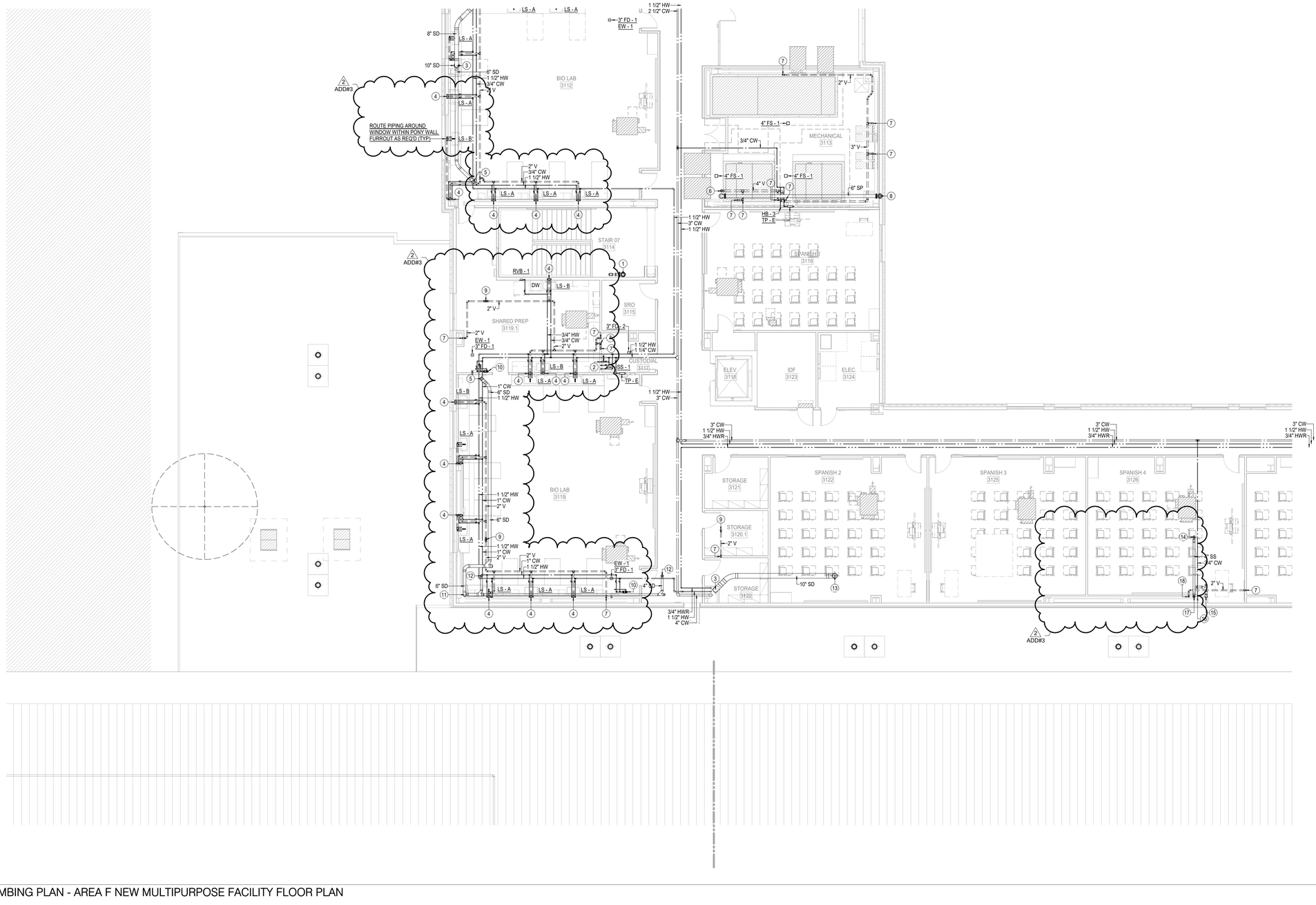
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1/8" = 1'-0"

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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

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
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DRAWING HISTORY

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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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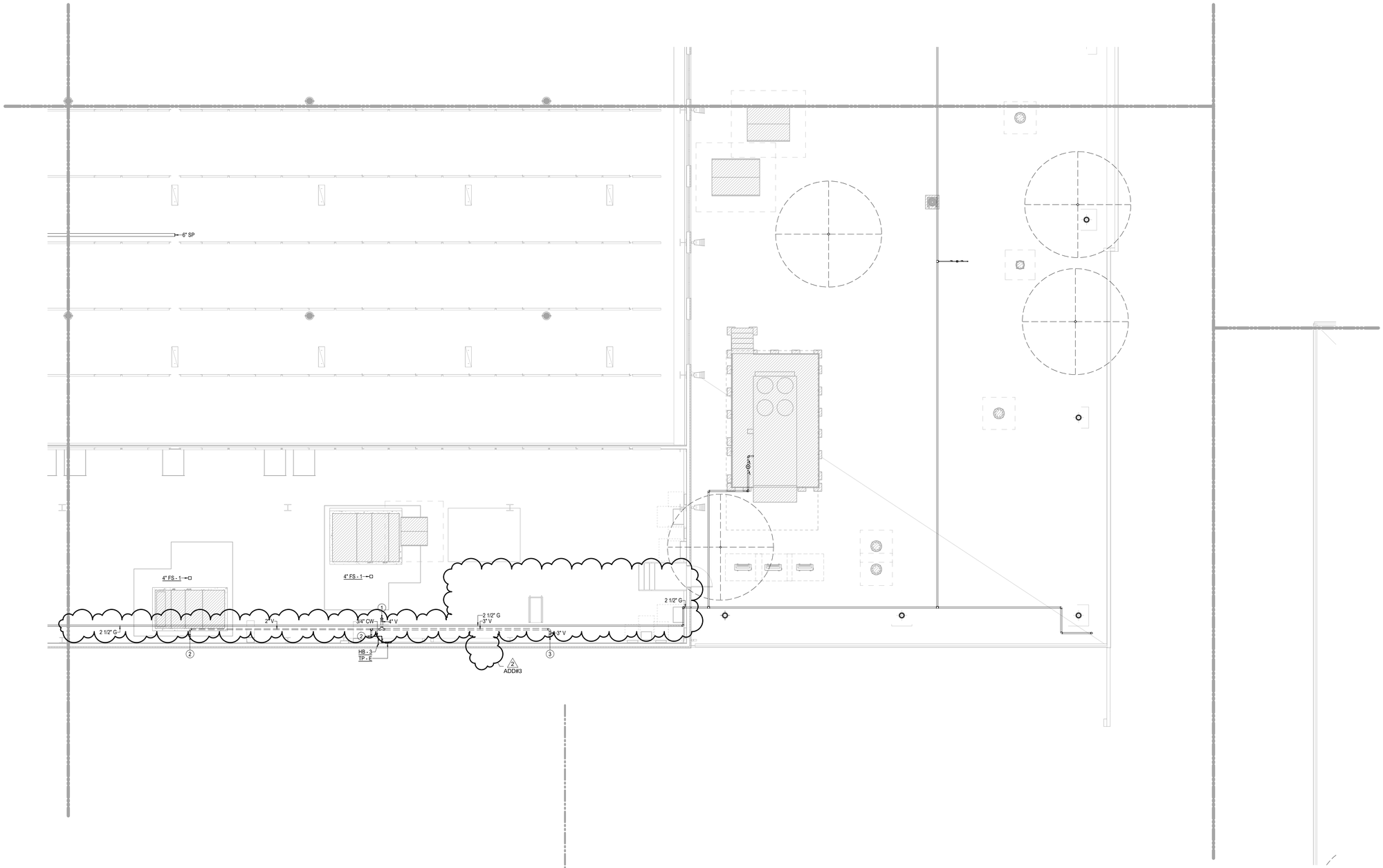
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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 MEZZANINE - PLUMBING PLAN - AREA D
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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC

DRAWN BY: SC

MEZZANINE PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-104D

Plot Stamp:
12/16/2025 2:10:19 PM

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.

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.

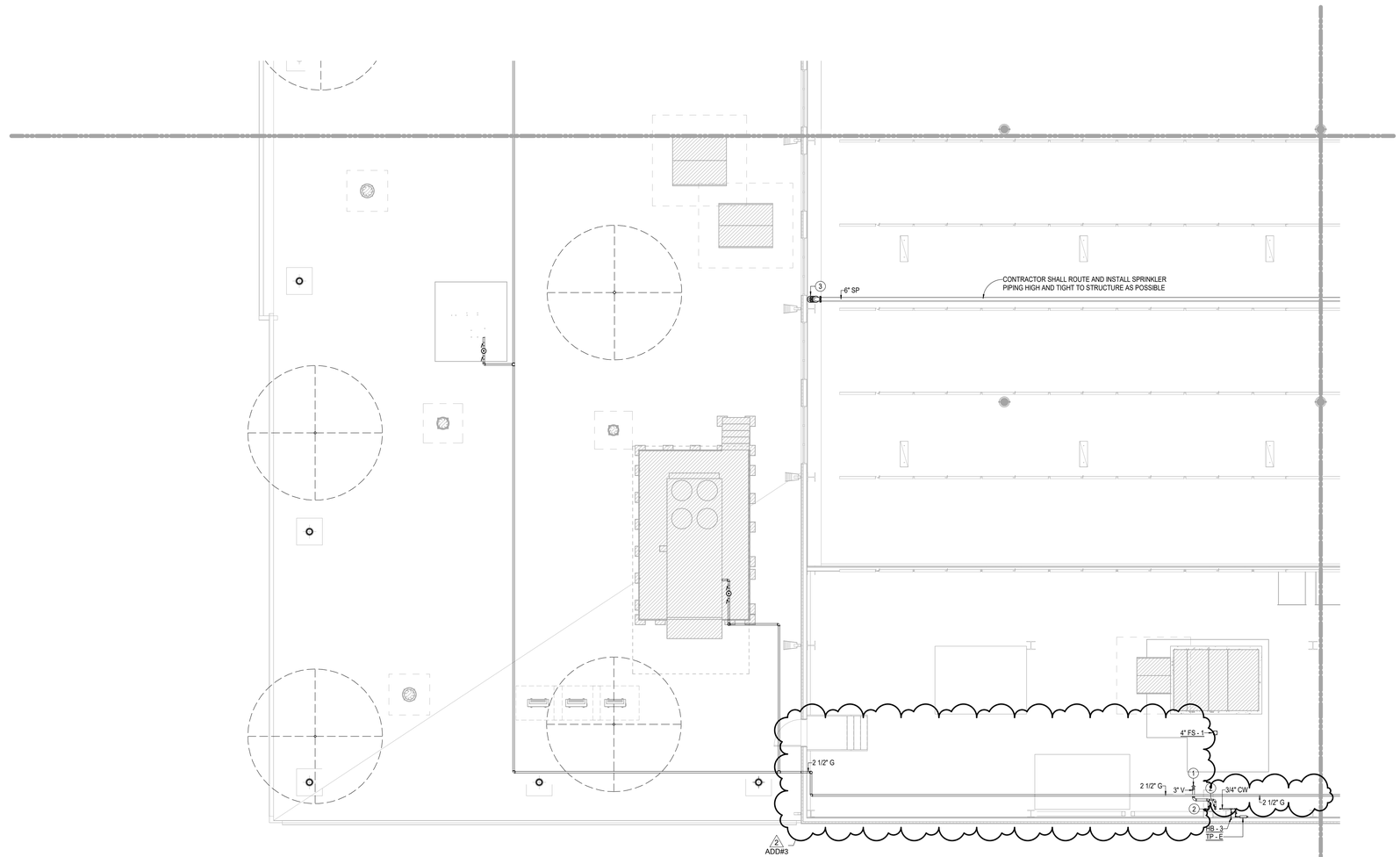
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1 MEZZANINE - PLUMBING PLAN - AREA F
1/8" = 1'-0"

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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-16672

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

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC

DRAWN BY: SC

MEZZANINE PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-104F

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

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B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

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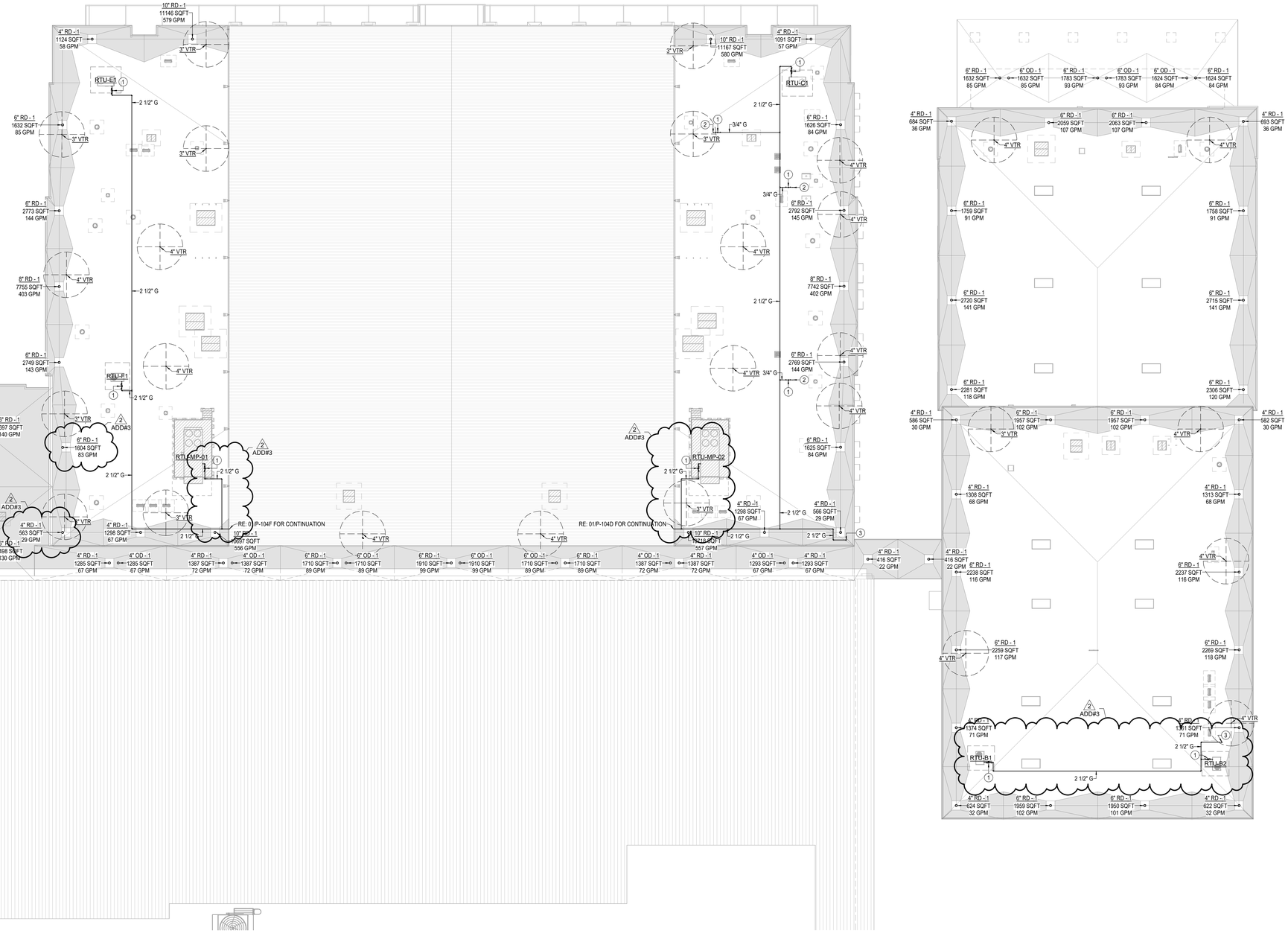
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1 PLUMBING ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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ISSUE FOR PROPOSAL

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KEY PLAN

NORTH: PLAN TRUE

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
2	PACKAGE 3B - ADD 03	12/19/2025

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/DOOR:

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	GRUNDFOS HYDRO MPC-E 4CRE 15-4	EXISTING MECHANICAL A119	VERTICAL MULTISTAGE	10	80	3600	325	185	4 (7.5)	460	3	60	• QUAD BOOSTER • N+1 REDUNDANCY • RE: NOTES
FPP-1	PENTAIR AC 2700 - NEMA 4 (OPEN)	EXISTING FIRE PUMP ROOM	CENTRIFUGAL FIRE PUMP	STORAGE TANKS	-	-	-	-	-	-	-	-	• EXISTING FIRE PUMP IN EXISTING FIRE PUMP ROOM. NEW LOCATED TO 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 80 GALLON ELBI BLADDER TANK.
2. PUMPS TO BE SIZED FOR N+1 REDUNDANCY.
3. FOR PACKAGES PRE-PIPED, PUMPS, 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), 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 (ADA)	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE WRISTBLADE HANDLE AT ADA SINK
FH-1	FUME HOOD, REFER TO OTHERS FOR SPECIFICATIONS. CONTRACTOR SHALL COORDINATE SPECIFIED FUME HOOD BY OTHERS WITH UTILITY PIPING CONNECTIONS. PROVIDE VACUUM BREAKER ON DOMESTIC WATER SYSTEMS AND PROVIDE TMV, BOTH CONCEALED ABOVE CEILING	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480
LS-A	SINK, DROP-IN SINGLE BOWL, TYPE 304 STAINLESS STEEL, 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), 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-B	LAB SINK, SAME AS LS-A EXCEPT RIM SHALL BE MOUNTED NO HIGHER THAN 34" AFF (ADA)	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).

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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
BUILDING NAIL FOR ALL SPACE

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-19672

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

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

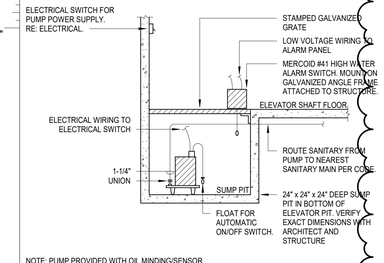
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DRAWN BY: SC

PLUMBING SCHEDULES

P-501

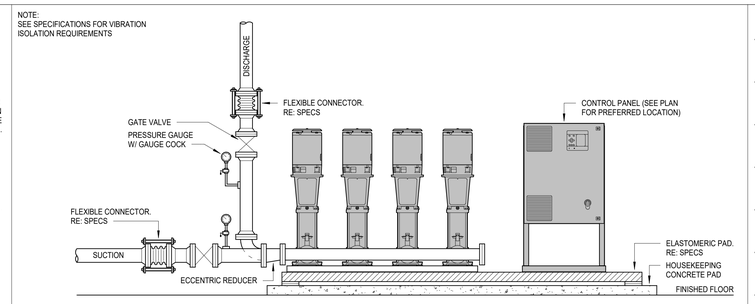
Plot Stamp:
12/16/2025 2:10:31 PM

PLUMBING DETAILS
P-601
FOR BLUEBEAM LABELING/DOOR:



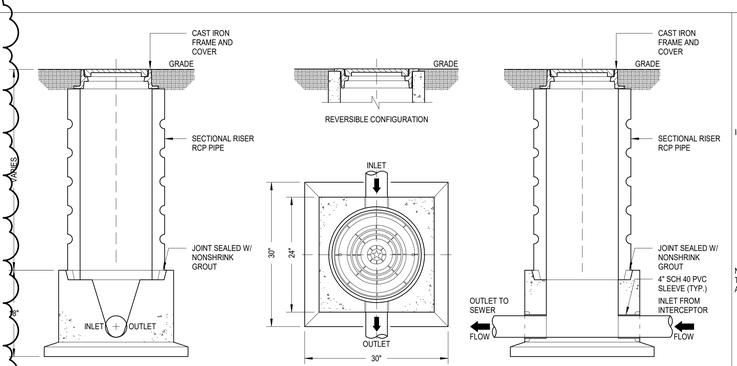
NOTE: PUMP PROVIDED WITH OIL MINDING/SENSOR ALARM TO PREVENT OIL WASTE FROM ENTERING SANITARY SEWER SYSTEM.

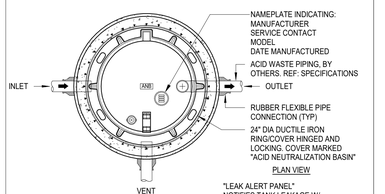
23 ELEVATOR SUMP PUMP
N.T.S



22 DOMESTIC WATER BOOSTER PUMP (DWP-1)
N.T.S

2 ADD#3

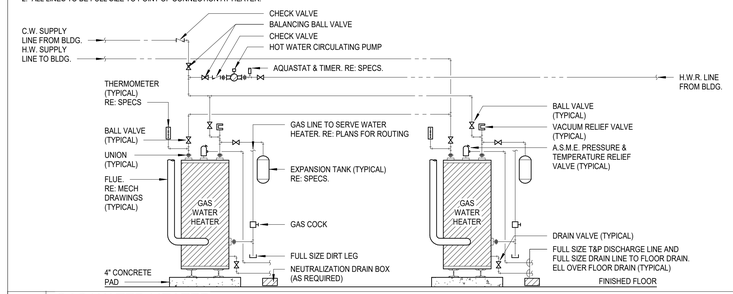




18 ACID DILUTION/NEUTRALIZING TANK
N.T.S

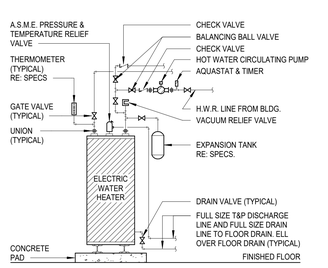
ACID DILUTION/NEUTRALIZING TANK SCHEDULE								
MODEL NO.	CAPACITY (US GAL)	CAPACITY (FT^3)	FLOW (GAL / HR)	WEIGHT (LBS)	LAB STATIONS	DIA	D	FLOW LINE FL
ANT-200	200	27	400	4,000	40	36"	60"	48"

NOTES:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.



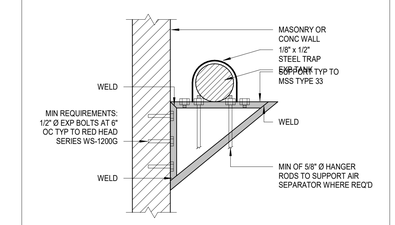
21 GAS WATER HEATER
N.T.S

NOTES:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.



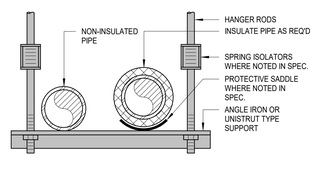
20 ELECTRIC WATER HEATER PIPING
N.T.S

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



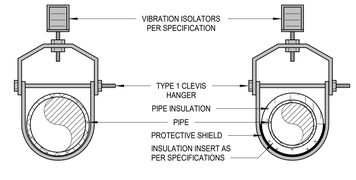
13 PIPE WALL SUPPORT
N.T.S

NOTES:
SIZE RODS, SPRING CUSHION, AND HORIZONTAL MEMBER APPROVED TO SATISFY LOAD REQUIREMENT W/ SAFETY FACTOR OF 5



14 PIPE SUPPORT - TRAPEZE TYPE
N.T.S

NOTES:
ROUTE PIPING AS LOW AS POSSIBLE TO CEILING GRID FOR EASE OF ACCESSIBILITY



15 SINGLE PIPE TYPE 1 CLEVIS HANGER
N.T.S

9 FLEXIBLE SPRINKLER PIPING
N.T.S

8 CONCEALED SPRINKLER HEAD
N.T.S

7 UPRIGHT SPRINKLER HEAD
N.T.S

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.

6 SPRINKLER HEAD LOCATIONS
N.T.S

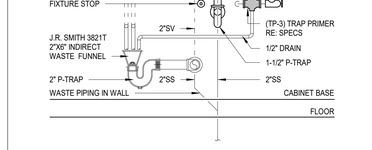
SPECIFICATIONS

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.

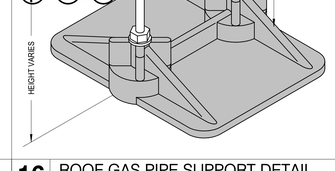
NOTES
1. SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.
2. USE 15" T&G R.C.P. FOR INSTALLATION FOR INSTALLATION 6'-0" DEEP AND LESS
3. USE 24" T&G R.C.P. FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STD RING AND M.H. COVER REQUIRED)
4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE 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



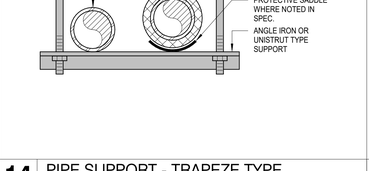
17 INDIRECT WASTE RECEPTOR
N.T.S

NOTES:
1. ALL POLYCARBONATE RESIN HAS BEEN TREATED WITH CARBON BLACK FOR ULTRAVIOLET RESISTANCE AND WEATHERING.
2. **CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DETAILS AND SPECIFICATIONS BY BUILDING ENVELOPE DESIGNER TO PROVIDE THE CORRECT ROOFTOP GAS PIPE SUPPORT REQUIREMENTS.**

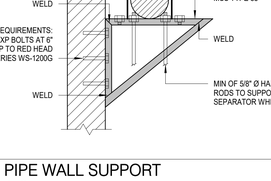


16 ROOF GAS PIPE SUPPORT DETAIL
NOT TO SCALE

4 SPRINKLER FLOOR CONTROL VALVE
N.T.S

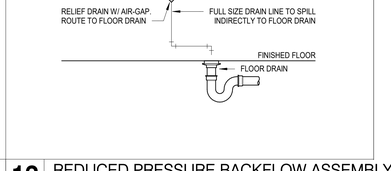


3 HEAT TRACE
N.T.S

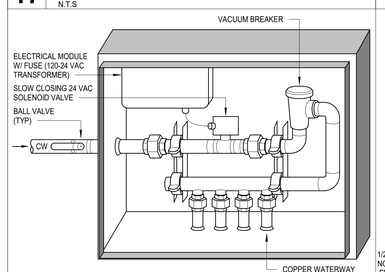


PIPE SIZE	40 DEGREE RISE L < 300 L.F.		60 DEGREE RISE L < 300 L.F.		80 DEGREE RISE L < 300 L.F.	
	W	H	W	H	W	H
3/4"	24"	48"	24"	48"	24"	48"
1"	24"	48"	36"	72"	36"	72"
1-1/4"	24"	48"	36"	72"	36"	72"
1-1/2"	24"	48"	36"	72"	36"	72"
2"	24"	48"	36"	72"	36"	72"
2-1/2"	24"	48"	36"	72"	36"	72"
3"	24"	48"	36"	72"	48"	96"
4"	24"	48"	36"	72"	48"	96"

2 EXPANSION LOOP TABLE
N.T.S

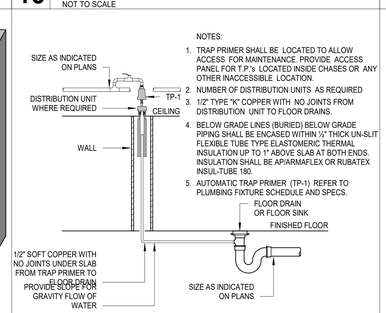


12 REDUCED PRESSURE BACKFLOW ASSEMBLY
N.T.S



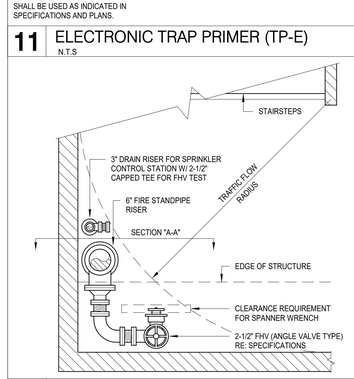
NOTE: ELECTRONIC TRAP PRIMERS SHALL BE USED AS INDICATED IN SPECIFICATIONS AND PLANS.

11 ELECTRONIC TRAP PRIMER (TP-E)
N.T.S

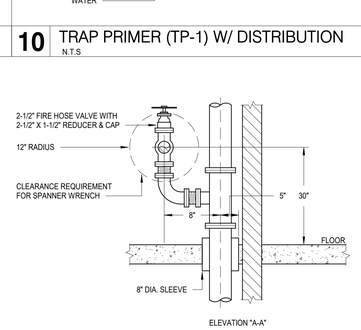


NOTES:
1. TRAP PRIMER SHALL BE LOCATED TO ALLOW ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANEL FOR T.P.'s LOCATED INSIDE CHASES OR ANY OTHER INACCESSIBLE LOCATION.
2. NUMBER OF DISTRIBUTION UNITS AS REQUIRED
3. 1/2" TYPE "K" COPPER WITH NO JOINTS FROM DISTRIBUTION UNIT TO FLOOR DRAINS.
4. BELOW GRADE LINES (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.

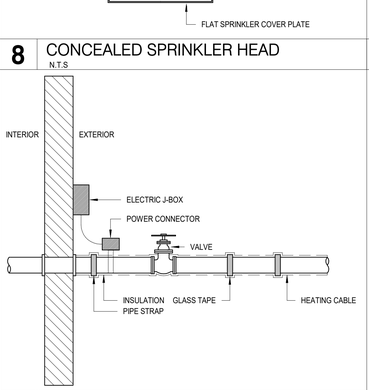
10 TRAP PRIMER (TP-1) W/ DISTRIBUTION
N.T.S



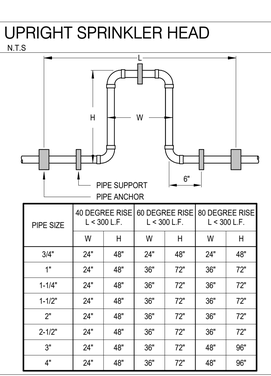
5 TYPICAL STAIRWELL STANDPIPE
N.T.S



4 SPRINKLER FLOOR CONTROL VALVE
N.T.S

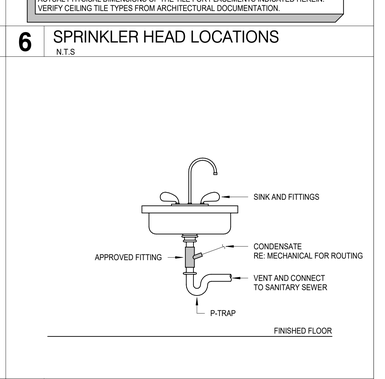


3 HEAT TRACE
N.T.S



PIPE SIZE	40 DEGREE RISE L < 300 L.F.		60 DEGREE RISE L < 300 L.F.		80 DEGREE RISE L < 300 L.F.	
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3"	24"	48"	36"	72"	48"	96"
4"	24"	48"	36"	72"	48"	96"

2 EXPANSION LOOP TABLE
N.T.S



1 CONDENSATE TO SINK TAILPIECE
N.T.S

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

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713.366.0808

1000 Keene St.
Galena Park, TX 77547

Galena Park ISD

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-19672

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

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

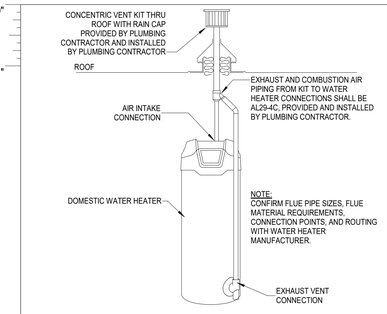
CHECKED BY: SC
DRAWN BY: SC

PLUMBING DETAILS

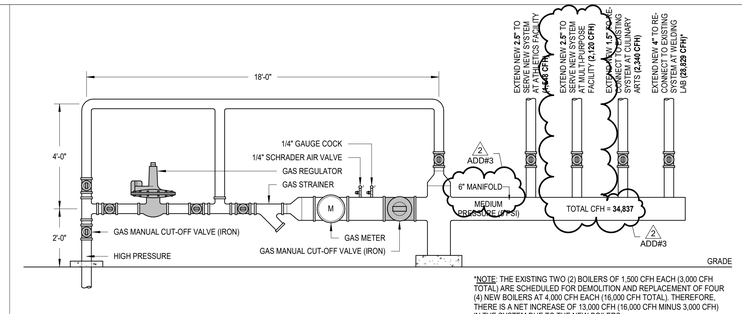
P-601

Plot Stamp:
12/16/2025 2:10:33 PM

PLUMBING DETAILS
P-602
FOR BLUEBEAM LABELING/OCR:

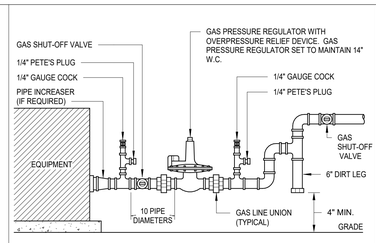


26 GAS WATER HEATER FLUE DETAIL
N.T.S

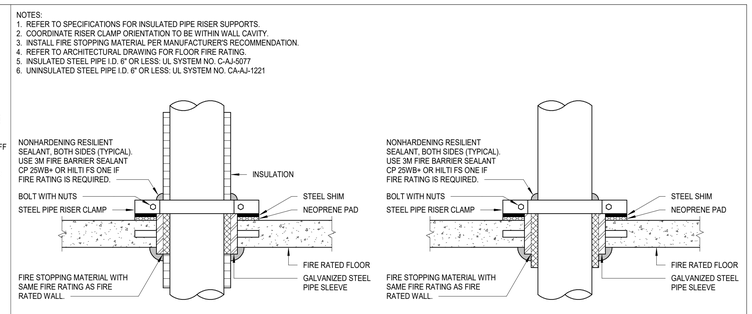


*NOTE: THE EXISTING TWO (2) BOILERS OF 1,500 CFH EACH (3,000 CFH TOTAL) ARE SCHEDULED FOR DEMOLITION AND REPLACEMENT OF FOUR (4) NEW BOILERS AT 4,000 CFH EACH (16,000 CFH TOTAL). THEREFORE, THERE IS A NET INCREASE OF 13,000 CFH (16,000 CFH MINUS 3,000 CFH) IN THE SYSTEM DUE TO THE NEW BOILERS.

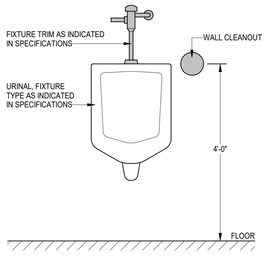
25 TYPICAL LARGE SERVICE GAS METER
N.T.S



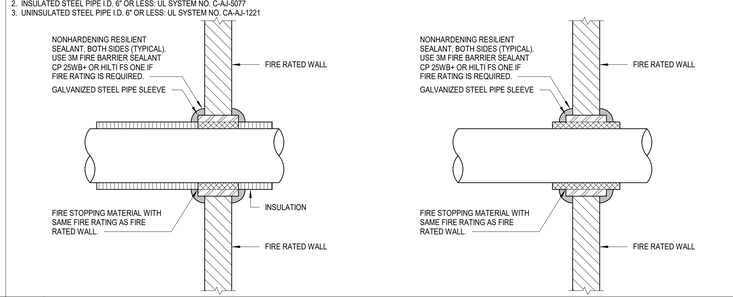
24 EQUIPMENT GAS CONNECTION
N.T.S



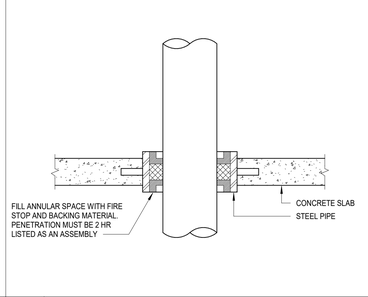
23 TYPICAL PIPE PENETRATION THROUGH FIRE RATED FLOOR
3/8" = 1'-0"



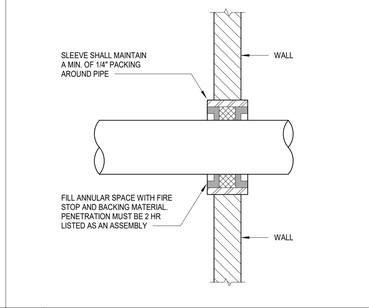
22 URINAL ELEVATION CLEANOUT
N.T.S



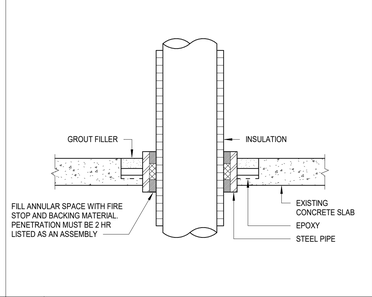
21 TYPICAL PIPE PENETRATION THROUGH FIRE RATED WALL
3/8" = 1'-0"



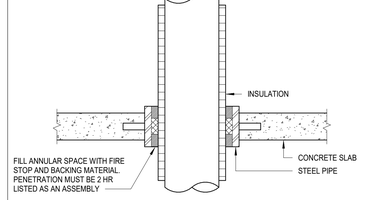
20 UNINSULATED PIPE FLOOR PENETRATION
N.T.S



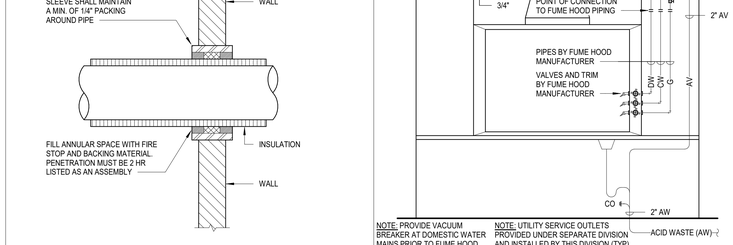
19 UNINSULATED PIPE WALL PENETRATION
N.T.S



18 INSULATED PIPE FLOOR PENETRATION
N.T.S

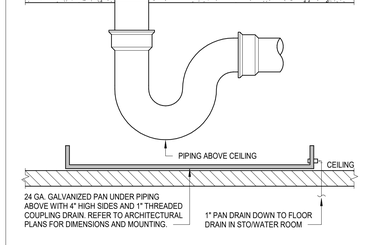


17 INSULATED PIPE FLOOR PENETRATION
N.T.S

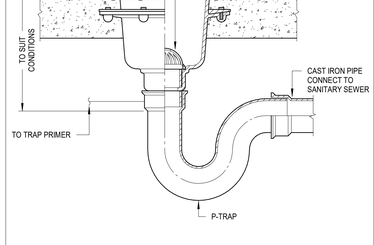


16 INSULATED PIPE WALL PENETRATION
N.T.S

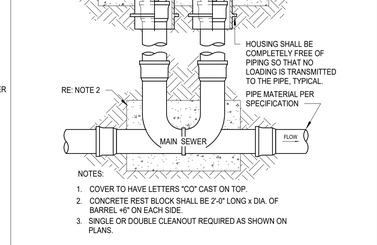
15 LAB FUME HOOD
N.T.S



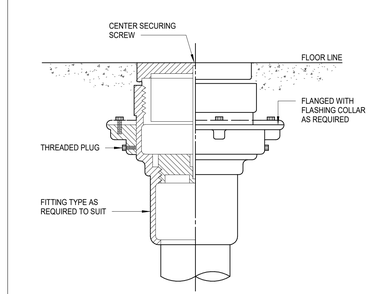
14 DRAIN PAN DETAIL
N.T.S



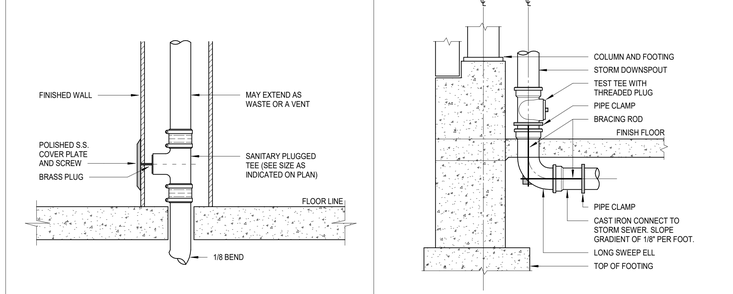
13 FLOOR SINK
N.T.S



12 P6N DOUBLE EXTERIOR CLEANOUT
N.T.S

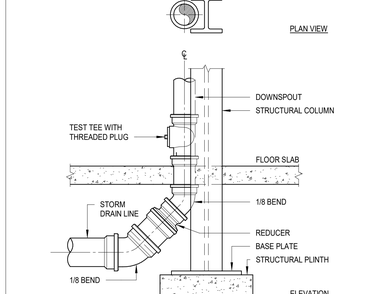


11 FLOOR CLEANOUT
N.T.S

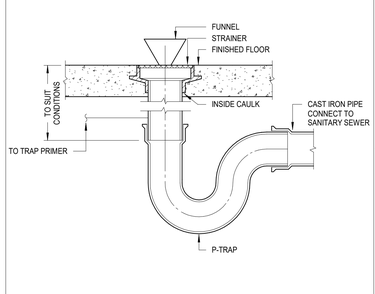


10 WALL CLEANOUT DETAIL
N.T.S

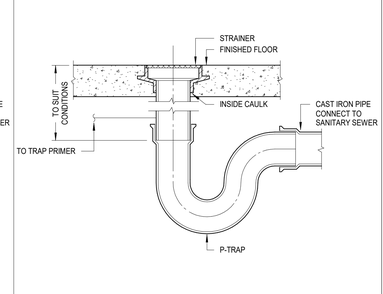
9 STORM DOWNSPOUT
N.T.S



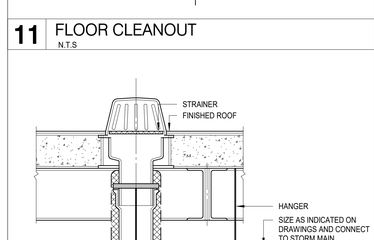
8 STORM DOWNSPOUT
N.T.S



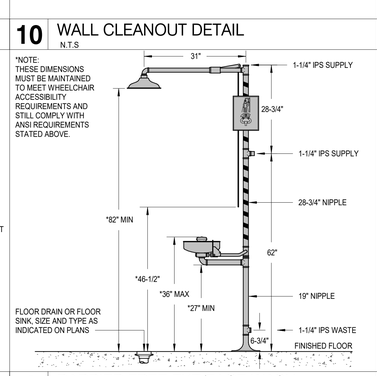
7 FLOOR DRAIN DETAIL
N.T.S



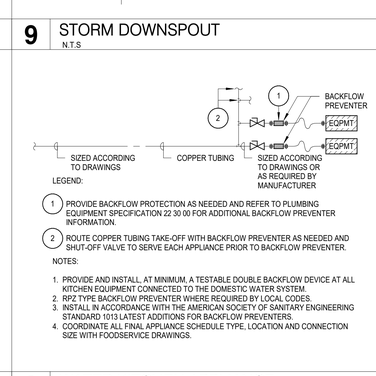
6 FLOOR DRAIN DETAIL
N.T.S



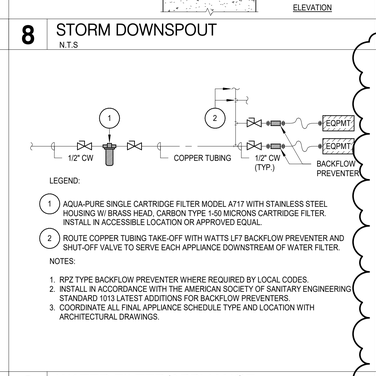
5 ROOF + OVERFLOW DRAIN DETAIL
N.T.S



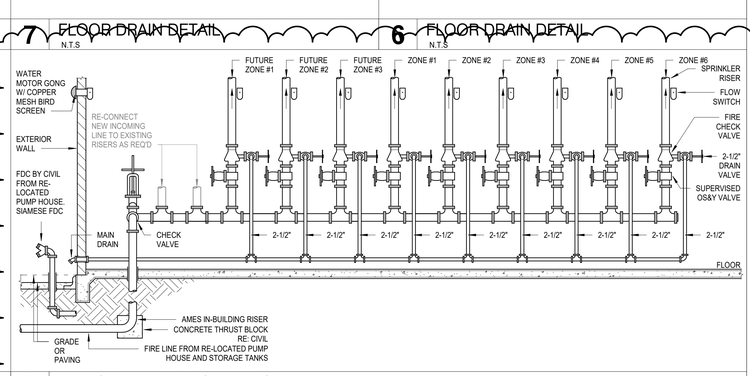
4 BARRIER FREE EYE/FACE WASH
N.T.S



3 WATER KITCHEN APPLIANCE
N.T.S



2 WATER FILTER/APPLIANCE
N.T.S



1 FIRE SPRINKLER RISER DIAGRAM
N.T.S
2 ADD#3

Plot Stamp:
12/16/2025 2:10:35 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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DETAILS

P-602

PLUMBING DETAILS
P-604
FOR BLUEBEAM LABELING/OCR:

0"
1"

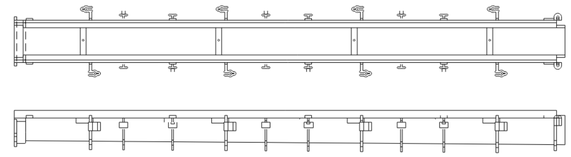
Z886-HPP Bill of Material

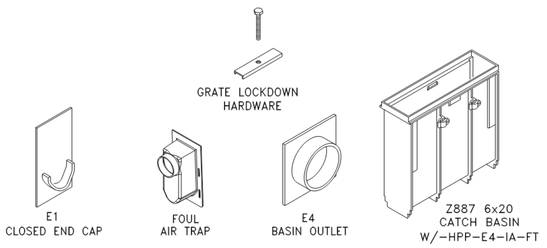
TD-1 QTY: 2

TD Run	Line #	Length	Channel Quantity	Total Length	Channel	Frame	Grate	Grate QTY	Cuts	QTY Cuts	Fabs	QTY Fab	Outlets	QTY Outlets	Options	QTY Options
	Line 1	40.00	1	40.00	8601	-	-HPP	2	Cut	1					E1	1
	Line 2	80.00	1	80.00	8602	-	-HPP	4								
	Line 3	80.00	1	80.00	8603	-	-HPP	4								
	Line 4	80.00	4	320.00	8603N	-	-HPP	16								
	Line 5	80.00	1	80.00	8604	-	-HPP	4								
	Line 6	80.00	1	80.00	8605	-	-HPP	4								
	Line 7	80.00	1	80.00	8606	-	-HPP	4								
	Line 8	80.00	5	400.00	8606N	-	-HPP	20								
	Line 9	80.00	1	80.00	8607	-	-HPP	4								
	Line 10	80.00	1	80.00	8608	-	-HPP	4								
	Line 11	80.00	1	80.00	8609	-	-HPP	4								
	Line 12	80.00	1	80.00	8610	-	-HPP	4								
	Line 13	80.00	1	80.00	8611	-	-HPP	4								
	Line 14	80.00	1	80.00	8612	-	-HPP	4								
	Line 15	80.00	5	400.00	8612N	-	-HPP	20								
	Line 16	80.00	1	80.00	8613	-	-HPP	4								
	Line 17	80.00	1	80.00	8614	-	-HPP	4								
	Line 18	80.00	1	80.00	8615	-	-HPP	4								
		IN.														
TOTAL		2280.00						114		1		0		0		1
		FT														
TOTAL		190.00														

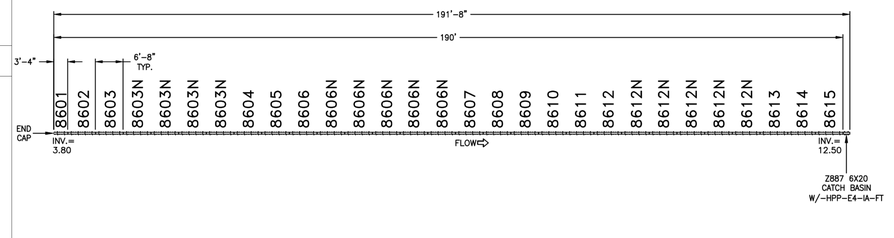
Z887-6-HPP Bill of Material

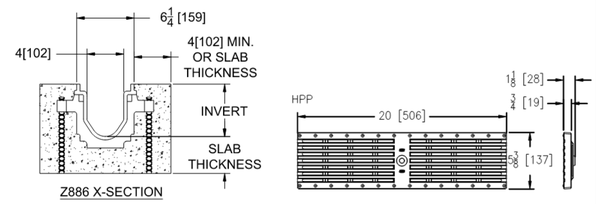
CB #	Line #	Length	Basin Quantity	Total Length	System	Frame	Grate	Grate QTY			Fabs	QTY Fab	Outlets	QTY Outlets	Options	QTY Options
CB-6	Line 1	20.00	2	40.00	Z887-6	-	-HPP	2					E4	2	IA-886	2
															FT	2
			2					**2**				**0**		**2**		**4**





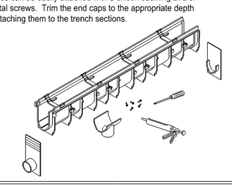
TD-1
QTY:2
W/-HPP
ALL FULL GRATES



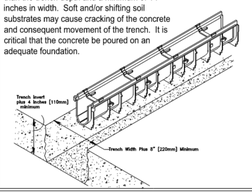


2 TRENCH DRAIN (TD-1) BILL OF MATERIAL AND LAYOUT DETAILS
N.T.S

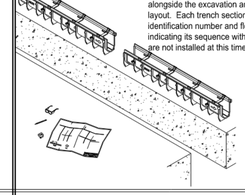
Locate the trench sections that are to receive any accessories, such as end caps, bottom outlets, and/or end outlets. These accessories can be easily attached with a silicon caulking and/or sheet metal screws. Trim the end caps to the appropriate depth prior to attaching them to the trench sections.



Trench excavation must be 4 inches greater than the trench depth and a minimum of 14 inches in width. Soft and/or shifting soil substrates may cause cracking of the concrete and consequent movement of the trench. It is critical that the concrete be poured on an adequate foundation.

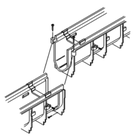


Upon completion of the trench excavation, the channels should be placed in numeric order alongside the excavation and according to the job layout. Each trench section has a trench identification number and flow direction arrow indicating its sequence within the system. Grates are not installed at this time.



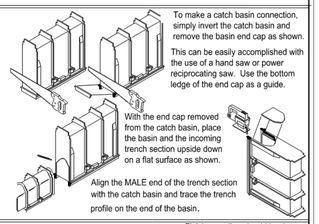
Assembling the trench run is easy with Perma-Trench's unique mechanical joint interlock. Simply align the two mating ends of the trench sections and fasten with the hardware fasteners provided.

Silicon caulking may be used at each joint as a sealer.



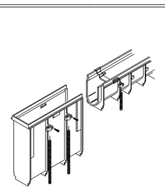
To make a catch basin connection, simply invert the catch basin and remove the basin end cap as shown.

This can be easily accomplished with the use of a hand saw or power reciprocating saw. Use the bottom ledge of the end cap as a guide.

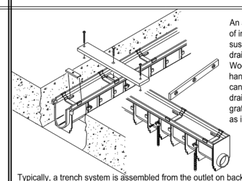


With the end cap removed from the catch basin, place the basin and the incoming trench section upside down on a flat surface as shown.

Align the MALE end of the trench section with the catch basin and trace the trench profile on the end of the basin.



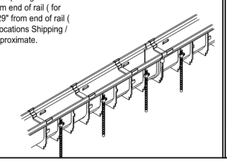
An alternative means of installation is to suspend the trench drain as shown. Wooden braces to hang the trench run can be attached to the drain body through the grate lock down bars as illustrated above.



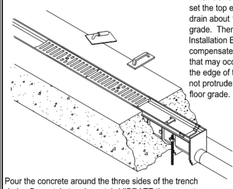
Typically, a trench system is assembled from the outlet on back. Starting with the deepest section or catch basin, set the first channel utilizing Perma-Trench's unique anchoring system. Integral rebar clips are located along the length of each trench drain and catch basin for easy attachment to #4 rebar stakes. Simply align the rebar stakes with the trench drain and drive them into the ground for positive anchoring. Attach the trench drain to the rebar stakes with the hardware provided.

Shipping / Installation Bars will be placed on ALL channels with no frame attached, prior to shipment. This is to Stabilize the rails and maintain the inside dimensions during the shipping / installation bars are for shipping and installation purposes only and must be removed upon completion of the concrete pour.

(4) Shipping / Installation Bars per Channel; recommended spacing is approximately 3"-6" from end of rail (for end pieces) and 26" - 29" from end of rail (for center Pieces). All locations Shipping / installation Bars are approximate.



Finish troweling should be done to set the top edge of the trench drain about 1/16" below the floor grade. Then remove Shipping / Installation Bars. Remember to compensate for concrete shrink that may occur during cure so that the edge of the trench drain does not protrude above the finished floor grade.



Pour the concrete around the three sides of the trench drain. Be certain to adequately VIBRATE the concrete as it is being placed. Proper vibration will eliminate any unwanted voids within the concrete pour

1 TRENCH DRAIN (TD-1) INSTALLATION DETAILS
N.T.S

Plot Stamp:
12/16/2025 2:10:35 PM

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TX FIRM: BR 1608
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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

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

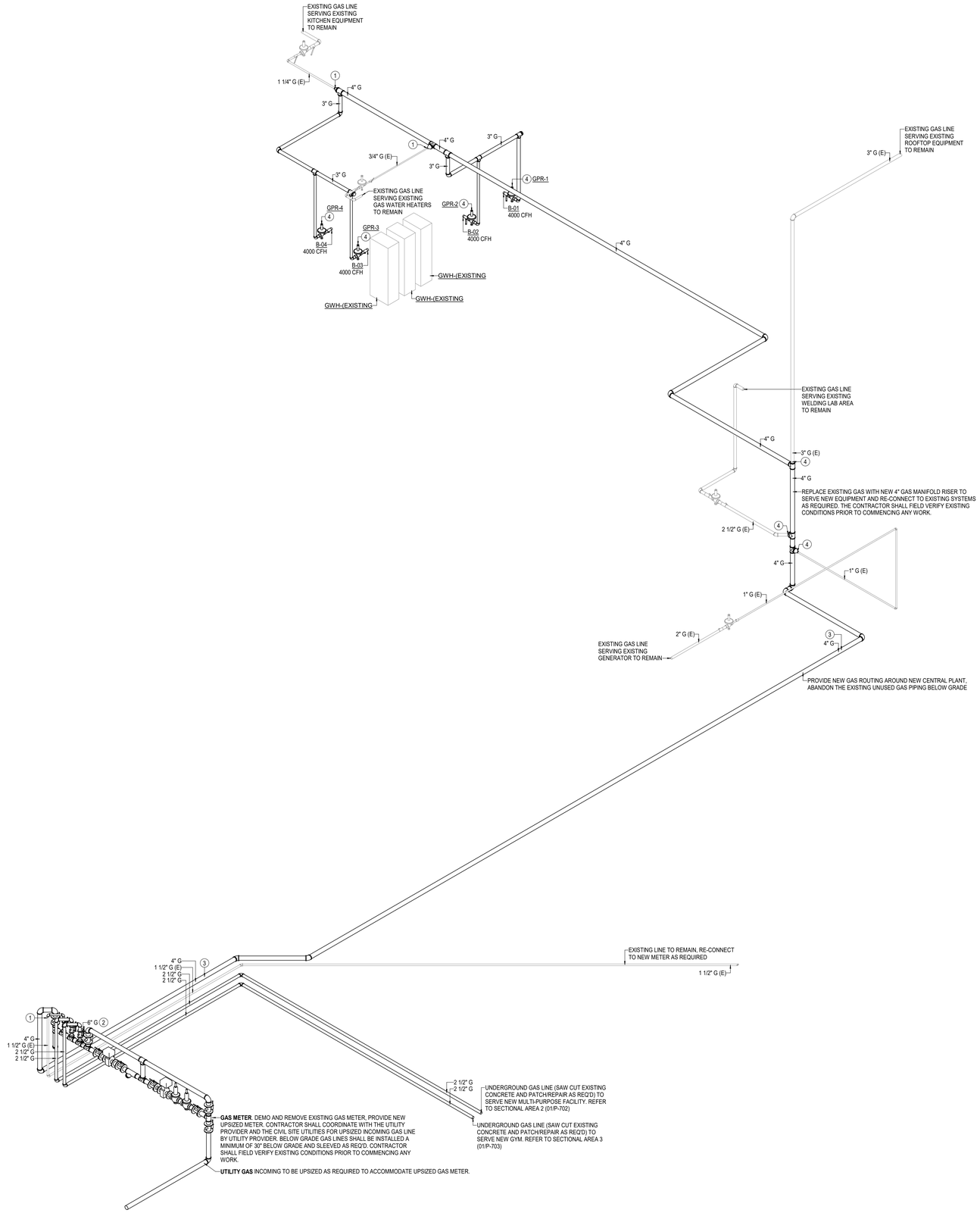
PLUMBING DETAILS

P-604

2 ADD#3

PLUMBING RISER DIAGRAMS
P-701
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 PLUMBING RISER DIAGRAM - NATURAL GAS - SECTIONAL AREA 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.

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 CONNECT NEW GAS LINE TO EXISTING.

2 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL GAS FLOW METER AT INCOMING NATURAL GAS MAIN (CUSTOMER-SIDE OF METER) AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQ'D.

3 RE-ROUTE GAS PIPING AS SHOWN TO AVOID THE NEW MECHANICAL YARD/ CHILLER.

4 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.

GAS LOAD ANALYSIS

GPR-X	INLET (PSI)	(W.C) *OUTLET	EQUIPMENT	CFH
1	5	7"-14"	B-01	4000
2	5	7"-14"	B-02	4000
3	5	7"-14"	B-03	4000
4	5	7"-14"	B-04	4000
DEMO	**5**	**7"-14"**	**HVAC BOILERS (DEMO)**	**3000**
EXISTING	5	7"-14"	DOMESTIC GWH (EXIST)	995
EXISTING	5	7"-14"	MAIN KITCHEN (EXIST)	1917
EXISTING	5	7"-14"	CULINARY ARTS (EXIST)	1942
EXISTING	5	7"-14"	GAS UNIT HEAT (EXIST)	1200
EXISTING	5	7"-14"	GENERATOR (EXIST)	2115
EXISTING	5	7"-14"	EXISTING FACILITY (EXIST)	7000
5	5	7"-14"	RTU-MP-02	800
6	5	7"-14"	RTU-MP-01	800
7	5	7"-14"	RTU-F1	80
8	5	7"-14"	RTU-E1	80
9	5	7"-14"	LAB TURRETS	63
10	5	7"-14"	LAB TURRETS	133
11	5	7"-14"	LAB TURRETS	14
12	5	7"-14"	RTU-C1	80
13	5	7"-14"	RTU-B1	80
14	5	7"-14"	RTU-B2	80
15	5	7"-14"	DRYERS	165
			DRYERS	165
			DRYERS	165
16	5	7"-14"	GWH-1B	199
			GWH-1B	199
17	5	7"-14"	DRYERS	165
			DRYERS	165
			DRYERS	165

TOTAL GAS LOAD	34,767
L(EQ) = 1,500 FT @ 5 PSI	

*COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

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LEAF ENGINEERS

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

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ISSUE FOR PROPOSER PROPOSAL

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
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

PLUMBING RISER DIAGRAMS

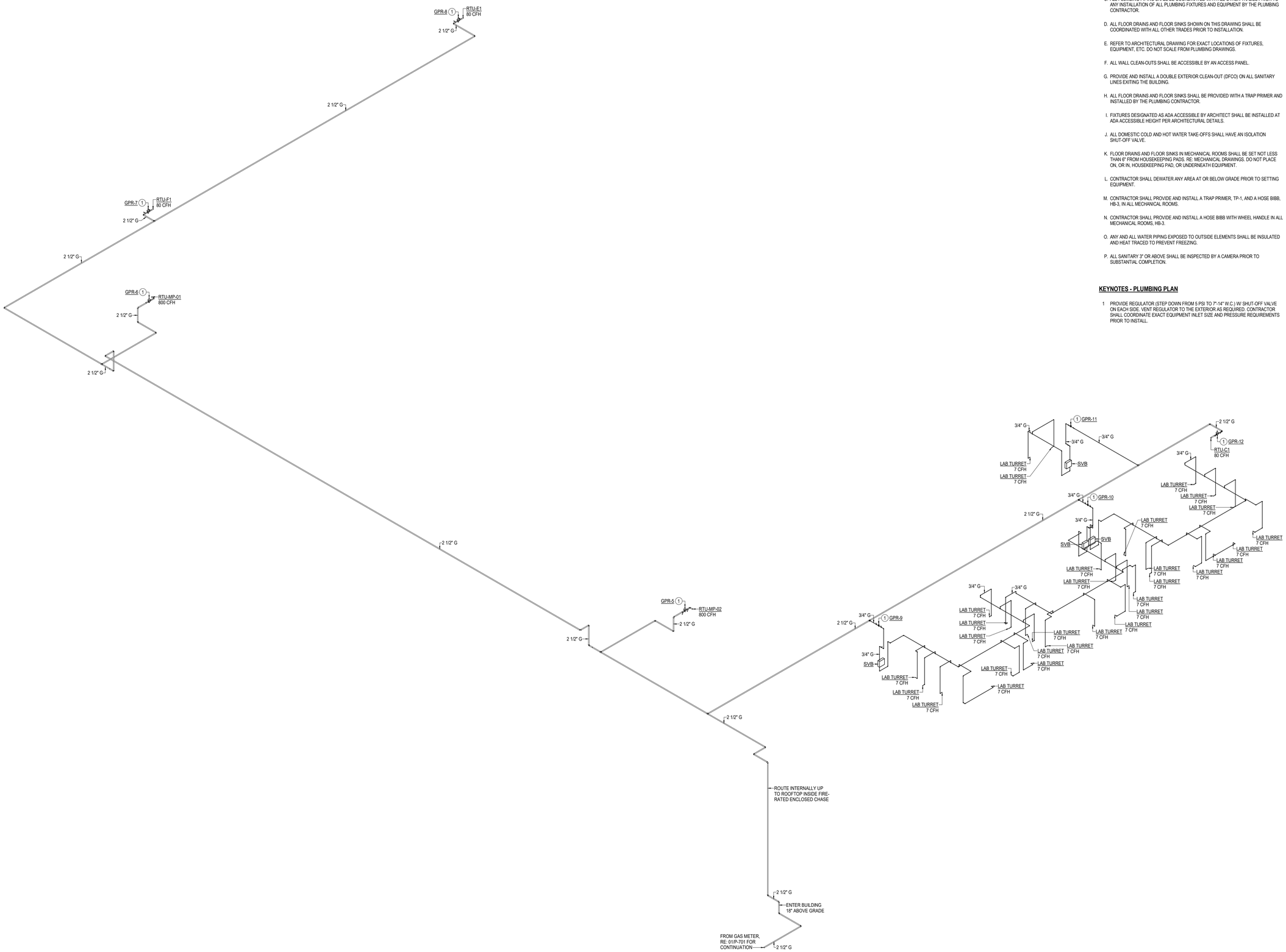
2 ADD#3

P-701

Plot Stamp:
12/16/2025 4:33:41 PM

PLUMBING RISER DIAGRAMS
P-702
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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KEYNOTES - PLUMBING PLAN

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1 PLUMBING RISER DIAGRAM - NATURAL GAS - SECTIONAL AREA 2

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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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025

CHECKED BY: SC
DRAWN BY: SC

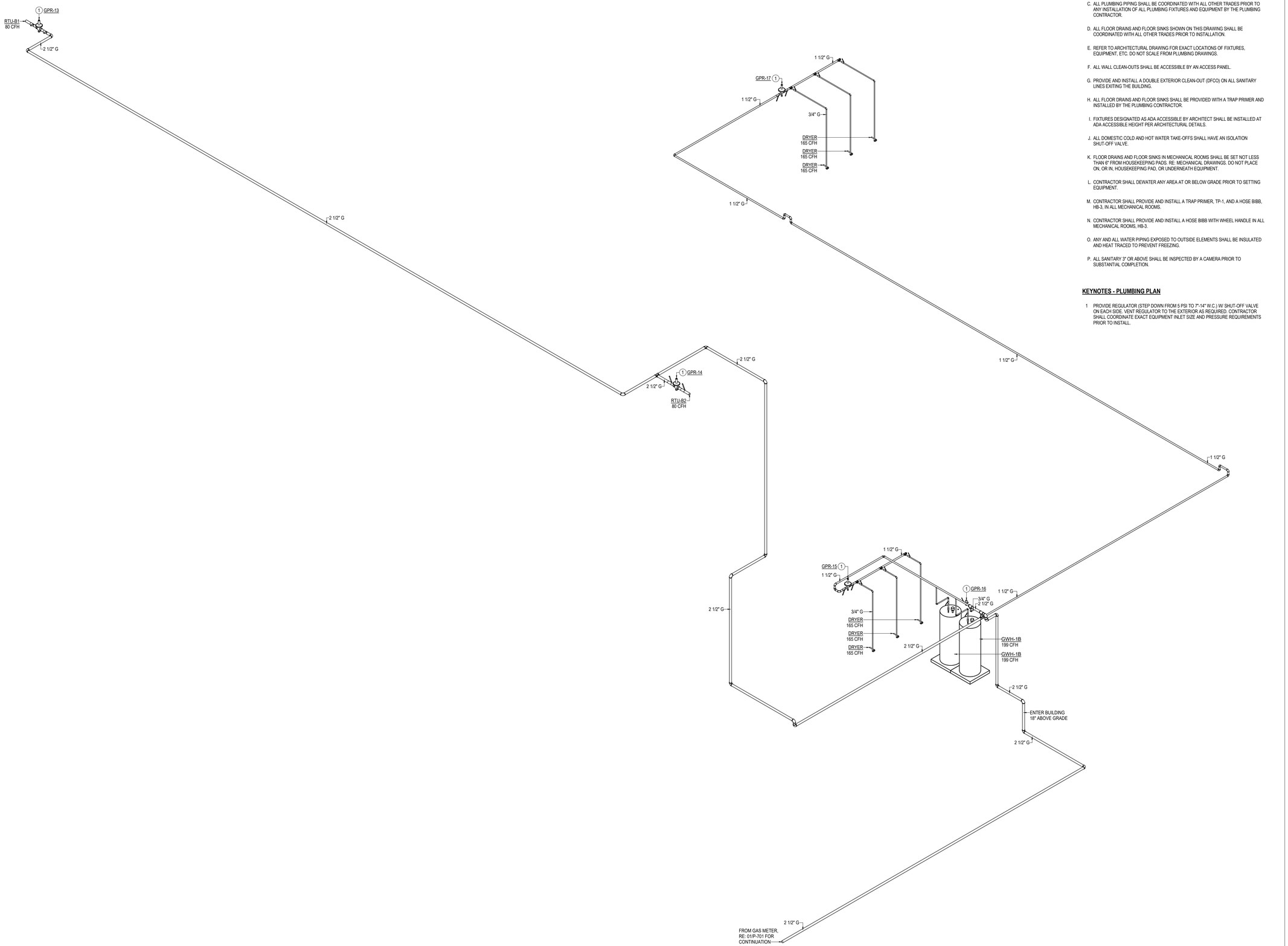
PLUMBING RISER DIAGRAMS

ADD#3
P-702

Plot Stamp:
12/16/2025 4:33:43 PM

PLUMBING RISER DIAGRAMS
P-703
FOR BLUEBEAM LABELING/OCR:

0"
1"



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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1 PLUMBING RISER DIAGRAM - NATURAL GAS - SECTIONAL AREA 3

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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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
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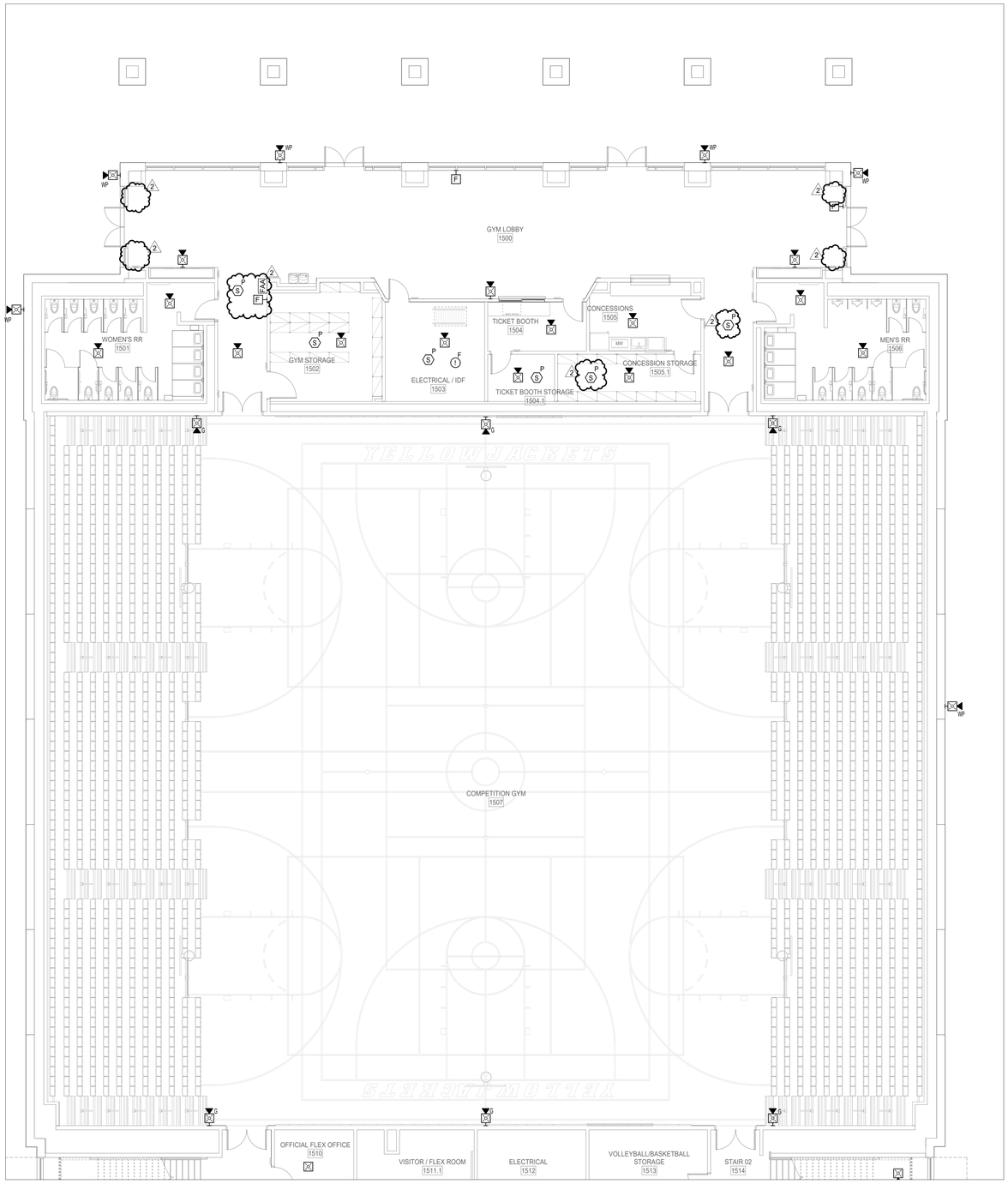
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DRAWN BY: SC

PLUMBING RISER DIAGRAMS

2 ADD#3
P-703

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN
TF-101A
FOR BLUEBEAM LABELING/DOOR:



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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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
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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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

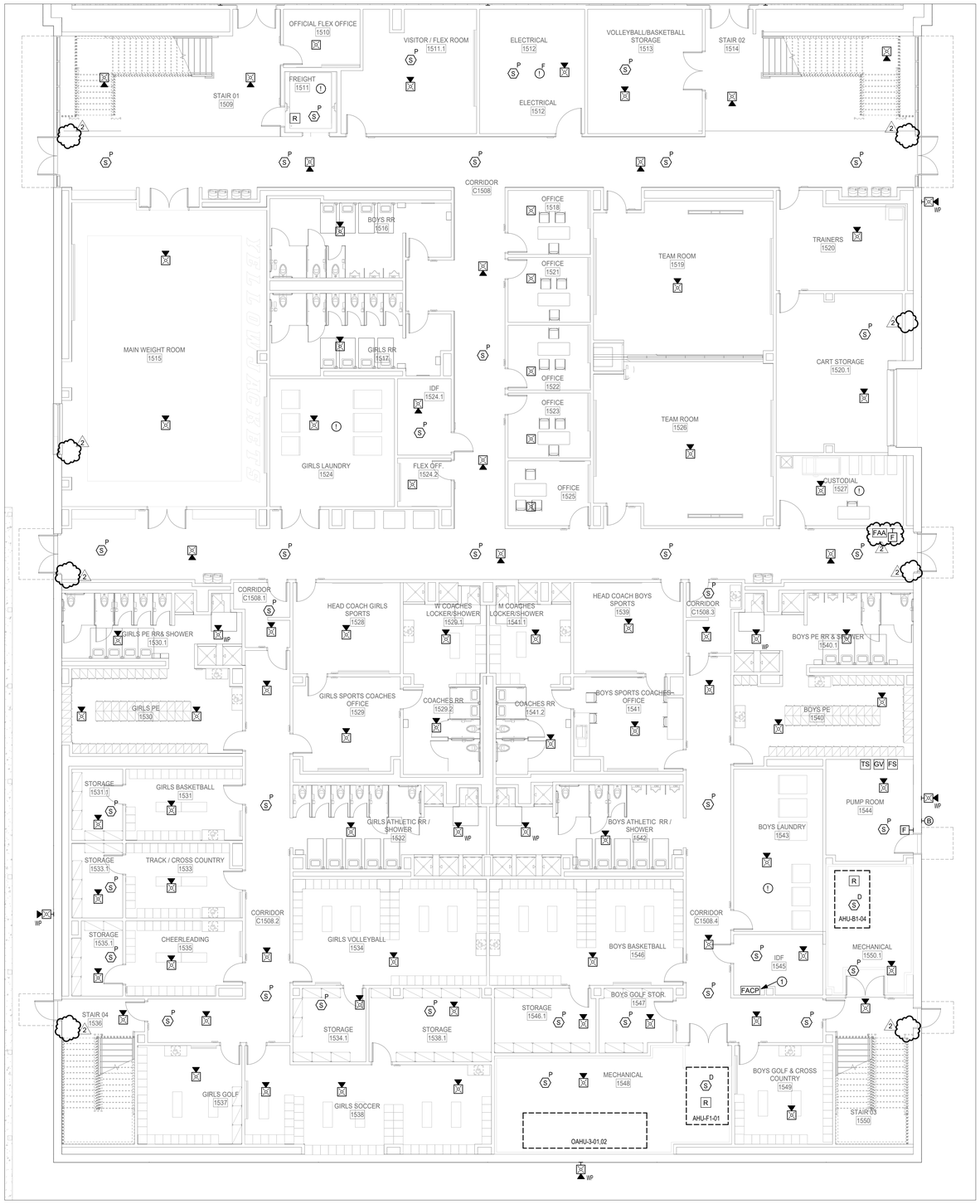
1ST FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN

TF-101A

Plot Stamp:
12/18/2025 11:41:13 AM

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN
TF-101B
FOR BLUEBEAM LABELING/DOOR:



1 **1ST FLOOR FIRE ALARM PLAN - AREA B 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.

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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.

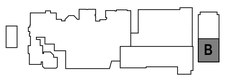
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Galena Park ISD



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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN

TF-101B

Plot Stamp:
12/18/2025 11:41:19 AM

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN
TF-101D
FOR BLUEBEAM LABELING/OCR:

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.

(#) FIRE ALARM PLAN KEYED NOTES

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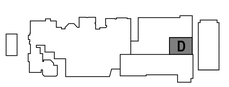


1 **1ST FLOOR FIRE ALARM PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:41:22 AM

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Galena Park, TX 77547
ISSUE FOR PROPOSAL



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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
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/DOCR:



1 **1ST FLOOR FIRE ALARM PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

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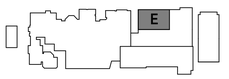
LEAF ENGINEERS

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA E - MP FACILITY FLOOR PLAN

TF-101E

Plot Stamp:
12/18/2025 11:41:24 AM

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.

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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 F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN
TF-101F
FOR BLUEBEAM LABELING/DCR:

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F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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December 5, 2025
LEAF ENGINEERS
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CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

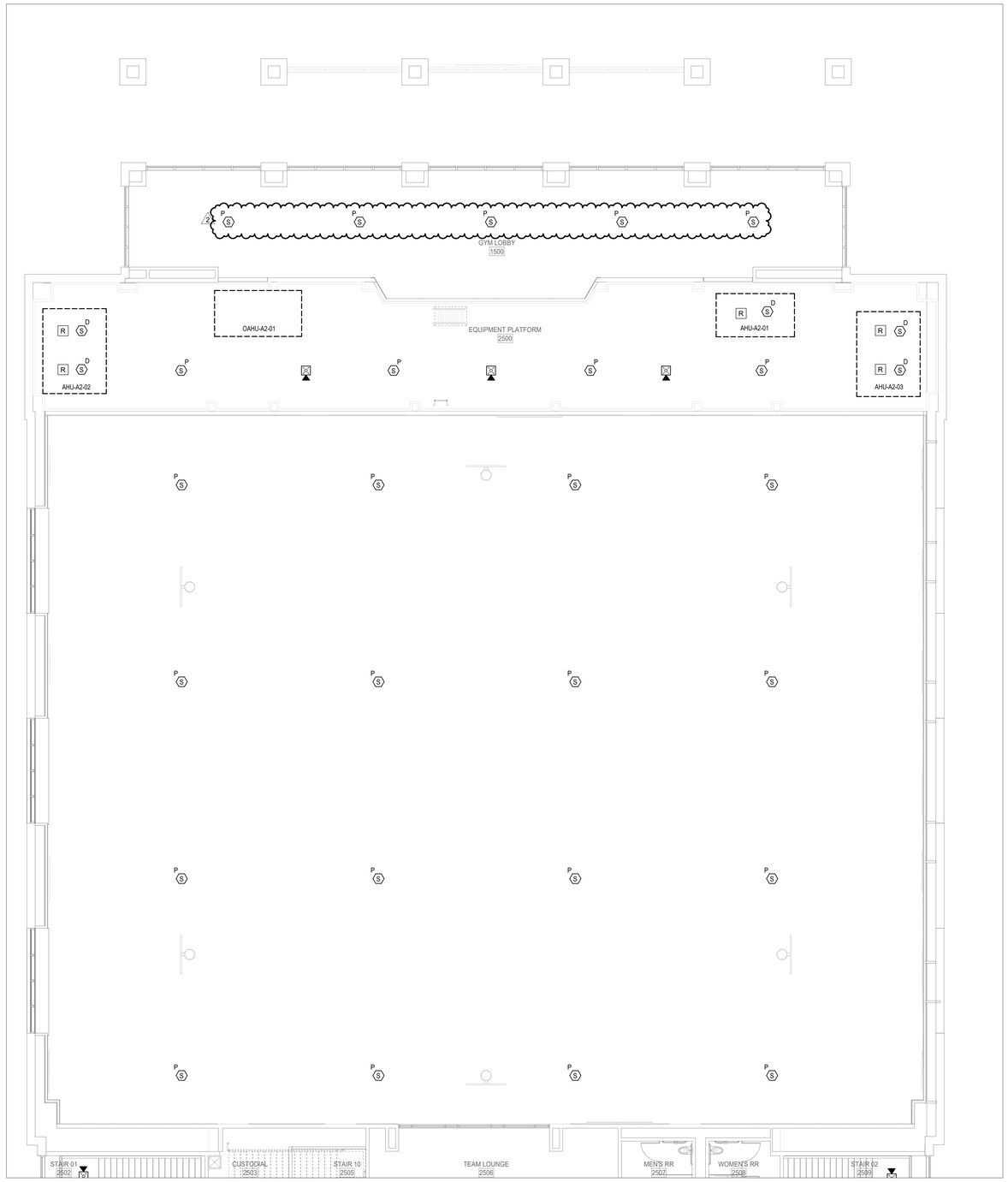
No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-101F

0"
1"



1 **2ND FLOOR FIRE ALARM PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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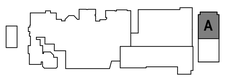
LEAF ENGINEERS

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

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LEAF ENGINEERS
F-16672

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN

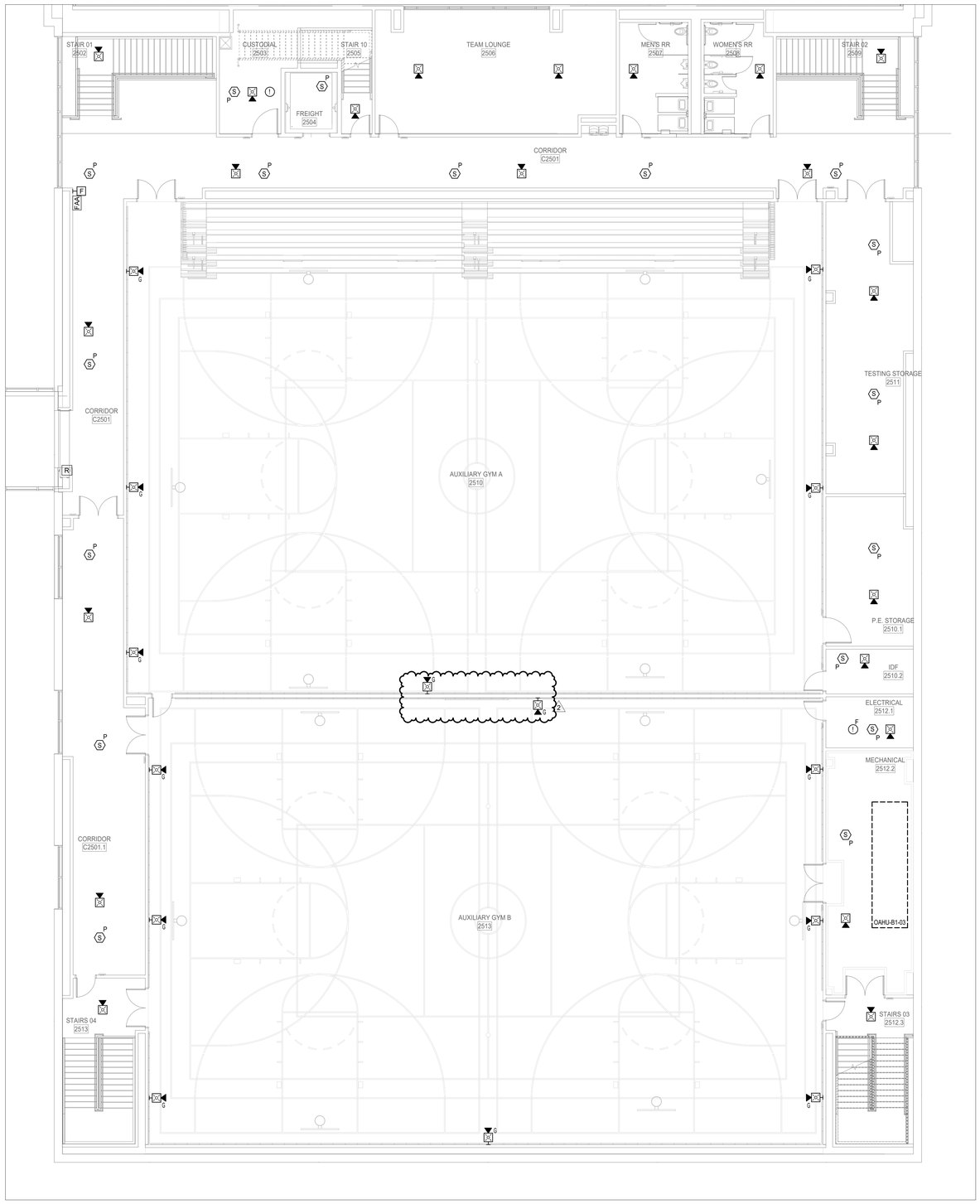
TF-102A

2ND FLOOR FIRE ALARM PLAN - AREA A - GYM FLOOR PLAN
TF-102A
FOR BLUEBEAM LABELING/DOOR:

Plot Stamp:
12/18/2025 11:41:27 AM

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"

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DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

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2ND FLOOR FIRE ALARM PLAN - AREA B - GYM FLOOR PLAN

TF-102B

Plot Stamp:
12/18/2025 11:41:30 AM

0"
1"

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1 2ND FLOOR FIRE ALARM PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:41:33 AM

2ND FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN
TF-102D
FOR BLUEBEAM LABELING/OCR:

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

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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	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

TF-102D

0"

1"

FIRE ALARM PLAN GENERAL NOTES

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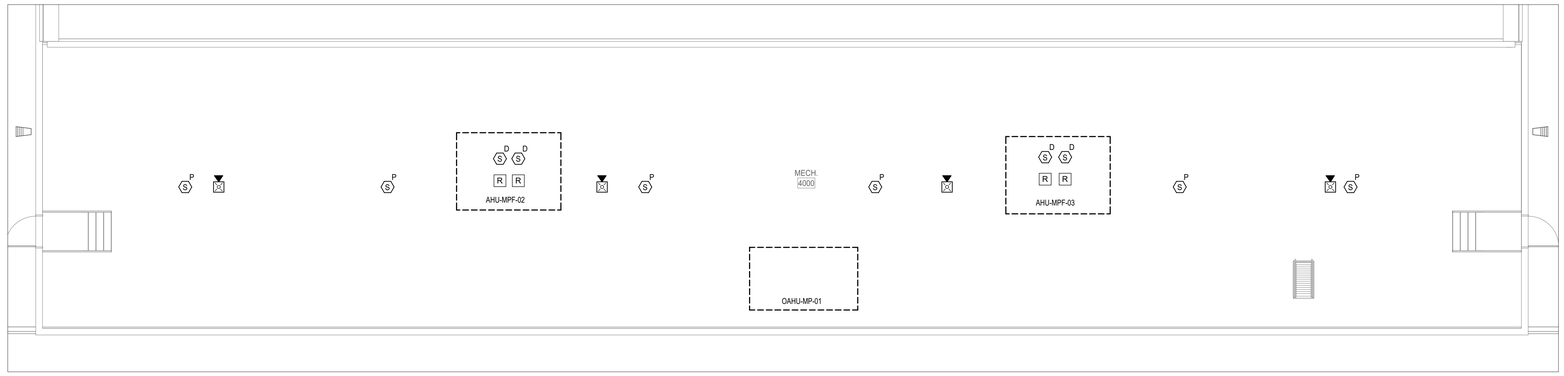
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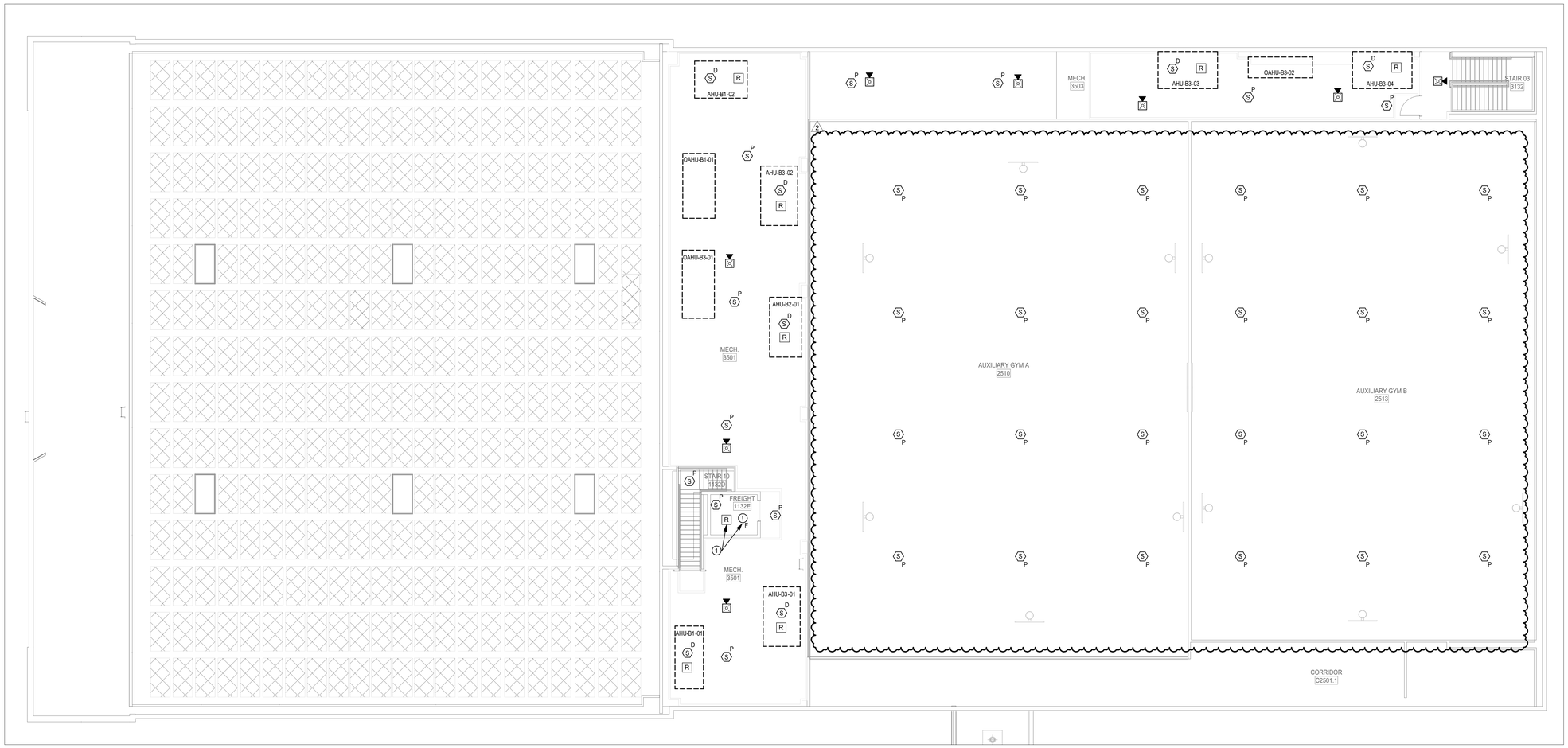
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2 MULTIPURPOSE ENLARGED LEVEL 3 BOD MEZZANINE FIRE ALARM (PLAN PLAN SOUTH ABOVE MAIN STREET)

SCALE: 1/8" = 1'-0"



1 3RD FLOOR FIRE ALARM PLAN - NEW GYM OVERALL FLOOR PLAN

SCALE: 1" = 10'-0"

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FOR BLUEBEAM LABELING/DOOR:

3RD FLOOR FIRE ALARM PLAN - GYM & MP MEZZANINE FLOOR PLANS

TF-103

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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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CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - GYM & MP MEZZANINE FLOOR PLANS

TF-103

0"

1"

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1 3RD FLOOR FIRE ALARM PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

3RD FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN
TF-103F
FOR BLUEBEAM LABELING/DCR:

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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
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-103F

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.

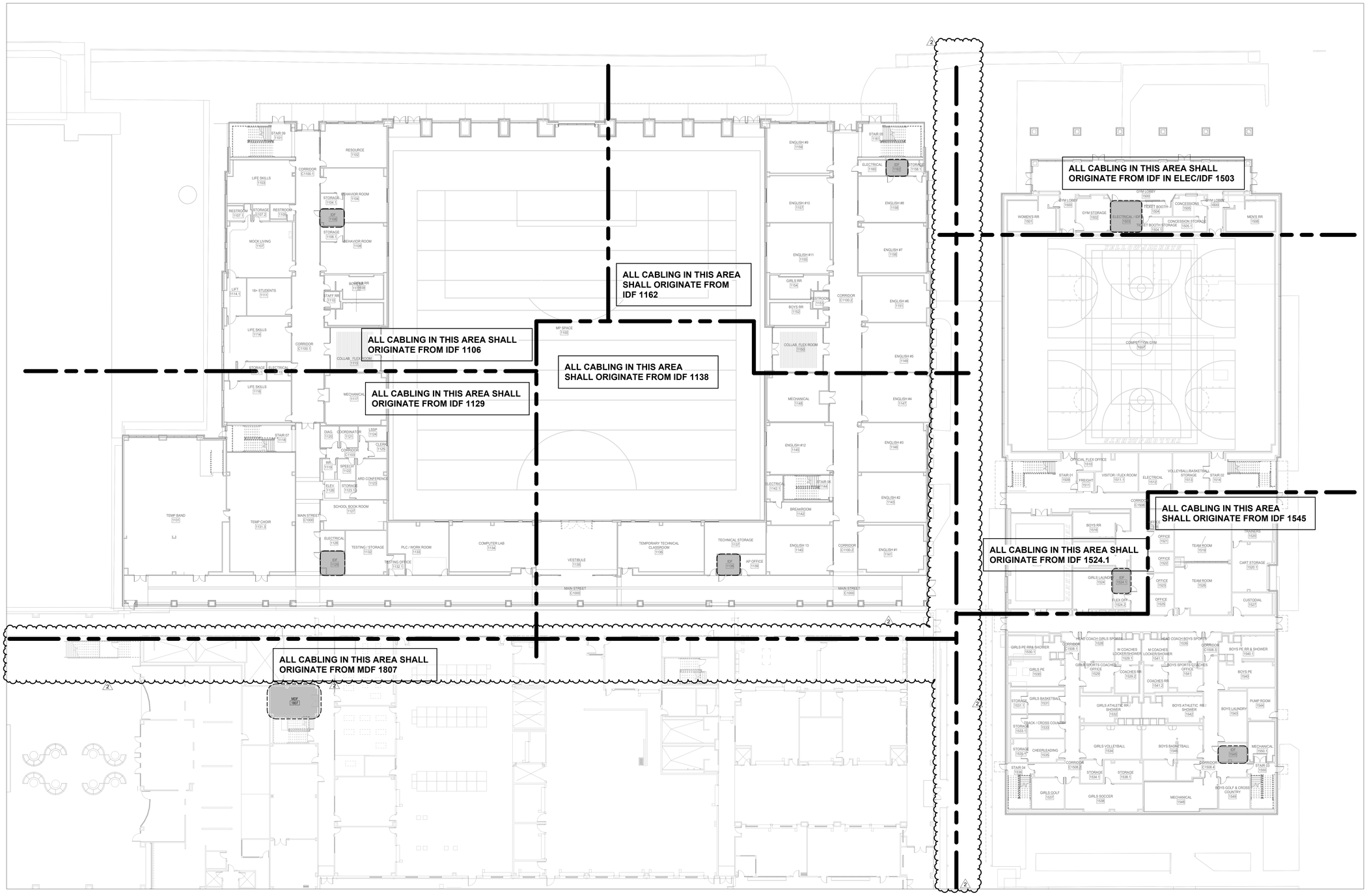
C. CABLING SHALL BE ROUTED FROM MDF TO EACH IDF AND FROM IDFs TO TELECOM OUTLETS. ROUTING IS DIAGRAMMATIC — CONTRACTOR SHALL FIELD VERIFY PATHWAYS AND COORDINATE WITH ARCHITECTURAL AND MEP CONDITIONS PRIOR TO INSTALLATION.

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 **1ST FLOOR TECHNOLOGY PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN**
SCALE: 1" = 20'-0"

1ST FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN
TN-101
FOR BLUEBEAM LABELING/DOCR:

Plot Stamp:
12/18/2025 11:41:41 AM

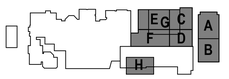
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CHECKED BY: CL

DRAWN BY: REN

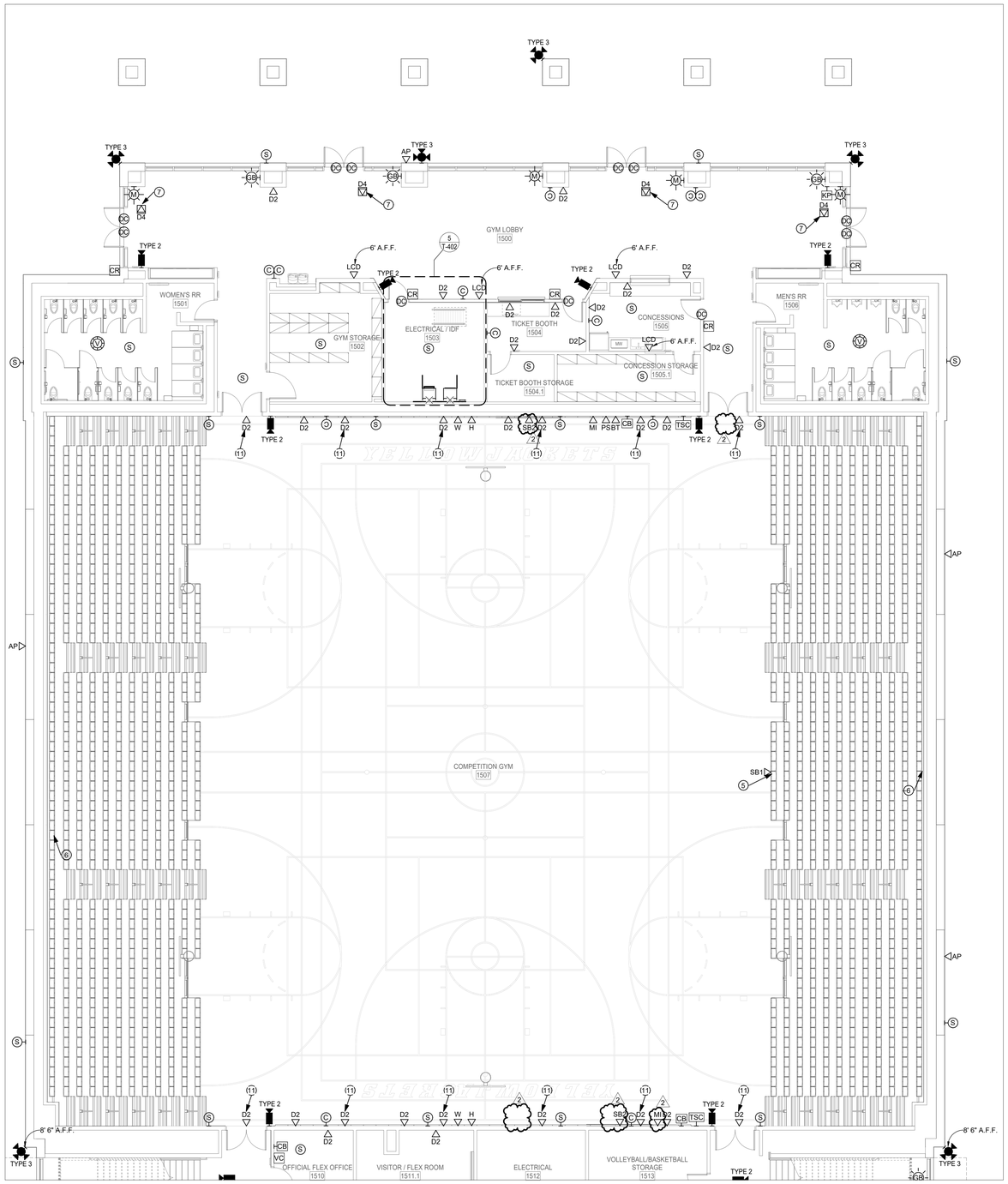
1ST FLOOR TECHNOLOGY PLAN - GYM & MP OVERALL FLOOR PLAN

TN-101

0"
1"

1ST FLOOR TECHNOLOGY PLAN - AREA A - GYM FLOOR PLAN
TN-101A

FOR BLUEBEAM LABELING/DOCR:



1 1ST FLOOR TECHNOLOGY PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:41:49 AM

TN-101A AND TN-102B AREA-SPECIFIC GENERAL NOTES.

- IN COMPETITION GYM AND AUXILIARY GYMS A & B, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND JUNCTION BOXES AS REQUIRED TO ESTABLISH A COMPLETE PATHWAY FOR NEVCO 'S TURNKEY SCORING SYSTEM INSTALLATION, WHICH WILL BE PERFORMED UNDER A SEPARATE CONTRACT. THE ESTIMATED CONDUIT LENGTH IS APPROXIMATELY 850 LINEAR FEET, WITH ROUTING COORDINATED PER ARCHITECTURAL AND TECHNOLOGY PLANS. JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE DRAWINGS OR AS REQUIRED FOR SYSTEM COMPONENTS. COORDINATE ALL ROUTING AND BOX PLACEMENT WITH NEVCO INSTALLER AND THE ARCHITECT PRIOR TO ROUGH-IN. ALL CONDUIT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NEC AND PROJECT SPECIFICATIONS. FINAL QUANTITIES AND LOCATIONS SHALL BE VERIFIED BY NEVCO.

2

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.
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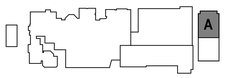
LEAF ENGINEERS

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

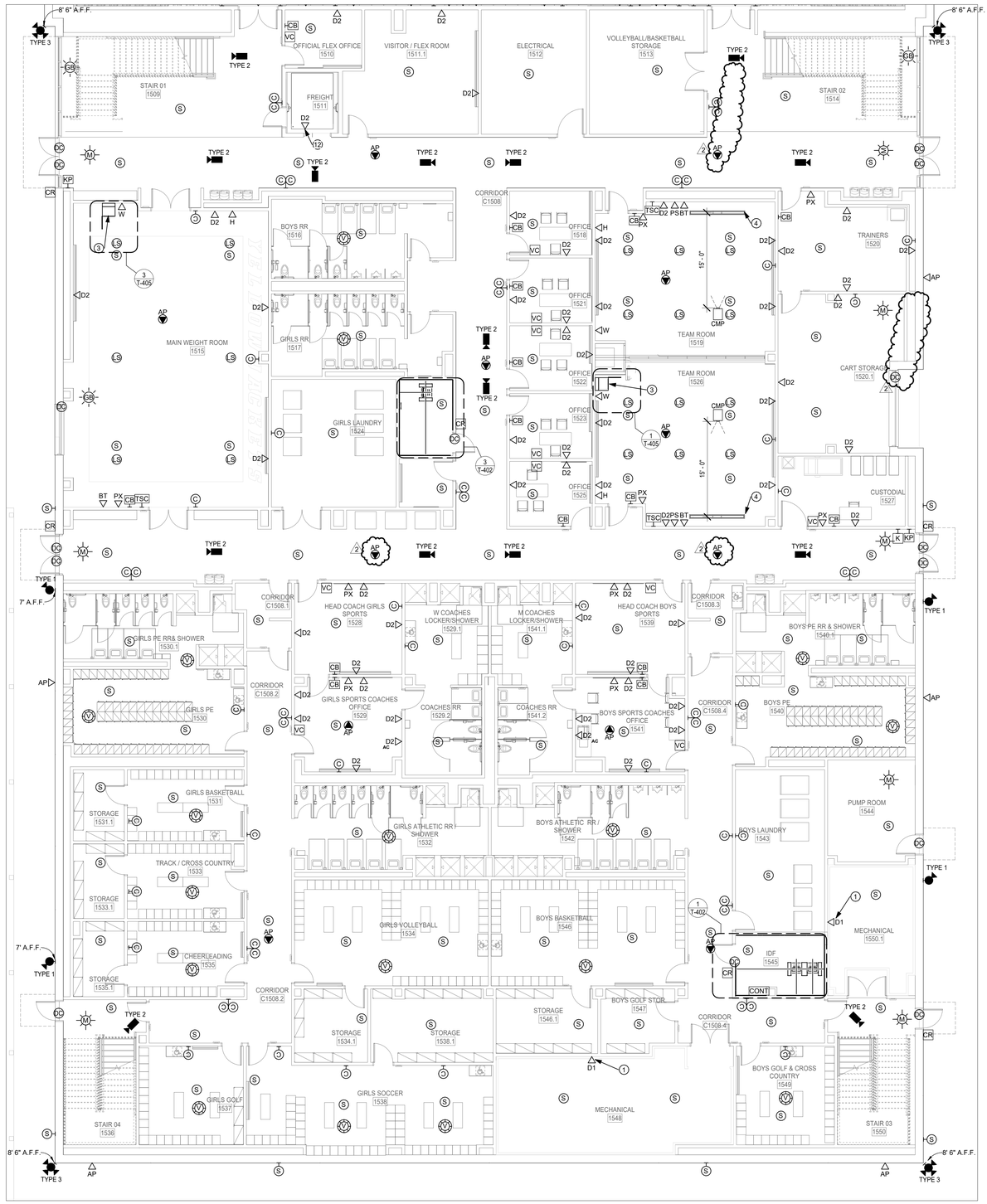
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA A - GYM FLOOR PLAN

TN-101A

0"

1"



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/DOCR:

Plot Stamp:
12/18/2025 11:42:08 AM

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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

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

TN-101B

0"
1"

1ST FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-101C

FOR BLUEBEAM LABELING/DOOR:

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1 1ST FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:15 AM

PBK

www.pbk.com

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
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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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-101C

0"
1"

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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 1ST FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:19 AM

1ST FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN
TN-101D
FOR BLUEBEAM LABELING/DCR:

PBK
www.pbk.com
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

D

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
2	ADDENDUM 3	12/19/2025

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 F - MP FACILITY FLOOR PLAN
TN-101F
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.

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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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1 1ST FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:24 AM

PBK
www.pbk.com
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

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

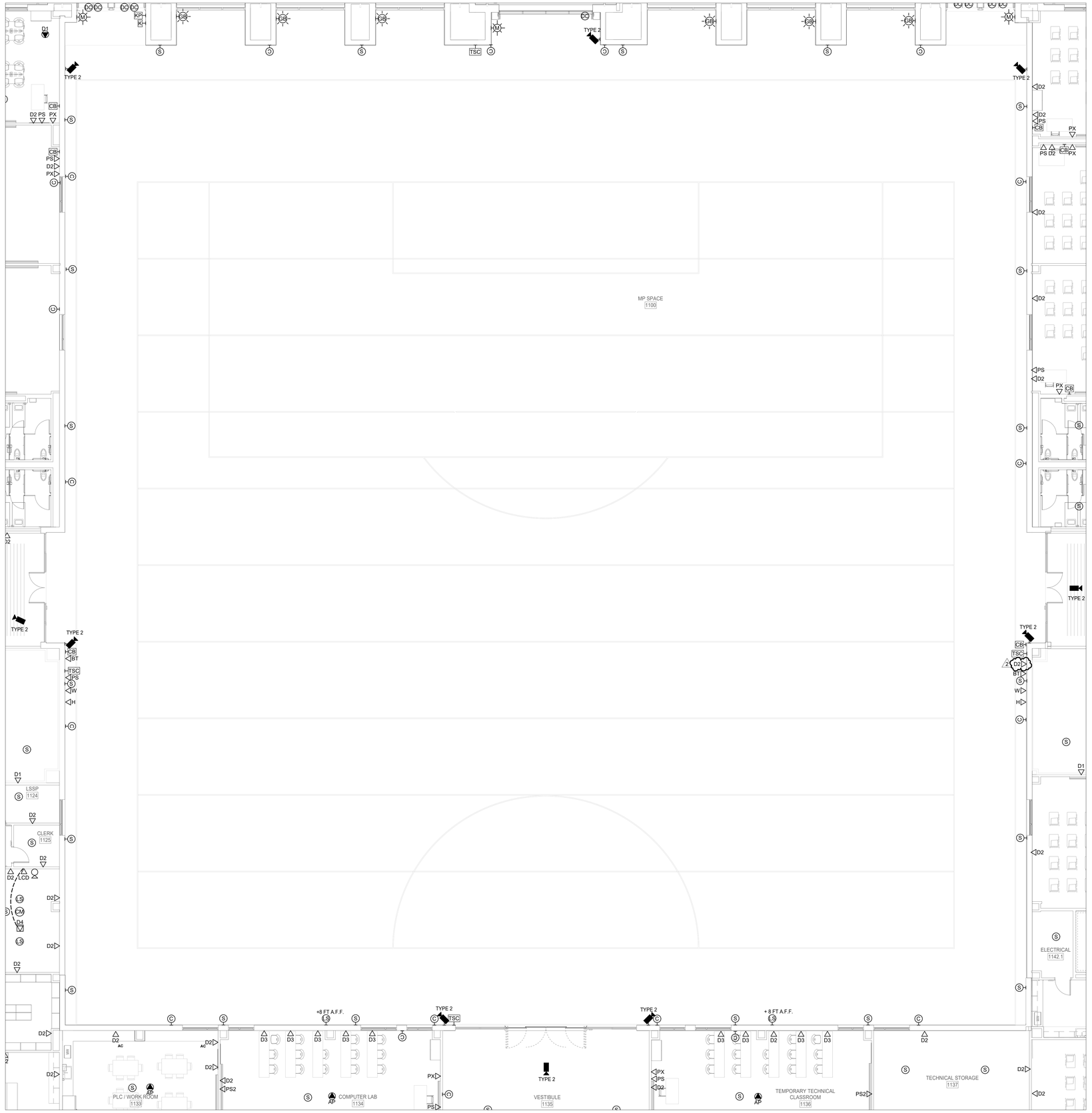
1ST FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-101F

1ST FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

TN-101G

FOR BLUEBEAM LABELING/DOOR:



1 1ST FLOOR TECHNOLOGY PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:28 AM

TECHNOLOGY PLAN GENERAL NOTES

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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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G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR 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. 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.
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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

G

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

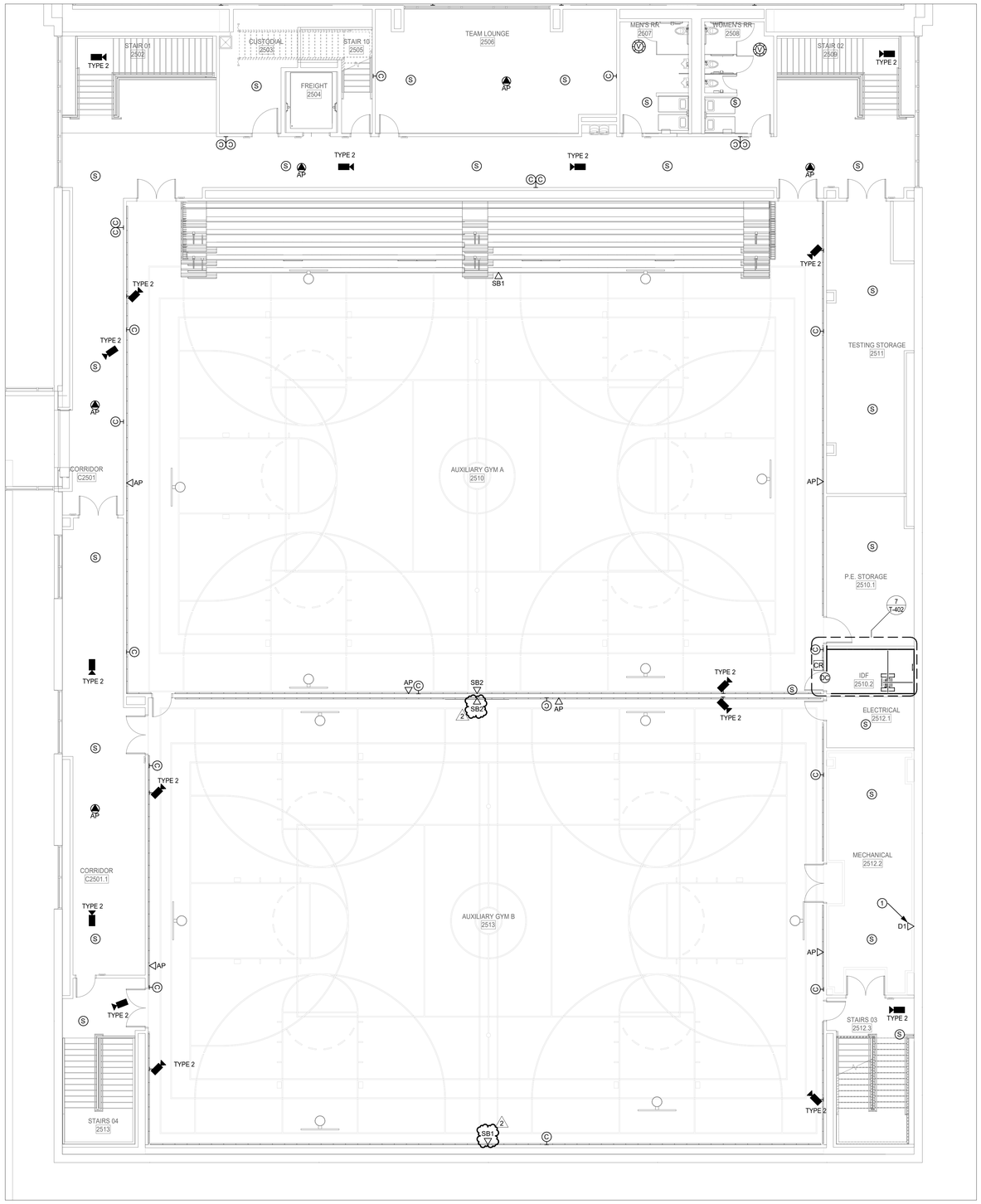
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA G - MP FACILITY FLOOR PLAN

TN-101G

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN
TN-102B
FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR TECHNOLOGY PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TN-101A AND TN-102B AREA-SPECIFIC GENERAL NOTES.

- IN COMPETITION GYM AND AUXILIARY GYMS A & B, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND JUNCTION BOXES AS REQUIRED TO ESTABLISH A COMPLETE PATHWAY FOR NEVCO 'S TURNKEY SCORING SYSTEM INSTALLATION, WHICH WILL BE PERFORMED UNDER A SEPARATE CONTRACT. THE ESTIMATED CONDUIT LENGTH IS APPROXIMATELY 850 LINEAR FEET, WITH ROUTING COORDINATED PER ARCHITECTURAL AND TECHNOLOGY PLANS. JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE DRAWINGS OR AS REQUIRED FOR SYSTEM COMPONENTS. COORDINATE ALL ROUTING AND BOX PLACEMENT WITH NEVCO INSTALLER AND THE ARCHITECT PRIOR TO ROUGH-IN. ALL CONDUIT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NEC AND PROJECT SPECIFICATIONS. FINAL QUANTITIES AND LOCATIONS SHALL BE VERIFIED BY NEVCO.

2

TECHNOLOGY PLAN GENERAL NOTES

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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. 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.
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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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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-18672

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

TN-102B

Plot Stamp:
12/18/2025 11:42:31 AM

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.

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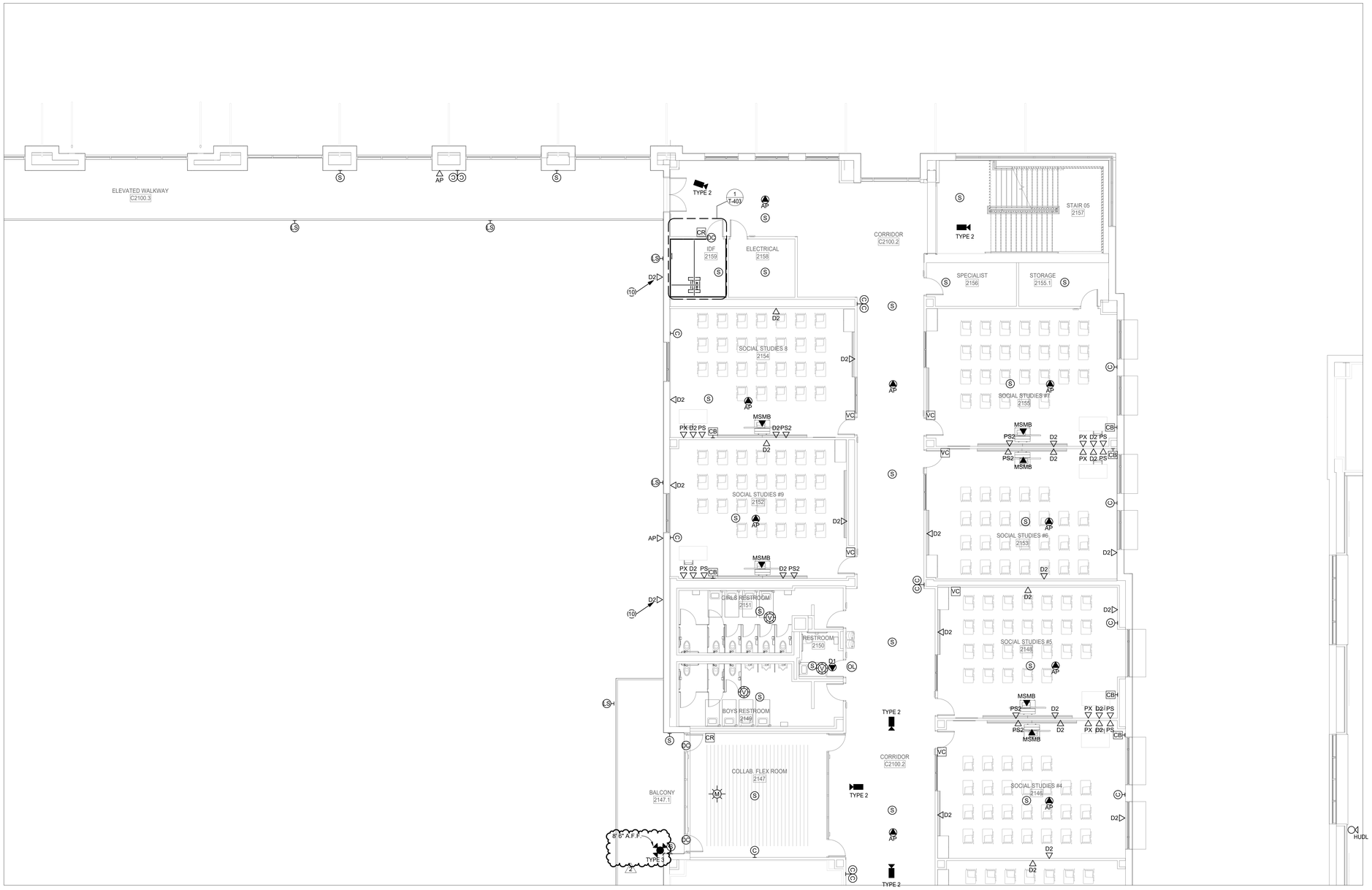
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1 2ND FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:36 AM

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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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-102C

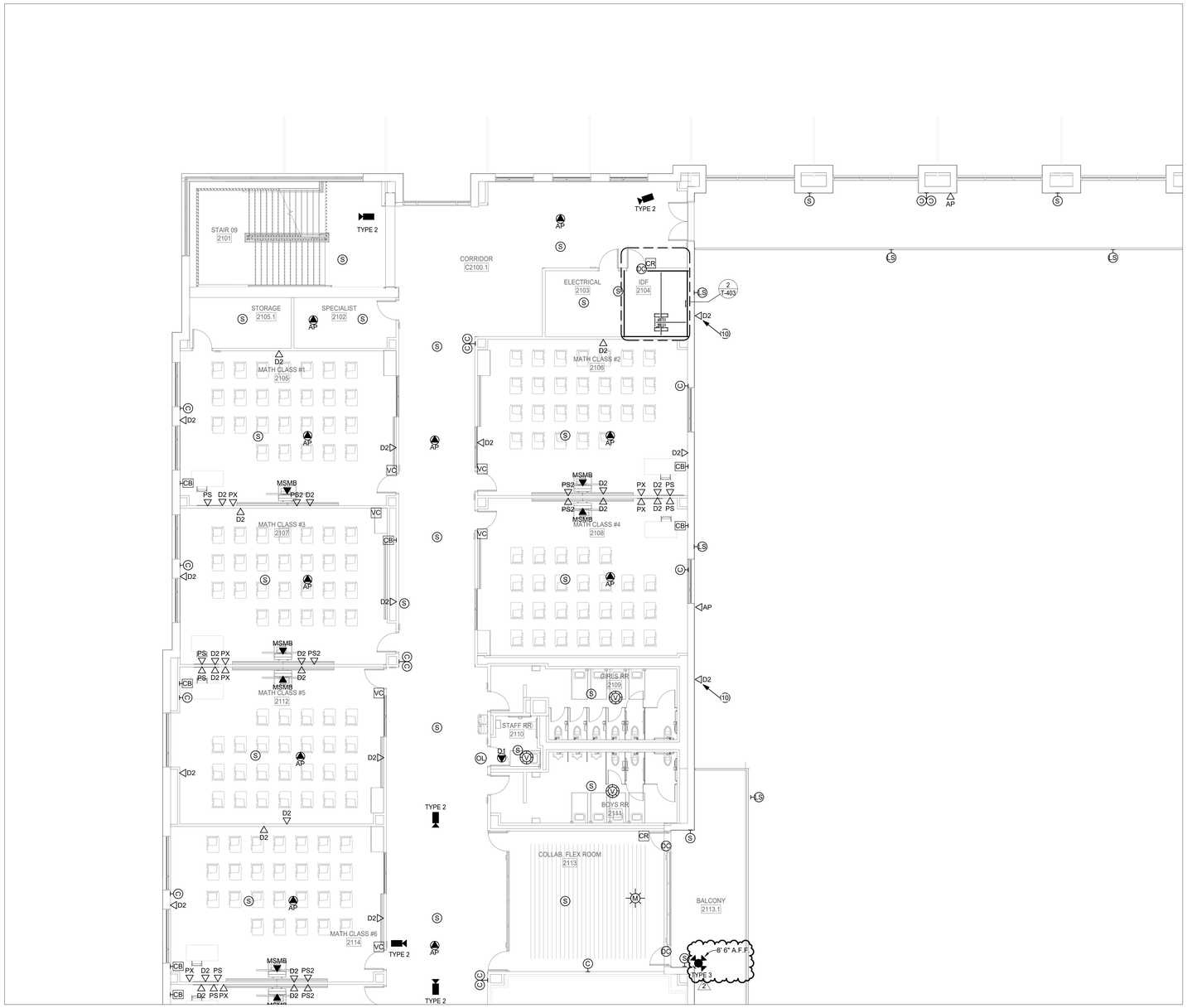
0"

1"

2ND FLOOR TECHNOLOGY PLAN - AREA 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"

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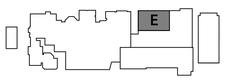
LEAF ENGINEERS

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Galena Park, TX 77547

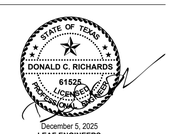
ISSUE FOR PROPOSAL

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-102E

Plot Stamp:
12/18/2025 11:42:42 AM

0"
1"

3RD FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-103C

FOR BLUEBEAM LABELING/DOOR:

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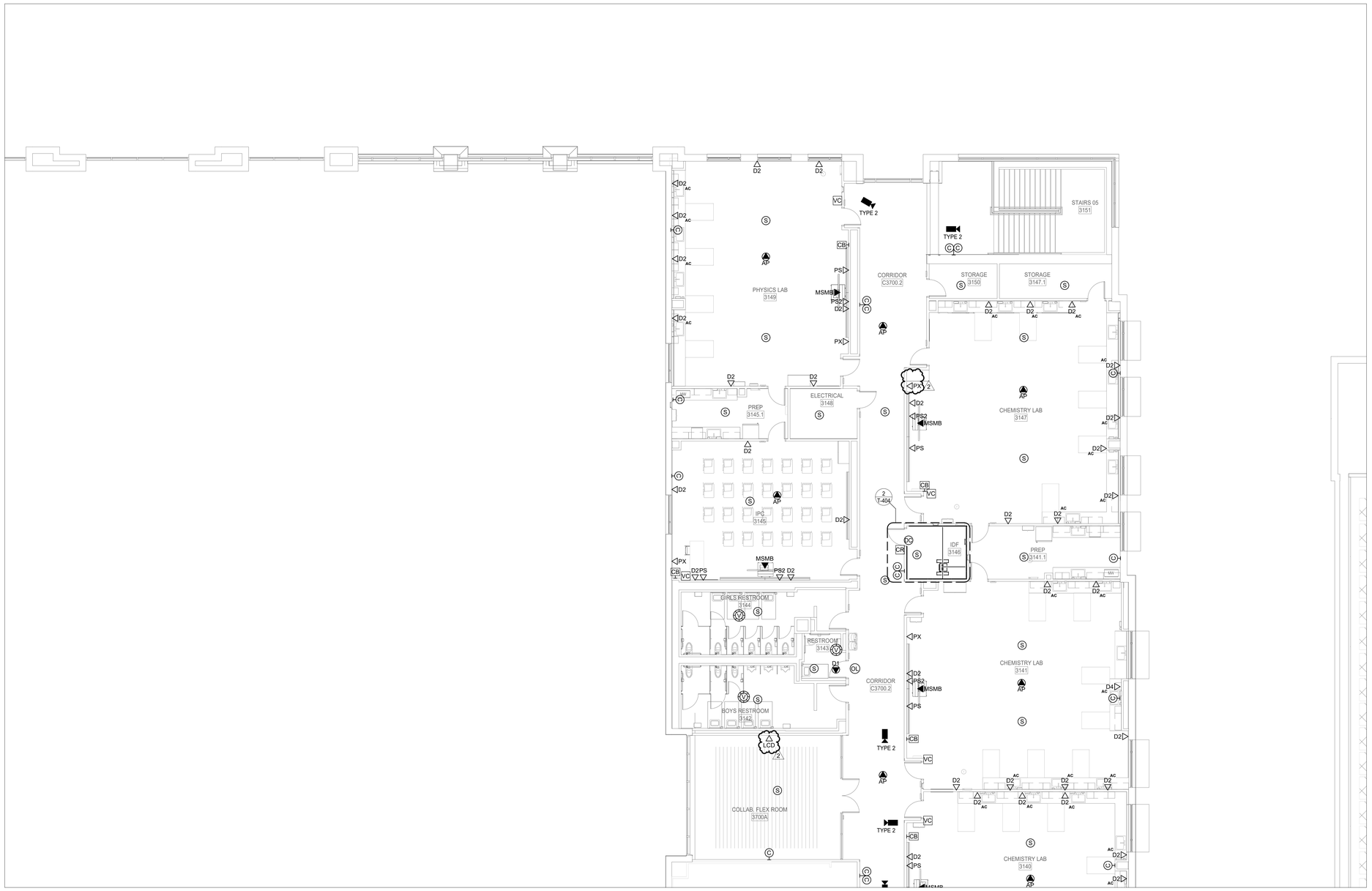
P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

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 C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:46 AM

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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

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
2	ADDENDUM 3	12/19/2025

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.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

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1 **3RD FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
12/18/2025 11:42:48 AM

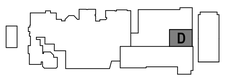
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LEAF ENGINEERS

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: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

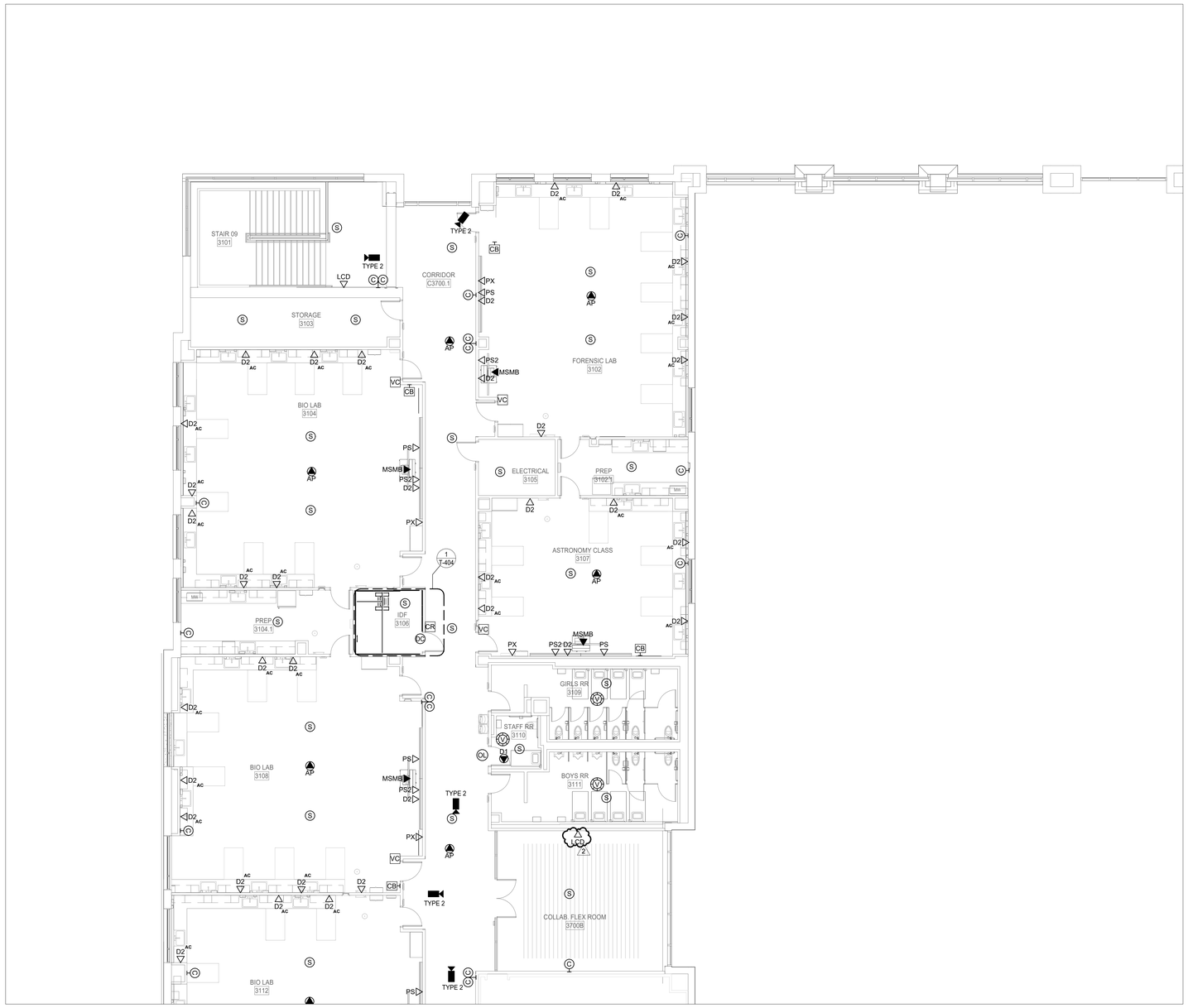
TN-103D

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"

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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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.
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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

E

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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-103E

Plot Stamp:
12/18/2025 11:42:52 AM

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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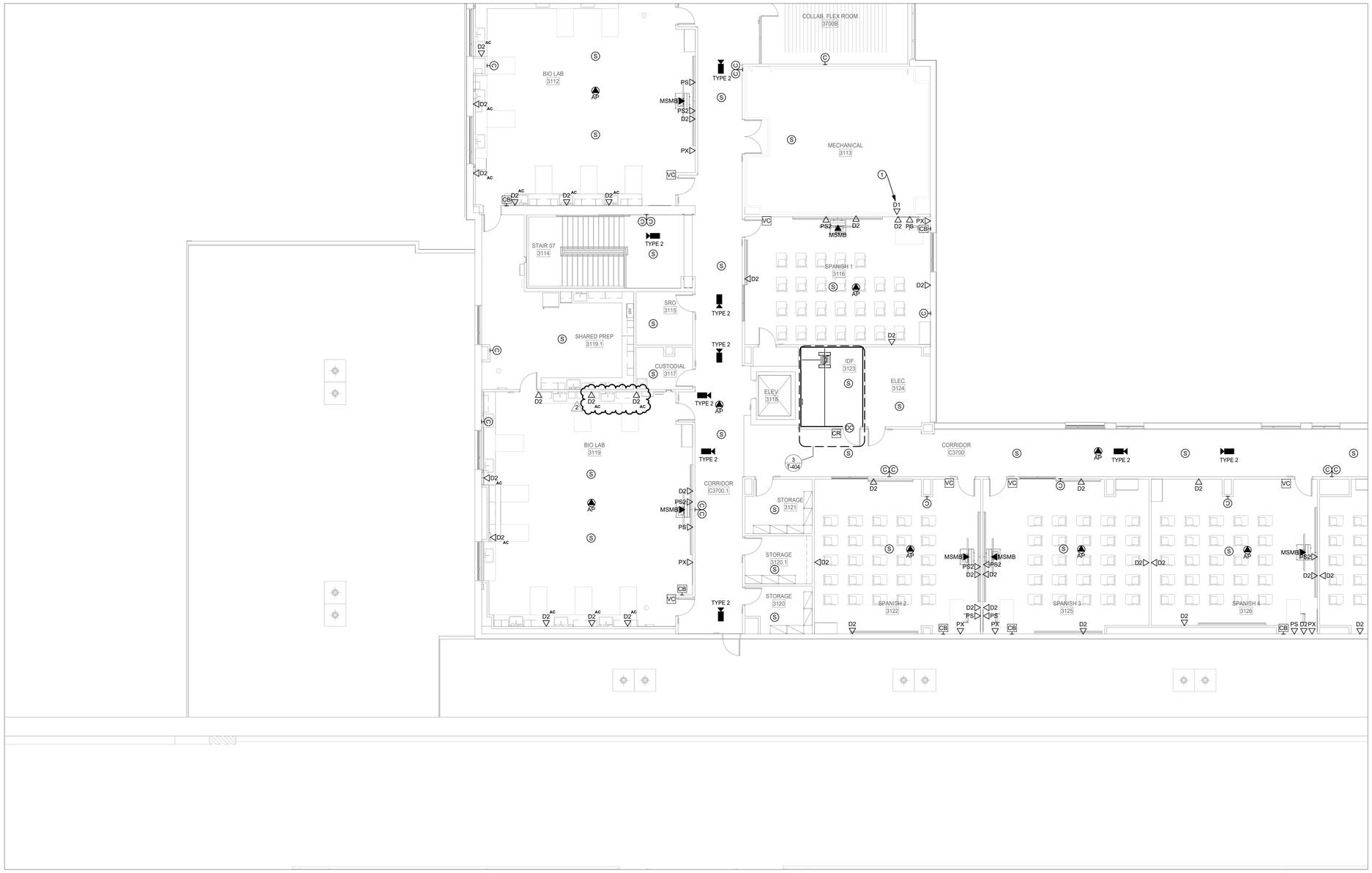
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3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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.
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1 **3RD FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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12/18/2025 11:42:54 AM

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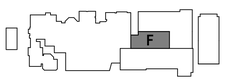
LEAF ENGINEERS

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
(INACTIVE)

December 5, 2025
LEAF ENGINEERS
F-18672

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-103F

0"

1"

FOR BLUEBEAM LABELING/DOCR:

ROOFTOP MEZZANINE TECHNOLOGY PLAN - MP MEZZANINE FLOOR PLAN

TN-104

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.

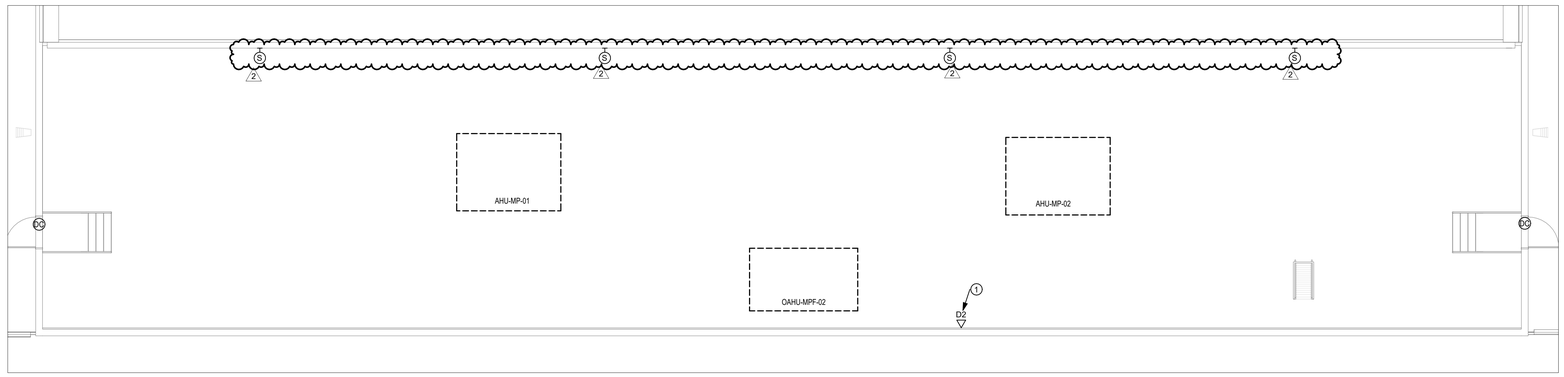
P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

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

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1 MULTIPURPOSE ENLARGED LEVEL 3 BOD MEZZANINE TECHNOLOGY (PLAN PLAN SOUTH ABOVE MAIN STREET)
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

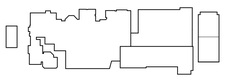
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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-16672

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

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL

DRAWN BY: REN

ROOFTOP MEZZANINE TECHNOLOGY PLAN - MP MEZZANINE FLOOR PLAN

TN-104

Plot Stamp:
12/18/2025 11:42:55 AM

0"

1"

TECHNOLOGY SECTION PLAN GENERAL NOTES

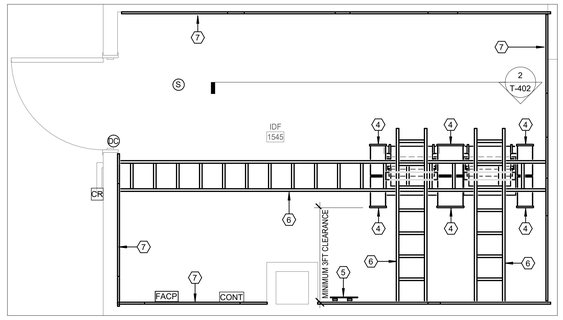
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. RACKS SHALL BE 45U 2-POST RACKS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

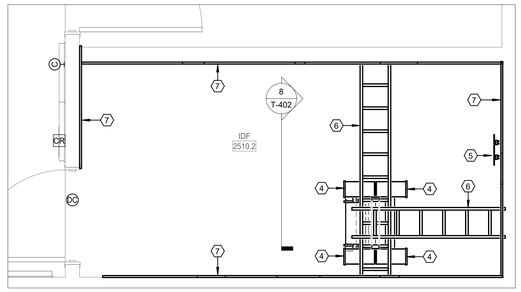
C. DRAWING SHOWS TYPICAL DISTRICT RACK LAYOUT FOR IDF RACK. IN THIS TYPICAL DESIGN, ASSUME 13U OF SPACE BETWEEN BOTTOM-MOST BLANK PLATE AND TOP-MOST UPS.

(#) TECHNOLOGY SECTION PLAN KEYED NOTES

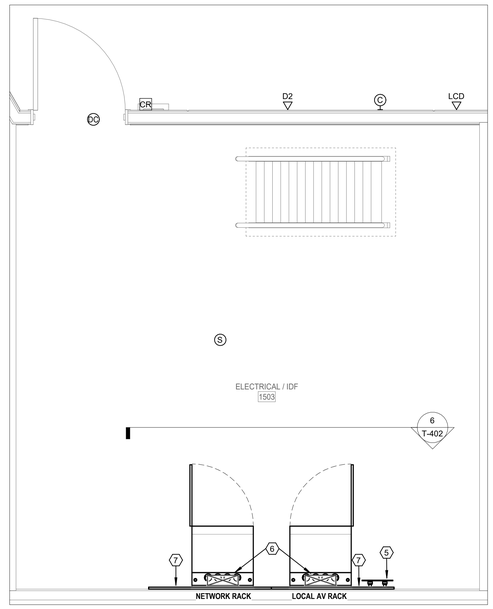
1. 24-PORT MODULAR PATCH PANEL
2. (2) 24-PORT OR (1) 2U 48-PORT MODULAR PATCH PANEL(S)
3. OFOI 48-PORT NETWORK SWITCH
4. SIDE-MOUNTED VERTICAL CABLE MANAGEMENT FOR 2-POST RACK
5. INDICATES GROUNDING BUS BAR.
6. INDICATES LADDER-STYLE CABLE TRAY FOR OVERHEAD CABLE ROUTING.
7. INDICATES TYPICAL FIRE-RATED PLYWOOD BACKBOARD MOUNTED LAGGED INTO METAL STUD BACKER.
8. INDICATES AV RACK INTENDED FOR HOUSING EQUIPMENT FOR MULTIPURPOSE SPACE.



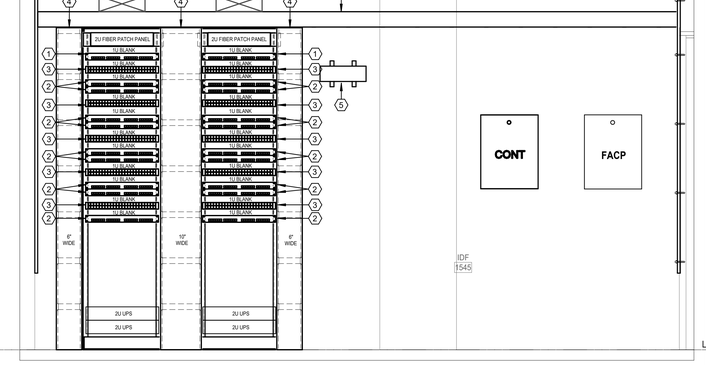
1 1ST FLOOR TECHNOLOGY PLAN - IDF 1545 ENLARGED
SCALE: 1/2" = 1'-0"



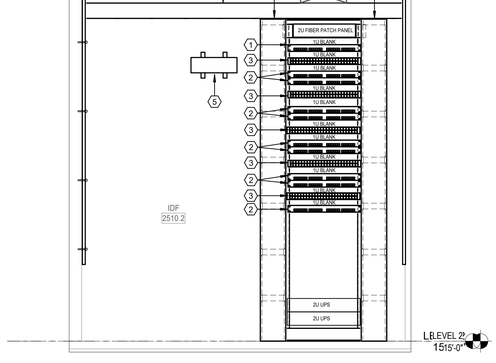
7 2ND FLOOR TECHNOLOGY PLAN - IDF 2510.2 ENLARGED
SCALE: 1/2" = 1'-0"



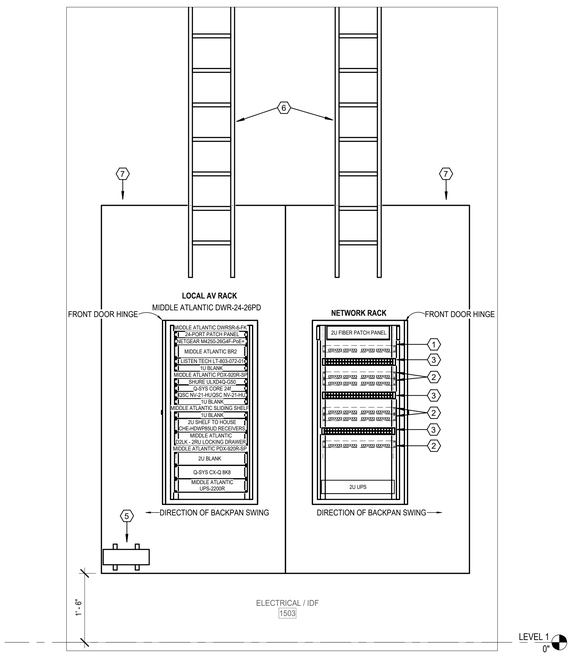
5 1ST FLOOR TECHNOLOGY PLAN - IDF ELEC/IDF 1503 ENLARGED
SCALE: 1/2" = 1'-0"



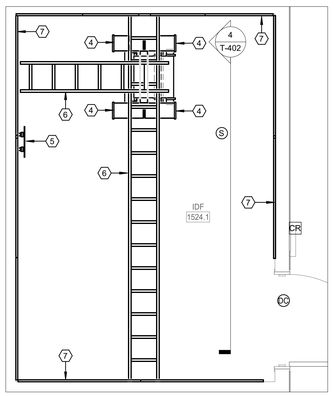
2 IDF 1545 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



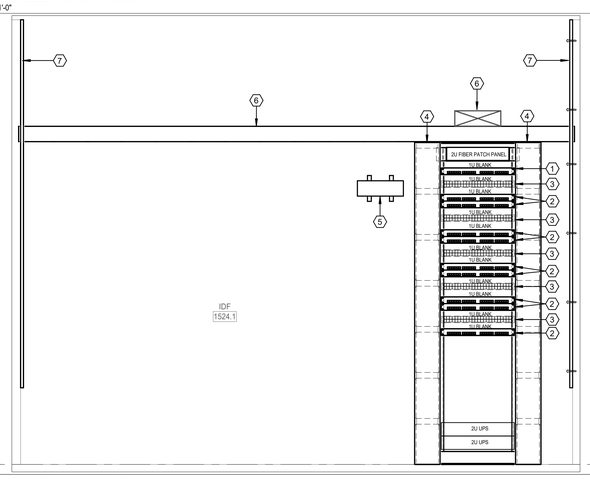
8 IDF 2510.2 ELEVATION VIEW
SCALE: 3/4" = 1'-0"



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"

TECHNOLOGY SECTIONS - 1ST & 2ND FLOOR GYM IDF CLOSETS
T-402

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

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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
2	ADDENDUM 3	12/19/2025

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - 1ST & 2ND FLOOR GYM IDF CLOSETS

T-402