HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY
NEW HIGH/ MIDDLE SCHOOL - CITY PLACE

22000 SPRINGWOODS VILLAGE PARKWAY,
SPRING , HARRIS COUNTY , TEXAS 77379



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100 % CONSTRUCTION DOCUMENTS
BID SET - JUNE 29TH, 2026

CAD NO: 1440310010001
TABS NO: 2026011714

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Drawing Conventions

PROPERTY LINE

NEW CONTOURS

EXISTING CONTOURS

TEST BORING

AREA DRAIN

EXISTING ELEVATION

FINISH GRADE ELEVATION

NORTH SYMBOL

COLUMN LINE

FLOOR LINE

MATCH LINE

ELEVATION SYMBOL

DOOR DESIGNATION

WINDOW DESIGNATION

PARTITION TYPE

REVISION NUMBER

PLAN OR DETAIL ENLARGED

DETAIL AND VERTICAL SECTIONS

DIMENSIONS - ALL DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED

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- MEDIUM DENSITY FIBER BOARD (MDF)
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- LOOSE FILL INSULATION
- RIGID INSULATION

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- GLASS

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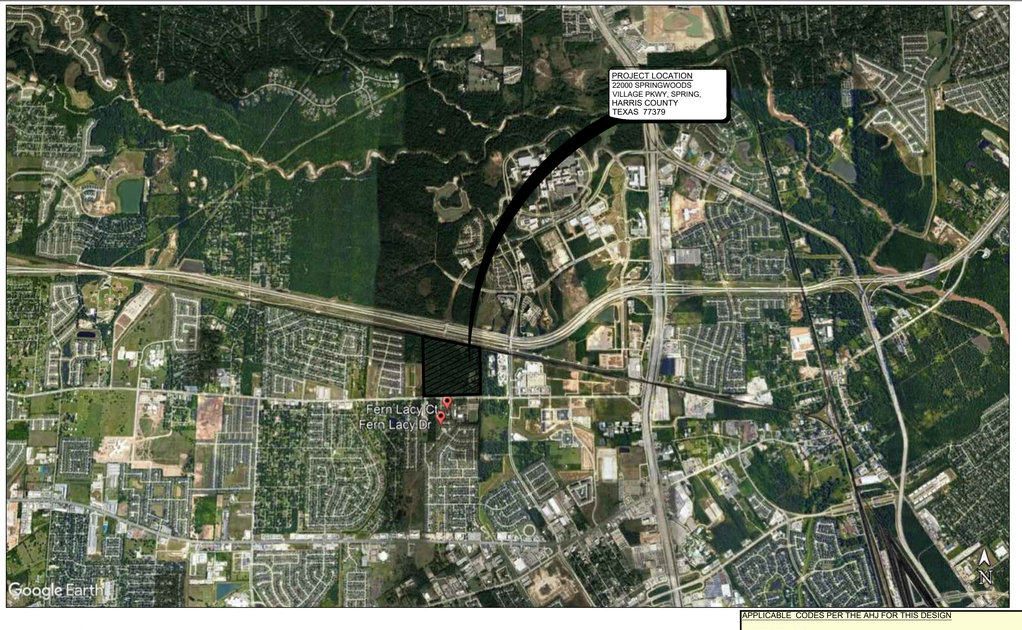
- LATH AND PLASTER
- GYPSUM BOARD

Abbreviations

A/C	AIR CONDITIONING
ACP.	ACOUSTICAL PANEL
ACT.	ACOUSTICAL TILE
A.D.	AREA DRAIN
A.D.A.	AMERICANS WITH DISABILITIES ACT
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
A.H.J.	ATHORITY HAVING JURISDICTION
ALUM	ALUMINUM
ALT.	ALTERNATE
∟	ANGLE
ASPH.	ASPHALT
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
B.U.R.	BUILT-UP ROOF
C	CHANNEL
CAB, CABT	CABINET
CFMF	COLD FORMED METAL FRAMING
C.J.	CONTROL JOINT
CL	CENTER LINE
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPRESSIBLE
CONC.	CONCRETE
COND.	CONDITION
CONT.	CONTINUOUS
CORR.	CORRIDOR
CPT.	CARPET
CT.	CERAMIC TILE
CTSK.	COUNTERSINK
C.W.	COLD WATER
D	DRYER
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
D.P.	DAMPPROOFING
DTL	DETAIL
D.S.	DOWN SPOUT
DWG.	DRAWING
EA.	EACH
EDF	ELECTRIC DRINKING FOUNTAIN
EL.	ELEVATION (HEIGHT)
ELEC., ELECT.	ELECTRICAL
ELEV.	ELEVATION (DRAWING)
E.J.	EXPANSION JOINT
EQ.	EQUAL
EQUIP	EQUIPMENT
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FB.	FACE BRICK
FD.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FIXT.	FIXTURE
FLR.	FLOOR
FLSHG.	FLASHING
FLUOR	FLUORESCENT
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
CMBU	GLAZED CONCRETE MASONRY UNIT
GEN.	GENERAL
G.I.	GALVANIZED IRON
GL.	GLASS
GR.	GRADE
GTP.	GLAZED TILE PAVER
GYP.	GYPSUM
HC	HANDICAPPED ACCESSIBLE
HT.	HEIGHT
HORIZ	HORIZONTAL
HM	HOLLOW METAL FRAME
H.W.	HOT WATER
I.D.	INSIDE DIAMETER
INSUL	INSULATION
INT.	INTERIOR
I.P.S.	IRON PIPE SIZE
JT.	JOINT
LAM.	LAMINATE
LAV.	LAVATORY
L.P.	LIGHT POLE
LT.	LIGHT
LT. WT.	LIGHT WEIGHT
MANUF., MFR.	MANUFACTURER
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
MB.	MARKER BOARD
MECH.	MECHANICAL
MEM.	MEMBRANE
MEM. WP.	MEMBRANE WATERPROOFING
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MEZZ.	MEZZANINE
M.H.	MAN HOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MOD.	MODULE
MTL.	METAL
MTP.	METAL TOILET PARTITION
N.D.	NAPKIN DISPOSAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
N.V.	NAPKIN VENDOR
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
O.H.	OPPOSITE HAND
OPNG.	OPENING
OPP.	OPPOSITE
P.C.	PRECAST
P.H.	PAPER HOLDER
PL.	PLATE
P.L.	PROPERTY LINE
P. LAM.	PLASTIC LAMINATE
PLUMB.	PLUMBING
PLWD.	PLYWOOD
POL.	POLISHED
P.P.	POWER POLE
PR.	PAIR
PREFIN.	PREFINISHED
PT.	POINT
PTD.	PAINTED
P.W.B.	PREFINISHED WALL BOARD
QT.	QUARRY TILE
R	RADIUS
RD.	ROOF DRAIN
RE., REF.	REFERENCE
RECP.	RECEPTACLE
REINF.	REINFORCE
RES.	RESILIENT
REQ., REQ'D.	REQUIRED
REV.	REVISION, REVISED
RF	RECREATIONAL RESILIENT FLOOR
RPG.	RELOCATABLE PAINTED GYP. BD.
RSS.	ROD STOCK AND SEALANT
S.C.	SEALED CONCRETE
SCH., SCHED.	SCHEDULE(D)
SCPL	SOLID CORE PLASTIC LAMINATE
S.D.	SOAP DISPENSER
SEC.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SPC.	SPECIAL COATING SYSTEM
SPEC., SPECS.	SPECIFICATIONS
SQ.	SQUARE
SS.	SOUND STRIP
S.S., ST. STL.	STAINLESS STEEL
STL.	STEEL
STR., STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SVF	SHEET VINYL FLOORING
SVDF	SHEET VINYL DANCE FLOORING
T.A.S.	TEXAS ACCESSIBLITY STANDARDS
T.B.	TACK BOARD
T.D.R.	TOWEL DISPENSER & RECEPT.
TEL	TELEPHONE
TERR.	TERRAZZO
THK.	THICK
T.O.	TOP OF
T.O.B.	TOP OF (WOOD) BLOCKING
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
T.T.D.	TOILET TISSUE DISPENSER
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
V	VENT
V.C.T.	VINYL COMPOSITE TILE
VENT.	VENTILATING, VENTILATED
VER.	VERIFY
VERT.	VERTICAL
VGB	(PREFINISHED) VINYL CLAD GYPSUM BOARD
V.I.F.	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W	WASHING MACHINE
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.P.	WATERPROOFING
W.S.	WEATHERSTRIP
WT.	WEIGHT
W.W.	WATER WELL
W.W.F.	WELDED WIRE FABRIC

Site Location Map



TRUE NORTH

APPLICABLE CODES PER THE AHJ FOR THIS DESIGN

HARRIS COUNTY

HARRIS COUNTRY MUNICIPAL UTILITY DISTRICT "HC MUD" No. 458

BUILDING CODE	2021 IBC - ONLY CHAPTERS 2-10, WITH HARRIS COUNTY AMENDMENTS
FIRE CODE	2021 IFC, WITH HARRIS COUNTY AMMENDMENTS
MECHANICAL CODE	2021 IMC
ELECTRICAL CODE	2021 NFPA 70 (NEC)
PLUMBING CODE	2021

FIRE PROTECTION STANDARDS:

2021 NFPA 13	FIRE SPRINKLERS - COMMERCIAL BUILDINGS
2021 NFPA 72	FIRE ALARM
2021 NFPA 10	PORTABLE FIRE EXTINGUISHERS
2021 NFPA 24	INSTALLATION OF PRIVATE FIRE SERVICE MAINS
2021 NFPA 96	VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING

TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR):
2012 TEXAS ACCESSIBILITY STANDARDS

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TA-600	AUDIO / VISUAL DIAGRAMS
TA-601	AUDIO / VISUAL DIAGRAMS

PUBLIC ADDRESS

TPA-000	PUBLIC ADDRESS SYMBOLS & LEGEND
TPA-100	PUBLIC ADDRESS FLOOR PLAN - OVERALL
TPA-400	PUBLIC ADDRESS TYPICAL DETAILS

SECURITY

TS-000	SECURITY SYMBOLS & LEGEND
TS-001	SECURITY SITE PLAN
TS-101	SECURITY FLOOR PLAN - OVERALL
TS-400	SECURITY TYPICAL DETAILS
TS-401	SECURITY TYPICAL DETAILS
TS-500	SECURITY SCHEDULE

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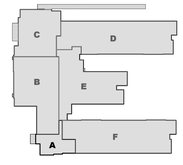
REGISTERED ARCHITECT — EDWARD D. GIGNAC — 23256 — STATE OF TEXAS

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
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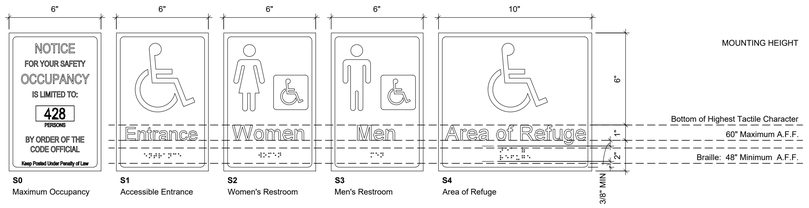
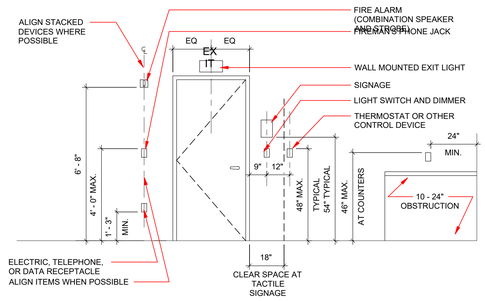
No.	Description	Date

Sheet Title:
DRAWING INDEX AND CONVENTIONS

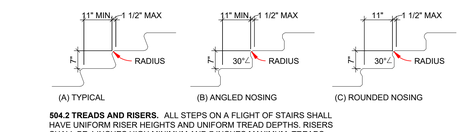
G-001



REQUIRED SIGNAGE
SCALE: 3" = 1'-0"



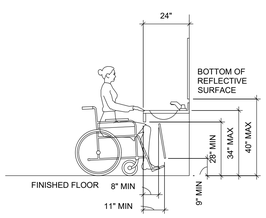
D1 MISCELLANEOUS HEIGHTS
SCALE: 3/8" = 1'-0"



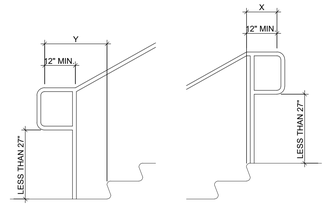
504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES MAXIMUM. TREADS SHALL BE 11 INCHES DEEP MINIMUM

504.5 NOSINGS. THE RADIUS CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSINGS THAT PROJECT BEYOND THE RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2 INCHES MAXIMUM OVER THE TREAD BELOW.

D3 TREAD WIDTH AND NOSINGS
SCALE: 1/2" = 1'-0"

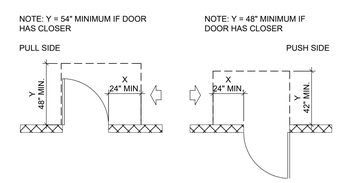


C1 LAVATORY CLEARANCES
SCALE: 3/8" = 1'-0"

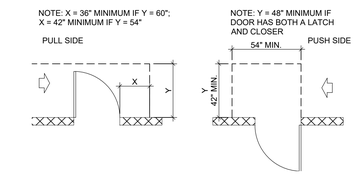


NOTE:
X IS THE 12" MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER.
Y IS THE MINIMUM HANDRAIL EXTENSION OF 12" PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT THE BOTTOM RISER.

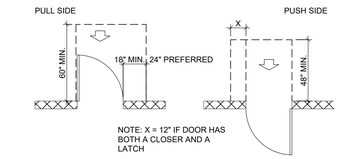
C3 STAIR HANDRAILS
SCALE: 1/2" = 1'-0"



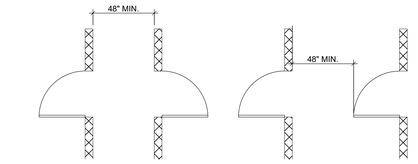
E4 LATCH SIDE APPROACH DOORS
SCALE: 1/4" = 1'-0"



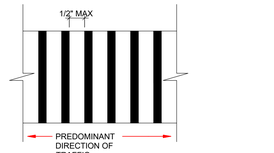
D4 HINGE SIDE APPROACH DOORS
SCALE: 1/4" = 1'-0"



C4 FRONT APPROACH DOORS
SCALE: 1/4" = 1'-0"

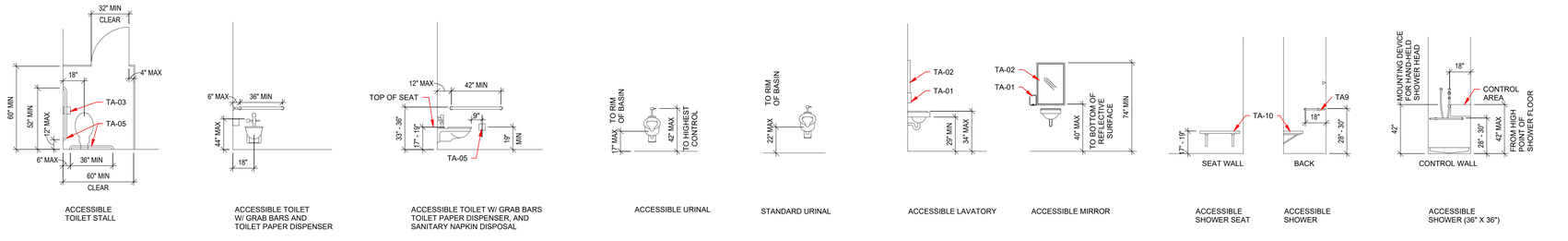


E6 TWO HINGED DOOR IN SERIES
SCALE: 1/4" = 1'-0"

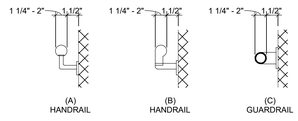


302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

D6 GRATINGS IN ACCESSIBLE ROUTES
SCALE: 6" = 1'-0"



A1 MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"



C6 SIZE AND SPACING OF HANDRAILS AND GRAB BARS
SCALE: 1 1/2" = 1'-0"

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	18" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-09	RECESSED 12 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-10	SURFACE MOUNTED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	
		ACCESSIBLE	
TA-11	MOP AND BROOM HOLDER		
TA-12	CUSTODIAL SURFACE MOUNTED ,2 GAL PAPER TOWEL DISPENSER	STANDARD	
		ACCESSIBLE	
TA-13	RECESSED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)		
TA-14	WALL MOUNTED BABY CHANGING TABLE (MEASURED FROM FLOOR TO CENTERLINE OF HINGE)	ACCESSIBLE	30"

NOTE: ALL TOILET ACCESSORIES AND DISPENSERS ARE TO BE SELECTED BY OWNER FROM ITEMS IN FINISH SCHEDULE. VERIFY ALL PATTERNS INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.

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REGISTERED ARCHITECT
RAYMOND D. GIGNAC
STATE OF TEXAS
22755

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
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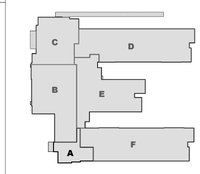

KEYPLAN

Project Number: 24.23
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Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
ADA GUIDELINES

G-002

ALL PERMIT SUBMITTALS ARE COMPLIANT WITH THE FOLLOWING CODES, RELATED MUNICIPAL ORDINANCES, AMENDMENTS, AND REQUIREMENTS:
2021 IBC, IPC, IMC
2021 NEC
2021 IFC, IECC
2012 TAS (ADA)

CODE REVIEW - IBC 2021

1. PROJECT: HARMONY PUBLIC SCHOOLS – SCIENCE ACADEMY, MIDDLE SCHOOL, HIGH SCHOOL, CITY PLACE, HARRIS COUNTY
2. LOCATION: 22000 & 21900 SPRINGWOODS VILLAGE PKWY, SPRING, TX 77379
3. PRIMARY OCCUPANCY: (SECT. 305) USE GROUP CLASS: E1, EDUCATIONAL
4. SECONDARY OCCUPANCY: (SECT. 303) USE GROUP: A-2 & A-3 (ASSEMBLY USES THAT ARE ACCESSORY TO GROUP E ARE NOT CONSIDERED SEPARATE OCCUPANCIES PER SECTION 303.1.3)
5. TYPE OF CONSTRUCTION (TAB. 506.2): II-B (NON-RATED)
6. AUTOMATIC FIRE SUPPRESSION: YES
7. ACTUAL BUILDING AREA (SF): AREA #1 = 63,524 + AREA #2 = 16,121 TOTAL AREA = 79,645 SF

FACTOR INCREASE BASED ON FRONTAGE (SECTION 506.3.3)

$$I_f = \left[\frac{F}{P} - 0.25\right]\frac{W}{30} \longrightarrow I_f = \left[\frac{1,737}{1,737} - 0.25\right]\frac{30}{30} = .75$$

8. BUILDING AREA & HEIGHT LIMITATIONS: (TAB 506.2)
   - GROUP "E" (TAB 506.2): 58,000 SF / 75' HT / 3 STORY
   - FRONTAGE AREA INCREASE (TAB 506.3.3): 75%
   - BUIDING HEIGHT (TAB 504.3): 75' HT. W/AUTOMATIC SPRINKLER SYSTEM
   - NUMBER OF STORIES (TAB 504.4): 3 STORIES W/AUTOMATIC SPRINKLER SYSTEM
   - TOTAL MAXIMUM ALLOWABLE AREA EQUATION (506.2.3):

$$Aa = [At + (NS \times If)] \times Sa \longrightarrow Aa = [58{,}000 + (14{,}500 \times .75)] \times 1$$

$$Aa = 58{,}000 + 10{,}875 \times 1$$

   - TOTAL MAXIMUM ALLOWABLE AREA: AREA #1 – 68,875 SF (ALLOWABLE) 63,524(PROPOSED); AREA #2 – 68,875 SF (ALLOWABLE) 16,121(PROPOSED); TOTAL AREA PROPOSED 79,645 SQFT
9. FIRE PROTECTION REQUIREMENTS:

STRUCTURAL FRAME: (TAB. 601)	0 HR
INT./EXT. BEARING WALLS: (TAB. 601)	0 HR
FLOOR/CEILING: (TAB. 601)	0 HR
ROOF/CEILING: (TAB. 601)	0 HR
	0 HR
EXT. WALLS: (TAB. 602) – LESS THAN 5'	1 HR
–GREATER THAN 5' LESS THAN 10'	1 HR
–GREATER THAN 10' LESS THAN 30'	0 HR
–GREATER THAN 30'	0 HR
CORRIDORS: (TAB. 1020.1)	0 HR

10. OCCUPANCY SEPARATION REQ'S.:
    - MAJOR OCCUPANCIES: (TAB. 508.4)
    - INCIDENTAL USE AREAS: (TAB. 509)
      - LABORATORIES/VOCATIONAL SHOPS/SIM. ROOMS: 1 HR SEPARATION OR PROVIDE AUTOMATIC SPRINKLER SYSTEM
      - LAUNDRY ROOMS: (OVER 100SF) 1 HR SEPARATION OR PROVIDE AUTOMATIC SPRINKLER SYSTEM
11. MISC. REQUIREMENTS: CEILING HEIGHT (SEC. 1003.2) – MIN. 7'–6"
12. OCCUPANT LOAD (SECTION 1004) (TABLE 1004.1.2)
    - GYMNASIUM NET 7,678 S.F. (NO. OF FIXED SEATS + 5861 SQFT/50 S.F/PERSON) = 387 + 117 = 504 OCCUPANTS
    - DINING NET 5,568 S.F. (15 S.F./PERSON) = 371 OCCUPANTS
    - BUSINESS NET 4126 S.F. (100 S.F./PERSON) = 41 OCCUPANTS
    - EDUCATION NET 39,326 S.F. (20 S.F./PERSON) = 1966 OCCUPANTS
    - MECH./STORAGE NET 23,045 S.F. (300 S.F./PERSON) = 76 OCCUPANTS
    - PLATFORMS NET 620 S.F. (15 S.F./PERSON) = 41 OCCUPANTS
    - TOTAL OCCUPANT LOAD = 2,999

PLUMBING FIXTURE COUNT

TYPE OF OCCUPANCY: EDUCATIONAL — TOTAL # OCCUPANTS: 1,966

# OF MALES: 983			# OF FEMALES: 983		
	REQ'D. 1/50	PROV'D.		REQ'D. 1/50	PROV'D.
TLTS.	19.66	12	TLTS.	19.66	20
URIN.	(8) SUBST. FOR 8 TLTS.		–	–	–
LAVS.	9.83	17	LAVS.	9.83	17

TYPE OF OCCUPANCY: STORAGE — TOTAL # OCCUPANTS: 76

# OF MALES: 38			# OF FEMALES: 38		
	REQ'D.	PROV'D.		REQ'D.	PROV'D.
TLTS.	0.380	1	TLTS.	0.380	1
URIN.			–	–	
LAVS.	0.380	1	LAVS.	0.380	1

TYPE OF OCCUPANCY: BUSINESS — TOTAL # OCCUPANTS: 41

# OF MALES: 20.5			# OF FEMALES: 20.5		
	REQ'D.	PROV'D.		REQ'D.	PROV'D.
TLTS.	0.82	1	TLTS.	0.82	1
URIN.			–	–	–
LAVS.	0.50	1	LAVS.	0.50	1

TYPE OF OCCUPANCY: ASSEMBLY — TOTAL # OCCUPANTS: 504

# OF MALES: 252			# OF FEMALES: 252		
	REQ'D.	PROV'D.		REQ'D.	PROV'D.
TLTS.	2.01	2	TLTS.	3.87	5
URIN.		2	–	–	–
LAVS.	2.52	3	LAVS.	2.52	3

BUILDING TOTALS

	MALES			FEMALES	
	REQ'D.	PROV'D.		REQ'D.	PROV'D.
TLTS.	22.87	20	TLTS.	24.73	20
URIN.	(7) SUBST. FOR 7 TLTS.		–	–	–
LAVS.	14.80	16	LAVS.	14.80	16

DRINKING FOUNTAINS REQ'D.: 5.99 PROV'D.: 20
SERVICE SINK REQ'D.: 1 PROV'D.: 1

PLUMBING FIXTURE COUNT — TRACK AND FIELD TOTALS

TYPE OF OCCUPANCY: ACCESSORY A-5 (WHEN TRACK AND FIELD IN USE) — TOTAL # OCCUPANTS: 1,068

# OF MALES: 534			# OF FEMALES: 534		
	REQ'D. 1/75	PROV'D.		REQ'D. 1/40	PROV'D.
TLTS.	7.09	12	TLTS.	13.35	20
URIN.		8	–	–	–
LAVS.	2.67	17	LAVS.	2.67	17

DRINKING FOUNTAINS REQUIRED : 2.13 PROVIDED : 20

13. REQUIRED EGRESS WIDTHS:
    - MINIMUM CORRIDOR WIDTH ALLOWANCE: (SEC 1020.2, TABLE 1020.2) – NOT LESS THAN 44" MIN.
    - (GROUP E OCCUPANCY): (SEC 1020.2) 6'–0" MIN. W/ 100+ OCC.
    - REQUIRED EGRESS CAPACITY BASED ON OCCUPANT LOAD: (SEC 1005.3.1) – FOR STAIRWAYS: .3"/OCC; (SEC 1005.3.2) – FOR OTHER: .2"/OCC
    - NUMBER OF EXITS REQUIRED: (TABLE 1006.2.1) – 1(1–49), '2' OCC; (TABLE 1006.3.1) – 2(1–500), 3(501–1000), 4(1000+)
    - MINIMUM TOTAL EXIT WIDTH REQUIRED: DINING – 309 (OCC) x .2 = 62"; GYMNASIUM – 322 (OCC) x .2 = 64"
    - EXIT WIDTH PROVIDED TO CORRIDOR: DINING: 180"
    - EXIT WIDTH PROVIDED TO CORRIDOR: GYMNASIUM: 144"
    - EXIT WIDTH PROVIDED TO EXTERIOR: DINING: 144"
    - EXIT WIDTH PROVIDED TO EXTERIOR: GYMNASIUM: 144"
    - MAXIMUM TRAVEL DISTANCE TO AN EXIT: (TABLE 1017.2) – 200' (W/ SPRINKLERS – 250')
    - MAXIMUM LENGTH OF DEAD END CORRIDORS: (SEC 1020.4) – 20' (W/ SPRINKLERS – 50')
    - EXITS THROUGH ADJOINING ROOMS: (SEC 1016.2) PERMITTED AT ACCESSORY ROOMS TO ONE ANOTHER, NOT GROUP H OCCUPANCY AND PROVIDE DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT (NOT PERMITTED THROUGH KITCHEN, STORAGE, CLOSETS, AND SIMILAR ROOMS)
14. FEC FIRE EXTINGUISHER — F.E. TYPE – 10# ABC, AMEREX MODEL #419 OR EQUAL, INSTALL IN SEMI-RECESSED CABINET. CONFIRM FINAL LOCATION WITH ARCHITECT. LOCATED WITHIN 75'–0" (MAX.) OF EACH OTHER
    - EXIT LIGHTS
    - EXTERIOR / INTERIOR EMERGENCY LIGHTS
    - INTERIOR EMERGENCY LIGHTS
15. FIRE WALLS & TRAVEL DISTANCE TO EXIT
    - TRAVEL DISTANCE TO EXIT
    - 1HR FIRE RATED WALL (UL U419 – US WALL ASSEMBLIES)
    - 2HR FIRE SEPARATION WALL TO DECK (UL U419 – US WALL ASSEMBLIES) WITH 90MIN. DOORS
    - 2HR FIRE WALL TO DECK (UL U419 – US WALL ASSEMBLIES) WITH 90MIN. DOORS @ ERRS ROOM

OCC./EGRESS LEGEND/NOTES:

EXTERIOR, HORIZONTAL & ASSEMBLY EXITS (TAB 1003.2.3)

1. 3'–0" DOOR (33.2" CLR.) @ .2/PERSON = 166 PERSONS
2. PAIR 3'–0" DOOR (66.4" CLR.) @ .2/PERSON = 332 PERSONS

16. MARKING OF FIRE RATED AND SMOKE STOP PARTITIONS: ALL SMOKE STOP PARTITIONS, HORIZONTAL EXIT ENCLOSURES, AND FIRE WALLS MUST BE PERMANENTLY MARKED ABOVE CEILINGS AS FOLLOWS: "FIRE AND SMOKE BARRIER–PROTECT ALL OPENINGS". LETTERS SHALL BE MINIMUM 2 1/2" IN HEIGHT AND PAINTED RED. PROVIDE ON EACH SIDE OF PARTITION.

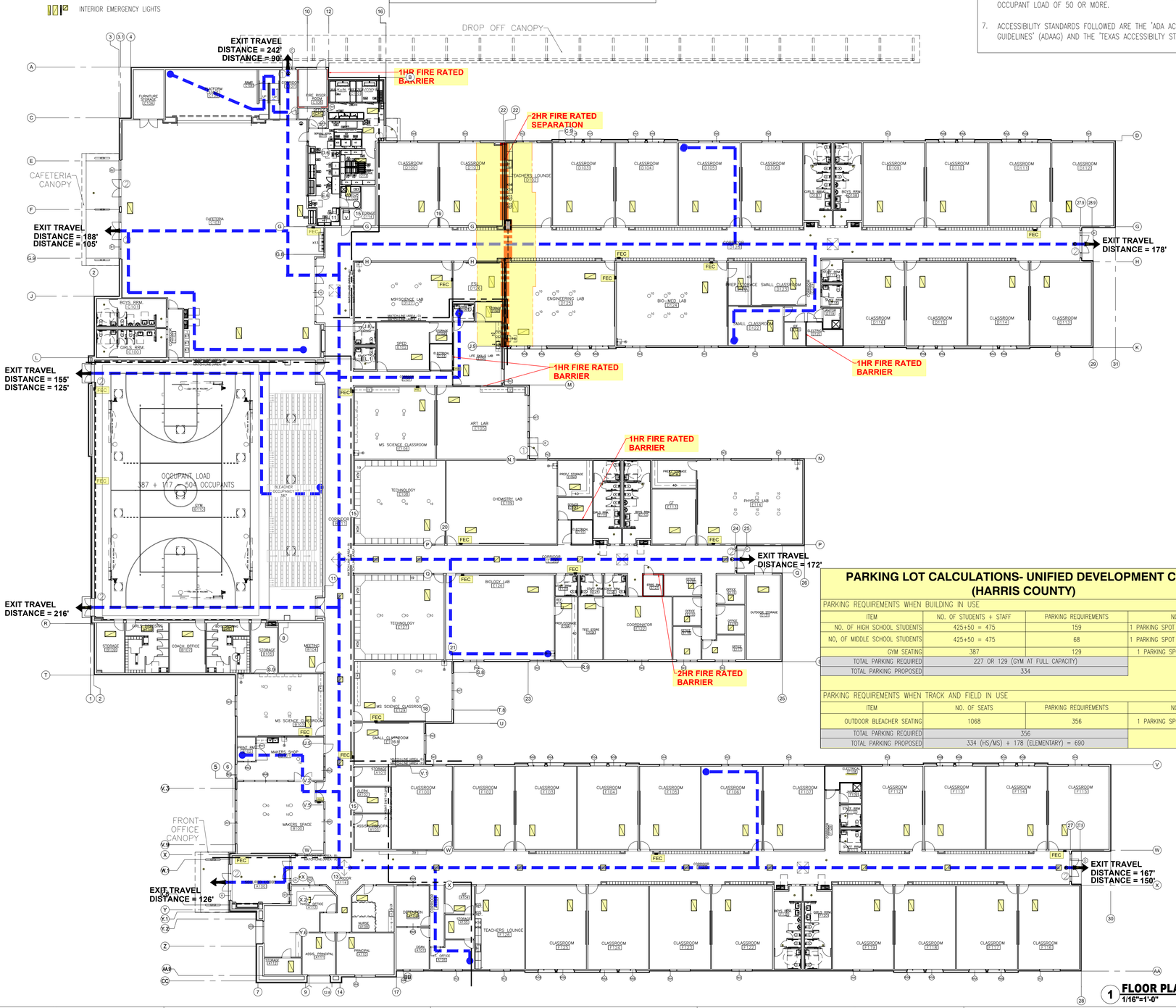
KITCHEN EXHAUST HOOD & LIFE SKILLS LAB EXHAUST HOOD: PROVIDE 1 HR FIREPROOFING FOR HOOD EXHAUST DUCT AS REQUIRED BY IMC SEC. 507.8/506.12 AND IBC TABLE 714.2

BUILDING AREA BASED ON FIRE SEPARATION
AREA #1 (SECTION A, B, C , E AND F) = 63,524 SQFT
AREA #2 (SECTION D) = 16,121 SQFT



GENERAL NOTES

1. SEPARATE REVIEW, APPROVAL, AND PERMITS ARE REQUIRED FOR GRADING, ACCESSORY BUILDINGS AND STRUCTURES, SIGNS, TRASH ENCLOSURES, BLOCK WALLS, RETAINING WALLS NOT SUPPORTING BUILDINGS, AND DEMOLITION WORK. CONTACT CITY FOR PROCEDURAL INFORMATION.
2. OVERALL PLAN SHEET ARE INTENDED FOR CODE COMPLIANCE SUCH AS OVERALL OCCUPANCY, EGRESS INFORMATION, FIRE SEPARATION AND GENERAL INFORMATION ONLY.
3. REFER TO PLAN AREA SHEETS FOR WALLS, DOORS, WINDOWS, AND ROOM LOCATIONS, AS WELL AS, MORE DETAILED PLAN INFORMATION, TYP.
4. A FIRE SYSTEM APPROVED BY THE FIRE MARSHAL SHALL BE PROVIDED. AUDIBLE ALARM DEVICES SHALL BE USED IN ALL AREAS.
5. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN ANY ROOM WITH AN OCCUPANT LOAD OVER 50. THE SIGN IS REQUIRED TO BE POSTED AT OR NEAR THE MAIN EXIT.
6. PROVIDE PANIC HARDWARE FOR GROUP A OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE.
7. ACCESSIBILITY STANDARDS FOLLOWED ARE THE 'ADA ACCESSIBILITY GUIDELINES' (ADAAG) AND THE 'TEXAS ACCESSIBILTY STANDARDS'.



1 BUILDING PLANNING & DESCRIPTION

- [X] NEW CONSTRUCTION
- [ ] LEASE SPACE BUILD-OUT (LSBO)
- [ ] SUBSTANTIAL IMPROVEMENT
- [ ] SHELL BUILDING
- [ ] CHANGE OF OCCUPANCY
- [ ] OTHER: _____

- [ ] SINGLE OCCUPANCY
- MIXED OCCUPANCY
  - [ ] SEPARATED USE
  - [X] NON-SEPARATED USE

(SECTION 508.3 OR 508.4 IBC 2021)

TYPE OF CONSTRUCTION: IIB *(CHAPTER 6 IBC 2021)*

HEIGHT LIMITATION: 75'-0" AREA LIMITATION: 58,000 *(TABLES 504.3, 504.4, 506.2 IBC 2021)*

FRONTAGE INCREASE CALCULATIONS ARE SHOWN ON SHEET: G-003

BUILDING VALUATION

BUILDING NUMBER: 1 OF 1

ADDRESS: 22000 SPRINGWOODS VILLAGE PARKWAY

CITY, ST: SPRING, TX ZIP CODE: 77379 SUITE: _____

CALL CENTERPOINT ENERGY AHEAD OF TIME, AT 713-207-4460, TO OBTAIN AN ADDRESS

HCAD #. OR PROPERTY TAX #: 0431780000258 (13 DIGITS)
(http://www.hcad.org) X-UNSHADED X 500-YR ____ 100-YR ____ OTHER ____

BUILDING LOCATED IN FLOODPLAIN: BFE _____ FFE _____ NG X

GROSS SQUARE FOOTAGE: 79,645 SQFT #OF FLOORS: 1 HEIGHT: 29'-6 3/4"

ESTIMATED COST OF CONSTRUCTION: $ 30 MILLION

T.D.L.R #: TABS2026011714 *(REQUIRED FOR CONSTRUCTION OVER $50,000)*
TEXAS DEPARTMENT OF LICENSING AND REGULATIONS
(https://www.tdlr.texas.gov/ab/ab.htm)
TELEPHONE: (512) 463-6599 TOLL FREE (IN TEXAS): 800-803-9202
FAX: (512) 475-2871 RELAY TEXAS-TDD: 800-735-2989

SHELL BUILDING PERMIT #: TBD CIVIL PROJECT #: 2512150121

PUBLIC UTILITIES: YES [X] NO [ ]

OSSF : YES [ ] NO [X] PROJECT/PERMIT #: _____

LIST BELOW THE PURPOSE/USE OF THE BUILDING OR AREA BEING REVIEWED. INCLUDE DETAILS ON THE PRODUCTS/MATERIALS BEING STORED/FABRICATED AND NOTE HOW THEY ARE BEING PACKAGED.

THE PROJECT SCOPE OF WORK INCLUDES GROUND UP CONSTRUCTION OF A 79,645 SQFT SINGLE STORY MIDDLE AND HIGH SCHOOL INCLUDING PARKING , ATHLETIC TRACK AND FIELD , OUTDOOR BASKETBALL COURT AND LANDSCAPING

2 OCCUPANCY TYPE AND LOAD

CHAPTER 2, 3 & TABLE 1004.5 IBC 2021

BREAK DOWN AREAS AND OCCUPANT LOADS PER FLOOR

OCC. CLASS	AREA SPECIFIC USE	GROSS SF	NET SF	SF PER OCC.	DESIGN OCC.
E1	CLASS INSTRUCTIONAL	39326		20	2999
A2	GYM	7578		50	504
A3	DINING	5568		15	371
B2	ADMINISTRATION	4126		100	41
S2	STORAGE/RESTROOMS/CORRIDORS	23045		300	76
A2	PLATFORM	620		15	41
TOTAL NET					
TOTAL GROSS		79,645			2999

3 MEANS OF EGRESS

CHAPTER 10 IBC 2021

MEANS OF EGRESS	# OF REQUIRED EXITS	# OF EXITS PROVIDED	SHEET #
STAIRWAYS (PER FLOOR)			
EGRESS @ 1ST FL OR LSBO	4	10	G-003

(SECTIONS 1005 & 1006 IBC 2021)

PANIC HARDWARE ON EXIT DOORS? YES [X] NO [ ] *(SECTION 1010.2.9 IBC 2021)*

STAIRWAYS *(SECTION 1011 IBC 2021)*

STAIR DETAILS AND EGRESS WIDTHS SHOWN ON: _____

EXIT SIGNS/EGRESS ILLUMINATION *(SECTIONS 1008 & 1013 IBC 2021)*

REQUIRED AND SHOWN ON: **EL2.11A THROUGH EL2.11F** *(HIGHLIGHT ON PLANS)*

EXTERIOR MEANS OF EGRESS LIGHTING PROVIDED? YES [X] *(SECTION 1008 IBC 2021)*

EXIT TRAVEL DISTANCE *(SECTION 1017 IBC 2021)*

OCCUPANCY TYPE	MAX TRAVEL DISTANCE	PROVIDE TRAVEL DISTANCE	SHEET #
E1 – EDUCATION	250 FT	188 FT	G-003
A2 – GYM	250 FT	125 FT	G-003
A3 – DINING	250 FT	105 FT	G-003
B2 – ADMINISTRATION	250 FT	126 FT	G-003
S2 – STORAGE/ RESTROOM/ CORRIDORS	250 FT	150 FT	G-003
A2 – PLATFORM	250 FT	90 FT	G-003

ELEVATORS

NEW [ ] EXISTING [ ] ELEVATOR HOISTWAY IBC SECTION 3006.2.1? YES [ ] NO [ ]

ELEVATOR KEYBOX LOCATED IN LOBBY? YES [ ] NO [ ]

4 FIRE PROTECTION & LIFE SAFETY SYS.

CHAPTER 9 IFC & IBC 2021

ALL FIRE PROTECTION PLANS SHALL BE SUBMITTED FOR REVIEW AFTER BUILDING PERMIT HAS BEEN ISSUED , (81'(5*5281'),5(/.1(635,1./(5 6<67(0),5($/$50 6<67(0 67$1'3,3( ),5(3803 5220 $1'),5(3527(&7,21 :$7(5 6<67(06

AUTOMATIC FIRE SPRINKLER SYSTEM/ALTERNATIVE AUTOMATIC FIRE EXTINGUISHING SYSTEM **SECTION 903 IFC 2021**

ALL SPRINKLERS SHALL COMPLY WITH MONITORING AND OCCUPANT NOTIFICATION PER 903.4.2.1 SECTION 903.4.1 IFC 2021 AMENDMENTS

[X] PROVIDED AS NOTED ON: G-003 [ ] NOT REQUIRED PER SECTION 903

SYSTEM PROVIDED:
- [X] NFPA 13
- [ ] NFPA 13R
- [ ] NFPA 13D
- [ ] OTHER: _____

SPRINKLER HEAD PROVIDED:
- [ ] STANDARD
- [ ] ELO
- [ ] ESFR
- [X] QUICK RESPONSE

FIRE PUMP PROVIDED:
- [X] YES [ ] NO

FIRE PUMP SEPARATION:
SEE SECTION 913.2.1 IFC 2021

FIRE DEPARTMENT ACCESS TO SPRINKLER CONTROLS:

[X] SPRINKLER RISER ROOM OR POST INDICATOR VALVE SHOWN ON: P3.05, G-003, AS-109A, A-100, A-100A, A103 *(SECTION 901.4.7 HC AMENDMENTS IFC 2021)*

[X] FDC SHOWN ON: P3.05,AS-109 *(FDC SHALL COMPLY WITH SECTION 912 IFC 2021)* AS-109A,A-100,A-100A,A-103

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS *(SECTION 904 IFC 2021)*

[ ] REQUIRED AND SHOWN ON: ANSUL FIRE PROTECTION SYSTEM REFER NOTE #13 ON SHEET QF1 FS GENERAL COORDINATION NOTES

[X] NOT REQUIRED

STANDPIPE SYSTEM & HOSE CONNECTIONS *(SECTION 905 IFC 2021)*
(I.E. IN STAIRWAYS, STAGES, MALLS)

[ ] PROVIDED AS NOTED ON: _____, TYPE OF SYSTEM PROVIDED: _____ *(CLASS I, II OR III)*

[X] NOT REQUIRED

PORTABLE FIRE EXTINGUISHERS *(SECTION 906 IFC 2021)*

[X] PROVIDED AS NOTED ON: G-003 , NUMBER PROVIDED: 22 *(HIGHLIGHT ON PLANS)*

FIRE ALARM & DETECTION SYSTEMS *(SECTION 907 HC AMENDMENTS IFC 2021)*

- [X] FIRE ALARM SYSTEM (DEFERRED SUBMITTAL)
- [ ] NOT REQUIRED
- [X] EMERGENCY VOICE EVACUATION
- [ ] OTHER: _____
- [ ] ELEVATOR RECALL
- [ ] GAS DETECTION SYSTEM SECTION 916

HVAC & AIR DISTRIBUTION SYSTEM CONTROLS *(SECTION 907.3.1 IFC 2021)*

- [X] SMOKE DETECTORS PROVIDED TO SHUT DOWN UNITS OVER 2,000 CFM PROVIDED ON: M5.02
- [ ] NO HVAC UNITS OVER 2,000 CFM
- [X] FIRE/SMOKE DAMPERS IN THE BUILDING SHOWN ON: FIRE DAMPERS M2.11D, SMOKE DAMPERS M5.02
- [ ] NO FIRE/SMOKE DAMPERS IN THE BUILDING

SMOKE CONTROL SYSTEM *(SECTION 909 IFC 2021)*

- [ ] PROVIDED AS NOTED ON: _____
- [X] NOT REQUIRED

SMOKE & HEAT VENTILATION *(SECTION 910 IFC 2021)*

- [ ] CALCULATIONS PROVIDED AS NOTED ON: _____
- [X] NOT REQUIRED

ENHANCED RESPONDER COMMUNICATIONS COVERAGE SYSTEM (ERCCS)

[X] PROVIDED AS NOTED ON: SHEET G-003 *(SECTION 510 HC AMENDMENTS)*

[ ] NOT REQUIRED ROOM E121& SPEC SECTION 275129(DEFERRED SUBMITTAL)

5 FIRE-RESISTANCE RATE CONSTRUCTION

CHAPTERS 6, 7 AND 10 IBC 2021

*Provide section details on the plans showing compliance for any proposed fire rated construction (walls, partitions, floors, roof, etc.).
*Please reference and provide standard for the rated design.

FIRE-RESISTANCE RATING REQUIREMENTS *TABLE 601 & PROPOSED OR REQUIRED CONSTRUCTION PER IBC 2021*

BUILDING ELEMENTS	HOURS REQUIRED	HOURS PROVIDED	UL OR IBC STANDARD USED & DESIGN DETAIL SHOWN ON
STRUCTURAL FRAME	0	0	N/A
EXTERIOR BEARING WALLS	0	0	
EXTERIOR NON-BEARING WALLS	0	0	
INTERIOR BEARING WALLS	0	0	
INTERIOR NON-BEARING WALLS	0	0	
FLOOR CONSTRUCTION	0	0	
ROOF CONSTRUCTION	0	0	
STAIRWELLS *(SECTION 1023)*	N/A		
ELEVATOR SHAFTS *(SECTION 713)*	N/A		
CORRIDORS *(SECTION 1020)*	0		
FIRE RATED DOORS *(TABLE 716.1(2))*	1		
DEMISING/PARTITION WALL *(SECTION 708)*	2	2	MECHANICAL, BOILER ROOM – N/A ON THIS PROJECT
FIRE BARRIER *(SECTION 707)*	0	0	
FIRE WALL *(SECTION 706)*	2	2	UL419
DRAFTSTOPS: [ ] YES, SHOWN ON: _____ [ ] NO (SPRINKLED ATTIC) [X] N/A *(SECTION 718.4)*			

FIRE SEPARATION DISTANCE (FEET) *(SECTION 602 IBC 2021)*	+30 NORTH	+30 SOUTH	+30 EAST	+30 WEST
ROOF COVERING CLASSIFICATION PROVIDED: *(TABLE 1505.1 IBC 2021)*	A [X]	B [ ]	C [ ]	

6 WATER SUPPLY (FOR FIREFIGHTING)

CHAPTER 5, APPENDIX B & C IFC 2018

79,645 GROSS SIZE OF BUILDING IN SQUARE FEET *(INCLUDE ALL OVERHANGS UNDER ROOF)*

PUBLIC WATER SUPPLY WITH FIRE HYDRANTS
(FOR PROPOSED AND EXISTING FIRE HYDRANTS ONLY)

NAME OF THE MUNICIPAL UTILITY DISTRICT: NO. 458

NUMBER OF HYDRANTS WITHIN 400 FT (NON-SPRINKLED) OR 600 FT (SPRINKLED) OF BUILDING: 4 , SHOWN ON: C0.5, C2.0, AS-109, AS-109A

REQUIRED GPM: 1,312 DURATION: 4 HOUR *(TABLE B105.1(2) IFC 2021)*

75% REDUCTION? YES [X] NO [ ] *(MUST MAINTAIN MINIMUM PER TABLE B105.2 IFC 2021)*

OR

WATER SOURCE FOR RURAL AREAS WITHOUT FIRE HYDRANTS

- [ ] ***DRY HYDRANT
- [ ] ABOVEGROUND STORAGE
- [ ] UNDERGROUND STORAGE
- [ ] OTHER: _____
- [ ] PRIVATE HYDRANT

DESIGN SPECIFICATIONS AND LOCATIONS SHOULD MEET MINIMUM REQUIRED WATER SUPPLY IN ACCORDANCE WITH SECTION B103.3 IN THE HARRIS COUNTY FIRE CODE. THE FIRE CODE OFFICIAL IS AUTHORIZED TO UTILIZE NFPA 1142 OR THE INTERNATIONAL WILDLAND-URBAN INTERFACE CODE.

7 FIRE LANE ACCESS

CHAPTER 5, APPENDIX D IFC 2021

FIRE LANE LAYOUT PLAN, WHICH SHALL INCLUDE THE SITE PLAN, THE FIRE LANE & FIRE HYDRANTS, IS SHOWN ON: AS-109B *(HIGHLIGHT THE FIRE HYDRANT LOCATIONS ON THE PLANS)* AERIAL ACCESS LAYOUT, FOR BUILDINGS OVER 30 FT, IS SHOWN ON: N/A .

FIRE LANES WILL BE APPROVED CONCEPTUALLY DURING THE CIVIL REVIEW PROCESS. HOWEVER, THE FIRE CODE PLAN REVIEWER MAY CHANGE THE FIRE LANE LAYOUT BASED ON THE BUILDING SPECIFICATIONS.

[X] GATES AND BARRICADES ACROSS THE FIRE ACCESS ROAD
PROPERTIES WITH FENCE AND GATES SHALL PROVIDE A 911 KEY BOX AT ENTRY GATE.
REFER SHEET AS-103 SITE DETAILS , AS-107 OVERALL ARCHITECTURAL SITE FENCING PLAN

8 INTERIOR FINISH

CHAPTER 8, TABLE 803.13 IBC 2021

OCCUPANCY GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES	SHEET #
E1 – EDUCATION A2 – GYM A3 – DINING B2 – ADMINISTRATION S2 – STORAGE A2 – PLATFORM	REFER SHEET A-115			

9 STORAGE: STANDARD

N/A

YES [ ] NO [X] PRODUCTS BEING STORED: N/A

YES [ ] NO [X] STORAGE METHOD *(I.E. RACKS, PALLETS ON FLOOR, ETC.)*: N/A
STORAGE LAYOUT SHOWN ON: _____

YES [ ] NO [X] MAXIMUM HEIGHT STORAGE: N/A

10 STORAGE: HIGH PILED

CHAPTER 32 IFC 2021 - SEE ALSO SECTION 3201.3 & HC AMENDMENTS IFC 2021
***DEFERRED SUBMITTAL THAT MUST BE SUBMITTED WITHIN 180 DAYS OF ORIGINAL PERMITTING.**

N/A

YES [ ] NO [X] PRODUCTS BEING STORED: N/A

YES [ ] NO [X] STORAGE PACKAGING *(I.E. PALLETS, RACKS, SOLID PILED, DRUMS, CARDBOARD BOXES, WRAPPED IN PLASTIC, ETC.)*: N/A

YES [ ] NO [X] MAXIMUM HEIGHT OF COMMODITY: N/A

YES [ ] NO [X] ***THIS BUILDING IS DESIGNED FOR THE INTENT OF HIGH PILED STORAGE. IF YES, THEN PROVIDE HIGH PILED STORAGE FORM FOUND ON HC WEBSITE

YES [ ] NO [X] FIRE DEPARTMENT ACCESS DOORS

YES [ ] NO [X] HIGH PILED STORAGE RACK LAYOUT/ELEVATIONS, CODE ANALYSIS, ETC. SHOWN ON: N/A

11 HAZARDOUS MATERIALS

CHAPTER 50 IFC 2021 - SEE ALSO SECTION 5001.7 HC AMENDMENTS IFC 2021
HMIS FORM FOUND ON HC WEBSITE.

YES [ ] NO [X] DOES THE BUILDING HAVE HAZARDOUS MATERIAL USE OR STORAGE? IF YES, THEN PROVIDE ALL HMIS SUMMARY AND MSDS REPORTS.

YES [ ] NO [ ] IF YES, DO THE QUANTITIES EXCEED THE MAXIMUM ALLOWABLE PER IFC 2021?

IF YES, YOU WILL BE REQUIRED TO PROVIDE THE FOLLOWING:
CODE ANALYSIS BY FIRE PROTECTION ENGINEER TO SHOW COMPLIANCE WITH IFC 2021.
CODES AND REFERENCED STANDARDS SHOWN ON SHEET(S) _____

12 SPECIAL CONDITIONS

- YES [ ] NO [X] ATRIUM(S) SECTION 404 IBC 2021
- YES [ ] NO [X] HIGH RISE BLDG SECTION 403 IBC 2021 & 914.3 IFC 2021
- YES [ ] NO [X] ANY FUEL STORAGE TANKS CHAPTERS 23, 50, 57 IFC 2021
- YES [ ] NO [X] CRITICAL FACILITIES (HARRIS COUNTY SECTION 1203.2.20 HC AMENDMENTS IFC 2021)
- YES [ ] NO [X] COMPRESSED GASES CHAPTERS 53,58 IFC 2021
- YES [ ] NO [X] CRYOGENIC FLUIDS CHAPTER 55 IFC 2021
- YES [ ] NO [X] FLAMMABLE & COMBUSTIBLE LIQUIDS CHAPTERS 50 & 57 IFC 2021
- YES [ ] NO [X] PAINT SPRAY BOOTHS, COATINGS, DIPPING OR INDUSTRIAL OVENS USED CHAPTERS 24 & 30 IFC 2021
- YES [X] NO [ ] HEALTH DEPARTMENT APPROVAL? REQUIRED FOR ALL ESTABLISHMENTS THAT SERVE/PREPARE FOOD AND BEVERAGES FOR THE PUBLIC OR HAVE REFRIGERATED FOOD STORAGE. HEALTH REVIEW APPLICATION # A0008064
- YES [ ] NO [X] LP GAS CHAPTER 61 IFC 2021
- YES [ ] NO [X] PROPOSING PHASED PERMITS PHASING PLAN SHOWN ON: _____
- YES [ ] NO [X] OTHER: _____

COMMENTS & NOTES

A COPY OF THESE APPROVED CONSTRUCTION PLANS MUST BE KEPT AT PROJECT SITE FOR THE FINAL INSPECTION OF THE BUILDING

PROJECT NUMBER: 2602270150

THE PROJECT KNOWN AS
(MUST BE THE NAME OF BUSINESS/DBA IF BUILDING IS FOR A SPECIFIC COMPANY)

HARMONY PUBLIC SCHOOLS – HARMONY SCIENCE ACADEMY, MIDDLE HIGH SCHOOL, CITY PLACE

WAS ACCEPTED BY HARRIS COUNTY FOR THE PURPOSES LISTED BELOW:

REVIEWER'S SIGNATURE BLOCK

PERMIT OFFICE

THE PROJECT WAS REVIEWED; HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER / ARCHITECT LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE PROFESSIONAL'S RESPONSIBILITY AND ACCOUNTABILITY. THIS ACCEPTANCE DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO DEVELOPMENT.

HCED REVIEW:

CERTIFICATION

I, RAYMOND GIGNAC, A LICENSED PROFESSIONAL ~~ENGINEER/ARCHITECT~~ IN THE STATE OF TEXAS DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I ~~AM/AM NOT~~ A DESIGNER OF RECORD FOR THIS PROJECT. THE PROJECT CONSISTS OF DRAWING SHEETS G-000 THROUGH TS-500 .

ENGINEERING FIRM _____ FIRM# TBAE-BR-1221

SEAL EXPIRATION DATE 11/30/2026

SIGNED ON 6/29/2026
SIGNATURE DATE

HARRIS COUNTY (IFC & IBC 2021)

FIRE CODE DESIGN AND COMPLIANCE REVIEW SHEET VERSION 9.0 (MAY 2025)

REVISIONS (DO NOT USE THIS BLOCK UNTIL AFTER PERMIT IS ISSUED)

DATE	SHEET NO.(S)	DESCRIPTION	REVIEWER

FIRE CODE REVIEW

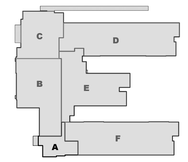
SHEET NUMBER

1 OF 1

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242
LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

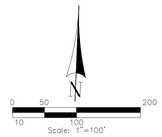
No.	Description	Date

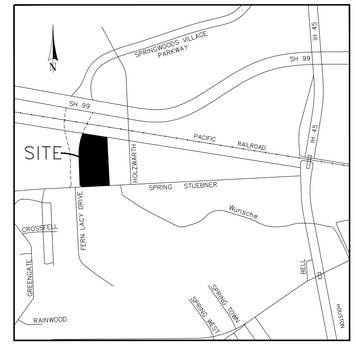
Sheet Title:
HARRIS COUNTY CODE COMPLIANCE

G-004

F. LIMSKY SURVEY
A-512







VICINITY MAP
N.T.S.

ABBREVIATIONS
O.P.R.R.P.H.C. = OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS
D.R.H.C. = DEED RECORDS OF HARRIS COUNTY, TEXAS
F.C. NO. = FILM CODE NUMBER
TOB = TOP OF BANK
I.R. = IRON ROD

BENCHMARK INFORMATION

REFERENCE BENCHMARK
FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL. NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER. WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS. NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.
ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARKS

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 131.31 (FEET)

FLOODPLAIN INFORMATION

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

UNSHADED ZONE X – AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

NOTES:

1. THIS IS NOT A BOUNDARY SURVEY. SUBJECT TRACT GEOMETRY IS BASED ON AN ALTA/NSPS LAND TITLE SURVEY PREPARED BY C.L. DAVIS & CO. LAND SURVEYING DATED AUGUST 19, 2019 AND TITLED "28.8908 ACRES OUT OF F. LIMSKY SURVEY, ABSTRACT 512 HARRIS COUNTY, TEXAS AND LOCATION SHOULD BE CONSIDERED APPROXIMATE.

2. ALL FIELD TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AN "ON-THE-GROUND" SURVEY PERFORMED IN THE MONTH OF APRIL, 2022.

PROJECT
A TOPOGRAPHIC SURVEY OF A 28.8908 ACRE TRACT SITUATED IN THE F. LIMSKY SURVEY, A-512, IN HARRIS COUNTY, TEXAS.

OWNER
SPRINGWOODS REALTY, INC.

LOCATION
SPRING STUEBNER ROAD AT FUTURE SPRINGWOODS VILLAGE PARKWAY

CobbFendley
TBPE Firm Registration No. 274
TBPELS Firm Registration No. 100467
13430 Northwest Freeway, Suite 1100 Houston, Texas 77040
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

DRAWN BY: RC	DATE: 5-06-2022	SHEET 1 OF 1	REVISED
DESIGNED BY: RC	SCALE: 1"=100'	F.B. NO. 3304	
	CHK'D BY: CW	PROJECT NO. 2107-031-01-01	

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3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
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HOUSTON, TEXAS 77041
PHONE: 713-462-3242
LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
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Harlingen, TX 78550
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MECHANICAL, ELECTRICAL, AND PLUMBING:
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San Antonio, Texas 78216
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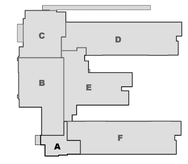
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

LICENSED ARCHITECT
RAYMOND D. GIGNAC
6295
STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
TOPO SURVEY

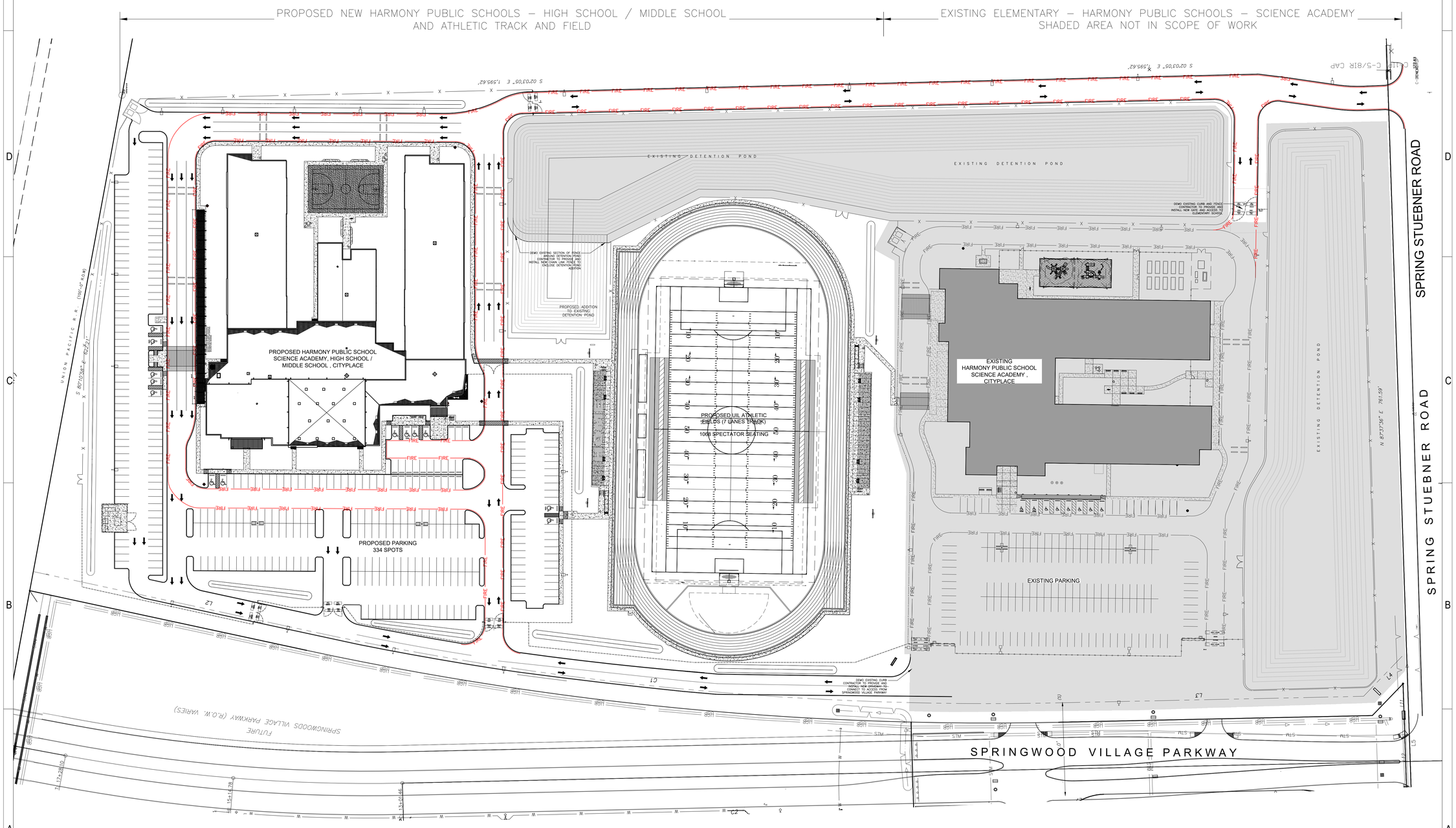
G-005

GENERAL SITE NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/MEP/STRUCTURAL DRAWINGS.
2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE.
3. FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL FENCE THE ENTIRE AREA OF BUILDING CONSTRUCTION AND CONTRACTOR STAGING/PARKING WITH TEMPORARY CHAINLINK CONSTRUCTION FENCING.
5. DO NOT USE PERMANENT PERIMETER FENCING FOR CONSTRUCTION FENCING.
6. THE CONTRACTOR SHALL KEEP VEHICULAR AND PEDESTRIAN ACCESS WAYS CLEAR AND CLEAN AT ALL TIMES.
7. THE AREA OF CONSTRUCTION SHALL BE FENCED OR BARRICADED WHILE CONSTRUCTION IS TAKING PLACE. FENCES AND BARRICADES SHALL BE MAINTAINED STRAIGHT AND ERECT DURING THE CONSTRUCTION.
8. THE CONTRACTOR SHALL REPAIR, RESTORE OR REPLACE ANY EXISTING INSTALLATIONS DAMAGED BY WORK OF THIS CONTRACT INCLUDING ASPHALT ROADS, SODDED AREAS AND OTHER LANDSCAPING.
9. REMOVE ALL BARRICADES AND OTHER TEMPORARY CONSTRUCTION AT THE COMPLETION OF THE WORK.
10. THE LOCATIONS OF UTILITY LINES SHOWN ON THE SITE PLAN ARE APPROXIMATE. VERIFY THE LOCATION OF ANY UTILITY LINES PRIOR TO COMMENCING DIGGING ON THE SITE.
11. CONTRACTOR TO FIELD VERIFY ALL CITY UTILITIES (LIGHT POLES, HYDRANTS, ETC.) ALONG CITY RIGHT OF WAYS TO ENSURE THAT PROPOSED SIDEWALKS TO NOT INTERFERE.
12. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR SITE WORK ASSOCIATED WITH THOSE DISCIPLINES.
13. ALL STRIPING AND TRAFFIC SIGNS SHALL MEET TXDOT STANDARDS (TYP.)
14. ALL FLATWORK SHALL MEET TEXAS ACCESSIBILITY STANDARDS.
15. SEE SPECIFICATION SECTIONS "GENERAL REQUIREMENTS" FOR OTHER REQUIREMENTS.
16. CONTRACTOR TO REFER TO CIVIL DRAWINGS FOR "ADA" RAMP LOCATIONS. REQUIREMENTS.

PROPOSED NEW HARMONY PUBLIC SCHOOLS – HIGH SCHOOL / MIDDLE SCHOOL AND ATHLETIC TRACK AND FIELD

EXISTING ELEMENTARY – HARMONY PUBLIC SCHOOLS – SCIENCE ACADEMY SHADED AREA NOT IN SCOPE OF WORK



1 OVERALL ARCHITECTURAL SITE PLAN
1"=50'-0"

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Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

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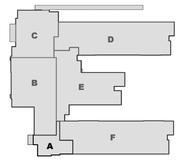

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
OVERALL ARCHITECTURAL SITE PLAN PHASE 1 & PHASE 2

AS-100

GENERAL SITE NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/MEP/STRUCTURAL DRAWINGS.
2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE.
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12. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR SITE WORK ASSOCIATED WITH THOSE DISCIPLINES.
13. ALL STRIPING AND TRAFFIC SIGNS SHALL MEET TXDOT STANDARDS (TYP.)
14. ALL FLATWORK SHALL MEET TEXAS ACCESSIBILITY STANDARDS.
15. SEE SPECIFICATION SECTIONS "GENERAL REQUIREMENTS" FOR OTHER REQUIREMENTS.
16. CONTRACTOR TO REFER TO CIVIL DRAWINGS FOR "ADA" RAMP LOCATIONS. REQUIREMENTS.

SITE KEYNOTES 00

1. EXISTING DETENTION POND / DRAINAGE PER PHASE 1
2. PROVIDE AND INSTALL CONCRETE SIDEWALK – TYPICAL, RE: CIVIL DRAWING
3. PROVIDE AND INSTALL PAVEMENT – TYPICAL, RE: CIVIL DRAWINGS
4. PROVIDE AND INSTALL CONCRETE CURB, RE: CIVIL DRAWINGS
5. INSTALL PAVEMENT STRIPING – TYPICAL, RE: CIVIL DRAWINGS
6. PROVIDE AND INSTALL CONCRETE FLATWORK – TYPICAL RE: CIVIL DRAWINGS
7. DESIGNATED "FIRE LANE" PROVIDE AND INSTALL STRIPING – NO MORE THAN 50'–0", RE: AS–104
8. PROVIDE AND INSTALL "FIRE LANE" SIGNS TO BE INSTALLED NO LESS THAN 75'–0" APART WHERE FIRE LANE STRIPING IS NOT PRACTICAL.
9. PROVIDE AND INSTALL CONCRETE WHEEL STOP – TYPICAL – RE: CIVIL FOR DETAILS
10. PROVIDE AND INSTALL FLUSH CURBS, RE: CIVIL DRAWINGS
11. PROVIDE AND INSTALL SURFACE MOUNTED STOP BOLLARDS – REFER SPEC. SECTION 32 39 13–2
12. PROVIDE AND INSTALL STEEL PIPE BOLLARD, RE: 8/AS–104
13. PROVIDE AND INSTALL TRAFFIC SPEED BUMPS – TYPICAL (10 FT LONG, RUBBER W/ END CAPS – ASPHALT INSTALLATION)
14. PROVIDE AND INSTALL SPEED TABLE (20 FT X 36 FT)
15. PROVIDE AND INSTALL HANDICAP SIGN – TYPICAL. SEE DETAIL ON SHEET AS–101 AND RE: CIVIL FOR ADDITIONAL REQUIREMENTS
16. PROVIDE AND INSTALL HANDICAP RAMP – TYPICAL, RE: CIVIL DRAWINGS
17. PROVIDE AND INSTALL FLAG POLE (2 EA. – TYPE A – 25 FEET FOR USA FLAG AND 2 EA. – TYPE B – 20 FEET FOR OTHER FLAGS. RE: DETAIL 12/AS–104 AND SPECS.
18. PROVIDE AND INSTALL OUTDOOR BASKETBALL GOALS, FOUNDATION PER MANUFACTURER, RE: SPECS
19. PROVIDE AND INSTALL OUTDOOR PEDESTAL WATER FOUNTAIN RE: PLUMBING SPECS.
20. PROVIDE AND INSTALL OUTDOOR BASKETBALL COURT – POST–TENSIONED CONCRETE SLAB, RE: 1/AS–103
21. BASKETBALL COURT STRIPING, COORDINATE FINAL COLOR SELECTIONS WITH ARCHITECT. (4 COLORS)
22. PROVIDE AND INSTALL TRASH RECEPTACLE SEE SHEET AS–103 FOR DETAILS
23. PROVIDE AND INSTALL ADA TABLE SEE SHEET AS–103 FOR DETAILS
24. PROVIDE AND INSTALL BENCHES SEE SHEET AS–103 FOR DETAILS
25. PROVIDE AND INSTALL BIKE RACKS SEE SHEET AS–103 FOR DETAILS
26. PROVIDE AND INSTALL NCAA STANDARD NATURAL GRASS FOOTBALL (WITH GOALS, SCOREBOARD, STRIPING & PLAY CLOCKS, SCORE–TABLE) REFER TO SHEET AS–10X FOR DETAILS
27. PROVIDE AND INSTALL SCOREBOARD, RE: SPECS
28. PROVIDE AND INSTALL FIELD TIME CLOCKS – 2 NOS. , RE: SPECS
29. PROVIDE AND INSTALL TRACK AROUND FIELD TO MEET NFHS STANDARD. REFER DRAWINGS AS–10X FOR DETAILS
30. PROVIDE AND INSTALL "H" STYLE FOOTBALL SOCCER GOAL SYSTEM INCORPORATING FULL METAL FRAME FOR SOCCER GOAL DEPTH AND HEIGHT.
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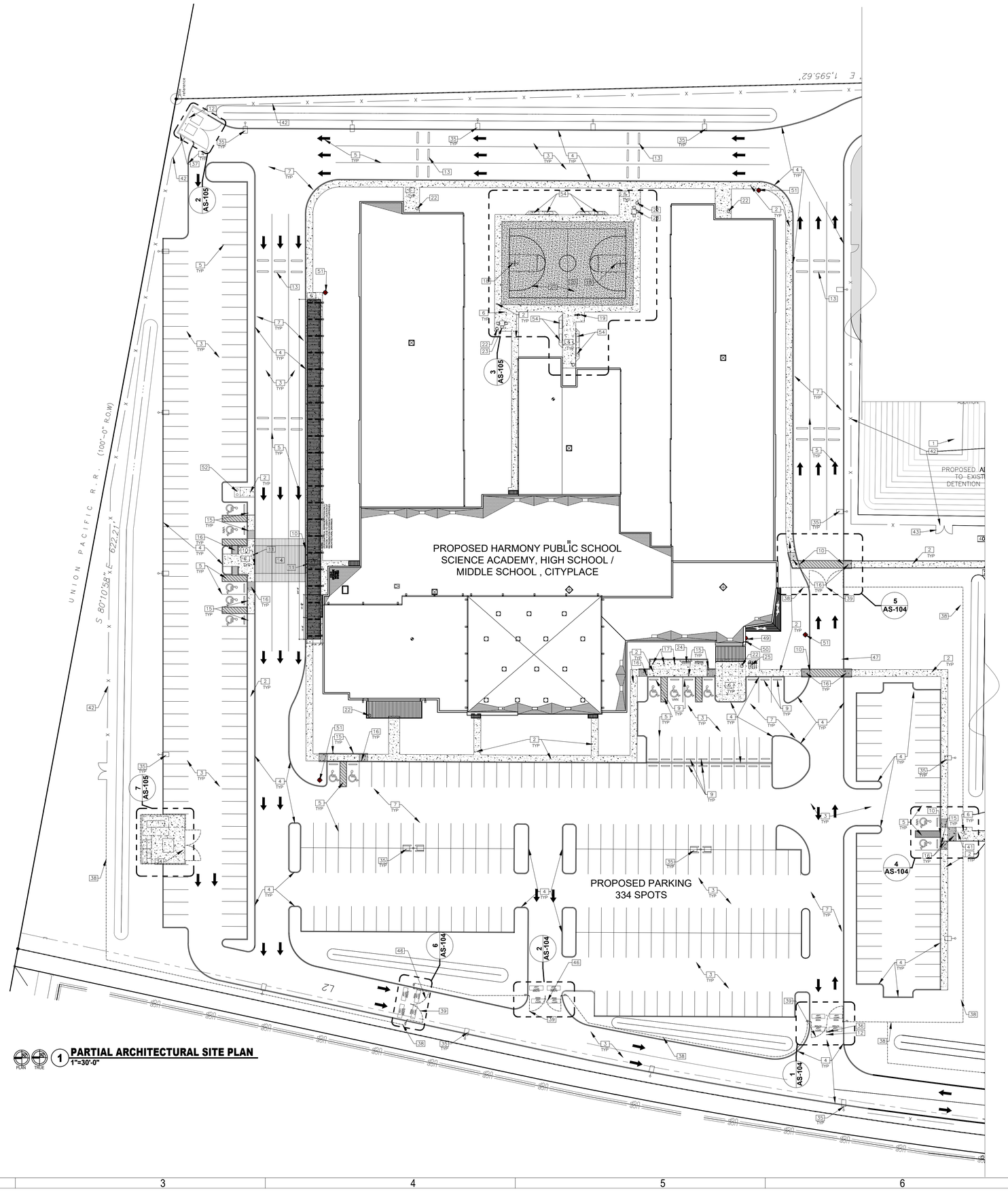
32. PROVIDE & INSTALL OUTDOOR ALUMINUM BLEACHERS, ANCHORED TO CONCRETE PAD – CONCRETE PAD DESIGN PER BLEACHER MANUFACTURER, COORDINATE WITH NATURAL GRASS FIELD
33. PROVIDE AND INSTALL SPORTS LIGHTING, RE: MEP DRAWINGS
34. PROVIDE AND INSTALL PAD MOUNTED TRANSFORMER & GENERATOR (FENCED IN ELECTRIC YARD) RE: MEP & STRUCTURAL PLANS. REFER SHEET AS–105 FOR DETAILS
35. PROVIDE AND INSTALL SITE LIGHTING – TYPICAL, RE: MEP DRAWINGS
36. PROVIDE AND INSTALL PEDESTAL FOR ACCESS EQUIPMENT / KNOX BOX AT ENTRY GATES. COORDINATE WITH MEP/ LOW VOLTAGE. PROVIDE AND INSTALL RELEASE BUTTON CONTROL IN FRONT OFFICE AREA FOR ALL ENTRY GATES.
37. PROVIDE AND INSTALL DUMPSTER ENCLOSURE, RE: 1/AS–104
38. PROVIDE AND INSTALL 6'–0" DECORATIVE STEEL FENCE (BLACK) – REFERENCE SHEET AS–107 FENCING PLAN
39. PROVIDE AND INSTALL VEHICULAR DECORATIVE STEEL (BLACK) AUTOMATIC SWING GATE, PROVIDE SOS DEVICE, OVERRIDE SWITCH & KNOX BOX KEYPAD (FINAL LOCATION TBD AND COORDINATED WITH FIRE MARSHAL). RE: SPECS
40. PROVIDE AND INSTALL CONTROLS FOR SPORTS LIGHTING, REFER TO MEP DRAWINGS.
41. PROVIDE AND INSTALL DECORATIVE STEEL (BLACK) SWING PEDESTRIAN GATES. REFER SHEET AS–103 & AS–106 FOR DETAILS
42. PROVIDE AND INSTALL 6'–0" CHAIN LINK FENCE WITH BLUE VINYL SLATS– REFERENCE SHEET AS–106 FENCING PLAN
43. PROVIDE AND INSTALL PEDESTRIAN SWING GATES AT CHAIN LINK FENCE. REFER SHEET AS–103 FOR DETAILS.
44. PROVIDE AND INSTALL 4'–0" HIGH BLACK VINYL FENCE AROUND TRACK AND FIELD. REFER SHEET AS–106 FENCING PLAN FOR DETAILS
45. PROVIDE AND INSTALL ACCESS 4'–0" GATES AT BLACK VINYL FENCE, REFER SHEET AS–106 , FENCING PLAN FOR DETAILS
46. NOT APPLICABLE
47. PROVIDE AND INSTALL PRE – ENGINEERED DROP OF CANOPY
48. PROVIDE AND INSTALL MARQUEE PER SHEET A–103
49. PROVIDE AND INSTALL REMOTE "FDC" LOCATIONS
50. PROVIDE AND INSTALL FDC SIGNAGE 4" TO 8" TALL, COORDINATE WITH LOCAL FIRE MARSHAL
51. PROVIDE AND INSTALL NEW FIRE HYDRANT, RE: CIVIL SPECS AND DRAWINGS FOR DETAILS
52. PROVIDE AND INSTALL GREASE TRAP REFER TO MEP DRAWINGS FOR DETAILS
53. PROVIDE AND INSTALL CONCRETE BENCHES (BELSON OUTDOORS – OUR TOWN SERIES CONCRETE BACKLESS BENCH MODEL NO. WS900 – 72"L X 24"W X 18"H)



PLAN TREE 1 **PARTIAL ARCHITECTURAL SITE PLAN**
1"=30'-0"

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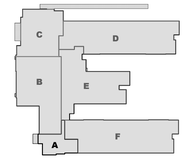


KEYPLAN

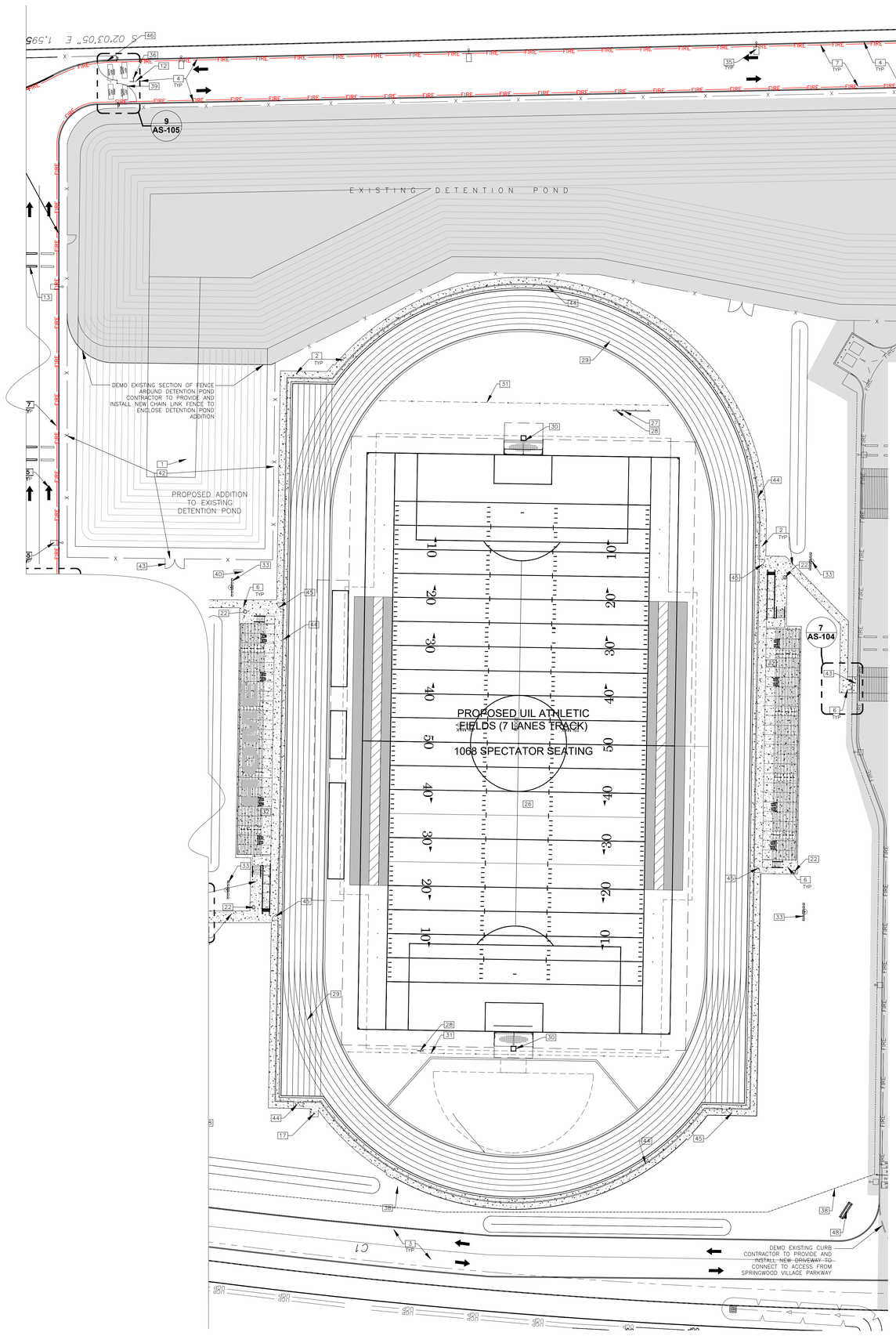
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL ARCHITECTURAL SITE PLAN BUILDING AND PARKING AREA

AS-101



SITE KEYNOTES 00

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33. PROVIDE AND INSTALL SPORTS LIGHTING, RE: MEP DRAWINGS
34. PROVIDE AND INSTALL PAD MOUNTED TRANSFORMER & GENERATOR (FENCED IN ELECTRIC YARD) RE: MEP & STRUCTURAL PLANS. REFER SHEET AS–105 FOR DETAILS
35. PROVIDE AND INSTALL SITE LIGHTING – TYPICAL, RE: MEP DRAWINGS
36. PROVIDE AND INSTALL PEDESTAL FOR ACCESS EQUIPMENT / KNOX BOX AT ENTRY GATES. COORDINATE WITH MEP/ LOW VOLTAGE. PROVIDE AND INSTALL RELEASE BUTTON CONTROL IN FRONT OFFICE AREA FOR ALL ENTRY GATES.
37. PROVIDE AND INSTALL DUMPSTER ENCLOSURE, RE: 1/AS–104
38. PROVIDE AND INSTALL 6'–0" DECORATIVE STEEL FENCE (BLACK) – REFERENCE SHEET AS–107 FENCING PLAN
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49. PROVIDE AND INSTALL REMOTE 'FDC' LOCATIONS
50. PROVIDE AND INSTALL FDC SIGNAGE 4" TO 8" TALL, COORDINATE WITH LOCAL FIRE MARSHAL
51. PROVIDE AND INSTALL NEW FIRE HYDRANT, RE: CIVIL SPECS AND DRAWINGS FOR DETAILS
52. PROVIDE AND INSTALL GREASE TRAP REFER TO MEP DRAWINGS FOR DETAILS
53. PROVIDE AND INSTALL CONCRETE BENCHES (BELSON OUTDOORS – OUR TOWN SERIES CONCRETE BACKLESS BENCH MODEL NO. WS900 – 72"L X 24"W X 18"H)

GENERAL SITE NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/MEP/STRUCTURAL DRAWINGS.
2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE.
3. FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL FENCE THE ENTIRE AREA OF BUILDING CONSTRUCTION AND CONTRACTOR STAGING/PARKING WITH TEMPORARY CHAINLINK CONSTRUCTION FENCING.
5. DO NOT USE PERMANENT PERIMETER FENCING FOR CONSTRUCTION FENCING.
6. THE CONTRACTOR SHALL KEEP VEHICULAR AND PEDESTRIAN ACCESS WAYS CLEAR AND CLEAN AT ALL TIMES.
7. THE AREA OF CONSTRUCTION SHALL BE FENCED OR BARRICADED WHILE CONSTRUCTION IS TAKING PLACE. FENCES AND BARRICADES SHALL BE MAINTAINED STRAIGHT AND ERECT DURING THE CONSTRUCTION.
8. THE CONTRACTOR SHALL REPAIR, RESTORE OR REPLACE ANY EXISTING INSTALLATIONS DAMAGED BY WORK OF THIS CONTRACT INCLUDING ASPHALT ROADS, SODDED AREAS AND OTHER LANDSCAPING.
9. REMOVE ALL BARRICADES AND OTHER TEMPORARY CONSTRUCTION AT THE COMPLETION OF THE WORK.
10. THE LOCATIONS OF UTILITY LINES SHOWN ON THE SITE PLAN ARE APPROXIMATE. VERIFY THE LOCATION OF ANY UTILITY LINES PRIOR TO COMMENCING DIGGING ON THE SITE.
11. CONTRACTOR TO FIELD VERIFY ALL CITY UTILITIES (LIGHT POLES, HYDRANTS, ETC.) ALONG CITY RIGHT OF WAYS TO ENSURE THAT PROPOSED SIDEWALKS TO NOT INTERFERE.
12. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY DRAWINGS FOR SITE WORK ASSOCIATED WITH THOSE DISCIPLINES.
13. ALL STRIPING AND TRAFFIC SIGNS SHALL MEET TXDOT STANDARDS (TYP.)
14. ALL FLATWORK SHALL MEET TEXAS ACCESSIBILITY STANDARDS.
15. SEE SPECIFICATION SECTIONS "GENERAL REQUIREMENTS" FOR OTHER REQUIREMENTS.
16. CONTRACTOR TO REFER TO CIVIL DRAWINGS FOR "ADA" RAMP LOCATIONS. REQUIREMENTS.

1 PARTIAL ARCHITECTURAL SITE PLAN
1"=30'-0"

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Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
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FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
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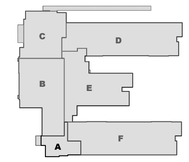
REGISTERED ARCHITECT RAYMOND G. GIGNAC 23255 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

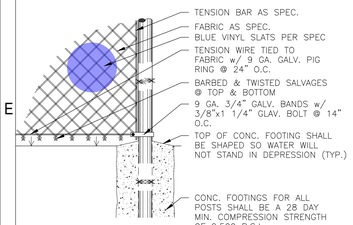
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

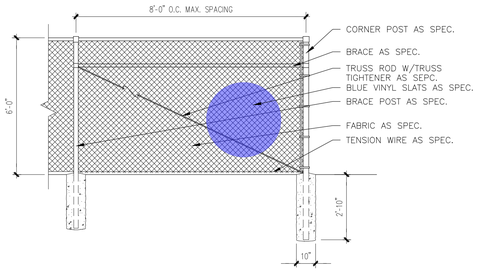
No.	Description	Date

Sheet Title:
PARTIAL ARCHITECTURAL SITE PLAN TRACK & FIELD AREA

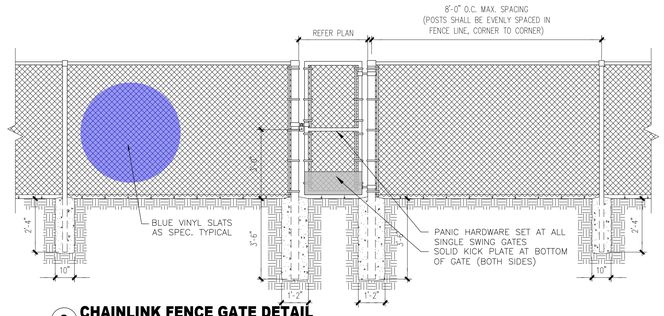
AS-102



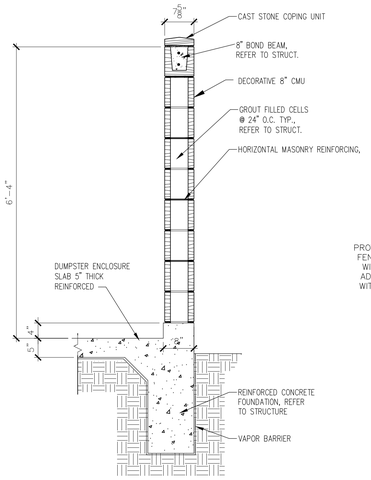
7 CHAINLINK FENCE DETAIL
3/8"=1'-0"



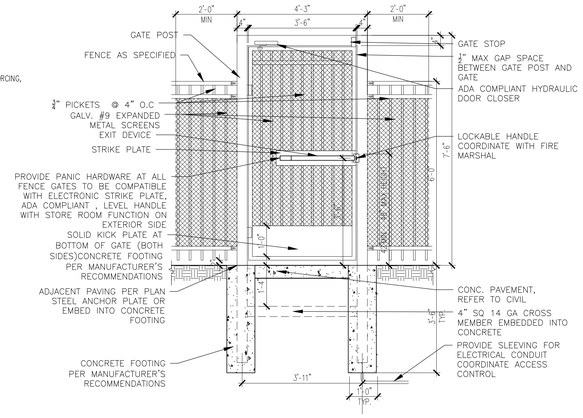
8 CHAINLINK FENCE CORNER DETAIL
3/8"=1'-0"



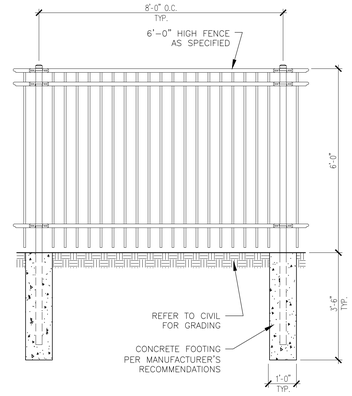
9 CHAINLINK FENCE GATE DETAIL
3/8"=1'-0"



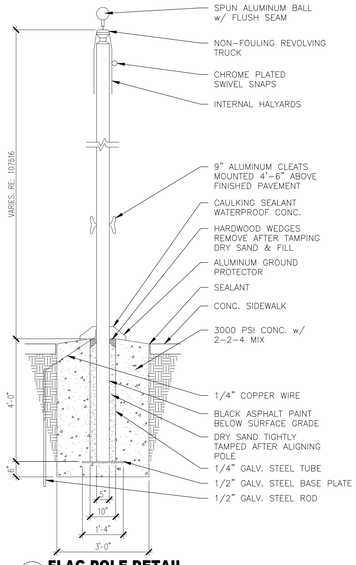
2 DUMPSTER ENCLOSURE DETAIL
N.T.S.



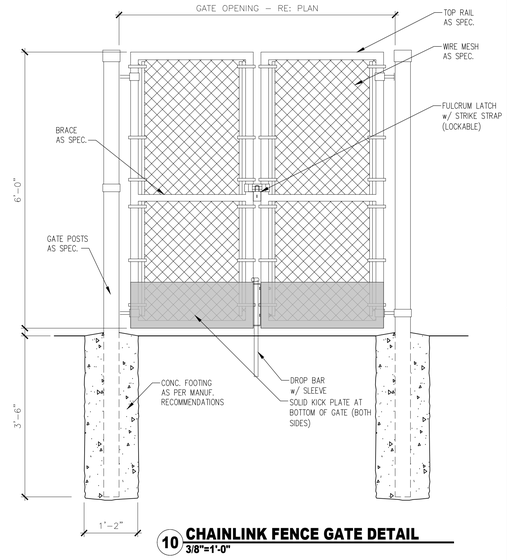
3 DECORATIVE GATE DETAIL/ELEVATION
1/2" = 1'-0"



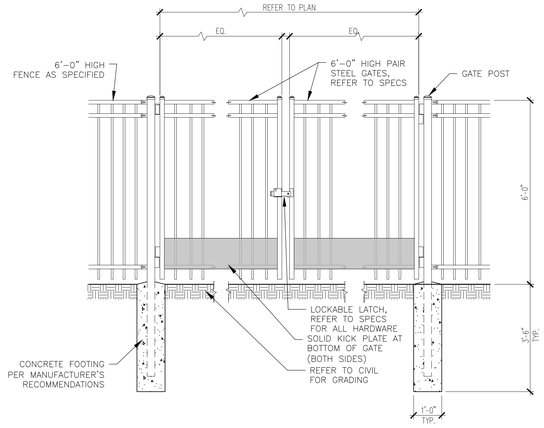
4 TYP., DECORATIVE FENCE DETAIL
1/2" = 1'-0"



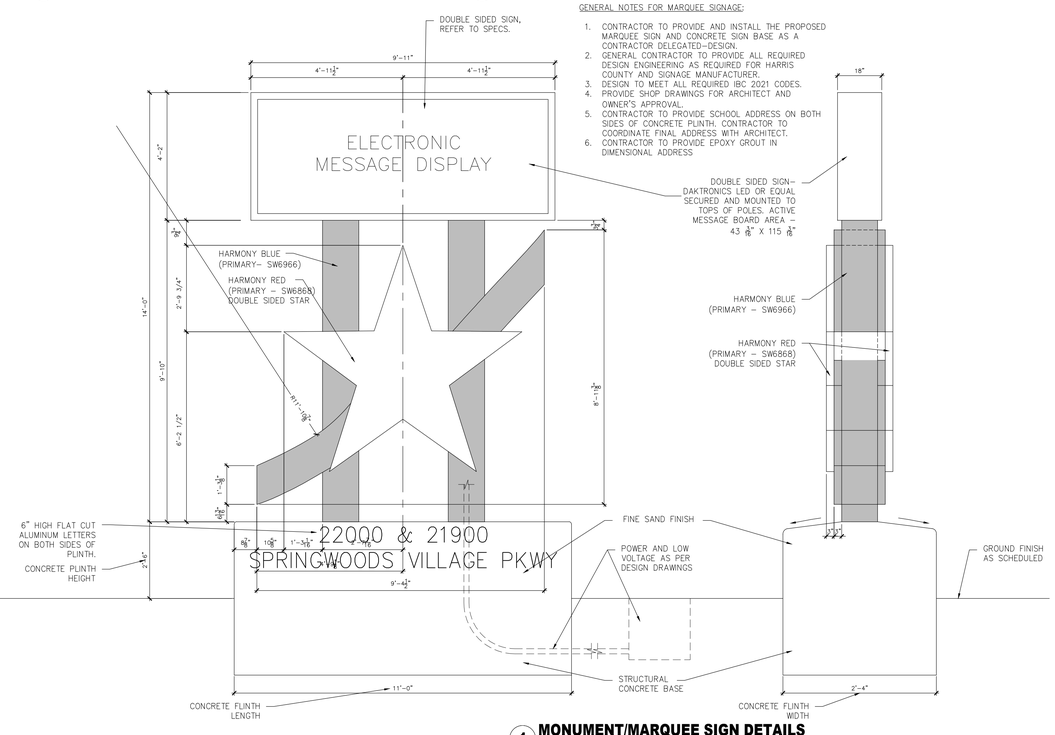
5 FLAG POLE DETAIL
1/4" = 1'-0"



10 CHAINLINK FENCE GATE DETAIL
3/8"=1'-0"



6 DECORATIVE GATE DETAIL/ELEVATION
1/2" = 1'-0"



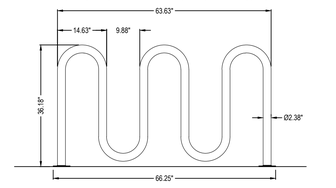
1 MONUMENT/MARQUEE SIGN DETAILS
1/2" = 1'-0"

SITE FURNISHING DETAILS

NOTE:
7-BIKE/5-LOOP BIKE RACK BY BELSON OUTDOORS.
MODEL - #CCBR-7UR-BK

BIKE RACK - SURFACE MOUNT. POWDER COATED, THIS EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

FADE-RESISTANT, POWDER COATED STEEL AND ALUMINUM COMPONENTS FEATURE A STATE-OF-THE-ART PRIMER PROVEN TO PREVENT RUSTING.



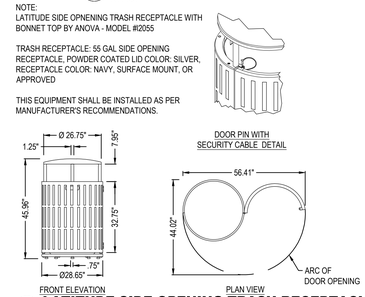
FRONT ELEVATION

11 7-BIKE/5-LOOP BIKE RACK
N.T.S.

NOTE:
LATITUDE SIDE OPNENING TRASH RECEPTACLE WITH BONNET TOP BY ANOVA - MODEL #2055

TRASH RECEPTACLE: 55 GAL SIDE OPENING RECEPTACLE, POWDER COATED LID COLOR: SILVER, RECEPTACLE COLOR: NAVY, SURFACE MOUNT, OR APPROVED

THIS EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.



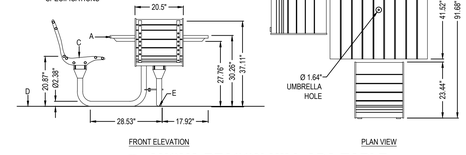
12 LATITUDE SIDE OPENING TRASH RECEPTACLE
N.T.S.

NOTE:
THE TABLE SHOWN BELOW WILL INSTALLED WITH (4) SEATS AND (3) SEATS TO COMPLY WITH ACCESSIBILITY REQUIREMENTS. PLEASE REFER TO MATERIAL LEGEND WHICH CALLS OUT FOR ACCESSIBLE TABLES WITH THREE (3).

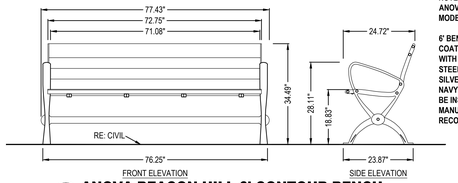
FADE-RESISTANT, POWDER COATED STEEL AND ALUMINUM COMPONENTS FEATURE A STATE-OF-THE-ART PRIMER PROVEN TO PREVENT RUSTING.

ANOVA BEACON HILL ADA TABLE, MODEL: BH1833SR OR BH1840SR AS SPECIFIED ON PLANS, STEEL COLOR: TEXTURED PEWTER, WITH RECYCLED PLASTIC SLATS COLOR MAHOGANY, WITH 4 SEATS, SURFACE MOUNT, THIS EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION, FOR INFORMATION.
http://www.anovafurnishinfscom

A. 10-GAUGE STEEL TABLE TOP FRAME
B. 1"X3.5" RECYCLED PLASTIC PLANKS
C. ALUMINUM AND STEEL PLATES
D. RE: CIVIL FOR CONCRETE
E. SURFACE MOUNT AS PER MANUFACTURER'S SPECIFICATIONS



14 ANOVA BEACON HILL ADA TABLE
N.T.S.



NOTE:
ANOVA BEACON HILL - MODEL# BH188OR

6' BENCH, POWDER COATED, SURFACE MOUNT, WITH ARMS, MATERIAL: STEEL, FRAME COLOR: SILVER, SEAT COVER: NAVY, THIS ITEMS SHALL BE INSTALLED AS PER MANUFACTURE'S RECOMMENDATIONS.

13 ANOVA BEACON HILL 6' CONTOUR BENCH
N.T.S.

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San Antonio, Texas 78216
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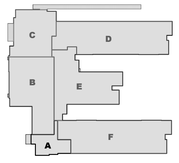
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 8245 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

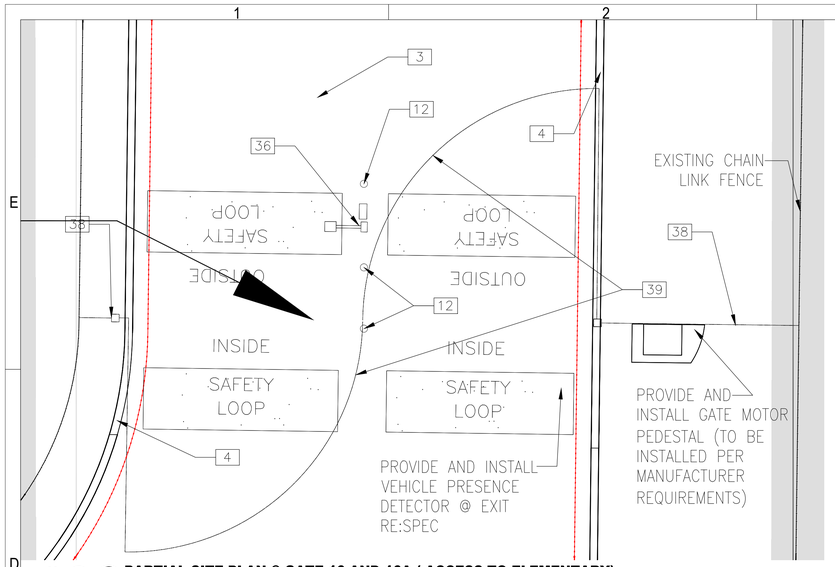
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

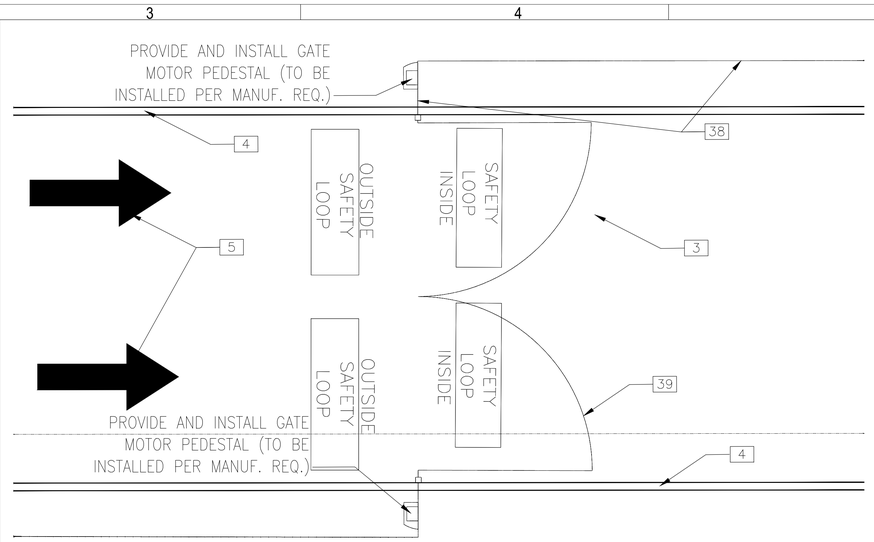
No.	Description	Date

Sheet Title:
SITE DETAILS

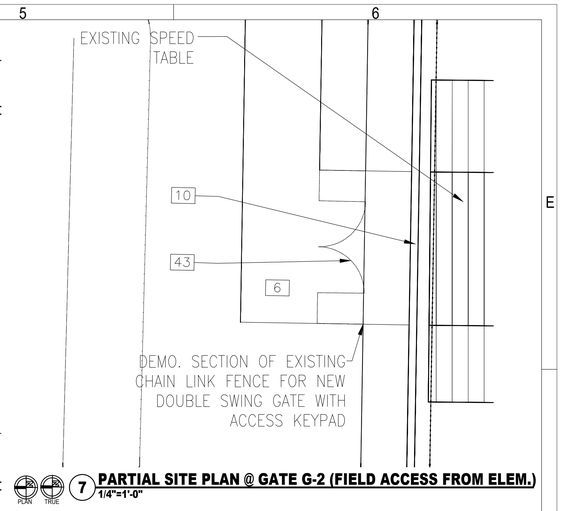
AS-103



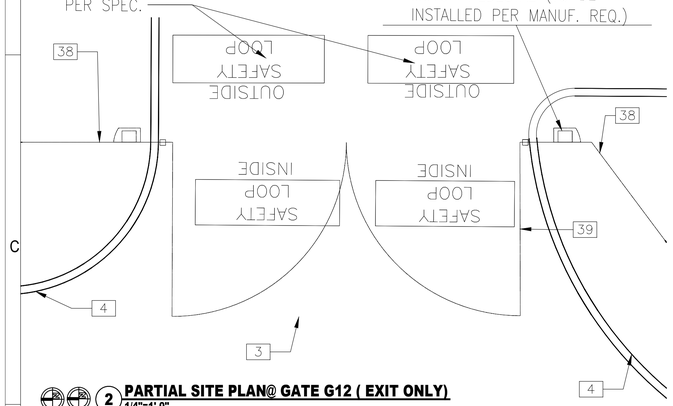
PLAN TRUE **3 PARTIAL SITE PLAN @ GATE 16 AND 16A (ACCESS TO ELEMENTARY)**
1/4"=1'-0"



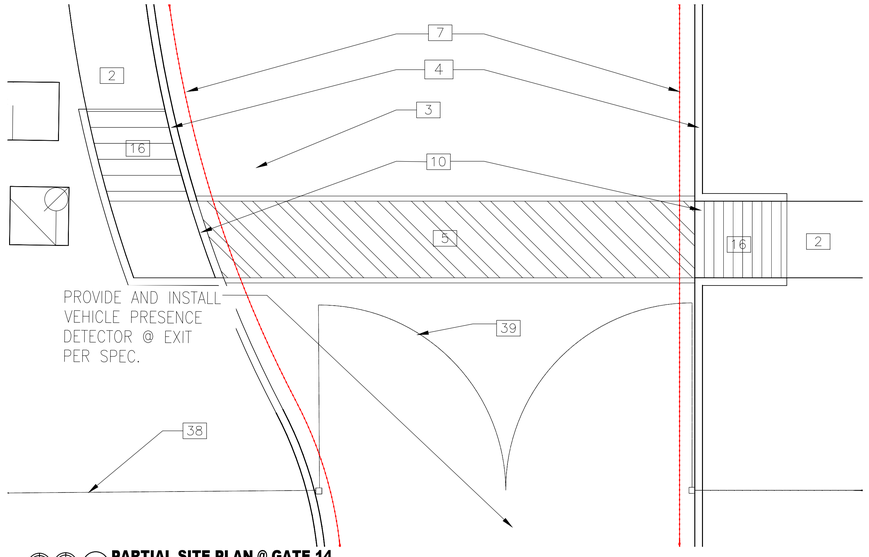
PLAN TRUE **6 PARTIAL SITE PLAN @ GATE G13 (EXIT ONLY)**
1/4"=1'-0"



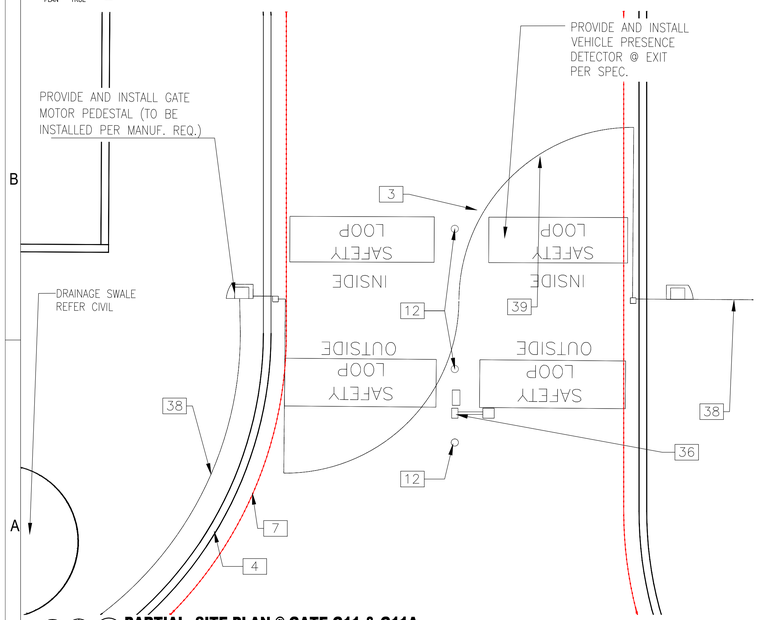
PLAN TRUE **7 PARTIAL SITE PLAN @ GATE G-2 (FIELD ACCESS FROM ELEM.)**
1/4"=1'-0"



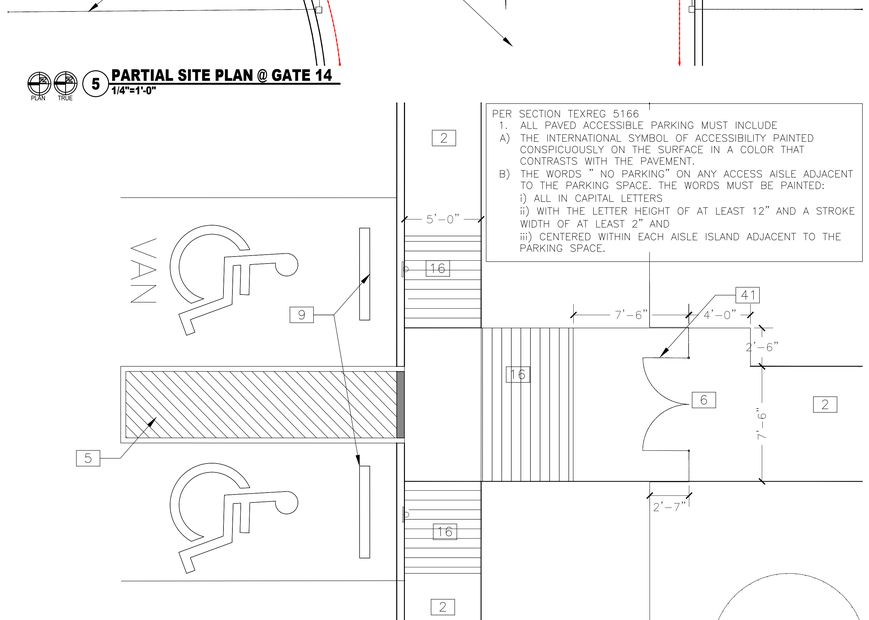
PLAN TRUE **2 PARTIAL SITE PLAN@ GATE G12 (EXIT ONLY)**
1/4"=1'-0"



PLAN TRUE **5 PARTIAL SITE PLAN @ GATE 14**
1/4"=1'-0"



PLAN TRUE **1 PARTIAL SITE PLAN @ GATE G11 & G11A**
1/4"=1'-0"



PLAN TRUE **4 PARTIAL SITE PLAN @ GATE G-9**
1/4"=1'-0"

SITE KEYNOTES 00

1. EXISTING DETENTION POND / DRAINAGE PER PHASE 1
2. PROVIDE AND INSTALL CONCRETE SIDEWALK – TYPICAL, RE: CIVIL DRAWING
3. PROVIDE AND INSTALL PAVEMENT – TYPICAL, RE: CIVIL DRAWINGS
4. PROVIDE AND INSTALL CONCRETE CURB, RE: CIVIL DRAWINGS
5. INSTALL PAVEMENT STRIPING – TYPICAL, RE: CIVIL DRAWINGS
6. PROVIDE AND INSTALL CONCRETE FLATWORK – TYPICAL RE: CIVIL DRAWINGS
7. DESIGNATED "FIRE LANE" PROVIDE AND INSTALL STRIPING – NO MORE THAN 50'–0", RE: AS–104
8. PROVIDE AND INSTALL "FIRE LANE" SIGNS TO BE INSTALLED NO LESS THAN 75'–0" APART WHERE FIRE LANE STRIPING IS NOT PRACTICAL.
9. PROVIDE AND INSTALL CONCRETE WHEEL STOP – TYPICAL – RE: CIVIL FOR DETAILS
10. PROVIDE AND INSTALL FLUSH CURBS, RE: CIVIL DRAWINGS
11. PROVIDE AND INSTALL SURFACE MOUNTED STOP BOLLARDS – REFER SPEC. SECTION 32 39 13–2
12. PROVIDE AND INSTALL STEEL PIPE BOLLARD, RE: 8/AS–104
13. PROVIDE AND INSTALL TRAFFIC SPEED BUMPS – TYPICAL (10 FT LONG, RUBBER W/ END CAPS – ASPHALT INSTALLATION)
14. PROVIDE AND INSTALL SPEED TABLE (20 FT X 36 FT)
15. PROVIDE AND INSTALL HANDICAP SIGN – TYPICAL. SEE DETAIL ON SHEET AS–101 AND RE: CIVIL FOR ADDITIONAL REQUIREMENTS
16. PROVIDE AND INSTALL HANDICAP RAMP – TYPICAL, RE: CIVIL DRAWINGS
17. PROVIDE AND INSTALL FLAG POLE (2 EA. – TYPE A – 25 FEET FOR USA FLAG AND 2 EA. – TYPE B – 20 FEET FOR OTHER FLAGS. RE: DETAIL 12/AS–104 AND SPECS.
18. PROVIDE AND INSTALL OUTDOOR BASKETBALL GOALS, FOUNDATION PER MANUFACTURER, RE: SPECS
19. PROVIDE AND INSTALL OUTDOOR PEDESTAL WATER FOUNTAIN RE: PLUMBING SPECS.
20. PROVIDE AND INSTALL OUTDOOR BASKETBALL COURT – POST–TENSIONED CONCRETE SLAB, RE: 1/AS–103
21. BASKETBALL COURT STRIPING, COORDINATE FINAL COLOR SELECTIONS WITH ARCHITECT. (4 COLORS)
22. PROVIDE AND INSTALL TRASH RECEPTACLE SEE SHEET AS–103 FOR DETAILS
23. PROVIDE AND INSTALL ADA TABLE SEE SHEET AS–103 FOR DETAILS
24. PROVIDE AND INSTALL BENCHES SEE SHEET AS–103 FOR DETAILS
25. PROVIDE AND INSTALL BIKE RACKS SEE SHEET AS–103 FOR DETAILS
26. PROVIDE AND INSTALL NCAA STANDARD NATURAL GRASS FOOTBALL (WITH GOALS, SCOREBOARD, STRIPING & PLAY CLOCKS, SCORE–TABLE) REFER TO SHEET AS–10X FOR DETAILS
27. PROVIDE AND INSTALL SCOREBOARD, RE: SPECS
28. PROVIDE AND INSTALL FIELD TIME CLOCKS – 2 NOS. , RE: SPECS
29. PROVIDE AND INSTALL TRACK AROUND FIELD TO MEET NFHS STANDARD. REFER DRAWINGS AS–10X FOR DETAILS
30. PROVIDE AND INSTALL "H" STYLE FOOTBALL SOCCER GOAL SYSTEM INCORPORATING FULL METAL FRAME FOR SOCCER GOAL DEPTH AND HEIGHT.
31. PROVIDE AND INSTALL SPORTS FIELD NETTING SAFETY SYSTEM, CONCRETE FOOTING AS PER NETTING MANUFACTURE, RE: SPECS
32. PROVIDE & INSTALL OUTDOOR ALUMINUM BLEACHERS, ANCHORED TO CONCRETE PAD – CONCRETE PAD DESIGN PER BLEACHER MANUFACTURER, COORDINATE WITH NATURAL GRASS FIELD
33. PROVIDE AND INSTALL SPORTS LIGHTING, RE: MEP DRAWINGS
34. PROVIDE AND INSTALL PAD MOUNTED TRANSFORMER & GENERATOR (FENCED IN ELECTRIC YARD) RE: MEP & STRUCTURAL PLANS. REFER SHEET AS–105 FOR DETAILS
35. PROVIDE AND INSTALL SITE LIGHTING – TYPICAL, RE: MEP DRAWINGS
36. PROVIDE AND INSTALL PEDESTAL FOR ACCESS EQUIPMENT / KNOX BOX AT ENTRY GATES. COORDINATE WITH MEP/ LOW VOLTAGE. PROVIDE AND INSTALL RELEASE BUTTON CONTROL IN FRONT OFFICE AREA FOR ALL ENTRY GATES.
37. PROVIDE AND INSTALL DUMPSTER ENCLOSURE, RE: 1/AS–104
38. PROVIDE AND INSTALL 6'–0" DECORATIVE STEEL FENCE (BLACK) – REFERENCE SHEET AS–107 FENCING PLAN
39. PROVIDE AND INSTALL VEHICULAR DECORATIVE STEEL (BLACK) AUTOMATIC SWING GATE, PROVIDE SOS DEVICE, OVERRIDE SWITCH & KNOX BOX KEYPAD (FINAL LOCATION TBD AND COORDINATED WITH FIRE MARSHAL). RE: SPECS
40. PROVIDE AND INSTALL CONTROLS FOR SPORTS LIGHTING, REFER TO MEP DRAWINGS.
41. PROVIDE AND INSTALL DECORATIVE STEEL (BLACK) SWING PEDESTRIAN GATES. REFER SHEET AS–103 & AS–106 FOR DETAILS
42. PROVIDE AND INSTALL 6'–0" CHAIN LINK FENCE WITH BLUE VINYL SLATS– REFERENCE SHEET AS–106 FENCING PLAN
43. PROVIDE AND INSTALL PEDESTRIAN SWING GATES AT CHAIN LINK FENCE. REFER SHEET AS–103 FOR DETAILS.
44. PROVIDE AND INSTALL 4'–0" HIGH BLACK VINYL FENCE AROUND TRACK AND FIELD. REFER SHEET AS–106 FENCING PLAN FOR DETAILS
45. PROVIDE AND INSTALL ACCESS 4'–0" GATES AT BLACK VINYL FENCE, REFER SHEET AS–106 , FENCING PLAN FOR DETAILS
46. PROVIDE AND INSTALL ELECTRICAL PANEL FOR IRRIGATION PUMP. REFER TO MEP DRAWINGS
47. PROVIDE AND INSTALL PRE – ENGINEERED DROP OF CANOPY
48. PROVIDE AND INSTALL MARQUEE PER SHEET A–103
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52. PROVIDE AND INSTALL GREASE TRAP REFER TO MEP DRAWINGS FOR DETAILS
53. PROVIDE AND INSTALL CONCRETE BENCHES (BELSON OUTDOORS – OUR TOWN SERIES CONCRETE BACKLESS BENCH MODEL NO. WS900 – 72"L X 24"W X 18"H)

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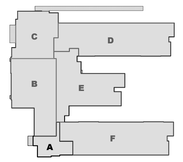
REGISTERED ARCHITECT RAYMOND C. GIGNAC 21236 STATE OF TEXAS

EXPIRATION DATE 11/30/2026 SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

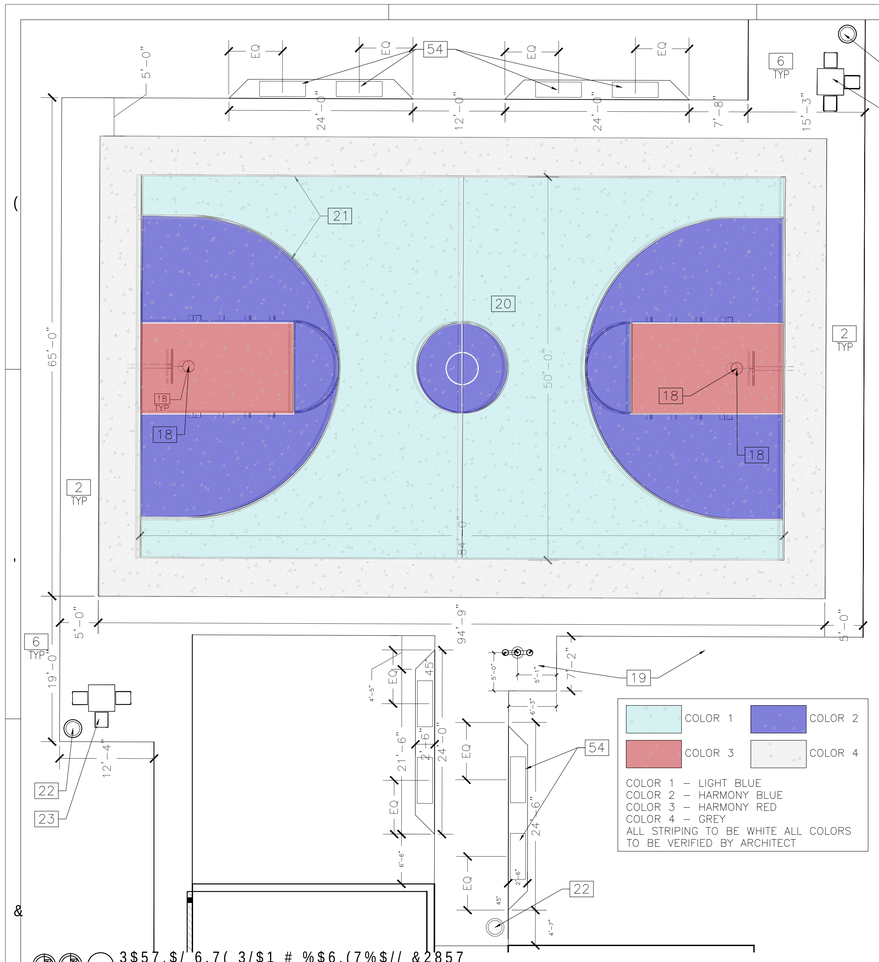
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL ARCHITECTURAL SITE PLAN DETAILS

AS-104



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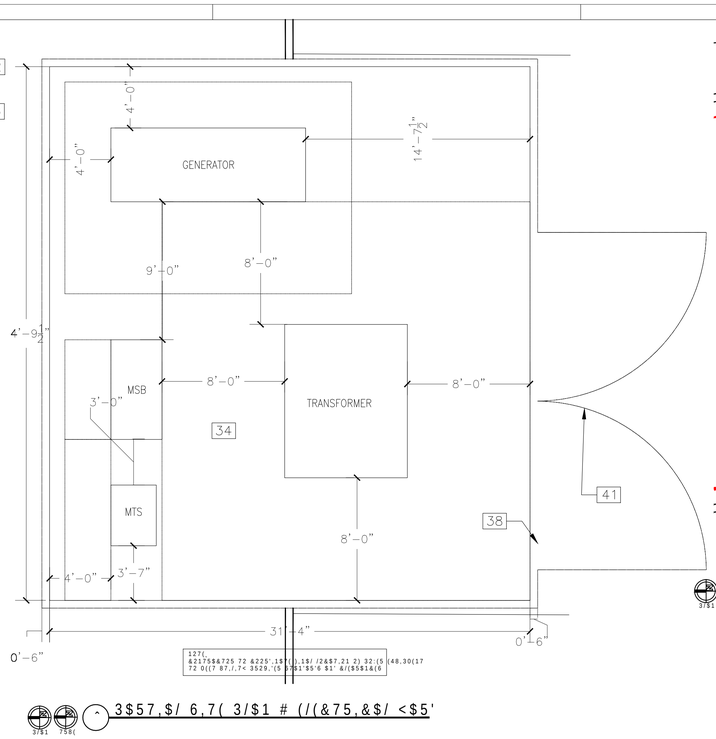

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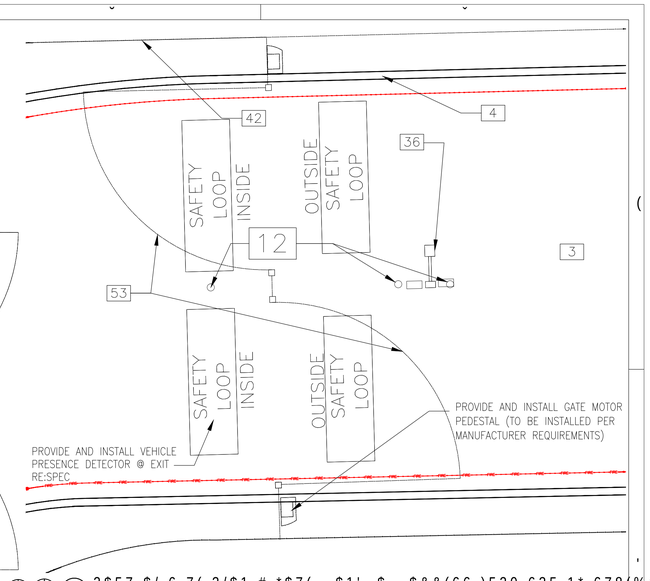

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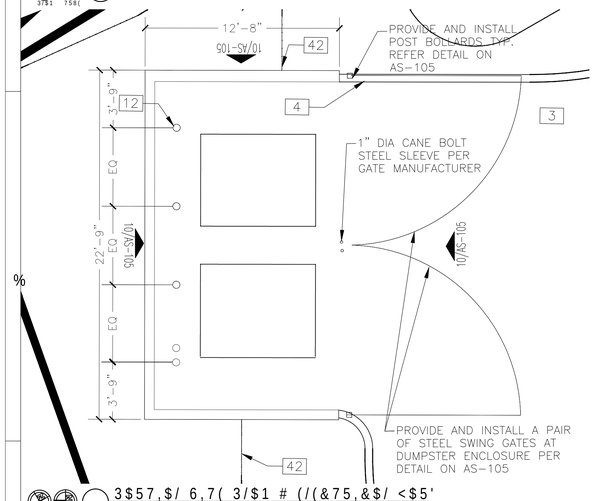

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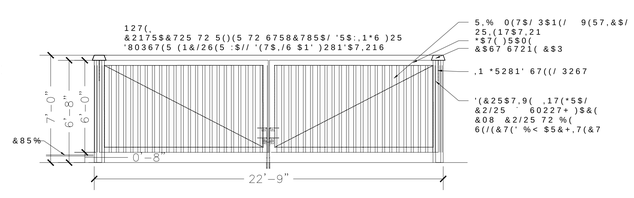

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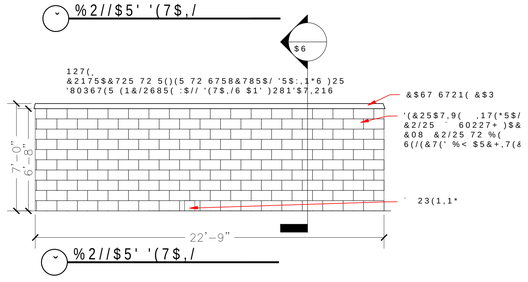

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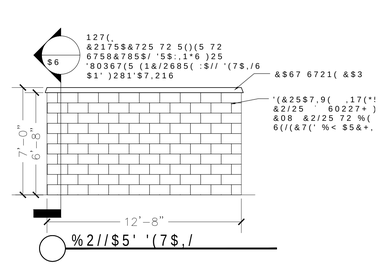

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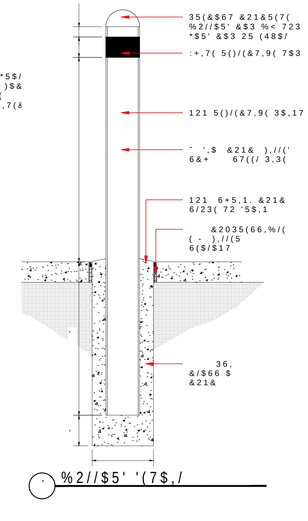

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SITE KEYNOTES 00

1. EXISTING DETENTION POND / DRAINAGE PER PHASE 1
2. PROVIDE AND INSTALL CONCRETE SIDEWALK – TYPICAL, RE: CIVIL DRAWING
3. PROVIDE AND INSTALL PAVEMENT – TYPICAL, RE: CIVIL DRAWINGS
4. PROVIDE AND INSTALL CONCRETE CURB, RE: CIVIL DRAWINGS
5. INSTALL PAVEMENT STRIPING – TYPICAL, RE: CIVIL DRAWINGS
6. PROVIDE AND INSTALL CONCRETE FLATWORK – TYPICAL RE: CIVIL DRAWINGS
7. DESIGNATED "FIRE LANE" PROVIDE AND INSTALL STRIPING – NO MORE THAN 50'–0", RE: AS–104
8. PROVIDE AND INSTALL "FIRE LANE" SIGNS TO BE INSTALLED NO LESS THAN 75'–0" APART WHERE FIRE LANE STRIPING IS NOT PRACTICAL.
9. PROVIDE AND INSTALL CONCRETE WHEEL STOP – TYPICAL – RE: CIVIL FOR DETAILS
10. PROVIDE AND INSTALL FLUSH CURBS, RE: CIVIL DRAWINGS
11. PROVIDE AND INSTALL SURFACE MOUNTED STOP BOLLARDS – REFER SPEC. SECTION 32 39 13–2
12. PROVIDE AND INSTALL STEEL PIPE BOLLARD, RE: 8/AS–104
13. PROVIDE AND INSTALL TRAFFIC SPEED BUMPS – TYPICAL (10 FT LONG, RUBBER W/ END CAPS – ASPHALT INSTALLATION)
14. PROVIDE AND INSTALL SPEED TABLE (20 FT X 36 FT)
15. PROVIDE AND INSTALL HANDICAP SIGN – TYPICAL, SEE DETAIL ON SHEET AS–101 AND RE: CIVIL FOR ADDITIONAL REQUIREMENTS
16. PROVIDE AND INSTALL HANDICAP RAMP – TYPICAL, RE: CIVIL DRAWINGS
17. PROVIDE AND INSTALL FLAG POLE (2 EA. – TYPE A – 25 FEET FOR USA FLAG AND 2 EA. – TYPE B – 20 FEET FOR OTHER FLAGS. RE: DETAIL 12/AS–104 AND SPECS.
18. PROVIDE AND INSTALL OUTDOOR BASKETBALL GOALS, FOUNDATION PER MANUFACTURER, RE: SPECS
19. PROVIDE AND INSTALL OUTDOOR PEDESTAL WATER FOUNTAIN RE: PLUMBING SPECS.
20. PROVIDE AND INSTALL OUTDOOR BASKETBALL COURT – POST–TENSIONED CONCRETE SLAB, RE: 1/AS–103
21. BASKETBALL COURT STRIPING, COORDINATE FINAL COLOR SELECTIONS WITH ARCHITECT. (4 COLORS)
22. PROVIDE AND INSTALL TRASH RECEPTACLE SEE SHEET AS–103 FOR DETAILS
23. PROVIDE AND INSTALL ADA TABLE SEE SHEET AS–103 FOR DETAILS
24. PROVIDE AND INSTALL BENCHES SEE SHEET AS–103 FOR DETAILS
25. PROVIDE AND INSTALL BIKE RACKS SEE SHEET AS–103 FOR DETAILS
26. PROVIDE AND INSTALL NCAA STANDARD NATURAL GRASS FOOTBALL (WITH GOALS, SCOREBOARD, STRIPING & PLAY CLOCKS, SCORE–TABLE) REFER TO SHEET AS–10X FOR DETAILS
27. PROVIDE AND INSTALL SCOREBOARD, RE: SPECS
28. PROVIDE AND INSTALL FIELD TIME CLOCKS – 2 NOS. , RE: SPECS
29. PROVIDE AND INSTALL TRACK AROUND FIELD TO MEET NFHS STANDARD. REFER DRAWINGS AS–10X FOR DETAILS
30. PROVIDE AND INSTALL "H" STYLE FOOTBALL SOCCER GOAL SYSTEM INCORPORATING FULL METAL FRAME FOR SOCCER GOAL DEPTH AND HEIGHT.
31. PROVIDE AND INSTALL SPORTS FIELD NETTING SAFETY SYSTEM, CONCRETE FOOTING AS PER NETTING MANUFACTURE, RE: SPECS
32. PROVIDE & INSTALL OUTDOOR ALUMINUM BLEACHERS, ANCHORED TO CONCRETE PAD – CONCRETE PAD DESIGN PER BLEACHER MANUFACTURER, COORDINATE WITH NATURAL GRASS FIELD
33. PROVIDE AND INSTALL SPORTS LIGHTING, RE: MEP DRAWINGS
34. PROVIDE AND INSTALL PAD MOUNTED TRANSFORMER & GENERATOR (FENCED IN ELECTRIC YARD) RE: MEP & STRUCTURAL PLANS. REFER SHEET AS–105 FOR DETAILS
35. PROVIDE AND INSTALL SITE LIGHTING – TYPICAL, RE: MEP DRAWINGS
36. PROVIDE AND INSTALL PEDESTAL FOR ACCESS EQUIPMENT / KNOX BOX AT ENTRY GATES. COORDINATE WITH MEP/ LOW VOLTAGE. PROVIDE AND INSTALL RELEASE BUTTON CONTROL IN FRONT OFFICE AREA FOR ALL ENTRY GATES.
37. PROVIDE AND INSTALL DUMPSTER ENCLOSURE, RE: 1/AS–104
38. PROVIDE AND INSTALL 6'–0" DECORATIVE STEEL FENCE (BLACK) – REFERENCE SHEET AS–107 FENCING PLAN
39. PROVIDE AND INSTALL VEHICULAR DECORATIVE STEEL (BLACK) AUTOMATIC SWING GATE, PROVIDE SOS DEVICE, OVERRIDE SWITCH & KNOX BOX KEYPAD (FINAL LOCATION TBD AND COORDINATED WITH FIRE MARSHAL). RE: SPECS
40. PROVIDE AND INSTALL CONTROLS FOR SPORTS LIGHTING, REFER TO MEP DRAWINGS.
41. PROVIDE AND INSTALL DECORATIVE STEEL (BLACK) SWING PEDESTRIAN GATES. REFER SHEET AS–103 & AS–106 FOR DETAILS
42. PROVIDE AND INSTALL 6'–0" CHAIN LINK FENCE WITH BLUE VINYL SLATS– REFERENCE SHEET AS–106 FENCING PLAN
43. PROVIDE AND INSTALL PEDESTRIAN SWING GATES AT CHAIN LINK FENCE. REFER SHEET AS–103 FOR DETAILS.
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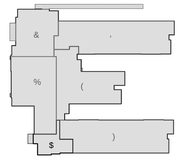

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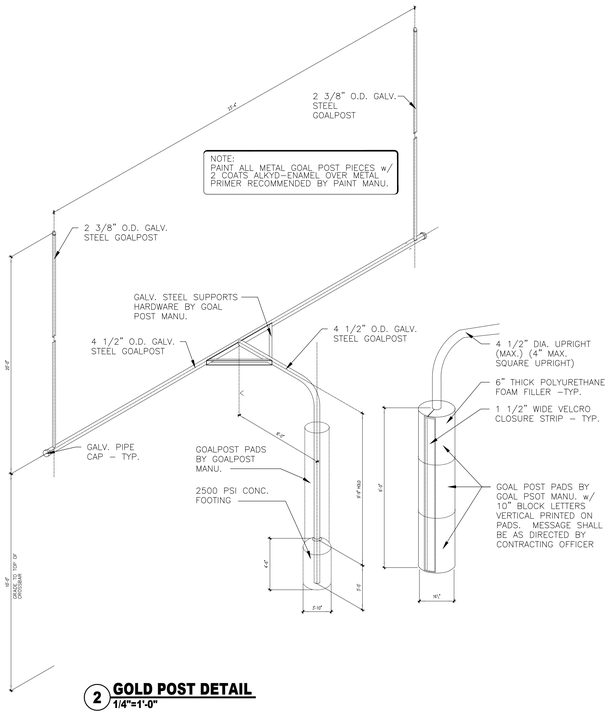
SPORTS FIELD GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT INCLUDED IN THE PROJECT MANUAL FOR COORDINATION.
2. ALL SPORTS FIELDS LAYOUTS AND SIZES SHALL MEET THE NCAA AND UIL STANDARDS.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS LAYOUT OF THE SPORTS FIELD AND AND EQUIPMENT AND SAFETY NETTING.
4. DEPTH OF INSERTED GOAL POST WILL BE ADJUSTED SUCH THAT THE DISTANCE FROM THE TOP OF THE CROSSBAR ON THE GOAL POST (MEASURED AT THE UPRIGHT) TO THE TOP OF THE TURF IS 10'-0" AT THE END ZONE LINE.
5. CONTRACTOR SHALL CONFIRM INSTALLATION AND FOUNDATION DETAILS WITH GOAL POST MANUFACTURER.
6. REFER TO SPECS FOR GOAL POST STYLE AND MANUFACTURER.
7. SPORTS FIELD SUB-DRAINAGE PIPING TO BE CONNECTED TO CIVIL STORM DRAINAGE PIPING. COORDINATE WITH CIVIL AND SPORTS FIELD MANUFACTURER.



2 GOLD POST DETAIL
1/4"=1'-0"

NOTES:
1. TURF CONTRACTOR TO PROVIDE 2 SETS OF TURF COVERED LIDS FOR GOAL POST FOUNDATION. ONE LID FOR GOAL POST IN PLACE AND ONE LID FOR GOAL POST REMOVED.
2. DEPTH OF INSERTED GOAL POST WILL BE ADJUSTED SUCH THAT THE DISTANCE FROM THE TOP OF THE CROSSBAR ON THE GOAL POST (MEASURED AT THE UPRIGHT) TO THE TOP OF THE TURF IS 10'-0" AT THE END ZONE LINE.
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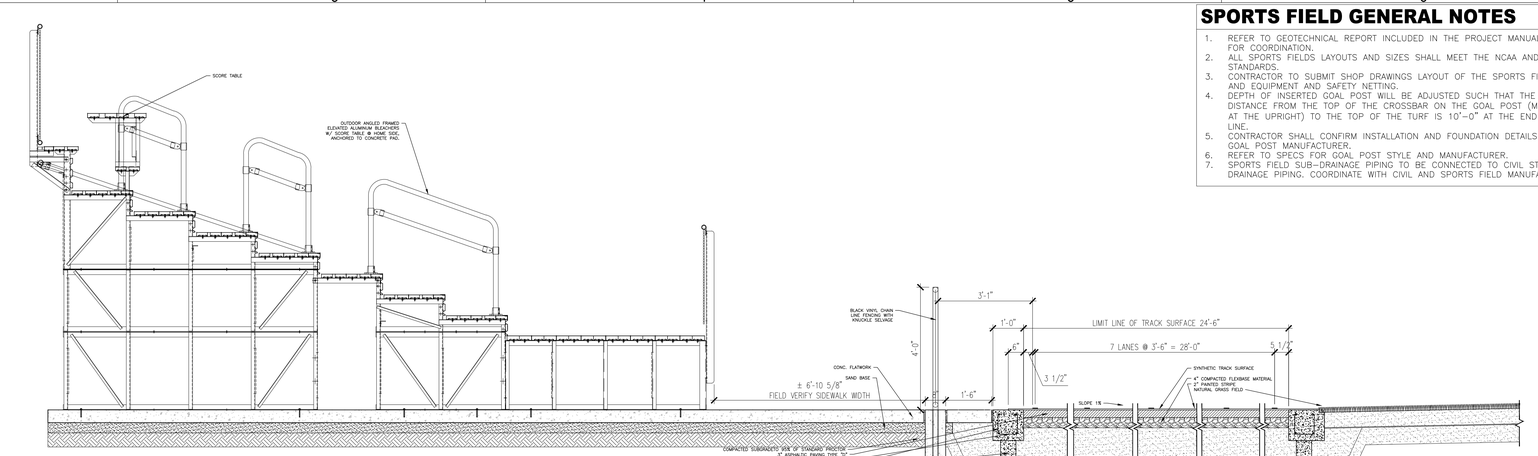
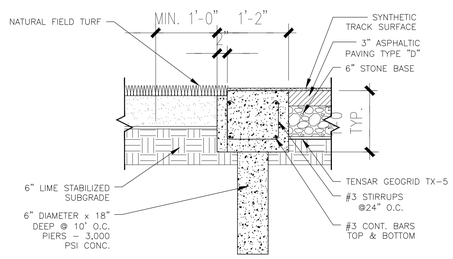
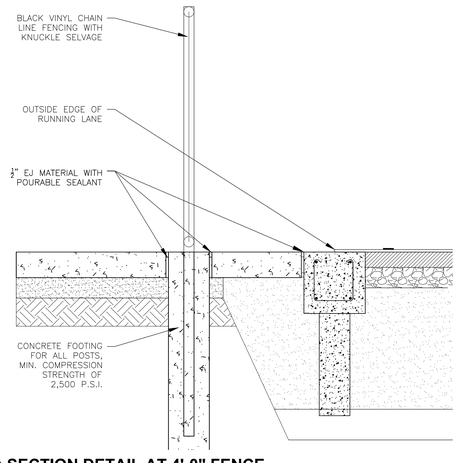


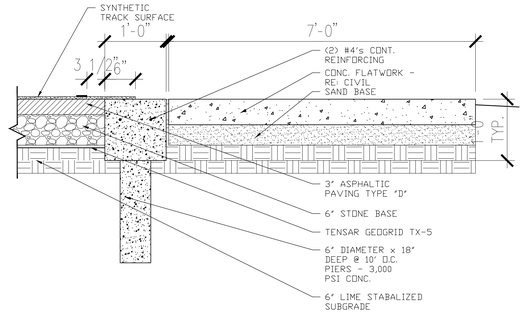
4 PARTIAL SECTION ACROSS BLEACHERS TRACK & FIELD
1/2"=1'-0"



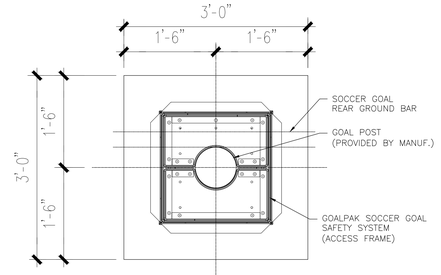
3 SECTION DETAIL AT SPORTS FIELD
SCALE: 1" =1'-0"

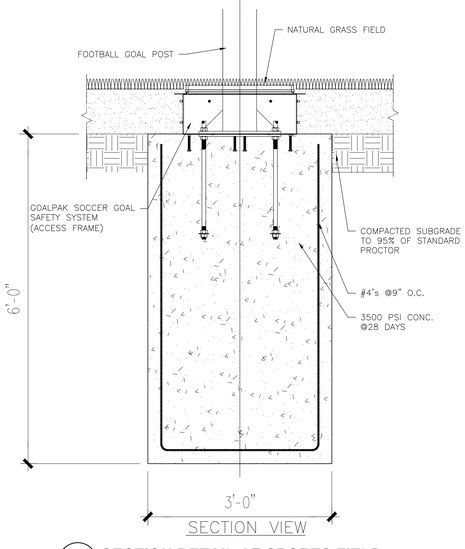


4 SECTION DETAIL AT 4'-0" FENCE
SCALE: 1" =1'-0"



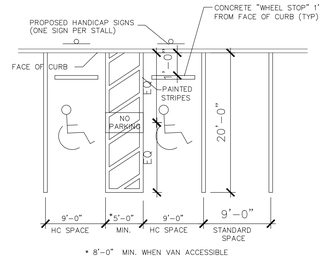
3 SECTION DETAIL AT TRACK & SIDEWALK
SCALE: 1" =1'-0"

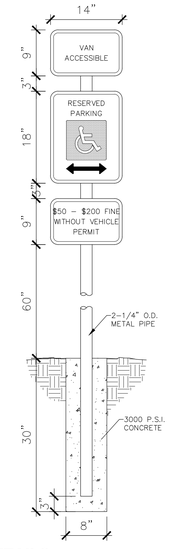




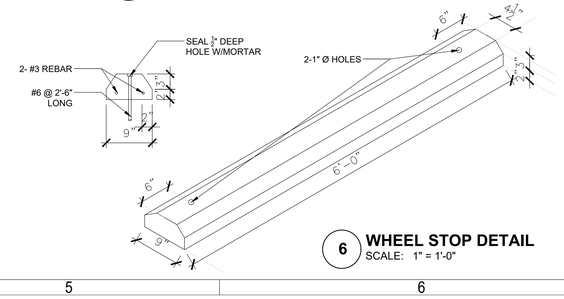
1 SECTION DETAIL AT SPORTS FIELD
SCALE: 1" =1'-0"

NOTES:
1. VAN ACCESSIBLE SIGN SHALL BE INCLUDED ONLY AS REQUIRED FOR THE VAN ACCESSIBLE PARKING STALL.
2. PER SECTION TEXREG 5166
   a) ALL PAVED ACCESSIBLE PARKING MUST INCLUDE
   - i) THE INTERNATIONAL SYMBOL OF ACCESSIBILITY PAINTED CONSPICUOUSLY ON THE SURFACE IN A COLOR THAT CONTRASTS THE PAVEMENT;
   - (ii) THE WORDS "NO PARKING" PAINTED ON ANY ACCESS AISLE ADJACENT TO THE PARKING SPACE. THE WORDS MUST BE PAINTED:
   - (a) IN ALL CAPITAL LETTERS;
   - (b) WITH A LETTER HEIGHT OF AT LEAST TWELVE INCHES, AND A STROKE WIDTH OF AT LEAST TWO INCHES; AND
   - (c) CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE; AND
   - (iv) A SIGN IDENTIFYING THE CONSEQUENCES OF PARKING ILLEGALLY IN A PAVED ACCESSIBLE PARKING SPACE. THE SIGN MUST:
   - (a) AT A MINIMUM STATE "VIOLATORS SUBJECT TO FINE AND TOWING"IN A LETTER HEIGHT OF AT LEAST ONE INCH;
   - (b) BE MOUNTED ON A POLE, POST, WALL OR FREESTANDING BOARD;
   - (c) BE NO MORE THAN EIGHT INCHES BELOW A SIGN REQUIRED BY TEXAS ACCESSIBILITY STANDARDS, 502.6; AND
   - (d) BE INSTALLED SO THAT THE BOTTOM EDGE OF THE SIGN IS NO LOWER THAN 48 INCHES AND NO HIGHER THAN 80 INCHES ABOVE GROUND LEVEL.





5 VAN ACCESSIBLE PARKING DETAILS
SCALE: NTS



6 WHEEL STOP DETAIL
SCALE: 1" = 1'-0"

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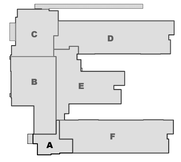
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
SITE TRACK AND FIELD DETAILS

AS-106

FENCE AND GATE TABLE				
GATE NO.	DESCRIPTION	SIZE	LOCATION	COMMENTS
G-1	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	12'-8"	ACCESS FROM SPRING STUEBNER	CARD READER/ KEY PAD / INTERCOM AUDIO VIDEO/ KNOX BOX
G-1A	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	12'-8"	EXIT TO SPRING STUEBNER	KNOX BOX
G-2	CHAIN LINK SWING GATE	6'-0"	ACCESS TO FIELD FROM ELEMENTARY SCHOOL	CARD READER / KEY PAD / PANIC HARDWARE
G-3	PEDESTRIAN SWING GATE	4'-0"	AT TRACK AND FIELD (BY BLEACHERS)	SINGLE GATE
G-4	PEDESTRIAN SWING GATE	4'-0"	AT TRACK AND FIELD (BY BLEACHERS)	SINGLE GATE
G-5	CHAIN LINK SWING GATE	12'-0"	ACCESS TO TRACK AND FIELD	DOUBLE GATE
G-6	CHAIN LINK SWING GATE	12'-0"	ACCESS TO TRACK AND FIELD	DOUBLE GATE
G-7	PEDESTRIAN SWING GATE	4'-0"	AT TRACK AND FIELD (BY BLEACHERS)	SINGLE GATE
G-8	PEDESTRIAN SWING GATE	4'-0"	AT TRACK AND FIELD (BY BLEACHERS)	SINGLE GATE
G-9	DECORATIVE PEDESTRIAN SWING GATE	6'-0"	ACCESS TO FIELD FROM PROPOSED PARKING LOT	CARD READER / KEY PAD / PANIC HARDWARE
G-10	CHAIN LINK SWING GATE	12'-0"	ACCESS TO DETENTION POND	DOUBLE GATE
G-11	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	12'-8"	ACCESS FROM SPRINGWOOD VILLAGE PARKWAY	CARD READER/ KEY PAD / INTERCOM AUDIO VIDEO/ KNOX BOX
G-11A	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	12'-8"	EXIT TO SPRINGWOOD VILLAGE PARKWAY	KNOX BOX
G-12	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	24'-6"	EXIT TO SPRINGWOOD VILLAGE PARKWAY	DOUBLE GATE KNOX BOX
G-13	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	24'-6"	EXIT TO SPRINGWOOD VILLAGE PARKWAY	DOUBLE GATE KNOX BOX
G-14	DECORATIVE VEHICULAR SWING GATE	24'-6"	ACCESS TO SECURE AREA (BUILDING/ TRACK & FIELD)	DOUBLE GATE KNOX BOX
G-15	DECORATIVE SWING GATE	22'-0"	ELECTRICAL YARD	DOUBLE GATE / PANIC HARDWARE / 180 DEGREE SWING
G-16	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	12'-8"	ELEMENTARY ACCESS FROM SPRING STUEBNER	CARD READER/ KEY PAD / INTERCOM AUDIO VIDEO/ KNOX BOX
G-16A	AUTOMATIC DECORATIVE VEHICULAR SWING GATE	12'-8"	ELEMENTARY EXIT TO SPRING STUEBNER	DOUBLE GATE
G-17	CHAIN LINK SWING GATE	12'-0"	ACCESS TO SITE BEYOND FENCE (NORTH OF ELECTRICAL YARD)	

6'-0" CHAIN LINK FENCE WITH BLUE VINYL SLATS

6'-0" BLACK DECORATIVE METAL FENCE

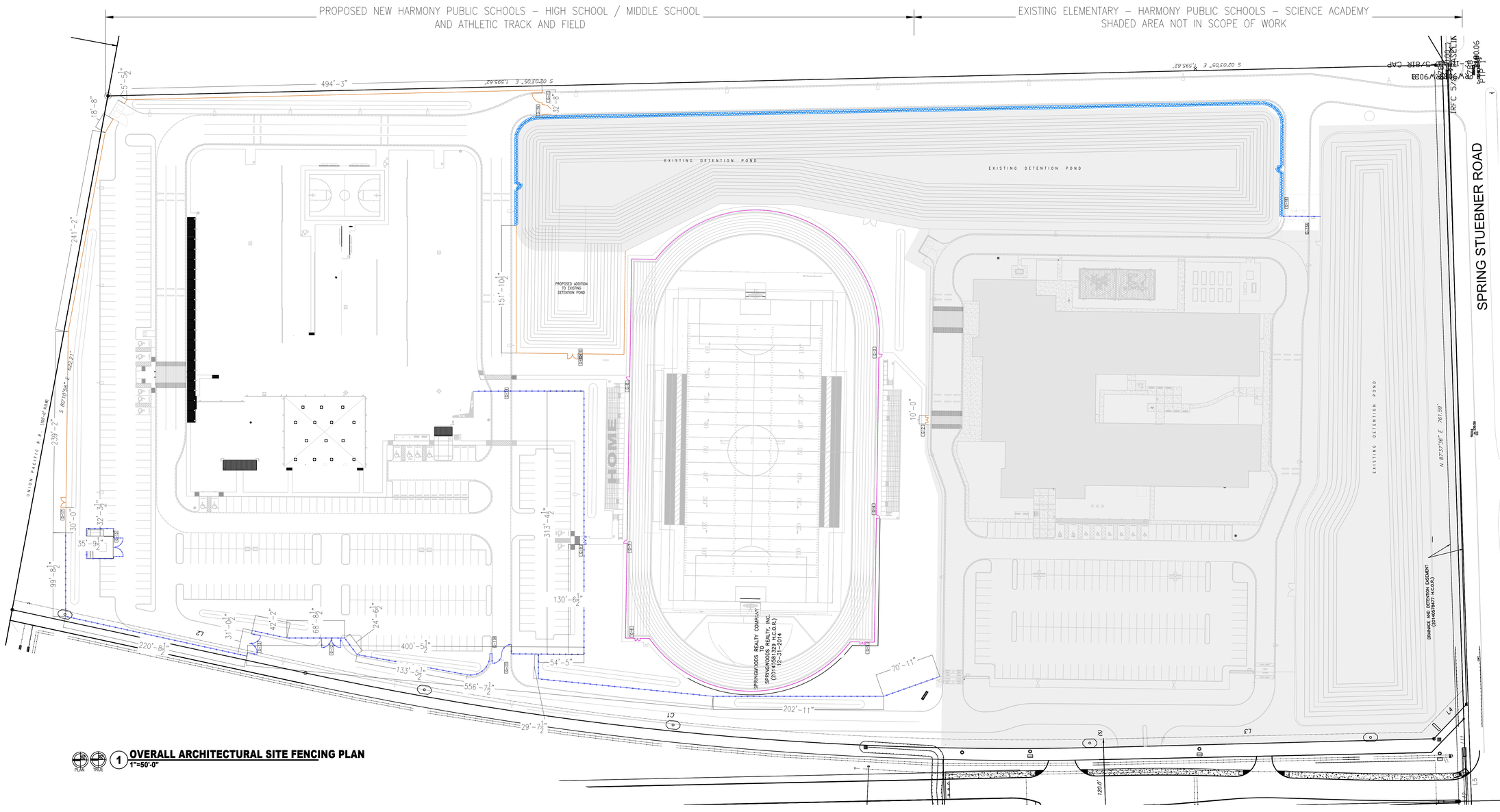
4'-0" BLACK VINYL CHAIN LINK FENCE AT TRACK AND FIELD

EXISTING 6'-0" CHAIN LINK FENCE CONTRACTOR TO PROVIDE & INSTALL BLUE VINYL SLATS

NOTE:
1. CONTRACTOR TO REFER TO ELEVATIONS AND DETAILS ON SHEETS AS-103, AS-104,AS-105
2. CONTRACTOR TO COORDINATE KNOX BOX LOCATION WITH LOCAL FIRE MARSHAL
3. CONTRACTOR TO PROVIDE SIREN OPERATED SENSOR SYSTEMS FOR ELECTRIC VEHICULAR GATES
4. CONTRACTOR TO VERIFY GATE SIZE ON SITE TO MEET LANE CLEARANCES & INSTALLATION CRITERIA
5. ALL INTERCOM ACCESS LOCATIONS TO HAVE RELEASE BUTTON AT FRONT OFFICE

PROPOSED NEW HARMONY PUBLIC SCHOOLS – HIGH SCHOOL / MIDDLE SCHOOL AND ATHLETIC TRACK AND FIELD

EXISTING ELEMENTARY – HARMONY PUBLIC SCHOOLS – SCIENCE ACADEMY SHADED AREA NOT IN SCOPE OF WORK



1 OVERALL ARCHITECTURAL SITE FENCING PLAN
1"=50'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
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F 956.365.4822
3700 N. 10TH, SUITE 205
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F 956.622.7313

CONSULTANTS:

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LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
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STRUCTURAL AND WINDSTORM:
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INFORMATION TECHNOLOGY:
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FOOD SERVICE DESIGN:
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594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

KEYPLAN

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Drawing Date: 11/20/2025
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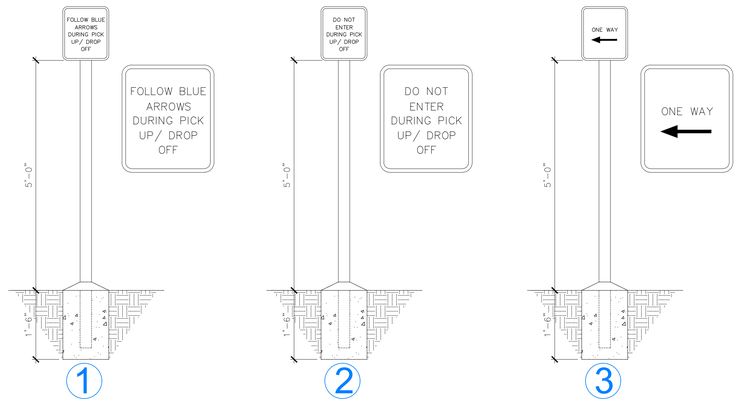
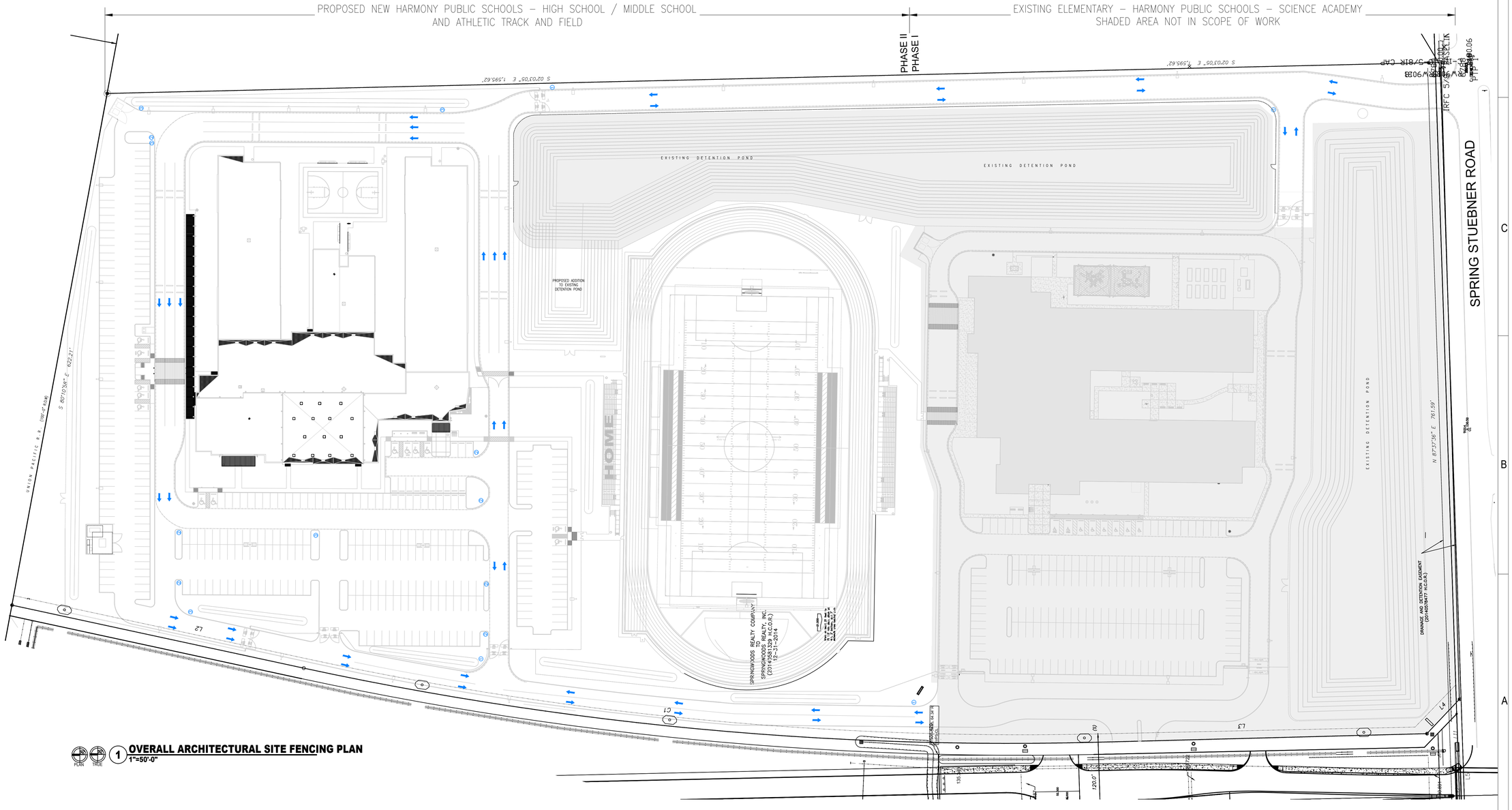
Sheet Title:
OVERALL ARCHITECTURAL SITE FENCING PLAN

AS-107



SIGN TYPE

BLUE STRIPING PER SPEC



1 OVERALL ARCHITECTURAL SITE FENCING PLAN
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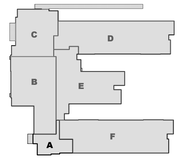

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
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Checked: RG

Revisions:

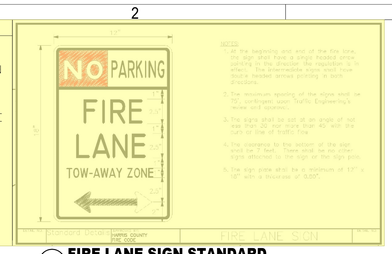
No.	Description	Date

Sheet Title:
OVERALL ARCHITECTURAL DROP OFF / PICK UP STRIPING

AS-108

GENERAL NOTES – FIRE LANE

1. THE ENTIRE BUILDING IS PROTECTED WITH A WET PIPE SPRINKLER SYSTEM. REFER TO FIRE PROTECTION DRAWINGS.
2. REFER TO CIVIL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION ON FIRE PROTECTING PIPING.
3. ALL PARKING LOT STRIPING SHALL BE WHITE EXCEPT FOR THE FIRE LANE STRIPING. DESIGNATED "FIRE LANE" AND NEW FIRE LANE SIGNS SHALL FOLLOW FIRE LANE REQUIREMENT. CONTRACTOR TO COORDINATE FINAL FIRE LANE SIGNS WITH LOCAL JURISDICTION.
4. FIRE LANES/ FIRE APPARATUS ACCESS ROADS SHALL BE MARKED ON THE CURBS OR PAVEMENT WITH A RED STRIPE 4" IN HEIGHT AND STENCILED EVERY FIFTY FEET IN WHITE LETTERS AT LEAST 3" IN HEIGHT WITH THE WORDS, " FIRE LANE – NO PARKING – TOW AWAY ZONE" SO AS TO PREVENT PARKING IN THE AREA.
5. WHERE STRIPING IS NOT PRACTICAL AN APPROVED FIRE LANE SIGN SHALL BE PLACED EVERY SEVENTY – FIVE (75) FEET. REFER TO DETAIL FOR SIGN REQUIREMENT.



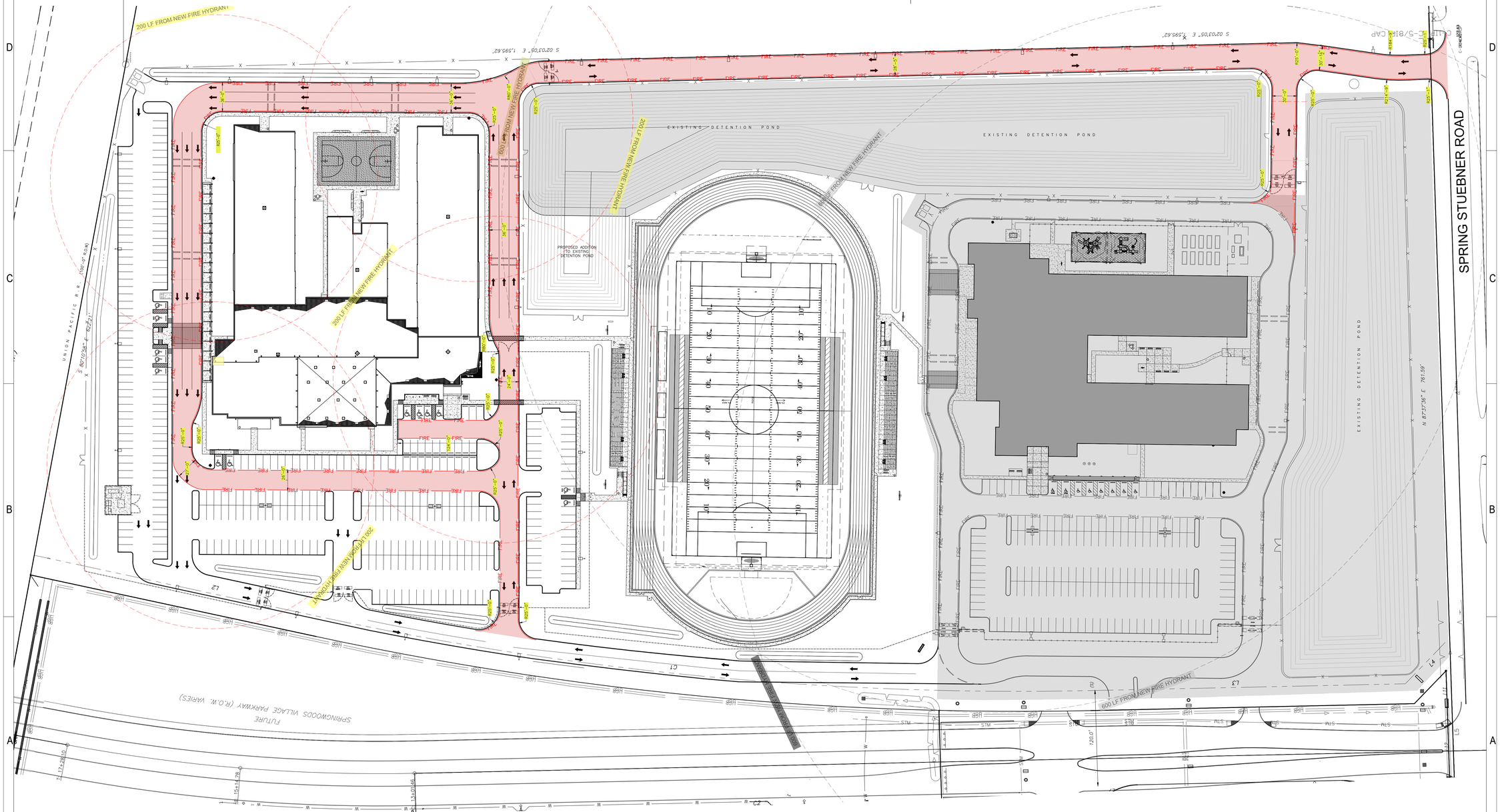
2 **FIRE LANE SIGN STANDARD**
NTS

FIRE ACCESS KEY

- LF FROM NEW FIRE HYDRANT — LINEAR FEET FROM FIRE HYDRANT PHASE 2
- FIRE FIRE FIRE FIRE — PAINTED CURBS PER FIRE LANE REQUIREMENT PHASE 2
- LF FROM NEW FIRE HYDRANT — LINEAR FEET FROM FIRE HYDRANT EXISTING FOR PHASE 1
- FIRE FIRE FIRE FIRE — PAINTED CURBS PER FIRE LANE REQUIREMENT EXISTING FOR PHASE 1
- FIRE HYDRANT REFER TO CIVIL
- REMOTE FDC REFER TO CIVIL
- FIRE ACCESS LANE
- RISER ROOM

PROPOSED NEW HARMONY PUBLIC SCHOOLS – HIGH SCHOOL / MIDDLE SCHOOL AND ATHLETIC TRACK AND FIELD

EXISTING ELEMENTARY – HARMONY PUBLIC SCHOOLS – SCIENCE ACADEMY SHADED AREA NOT IN SCOPE OF WORK



1 **OVERALL ARCHITECTURAL SITE PLAN**
1"=50'-0"

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REGISTERED ARCHITECT RAYMUND G. GIGNAC STATE OF TEXAS 6348

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
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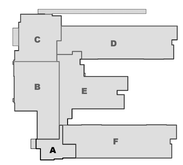
TEXAS 77379



KEYPLAN

Project Number:	24.23
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Sheet Title:
OVERALL FIRE ACCESS SITE PLAN PHASE 2

AS-109

GENERAL NOTES – FIRE LANE

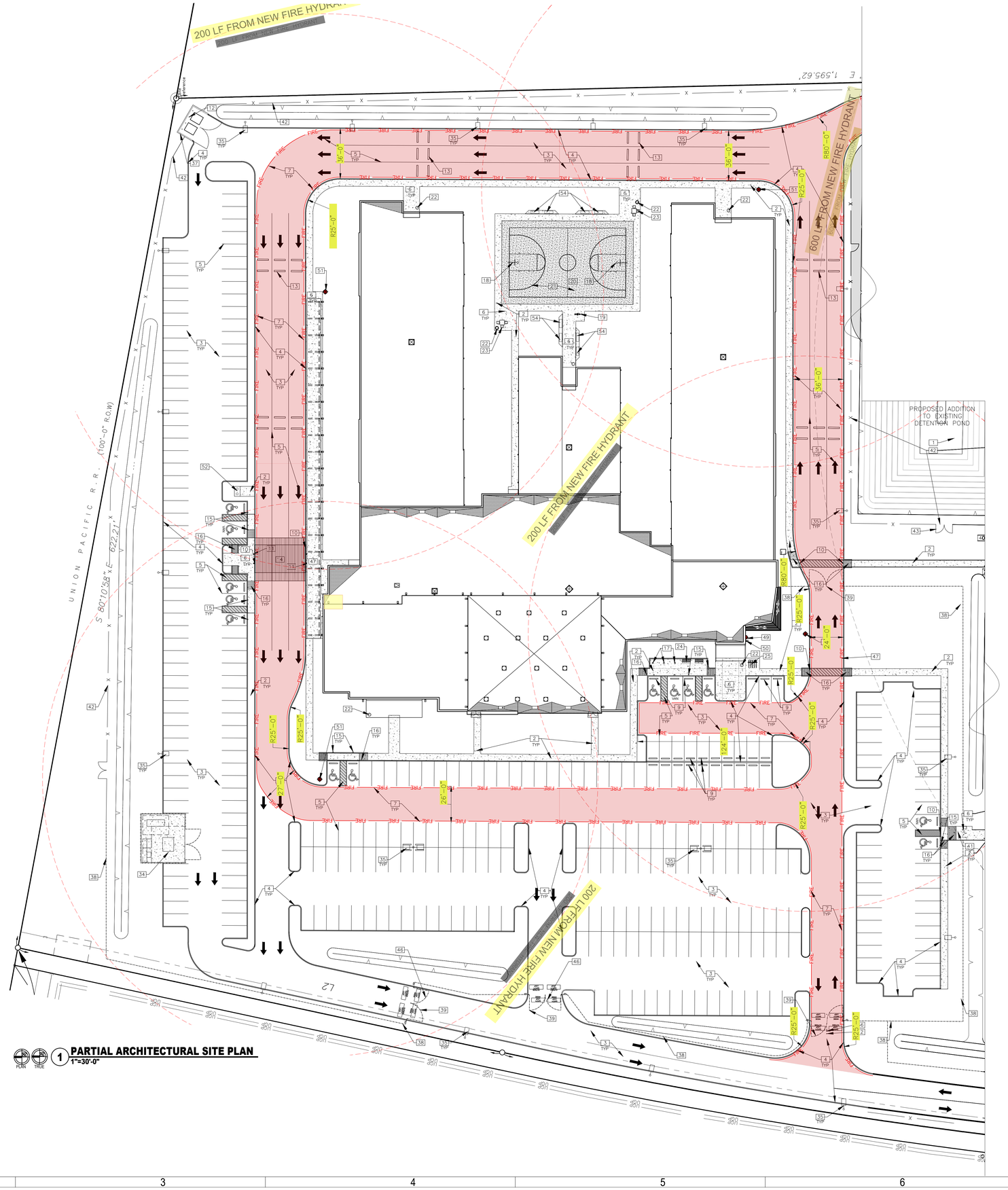
1. THE ENTIRE BUILDING IS PROTECTED WITH A WET PIPE SPRINKLER SYSTEM. REFER TO FIRE PROTECTION DRAWINGS.
2. REFER TO CIVIL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION ON FIRE PROTECTING PIPING.
3. ALL PARKING LOT STRIPING SHALL BE WHITE EXCEPT FOR THE FIRE LANE STRIPING. DESIGNATED "FIRE LANE" AND NEW FIRE LANE SIGNS SHALL FOLLOW FIRE LANE REQUIREMENT. CONTRACTOR TO COORDINATE FINAL FIRE LANE SIGNS WITH LOCAL JURISDICTION.
4. FIRE LANES/ FIRE APPARATUS ACCESS ROADS SHALL BE MARKED ON THE CURBS OR PAVEMENT WITH A RED STRIPE 4" IN HEIGHT AND STENCILED EVERY FIFTY FEET IN WHITE LETTERS AT LEAST 3" IN HEIGHT WITH THE WORDS, " FIRE LANE – NO PARKING – TOW AWAY ZONE" SO AS TO PREVENT PARKING IN THE AREA.
5. WHERE STRIPING IS NOT PRACTICAL AN APPROVED FIRE LANE SIGN SHALL BE PLACED EVERY SEVENTY – FIVE (75) FEET. REFER TO DETAIL FOR SIGN REQUIREMENT.

SITE KEYNOTES

1. EXISTING DETENTION POND / DRAINAGE PER PHASE 1
2. PROVIDE AND INSTALL CONCRETE SIDEWALK – TYPICAL, RE: CIVIL DRAWING
3. PROVIDE AND INSTALL PAVEMENT – TYPICAL, RE: CIVIL DRAWINGS
4. PROVIDE AND INSTALL CONCRETE CURB, RE: CIVIL DRAWINGS
5. INSTALL PAVEMENT STRIPING – TYPICAL, RE: CIVIL DRAWINGS
6. PROVIDE AND INSTALL CONCRETE FLATWORK – TYPICAL RE: CIVIL DRAWINGS
7. DESIGNATED "FIRE LANE" PROVIDE AND INSTALL STRIPING – NO MORE THAN 50'–0",
8. PROVIDE AND INSTALL "FIRE LANE" SIGNS TO BE INSTALLED NO LESS THAN 75'–0" APART WHERE FIRE LANE STRIPING IS NOT PRACTICAL.
9. PROVIDE AND INSTALL CONCRETE WHEEL STOP – TYPICAL – RE: CIVIL FOR DETAILS
10. PROVIDE AND INSTALL FLUSH CURBS, RE: CIVIL DRAWINGS
11. PROVIDE AND INSTALL SURFACE MOUNTED STOP BOLLARDS – REFER SPEC. SECTION 32 39 13–2
12. PROVIDE AND INSTALL STEEL PIPE BOLLARD, RE: 8/AS–104
13. PROVIDE AND INSTALL TRAFFIC SPEED BUMPS – TYPICAL (10 FT LONG, RUBBER W/ END CAPS – ASPHALT INSTALLATION)
14. PROVIDE AND INSTALL SPEED TABLE (20 FT X 36 FT)
15. PROVIDE AND INSTALL HANDICAP SIGN – TYPICAL. SEE DETAIL ON SHEET AS–101 AND RE: CIVIL FOR ADDITIONAL REQUIREMENTS
16. PROVIDE AND INSTALL HANDICAP RAMP – TYPICAL, RE: CIVIL DRAWINGS
17. PROVIDE AND INSTALL FLAG POLE (2 EA. – TYPE A – 25 FEET FOR USA FLAG AND 2 EA. – TYPE B – 20 FEET FOR OTHER FLAGS. RE: DETAIL 12/AS–104 AND SPECS.
18. PROVIDE AND INSTALL OUTDOOR BASKETBALL GOALS, FOUNDATION PER MANUFACTURER, RE: SPECS
19. PROVIDE AND INSTALL OUTDOOR PEDESTAL WATER FOUNTAIN RE: PLUMBING SPECS.
20. PROVIDE AND INSTALL OUTDOOR BASKETBALL COURT – POST–TENSIONED CONCRETE SLAB, RE: 1/AS–103
21. BASKETBALL COURT STRIPING, COORDINATE FINAL COLOR SELECTIONS WITH ARCHITECT. (4 COLORS)
22. PROVIDE AND INSTALL TRASH RECEPTACLE SEE SHEET AS–103 FOR DETAILS
23. PROVIDE AND INSTALL ADA TABLE SEE SHEET AS–103 FOR DETAILS
24. PROVIDE AND INSTALL BENCHES SEE SHEET AS–103 FOR DETAILS
25. PROVIDE AND INSTALL BIKE RACKS SEE SHEET AS–103 FOR DETAILS
26. PROVIDE AND INSTALL NCAA STANDARD NATURAL GRASS FOOTBALL (WITH GOALS, SCOREBOARD, STRIPING & PLAY CLOCKS, SCORE–TABLE) REFER TO SHEET AS–10X FOR DETAILS
27. PROVIDE AND INSTALL SCOREBOARD, RE: SPECS
28. PROVIDE AND INSTALL FIELD TIME CLOCKS – 2 NOS. , RE: SPECS
29. PROVIDE AND INSTALL TRACK AROUND FIELD TO MEET NFHS STANDARD. REFER DRAWINGS AS–10X FOR DETAILS
30. PROVIDE AND INSTALL "H" STYLE FOOTBALL SOCCER GOAL SYSTEM INCORPORATING FULL METAL FRAME FOR SOCCER GOAL DEPTH AND HEIGHT.
31. PROVIDE AND INSTALL SPORTS FIELD NETTING SAFETY SYSTEM, CONCRETE FOOTING AS PER NETTING MANUFACTURE, RE: SPECS
32. PROVIDE & INSTALL OUTDOOR ALUMINUM BLEACHERS, ANCHORED TO CONCRETE PAD – CONCRETE PAD DESIGN PER BLEACHER MANUFACTURER, COORDINATE WITH NATURAL GRASS FIELD
33. PROVIDE AND INSTALL SPORTS LIGHTING, RE: MEP DRAWINGS
34. PROVIDE AND INSTALL PAD MOUNTED TRANSFORMER & GENERATOR (FENCED IN ELECTRIC YARD) RE: MEP & STRUCTURAL PLANS. REFER SHEET AS–105 FOR DETAILS
35. PROVIDE AND INSTALL SITE LIGHTING – TYPICAL, RE: MEP DRAWINGS
36. PROVIDE AND INSTALL PEDESTAL FOR ACCESS EQUIPMENT / KNOX BOX AT ENTRY GATES. COORDINATE WITH MEP/ LOW VOLTAGE. PROVIDE AND INSTALL RELEASE BUTTON CONTROL IN FRONT OFFICE AREA FOR ALL ENTRY GATES.
37. PROVIDE AND INSTALL DUMPSTER ENCLOSURE, RE: 1/AS–104
38. PROVIDE AND INSTALL 6'–0" DECORATIVE STEEL FENCE (BLACK) – REFERENCE SHEET AS–107 FENCING PLAN
39. PROVIDE AND INSTALL VEHICULAR DECORATIVE STEEL (BLACK) AUTOMATIC SWING GATE, PROVIDE SOS DEVICE, OVERRIDE SWITCH & KNOX BOX KEYPAD (FINAL LOCATION TBD AND COORDINATED WITH FIRE MARSHAL). RE: SPECS
40. PROVIDE AND INSTALL CONTROLS FOR SPORTS LIGHTING, REFER TO MEP DRAWINGS.
41. PROVIDE AND INSTALL DECORATIVE STEEL (BLACK) SWING PEDESTRIAN GATES. REFER SHEET AS–103 & AS–106 FOR DETAILS
42. PROVIDE AND INSTALL 6'–0" CHAIN LINK FENCE WITH BLUE VINYL SLATS– REFERENCE SHEET AS–106 FENCING PLAN
43. PROVIDE AND INSTALL PEDESTRIAN SWING GATES AT CHAIN LINK FENCE. REFER SHEET AS–103 FOR DETAILS.
44. PROVIDE AND INSTALL 4'–0" HIGH BLACK VINYL FENCE AROUND TRACK AND FIELD. REFER SHEET AS–106 FENCING PLAN FOR DETAILS
45. PROVIDE AND INSTALL ACCESS 4'–0" GATES AT BLACK VINYL FENCE, REFER SHEET AS–106 , FENCING PLAN FOR DETAILS
46. NOT APPLICABLE
47. PROVIDE AND INSTALL PRE – ENGINEERED DROP OF CANOPY
48. PROVIDE AND INSTALL MARQUEE PER SHEET A–103
49. PROVIDE AND INSTALL REMOTE "FDC" LOCATIONS
50. PROVIDE AND INSTALL FDC SIGNAGE 4" TO 8" TALL, COORDINATE WITH LOCAL FIRE MARSHAL
51. PROVIDE AND INSTALL NEW FIRE HYDRANT, RE: CIVIL SPECS AND DRAWINGS FOR DETAILS
52. PROVIDE AND INSTALL GREASE TRAP REFER TO MEP DRAWINGS FOR DETAILS
53. PROVIDE AND INSTALL CONCRETE BENCHES (BELSON OUTDOORS – OUR TOWN SERIES CONCRETE BACKLESS BENCH MODEL NO. WS900 – 72"L X 24"W X 18"H)

FIRE ACCESS KEY

LF FROM NEW FIRE HYDRANT	LINEAR FEET FROM FIRE HYDRANT PHASE 2
FIRE FIRE FIRE FIRE	PAINTED CURBS PER FIRE LANE REQUIREMENT PHASE 2
LF FROM NEW FIRE HYDRANT	LINEAR FEET FROM FIRE HYDRANT EXISTING FOR PHASE 1
FIRE FIRE FIRE FIRE	PAINTED CURBS PER FIRE LANE REQUIREMENT EXISTING FOR PHASE 1
	FIRE HYDRANT REFER TO CIVIL
	REMOTE FDC REFER TO CIVIL
	FIRE ACCESS LANE
	RISER ROOM



PLAN TREE 1 **PARTIAL ARCHITECTURAL SITE PLAN**
1"=30'–0"

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REGISTERED ARCHITECT RAYMOND G. GIGNAC 6336 STATE OF TEXAS

EXPIRATION DATE 11/30/2026 SIGNED ON 6/29/2026

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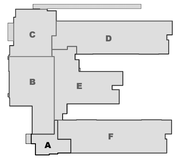
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

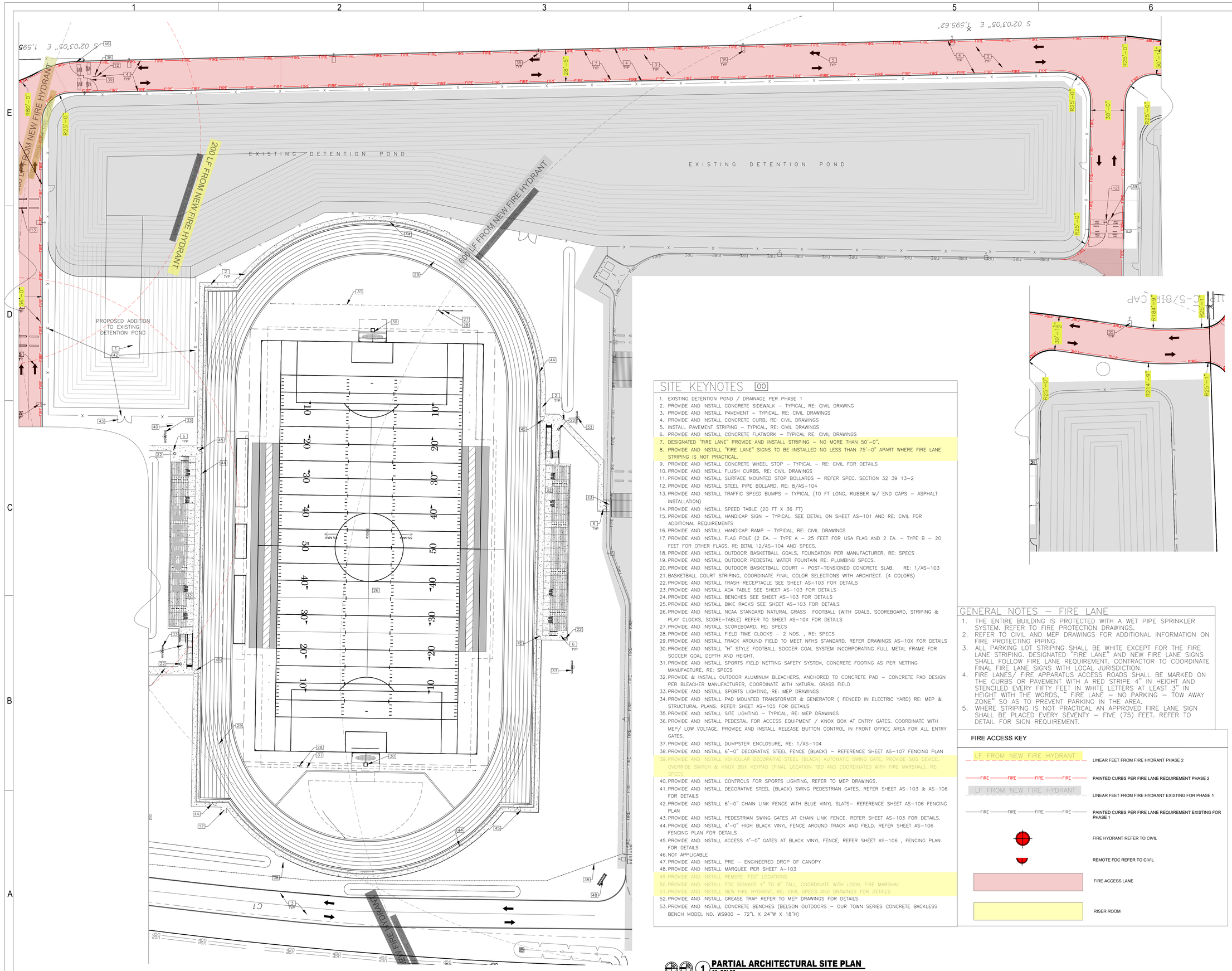
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL FIRE ACCESS SITE PLAN BUILDING AND PARKING AREA

AS-109A



SITE KEYNOTES 00

1. EXISTING DETENTION POND / DRAINAGE PER PHASE 1
2. PROVIDE AND INSTALL CONCRETE SIDEWALK – TYPICAL, RE: CIVIL DRAWING
3. PROVIDE AND INSTALL PAVEMENT – TYPICAL, RE: CIVIL DRAWINGS
4. PROVIDE AND INSTALL CONCRETE CURB, RE: CIVIL DRAWINGS
5. INSTALL PAVEMENT STRIPING – TYPICAL, RE: CIVIL DRAWINGS
6. PROVIDE AND INSTALL CONCRETE FLATWORK – TYPICAL RE: CIVIL DRAWINGS
7. DESIGNATED "FIRE LANE" PROVIDE AND INSTALL STRIPING – NO MORE THAN 50'–0",
8. PROVIDE AND INSTALL "FIRE LANE" SIGNS TO BE INSTALLED NO LESS THAN 75'–0" APART WHERE FIRE LANE STRIPING IS NOT PRACTICAL.
9. PROVIDE AND INSTALL CONCRETE WHEEL STOP – TYPICAL – RE: CIVIL FOR DETAILS
10. PROVIDE AND INSTALL FLUSH CURBS, RE: CIVIL DRAWINGS
11. PROVIDE AND INSTALL SURFACE MOUNTED STOP BOLLARDS – REFER SPEC. SECTION 32 39 13–2
12. PROVIDE AND INSTALL STEEL PIPE BOLLARD, RE: 8/AS–104
13. PROVIDE AND INSTALL TRAFFIC SPEED BUMPS – TYPICAL (10 FT LONG, RUBBER W/ END CAPS – ASPHALT INSTALLATION)
14. PROVIDE AND INSTALL SPEED TABLE (20 FT X 36 FT)
15. PROVIDE AND INSTALL HANDICAP SIGN – TYPICAL. SEE DETAIL ON SHEET AS–101 AND RE: CIVIL FOR ADDITIONAL REQUIREMENTS
16. PROVIDE AND INSTALL HANDICAP RAMP – TYPICAL, RE: CIVIL DRAWINGS
17. PROVIDE AND INSTALL FLAG POLE (2 EA. – TYPE A – 25 FEET FOR USA FLAG AND 2 EA. – TYPE B – 20 FEET FOR OTHER FLAGS. RE: DETAIL 12/AS–104 AND SPECS.
18. PROVIDE AND INSTALL OUTDOOR BASKETBALL GOALS, FOUNDATION PER MANUFACTURER, RE: SPECS
19. PROVIDE AND INSTALL OUTDOOR PEDESTAL WATER FOUNTAIN RE: PLUMBING SPECS.
20. PROVIDE AND INSTALL OUTDOOR BASKETBALL COURT – POST–TENSIONED CONCRETE SLAB, RE: 1/AS–103
21. BASKETBALL COURT STRIPING, COORDINATE FINAL COLOR SELECTIONS WITH ARCHITECT. (4 COLORS)
22. PROVIDE AND INSTALL TRASH RECEPTACLE SEE SHEET AS–103 FOR DETAILS
23. PROVIDE AND INSTALL ADA TABLE SEE SHEET AS–103 FOR DETAILS
24. PROVIDE AND INSTALL BENCHES SEE SHEET AS–103 FOR DETAILS
25. PROVIDE AND INSTALL BIKE RACKS SEE SHEET AS–103 FOR DETAILS
26. PROVIDE AND INSTALL NCAA STANDARD NATURAL GRASS FOOTBALL (WITH GOALS, SCOREBOARD, STRIPING & PLAY CLOCKS, SCORE–TABLE) REFER TO SHEET AS–10X FOR DETAILS
27. PROVIDE AND INSTALL SCOREBOARD, RE: SPECS
28. PROVIDE AND INSTALL FIELD TIME CLOCKS – 2 NOS. , RE: SPECS
29. PROVIDE AND INSTALL TRACK AROUND FIELD TO MEET NFHS STANDARD. REFER DRAWINGS AS–10X FOR DETAILS
30. PROVIDE AND INSTALL "H" STYLE FOOTBALL SOCCER GOAL SYSTEM INCORPORATING FULL METAL FRAME FOR SOCCER GOAL DEPTH AND HEIGHT.
31. PROVIDE AND INSTALL SPORTS FIELD NETTING SAFETY SYSTEM, CONCRETE FOOTING AS PER NETTING MANUFACTURE, RE: SPECS
32. PROVIDE & INSTALL OUTDOOR ALUMINUM BLEACHERS, ANCHORED TO CONCRETE PAD – CONCRETE PAD DESIGN PER BLEACHER MANUFACTURER, COORDINATE WITH NATURAL GRASS FIELD
33. PROVIDE AND INSTALL SPORTS LIGHTING, RE: MEP DRAWINGS
34. PROVIDE AND INSTALL PAD MOUNTED TRANSFORMER & GENERATOR (FENCED IN ELECTRIC YARD) RE: MEP & STRUCTURAL PLANS. REFER SHEET AS–105 FOR DETAILS
35. PROVIDE AND INSTALL SITE LIGHTING – TYPICAL, RE: MEP DRAWINGS
36. PROVIDE AND INSTALL PEDESTAL FOR ACCESS EQUIPMENT / KNOX BOX AT ENTRY GATES. COORDINATE WITH MEP/ LOW VOLTAGE. PROVIDE AND INSTALL RELEASE BUTTON CONTROL IN FRONT OFFICE AREA FOR ALL ENTRY GATES.
37. PROVIDE AND INSTALL DUMPSTER ENCLOSURE, RE: 1/AS–104
38. PROVIDE AND INSTALL 6'–0" DECORATIVE STEEL FENCE (BLACK) – REFERENCE SHEET AS–107 FENCING PLAN
39. PROVIDE AND INSTALL VEHICULAR DECORATIVE STEEL (BLACK) AUTOMATIC SWING GATE, PROVIDE SOS DEVICE, OVERRIDE SWITCH & KNOX BOX KEYPAD (FINAL LOCATION TBD AND COORDINATED WITH FIRE MARSHAL). RE: SPECS
40. PROVIDE AND INSTALL CONTROLS FOR SPORTS LIGHTING, REFER TO MEP DRAWINGS.
41. PROVIDE AND INSTALL DECORATIVE STEEL (BLACK) SWING PEDESTRIAN GATES. REFER SHEET AS–103 & AS–106 FOR DETAILS
42. PROVIDE AND INSTALL 6'–0" CHAIN LINK FENCE WITH BLUE VINYL SLATS– REFERENCE SHEET AS–106 FENCING PLAN
43. PROVIDE AND INSTALL PEDESTRIAN SWING GATES AT CHAIN LINK FENCE. REFER SHEET AS–103 FOR DETAILS.
44. PROVIDE AND INSTALL 4'–0" HIGH BLACK VINYL FENCE AROUND TRACK AND FIELD. REFER SHEET AS–106 FENCING PLAN FOR DETAILS
45. PROVIDE AND INSTALL ACCESS 4'–0" GATES AT BLACK VINYL FENCE, REFER SHEET AS–106 , FENCING PLAN FOR DETAILS
46. NOT APPLICABLE
47. PROVIDE AND INSTALL PRE – ENGINEERED DROP OF CANOPY
48. PROVIDE AND INSTALL MARQUEE PER SHEET A–103
49. PROVIDE AND INSTALL REMOTE FDC' LOCATIONS
50. PROVIDE AND INSTALL FDC SIGNAGE 4" TO 8" TALL, COORDINATE WITH LOCAL FIRE MARSHAL
51. PROVIDE AND INSTALL NEW FIRE HYDRANT, RE: CIVIL SPECS AND DRAWINGS FOR DETAILS
52. PROVIDE AND INSTALL GREASE TRAP REFER TO MEP DRAWINGS FOR DETAILS
53. PROVIDE AND INSTALL CONCRETE BENCHES (BELSON OUTDOORS – OUR TOWN SERIES CONCRETE BACKLESS BENCH MODEL NO. WS900 – 72"L X 24"W X 18"H)

GENERAL NOTES – FIRE LANE

1. THE ENTIRE BUILDING IS PROTECTED WITH A WET PIPE SPRINKLER SYSTEM. REFER TO FIRE PROTECTION DRAWINGS.
2. REFER TO CIVIL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION ON FIRE PROTECTING PIPING.
3. ALL PARKING LOT STRIPING SHALL BE WHITE EXCEPT FOR THE FIRE LANE STRIPING. DESIGNATED "FIRE LANE" AND NEW FIRE LANE SIGNS SHALL FOLLOW FIRE LANE REQUIREMENT. CONTRACTOR TO COORDINATE FINAL FIRE LANE SIGNS WITH LOCAL JURISDICTION.
4. FIRE LANES/ FIRE APPARATUS ACCESS ROADS SHALL BE MARKED ON THE CURBS OR PAVEMENT WITH A RED STRIPE 4" IN HEIGHT AND STENCILED EVERY FIFTY FEET IN WHITE LETTERS AT LEAST 3" IN HEIGHT WITH THE WORDS, " FIRE LANE – NO PARKING – TOW AWAY ZONE" SO AS TO PREVENT PARKING IN THE AREA.
5. WHERE STRIPING IS NOT PRACTICAL AN APPROVED FIRE LANE SIGN SHALL BE PLACED EVERY SEVENTY – FIVE (75) FEET. REFER TO DETAIL FOR SIGN REQUIREMENT.

FIRE ACCESS KEY

LF FROM NEW FIRE HYDRANT	LINEAR FEET FROM FIRE HYDRANT PHASE 2
FIRE FIRE FIRE FIRE	PAINTED CURBS PER FIRE LANE REQUIREMENT PHASE 2
LF FROM NEW FIRE HYDRANT	LINEAR FEET FROM FIRE HYDRANT EXISTING FOR PHASE 1
FIRE FIRE FIRE FIRE	PAINTED CURBS PER FIRE LANE REQUIREMENT EXISTING FOR PHASE 1
	FIRE HYDRANT REFER TO CIVIL
	REMOTE FDC REFER TO CIVIL
	FIRE ACCESS LANE
	RISER ROOM

1 PARTIAL ARCHITECTURAL SITE PLAN
1"=30'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel · 210-546-0200

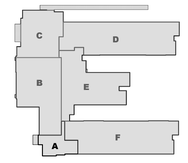
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
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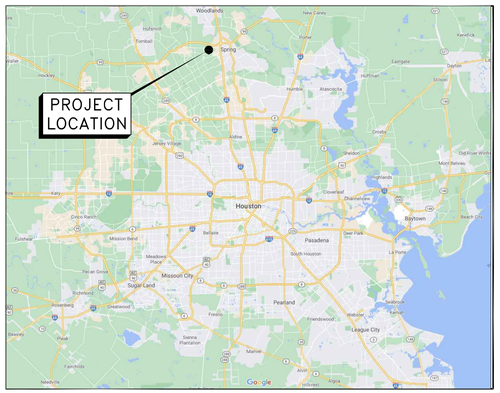
Revisions:

No.	Description	Date

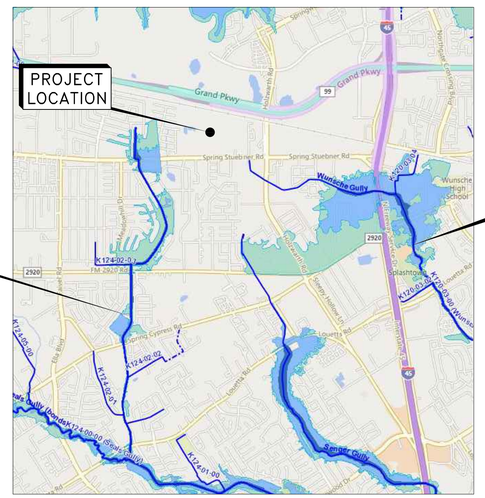
Sheet Title:
PARTIAL FIRE ACCESS SITE PLAN TRACK & FIELD AREA

AS-109B

CONSTRUCTION PLANS FOR WATERLINE IMPROVEMENTS TO SERVE HARMONY PUBLIC SCHOOLS ON 2600 SPRING STUEBNER RD, SPRING, TEXAS 77389



LOCATION MAP



VICINITY MAP
KEY MAP NO: 292J
ZIP CODE: 77389
HARRIS COUNTY, TEXAS

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	SURVEY
4	OVERALL SITE PLAN
5	WATERLINE PLAN & PROFILE
6	CONSTRUCTION DETAILS (1 OF 2)
7	CONSTRUCTION DETAILS (2 OF 2)

SITE INFORMATION

HCAD ACCOUNT NO.: 1440310010001
LEGAL DESCRIPTION: RES A BLK 1
SPRINGWOODS VILLAGE DISTICT SEC 6
ADDRESS: 0 SPRING STUEBNER RD
SPRING TX 77389

OWNER: HARMONY PUBLIC SCHOOLS
ADDRESS:9321 W SAM HOUSTON PKWY S
HOUSTON, TX 77099
PHONE: (713) 343-3333

PERSON PREPARING PLAN: JACKSON NORFOLK
COMPANY: COBBFENDLEY
ADDRESS: 4424 W SAM HOUSTON PARKWAY N, SUITE 600
HOUSTON, TX 77041

ENGINEER: MICHAEL MAZZOLA, P.E.
COMPANY: COBBFENDLEY
ADDRESS: 4424 W SAM HOUSTON PARKWAY N, SUITE 600
HOUSTON, TX 77041
PHONE: (713) 485-8126

NOTES:

1. NO WATER / WASTEWATER PROPOSED IN THIS PLAN SET.
2. A NOTIFICATION ISSUED BY HC INFRASTRUCTURE DEPARTMENT – PERMITS OFFICE – IS REQUIRED FOR PROPOSED WORK WITHIN HARRIS COUNTY RIGHT–OF–WAY. THE PROJECT MUST BE APPROVED PRIOR TO OBTAIN THE REQUIRED NOTIFICATION. A NOTIFICATION MUST BE OBTAINED SEPARATELY FROM SITE DEVELOPMENT PERMIT PACKAGE. FOR ADDITIONAL INFORMATION PLEASE VISIT: HTTP://HCPID.ORG/PERMITS/PR_NOTIFICATION_OF_CONSTRUCTION.HTML OR CONTACT PUBLIC REVIEW INSPECTIONS DEPARTMENT @ (713) 274–3931
3. SIGNED/SEALED AS–BUILT DRAWINGS FOR ALL WORK IN THE HARRIS COUNTY ROAD RIGHT–OF–WAY MUST BE SUBMITTED TO HARRIS COUNTY PER CURRENT REGULATION, PRIOR TO REQUESTING INSPECTION AND POWER RELEASE SUBMIT THE DRAWINGS TO: ROWASBUILT@HARRISCOUNTYTX.GOV.
4. HARRIS COUNTY MAY HAVE EXISTING UNDERGROUND/OVERHEAD UTILITIES WITHIN THE PROPOSED PROJECT LIMITS. PLEASE CONTACT THE CALL CENTER AT (713) 881–3210, OR SUBMIT A WORK ORDER REQUEST THROUGH HTTP: WWW.ENG.HCTX.NET/SIGNALOUT TO OBTAIN FIELD LOCATES.
5. 48 HOUR NOTICE – CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES. CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ (713) 274–3931 OR (PUBLIC.REVIEW@HCPID.ORG)

ONE–CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
811
(713)223–4567 (Houston Number)

FIRM FLOOD INSURANCE RATE MAP
PANEL 0285G (715 OF 1150)
MAP #48201C0255L
MAP REVISED: JUNE 18, 2007
UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

THIS PROJECT INCLUDES WORK TO BE PERFORMED IN THE CITY OF HOUSTON'S RIGHT-OF-WAY AND EASEMENTS. DRAWINGS MUST BE APPROVED AND PERMITTED PRIOR TO BEGINNING CONSTRUCTION.

CONTACT REQUIRED SECTIONS BELOW AS INDICATED

PERMITS 1002 WASHINGTON AVE (2ND FLOOR)
PAVING 832-398-8819 OCE.STORMPAVING@HOUSTONTX.GOV
STORM 832-394-8819 OCE.STORMPAVING@HOUSTONTX.GOV
ALLEY 832-394-8851
STREET CUT/ EXCAVATION 832-394-9101 STREETCUTOPS@HOUSTONTX.GOV

ILMS #: 25096999

CobbFendley
Texas Registration No. 274
4424 W Sam Houston Parkway N, Suite 600
Houston, Texas 77041
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
5/18/2026

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

Samin Faizy 5/26/2026
WATER
Samin Faizy 5/26/2026
WASTE WATER
STORM WATER
STORM WATER QUALITY
FACILITIES
TRAFFIC & TRANSPORTATION/ STREET & BRIDGE
CITY ENGINEER DATE
DIRECTOR OF HOUSTON PUBLIC WORKS DATE

SHEET NO 1 OF 7 SHEETS

FOR CITY OF HOUSTON USE ONLY

HOUSTON PUBLIC WORKS
ACCEPTED AND FILED
82371
CITY DRAWING NUMBER
Approval Date 05/28/26
HOUSTON TX

Cbs Info: D:\Projects\2024\160947_Signals\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\TASK 31 - WATERLINE P&P\DWG\241004731_CS.dwg Saved: 5/18/2026 10:13:25 AM saif

GENERAL NOTES

1. CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING IN ACCORDANCE WITH THE LATEST EDITION OF THE PUBLICATIONS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING, AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING PUBLISHED BY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.

2. THE GEOTECHNICAL INVESTIGATION FOR THIS PROJECT WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 11 OF THE LATEST EDITION OF THE PUBLICATION INFRASTRUCTURE DESIGN MANUAL, PUBLISHED BY THE CITY OF HOUSTON, DEPARTMENT OF THE PUBLIC WORKS AND ENGINEERING. SOILS REPORT.

3. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY ALL GOVERNING AGENCIES HAVING JURISDICTION OVER PROPOSED CONSTRUCTION OF PAVING, WITHIN RIGHTS OF WAY PRIOR TO START UP CONSTRUCTION.

4. CONTRACTOR SHALL COMPLY WITH THE REGULATIONS OF CITY OF HOUSTON AND HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT.

5. ALL EXCAVATION, FILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS CONTAINED WITHIN THESE PLANS AND APPROPRIATE CITY OF HOUSTON SPECIFICATIONS (SEE NOTE 1).

6. THE WORK AREA SHALL BE SECURED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY WHEN IN AN AREA ACCESSIBLE TO THE PUBLIC.

7. ADEQUATE DRAINAGE OF THE SITE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES" AS DATED SEPT. 1992 AND BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ALL DRAINAGE SYSTEMS ON OR ADJACENT TO THE PROJECT SITE AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

8. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION WORK, THE CONTRACTOR SHALL RESTORE EXISTING FACILITIES (I.E., PROPERTY) TO EQUAL OR BETTER THAN EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

9. ALL DISTURBED AREAS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE BLOCK SODDED AND MAINTAINED UNTIL TURF IS ESTABLISHED AND ACCEPTED BY THE GOVERNING AGENCY.

10. WARNING: OVERHEAD LINES MAY EXIST ON OR ADJACENT TO THE PROPERTY. THE DRAWINGS MAY NOT SHOW THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT THE CONTRACTOR SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF AND/OR MOVED, CALL CENTERPOINT ENERGY ELECTRIC AT 713-207-2222 FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT THE CONTRACTOR'S EXPENSE. ANY AND ALL EXPENSES ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.

11. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN SIX (6) FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATIONS, TITLE 29, PART 1910.180(i) AND PART 1926.550 (a)(15) REQUIRE A MINIMUM CLEARANCE OF TEN (10) FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THE LAWS. IF THE PROJECT REQUIRES WORKERS TO WORK NEAR OVERHEAD POWER LINES, CALL 713-207-2222 FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT THE CONTRACTOR'S EXPENSE. ANY AND ALL EXPENSES ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.

12. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, ETC., WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED BY THE CONTRACTOR, AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT. ANY AND ALL EXPENSES ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.

13. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS. THE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. IF ANY OF THE TEST RESULTS DO NOT MEET THE SPECIFICATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE SUCH MATERIAL SO THAT THE SPECIFICATIONS CAN BE MET. ADDITIONAL TESTING TO PROVE COMPLIANCE WITH THE SPECIFICATIONS ALSO SHALL BE AT THE CONTRACTOR'S EXPENSE.

14. ALL UTILITIES REPRESENTED ON THESE DRAWINGS ARE SHOWN AT THE APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. SOME OF THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN FIELD VERIFIED. THEY HAVE BEEN PLOTTED FROM INFORMATION OBTAINED FROM THE CITY OF HOUSTON AND/OR PRIVATE UTILITY COMPANIES. THE CONTRACTOR SHALL FIELD DETERMINE THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND MAINTAIN THESE UNDERGROUND UTILITIES.

15.UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/811 OR 800-344-8377 AND LONE STAR NOTIFICATION CENTER AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION. UTILITIES MARKED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS SHALL COMPLY WITH TAC TITLE 16, PART 1, CHAPTER 18, RULE §18.6 AND THE AMERICAN PUBLIC WORKS ADMINISTRATION (APWA) UNIFORM COLOR CODE.

16. THE CONTRACTOR SHALL NOTIFY LONESTAR NOTIFICATION CENTER AT 713-223-4567 AND TEXAS ONE-CALL SYSTEM AT 1-800-245-4545 A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY LINES. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL POINTS OF CROSSING WITH PROPOSED UNDERGROUND LINES TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT. THE CONTRACTOR SHALL NOT MAKE ANY FIELD MODIFICATIONS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER, COBB, FENDLEY & ASSOCIATES, INC. PHONE NO. 713-462-3242, FAX NO. 713-462-3262. THIS APPROVAL MUST BE OBTAINED PRIOR TO RESUMING ANY CONSTRUCTION IN THE AFFECTED AREA.

17. THE CONTRACTOR SHALL COMPLY WITH CURRENT OSHA REGULATIONS, STATE OF TEXAS LAW AND CURRENT CITY OF HOUSTON ORDINANCES AND THE APPROPRIATE SECTIONS OF THE SPECIFICATIONS CONCERNING EXCAVATION AND SHORING.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING, REFERENCED ABOVE, AT NO ADDITIONAL COST.

19. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING @ 832-394-9098 OR VIA FAX AT 832-395-4424 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

20. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.

21. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS AND RECORD AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE ORIGINAL TRACINGS, LABEL EACH SHEET IN THE SET AS "RECORD DRAWINGS", AND RETURN IT TO THE OFFICE OF THE CITY ENGINEER.

22. STORM SEWER SHALL BE RCP (REINFORCED CONCRETE PIPE) MEETING A.S.T.M., C-76, CLASS III. BEDDING, BACKFILLING, INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT CITY OF HOUSTON SPECIFICATIONS FOR SEWER CONSTRUCTION, INCLUDING ALL AMENDMENTS AND REVISIONS, THERETO.

WATER NOTES

1) WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL, STANDARD SPECIFICATION, AND CONSTRUCTION DETAILS.
2) ALL 4" THROUGH 12" WATER LINE TO BE AWWA C-900 PVC DR-18 BLUE PRESSURE RATED WATER MAIN WITH 2" AND SMALLER WATER SERVICE LINE TO BE CONTINUOUS TYPE K COPPER TUBING PER CON STANDARD SPECIFICATION SECTION 02503. ALL 4" THRU 54" DI PIPE WATER LINES SHALL BE AWWA C151 WITH INSIDE LINING WITH AWWA C104 AND DOUBLE WRAPPED WITH 8-MIL POLYETHYLENE SHEETS.
3) CONCRETE THRUST BLOCKS SHALL BE PROVIDED AS NECESSARY TO PREVENT PIPE MOVEMENT. USE RESTRAINED JOINTS WHERE PREVENTING MOVEMENT OF 16" OR GREATER PIPE IS NECESSARY DUE TO THRUST.
4) ALL WATER LINES UNDER PROPOSED OR FUTURE PAVING AND TO A POINT OF ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE ENCASED IN BANK SAND TO 12" OVER PIPE AND BACKFILLED WITH CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.
5) ALL WATER LINE AND SEWER LINE CROSSINGS SHALL BE CONSTRUCTED PER CITY OF HOUSTON AND TCEQ REGULATIONS.
6) ALL WATER VALVES SHALL BE SUPPLIED AND INS TALLED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C-500 AND SHALL BE OF THE RESILIENT SEAT TYPE.
7) ALL WATER LINES TO BE DISINFECTED IN CONFORMANCE WITH AWWA C-651 AND THE TEXAS STATE DEPARTMENT OF HEALTH. AT LEAST ONE BACTERIOLOGICAL SAMPLE SHALL BE COLLECTED FOR EVERY 1,000 LINEAR FEET OF WATER LINE AND SHALL BE REPEATED IF CONTINUATION PERSISTS.
8) ALL BELOW GRADE VALVES SHALL BE GASKETED, HUB-END GATE VALVES WITH A CAST IRON BOX, EXCEPT WHERE FLANGES ARE CALLED OUT ON THE PLANS.
9) 4" THRU 12" FIT TINGS SHALL BE CEMENT MORTAR LINED COMPACT DUCTILE IRON PRESSURE FITTINGS PER ANSI A21.53, OR PUSH ON FITTINGS PER ANSI A21.10 PRESSURE RATED AT 250 PSIG.
10) HYDROSTATIC TESTING: ALL WATER PIPE SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE LATEST CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS. TESTS ARE TO BE PERFORMED ON THE ENTIRE FOOTAGE OF WATER PIPE LINE INCLUDED IN THE PROJECT.
11) ALL WATER LINES TO HAVE 4' MINIMUM COVER TO FINISHED GRADE AND MINIMUM 12" CLEARANCE TO OTHER UTILITIES AT CROSSING UNLESS OTHERWISE NOTED ON PLANS. ALL WATER LINE INSTALLED OVER 8' DEEP SHALL UTILIZE RESTRAINED JOINT FITTINGS.
12) CONTRACTOR SHALL KEEP WATER PIPE CLEAN AND CAPPED (OR OTHERWISE EFFECTIVELY COVERED) OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.

GRADING NOTES

1) GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2) BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY BENCHMARK ELEVATION AND NOTIFY ENGINEER IF ANY DISCREPANCY AND/OR CONFLICT IS FOUND.
3) CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS, AND SHALL NOTIFY ENGINEER IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
4) CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION,
5) ALL EXISTING CONCRETE PAVING, SIDEWALK, AND CURB DEMOLITION SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR. DISPOSAL SHALL BE AT AN APPROVED OFF-SITE, LAWFUL LOCATION, UNLESS DIRECTED OTHERWISE BY THE OWNER.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND / OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.

4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- DISTURBED AREA OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND / OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

STREET, BRIDGE NOTES

1. DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING" UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN IS CONSISTENT WITH THE MINIMUM STANDARDS ESTABLISHED IN THE "INFRASTRUCTURE DESIGN MANUAL" REFERENCED AT http://documents.publicworks.houstontx.gov/document-center/engineering-and-construction/index.htm.

2. FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.

3. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURB INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.

4. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.

5. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDENDA AND AMENDMENTS THERETO.

6. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY. UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.

7. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO SATISFACTION OF THE OWNING AUTHORITY.

8. EXPOSED 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT, IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BARS. 24" LONG. 24" C-C. DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL.

9. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG AREAS OF EXCAVATION.

10. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED IN CITY OF HOUSTON ORDINANCE #87-1457.

11. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

12. WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN SHOULD BE CONSISTENT WITH THE MINIMUM STANDARD ESTABLISHED IN THE "DESIGN MANUAL FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORMS DRAINAGE AND STREET PAVING".

13. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM SEWER AND TRAFFIC SIGNAL CONDUITS, ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPT. OF PUBLIC WORKS AND ENGINEERING "STANDARD CONSTRUCTION SPECIFICATIONS" WITH LATEST ADDENDA AND AMENDMENTS THERETO, AT NO COST TO THE CITY OF HOUSTON.

14. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AT 832-394-9578 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF NECESSARY PERMITS/WORK ORDERS FOR STREET CONSTRUCTION.

15. DOUBLE REFLECTORIZED BLUE TRAFFIC MARKERS SHALL BE PLACED 6-INCHES OFFSET OF THE CENTERLINE OF ALL FIRE HYDRANT LOCATIONS BY THE PAVING CONTRACTOR. HYDRANTS LOCATED AT INTERSECTIONS SHALL HAVE A BUTTON PLACED ON EACH STREET.

TRAFFIC NOTES:
(USE ONLY FOR PROJECTS INSIDE HOUSTON CITY LIMITS)

CONTRACTOR OR OWNER SHALL SUBMIT TRAFFIC CONTROL PLANS WITH THE MOBILITY PERMIT APPLICATION. THE PLANS SHALL BE DRAWN TO SCALE AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

THE GENERAL NOTES THAT SHALL BE INCLUDED ON THE TRAFFIC CONTROL PLAN CAN BE FOUND IN CHAPTER 15 (15.12 TRAFFIC CONTROL PLAN) OF THE CITY OF HOUSTON'S (CITY) INFRASTRUCTURE DESIGN MANUAL (IDM). BELOW ARE SEVERAL KEY NOTES FROM THE IDM TO BE AWARE OF:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) LATEST EDITION WITH REVISIONS DURING THE ENTIRE CONSTRUCTION PERIOD.

2. NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.

3. CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY AND/OR DETOUR PLANS. CONTRACTOR SHALL MAINTAIN ADA COMPLAINT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO THE BUS STOP.

4. CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS FOR MINOR UTILITY WORK WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, OPEN LANES FOR NORMAL TRAFFIC FLOW WHEN FEASIBLE.

5. CONTRACTOR SHALL SECURE LANE/SIDEWALK/BICYCLE FACILITY CLOSURE PERMITS FROM TRANSPORTATION & DRAINAGE OPERATIONS (MOBILITY PERMIT SECTION AT WWW.GIMS.HOUSTONTX.GOV) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE APPLICATION MUST BE SUBMITTED AT LEAST TEN BUSINESS DAYS PRIOR TO THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN AND/OR BEGINNING CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS, CONSTRUCTION SEQUENCING, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.

6. CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES

7. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS MUCH AS POSSIBLE. ADDITIONAL CONES AND/OR DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAY, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE CITY OF HOUSTON.

8. ADDITIONAL OFF DUTY POLICE OFFICERS/FLAGGERS MAY BE REQUESTED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED AT THE DIRECTION OF THE CITY EVEN IF THEY ARE NOT SPECIFICALLY IDENTIFIED ON THE PROJECT PLANS.

STORM SEWER LINE

1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACK FILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 2317-02, 02317-3, 02317-05, 02317-06, AND 02317-07 (JULY 2019) AS APPLICABLE UNLESS OTHERWISW SHOWN ON THE DRAWINGS.

2. ALL STORM SEWER CONSTRUCTED IN SIDELOT EASMENT SHALL BE R.C.P (C-76, CLASSIII) AND SHALL BE EMBEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.

3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y. STABLIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.

4. ALL TRENCH BACKFILL SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS IN EACH LIFT, AND MECHNICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMACTION TEST (ASTM D-698/AASHTO T99),

5. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINT CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.

6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-76, CLASSIII).

7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.

8. MINIMUM HORIZONTAL CLEARANCE BETWEEN ANY STORM PIPE AND BOX SHALL BE AT LEAST 48-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES. MINIMUM VERTICAL CLEARANCE BETWEEN ANY STORM PIPE AND BOX SHALL BE AT LEAST 24-INCHES FROM EXTERIOR OF THE STORM PIPE OR BOX TO THE EXTERIOR OF THE EXISTING OR PROPOSED PUBLIC OR PRIVATE UTILITY AND OTHER APPURTENANCES.

9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02086-ADJUSTING MANHOLES, INLETS, AND VALAVE BOXES TO GRADE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.

11. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.

12. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

H.C.I.D. 18 NOTES

1. ALL FACILITIES EXCEPT THOSE CONSTRUCTED FOR THE DISTRICT WILL BE OWNED, OPERATED AND MAINTAINED BY THE PROJECT OWNER OR THEIR SUCCESSORS IN TITLE.

2. CONNECTIONS TO THE DISTRICT'S FACILITIES WILL BE MADE BY THE DISTRICT OPERATOR AT THE OWNER'S EXPENSE.

3. ALL WATER METERS AND BACKFLOW PREVENTERS WILL COMPLY WITH THE DISTRICT RATE ORDER.

4. THE PROPERTY OWNER, OR THEIR AGENTS, ARE RESPONSIBLE FOR ANY DAMAGES TO THE DISTRICT'S FACILITIES, PROPERTY OR EASEMENTS AND MUST PAY THE DISTRICT'S COST FOR MAKING REPAIRS. THE DISTRICT RESERVES THE RIGHT TO REPAIR DAMAGE TO THE DISTRICT'S FACILITIES, PROPERTY OR EASEMENTS WITHOUT PRIOR NOTICE, AND TO ASSESS AGAINST THE PROPERTY OWNER SUCH COSTS, INCLUDING ATTORNEY'S FEES, AND PENALTIES AS PROVIDED FOR IN THE DISTRICTS RATE ORDER.

5. ALL WORK INSIDE DISTRICT ROW AND/OR EASEMENT MUST NOTIFY DISTRICT MIN. 48 HOURS PRIOR TO BEGINNING WORK.

PARKS AND RECREATION NOTE:

TREE AND PLANT PROTECTION

CONTRACTOR IS TO PRESERVE AND TO PROTECT EXISTING TREES AND PLANTS FROM FOLIAGE, BRANCH, TRUNK AND/OR ROOT DAMAGE THAT COULD RESULT FROM CONSTRUCTION OPERATIONS AS PER THE CITY OF HOUSTON STREET TREE ORDINANCE AND CITY OF HOUSTON SPECIFICATION 01562, INSIDE OF THE CITY'S EXISTING PAVED PUBLIC ROAD R-O-W(S) AND ANY AFFECTED COMMERCIAL B.L. SETBACK AREA.

FRANCHISE UTILITIES

CAUTION: UNDERGROUND GAS FACILITIES

The contractor shall contact the Utility Coordinating Committee at 1-800-545-6005 or 811 a minimum of 48 hours prior to construction to have main and service lines field located.

- When CenterPoint Energy pipeline markings are not visible, call (713) 207-5463 or (713) 945-8037 (7:00 a.m. to 4:30 p.m.) for status of line location request before excavation begins.
- When excavating within eighteen inches (18") of the indicated location of CenterPoint Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.
- When CenterPoint Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.
- For emergencies regarding gas lines call (713) 659-2111 or (713) 207-4200.

The contractor is fully responsible for any damages caused by his failure to exactly locate and preserve these underground facilities.

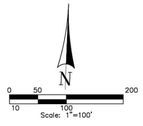
WARNING: OVERHEAD ELECTRICAL LINES

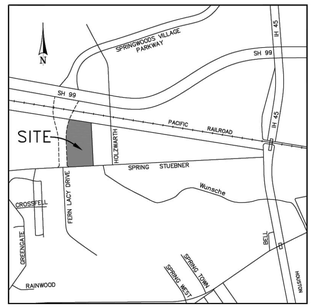
Overhead lines may exist on the property. The location of overhead lines has not been shown on these drawings as the lines are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health & Safety Code forbids activities that occur in close proximity to high voltage lines, specifically:

- Any activity where person or things

F. LIMSKY SURVEY
A-512







VICINITY MAP
N.T.S.

ABBREVIATIONS
O.P.R.R.P.H.C. = OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS
D.R.H.C. = DEED RECORDS OF HARRIS COUNTY, TEXAS
F.C. NO. = FILM CODE NUMBER
TOB = TOP OF BANK
I.R. = IRON ROD

BENCHMARK INFORMATION

REFERENCE BENCHMARK
FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL. NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS. NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.
ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARKS

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 131.31 (FEET)

FLOODPLAIN INFORMATION

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

UNSHADED ZONE X – AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

NOTES:

1. THIS IS NOT A BOUNDARY SURVEY. SUBJECT TRACT GEOMETRY IS BASED ON AN ALTA/NSPS LAND TITLE SURVEY PREPARED BY C.L. DAVIS & CO. LAND SURVEYING DATED AUGUST 19, 2019 AND TITLED "28.8908 ACRES OUT OF F. LIMSKY SURVEY, ABSTRACT 512 HARRIS COUNTY, TEXAS AND LOCATION SHOULD BE CONSIDERED APPROXIMATE.

2. ALL FIELD TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AN "ON-THE-GROUND" SURVEY PERFORMED IN THE MONTH OF APRIL, 2022.

SURVEYORS CERTIFICATE

IN MY PROFESSIONAL OPINION, THIS PLAT REPRESENTS THE FACTS FOUND ON THE GROUND DURING THE COURSE OF A TOPOGRAPHIC SURVEY CONDUCTED UNDER MY SUPERVISON ON APRIL, 2022 AND THAT THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION II SURVEY.

CHRISTOPHER B. WELLS
REGISTERED PROFESSIONAL LAND SURVEYOR #6615

STATE OF TEXAS
CHRISTOPHER B. WELLS
6615
REGISTERED PROFESSIONAL LAND SURVEYOR

(TOPOGRAPHIC SURVEY REFERENCED IS NOT TO SCALE)

CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
4424 W Sam Houston Parkway N, Suite 600
Houston, Texas 77041
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

HARMONY CITY PLACE
MIDDLE/HIGH SCHOOL
PROP. 8 IN. WATERLINE

SURVEY

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE: HORIZONTAL: VERTICAL:

SHEET NO. 3 OF 7

FOR CITY OF HOUSTON USE ONLY

PROJECT
A TOPOGRAPHIC SURVEY OF A 28.8908 ACRE TRACT SITUATED IN THE F. LIMSKY SURVEY, A-512, IN HARRIS COUNTY, TEXAS.

OWNER
SPRINGWOODS REALTY, INC.

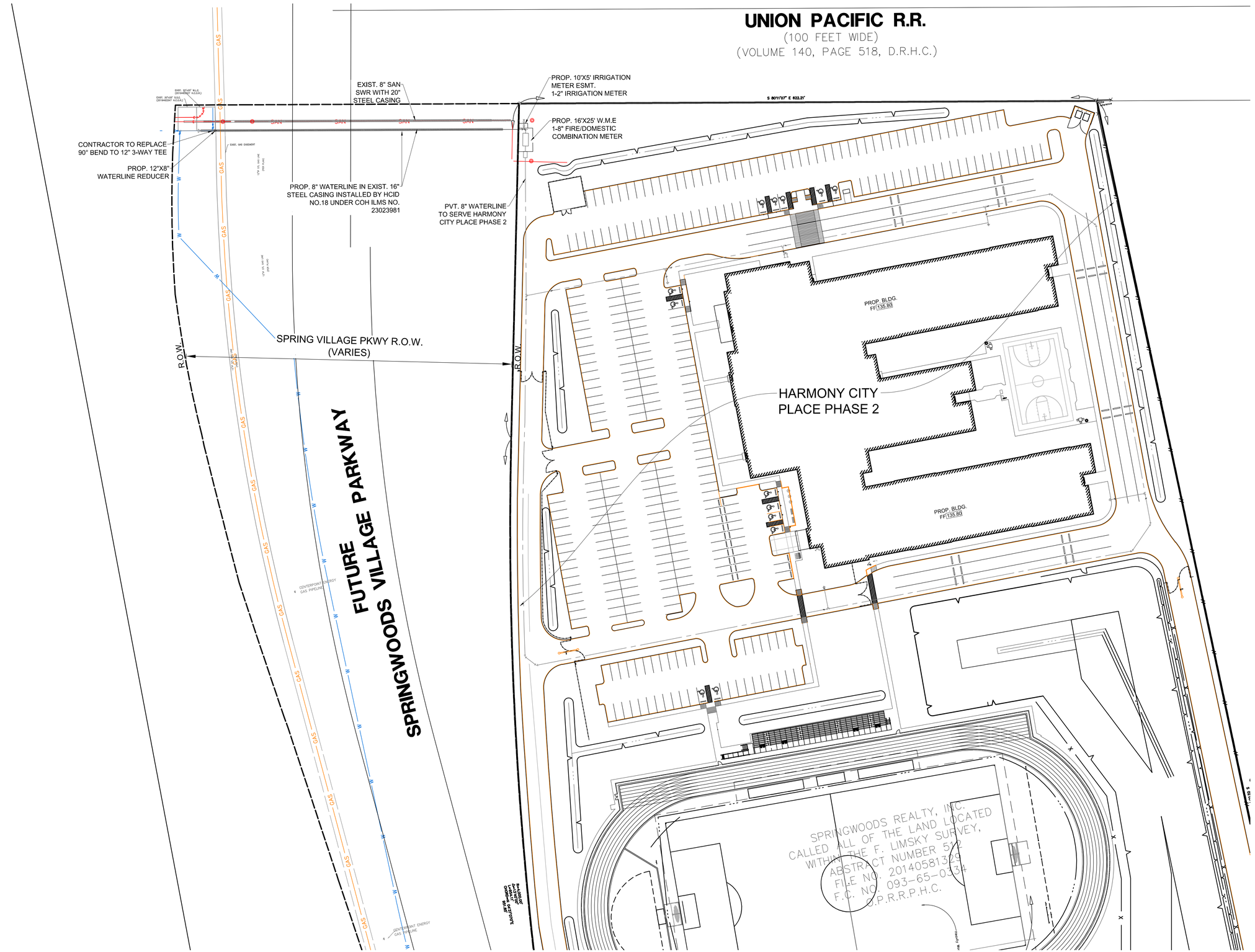
LOCATION
SPRING STUEBNER ROAD AT FUTURE SPRINGWOODS VILLAGE PARKWAY

CobbFendley
TBPE Firm Registration No. 274
TBPELS Firm Registration No. 100467
13430 Northwest Freeway, Suite 1100 Houston, Texas 77040
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

DRAWN BY: RC	DATE: 5-06-2022	SHEET 1 OF 1		REVISED
DESIGNED BY: RC	SCALE: 1"=100'	F.B. NO. 3304		
	CHK'D BY: CW	PROJECT NO. 2107-031-01-01		

HOUSTON
PUBLIC WORKS
ACCEPTED AND FILED
82371
CITY DRAWING NUMBER
Approval Date 05/28/26
HOUSTON TX

FILE PATH: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 31 - WATERLINE P&P\DWG\241004731_SURVEY.dwg



SURVEYOR

LANDTECH
2525 NORTH LOOP WEST, SUITE 300
HOUSTON, TEXAS 77008
PH: (713) 861-7068

FLOODPLAIN

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS #48201C0715M, DATED JANUARY 6, 2017.

UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

0 50' 100'
SCALE: 1" = 50'

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.

Signature valid for six months.

Date

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities – not to be used for conflict verification)

Signature valid for six months.

Date

Approved for AT&T underground conduit facilities only.
Signature valid for one year.

CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
4424 W Sam Houston Parkway N, Suite 600
Houston, Texas 77041
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
5/18/2026

HARMONY CITY PLACE
MIDDLE/HIGH SCHOOL
PROP. 8 IN. WATERLINE

OVERALL SITE PLAN

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

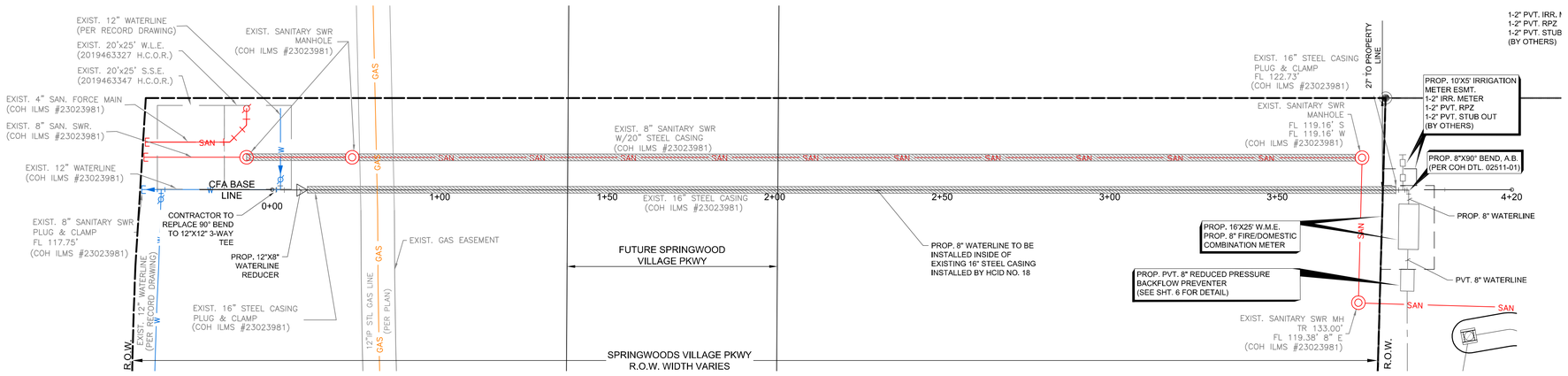
DRAWING SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A

SHEET NO. 4 OF 7

FOR CITY OF HOUSTON USE ONLY

HOUSTON PUBLIC WORKS
ACCEPTED AND FILED
82371
CITY DRAWING NUMBER
Approval Date 05/28/26
HOUSTON TX

FILE PATH: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 31 - WATERLINE P&P\DWG\241004731_OVERALL SITE PLAN.dwg



PROP. LEGEND

- SANITARY SEWER MANHOLE
- WATERLINE REDUCER
- GAS — EXIST. GAS LINE
- SAN — EXIST. SANITARY LINE
- W W W — EXIST. WATERLINE
- W — PROP. WATERLINE

NOTES

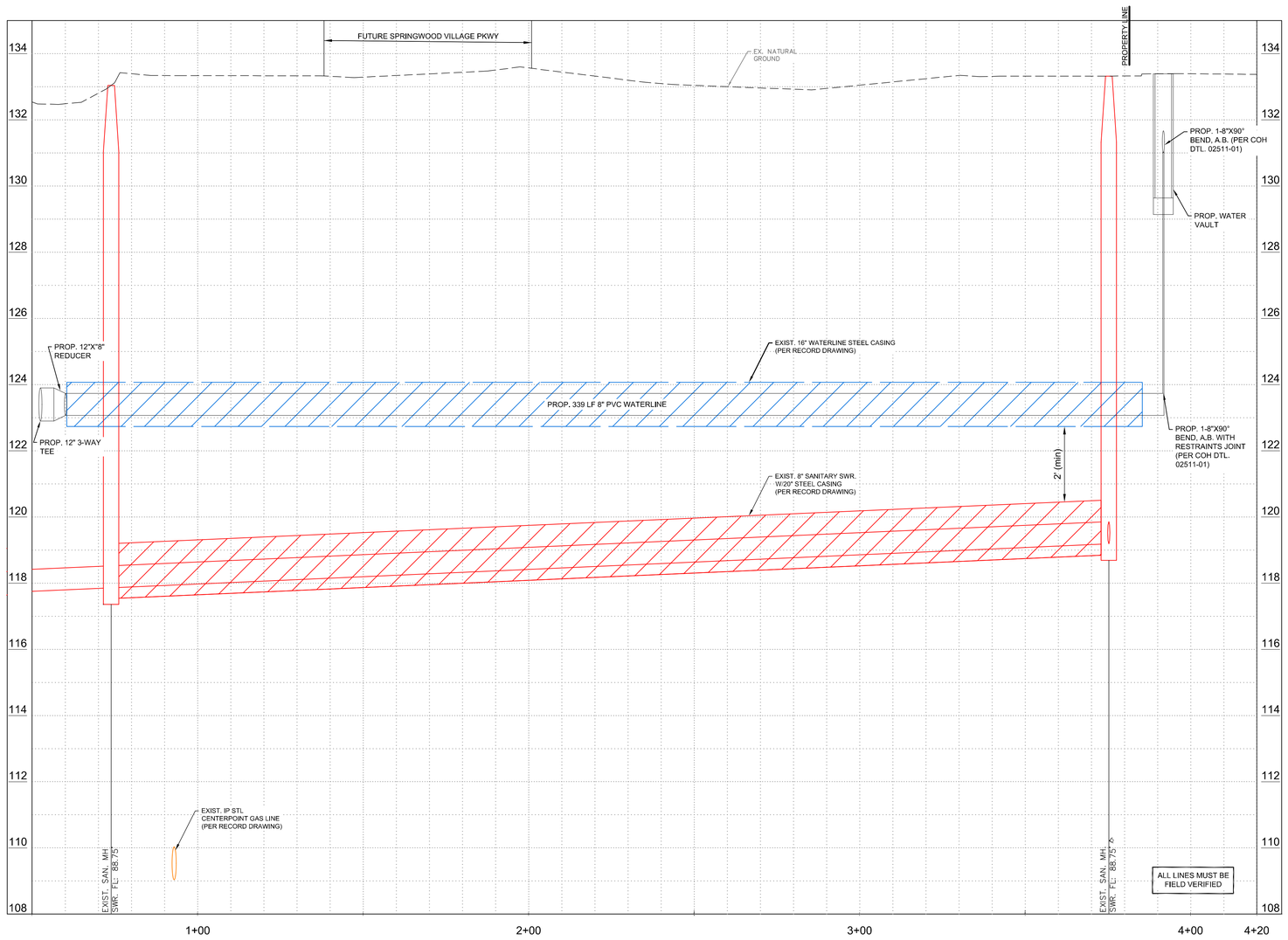
1. CONTRACTOR TO FIELD VERIFY EXIST. DEPTH AND LOCATION OF EXISTING UTILITIES.
2. CONTRACTOR TO RE-GRADE ANY EXISTING DITCHES TO PROVIDE POSITIVE FLOW FOR STORM SEWER RUNOFF. TOP OF BANK ELEVATION SHALL BE MAINTAINED. IF DURING RE-GRADING OPERATIONS IT IS DETERMINED THAT SIDE SLOPE OF DITCH AFTER RE-GRADING IS GREATER THAN 3:1, CONTRACTOR TO NOTIFY ENGINEER.
3. CONTRACTOR TO RESTORE EXISTING NATURAL GROUND AND PAVEMENT WITHIN LIMITS OF OPEN CUT CONSTRUCTION ALONG ALIGNMENT OF PROPOSED 8" WATER PIPE.
4. CONTRACTOR TO FIELD VERIFY DEPTH OF EXIST. NATURAL GAS LINE AND COORDINATE WITH CENTERPOINT REQUIRED ADJUSTMENT.
5. NORTHING/EASTING SHOWN IN SURFACE COORDINATES.

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CALL BEFORE YOU DIG !
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST – STOP CALL
Texas One Call System
1-800-669-8344

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.

SCALE H 1":20' V 1":2'



SURVEYOR

LANDTECH
2525 NORTH LOOP WEST, SUITE 300
HOUSTON, TEXAS 77008
PH: (713) 861-7068

FLOODPLAIN

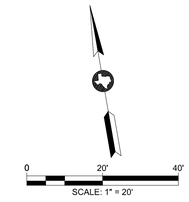
THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS #48201C0715M, DATED JANUARY 6, 2017.

UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.



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5/18/2026

HARMONY CITY PLACE
MIDDLE/HIGH SCHOOL
PROP. 8 IN. WATERLINE

WATERLINE PLAN & PROFILE

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

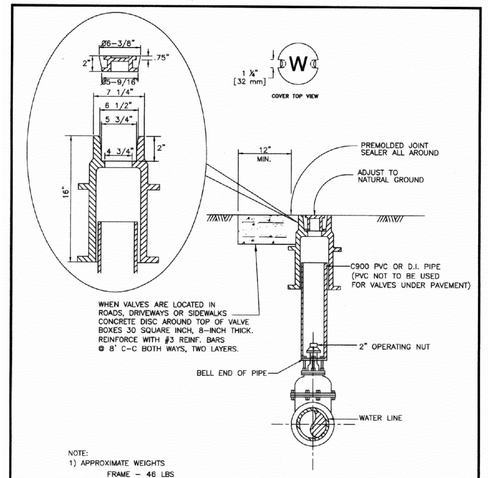
DRAWING SCALE: HORIZONTAL: 1"=20' VERTICAL: 1"=2'

SHEET NO. 5 OF 7

FOR CITY OF HOUSTON USE ONLY

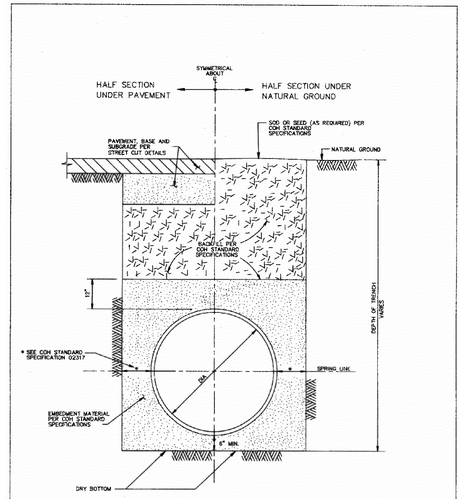
HOUSTON PUBLIC WORKS
ACCEPTED AND FILED
82371
CITY DRAWING NUMBER
Approval Date 05/28/26
HOUSTON TX

FILE PATH: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 31 – WATERLINE P&P\DWG\241004731_WATERLINE P&P.dwg



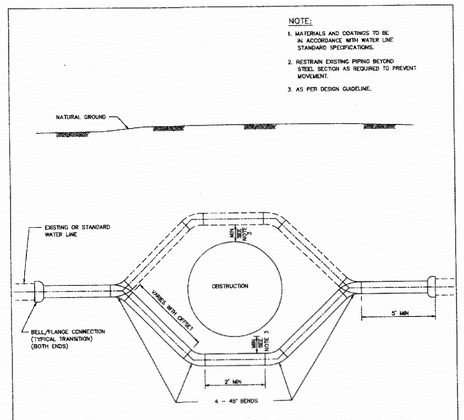
NOTE:
1) APPROXIMATE WEIGHTS
FRAME – 46 LBS
COVER – 10 LBS
2) MATERIAL – GRAY IRON ASTM A48 CL35B

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
VALVE BOX DETAIL (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF. DATE: JULY 01, 2010	DWG. NO. 02065-03



CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
WATER DISTRIBUTION MAIN BEDDING AND BACKFILL FOR OPEN CUT TRENCHES (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO. 02317-04

NOTE:
1. MATERIALS AND COATINGS TO BE IN ACCORDANCE WITH WATER LINE STANDARD SPECIFICATIONS.
2. RESTRAIN EXISTING PIPING BEYOND STEEL SECTION AS REQUIRED TO PREVENT MOVEMENT.
3. AS PER DESIGN GUIDELINE.

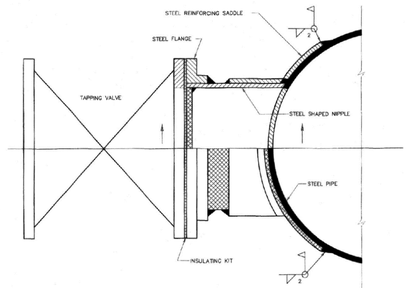


PIPE OFFSET ALTERNATES

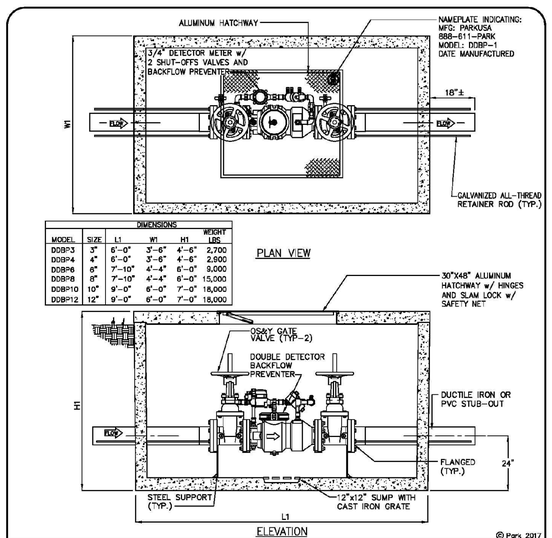
1. DUCTILE IRON PIPE PRESSURE 250 PSI WITH APPROVED RESTRAINED JOINTS.
2. PVC PIPE WITH INTEGRAL RESTRAINED JOINT SYSTEM, OR DUCTILE – IRON RESTRAINED JOINT FITTINGS, EPOXY LINED AND COATED. USE 250 PSI AWWA C900 OR 14 FOR PVC RESTRAINED JOINTS.
3. PVC NOT ALLOWED FOR GREATER THAN 20 FT OF COVER OR FOR DIAMETER LARGER THAN 20 IN.
4. USE ONLY DUCTILE IRON AND PVC PRODUCTS LISTED ON COE DIVISION APPROVED PRODUCTS LIST AND IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
TYPICAL STEEL PIPE OFFSET SECTION FOR WATER LINES (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO. 02511-01

GENERAL NOTES:
1. PROVIDE STEEL TAPPING SLEEVE AS PER WATER MAIN SPECIFICATIONS.
2. WELDING SHALL BE AS NOTED IN WELD SYMBOLS.
3. INSULATING KIT IN ACCORDANCE WITH WATER MAIN SPECIFICATIONS.
4. REPAIR COATING AS PER WATER MAIN STANDARD SPECIFICATIONS.



CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
STANDARD TAP TO EXISTING STEEL MAIN (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO. 02512-04



DIMENSIONS					
MODEL	SIZE	L1	W1	H1	WEIGHT LBS
DDBP3	3"	6'-0"	3'-6"	4'-6"	2,700
DDBP4	4"	6'-0"	3'-6"	4'-6"	2,900
DDBP6	6"	7'-10"	4'-4"	6'-0"	9,000
DDBP8	8"	7'-10"	4'-4"	6'-0"	15,000
DDBP10	10"	9'-0"	6'-0"	7'-0"	18,000
DDBP12	12"	9'-0"	6'-0"	7'-0"	18,000

© Park 2017

Specifications

CONCRETE: Class I/II concrete with 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.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: Aluminum diamond plate cover with extruded aluminum frame furnished with drop handle, open door support and slam lock. (300 P.S.F. live load)

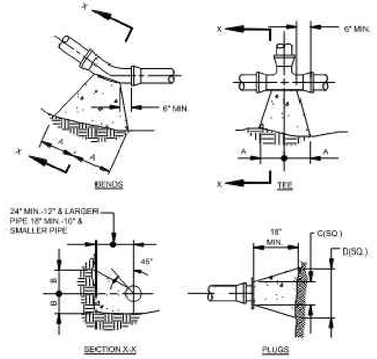
Engineering Data
The backflow assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA UL USC FM

PROJECT:	
CUSTOMER:	
LOCATION:	
ORDER #:	
PROJ #:	
DATE:	

DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY				
PM	DRN	ENG	DWG. NO.	REV.
-	-	-	DDBP-1	A
DATE 04/17				

DDBP-1

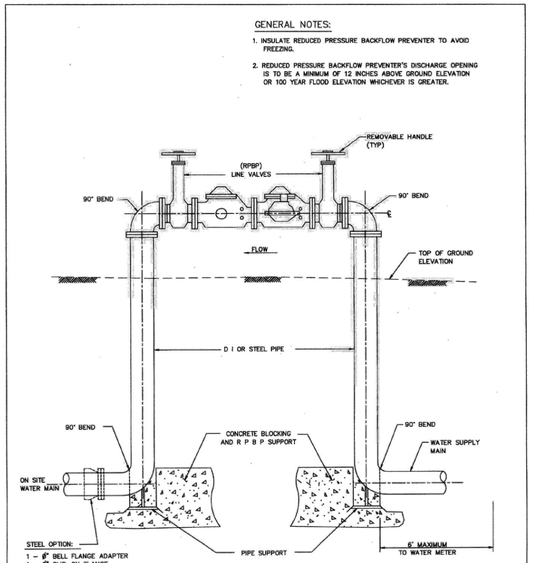


SOIL TYPE	PIPE SIZE	90° BENDS		45° BENDS		22.5° BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE I 4000 PSF SOIL	6"	8"	10"	6"	8"	3"	11"	8"	11"	10"	15"
	8"	12"	12"	8"	10"	5"	11"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
	16"	26"	20"	16"	18"	11"	13"	18"	20"	20"	38"
TYPE II 2000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTE:
BASED ON 100 P.S.I. STATIC PRESSURE PLUS A.W.W.A. HAMMER.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

THRUST BLOCKING DETAIL
N.T.S.

GENERAL NOTES:
1. INSULATE REDUCED PRESSURE BACKFLOW PREVENTER TO AVOID FREEZING.
2. REDUCED PRESSURE BACKFLOW PREVENTER'S DISCHARGE OPENING IS TO BE A MINIMUM OF 12 INCHES ABOVE GROUND ELEVATION OR 100 YEAR FLOOD ELEVATON WHICHEVER IS GREATER.



CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
REDUCED PRESSURE BACKFLOW – PREVENTER (R P B P) (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO. 02523-01

CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
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5/18/2026

HARMONY CITY PLACE
MIDDLE/HIGH SCHOOL
PROP. 8 IN. WATERLINE

CONSTRUCTION DETAILS
(1 OF 2)

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

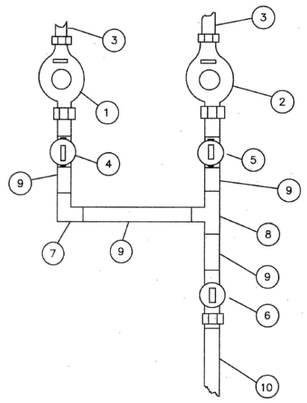
DRAWING SCALE: HORIZONTAL: VERTICAL:

SHEET NO. 6 OF 7

FOR CITY OF HOUSTON USE ONLY

HOUSTON PUBLIC WORKS
ACCEPTED AND FILED
82371
CITY DRAWING NUMBER
Approval Date 05/28/26
HOUSTON TX

FILE PATH: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 31 – WATERLINE P&P\DWG\241004731_CONSTRUCTION DETAILS.dwg



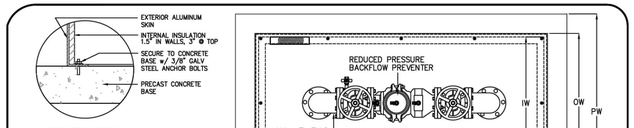
LEGEND

1. IRRIGATION METER
2. DOMESTIC METER
3. PRIVATE LINE
4. IRRIGATION CURB STOP
5. DOMESTIC CURB STOP
6. EXISTING CURB STOP
7. BRASS 90 DEGREE ELBOW
8. BRASS TEE
9. BRASS PIPE
10. SERVICE LINE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

SCHEMATIC
IRRIGATION TEE
OFF DOMESTIC
3/4" THRU 2"
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER
APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010 | DWG NO: 02526-14

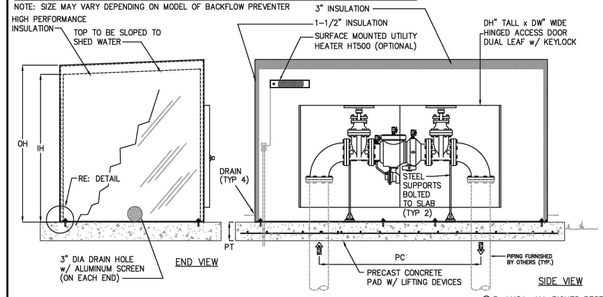


MOUNTING DETAIL

TOP VIEW

MODEL NO.	BFP SIZE	INSIDE DIMENSIONS IL	IW	IH	OUTSIDE DIMENSIONS OL	OW	OH	DOOR SIZE DH	DW	PAD DIMENSIONS PL	PW	PT	"PC" PIPE CENTERS
RPBPAE-2.5	2½"	72"	22"	38"	75"	25"	41"	26¾"	38"	100"	40"	6"	42"
RPBPAE-03	3"	86"	26"	44"	89"	29"	47"	28¾"	44"	100"	40"	6"	43"
RPBPAE-04	4"	86"	26"	44"	89"	29"	47"	28¾"	44"	100"	40"	6"	50⅜"
RPBPAE-06	6"	97"	33"	61"	100"	36"	64"	38¾"	64"	114"	50"	6"	60⅜"
RPBPAE-08	8"	97"	33"	61"	100"	36"	64"	38¾"	64"	114"	50"	6"	78¾"
RPBPAE-10	10"	120"	38"	64"	123"	41"	67"	38¾"	64"	134"	52"	6"	85¾"

NOTE: SIZE MAY VARY DEPENDING ON MODEL OF BACKFLOW PREVENTER



END VIEW SIDE VIEW

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Specifications

GENERAL
The Model ERP aluminum enclosure is pre engineered to provide protection to backflow preventers, meters, pumps, and other devices installed above ground. These water conveying devices are subject to freezing and vandalism. The enclosure is designed to be installed over the equipment after installation. The enclosure is equipped with access doors to provide adequate access to the equipment.

CONSTRUCTION
The enclosure shall be manufactured from all new materials. The exterior shall be fabricated with 0.090 aluminum, continuously welded. The access door(s) shall be of like material and hinged with a continuous hinge. The door shall be equipped with a 3-point locking mechanism. The interior of the enclosure shall be structurally lined with high performance, non-wicking insulation.

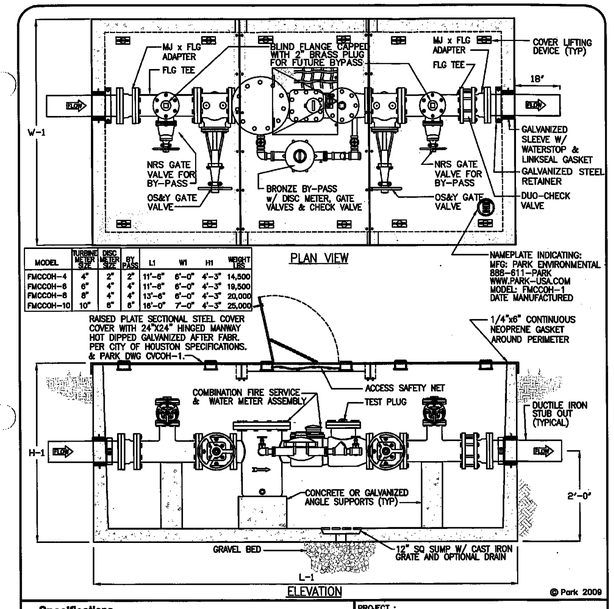
HEATER
Interior heaters (if required) shall be thermostatically controlled and be mounted to the interior wall of the enclosure. A GFI receptacle shall be provided by others to provide power to the electric heater.

PROJECT:
CUSTOMER:
ENGINEER:
ORDER #:
PROJ #:
DATE:

WEATHERPROOF ENCLOSURE FOR
RPZ BACKFLOW PREVENTER

PM	DRN	ENG	DWG. NO.	REV.
			RPBPAE-1	A
DATE 2018				

RPBPAE-1



PLAN VIEW

ELEVATION

MODEL	FLANGED METER SIZE	DISC METER SIZE	BYPASS	QTY.	L1	W1	H1	WEIGHT LBS.
FMCCOH-4	4"	2"	2"	1	11'-6"	6'-0"	4'-3"	14,500
FMCCOH-6	6"	4"	4"	1	11'-6"	6'-0"	4'-3"	19,500
FMCCOH-8	8"	4"	4"	1	13'-6"	6'-0"	4'-3"	20,000
FMCCOH-10	10"	6"	6"	1	16'-0"	7'-0"	4'-3"	25,000

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Specifications

CONCRETE : Class I concrete with 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.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

STEEL COVER: All steel fabrication shall be in accordance to AWA D1.1 Steel shall be ASTM A36 carbon steel, and hot dipped galvanized after fabrication in accordance to ASTM A123. Standard cover is rated for 300 PSF.

Engineering Data

The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

FM AWWA UL RPC IAPMO

PROJECT :
CUSTOMER :
ORDER # : DATE :

City of Houston

FIRE/DOMESTIC COMBINATION METER ASSEMBLY
MODEL FMCCOH - 4" THRU 10"

SCALE	NONE	DWG. NO.	REV.
DATE	12/09	FMCCOH-1	A

CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
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5/18/2026

HARMONY CITY PLACE
MIDDLE/HIGH SCHOOL
PROP. 8 IN. WATERLINE

CONSTRUCTION DETAILS (2 OF 2)

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

DRAWING SCALE: HORIZONTAL: VERTICAL:

SHEET NO. 6 OF 7

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HOUSTON PUBLIC WORKS
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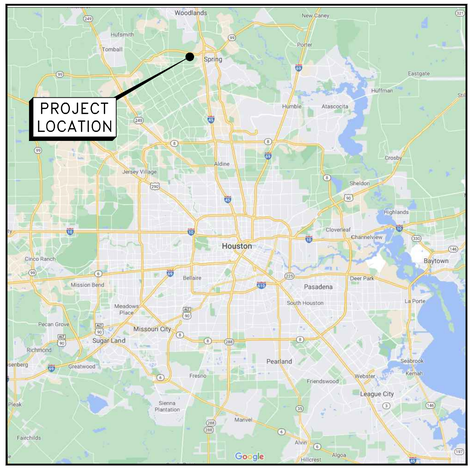
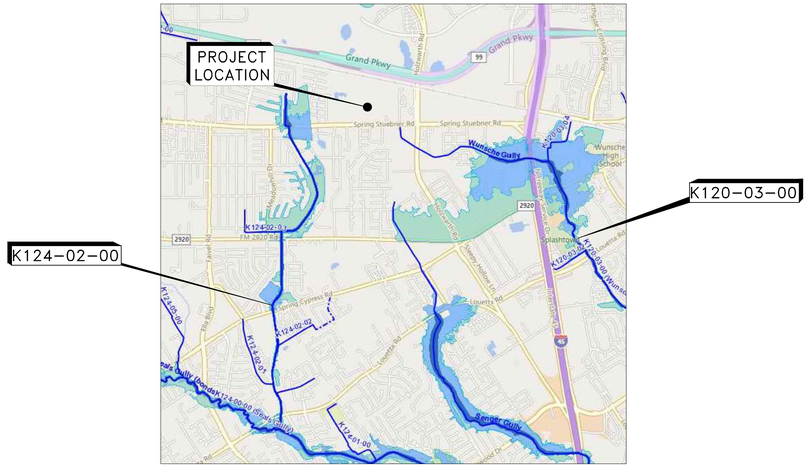
FILE PATH: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 31 - WATERLINE P&P\DWG\241004731_CONSTRUCTION DETAILS.dwg

CONSTRUCTION PLANS
FOR
LEFT TURN LANE GRADING AND PAVING IMPROVEMENTS
TO SERVE
HARMONY CITY PLACE MIDDLE/HIGH SCHOOL
2600 SPRING STEUBNER RD,
SPRING, TEXAS 77389



LOCATION MAP



VICINITY MAP
KEY MAP NO: 292J
ZIP CODE: 77389
HARRIS COUNTY, TEXAS

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	HARRIS COUNTY FLOOD CONTROL REVIEW SHEET
3	HARRIS COUNTY ENGINEERING REVIEW SHEET
4	GENERAL NOTES
5	RECORDED PLAT
6	LEFT TURN LANE P&P
7	TRAFFIC CONTROL PLAN
8	CONSTRUCTION DETAILS

48 HOUR NOTICE:

CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES. CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ (713-274-3931) OR (PUBLIC.REVIEW@HCPID.ORG)

ACCREDITED LAB MUST OBTAIN SAMPLES AND GENERATE RESULTS FOR ALL MATERIAL USED FOR THE UTILITY BACKFILL, SUBGRADE AND PAVEMENT TO SHOW COMPLIANCE WITH THE HARRIS COUNTY INFRASTRUCTURE REGULATIONS AND COUNTY SPECIFICATIONS. THESE REPORTS NEED TO BE SUBMITTED TO ROWINSPECT@HARRISCOUNTYTX.GOV

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston)
1-800-545-6005
(New Statewide Number Outside Houston)

FIRM FLOOD INSURANCE RATE MAP
MAP # 48201C0255L
MAP REVISED: JUNE 18, 2007
UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston)
1-800-545-6005
(New Statewide Number Outside Houston)

HARRIS COUNTY MAY HAVE EXISTING UNDERGROUND/OVERHEAD UTILITIES WITHIN THE PROPOSED PROJECT LIMITS. PLEASE CONTACT THE CALL CENTER AT 713-881-3210, OR SUBMIT A WORK ORDER REQUEST THROUGH HTTP://WWW.ENG.HCTX.NET/SIGNALOUT TO OBTAIN FIELD LOCATES.

SIGNED/SEALED AS-BUILT DRAWINGS FOR ALL WORK IN THE HARRIS COUNTY ROAD RIGHT OF WAY MUST BE SUBMITTED TO HARRIS COUNTY PER CURRENT REGULATIONS, PRIOR TO REQUESTING THE INSPECTION AND POWER RELEASE. SUBMIT THE DRAWINGS TO: ROWASBUILT@HARRISCOUNTYTX.GOV



06/10/2026

CobbFendley
TBPE Firm Registration No. 274
TBPLS Firm Registration No. 100467
22316 Grand Corner Dr, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

June 2026

C3a Info: D:\Projects\20241004701_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 30 - LEFT TURN LANE\DWG\1 - 241004701_CS.dwg Saved: 6/1/2026 11:57:55 AM aali

1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
☐ 1 ☐ 2 ☒ 3 ☐ 4

B. KEY MAP: 292-J

C. ADDRESS:

II. LEGAL DESCRIPTION

A. ACREAGE: 28.92 AC

B. ☐ SUBDIVISION:

☒ SURVEY & ABSTRACT: F. LIMSKY SURVEY A-512

C. ADJACENT ROADS:

III. PLATTING

A. SUBDIVISION PLAT
☒ PROPOSED PLAT / REPLAT
☐ RECORDED PLAT / REPLAT

B. STREETS PROPOSED
☐ PUBLIC
☐ PRIVATE
☐ PUBLIC & PRIVATE
☐ NONE

PLAT NAME: SPRINGWOODS VILLAGE DISTRICT SEC 6

IV. JURISDICTIONS

☐ CITY OF
☒ ETJ, CITY OF HOUSTON
☐ ETJ, CITY OF
☐ NO ETJ
☐ UTILITY DISTRICT (NAME) HCID NO 18

V. HCAD ACCOUNT NOS. (ALL)

0431780000198, 1440310010001

2. SITE DETENTION DRAINAGE

I. PROPOSED DRAINAGE AREA

☒ NEW DEVELOPMENT AREA: 0.16 AC (LEFT TURN LANE ONLY)
☐ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA):
☐ LOW IMPACT DEVELOPMENT (LID)
METHOD/DESCRIPTION

II. METHODOLOGY

HCFCD PCPM DETENTION METHOD USED:
☐ METHOD 1 (LESS THAN 20 ACRES)
☒ METHOD 2 (20 ACRES TO 640 ACRES)
☐ METHOD 3 (GREATER THAN 640 ACRES)
☐ OTHER

III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
☐ .65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.)
☐ .75, EXISTING STORM SEWER (OWNER & OPERATOR)
☒ 1.00, ROADSIDE DITCH, (OWNER & ROAD NAME) HARRIS COUNTY, SPRING STEUBNER ROAD
☐ OTHER (OWNER & OPERATOR)

IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFCD PCPM SUMMARY TABLE SEE SHEET _____ OF THESE PLANS.

DETENTION BASIN SERVICE AREA		acres	
STORM EVENT	50% EXCEEDANCE (2-YEAR)	10% EXCEEDANCE (10-YEAR)	1% EXCEEDANCE (100-YEAR)
MAXIMUM ALLOWABLE OUTFLOW (PRE-DEVELOPMENT PEAK FLOW)			
MAXIMUM OUTFLOW PROVIDED (PEAK FLOW FROM BASIN)			
LOWEST NATURAL/FINISHED GROUND OR FINISHED FLOOR ELEVATION ESTIMATE			
DESIGN WATER SURFACE ELEVATION			
MINIMUM STORAGE REQUIRED (ac-ft)			
DETENTION STORAGE PROVIDED (ac-ft)			
STORAGE RATE PROVIDED (ac-ft/ac)			
OUTFLOW VELOCITY INTO CHANNEL (ft/sec)			
DRAIN TIME - 1% ONLY (hours)			
EMERGENCY OVERFLOW (TYPE, SIZE, ELEVATION, ETC.)			

B. DETENTION BASIN TO BE MAINTAINED BY

C. DETENTION SERVICE AREA MAP ON SHEET

D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = _____ ACFT _____ % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = _____ FT/SEC
DRAIN TIME FOR BASIN = _____ HOURS BASED ON _____HEAD CONDITIONS

V. DETENTION PROVIDED IN OTHER PLANS:

HCFCD PROJECT No. 2208190122 DATE SIGNED BY HCFCD: 10-27-2022
PLAN TITLE HARMONY CITY PLACE
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET C3.0
ENGINEERING FIRM COBBFENDLEY
DETENTION BASIN MAINTAINED BY: OWNER

VI. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE: 24"
RESTRICTOR PIPE SIZE: 24"
RESTRICTOR PLATE DIMENSION: 14.1" diameter

VII. DETENTION PROVIDED BY

☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.):

FOR PROJECTS LOCATED IN ANY FLOODPLAIN
Development constructed or placed in accordance with these plans will comply with all provisions of the designated Floodplain Administrator.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET ____ OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED _____.

TOTAL ACREAGE = 0
TOTAL DISCHARGE = 0

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. SWQ DISCHARGE INTO FCD FACILITY

I. SWPPP: CONSTRUCTION MEASURES. (Must complete)

☒ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S) C5.0 & C5.1
☐ DISTURBS <1AC. N/A

*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)

EXEMPT NEW DEVELOPMENT:
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)

EXEMPT REDEVELOPMENT:
☐ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)

EXEMPT GRANDFATHERED:
☐ PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)

GENERAL:
☒ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: CITY OF HOUSTON
☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE:

HARRIS COUNTY PROJECT No _____ & SWQ PERMIT No.

STORMWATER QUALITY MANAGEMENT PLAN:
☒ SITE PLAN ON SHEET(S) C3.5

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)

☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S)
☐ POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONSAPPEAR ON SHEET(S)
☐ HYDRODYNAMIC TYPE SEPARATOR MODEL:
☐ OTHER(S):

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0255L
FIRM PANEL(S) DATE: JUNE 18, 2007
STATUS OF PROPERTY ON MAP
☒ ENTIRELY LOCATED IN UNSHADED ZONE "X"
☐ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____) (0.2% BASE FLOOD LEVEL_____)
☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET_____

ELEVATION INFORMATION
BENCHMARK USED
☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT *(2001 ADJ.)* FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FLAVEL, NORTH ALONG FLAVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STEUBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION

☒ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY

(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) _____ CUBIC YARDS _____

B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:
BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) _____ CUBIC YARDS _____
INCLUDING CALCULATIONS)

C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET _____

5. WORK IN HCFCD RIGHT-OF-WAY

I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFCD ROW

A. BOND/NOTIFICATION INFORMATION
☐ HCFCD WATERSHED
☐ HCFCD UNIT No.
☐ NUMBER OF OUTFALLS
☐ UTILITY CROSSING
☐ ROADWAY BRIDGE/CULVERT CROSSING
☐ FILL ACTIVITY
☐ REHABILITATION OF CHANNEL
☐ MAINTENANCE
☐ TEMPORARY CROSSING
☐ TRAIL (LENGTH)
☐ OTHER
COST OF WORK IN HCFCD ROW

II. USACE ENVIRONMENTAL PERMIT

☐ US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S)
☐ US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
☐ OTHER
☐ NO PERMITS REQUIRED
EXPLAIN:

III. REFERENCE / BASIS OF DETERMINATION

☐ ENVIRONMENTAL CONSULTANT REPORT
BY
REPORT TITLE
REPORT DATE
☐ OTHER

NOTES:
I. – III. REQUIRED ON PROJECTS WITH WORK IN A HCFCD CHANNEL. PLEASE REFERENCE SECTION 17 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.

IV. HCFCD STANDARD NOTES: SEE SHEET 4 OF THESE PLANS.

V. HCFCD STANDARD DETAILS: SEE SHEET 8 OF THESE PLANS.

VI. HCFCD ACCESS PLAN: SEE SHEET _____ OF THESE PLANS.

VII. REFER TO THE FOLLOWING PLAN SHEETS:
FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFCD POLICY, CRITERIA, & PROCEDURE MANUAL (i.e., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFCD, PUBLIC, TXDOT, ETC.)

6. REPORTS/AGREEMENTS

I. HCFCD ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE 3,602-ACRE ELYSON DEVELOPMENT PHASE 2 (670 ACRES) DRAINAGE IMPACT STUDY
HCFCD PROJECT # 1612270029
ENGINEERING FIRM BGE
REPORT ACCEPTANCE DATE 12/4/2019

GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE
HCFCD PROJECT #
ENGINEERING FIRM
REPORT ACCEPTANCE DATE

HCFCD APPROVED VARIANCE
DESCRIPTION OF VARIANCE
DOCUMENT ID #
VARIANCE ACCEPTANCE DATE

II. AGREEMENT TYPE & No.;

☐ INTERLOCAL (ILA):
☐ HCFCD MAINTENANCE
☐ TURF ESTABLISHMENT
☐ OTHER

HCFCD SIGNATURE BLOCK

PROJECT NAME: HARMONY CITY PLACE - PHASE 2 LEFT TURN LANE
ADDRESS: 2600 SPRING STEUBNER RD, SPRING, TEXAS 77389
WAS ACCEPTED BY HARRIS COUNTY FLOOD CONTROL DISTRICT FOR THE PURPOSES LISTED BELOW:

HARRIS COUNTY FLOOD CONTROL DISTRICT

INTERPOSE NO OBJECTION
BY
FOR ITEMS LOCATED OUTSIDE OF HCFCD RIGHT-OF-WAY

APPROVED:
BY
FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY

APPROVED:
BY
FOR ITEMS LOCATED WITHIN PROPOSED HCFCD RIGHT-OF-WAY

NO REVIEW REQUIRED:
BY Chris Bennett Digitally signed by Chris Bennett Date: 2026.04.16 19:12:51 -05'00'
FINAL PERMITTING BY OTHERS

ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, MICHAEL F.A. MAZZOLA, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.

ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 8.

SIGNATURE Michael Mazzola DATE 4/7/2026

SEAL: STATE OF TEXAS · MICHAEL F.A. MAZZOLA · 117109 · LICENSED PROFESSIONAL ENGINEER

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C.F.C.D APPROVED DATE

HARRIS COUNTY FLOOD CONTROL PROJECT NO. 2602180062

SHEET NUMBER 2 OF 8

HARRIS COUNTY
FLOOD CONTROL DISTRICT
REVIEW SHEET

VERSION 1.0 OCTOBER 2019

1. PAVING

(FOR H.C. PUBLIC R.O.W. ONLY)

CONCRETE

DESIGN THICKNESS OF PAVING	STABILIZED SUBGRADE DEPTH	DESIGN STRENGTH OF CONCRETE	STEEL SPACING		REINFORCE STEEL SIZE
			LONG.	TRANS.	
(IN.)	(IN.)	(PSI)	(IN.)	(IN.)	(#4 MIN.)
10	8	4,000	18"	36"	#5

ASPHALT

DESIGN SURFACE COURSE THICKNESS	DESIGN SURFACE COURSE TYPE	DESIGN BASE COURSE THICKNESS	DESIGN BASE COURSE TYPE	STABILIZED SUBGRADE THICKNESS	STABILIZED SUBGRADE TYPE
(IN.)	(MATERIAL)	(IN.)	(MATERIAL)	(IN.)	(MATERIAL)

DRIVEWAYS (in H.C. ROW only)

I. NUMBER OF DRIVEWAY APPROACHES PROPOSED INCLUDE WIDENING OR REPAVING EXISTING DRIVEWAYS AS WELL AS NEW DRIVEWAYS

DRWY	WIDTH	MATERIAL	CULVERT?	CULVERT LENGTH	NEAREST X-STREET	DIST. TO X-STREET
1	30 FT	CONC.	YES	EXIST. 2'X5'	AT LOCATION	0 FT
2						
3						
4						
5						

II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET C9.0

FIRE APPARATUS ACCESS ROAD

☐ REQUIRED AND SHOWN ON SHEET(S) _____

☒ NOT REQUIRED DUE TO ONLY LEFT TURN LANE IS BEING PROPOSED BY THIS SET

CURBING

I. ISLANDS, MEDIANS AND ALL AREAS NOT TAKING DIRECT DRIVEWAY ACCESS REQUIRES STANDARD 6" CURBING

II. ☒ STANDARD 6" CURBING PROPOSED
☐ 4" x 12" CURBING PROPOSED EXCEPT AT MEDIANS AND ISLANDS

TRAFFIC CONSIDERATIONS

I. MEDIAN CUTS
☐ NO MEDIAN CUT OR RELOCATION IS PROPOSED
☒ MEDIAN MODIFICATIONS ARE SHOWN ON SHEET 6

II. LEFT / RIGHT TURN LANE
☐ NO LEFT / RIGHT TURN LANE IS PROPOSED
☒ LEFT / RIGHT TURN LANE IS SHOWN ON SHEET 6

III. TRAFFIC CONTROL PLAN
☐ NO WORK IN THE RIGHT OF WAY IS PROPOSED THAT WOULD INTERFERE WITH TRAFFIC FLOW
☒ TRAFFIC CONTROL SHOWN ON SHEET C8.0

IV. TRAFFIC SIGNAL
☒ NO TRAFFIC SIGNAL IS EXISTING / PROPOSED
☐ EXISTING TRAFFIC SIGNAL DEVICES (T.C. BOXES AND LOOPS) SHOWN ON SHEET _____
☐ PROPOSED TRAFFIC SIGNAL (BY OTHERS)

V. TRAFFIC IMPACT ANALYSIS
☐ NO TRAFFIC IMPACT ANALYSIS IS REQUIRED
☒ TRAFFIC IMPACT ANALYSIS HAS BEEN APPROVED ON DATE: 09/19/2023
PLAN TITLE: HARMONY CITY PLACE ELEMENTARY & MIDDLE/HIGH SCHOOL TRAFFIC IMPACT ANALYSIS
HCPID PROJECT NO.: 221108135

5. DESCRIPTION OF PROPERTY

I. LEGAL DESCRIPTION
A. ACREAGE: 28.89 AC
B. ☐ SUBDIVISION: _____
☒ SURVEY & ABSTRACT: SPRINGWOODS REALTY, INC.
CALLED ALL OF THE LAND LOCATED WITHIN THE F. LIMSKY SURVEY, ABSTRACT NUMBER 512
FILE NO. 20140581329 F.C. NO. 093-65-0334 O.P.R.R.P.H.C.
C. ADJACENT ROADS: SPRING STEUBNER RD.

II. PLATTING
A. SUBDIVISION PLAT
☒ PROPOSED PLAT / REPLAT
☐ RECORDED PLAT / REPLAT
PLAT NAME: SPRINGWOODS VILLAGE DISTRICT SECTION 6
B. STREETS PROPOSED
☐ PUBLIC
☐ PRIVATE
☐ PUBLIC & PRIVATE
☐ NONE

III. JURISDICTIONS
☐ CITY OF _____
☒ ETJ, CITY OF HOUSTON
☐ ETJ, CITY OF _____
☐ NO ETJ

IV. HCAD ACCOUNT NOS. (ALL) KEY MAP PAGE 292-J
0431780000198, 1440310010001

V. UNOBSTRUCTED VISIBILITY EASEMENT (U.V.E.)
☐ REQUIRED AND SHOWN ON SHEET(S) _____
☒ NOT REQUIRED

NOTE: ALL APPROVED, FINAL PLATS AND ASSOCIATED CPC101 FORMS MUST BE INCLUDED WITH PLAN SUBMITTAL.

☐ CONFORMING SUBDIVISION
☐ NON-CONFORMING SUBDIVISION
☐ PARTIALLY NON-CONFORMING SUBDIVISION

2. RESIDENTIAL / SUBDIVISION DRAINAGE

I. PROPOSED DRAINAGE SYSTEM TYPE
☐ STORM SEWER
☐ ROADSIDE DITCH
☐ LOW IMPACT DEVELOPMENT (LID)

II. DESIGN METHOD USED
☐ CITY OF HOUSTON _____ YEAR FREQUENCY
☐ OTHER: _____

III. DRAINAGE SYSTEM OUTFALLS DIRECTLY TO EXISTING
☐ DETENTION POND (APPROVED H.C. PRJ NO.): _____
DETENTION POND MAINTAINED BY: _____
☐ HCFCD DRAINAGE DITCH UNIT NO.: _____
☐ H.C. ROADSIDE DITCH (ROAD NAME): _____
☐ H.C. STORM SEWER (APPROVED H.C. PRJ NO.): _____

IV. H.C. OUTFALL CALCULATIONS
☐ ROADSIDE DITCH OUTFALL:
ALLOWABLE OUTFALL RATE: 0.0027 x _____ LF Frontage = _____ (CFS)
PROPOSED OUTFALL RATE: ____ (CFS), CALCULATIONS PROVIDED ON SHEET ___
☐ STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
APPROVED H.C. PROJECT NO.: _____
ACTUAL OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ___

V. DETENTION PROVIDED BY
☐ DETENTION BASIN IS PART THIS PLAN SET. SERVICE AREA MAP IS ON SHEET ___
☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.): _____

PROPOSED STORM SEWER IS SUBMERGED (AGREEMENT MUST BE PROVIDED).
STATIC W.S.E. @ OUTFALL IS _____.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET C3.0 OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED N/A.

TOTAL ACREAGE = 0
TOTAL DISCHARGE = 0

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. COMMERCIAL / OTHER SITE DRAINAGE

I. PROPOSED DRAINAGE AREA
☐ NEW DEVELOPMENT AREA: _____
☐ RE-DEVELOPMENT AREA (NET NEW DEVELOPED AREA): _____
☐ LOW IMPACT DEVELOPMENT (LID)

II. DETENTION VOLUME
NEW AREA_____ X ____* =_____ACRE FEET
DETENTION REQUIRED
* ☐ .65 (CHANNEL)
* ☐ .75 (STM SWR)
* ☐ 1.00 (RD. DITCH)
* ☐ OTHER: _____
PROPOSED DETENTION VOLUME = _____ ACRE FEET
PROPOSED DETENTION VOLUME CALCULATIONS ARE SHOWN ON SHEET _____
DETENTION VOLUME PROVIDED BY EXISTING DETENTION POND APPROVED H.C. PROJECT NO.:
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET ____

III. OUTFALL
OUTFALL TO ☐ H.C. ROADSIDE DITCH
☐ EXISTING H.C. STORM SEWER
☐ OTHER _____
☐ ROADSIDE DITCH OUTFALL:
ALLOWABLE OUTFALL RATE: 0.0027 x _____ LF Frontage = _____ (CFS)
PROPOSED OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ___
☐ STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
APPROVED H.C. PROJECT NO.: _____
ACTUAL OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ___

IV. PUMPED DETENTION FACILITIES
VOLUME THAT GRAVITY FLOWS: _____ ACRE FEET
VOLUME THAT IS PUMPED: _____ ACRE FEET
ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: _____
PUMP SPECIFICATIONS AND AUTOMATIC SHUTOFF PLAN FOR ROADSIDE DITCH & STORM SEWER OUTFALLS APPEAR ON SHEET _____

V. FLOW RESTRICTOR SIZE
OUTFALL PIPE SIZE: _____
RESTRICTOR PIPE SIZE: _____

NOTE: ALL ROADSIDE DITCH OUTFALLS REQUIRE EROSION CONTROL MEASURES. RIPRAP IS NOT ALLOWED AS AN EROSION CONTROL MEASURE IN HARRIS COUNTY ROW. ALL PUMPED DETENTION OUTFALLS TO ROADSIDE DITCHES REQUIRE MANHOLE W/ LEADS.

4. WATER AND WASTEWATER

I. COMMERCIAL PROJECTS
DOES PROPERTY HAVE EXISTING AND/OR PROPOSED UTILITIES?
☒ YES ☐ NO
IF YES, CHECK THE BOX THAT APPLIES TO THIS PROJECT
☒ PUBLIC WATER & SANITARY
☐ PRIVATE WATER WELL & SEPTIC SYSTEM
☐ PUBLIC WATER & PRIVATE SEPTIC SYSTEM
☐ PRIVATE WATER WELL & PUBLIC SANITARY

NOTE: PUBLIC UTILITIES REQUIRE A LETTER FROM THE DISTRICT/ MUNICIPALITY AUTHORIZING SERVICE & CONNECTION. THIS IS REQUIRED FOR PLAN APPROVAL.
UTILITY DISTRICT/MUNICIPALITY NAME: HCID NO. 18

NOTE: SEPTIC SYSTEMS REQUIRE H.C. WASTE WATER REVIEW
H.C. SEPTIC PERMIT/REQUEST NO. _____

NOTE: ALL EXISTING AND PROPOSED UTILITIES MUST BE ACCURATELY SHOWN & LABELED ON THE SITE PLANS.

II. SUBDIVISION PROJECTS
☐ UTILITY DISTRICT/MUNICIPALITY NAME: _____
☐ PRIVATE WATER & WASTE WATER SYSTEMS
☐ PRIVATE WATER & INDIVIDUAL OSSF
☐ INDIVIDUAL WATER WELL & OSSF

NOTE: A COPY OF TCEQ APPROVAL FOR PRIVATE WATER & WASTE WATER SYSTEMS IS REQUIRED FOR PLAN APPROVAL.

NOTE: DEDICATED UNDERGROUND FIRE LINES MUST BE SUBMITTED TO THE HARRIS COUNTY FIRE PROTECTION GROUP FOR REVIEW AND PERMITTING BY THE UNDERGROUND FIRE LINE CONTRACTOR. CIVIL REHVIEW DOES NOT REVIEW OR APPROVE UNDERGROUND FIRE LINES FOR THE FIRE PROTECTION SYSTEMS.

WASTEWATER TREATMENT PLANTS

H.C. WWTP REVIEW:
IS THE PROPOSED PROJECT A NEW WWTP SITE OR A REHAB/EXPANSION OF AN EXISTING WWTP SITE? YES ☐ NO ☐
IF YES, IS A HARRIS COUNTY DOMESTIC WASTEWATER TREATMENT PLANT EXPRES REVIEW SHEET ATTACHED AND COMPLETED ACCORDING TO INSTRUCTIONS? YES ☐ NO ☐
REFER TO:
WWW.ENG.HCTX.NET/PERMITS/WASTEWATER/REGULATIONS-STANDARDS-DETAILS FOR DOMESTIC WWTP ERS FORM

10. PERMITS REQUIRED

DOES THE PROPERTY HAVE ANY VIOLATIONS? IF SO PLEASE PROVIDE ALL VIOLATION NUMBERS. NO

☒ STORM WATER QUALITY
☐ SEPTIC (EXISTING) ☐ SEPTIC (PROPOSED)
☒ CIVIL SITE WORK (PHASE II PERMIT CLASS I (non-floodplain))
☐ CIVIL SITE WORK (PHASE II PERMIT CLASS II (floodplain))
☒ DRIVEWAY WITH CULVERT __1___ CURB AND GUTTER __1___
☒ BUILDING PERMITS (NO. OF BUILDINGS = ___1___) ☒ CRITICAL FACILITY
☐ SUBDIVISION INFRASTRUCTURE PHASE II (NO. OF LOTS = _____)
☒ NOTICE OF DETENTION AFFIDAVIT REQUIRED
☐ MUD MAINTENANCE AGREEMENT REQUIRED
NOTES: _____

WORK IN HARRIS COUNTY R.O.W.
☐ UTILITY WORK _____
☒ TURN LANE ___ LEFT TURN LANE TO SERVE PHASE 2 OF HARMONY SCHOOL __
☐ OTHER CONSTRUCTION _____

NOTES:
A PERMIT IS REQUIRED FOR EACH SCOPE OF WORK ON SITE.
A R.O.W. NOTIFICATION IS REQUIRED FOR EACH SCOPE OF WORK IN HC OR HCFCD ROW.
REFER TO www.eng.hctx.net/permits FOR EACH SCOPE OF WORK IN HC OR IN HCFCD ROW.

*NOTE:
ACCORDING TO AS-BUILT DRAWINGS FOR SPRING STUEBNER ROAD, SECTION C, DATED APRIL 2012, A 4' X 2' BOX CULVERT DOWNSTREAM OF THE HARMONY CITY PLACE DEVELOPMENT WAS THE LIMITING FACTOR IN DETERMINING THE ALLOWABLE OUTFALL TO THE ROADSIDE DITCH AND SUBSEQUENTLY THE CULVERT ITSELF. THIS CULVERT WAS DETERMINED TO HAVE A CAPACITY OF 28.5 CFS, PER THE AS-BUILT DRAWINGS. THE HARMONY CITY PLACE TRACT COMPRISES ONE-THIRD OF THE OVERALL CONTRIBUTING AREA OF THIS CULVERT. AS SUCH, THE PRO-RATA SHARE OF THE CULVERT CAPACITY DEDICATED TO HARMONY CITY PLACE IS 9.5 CFS. NOTE THAT THIS ALLOWABLE RELEASE RATE IS SIGNIFICANTLY LESS THAN THE ACTUAL EXISTING CONDITION FLOW RATE FROM THE SUBJECT TRACT.*

BENCHMARK REQUIREMENTS FOR PROPOSED BRIDGES AND OR NEW RESIDENTIAL SUBDIVISIONS

When the County Engineer has determined that a new benchmark will be required to be established for the proposed project, the developer shall be required to install a benchmark per section 8.0, part 2 of the Harris County Infrastructure Regulations.

Is a new Benchmark required for this project? (*to be determined by Harris County*) [ ] yes [x] no

If a new Benchmark is required, the proposed benchmark information is shown on sheets ____

6. STORMWATER QUALITY

I. SWPPP: CONSTRUCTION MEASURES. (Complete for ALL projects)
☐ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S)_____
☒ DISTURBS <1AC. N/A

II. APPLICABILITY FOR PERMANENT FEATURES. (must be completed on all projects)
EXEMPT NEW DEVELOPMENT:
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (must be verified with plat)
EXEMPT REDEVELOPMENT:
☒ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A, Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)
EXEMPT GRANDFATHERED:
☐ PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)
GENERAL:
☒ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: HARRIS COUNTY
☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE: _____
HARRIS COUNTY PROJECT NO._____ & SWQ PERMIT NO. _____
STORMWATER QUALITY MANAGEMENT PLAN:
☐ SITE PLAN ON SHEET(S) _____

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)
☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
☐ POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
☐ HYDRODYNAMIC TYPE SEPARATOR MODEL: _____
☐ OTHER(S): _____

7. FLOOD PLAIN STATUS

I. GENERAL INFORMATION
FIRM PANEL(S) FOR PROPERTY: 48201C0255L
FIRM PANEL(S) DATE: JUNE 18, 2007
STATUS OF PROPERTY ON MAP
☒ ENTIRELY LOCATED IN UNSHADED ZONE "X"
☐ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____) (0.2% BASE FLOOD LEVEL_____)
☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET_____
ELEVATION INFORMATION
BENCHMARK USED
☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT *(2001 ADJ.)* 100315

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION
☐ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL).
A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
BELOW 0.2% BASE FLOOD ELEVATION _____ (2001 ADJ.) _____ CUBIC YARDS
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:
BELOW 0.2% BASE FLOOD ELEVATION _____ (2001 ADJ.) _____ CUBIC YARDS
C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET _____

IV. ☐LOMR REQUIRED ☐CLOMR REQUIRED VERIFIED BY: VC

8. CURB RAMPS

A. ARE CURB RAMPS THAT CONNECT TO PUBLIC STREETS PROPOSED IN THIS SET OF PLANS? [ ] YES [x] NO

9. LANDSCAPING

☐ REQUIRED AND SHOWN ON SHEET(S) _____
☒ NOT REQUIRED

FOR PROJECTS LOCATED IN ANY FLOODPLAIN

Development constructed or placed in accordance with these plans will comply with all provisions of the Regulations of Harris County, Texas for Floodplain Management.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

FOUNDATION NOTES: (*Applies to only buildings or building additions requiring a class II permit*)

All water heaters, furnaces, air conditioning units, electrical distribution panels, and any other mechanical or electrical equipment must be elevated in accordance with Section 4.05 of Harris County Floodplain regulations.
Any electrical circuit serving a light switch or outlet located below the base (100-year) flood elevation shall be dropped from above and be on a separate breaker.
All materials used below the (100-year) base flood elevation are on approved FEMA Technical Bulletin 2-08 as Class 5 water-resistant, and approved in accordance with FEMA Technical Bulletin 1-08 for foundation openings.
Critical facilities located in the 0.2% or 500yr floodplain or 1% or 100yr floodplain shall have the lowest floor elevated to 3 feet or more above the 0.2% flood elevation, or 24 inches above the crown of the adjacent road, which ever results in a higher elevation.
Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters.
Access routes elevated to or above the level of the base flood shall be provided to all critical facilities to the extent possible.
A completed as-built certificate must be submitted after the structure is complete and before it is occupied.
The County Engineer's Office will post a final inspection notice on the structure once all requirements have been met.
No fill may be used to elevate structures in the 1% or 100yr flood plain. Structures may be constructed on an open foundation, such as piers, or on continuous foundation walls with properly sized and located openings. All foundations are required to be designed by a registered professional engineer.
All structures shall be designed to withstand a three second gust basic wind speed of 120mph.
*Completed **Elevation Certificates** to be submitted: one at permitting, a second after the slab is poured or sub-floor is installed and before the framing starts, and a third is required once construction is finished. *(PER CURRENT FIRM PANEL) to the Harris County Engineering Department, 10555 Northwest Freeway, Suite 120, Houston, TX 77092*

HARRIS COUNTY ENGINEERING DEPARTMENT - PERMIT OFFICE NOTE:

THE PERMIT MANAGER SIGNATURE REPRESENTS THE FOLLOWING:
- THE COMPLETION OF REVIEW OF THESE PLANS
- INTERPOSE NO OBJECTION TO THE PROPOSED DESIGN ON PRIVATE PROPERTY
- APPROVAL OF WORK IN HARRIS COUNTY MAINTAINED RIGHT OF WAY
- APPROVAL OF WORK IN PROPOSED HARRIS COUNTY RIGHT OF WAY THAT IS TO BE ACCEPTED BY THE COUNTY

HCED SIGNATURE BLOCK:

Darrell Hahn, P.E., C.F.M.
Manager – Harris County Permits
Compliance with federal, state and local laws, codes, and regulations is required upon completion of construction.

2026-06-12 08:27:29

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, MICHAEL F.A. MAZZOLA, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE. I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS IN THEIR ENTIRETY ARE DESIGNED PER THE HARRIS COUNTY ENGINEERING STANDARDS, REGULATIONS, AND GUIDELINES UNLESS PROVIDED A VARIANCE BY THE COUNTY ENGINEER OR HIS DESIGNEE. SHOULD IT BE DEEMED BY HCED STAFF, THAT THE PLANS DO NOT MEET THE COUNTY'S STANDARDS, REGULATIONS AND GUIDELINES AND DID NOT RECEIVE AN APPROVED VARIANCE, THE APPROVAL OF SAID PLANS BECOMES NULL AND VOID AND THE DESIGN PLANS MUST BE CORRECTED AT NO CHARGE TO THE COUNTY.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 8

SIGNATURE Michael Mazzola DATE 06/10/2026

SEAL: STATE OF TEXAS – MICHAEL F.A. MAZZOLA – 117109 – LICENSED PROFESSIONAL ENGINEER

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C. APPROVED DATE

HC PROJECT NO. 2602180057 HCFCD PROJECT NO. 2602180062 SHEET NUMBER 3 OF 8

HARRIS COUNTY
ENGINEERING DEPARTMENT
REVIEW SHEET

VERSION 20.0 MAY 27, 2020

HARRIS COUNTY ENGINEERING REVIEW SHEET **3**

GENERAL NOTES:

1. BOUNDARY INFORMATION SUPPLIED BY COBB, FENDLEY & ASSOCIATES, INC.
2. ELEVATION SURVEY INFORMATION SUPPLIED BY COBB, FENDLEY & ASSOCIATES, INC.

3. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY ALL GOVERNING AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT PRIOR TO STARTING CONSTRUCTION. (A) CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION, WHEN APPLICABLE. (B) CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING UTILITY AND/OR CULVERT CONSTRUCTION WITHIN HARRIS COUNTY ROAD RIGHT OF WAY, WHEN APPLICABLE. (C) CONTRACTOR SHALL NOTIFY TxDOT A MINIMUM 72 HRS. PRIOR TO CONSTRUCTING WITHIN TxDOT R.O.W. TO SCHEDULE REQUIRED INSPECTIONS, REFER TO TxDOT DRIVEWAY APPROACH PERMIT FOR DETAILS, WHEN APPLICABLE.

4. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL THE CONTRACTOR PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

5. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS ON THE SITE USING THE PROJECT TBM PROVIDED ON THE CONSTRUCTION PLANS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

6. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL PROPOSED "POINTS OF CROSSING" TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY ENGINEER AT 713-462-3242 AT ONCE OF ANY CONFLICTS. THE CONTRACTOR SHALL NOT MAKE ANY FIELD MODIFICATIONS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. THIS APPROVAL MUST BE OBTAINED BEFORE RESUMING ANY CONSTRUCTION IN THE AFFECTED AREA.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

8. AT LEAST 48 HOURS PRIOR TO EXCAVATING, AND/OR AUGURING IN PUBLIC RIGHT-OF-WAY OR EASEMENTS, CONTRACTOR SHALL NOTIFY "TEXAS ONE-CALL SYSTEM" AT 1-800-245-4545 TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITY LINES.

9. ALL CLEARING, GRUBBING, STRIPPING, EXCAVATION, FILL, COMPACTION, PAVEMENT AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.

10. DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM MATERIALS TESTING DURING THE CONSTRUCTION.

11. CONTRACTOR SHALL COMPLY WITH ALL CURRENT AND APPLICABLE OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, TRENCHING AND SHORING.

12. CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY LINES. ALL EXISTING UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN AT THE APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD DETERMINE THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND MAINTAIN THESE UNDERGROUND UTILITIES.

13. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

14. WHERE CONCRETE CURB OR WALK IS INDICATED, ELEVATION SHALL BE 6-INCHES ABOVE TOP OF PAVEMENT ELEVATION SHOWN. COORDINATE WITH ARCHITECTURAL SITE PLAN.

15. THE WORK AREA SHALL BE BARRICADED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.

16. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET APPROPRIATE REQUIREMENTS ESTABLISHED IN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY & HEALTH REGULATIONS, 29 CFR 1926, SUBPART P - EXCAVATIONS, TRENCHING AND SHORING, AND OSHA'S PROPOSED STANDARDS ON TRENCHING, EXCAVATION PUBLISHED IN VOLUME 52, NO. 72 OF THE FEDERAL REGISTER, APRIL 15, 1987, PAGES 12288-12339, SHOULD THE REFERENCED OSHA STANDARDS BE MODIFIED OR AMENDED, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

17. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS SHOWN.

18. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES, WHEN REQUIRED, IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.

19. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF AND MOVED, CALL HL&P AT 713-207-7777.

20. CAUTION: UNDERGROUND GAS FACILITIES
CENTERPOINT ENERGY, ENTEX MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST IN STREET RIGHT-OF-WAY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

21. THE LOCATIONS OF AT&T UTILITIES ARE SHOWN IN AN APPROXIMATE AREA. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

22. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, TREES, ETC., WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT.

23. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. CARE SHOULD BE TAKEN BY THE CONTRACTOR NOT TO INCREASE THESE FINISHED GRADES WITH LANDSCAPING OR OTHER ALTERATIONS. THE THICKNESS OF SOD, GRASS AND LANDSCAPING MATERIALS SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS IN THESE PLANS IN ORDER TO DETERMINE THE GROUND ELEVATIONS DURING CONSTRUCTION.

24. DURING THE CONSTRUCTION OF THESE IMPROVEMENTS, ANY INTERPRETATION OF THIS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY MATTER WHICH REQUIRES THE APPROVAL OF THE OWNER MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES. ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE WHICH ARE MADE DURING THE BIDDING PHASE WILL HAVE NO BEARING ON THE DECISION.

25. REFER TO SITE PLAN FOR HORIZONTAL DIMENSIONS.

26. THE CONTRACTOR SHALL NOT USE THE DIMENSIONS ON THE DIMENSIONED CONTROL PLAN FOR BIDDING PURPOSES.

PAVING AND STRIPING NOTES

1. PAVEMENT DESIGN AND SOIL PREPARATION RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT SHALL BE ADHERED TO FOR BOTH MATERIALS AND PRACTICE OF INSTALLATION.

2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS" MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.) AND CITY STANDARDS.

3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, ROADWAY LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AS SHOWN ON THE PLANS.

4. ALL JOINTS SHALL EXTEND THROUGH THE CURB.

5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.

7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.

8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER.

9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.

10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. & T.A.S) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT, UNLESS A HANDRAIL IS INDICATED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.

11. DO NOT UNLOAD OR USE ANY HEAVY CONSTRUCTION EQUIPMENT ON NEW CONCRETE FOR AT LEAST 7 DAYS AFTER CONCRETE IS POURED.

12. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK SUCH THAT UTILITIES ARE INSTALLED PRIOR TO PAVEMENT BASE BEING INSTALLED.

13. ALL CONCRETE PAVING AND FLATWORK SHALL BE CURED IN CONFORMANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES.

14. NO VEHICULAR TRAFFIC IS ALLOWED ON CONCRETE REINFORCEMENT UNTIL PAVEMENT IS POURED AND CURED.

15. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TEMPORARY CLOSURE OF ANY PUBLIC ROADWAY TO FACILITATE CONSTRUCTION OF NEW PARCEL DRIVEWAY/CURBCUT, INCLUDING BUT NOT LIMITED TO: PERMITTING, TEMPORARY TRAFFIC SIGNS, TRAFFIC BLOCKAGE; COORDINATION/APPROVAL FROM LOCAL TRAFFIC ENGINEER, ETC.

CONSTRUCTION NOTES:

1. PRIOR TO ANY CONSTRUCTION A PRE-CONSTRUCTION MEETING MUST BE HELD WITH BGE (KEVIN CUNNINGHAM, 832-782-8807) AND SI ENVIRONMENTAL (MARY HLAVACEK, 832-490-1610). PLEASE CONTACT THOSE INDIVIDUALS TO SCHEDULE THIS MEETING.

2. SEWER AND WATER CONNECTIONS AND FEES ARE HANDLED BY SI ENVIRONMENTAL (MARY HLAVACEK, 832-490-1610). PRIOR TO ANY CONNECTION A RESERVATION OF CAPACITY IS REQUIRED TO BE GRANTED BY HARRIS COUNTY MUD NO. 171. BGE (KEVIN CUNNINGHAM, 832-782-8807) HANDLES THE OBSERVATION OF THE STORM DRAINAGE CONNECTIONS.

3. ANY DISTURBANCE OF OR DAMAGE TO EXISTING HARRIS COUNTY MUD NO. 171 OR HARRIS COUNTY MUD NO. 458 FACILITIES OR UNAUTHORIZED CONNECTIONS THERETO MAY RESULT IN A STOPPAGE OF WORK, UNCOVERING, REPAIR, OR REPLACEMENT OF THOSE FACILITIES.

GRADING NOTES

1. CONTRACTOR SHALL ENSURE THAT CONSTRUCTED SLOPES AND ELEVATIONS COMPLY WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION REQUIREMENTS FOR ACCESSIBILITY. GRADES SHOWN HEREON HAVE BEEN CAREFULLY SELECTED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS. THE FOLLOWING SHALL BE CONSIDERED DURING CONSTRUCTION.

2. TOP OF WALK OR TOP OF LANDING ELEVATIONS AT BUILDING ENTRANCES/EXITS SHALL BE 1/4" MAXIMUM BELOW FINISHED FLOOR ELEVATION.

3. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. CARE SHOULD BE TAKEN BY THE CONTRACTOR NOT TO INCREASE THESE FINISHED GRADES WITH LANDSCAPING OR OTHER ALTERATIONS. THE THICKNESS OF SOD, GRASS AND LANDSCAPING MATERIALS SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS IN THESE PLANS IN ORDER TO DETERMINE THE GROUND ELEVATIONS DURING CONSTRUCTION.

4. ALL PROPOSED TOP OF CURB ELEVATIONS SHALL BE 6" ABOVE TOP OF PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.

5. ALL PAVEMENT SHOWN ON THIS PLAN TO HAVE 6" CURBING AT EDGES OF PAVEMENT UNLESS OTHERWISE NOTED.

6. CONTRACTOR SHALL REMOVE TOP 4" OF SOIL COVER FROM PROPOSED AREAS FOR PAVEMENT AND BUILDING. STRIPPED SOIL SHALL BE STOCKPILED.

7. CONTRACTOR SHALL REMOVE TOP 4" OF SOIL COVER AND PLACED PER NOTE 8. REMAINING SOIL TO BE REMOVED FROM SITE PAVEMENT AND BUILDING AREAS SHALL BE STOCKPILED SEPARATELY.

8. STRIPPINGS STOCKPILE AND SOIL STOCKPILE ABOVE SHALL BE COMPRISED OF SOIL ONLY. NO CONCRETE, LIMBS, PAPER, WOOD, OR OTHER MISCELLANEOUS DEBRIS OR CONSTRUCTION WASTE MAY BE PLACED IN EITHER STOCKPILE.

9. AREAS INDICATED AS GRADE TO DRAIN SHALL HAVE A MINIMUM SLOPE OF 1% TOWARDS AN INLET OR SWALE.

10. THE CONTRACTOR SHALL VERIFY THAT SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES, MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE. IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER, PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.

11. ALL PROPOSED CONTOURS, WHERE APPLICABLE, ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.

12. SIDEWALKS ADJACENT TO THE PROPOSED BUILDING SHALL HAVE A CROSS SLOPE OF 2% AWAY FROM THE BUILDING UNLESS INDICATED OTHERWISE ON THE GRADING PLAN.

13. ALL AREAS TO BE FILLED SHALL BE DONE WITH CLEAN SUITABLE MATERIAL COMPACTED IN 6 INCH LIFTS TO 98% DENSITY AS DETERMINED BY AASHTO T-180 IF GEOTECHNICAL REPORT DOES NOT SPECIFY.

14. ALL FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.

15. ALL SLOPES STEEPER THAN 3:1 SHALL BE OVERLAIN WITH CURLEX BLANKET AND SYSTEM ANCHORED PER MANUFACTURERS RECOMMENDATIONS, OR SHALL BE SODDED IF INDICATED ON GRADING PLAN OR SWPPP.

16. ALL AREAS DISTURBED SHALL BE RESTORED AND GRADED TO DRAIN.

FRANCHISE UTILITIES

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 945-8036 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATED THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE A PERSON OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 (TEN) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY
NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769.

WARNING: AT&T TEXAS/SWBT FACILITIES

1. THE LOCATION OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T/SWBT FACILITIES.

4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

5. THE PRESENCE OR ABSENCE OF OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOW ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.

6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713) 567-4552 OR EMAIL HIM AT **rl7259@att.com,** IF THERE ARE ANY QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUT AT&T TEXAS/SWBT FACILITIES.

H.C.I.D. 18 NOTES

1. ALL FACILITIES EXCEPT THOSE CONSTRUCTED FOR THE DISTRICT WILL BE OWNED, OPERATED AND MAINTAINED BY THE PROJECT OWNER OR THEIR SUCCESSORS IN TITLE.

2. CONNECTIONS TO THE DISTRICT'S FACILITIES WILL BE MADE BY THE DISTRICT OPERATOR AT THE OWNER'S EXPENSE.

3. ALL WATER METERS AND BACKFLOW PREVENTERS WILL COMPLY WITH THE DISTRICT RATE ORDER.

4. THE PROPERTY OWNER, OR THEIR AGENTS, ARE RESPONSIBLE FOR ANY DAMAGES TO THE DISTRICT'S FACILITIES, PROPERTY OR EASEMENTS AND MUST PAY THE DISTRICT'S COST FOR MAKING REPAIRS. THE DISTRICT RESERVES THE RIGHT TO REPAIR DAMAGE TO THE DISTRICT'S FACILITIES, PROPERTY OR EASEMENTS WITHOUT PRIOR NOTICE, AND TO ASSESS AGAINST THE PROPERTY OWNER SUCH COSTS, INCLUDING ATTORNEY'S FEES, AND PENALTIES AS PROVIDED FOR IN THE DISTRICTS RATE ORDER.

5. ALL WORK INSIDE DISTRICT ROW AND/OR EASEMENT MUST NOTIFY DISTRICT MIN. 48 HOURS PRIOR TO BEGINNING WORK.

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CALL BEFORE YOU DIG !
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST – STOP CALL
Texas One Call System
1-800-545-6005

SWPPP CONSTRUCTION NOTES

1. PRIOR TO CONSTRUCTION, MAKE CERTAIN THE NOTICE OF INTENT (NOI) OR CONSTRUCTION SITE NOTICE (CSN) HAS BEEN FILED AND POSTED ONSITE FOR PUBLIC VIEWING AND THE TPDES REPORT AND SWPPP ARE AVAILABLE AT THE TRAILER.

2. INSTALL STORM WATER POLLUTION PREVENTION CONTROLS PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, EXCAVATION).

3. THE PLACEMENT OF STORM WATER POLLUTION PREVENTION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED STORM WATER POLLUTION PREVENTION CONTROL PLAN.

4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR AND ENGINEER AFTER INSTALLATION OF THE STORM WATER POLLUTION PREVENTION CONTROLS AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK IF REQUIRED.

5. THE PLACEMENT OF STORM WATER POLLUTION PREVENTION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED STORM WATER POLLUTION PREVENTION CONTROL PLAN.

6. DURING EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

7. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE ENGINEER AS APPROPRIATE. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE STORM WATER POLLUTION PREVENTION CONTROL PLAN MAY BE REQUIRED BY THE ENGINEER DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.

8. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

9. WHERE SILT FENCE CANNOT BE PROPERLY INSTALLED, USE TRIANGULAR FILTRATION DIKE OR HAY BALES.

10. PRIOR TO FINAL ACCEPTANCE BY THE GOVERNING JURISDICTION, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF PROPERLY.

11. SOIL DISTURBANCES SHALL BE MINIMIZED BY EXPOSING ONLY THE SMALLEST PRACTICAL AREA OF LAND REQUIRED FOR THE CLEARING AND GRADING ACTIVITY AND FOR THE CONSTRUCTION ACTIVITY, FOR THE SHORTEST PRACTICAL PERIOD OF TIME.

12. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND EXCEPT AS PROVIDED BELOW, WILL BE INITIATED NO MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

13. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN TWENTY-ONE (21) DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.

14. TRAFFIC LEAVING THE CONSTRUCTION SITE WILL EXIT THROUGH A STABILIZED CONSTRUCTION EXIT AS LOCATED ON THE PLANS. WHEN SOILS HAVE COLLECTED ON THE STABILIZED VEHICULAR EXIT TO AN EXTENT WHICH REDUCES ITS INTENDED EFFECTIVENESS, THE SURFACE WILL BE CLEANED AND REESTABLISHED FOR THE INTENDED PURPOSE.

15. MUD/DIRT INADVERTENTLY TRACKED OFF-SITE AND ONTO PUBLIC STREETS SHALL BE REMOVED IMMEDIATELY.

16. THE EPA GENERAL PERMIT REQUIRES THAT A TEMPORARY OR PERMANENT SEDIMENT BASIN BE INSTALLED IN ANY DRAINAGE LOCATION WHERE MORE THAN 10 ACRES IN THE UPSTREAM DRAINAGE ARE DISTURBED AT ONE TIME. THE SEDIMENT BASIN MUST PROVIDE AT LEAST 3,600 CUBIC FEET OF STORAGE FOR EVERY ACRE IF LAND, WHICH IT DRAINS.

17. CONTRACTOR'S FILING OF NOTICE OF TERMINATION (NOT) SHALL OCCUR UPON OWNER'S/DEVELOPER'S ACCEPTANCE OF REVEGETATION.

18. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY AND PERMANENT STORM WATER POLLUTION PREVENTION CONTROL MEASURES SHOWN IN THE PLANS. CONSTRUCT IMPROVEMENTS IN COMPLIANCE WITH THE INTENT OF SUCH POLLUTION CONTROL MEASURES, TPDES PERMITS, OR OTHER LOCAL WATERWAY DEVELOPMENT PERMITS.

19. CONTRACTOR IS RESPONSIBLE FOR ALL POLLUTION PREVENTION MEASURES SHOWN IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

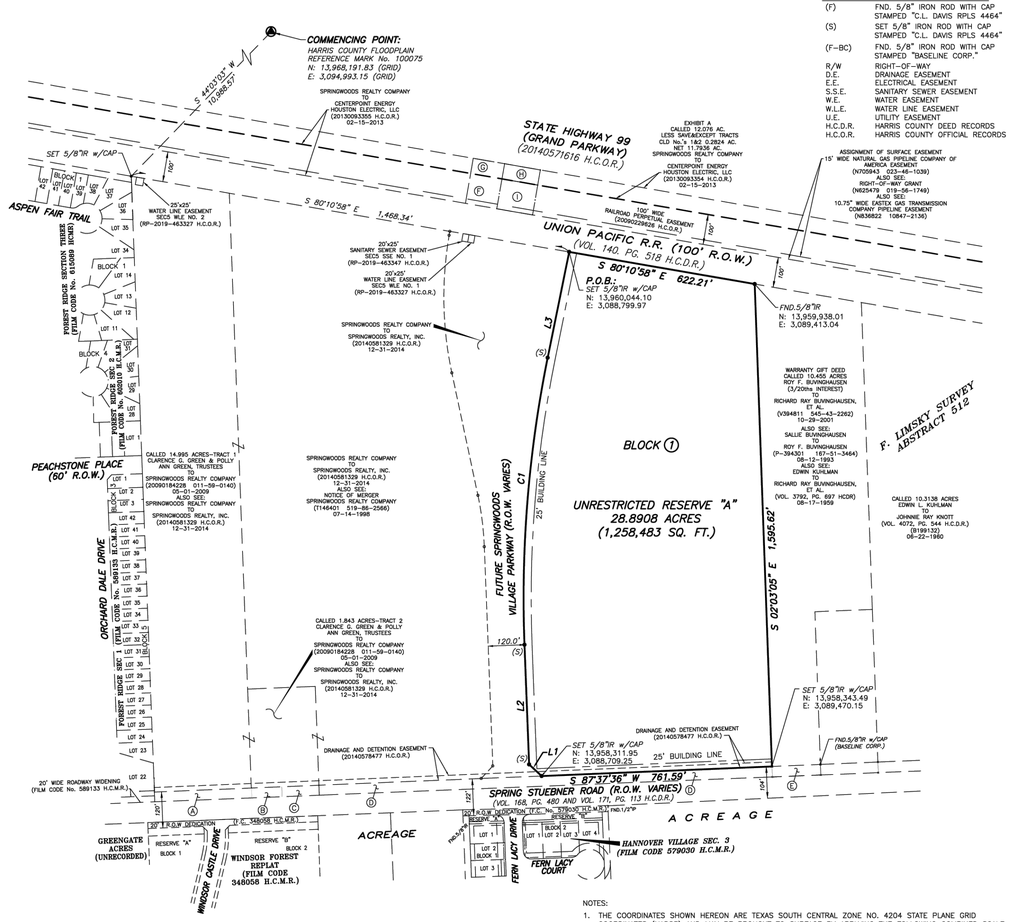
20. SUBMIT A STORM WATER TPDES GENERAL PERMIT NOTICE OF INTENT (NOI) AT LEAST TWO DAYS PRIOR TO START OF CONSTRUCTION TO THE APPROPRIATE AGENCY SHOWN ON THE SWPPP.

21. POST SIGNED AND COMPLETED NOI POSTING NOTICE OR CONSTRUCTION SITE NOTICE (CSN) AT CONSTRUCTION ENTRANCE FOR PUBLIC VIEWING, AND KEEP A COPY OF THE SWPPP AT THE JOB SITE AT ALL TIMES.

22. INSTALL AND MAINTAIN POLLUTION CONTROL MEASURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND WITH PROJECT SPECIFICATIONS.

23. INSTALL EROSION CONTROL MEASURES AND CONSTRUCTION ENTRANCES AS SHOWN IN THE SWPPP PRIOR TO BEGINNING CONSTRUCTION. POLLUTION CONTROL MEASURES SHALL BE REPAIRED, RESTABLISHED, ADJUSTED OR REINSTALLED WITH EACH SUBSEQUENT PHASE OF CONSTRUCTION IN ACCORDANCE WITH THE SWPPP.

24. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND / OR CULVERTS FOR UNOBSTRUCTED DRAINAGE



LINE	BEARING	DISTANCE
L1	N 47°18'10" W	56.54'
L2	N 02°12'44" W	395.68'
L3	N 11°27'17" E	356.84'

CURVE	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	4,000.00'	13°40'00"	954.12'	N 04°37'16" E	951.86'

DEED TABLE

(A) TRACT 13-CALLED 0.2392 ACRE SPRINGWOODS REALTY COMPANY TO COUNTY OF HARRIS (20110067480 078-16-1483) 02-08-2011	(C) TRACT 15-CALLED 0.0925 ACRE SPRINGWOODS REALTY COMPANY TO COUNTY OF HARRIS (20110067480 078-16-1483) 02-08-2011	(E) TRACT 17-CALLED 0.1270 ACRE ROAD EASEMENT ROY F. BUWINGHAUSEN, ET AL. TO COUNTY OF HARRIS (20110061477 078-10-0971) 01-31-2011	(H) CLD No.1 SAVE&EXCEPT CALLED 0.1401 AC. (20130093354 H.C.O.R.)
(B) TRACT 14-CALLED 0.0750 ACRE SPRINGWOODS REALTY COMPANY TO COUNTY OF HARRIS (20110067480 078-16-1483) 02-08-2011	(D) TRACT 16-CALLED 0.158 ACRES SPRINGWOODS REALTY COMPANY TO COUNTY OF HARRIS (20110067480 078-16-1483) 02-08-2011	(F) CLD No.3 70' WIDE UTILITY EASEMENT (20130093355 H.C.O.R.) (G) CLD No.4 70' WIDE UTILITY EASEMENT (20130093354 H.C.O.R.)	(I) CLD No.5 SAVE&EXCEPT CALLED 0.2760 AC. (20130093353 H.C.O.R.)

ABBREVIATIONS

(F)	FND. 5/8" IRON ROD WITH CAP STAMPED "C.L. DAVIS RPLS 4464"
(S)	SET 5/8" IRON ROD WITH CAP STAMPED "C.L. DAVIS RPLS 4464"
(F-BC)	FND. 5/8" IRON ROD WITH CAP STAMPED "BASELINE CORP."
R/W	RIGHT-OF-WAY
D.E.	DRAINAGE EASEMENT
E.E.	ELECTRICAL EASEMENT
S.S.E.	SANITARY SEWER EASEMENT
W.E.	WATER EASEMENT
W.L.E.	WATER LINE EASEMENT
U.E.	UTILITY EASEMENT
H.C.D.R.	HARRIS COUNTY DEED RECORDS
H.C.O.R.	HARRIS COUNTY OFFICIAL RECORDS

NOTES:

1. THE COORDINATES SHOWN HEREON ARE TEXAS SOUTH CENTRAL ZONE NO. 4204 STATE PLANE GRID COORDINATES (NAD83) AND MAY BE BROUGHT TO SURFACE BY APPLYING THE FOLLOWING COMBINED SCALE FACTOR OF 0.99995325OB. COORDINATES SHOWN ARE GRID.
2. (F) INDICATES A FOUND 5/8" IRON ROD WITH CAP STAMPED "C.L. DAVIS RPLS 4464".
3. ALL FOUND AND SET CAPPED 5/8" IRON RODS ARE STAMPED "C.L. DAVIS RPLS 4464", UNLESS OTHERWISE NOTED.
4. R.O.W. INDICATES PUBLIC STREET RIGHT-OF-WAY.
5. SITE DRAINAGE PLANS FOR THE FUTURE DEVELOPMENT OF THIS RESERVE MUST BE SUBMITTED TO THE HARRIS COUNTY FLOOD CONTROL DISTRICT AND THE HARRIS COUNTY ENGINEERING DEPARTMENT.
6. THIS PLAT REQUIRES COMPLIANCE WITH LANDSCAPING REQUIREMENTS PRIOR TO OCCUPANCY OF STRUCTURES AS MANDATED IN "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE".
7. THE PROPERTY IS SUBJECT TO THE DECLARATION OF ARCHITECTURAL, HEIGHT AND USE RESTRICTIONS RECORDED ON DECEMBER 16, 2008 UNDER CLERK'S FILE NO. 20080602411 (AS AMENDED), WHICH REQUIRES COMPLIANCE WITH THE DESIGN GUIDELINES (AS DEFINED THEREIN). THE DESIGN GUIDELINES REQUIRE THAT A TREE PRESERVE BE MAINTAINED.
8. ABSENT WRITTEN AUTHORIZATION BY THE AFFECTED UTILITIES, ALL UTILITY AND AERIAL EASEMENTS MUST BE KEPT UNOBSTRUCTED FROM ANY NON-UTILITY IMPROVEMENTS OR OBSTRUCTIONS BY THE PROPERTY OWNER. ANY UNAUTHORIZED IMPROVEMENTS OR OBSTRUCTIONS MAY BE REMOVED BY ANY PUBLIC UTILITY AT THE PROPERTY OWNER'S EXPENSE. WHILE WOODEN POSTS AND PANELED WOODEN FENCES ALONG THE PERIMETER AND BACK TO BACK EASEMENTS AND ALONGSIDE REAR LOTS LINES ARE PERMITTED, THEY TOO MAY BE REMOVED BY PUBLIC UTILITIES AT THE PROPERTY OWNER'S EXPENSE SHOULD THEY BE AN OBSTRUCTION. PUBLIC UTILITIES MAY PUT SAID WOODEN POSTS AND PANELED WOODEN FENCES BACK UP, BUT GENERALLY WILL NOT REPLACE WITH NEW FENCING.
9. UNLESS OTHERWISE INDICATED, THE BUILDING LINE (B.L.), WHETHER ONE OR MORE, SHOWN ON THIS SUBDIVISION PLAT ARE ESTABLISHED TO EVIDENCE COMPLIANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 42, CODE OF ORDINANCES, CITY OF HOUSTON, TEXAS, IN EFFECT AT THE TIME THIS PLAT WAS APPROVED, WHICH MAY BE AMENDED FROM TIME TO TIME.
10. ANY NEW DEVELOPMENT WITHIN THE SUBDIVISION PLAT SHALL OBTAIN A STORM WATER QUALITY PERMIT BEFORE THE ISSUANCE OF ANY DEVELOPMENT PERMITS.

STATE OF TEXAS
COUNTY OF HARRIS

We, Springwoods Realty, Inc. acting by and through Keith D. Simon, Vice President, being an officer of Springwoods Realty Inc., owner (or owners) hereinafter referred to as Owners (whether one or more) of the 28.8908 acres tract described in the above and foregoing map of SPRINGWOODS VILLAGE DISTRICT SEC 6, do hereby make and establish said subdivision and development plan of said property according to all lines, dedications, restrictions, and notations on said maps or plat and hereby dedicate to the use of the public forever, all streets (except those streets designated as private streets, or permanent access easements), alleys, parks, water courses, drains, easements and public places shown thereon for the purposes and considerations therein expressed; and do hereby bind ourselves, our heirs, successors and assigns to warrant and forever defend the title on the land so dedicated.

FURTHER, Owners have dedicated and by these presents do dedicate to the use of the public for public utility purpose forever unobstructed aerial easements. The aerial easements shall extend horizontally an additional eleven feet, six inches (11' 6") for ten feet (10' 0") perimeter ground easements or seven feet, six inches (7' 6") for fourteen feet (14' 0") perimeter ground easements or five feet, six inches (5' 6") for sixteen feet (16' 0") perimeter ground easements, from a plane sixteen feet (16' 0") above the ground level upward, located adjacent to and adjoining said public utility easements that are designated with aerial easements (U.E. and A.E.) as indicated and depicted hereon, whereby the aerial easement totals twenty one feet, six inches (21' 6") in width.

FURTHER, Owners have dedicated and by these presents do dedicate to the use of the public for public utility purpose forever unobstructed aerial easements. The aerial easements shall extend horizontally an additional ten feet (10' 0") for ten feet (10' 0") back-to-back ground easements, or eight feet (8' 0") for fourteen feet (14' 0") back-to-back ground easements or seven feet (7' 0") for sixteen feet (16' 0") back-to-back ground easements, from a plane sixteen feet (16' 0") above ground level upward, located adjacent to both sides and adjoining said public utility easements that are designated with aerial easements (U.E. and A.E.) as indicated and depicted hereon, whereby the aerial easement totals thirty feet (30' 0") in width.

FURTHER, Owners do hereby covenant and agree that all of the property within the boundaries of this plat is hereby restricted to prevent the drainage of any septic tanks into any public or private street, permanent access easement, road or alley, or any drainage ditch, either directly or indirectly.

FURTHER, Owners do hereby dedicate to the public a strip of land fifteen feet (15' 0") wide on each side of the center line of any and all bayous, creeks, gullies, ravines, draws, sloughs or other natural drainage courses located in said plat, as easements for drainage purposes, giving the City of Houston, Harris County, or any other governmental agency, the right to enter upon said easement at any and all times for the purpose of construction and maintenance of drainage facilities and structures.

FURTHER, Owners do hereby covenant and agree that all of the property within the boundaries of this plat and adjacent to any drainage easement, ditch, gully, creek or natural drainage way shall hereby be restricted to keep such drainage ways and easements clear of fences, buildings, planting and other obstructions to the operations and maintenance of the drainage facility and that such abutting property shall not be permitted to drain directly into this easement except by means of an approved drainage structure.

FURTHER, Owners certify and covenant that they have complied with or will comply with existing Harris County Road Law, Section 31-C as amended by Chapter 614, Acts of 1973, 63rd Legislature and all other regulations heretofore on file with the Harris County Engineer and adopted by the Commissioners' Court of Harris County.

IN TESTIMONY WHEREOF, the Springwoods Realty, Inc., has caused these presents to be signed by Keith D. Simon, its Vice President, thereunto authorized, this_____ day of_____2022.

By: _____
Keith D. Simon, Vice President
Springwoods Realty, Inc.

STATE OF COLORADO
COUNTY OF DOUGLAS

BEFORE ME, the undersigned authority, on this day personally appeared, Keith D. Simon, as Vice President of Springwoods Realty, Inc. known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS _____, DAY OF _____, 2022.

_____
Notary Public in and for
The State of Colorado
My Commission Expires:_____

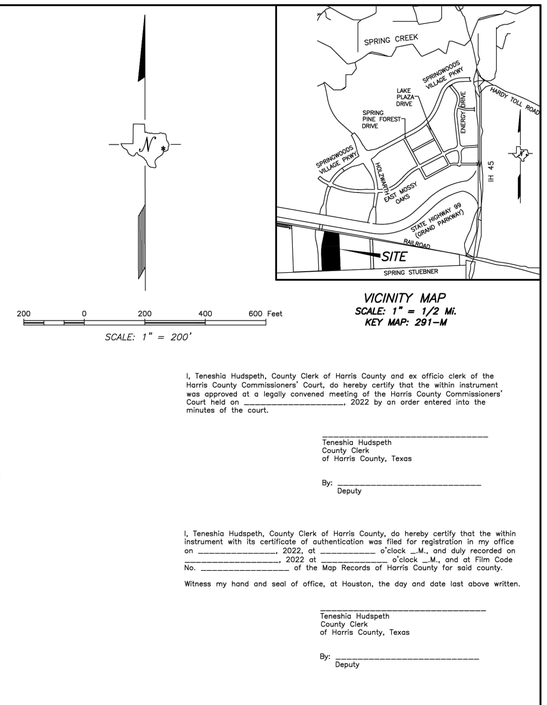
This is to certify that the Planning Commission of the City of Houston, Texas, has approved this plat and subdivision of SPRINGWOODS VILLAGE DISTRICT SEC 6 in conformance with the laws of the State of Texas and the ordinances of the City of Houston, as shown hereon, and authorized the recording of this plat this _____, day of _____, 2022.

By:_____
Martha L. Stein, Chair
or M. Sonny Garza, Vice Chair

By:_____
Margaret Wallace Brown, AICP, CNU-A
Secretary

I, Milton Rahman, County Engineer of Harris County, hereby certify that the plat of this subdivision complies with all the existing rules and regulations of this office as adopted by the Harris County Commissioners' Court and that it complies or will comply with all applicable provisions of the Harris County Road Law as amended and all other Court adopted drainage requirements.

_____
Milton Rahman, PhD, P.E., PMP, CFM, ENV SP
County Engineer



VICINITY MAP
SCALE: 1" = 1/2 Mi.
KEY MAP: 291-M

I, Teneshia Hudspeth, County Clerk of Harris County and ex officio clerk of the Harris County Commissioners' Court, do hereby certify that the within instrument was approved at a legally convened meeting of the Harris County Commissioners' Court held on _____, 2022 by an order entered into the minutes of the court.

_____
Teneshia Hudspeth
County Clerk
of Harris County, Texas

By: _____
Deputy

I, Teneshia Hudspeth, County Clerk of Harris County, do hereby certify that the within instrument with its certificate of authentication was filed for registration in my office on _____, 2022, at _____ o'clock __.M., and duly recorded on _____, 2022 at _____ o'clock __.M., and at Film Code No. _____ of the Map Records of Harris County for said county.

Witness my hand and seal of office, at Houston, the day and date last above written.

_____
Teneshia Hudspeth
County Clerk
of Harris County, Texas

By: _____
Deputy

I, C. L. Davis, R.P.L.S., am registered under the laws of the State of Texas to practice the profession of surveying and hereby certify that the above subdivision is true and accurate; was prepared from an actual survey of the property made under my supervision on the ground; that, except as shown all boundary corners, angle points, points of curvature and other points of reference have been marked with iron (or other objects of a permanent nature) pipes or rods having an outside diameter of not less than five eighths (5/8) inch and a length of not less than three (3) feet; and that the plat boundary corners have been tied to the Texas Coordinate System of 1983, South Central Zone.

_____
C. L. Davis, R.P.L.S.,
Registered Professional Land Surveyor
Texas Registration No. 4464

SPRINGWOODS VILLAGE DISTRICT SEC 6

A SUBDIVISION OF 28.8908 ACRES
BEING OUT OF THE
F. LIMSKY SURVEY, ABSTRACT 512
HARRIS COUNTY, TEXAS
1 BLOCK, 1 RESERVE
FEBRUARY, 2022

OWNER:
SPRINGWOODS REALTY, INC.
KEITH D. SIMON, VICE PRESIDENT
ONE NORTHGATE OFFICE BUILDING
28420 HARDY TOLL ROAD, SUITE 210
SPRING, TEXAS 77373
(212)752-6164

SURVEYOR:
C. L. DAVIS AND COMPANY
1500 WINDING WAY
FRIENDSWOOD, TEXAS 77546
Tel. (281)482-9490 Fax (281)482-1294
FIRM No. 10082000

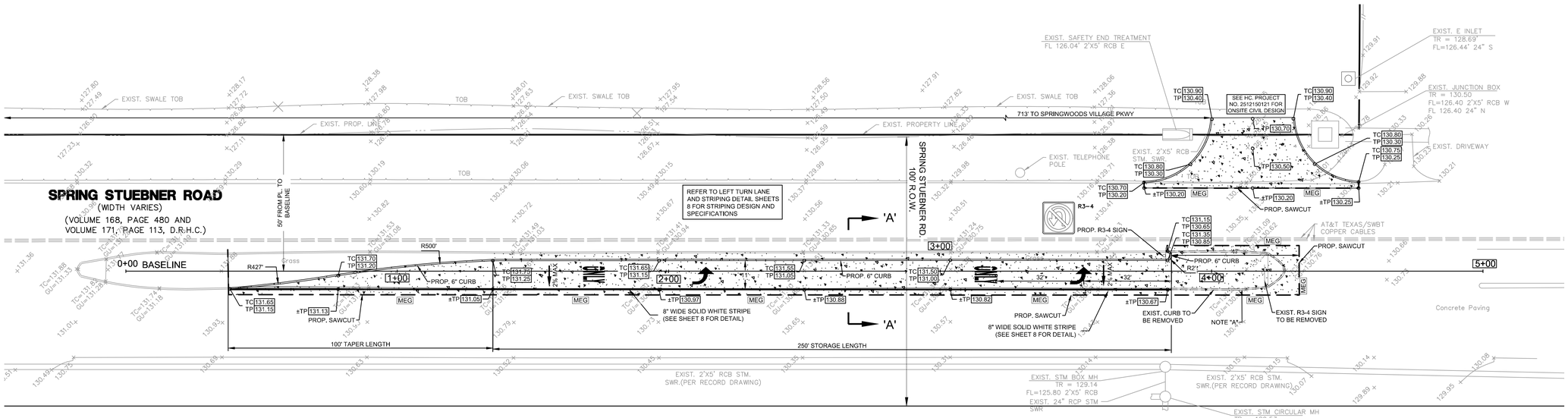
PROPOSED LEFT TURN LANE FOR HARMONY CITY PLACE

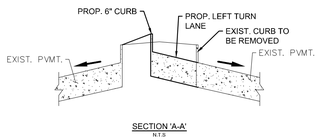
CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
22316 Grand Corner Drive, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

RECORDED PLAT

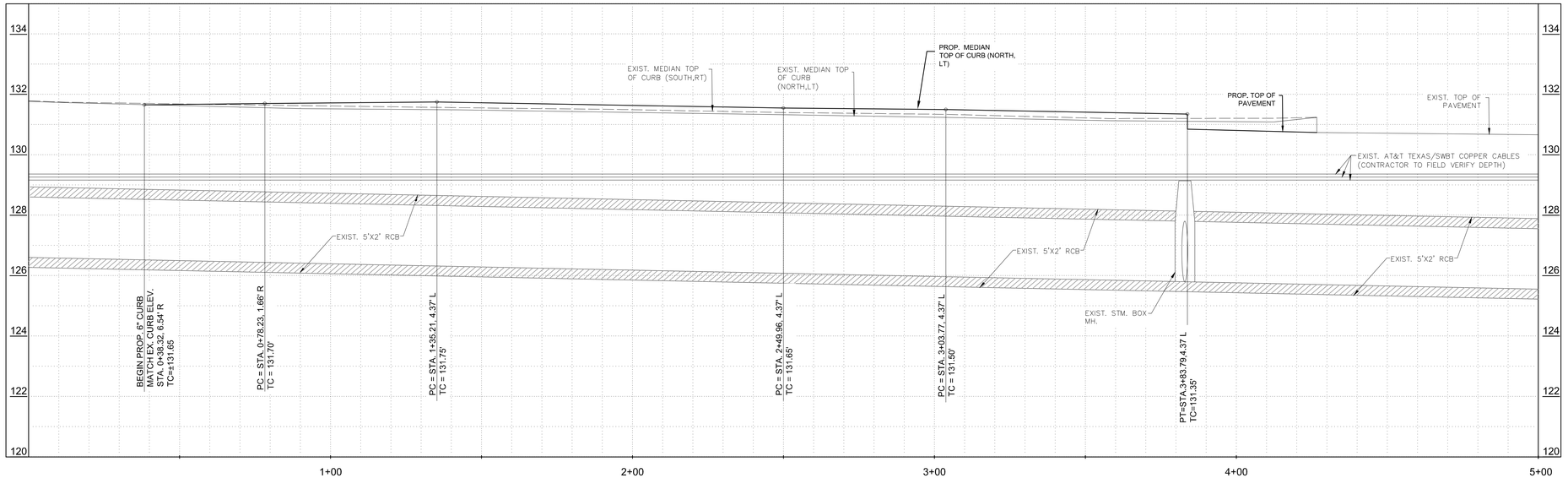
DRAWN BY:	DATE:	P.O. NO.
CHECKED BY:	DATE:	VENDER NO.
APPROVED BY:	DATE:	C.F.A. NO. 2410-047-30
SCALE:		SHEET NO. 5 OF 8

C:\fa Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 30 - LEFT TURN LANE\DWG\3 - 241004701 RECORDED PLAT.dwg Saved: 12/19/2025 2:30:17 PM Zach Kunchandy





SECTION 'A-A'
N.T.S



SURVEYOR

COBB FENDLEY
13430 NORTHWEST FREEWAY, SUITE 1100
PH: (713) 462-3242
FX: (713) 462-3242

BENCHMARK

REFERENCE BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL. NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER. WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARK

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 131.31 (FEET)

FLOODPLAIN

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

0 20' 40'
SCALE: 1" = 20'

PROP. LEGEND

	PROP. 10" MIN. CONC. PVMT.
MEG	MATCH EXISTING GRADE
TC 7.05 TP 6.55	PROPOSED GRADE
— — —	PROPOSED SAWCUT
NOTE 'A'	ALL CONC. CURB AND GUTTER AND PAVEMENT WITHIN PROP. SAWCUT LIMITS SHOWN SHALL BE REMOVED & DISPOSED BY THE CONTRACTOR

A NOTIFICATION ISSUED BY HC INFRASTRUCTURE DEPARTMENT - PERMITS OFFICE - IS REQUIRED FOR PROPOSED WORK WITHIN HARRIS COUNTY RIGHT-OF-WAY. THE PROJECT MUST BE APPROVED PRIOR TO OBTAIN THE REQUIRED NOTIFICATION. A NOTIFICATION MUST BE OBTAINED SEPARATELY FROM SITE DEVELOPMENT PERMIT PACKAGE. FOR ADDITIONAL INFORMATION PLEASE VISIT: HTTP://HCPID.ORG/PERMITS/PR_NOTIFICATION_OF_CONSTRUCTION.HTML OR CONTACT PUBLIC REVIEW INSPECTIONS DEPARTMENT @ (713) 274-3931

APPENDIX F - CONSTRUCTION NOTES FOR ESPLANADE OPENING AND TURN LANES

1. ESPLANADE NOSES AT THE CROSSOVER ARE TO BE BULLET TYPE, PAINTED REFLECTORIZED YELLOW, IN ACCORDANCE WITH THE HARRIS COUNTY PAVEMENT MARKING DETAIL AND TO BE SIX INCHES (6") THICK WITH SURFACE COLORED BLACK FOR CONCRETE PAVEMENT AND UNCOLORED FOR ASPHALT PAVEMENT, A MINIMUM OF SIX FEET (6') DEEP MEASURED FROM THE END OF THE MEDIAN NOSE AND THE CURBS ARE AT LEAST FOUR FEET (4') IN WIDTH FACE TO FACE.
2. THE RELOCATION OF EXISTING TREES, LANDSCAPING, SPRINKLER SYSTEMS, WATER METERS, FIRE HYDRANTS, MANHOLES, AND PIPELINES (IF APPLICABLE) ARE TO BE RE□INSTALLED AS RECOMMENDED BY THE HARRIS COUNTY ENGINEERING DEPARTMENT – PERMIT OFFICE AND/OR THE HARRIS COUNTY PRECINCT (IF LOCATED IN PRECINCT 3, ADD NOTE: CONTRACTOR(S) TO CONTACT PRECINCT 3 PARKS ADMINISTRATION OFFICE @ (281-531-1592) TWO (2) WEEKS PRIOR TO CONSTRUCTION FOR TREE(S) AND LANDSCAPING RELOCATION.
3. EXISTING REINFORCED CONCRETE PAVEMENT IS TO BE MACHINE SAW-CUT 1-1/2 INCHES DEEP TO EXPOSE A MINIMUM OF TWENTY□FOUR (24) INCHES OF REINFORCING BARS AND PLACE NEW REINFORCING BARS TO MATCH EXISTING STEEL SIZE AND SPACING AND TIE NEW REINFORCING BARS TO EXISTING REINFORCING BARS WITH EIGHTEEN (18) INCH LAPS. FULL DEPTH SAW □CUT MAY BE USED AS AN ALTERNATIVE.
4. REINFORCING CONCRETE PAVEMENT IS TO BE A MINIMUM EIGHT (8) INCHES WITH A MINIMUM OF 5.0 SACK CEMENT PER CUBIC YARD, [4500 PSI IN TWENTY-EIGHT (28) DAYS]. NOTE: DEPTH OF CONCRETE TO MEET CURRENT REQUIREMENTS OF DEPTH OF EXISTING PAVEMENT WHENEVER IT IS GREATER..
5. ASPHALT TURN LANE TO BE MINIMUM (2) INCHES H.M.A.C. WITH (10) INCH BASE. ROAD WIDENING'S DONE ON ASPHALT ROADWAYS FOR TURN LANES MUST BE OVERLAID FULL WIDTH OF THE ROADWAY FROM BEGINNING TO ENDING TRANSITION.
6. THE SUBGRADE SHALL BE A MINIMUM OF SIX (6) INCHES FOR ASPHALT AND EIGHT (8) INCHES FOR CONCRETE, OF A MATERIAL AS SPECIFIED BY THE ENGINEER AND APPROVED BY HARRIS COUNTY, AND COMPACTED TO NINETY-FIVE (95) PERCENT STANDARD PROCTOR DENSITY (+/-) TWO (2) PERCENT MOISTURE. CEMENT STABILIZED SAND, AS PRESCRIBED BY HARRIS COUNTY SPECS, MAY BE USED AS AN ALTERNATIVE.
7. SLOPE ON PROPOSED CONCRETE LEFT TURN SLOTS IS TO BE A MINIMUM OF 1/8 INCH PER FOOT WITH CROWN AT CENTER OF ESPLANADE.
8. ALL SEWERS UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.
9. THE CONTRACTOR SHALL NOTIFY THE HARRIS COUNTY ENGINEERING DEPARTMENT – PERMIT OFFICE TWENTY-FOUR (24) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT (713) 274-3931 AND WRITTEN NOTIFICATION FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENT.
10. ALL PAVEMENT WORK WILL REQUIRE AN ACCREDITED LAB CERTIFICATION FOR SUBGRADE, CONCRETE COMPRESSIVE STRENGTH, IN PLACE CORE. ASPHALT WORK WILL REQUIRE A SIEVE TEST, SUBGRADE AND BASE COMPACTION RESULTS.
11. PAVING SHALL BE IN ACCORDANCE WITH THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE" RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS OR RE□SUBDIVISIONS AND/OR AMENDMENTS OF THE SAME.
12. GUIDELINES SET FOR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
13. INCLUDE HARRIS COUNTY DRAWING SD□1 AS PART OF THE CONSTRUCTION PLANS.
14. INCLUDE HARRIS COUNTY PAVEMENT MARKING DETAIL AS A PART OF THE CONSTRUCTION PLANS.
15. NOTE: "NOTIFICATION(S) ISSUED BY HARRIS COUNTY ENGINEERING DEPARTMENT-PERMIT OFFICE REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR TURN LANES WITHIN HARRIS COUNTY RIGHTS-OF-WAY". CONTACT HARRIS COUNTY PERMIT OFFICE AT (713) 274-3931.
16. OWNER OR OWNER'S AGENT TO OBTAIN ALL PERMITS AND NOTIFICATION(S) REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY ROAD RIGHTS-OF-WAY.

NOTE

1. HARRIS COUNTY INSPECTOR TO DETERMINE THE FINAL DIMENSIONS FOR SAW CUTS. HARRIS COUNTY INSPECTORS HAS FINAL APPROVAL FOR ACCEPTANCE ON HARRIS COUNTY ROADS AND ROW.
2. PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND HARRIS COUNTY DESIGN STANDARDS AS CURRENTLY AMENDED.
3. SAW CUT NEEDS TO BE JOINT TO JOINT.

PROPOSED LEFT TURN LANE FOR HARMONY CITY PLACE

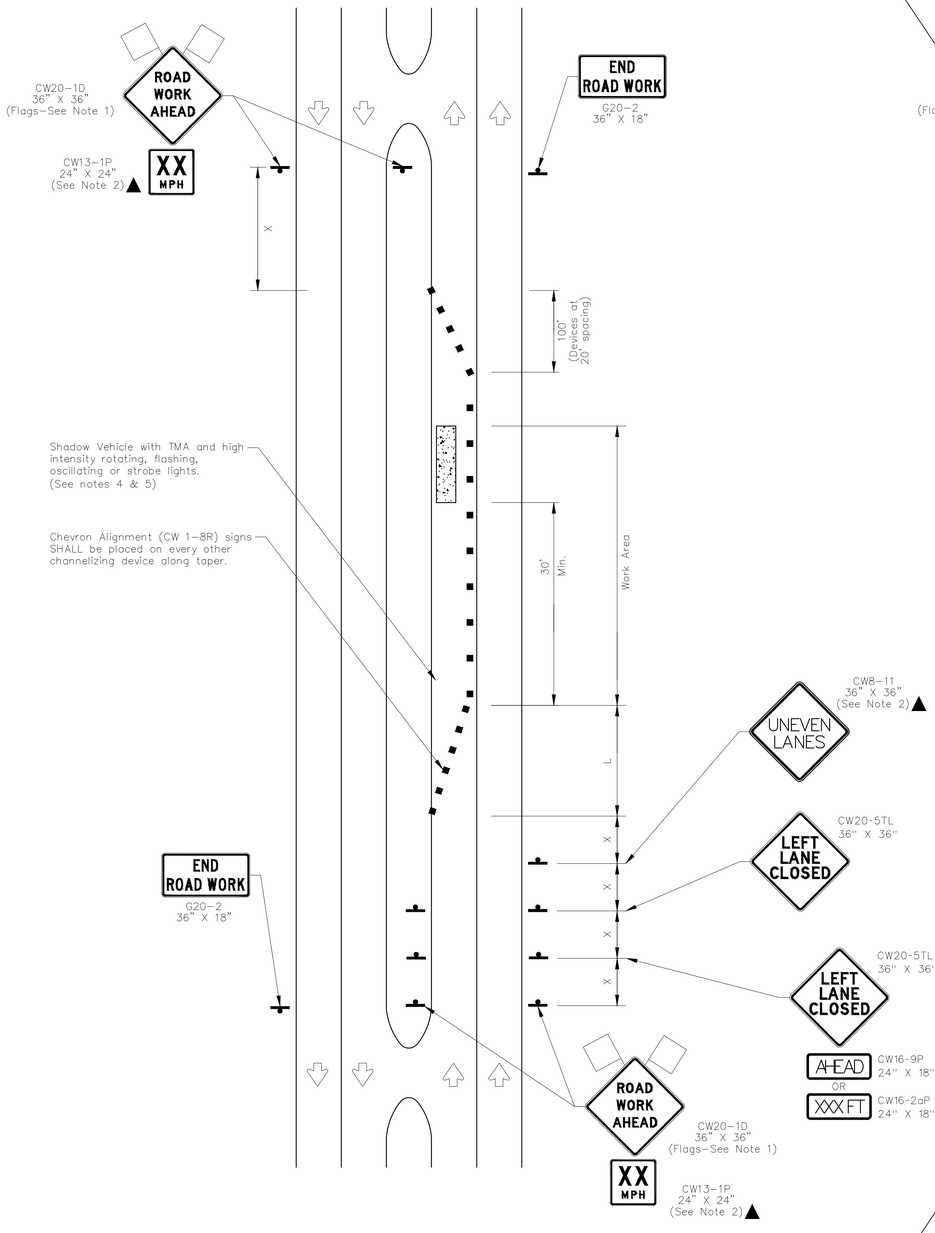
CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
22316 Grand Corner Drive, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
06/10/2026

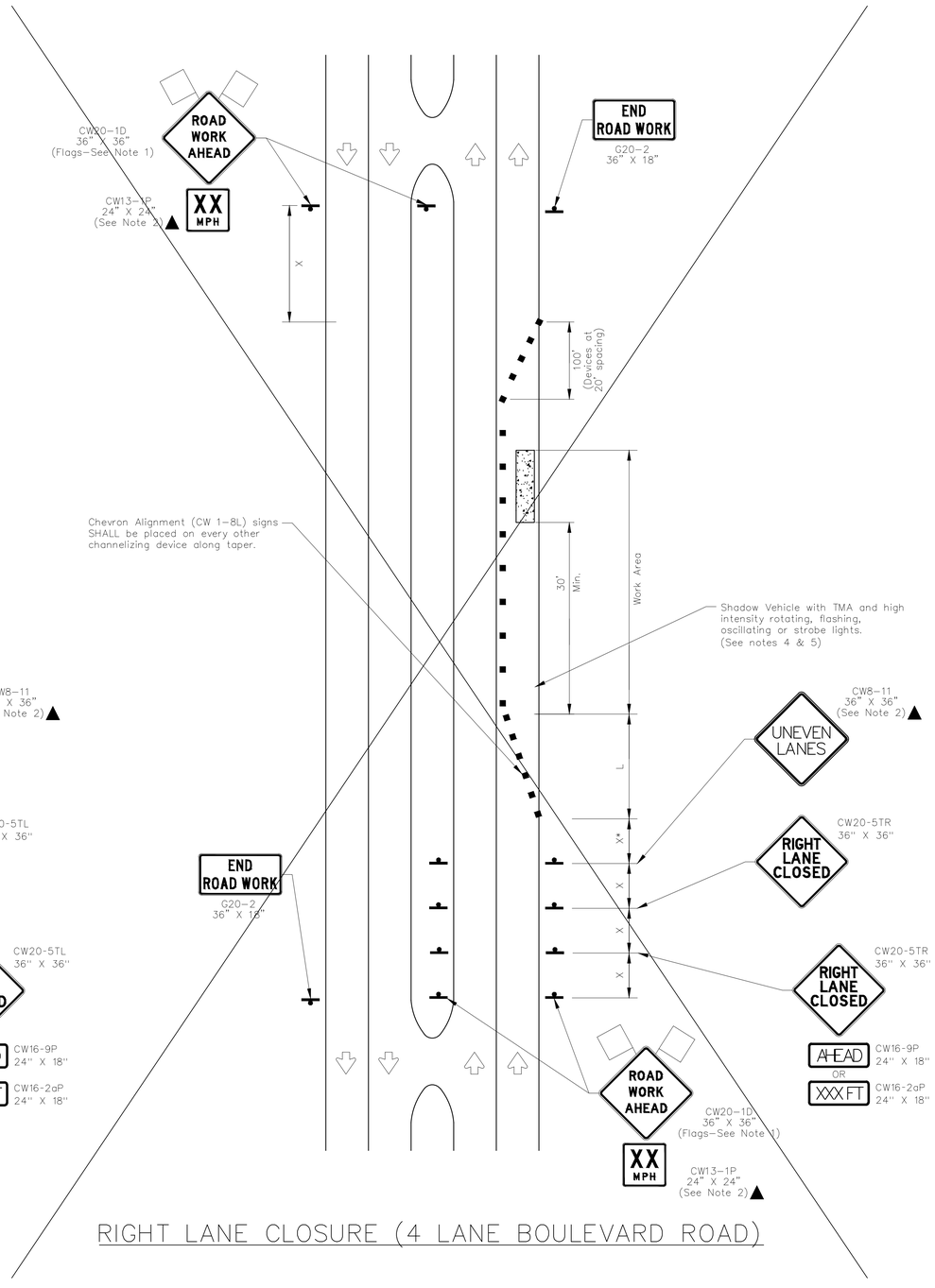
SPRING STUEBNER RD. LEFT TURN LANE PLAN & PROFILE

DRAWN BY:	DATE:	P.O. NO.
CHECKED BY:	DATE:	VENDER NO.
APPROVED BY:	DATE:	C.F.A. NO. 2410-047-30
SCALE:	SHEET NO. 6 OF 8	

Cfa Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 30 - LEFT TURN LANE\DWG\4 - 241004701_LEFT TURN LANE.dwg Saved: 6/1/2026 5:55:16 PM/ aali



LEFT LANE CLOSURE (4 LANE BOULEVARD ROAD)



RIGHT LANE CLOSURE (4 LANE BOULEVARD ROAD)

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
SPRING STUEBNER RD.	45 MPH	495 FT	45 FT	90 FT	320 FT	195 FT

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths "L" * *			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

* * Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

1. Flags attached to signs where shown are OPTIONAL.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD - Latest edition with revisions) during construction.
7. No lanes shall be blocked from 7am to 9am and 4pm to 6:30pm Monday thru Friday.
8. Off duty police officers/flaggers are required to direct traffic when applicable.
9. If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

PROPOSED LEFT TURN LANE FOR HARMONY CITY PLACE

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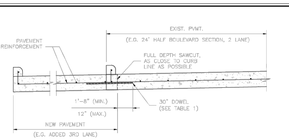
STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
06/10/2026

TRAFFIC CONTROL PLAN

DRAWN BY:	DATE:	P.O. NO.
CHECKED BY:	DATE:	VENDER NO.
APPROVED BY:	DATE:	C.F.A. NO. 2410-047-30
SCALE:	SHEET NO. 7 OF 8	

C:\a Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 30 - LEFT TURN LANE\DWG\15 - 24100470 1 TRAFFIC CONTROL PLAN.dwg/ Saved: 12/19/2025 2:30:36 PM/ Zach Kunchandy

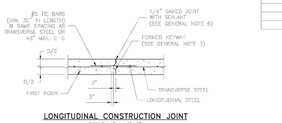


TYPICAL CONCRETE ROADWAY WIDENING DETAIL
SCALE: 1" = 2'-0"

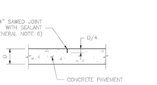
TABLE 1
(CONSTRUCTION JOINT DOWELS)

DOWEL SIZE	PAVEMENT DEPTH
#5 BAR	7"
#6 BAR	7-9"

DOWEL SHALL BE DRILLED INTO EXISTING PAVEMENT (MIN. 10", MAX. 12") AND EPOXIED. (SEE ITEM 361.3)

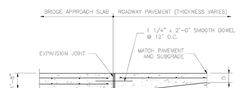


LONGITUDINAL CONSTRUCTION JOINT
SCALE: 1" = 2'-0"

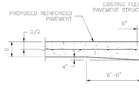


CONTRACTION JOINT (SAWED)
SCALE: 1" = 2'-0"

NOTE FOR CONTRACTION JOINT:
1. 20'-0" MAXIMUM SPACING BETWEEN JOINTS.

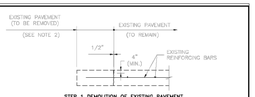


TYPICAL SECTION
PAVING TIE-IN TO BRIDGE APPROACH SLAB
SCALE: 1" = 5'-0"



TYPICAL PAVING HEADER
SCALE: 1" = 5'-0"

NOTES FOR PAVING HEADER:
1. ADDITIONAL CONCRETE FOR PAVING HEADER SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.
2. DISTURBED MATERIAL IN THE FLEXIBLE PAVEMENT WILL BE BACKFILLED WITH ASPHALT CONCRETE PAVEMENT (ACP). THIS ACP WILL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.



CONCRETE TO CONCRETE STANDARD PAVEMENT TIE-IN
SCALE: 1" = 3'-0"

NOTES FOR STANDARD PAVEMENT TIE-IN:
1. REINFORCING CENTERED IN PROPOSED PAVEMENT, 3" CLEAR AT EDGES.
2. SAWCUT 2" DEEP MINIMUM AND REMOVE 2'-0" EXISTING PAVEMENT OR PAVEMENT WITH CURB. EXPOSE AND CLEAN EXISTING REINFORCING.
3. #4 BAR DIAMETER LAP SPLICE OR WELD, IF DIRECTED.
4. IF NO EXPOSED REINFORCING STEEL EXISTS, HORIZONTAL DOWELS SHALL BE PLACED AT 24" CENTER TO CENTER AND DRILLED 8" INTO THE EDGES OF THE EXISTING DEPRAVITY SLAB WITH EPOXY OR APPROVED EQUAL.
SIZE OF DOWEL BARS SHALL CONFORM TO TABLE 1. DOWELS SHALL BE PLACED 24" CENTER TO CENTER.
5. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN IN THE DETAIL) AT THE EXISTING PAVEMENT TO REMAIN. IN THIS CASE, IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).

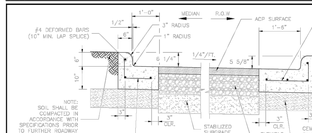
GENERAL NOTES:
1. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE PAVEMENT, REFER IN PART TO THE CONFORMING SPECIFICATION ITEM 360 "CONCRETE PAVEMENT."
2. THE CHAIRS USED TO SUPPORT THE BAR MATS SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE MAT WITHIN THE PLACEMENT HEIGHT AND SHALL BE OF A TYPE APPROVED BY THE ENGINEER. SPACING OF BAR SUPPORT CHAIRS SHALL BE 2'-0" MAXIMUM.
3. SAWED CONTRACTION JOINTS SHALL BE USED FOR LONGITUDINAL JOINTS WHERE PAVEMENT IS PLACED IN TWO OR MORE LANES AT A TIME. WHERE KEYED CONSTRUCTION JOINTS SHALL BE USED AT ALL OTHER JOINTS.
4. ALL SAW CUTTING SHOWN ON THIS DETAIL SHALL BE INCIDENTAL TO ITEM 360 "CONCRETE PAVEMENT."
5. D = THICKNESS OF CONCRETE PAVEMENT.
   - FOR DEVELOPMENT PROJECTS SEE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE."
   - FOR PUBLIC PROJECTS SEE HCED 1988 DESIGN GUIDELINES.
6. JOINT SEALANT SHALL CONFORM TO THE REQUIREMENTS OF ITEM 360 "CONCRETE PAVEMENT."

NO.	REVISIONS	DATE	NAME

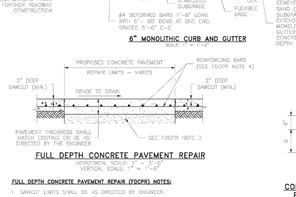
HARRIS COUNTY ENGINEERING DEPARTMENT

FOR INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE. NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES
ENGINEER: NAME
P.E. SERIAL NO.: NUMBER
DATE: / /

PROJECT TITLE:		STANDARD SHEET NO.
CONCRETE PAVEMENT DETAILS		CP-13
JDZ	PRECINCT 1 & 3 (1 OF 2)	11/05/18
PDG	AS NOTED	



8" MONOLITHIC CURB AND GUTTER
SCALE: 1" = 1'-0"

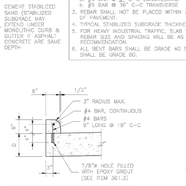


FULL DEPTH CONCRETE PAVEMENT REPAIR
HORIZONTAL SCALE: 1" = 1'-0"
VERTICAL SCALE: 1" = 1'-0"

FULL DEPTH CONCRETE PAVEMENT REPAIR (FDCPR) NOTES:
1. SAWCUT LIMITS SHALL BE AS DIRECTED BY ENGINEER.
2. EXISTING CONCRETE VERTICAL FACES SHALL BE CLEANED OF ALL DELETERIOUS LOOSE MATERIAL PRIOR TO CONCRETE PLACEMENT.
3. FOR REPAIR/REPLACE AREAS, A 6" DEPTH BASE SHALL BE REMOVED AND REPLACED WITH CEMENT STABILIZED SAND PER ITEM 433.
4. REINFORCEMENT FOR PAVEMENT 8" THICK OR GREATER SHALL BE NO. 5 BARS AT 18" SPACING IN EACH DIRECTION. REINFORCEMENT FOR PAVEMENT LESS THAN 8" THICK SHALL BE NO. 4 BARS AT 18" IN EACH DIRECTION.
5. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN IN THE DETAIL) AT THE EXISTING PAVEMENT TO REMAIN. IN THIS CASE, IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).

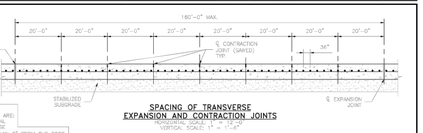
ALTERNATE VERTICAL REINFORCEMENT
SCALE: 1" = 1'-0"

TYPICAL CONCRETE CURB REINFORCING DETAILS
SCALE: 1" = 1'-0"

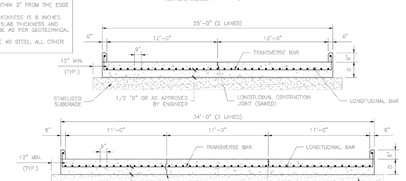


4" X 12" MONOLITHIC CURB
SCALE: 1" = 1'-0"

SLAB AND REBAR NOTES:
1. TYPICAL SLAB THICKNESS D=10"
2. TYPICAL REBAR SIZE AND SPACING ARE:
   a. #3 BAR @ 3'-0" C-C LONGITUDINAL
   b. #3 BAR @ 36" C-C TRANSVERSE
3. REBAR SHALL NOT BE PLACED WITHIN 3" FROM THE EDGE OF PAVEMENT.
4. TYPICAL STABILIZED SUBGRADE THICKNESS IS 8 INCHES.
5. FOR HEAVY INDUSTRIAL TRAFFIC, SLAB THICKNESS AND REBAR SIZE AND SPACING WILL BE AS PER GEOTECHNICAL RECOMMENDATION.
6. ALL BENT BARS SHALL BE GRADE 60 STEEL, ALL OTHER SHALL BE GRADE 60.



SPACING OF TRANSVERSE EXPANSION AND CONTRACTION JOINTS
HORIZONTAL SCALE: 1" = 10'-0"
VERTICAL SCALE: 1" = 1'-0"



TYPICAL STEEL REBAR REPLACEMENT AND SPACING OF LONGITUDINAL JOINTS (NEW CONSTRUCTION)
HORIZONTAL SCALE: 1" = 2'-0"
VERTICAL SCALE: 1" = 1'-0"

SPACING OF LONGITUDINAL JOINTS (WIDENING)
HORIZONTAL SCALE: 1" = 2'-0"
VERTICAL SCALE: 1" = 1'-0"

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY ENGINEERING DEPARTMENT

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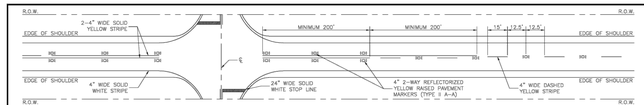
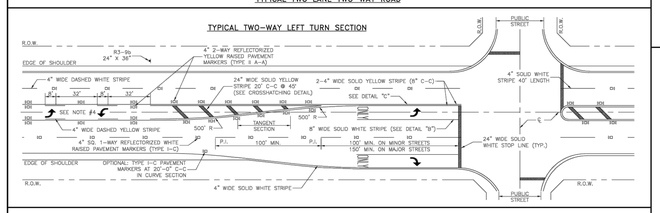
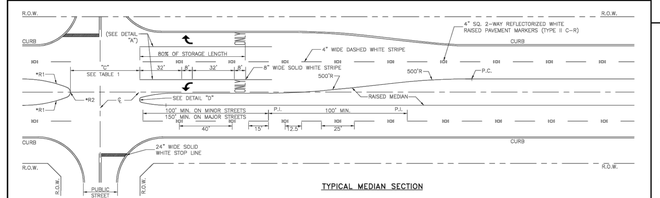
DOCUMENT INCOMPLETE. NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES
ENGINEER: NAME
P.E. SERIAL NO.: NUMBER
DATE: / /

PROJECT TITLE:		STANDARD SHEET NO.
CONCRETE PAVEMENT DETAILS		CP-14
JDZ	PRECINCT 1 & 3 (2 OF 2)	11/05/18
PDG	AS NOTED	



TYPICAL TWO LANE TWO-WAY ROAD

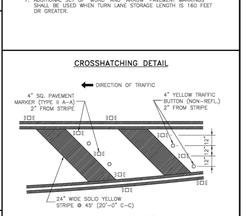




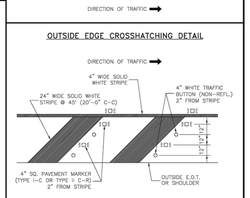
TYPICAL MEDIAN SECTION

NOTES:
1. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (TMUTCD).
2. ALL TRAFFIC BUTTONS AND MARKERS SHALL BE INSTALLED ADJACENT TO STRIPES (APPROXIMATELY 2").
3. LENGTH OF STORAGE BAYS SHALL BE A MIN. OF 100' ON MINOR STREETS AND 150' ON MAJOR STREETS.
4. REPEAT ARROWS AT APPROXIMATELY 1000' INTERVALS WITHIN TWO-WAY LEFT TURN SECTION.
5. WHEN PAVEMENT MARKINGS EXTEND INTO OR CONTINUE THROUGH AN INTERSECTION, THE WIDTH OF THE MARKINGS SHALL EXTEND AT LEAST THE FULL WIDTH OF THE CALL MARKINGS THEY JOIN.
6. WHEN CROSSWALK MARKINGS ARE USED WITHIN AN ESTABLISHED SCHOOL ZONE AREA, CONTINENTAL TYPE MARKINGS SHALL BE USED.
7. ADDITIONAL SET OF "NORD" AND "ARROW" PAVEMENT MARKINGS SHALL BE USED WHEN TURN LANE STORAGE LENGTH IS 160 FEET OR GREATER.

CROSSHATCHING DETAIL



OUTSIDE EDGE CROSSHATCHING DETAIL



NO.	REVISIONS	DATE	NAME

HARRIS COUNTY ENGINEERING DEPARTMENT

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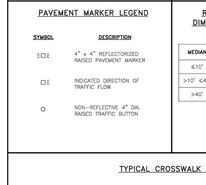
ENGINEER: NAME
P.E. SERIAL NO.: NUMBER
DATE: / /

PROJECT TITLE:		STANDARD SHEET NO.
PAVEMENT MARKING DETAILS (1 OF 2)		PM
DESIGNED BY: BSH	SCALE: NONE	12/14/17 SHEET NO.



PAVEMENT MARKER LEGEND

SYMBOL	DESCRIPTION
	4" x 4" REFLECTORIZED RAISED PAVEMENT MARKER
	INDICATED DIRECTION OF TRAFFIC FLOW
	NON-REFLECTIVE 4" DIA. RAISED TRAFFIC BUTTON

RADIUS DIMENSIONS

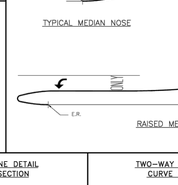
MEDIAN	*R1	*R2
≤10'	N/A	W/2
>10' ≤40'	90°	W/5
>40'	N/A	N/A

TABLE 1
TYPICAL MEDIAN OPENING "C"

MEDIAN INTERRUPTION	(1) NO LTB	(1) 1 LTB	(1) 2 LTB
PRIVATE DRIVE	45'	52.5'	60'
UNDIVIDED STREET ≤40'	45'	52.5' (2)	60'
44'	50'	55' (2)	60'
DIVIDED STREET	0+22'	0+22'	0+22'

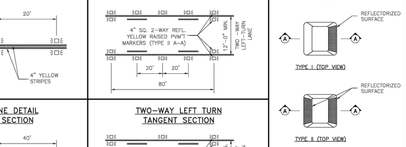
NOTES:
(1) LTB = LEFT TURN BAY
(2) DISTANCE FROM CENTERLINE OF OPENING TO MEDIAN NOSE WITH LEFT TURN LANE IS 30' FOR RIGHT ANGLE INTERSECTIONS. FOR INTERSECTIONS OTHER THAN 90°, APPLY DESIGN VEHICLE TURNING TEMPLATE TO DETERMINE DIMENSION TO MEDIAN NOSE CUT OFF.
(3) D = WIDTH OF DIVIDED STREET

DETAIL "D"



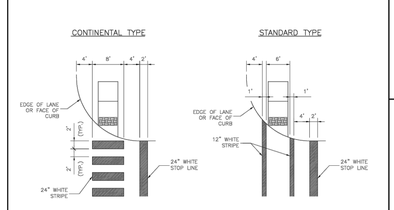
TYPICAL MEDIAN NOSE

TYPICAL CURB SECTION

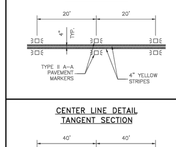


RAISED MEDIAN WITH TURN BAY

TYPICAL CROSSWALK PLACEMENT



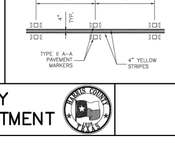
CENTER LINE DETAIL CURVE SECTION



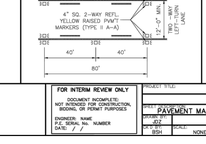
TWO-WAY LEFT TURN CURVE SECTION

RAISED PAVEMENT MARKERS

CENTER LINE DETAIL TANGENT SECTION



TWO-WAY LEFT TURN TANGENT SECTION



NO.	REVISIONS	DATE	NAME

HARRIS COUNTY ENGINEERING DEPARTMENT

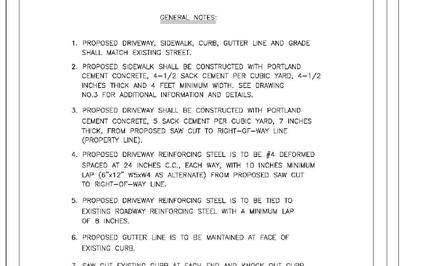
FOR INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE. NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES
ENGINEER: NAME
P.E. SERIAL NO.: NUMBER
DATE: / /

PROJECT TITLE:		STANDARD SHEET NO.
PAVEMENT MARKING DETAILS (2 OF 2)		PM
DESIGNED BY: BSH	SCALE: NONE	12/14/17 SHEET NO.

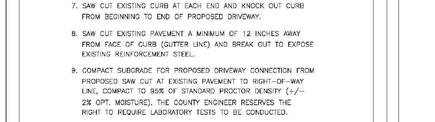
GENERAL NOTES:
1. PROPOSED DRIVEWAY, SIDEWALK, CURB, GUTTER LINE AND GRADE SHALL MATCH EXISTING STREET.
2. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 4-1/2 SACK CEMENT PER CUBIC YARD, 4-1/2 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO.3 FOR ADDITIONAL INFORMATION AND DETAILS.
3. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 5 SACK CEMENT PER CUBIC YARD, 7 INCHES THICK, FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE (PROPERTY LINE).
4. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED SPACED AT 24 INCHES C.C., EACH WAY, WITH 10 INCHES MINIMUM LAP (6"x12" MSWM3 AS ALTERNATE) FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE.
5. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 8 INCHES.
6. PROPOSED GUTTER LINE IS TO BE MAINTAINED AT FACE OF EXISTING CURB.
7. SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY.
8. SAW CUT EXISTING PAVEMENT A MINIMUM OF 12 INCHES AWAY FROM FACE OF CURB (GUTTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.
9. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO RIGHT-OF-WAY LINE, COMPACT TO 95% OF STANDARD PROCTOR DENSITY (+/- 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
10. IF MORE THAN ONE PROPOSED DRIVEWAY IS BUILT ON THE SAME PROPERTY, SAID DRIVEWAYS SHALL BE SEPARATED BY A MINIMUM DISTANCE OF 20 FEET (ROADWAYS WITH CURBS AND SIDEWALKS).
11. REINFORCING STEEL TO BE ELEVATED A MINIMUM OF 3" ABOVE SUBGRADE. (3 INCHES MANUFACTURED CHAIRS ARE REQUIRED WITH MAXIMUM SPACING OF 72 INCHES C/C EACH WAY).

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS ON CURBED TYPE STREETS, COMMERCIAL AREA	APPROVED BY:	DRAWN BY:
	DATED:	DRAWING No. DW-4

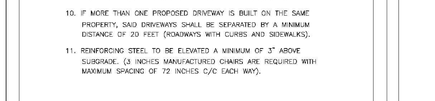
PLAN



PROFILE
Section A-A



Proposed Asphalt Driveway



Proposed Concrete Driveway

General Notes:
1. Concrete driveways shall be built with portland cement concrete, 5 sack minimum per cubic yard.
2. Steel rebar shall be minimum, ASTM A615, grade 40, unless noted
3. 3" non-metallic chairs are required.
4. Compaction of subgrade to 95% of standard proctor density (ASTM D698) (+/- 2% optimum moisture) the County Engineer reserves the right to require laboratory tests to be conducted.
5. Residential driveways require minimum 6" concrete thickness.
6. For proposed heavy truck traffic driveways, the engineer must include a pavement design that will adequately handle HS-20 loading.
7. If proposed driveway is to cross a sidewalk, a maximum 2% slope of the driveway section adjacent to the sidewalk is required.
8. No curb is allowed on the driveway in H.C. ROW for non-curbed roads.

DRIVEWAY DETAIL FOR NON-CURBED STREETS IN HARRIS COUNTY RIGHT-OF WAY	Approved by: G. Kohnen	Drawn by: JF Rodriguez
	Date: January 2012	Drawing No. DW-1

HARRIS COUNTY PUBLIC INFRASTRUCTURE

PROPOSED LEFT TURN LANE FOR HARMONY CITY PLACE

CobbFendley
TBPE Firm Registration No. F-274
TBPLS Firm Registration No. 10046700
22316 Grand Corner Drive, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262
www.cobbfendley.com

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
06/10/2026

CONSTRUCTION DETAILS

DRAWN BY:	DATE:	P.O. NO.
CHECKED BY:	DATE:	VENDER NO.
APPROVED BY:	DATE:	C.F.A. NO. 2410-047-30
SCALE:		SHEET NO. 8 OF 8

Cfa Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\TASK 30 - LEFT TURN LANE\DWG\6 - 241004701 CONSTRUCTION DETAIL.dwg Saved: 5/5/2026 8:36:50 AM Adam Richard

CONSTRUCTION PLANS
FOR
GRADING, UTILITIES, STORM DRAINAGE, & PAVING IMPROVEMENTS
TO SERVE
HARMONY CITY PLACE - MIDDLE/HIGH SCHOOL
22000 SPRINGWOODS VILLAGE PKWY
SPRING, TEXAS 77379

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston)
1-800-545-6005
(New Statewide Number Outside Houston)

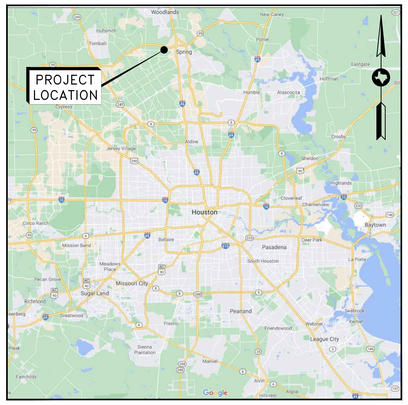
FIRM FLOOD INSURANCE RATE MAP
PANEL 585 OF 1150
MAP # 48201C0255L
MAP REVISED: JUNE 18, 2007
UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston)
1-800-545-6005
(New Statewide Number Outside Houston)

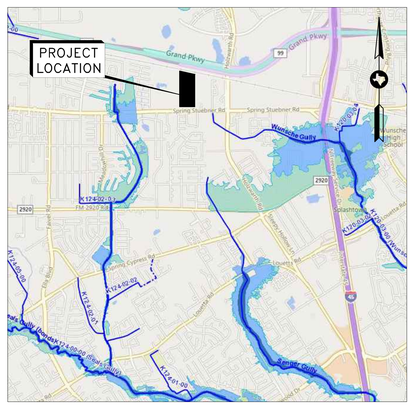
THE DESIGN OF THIS PROJECT, AS SHOWN ON THESE SIGNED AND SEALED CONSTRUCTION PLANS, HAS BEEN ANALYZED USING ATLAS 14 DATA AND IT HAS BEEN FOUND THAT: (1) FLOODWATER WILL NOT INUNDATE ANY PROPOSED STRUCTURES, NOR WORSEN FLOODING FOR EXISTING STRUCTURES, FOR STORMS UP TO AND INCLUDING THE ONE PERCENT ANNUAL EXCEEDANCE PROBABILITY EVENT; (2) WATER SURFACE ELEVATIONS CREATED BY THE ONE PERCENT ANNUAL EXCEEDANCE PROBABILITY EVENT UPSTREAM OF THE DEVELOPMENT DO NOT INCREASE AS A RESULT OF THE DEVELOPMENT; (3) WATER SURFACE ELEVATIONS CREATED BY THE ONE PERCENT ANNUAL EXCEEDANCE PROBABILITY EVENT DOWNSTREAM OF THE DEVELOPMENT DO NOT INCREASE AS A RESULT OF THE DEVELOPMENT; AND, (4) PROPOSED FINISHED FLOOR ELEVATIONS OF NEW STRUCTURES COMPLY WITH HARRIS COUNTY FLOODPLAIN REGULATIONS.

48 HOUR NOTICE:

CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES. CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ (713-274-3931) OR (PUBLIC.REVIEW@HCPID.ORG)



LOCATION MAP



VICINITY MAP
KEY MAP NO: 291M, 291R
ZIP CODE: 77379
HARRIS COUNTY, TEXAS

SHEET LIST TABLE	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	HARRIS COUNTY FLOOD CONTROL REVIEW SHEET
C0.2	HARRIS COUNTY ENGINEERING REVIEW SHEET
C0.3	GENERAL NOTES
C0.4	TOPOGRAPHIC SURVEY
C0.5	FIRE ACCESS PLAN
C0.6	OVERALL SITE AND DIMENSION CONTROL PLAN
C1.0	GRADING AND DRAINAGE PLAN (1 OF 2)
C1.1	GRADING AND DRAINAGE PLAN (2 OF 2)
C2.0	WATER AND SANITARY SEWER PLAN
C3.0	PHASE 1 APPROVED DRAINAGE AREA MAP
C3.1	PHASE 2 DRAINAGE AREA MAP
C3.2	STORM SEWER PLAN (1 OF 2)
C3.3	STORM SEWER PLAN (2 OF 2)
C3.4	STORM SEWER CALCULATIONS
C3.5	DETENTION BASIN LAYOUT
C3.6	STORM WATER QUILITY MANAGEMENT PLAN
C4.0	PAVEMENT AND JOINT PLAN (1 OF 2)
C4.1	PAVEMENT AND JOINT PLAN (2 OF 2)
C5.0	STORM WATER POLLUTION PREVENTION PLAN
C6.0	CONSTRUCTION DETAILS (1 OF 4)
C6.1	CONSTRUCTION DETAILS (2 OF 4)
C6.2	CONSTRUCTION DETAILS (3 OF 4)
C6.3	CONSTRUCTION DETAILS (4 OF 4)

STATE OF TEXAS
MICHAEL P.A. MAZZIOLA
117109
LICENSED PROFESSIONAL ENGINEER
6/25/2026

CobbFendley
TBPE Firm Registration No. 274
TBPLS Firm Registration No. 100467
22316 Grand Corner Dr, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

June 2026
100% IFP SET

Cfa Info: D:\Projects\20241004?_Gignac\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\DWG\241004701_C0.0 COVER SHEET.dwg/ Plotted: 6/25/2026 2:23:08 PM Saved By: aalt

1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
☐ 1 ☐ 2 ☒ 3 ☐ 4

B. KEY MAP: 291-M & 291-R

C. ADDRESS: 2600 SPRING STUEBNER RD

II. LEGAL DESCRIPTION

A. ACREAGE: 28.92 AC

B. ☐ SUBDIVISION:

☒ SURVEY & ABSTRACT: F. LIMSKY SURVEY A-512

C. ADJACENT ROADS: SPRING STUEBNER ROAD

III. PLATTING

A. SUBDIVISION PLAT
☒ PROPOSED PLAT / REPLAT
☐ RECORDED PLAT / REPLAT

B. STREETS PROPOSED
☐ PUBLIC
☒ PRIVATE
☐ PUBLIC & PRIVATE
☐ NONE

PLAT NAME: SPRINGWOODS VILLAGE DISTRICT SEC 6

IV. JURISDICTIONS

☐ CITY OF
☒ ETJ, CITY OF HOUSTON
☐ ETJ, CITY OF
☐ NO ETJ
☐ UTILITY DISTRICT (NAME) HCID NO 18

V. HCAD ACCOUNT NOS. (ALL)

0431780000198, 1440310010001

2. SITE DETENTION DRAINAGE

I. PROPOSED DRAINAGE AREA

☒ NEW DEVELOPMENT AREA: 28.92 AC
☐ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA):
☐ LOW IMPACT DEVELOPMENT (LID)
METHOD/DESCRIPTION

II. METHODOLOGY

HCFCD PCPM DETENTION METHOD USED:
☐ METHOD 1 (LESS THAN 20 ACRES)
☒ METHOD 2 (20 ACRES TO 640 ACRES)
☐ METHOD 3 (GREATER THAN 640 ACRES)
☐ OTHER

III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
☐ .65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.)
☐ .75, EXISTING STORM SEWER (OWNER & OPERATOR)
☒ 1.00, ROADSIDE DITCH, (OWNER & ROAD NAME) HARRIS COUNTY, SPRING STEUBNER ROAD
☐ OTHER (OWNER & OPERATOR)

IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFCD PCPM SUMMARY TABLE SEE SHEET C3.4 OF THESE PLANS.

DETENTION BASIN SERVICE AREA		acres	
STORM EVENT	50% EXCEEDANCE (2-YEAR)	10% EXCEEDANCE (10-YEAR)	1% EXCEEDANCE (100-YEAR)
MAXIMUM ALLOWABLE OUTFLOW (PRE-DEVELOPMENT PEAK FLOW)	9.5 CFS	9.5 CFS	9.5 CFS
MAXIMUM OUTFLOW PROVIDED (PEAK FLOW FROM BASIN)	0.0 CFS	0.25 CFS	9.24 CFS
LOWEST NATURAL/FINISHED GROUND OR FINISHED FLOOR ELEVATION ESTIMATE			
DESIGN WATER SURFACE ELEVATION	124.44	128.50	131.029
MINIMUM STORAGE REQUIRED (ac-ft)	6.96	18.66	28.62
DETENTION STORAGE PROVIDED (ac-ft)	6.96	18.66	28.62
STORAGE RATE PROVIDED (ac-ft/ac)	0.24	0.65	0.99
OUTFLOW VELOCITY INTO CHANNEL (ft/sec)	0.0	3.62	3.95
DRAIN TIME - 1% ONLY (hours)			
EMERGENCY OVERFLOW (TYPE, SIZE, ELEVATION, ETC.)	100 FT LENGTH @ 131.024 FT ELEVATION		

B. DETENTION BASIN TO BE MAINTAINED BY OWNER

C. DETENTION SERVICE AREA MAP ON SHEET C3.4

D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = 10.75 ACFT 37.55 % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = FT/SEC
DRAIN TIME FOR BASIN = HOURS BASED ON HEAD CONDITIONS

V. DETENTION PROVIDED IN OTHER PLANS:

HCFCD PROJECT No. 2208190122 DATE SIGNED BY HCFCD: 01/08/2025
PLAN TITLE HARMONY CITY PLACE
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET C3.0
ENGINEERING FIRM COBBFENDLEY
DETENTION BASIN MAINTAINED BY: OWNER

VI. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE: 24"
RESTRICTOR PIPE SIZE: 24"
RESTRICTOR PLATE DIMENSION: 14.1" diameter

VII. DETENTION PROVIDED BY

☐ REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.):

FOR PROJECTS LOCATED IN ANY FLOODPLAIN
Development constructed or placed in accordance with these plans will comply with all provisions of the designated Floodplain Administrator.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET C1.0 & C1.1 OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED .

TOTAL ACREAGE = 0
TOTAL DISCHARGE = 0

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. SWQ DISCHARGE INTO FCD FACILITY

I. SWPPP: CONSTRUCTION MEASURES. (Must complete)

☒ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S) C5.0 & C5.1
☐ DISTURBS <1AC. N/A

*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)

EXEMPT NEW DEVELOPMENT:
☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)

EXEMPT REDEVELOPMENT:
☐ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)

EXEMPT GRANDFATHERED:
☐ PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)

GENERAL:
☒ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: CITY OF HOUSTON
☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE:
HARRIS COUNTY PROJECT No & SWQ PERMIT No.

STORMWATER QUALITY MANAGEMENT PLAN:
☒ SITE PLAN ON SHEET(S) C3.5

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)

☐ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S)
☐ POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONSAPPEAR ON SHEET(S)
☐ HYDRODYNAMIC TYPE SEPARATOR MODEL:
☐ OTHER(S):

REFER TO PHASE I PLANS FOR DETENTION INFORMATION INCLUDING PUMP (HC P# 2208190122)

6. REPORTS/AGREEMENTS

I. HCFCD ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE 3,602-ACRE ELYSON DEVELOPMENT PHASE 2 (670 ACRES) DRAINAGE IMPACT STUDY
HCFCD PROJECT # 16122700029
ENGINEERING FIRM BGE
REPORT ACCEPTANCE DATE 12/4/2019.

GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE
HCFCD PROJECT #
ENGINEERING FIRM
REPORT ACCEPTANCE DATE

HCFCD APPROVED VARIANCE
DESCRIPTION OF VARIANCE
DOCUMENT ID #
VARIANCE ACCEPTANCE DATE

II. AGREEMENT TYPE & No.;

☐ INTERLOCAL (ILA):
☐ HCFCD MAINTENANCE
☐ TURF ESTABLISHMENT
☐ OTHER

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0255L
FIRM PANEL(S) DATE: JUNE 18, 2007
STATUS OF PROPERTY ON MAP
☒ ENTIRELY LOCATED IN UNSHADED ZONE "X"
☐ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____) (0.2% BASE FLOOD LEVEL_____)
☐ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET____

ELEVATION INFORMATION
BENCHMARK USED
☒ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
☐ HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSMENT *(2001 ADJ.)* FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FLAVEL, NORTH ALONG FLAVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STEUBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION

☒ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
☐ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY

(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).

A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) ____ CUBIC YARDS ____

B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) ____ CUBIC YARDS ____ INCLUDING CALCULATIONS)

C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET ____

5. WORK IN HCFCD RIGHT-OF-WAY

I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFCD ROW

A. BOND/NOTIFICATION INFORMATION
☐ HCFCD WATERSHED
☐ HCFCD UNIT No.
☐ NUMBER OF OUTFALLS
☐ UTILITY CROSSING
☐ ROADWAY BRIDGE/CULVERT CROSSING
☐ FILL ACTIVITY
☐ REHABILITATION OF CHANNEL
☐ MAINTENANCE
☐ TEMPORARY CROSSING
☐ TRAIL (LENGTH)
☐ OTHER
COST OF WORK IN HCFCD ROW

II. USACE ENVIRONMENTAL PERMIT

☐ US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S)
☐ US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
☐ OTHER
☐ NO PERMITS REQUIRED
EXPLAIN:

III. REFERENCE / BASIS OF DETERMINATION

☐ ENVIRONMENTAL CONSULTANT REPORT
BY
REPORT TITLE
REPORT DATE
☐ OTHER

NOTES:
I. – III. REQUIRED ON PROJECTS WITH WORK IN A HCFCD CHANNEL. PLEASE REFERENCE SECTION 1.7 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.

IV. HCFCD STANDARD NOTES: SEE SHEET _____ OF THESE PLANS.

V. HCFCD STANDARD DETAILS: SEE SHEET _____ OF THESE PLANS.

VI. HCFCD ACCESS PLAN: SEE SHEET _____ OF THESE PLANS.

VII. REFER TO THE FOLLOWING PLAN SHEETS:
FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFCD POLICY, CRITERIA, & PROCEDURE MANUAL (i.e., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFCD, PUBLIC, TXDOT, ETC.)

HCFCD SIGNATURE BLOCK

PROJECT NAME: HARMONY CITY PLACE - PHASE 2
ADDRESS: 2600 SPRING STEUBNER RD, SPRING, TEXAS 77389
WAS ACCEPTED BY HARRIS COUNTY FLOOD CONTROL DISTRICT FOR THE PURPOSES LISTED BELOW:

HARRIS COUNTY FLOOD CONTROL DISTRICT

INTERPOSE NO OBJECTION
BY
FOR ITEMS LOCATED OUTSIDE OF HCFCD RIGHT-OF-WAY
APPROVED:
BY
FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY
APPROVED:
BY
FOR ITEMS LOCATED WITHIN PROPOSED HCFCD RIGHT-OF-WAY
NO REVIEW REQUIRED:
BY Chris Bennett Digitally signed by Chris Bennett Date: 2026.01.17 18:02:15 -06'00' VG
FINAL PERMITTING BY OTHERS

ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, MICHAEL F.A. MAZZOLA, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.

ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS C0.0 THRU C6.3.

SIGNATURE 1/5/2026 DATE

SEAL: STATE OF TEXAS · MICHAEL F.A. MAZZOLA · 117109 · LICENSED PROFESSIONAL ENGINEER

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C.F.C.D APPROVED DATE

HARRIS COUNTY FLOOD CONTROL PROJECT NO. 2512150124

SHEET NUMBER 2 OF 23

HARRIS COUNTY
FLOOD CONTROL DISTRICT
REVIEW SHEET

VERSION 1.0 OCTOBER 2019

1. PAVING

(FOR H.C. PUBLIC R.O.W. ONLY)

	DESIGN THICKNESS OF PAVING	STABILIZED SUBGRADE DEPTH	DESIGN STRENGTH OF CONCRETE	STEEL SPACING		REINFORCE STEEL SIZE
				LONG.	TRANS	
CONCRETE	(IN.)	(IN.)	(PSI)	(IN.)	(IN.)	(#4 MIN.)

	DESIGN SURFACE COURSE THICKNESS	DESIGN SURFACE COURSE TYPE	DESIGN BASE COURSE THICKNESS	DESIGN BASE COURSE TYPE	STABILIZED SUBGRADE THICKNESS	STABILIZED SUBGRADE TYPE
ASPHALT	(IN.)	(MATERIAL)	(IN.)	(MATERIAL)	(IN.)	(MATERIAL)

DRIVEWAYS (in H.C. ROW only)

I. NUMBER OF DRIVEWAY APPROACHES PROPOSED INCLUDE WIDENING OR REPAVING EXISTING DRIVEWAYS AS WELL AS NEW DRIVEWAYS

DRWY	WIDTH	MATERIAL	CULVERT?	CULVERT LENGTH	NEAREST X-STREET	DIST. TO X-STREET
1						
2						
3						
4						
5						

II. HARRIS COUNTY STANDARD DRIVEWAY DETAIL APPEARS ON SHEET C6.3

FIRE APPARATUS ACCESS ROAD

[X] REQUIRED AND SHOWN ON SHEET(S) C0.5
[ ] NOT REQUIRED DUE TO _____

CURBING

I. ISLANDS, MEDIANS AND ALL AREAS NOT TAKING DIRECT DRIVEWAY ACCESS REQUIRES STANDARD 6" CURBING

II. [X] STANDARD 6" CURBING PROPOSED
[ ] 4" x 12" CURBING PROPOSED EXCEPT AT MEDIANS AND ISLANDS

TRAFFIC CONSIDERATIONS

I. MEDIAN CUTS
[X] NO MEDIAN CUT OR RELOCATION IS PROPOSED
[ ] MEDIAN MODIFICATIONS ARE SHOWN ON SHEET _____

II. LEFT / RIGHT TURN LANE
[X] NO LEFT / RIGHT TURN LANE IS PROPOSED
[ ] LEFT / RIGHT TURN LANE IS SHOWN ON SHEET _____

III. TRAFFIC CONTROL PLAN
[ ] NO WORK IN THE RIGHT OF WAY IS PROPOSED THAT WOULD INTERFERE WITH TRAFFIC FLOW
[X] TRAFFIC CONTROL SHOWN ON SHEET C8.0

IV. TRAFFIC SIGNAL
[X] NO TRAFFIC SIGNAL IS EXISTING / PROPOSED
[ ] EXISTING TRAFFIC SIGNAL DEVICES (T.C. BOXES AND LOOPS) SHOWN ON SHEET _____
[ ] PROPOSED TRAFFIC SIGNAL (BY OTHERS)

V. TRAFFIC IMPACT ANALYSIS
[ ] NO TRAFFIC IMPACT ANALYSIS IS REQUIRED
[X] TRAFFIC IMPACT ANALYSIS HAS BEEN APPROVED ON DATE: _____
PLAN TITLE: HARMONY CITY PLACE MIDDLE/HIGH SCHOOL TRAFFIC IMPACT ANALYSIS (PHASE 2)
HCPID PROJECT NO.: 2508190056

2. RESIDENTIAL / SUBDIVISION DRAINAGE

I. PROPOSED DRAINAGE SYSTEM TYPE
[ ] STORM SEWER
[ ] ROADSIDE DITCH
[ ] LOW IMPACT DEVELOPMENT (LID)

II. DESIGN METHOD USED
[ ] CITY OF HOUSTON _____ YEAR FREQUENCY
[ ] OTHER: _____

III. DRAINAGE SYSTEM OUTFALLS DIRECTLY TO EXISTING
[ ] DETENTION POND (APPROVED H.C. PRJ NO.): _____
DETENTION POND MAINTAINED BY: _____
[ ] HCFCD DRAINAGE DITCH UNIT NO.: _____
[ ] H.C. ROADSIDE DITCH (ROAD NAME): _____
[ ] H.C. STORM SEWER (APPROVED H.C. PRJ NO.): _____

IV. H.C. OUTFALL CALCULATIONS
[ ] ROADSIDE DITCH OUTFALL:
ALLOWABLE OUTFALL RATE: 0.0027 x _____ LF Frontage = _____ (CFS)
PROPOSED OUTFALL RATE: ____ (CFS), CALCULATIONS PROVIDED ON SHEET ___
[ ] STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
APPROVED H.C. PROJECT NO.: _____
ACTUAL OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ___

V. DETENTION PROVIDED BY
[ ] DETENTION BASIN IS PART THIS PLAN SET. SERVICE AREA MAP IS ON SHEET ___
[ ] REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.): _____

PROPOSED STORM SEWER IS SUBMERGED (AGREEMENT MUST BE PROVIDED).
STATIC W.S.E. @ OUTFALL IS _____.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMODATIONS ARE SHOWN ON SHEET C3.0 OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED N/A.

TOTAL ACREAGE = 0
TOTAL DISCHARGE = 0

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. COMMERCIAL / OTHER SITE DRAINAGE

I. PROPOSED DRAINAGE AREA
[ ] NEW DEVELOPMENT AREA: _____
[X] RE-DEVELOPMENT AREA (NET NEW DEVELOPED AREA): 1.66 AC
[ ] LOW IMPACT DEVELOPMENT (LID)

II. DETENTION VOLUME
NEW AREA 1.66 X * = 1.66 ACRE FEET
DETENTION REQUIRED
* [ ] .65 (CHANNEL)
* [ ] .75 (STM SWR)
* [X] 1.00 (RD. DITCH)
* [ ] OTHER: _____

PROPOSED DETENTION VOLUME = 30.58** ACRE FEET **TOTAL DETENTION PROVIDED ONSITE
PROPOSED DETENTION VOLUME CALCULATIONS ARE SHOWN ON SHEET C3.5

DETENTION VOLUME PROVIDED BY EXISTING DETENTION POND
APPROVED H.C. PROJECT NO.: 2208190121
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET C3.0 & C3.1

III. OUTFALL
OUTFALL TO [ ] H.C. ROADSIDE DITCH
[ ] EXISTING H.C. STORM SEWER
[X] OTHER EXISTING PRIVATE STORM SYSTEM. HC PRJ. NO. 2208190121
[ ] ROADSIDE DITCH OUTFALL:
ALLOWABLE OUTFALL RATE: 0.0027 x _____ LF Frontage = _____ (CFS)
PROPOSED OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ___
[ ] STORM SEWER OUTFALL
CAPACITY ALLOCATED TO TRACT FROM D. A. MAP: _____ (CFS)
FROM DRAINAGE AREA MAP DATED: _____
PREPARED BY: _____
APPROVED H.C. PROJECT NO.: _____
ACTUAL OUTFALL RATE: _____ (CFS), CALCULATIONS PROVIDED ON SHEET ___

IV. PUMPED DETENTION FACILITIES
VOLUME THAT GRAVITY FLOWS: _____ ACRE FEET
VOLUME THAT IS PUMPED: _____ ACRE FEET
ENTRANCE VELOCITY INTO ROADSIDE DITCH OR STORM SEWER: _____
PUMP SPECIFICATIONS AND AUTOMATIC SHUTOFF PLAN FOR ROADSIDE DITCH & STORM SEWER OUTFALLS APPEAR ON SHEET _____

V. FLOW RESTRICTOR SIZE
OUTFALL PIPE SIZE: _____
RESTRICTOR PIPE SIZE: _____

NOTE: ALL ROADSIDE DITCH OUTFALLS REQUIRE EROSION CONTROL MEASURES. RIPRAP IS NOT ALLOWED AS AN EROSION CONTROL MEASURE IN HARRIS COUNTY ROW. ALL PUMPED DETENTION OUTFALLS TO ROADSIDE DITCHES REQUIRE MANHOLE W/ LEADS.

4. WATER AND WASTEWATER

I. COMMERCIAL PROJECTS

DOES PROPERTY HAVE EXISTING AND/OR PROPOSED UTILITIES?
[X] YES [ ] NO

IF YES, CHECK THE BOX THAT APPLIES TO THIS PROJECT
[X] PUBLIC WATER & SANITARY
[ ] PRIVATE WATER WELL & SEPTIC SYSTEM
[ ] PUBLIC WATER & PRIVATE SEPTIC SYSTEM
[ ] PRIVATE WATER WELL & PUBLIC SANITARY

NOTE: PUBLIC UTILITIES REQUIRE A LETTER FROM THE DISTRICT/ MUNICIPALITY AUTHORIZING SERVICE & CONNECTION. THIS IS REQUIRED FOR PLAN APPROVAL.

UTILITY DISTRICT/MUNICIPALITY NAME: HCID NO. 18

NOTE: SEPTIC SYSTEMS REQUIRE H.C. WASTE WATER REVIEW

H.C. SEPTIC PERMIT/REQUEST NO. _____

NOTE: ALL EXISTING AND PROPOSED UTILITIES MUST BE ACCURATELY SHOWN & LABELED ON THE SITE PLANS.

II. SUBDIVISION PROJECTS
[ ] UTILITY DISTRICT/MUNICIPALITY NAME: _____
[ ] PRIVATE WATER & WASTE WATER SYSTEMS
[ ] PRIVATE WATER & INDIVIDUAL OSSF
[ ] INDIVIDUAL WATER WELL & OSSF

NOTE: A COPY OF TCEQ APPROVAL FOR PRIVATE WATER & WASTE WATER SYSTEMS IS REQUIRED FOR PLAN APPROVAL.

NOTE: DEDICATED UNDERGROUND FIRE LINES MUST BE SUBMITTED TO THE HARRIS COUNTY FIRE PROTECTION GROUP FOR REVIEW AND PERMITTING BY THE UNDERGROUND FIRE LINE CONTRACTOR. CIVIL REHVIEW DOES NOT REVIEW OR APPROVE UNDERGROUND FIRE LINES FOR THE FIRE PROTECTION SYSTEMS.

WASTEWATER TREATMENT PLANTS

H.C. WWTP REVIEW:

IS THE PROPOSED PROJECT A NEW WWTP SITE OR A REHAB/EXPANSION OF AN EXISTING WWTP SITE? YES [ ] NO [ ]

IF YES, IS A HARRIS COUNTY DOMESTIC WASTEWATER TREATMENT PLANT EXPRES REVIEW SHEET ATTACHED AND COMPLETED ACCORDING TO INSTRUCTIONS? YES [ ] NO [ ]

REFER TO:
WWW.ENG.HCTX.NET/PERMITS/WASTEWATER/REGULATIONS-STANDARDS-DETAILS FOR DOMESTIC WWTP ERS FORM

10. PERMITS REQUIRED

DOES THE PROPERTY HAVE ANY VIOLATIONS? IF SO PLEASE PROVIDE ALL VIOLATION NUMBERS. NO

[ ] STORM WATER QUALITY
[ ] SEPTIC (EXISTING) [ ] SEPTIC (PROPOSED)
[X] CIVIL SITE WORK (PHASE II PERMIT CLASS I (non-floodplain))
[ ] CIVIL SITE WORK (PHASE II PERMIT CLASS II (floodplain))
[X] DRIVEWAY WITH CULVERT 1 CURB AND GUTTER X
[X] BUILDING PERMITS (NO. OF BUILDINGS = 1) [X] CRITICAL FACILITY
[ ] SUBDIVISION INFRASTRUCTURE PHASE II (NO. OF LOTS = _____)
[X] NOTICE OF DETENTION AFFIDAVIT REQUIRED
[ ] MUD MAINTENANCE AGREEMENT REQUIRED
NOTES: _____

~~WORK IN HARRIS COUNTY R.O.W.~~
[ ] UTILITY WORK _____
[ ] TURN LANE _____
[ ] OTHER CONSTRUCTION _____

NOTES:
A PERMIT IS REQUIRED FOR EACH SCOPE OF WORK ON SITE.
A R.O.W. NOTIFICATION IS REQUIRED FOR EACH SCOPE OF WORK IN HC OR HCFCD ROW.
REFER TO www.eng.hctx.net/permits FOR EACH SCOPE OF WORK IN HC OR IN HCFCD ROW.

*NOTE:
ACCORDING TO AS-BUILT DRAWINGS FOR SPRING STUEBNER ROAD, SECTION C, DATED APRIL 2012, A 4' X 2' BOX CULVERT DOWNSTREAM OF THE HARMONY CITY PLACE DEVELOPMENT WAS THE LIMITING FACTOR IN DETERMINING THE ALLOWABLE OUTFALL TO THE ROADSIDE DITCH AND SUBSEQUENTLY THE CULVERT ITSELF. THIS CULVERT WAS DETERMINED TO HAVE A CAPACITY OF 28.5 CFS, PER THE AS-BUILT DRAWINGS. THE HARMONY CITY PLACE TRACT COMPRISES ONE-THIRD OF THE OVERALL CONTRIBUTING AREA OF THIS CULVERT. AS SUCH, THE PRO-RATA SHARE OF THE CULVERT CAPACITY DEDICATED TO HARMONY CITY PLACE IS 9.5 CFS. NOTE THAT THIS ALLOWABLE RELEASE RATE IS SIGNIFICANTLY LESS THAN THE ACTUAL EXISTING CONDITION FLOW RATE FROM THE SUBJECT TRACT.*

BENCHMARK REQUIREMENTS FOR PROPOSED BRIDGES AND OR NEW RESIDENTIAL SUBDIVISIONS

When the County Engineer has determined that a new benchmark will be required to be established for the proposed project, the developer shall be required to install a benchmark per section 8.0, part 2 of the Harris County Infrastructure Regulations.

Is a new Benchmark required for this project? (*to be determined by Harris County*) [ ] yes [X] no

If a new Benchmark is required, the proposed benchmark information is shown on sheets ____

5. DESCRIPTION OF PROPERTY

I. LEGAL DESCRIPTION
A. ACREAGE: 28.89 AC
B. [X] SUBDIVISION: RES A BLK 1 SPRINGWOOD VILLAGE DISTRICT SEC 6
[ ] SURVEY & ABSTRACT: SPRINGWOODS REALTY, INC.
CALLED ALL OF THE LAND LOCATED WITHIN THE F. LIMSKY SURVEY. ABSTRACT NUMBER 512
FILE NO. 20140581329 F.C. NO. 093-65-0334 O.P.R.R.P.H.C.
C. ADJACENT ROADS: SPRING STEUBNER RD.

II. PLATTING
A. SUBDIVISION PLAT
[ ] PROPOSED PLAT / REPLAT
[X] RECORDED PLAT / REPLAT
PLAT NAME: SPRINGWOODS VILLAGE DISTRICT SECTION 6
B. STREETS PROPOSED
[ ] PUBLIC
[ ] PRIVATE
[ ] PUBLIC & PRIVATE
[X] NONE

III. JURISDICTIONS
[ ] CITY OF _____
[X] ETJ, CITY OF HOUSTON
[ ] ETJ, CITY OF _____
[ ] NO ETJ

IV. HCAD ACCOUNT NOS. (ALL) KEY MAP PAGE 292-J
1440310010001

V. UNOBSTRUCTED VISIBILITY EASEMENT (U.V.E.)
[ ] REQUIRED AND SHOWN ON SHEET(S) _____
[X] NOT REQUIRED

NOTE: ALL APPROVED, FINAL PLATS AND ASSOCIATED CPC101 FORMS MUST BE INCLUDED WITH PLAN SUBMITTAL.
[ ] CONFORMING SUBDIVISION
[X] NON-CONFORMING SUBDIVISION
[ ] PARTIALLY NON-CONFORMING SUBDIVISION

6. STORMWATER QUALITY

I. SWPPP: CONSTRUCTION MEASURES. (Complete for ALL projects)
[X] DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S) C3.6
[ ] DISTURBS <1AC. N/A

II. APPLICABILITY FOR PERMANENT FEATURES. (must be completed on all projects)
EXEMPT NEW DEVELOPMENT:
[ ] PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (must be verified with plat)
EXEMPT REDEVELOPMENT:
[ ] PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A, Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)
EXEMPT GRANDFATHERED:
[ ] PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.
(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)
GENERAL:
[X] PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: HARRIS COUNTY
[X] STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE: HARMONY CITY PLACE
HARRIS COUNTY PROJECT NO. 2208190121 & SWQ PERMIT NO. 2208190121-SWQP-001
STORMWATER QUALITY MANAGEMENT PLAN:
[X] SITE PLAN ON SHEET(S) C3.6

III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)
[ ] VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) _____
[X] POND STRUCTURE USED (WET, (DRY) WETLANDS) DETAILS AND CALCULATIONS APPEAR ON SHEET(S) C3.5, C3.4
[ ] HYDRODYNAMIC TYPE SEPARATOR MODEL: _____
[X] OTHER(S): TRASH SCREEN AS SHOWN ON C3.5

7. FLOOD PLAIN STATUS

I. GENERAL INFORMATION
FIRM PANEL(S) FOR PROPERTY: 48201C0255L
FIRM PANEL(S) DATE: JUNE 18, 2007
STATUS OF PROPERTY ON MAP
[X] ENTIRELY LOCATED IN UNSHADED ZONE "X"
[ ] LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO._____) (1% BASE FLOOD LEVEL_____) (0.2% BASE FLOOD LEVEL_____)
[ ] SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO._____ REVISED FLOODPLAIN IS SHOWN ON SHEET_____
ELEVATION INFORMATION
BENCHMARK USED
[X] HARRIS COUNTY FLOODPLAIN REFERENCE MARK
[ ] HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT *(2001 ADJ.)* 100315

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION
[ ] PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
[ ] PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

III. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FLOODPLAIN AS DELINEATED BY FIRM PANEL).
A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
BELOW 0.2% BASE FLOOD ELEVATION _____ (2001 ADJ.) _____ CUBIC YARDS
B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:
BELOW 0.2% BASE FLOOD ELEVATION _____ (2001 ADJ.) _____ CUBIC YARDS
C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET _____

IV. [ ]LOMR REQUIRED [ ]CLOMR REQUIRED VERIFIED BY: _____

8. CURB RAMPS

A. ARE CURB RAMPS THAT CONNECT TO PUBLIC STREETS PROPOSED IN THIS SET OF PLANS? [ ] YES [X] NO

9. LANDSCAPING

[X] REQUIRED AND SHOWN ON SHEET(S) L1.1 - L3.4
[ ] NOT REQUIRED

FOR PROJECTS LOCATED IN ANY FLOODPLAIN

Development constructed or placed in accordance with these plans will comply with all provisions of the Regulations of Harris County, Texas for Floodplain Management.

No net fill is allowed in the flood plain and no fill is allowed in the floodway.

FOUNDATION NOTES: (*Applies to only buildings or building additions requiring a class II permit*)

All water heaters, furnaces, air conditioning units, electrical distribution panels, and any other mechanical or electrical equipment must be elevated in accordance with Section 4.05 of Harris County Floodplain regulations.

Any electrical circuit serving a light switch or outlet located below the base (100-year) flood elevation shall be dropped from above and be on a separate breaker.

All materials used below the (100-year) base flood elevation are on approved FEMA Technical Bulletin 2-08 as Class 5 water-resistant, and approved in accordance with FEMA Technical Bulletin 1-08 for foundation openings.

Critical facilities located in the 0.2% or 500yr floodplain or 1% or 100yr floodplain shall have the lowest floor elevated to 3 feet or more above the 0.2% flood elevation, or 24 inches above the crown of the adjacent road, which ever results in a higher elevation.

Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters.

Access routes elevated to or above the level of the base flood shall be provided to all critical facilities to the extent possible.

A completed as-built certificate must be submitted after the structure is complete and before it is occupied.

The County Engineer's Office will post a final inspection notice on the structure once all requirements have been met.

No fill may be used to elevate structures in the 1% or 100yr flood plain. Structures may be constructed on an open foundation, such as piers, or on continuous foundation walls with properly sized and located openings. All foundations are required to be designed by a registered professional engineer.

All structures shall be designed to withstand a three second gust basic wind speed of 120mph.

*Completed **"Elevation Certificates** to be submitted: one at permitting, a second after the slab is poured or sub-floor is installed and before the framing starts, and a third is required once construction is finished. *(PER CURRENT FIRM PANEL) to the Harris County Engineering Department, 10555 Northwest Freeway, Suite 120, Houston, TX 77092*

HARRIS COUNTY ENGINEERING DEPARTMENT - PERMIT OFFICE NOTE:

THE PERMIT MANAGER SIGNATURE REPRESENTS THE FOLLOWING:
- THE COMPLETION OF REVIEW OF THESE PLANS
- INTERPOSE NO OBJECTION TO THE PROPOSED DESIGN ON PRIVATE PROPERTY
- APPROVAL OF WORK IN HARRIS COUNTY MAINTAINED RIGHT OF WAY
- APPROVAL OF WORK IN PROPOSED HARRIS COUNTY RIGHT OF WAY THAT IS TO BE ACCEPTED BY THE COUNTY

HCED SIGNATURE BLOCK:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, MICHAEL F.A. MAZZOLA, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE. I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS IN THEIR ENTIRETY ARE DESIGNED PER THE HARRIS COUNTY ENGINEERING STANDARDS, REGULATIONS, AND GUIDELINES UNLESS PROVIDED A VARIANCE BY THE COUNTY ENGINEER OR HIS DESIGNEE. SHOULD IT BE DEEMED BY HCED STAFF, THAT THE PLANS DO NOT MEET THE COUNTY'S STANDARDS, REGULATIONS AND GUIDELINES AND DID NOT RECEIVE AN APPROVED VARIANCE, THE APPROVAL OF SAID PLANS BECOMES NULL AND VOID AND THE DESIGN PLANS MUST BE CORRECTED AT NO CHARGE TO THE COUNTY.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS C0.0 THRU C6.3

SEAL — STATE OF TEXAS — MICHAEL F.A. MAZZOLA — 117109 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE Michael Mazzola DATE 6/25/2026

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY.

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C. APPROVED DATE

HARRIS COUNTY
ENGINEERING DEPARTMENT
REVIEW SHEET

VERSION 20.0 MAY 27, 2020

HC PROJECT NO. 2512150121 HCFCD PROJECT NO. 2512150124 SHEET NUMBER 3 OF 23

HARRIS COUNTY ENGINEERING REVIEW SHEET

C0.2

GENERAL NOTES:

1. BOUNDARY INFORMATION SUPPLIED BY COBB, FENDLEY & ASSOCIATES, INC.
2. ELEVATION SURVEY INFORMATION SUPPLIED BY COBB, FENDLEY & ASSOCIATES, INC.

3. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY ALL GOVERNING AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT PRIOR TO STARTING CONSTRUCTION.
(A) CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION, WHEN APPLICABLE.
(B) CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING UTILITY AND/OR CULVERT CONSTRUCTION WITHIN HARRIS COUNTY ROAD RIGHT OF WAY, WHEN APPLICABLE. (C) CONTRACTOR SHALL NOTIFY TxDOT A MINIMUM 72 HRS. PRIOR TO CONSTRUCTING WITHIN TxDOT R.O.W. TO SCHEDULE REQUIRED INSPECTIONS, REFER TO TxDOT DRIVEWAY APPROACH PERMIT FOR DETAILS, WHEN APPLICABLE.

4. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL THE CONTRACTOR PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

5. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS ON THE SITE USING THE PROJECT TBM PROVIDED ON THE CONSTRUCTION PLANS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

6. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL PROPOSED "POINTS OF CROSSING" TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY ENGINEER AT 713-462-3242 AT ONCE OF ANY CONFLICTS. THE CONTRACTOR SHALL NOT MAKE ANY FIELD MODIFICATIONS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. THIS APPROVAL MUST BE OBTAINED BEFORE RESUMING ANY CONSTRUCTION IN THE AFFECTED AREA.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

8. AT LEAST 48 HOURS PRIOR TO EXCAVATING, AND/OR AUGURING IN PUBLIC RIGHT-OF-WAY OR EASEMENTS, CONTRACTOR SHALL NOTIFY "TEXAS ONE-CALL SYSTEM" AT 1-800-245-4545 TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITY LINES.

9. ALL CLEARING, GRUBBING, STRIPPING, EXCAVATION, FILL, COMPACTION, PAVEMENT AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY UES PROFESSIONAL SOLUTIONS 44., PROJECT NUMBER H251104, DATED JULY 31, 2025, ENTITLED, "HARMONY AT CITY PLACE PHASE 2". EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.

10. DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM MATERIALS TESTING DURING THE CONSTRUCTION.

11. CONTRACTOR SHALL COMPLY WITH ALL CURRENT AND APPLICABLE OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, TRENCHING AND SHORING.

12. CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY LINES. ALL EXISTING UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN AT THE APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD DETERMINE THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND MAINTAIN THESE UNDERGROUND UTILITIES.

13. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

14. WHERE CONCRETE CURB OR WALK IS INDICATED, ELEVATION SHALL BE 6-INCHES ABOVE TOP OF PAVEMENT ELEVATION SHOWN. COORDINATE WITH ARCHITECTURAL SITE PLAN.

15. THE WORK AREA SHALL BE BARRICADED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.

16. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET APPROPRIATE REQUIREMENTS ESTABLISHED IN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY & HEALTH REGULATIONS, 29 CFR 1926, SUBPART P - EXCAVATIONS, TRENCHING AND SHORING, AND OSHA'S PROPOSED STANDARDS ON TRENCHING, EXCAVATION PUBLISHED IN VOLUME 52, NO. 72 OF THE FEDERAL REGISTER, APRIL 15, 1987, PAGES 12288-12339, SHOULD THE REFERENCED OSHA STANDARDS BE MODIFIED OR AMENDED, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

17. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS SHOWN.

18. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES, WHEN REQUIRED, IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.

19. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION, TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF AND MOVED, CALL HL&P AT 713-207-7777.

20. CAUTION: UNDERGROUND GAS FACILITIES
CENTERPOINT ENERGY, ENTEX MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST IN STREET RIGHT-OF-WAY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

21. THE LOCATIONS OF AT&T UTILITIES ARE SHOWN IN AN APPROXIMATE AREA. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

22. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, TREES, ETC., WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT.

23. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. CARE SHOULD BE TAKEN BY THE CONTRACTOR NOT TO INCREASE THESE FINISHED GRADES WITH LANDSCAPING OR OTHER ALTERATIONS. THE THICKNESS OF SOD, GRASS AND LANDSCAPING MATERIALS SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS IN THESE PLANS IN ORDER TO DETERMINE THE GROUND ELEVATIONS DURING CONSTRUCTION.

24. DURING THE CONSTRUCTION OF THESE IMPROVEMENTS, ANY INTERPRETATION OF THIS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY MATTER WHICH REQUIRES THE APPROVAL OF THE OWNER MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES. ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE WHICH ARE MADE DURING THE BIDDING PHASE WILL HAVE NO BEARING ON THE DECISION.

25. REFER TO SITE PLAN FOR HORIZONTAL DIMENSIONS.

26. THE CONTRACTOR SHALL NOT USE THE DIMENSIONS ON THE DIMENSIONED CONTROL PLAN FOR BIDDING PURPOSES.

STORM SEWER LINE

1. STORM SEWER CONSTRUCTION SHALL COMMENCE AT THE POINT OF CONNECTION TO THE PUBLIC STORM SEWER SYSTEM AND PROCEED UPSTREAM.

2. CONTRACTOR TO ALLOW A MINIMUM OF 6-INCHES OF VERTICAL CLEARANCE BETWEEN THE STORM SEWER AND OTHER EXISTING OR PROPOSED UTILITIES.

3. ADJUST EXISTING MANHOLE RIMS TO MATCH NEW GROUND AND/OR NEW PAVEMENT ELEVATIONS. PROPOSED MANHOLES, GRATE INLETS, JUNCTION BOX COVERS LOCATED WITHIN PAVED AREAS SHALL BE SET FLUSH WITH PAVEMENT.

4. ALL STORM SEWERS SHALL BE BEDDED AND BACK FILLED IN ACCORDANCE WITH CITY OF HOUSTON REQUIREMENTS AND THE DETAILS CONTAINED IN THESE PLANS.

5. ALL STORM SEWER PIPE, 24-INCHES IN DIAMETER OR LESS, SHALL BE PVC-SDR 35 OR SHALL BE SURE-LOK RIBBED STORM DRAIN PIPE AS MANUFACTURED BY HANCOR MEETING AASHTO M294 TYPE S OR APPROVED EQUAL. ALL RCP STORM SEWER PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76 FOR CLASS III WALL THICKNESS WITH RUBBER GASKETS CONFORMING TO ASTM C-443.

6. THE CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION.

7. ALL INLETS AND JUNCTION BOXES SHALL HAVE A TRAFFIC DUTY GRATE OR COVER UNLESS OTHERWISE NOTED.

SANITARY SEWER

1. CONTRACTOR SHALL COORDINATE SANITARY SEWER CONSTRUCTION WITH OTHER UNDERGROUND LINES TO AVOID CONFLICTS.

2. SANITARY SEWER LINES SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CITY OF HOUSTON RULES AND REGULATIONS.

3. SANITARY SEWER LINE TO BE CONSTRUCTED TO WITHIN FIVE (5) FEET OF BUILDING BY SITE CONTRACTOR. SEE PLUMBING DRAWINGS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.

4. INSTALLATION OF WASTEWATER LINES SHALL BEGIN AT THE TAP TO THE PUBLIC WASTEWATER SYSTEM AND PROGRESS UPSTREAM. WASTEWATER LINES SHALL BE EXTENDED TO SERVICE ENTRANCE INTO BUILDING(S).

5. SANITARY SEWER PIPE AND FITTINGS FOR 6-INCH AND SMALLER SHALL BE POLYVINYL-CHLORIDE (PVC) SCHEDULE 40, CONFORMING TO ASTM SPECIFICATION D-1785, D2665, SANITARY SEWER PIPE MATERIAL AND FITTINGS FOR 8-INCH AND LARGER SHALL BE POLYVINYL-CHLORIDE (PVC) SDR-26, CONFORMING TO ASTM SPECIFICATION D-3034.

6. ALL SANITARY SEWERS SHALL RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH THE DETAILS CONTAINED IN THESE PLANS.

7. WATER LINE, SANITARY MANHOLE AND SANITARY SEWER MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE (9) FEET OF CLEARANCE IN ANY DIRECTION FROM ANY EXISTING OR PROPOSED WATER LINE. WHERE THE NINE (9) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, FOLLOW THE SPECIAL PROCEDURES FROM THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.

8. CONTRACTOR SHALL CONTACT THE CITY OF HOUSTON PRIOR TO STARTING CONSTRUCTION TO PAY ALL FEES AND TO ARRANGE FOR REQUIRED INSPECTIONS AND SERVICE TAPS.

9. EXTEND ALL EXISTING AND PROPOSED UTILITY MANHOLES, BOXES, COVERS, ETC. TO PROPOSED FINISH GRADE, UNLESS APPROVED OTHERWISE.

PERMANENT EROSION CONTROL:

ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:

(A) A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK AND BETWEEN THE CURB AND RIGHT-OF-WAY LINE.

(B) THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION IN CONFORMANCE WITH THE CITY OF HOUSTON OR HARRIS COUNTY SPECIFICATION FOR BROADCAST SEEDING OR HYDRAULIC SEEDING AND ASSOCIATED SPECIFICATIONS FOR MULCHING.

(C) THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES, THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS RAINFALL OCCURRENCES OF ½ INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK. (COORDINATE WITH IRRIGATION PLAN).

(D) RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 15 SQUARE FEET EXIST.

(E) SEEDING SHALL APPLY TO ALL AREAS WITHIN DISTURBED PROJECT AREA NOT COVERED BY PAVEMENT, BUILDING PAD, OR PROJECT LANDSCAPING PLANS INCLUDING RIGHT-OF-WAYS AND OFFSITE EASEMENTS.

(F) AT LEAST TWO SEEDINGS SHOULD OCCUR DURING PROJECT. THEY SHOULD OCCUR WITHIN 14 DAYS AFTER PONDS (AS APPLICABLE) ARE GRADED AND PRIOR TO FINAL PUNCH LIST.

GRADING NOTES

1. CONTRACTOR SHALL ENSURE THAT CONSTRUCTED SLOPES AND ELEVATIONS COMPLY WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION REQUIREMENTS FOR ACCESSIBILITY. GRADES SHOWN HEREON HAVE BEEN CAREFULLY SELECTED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS. THE FOLLOWING SHALL BE CONSIDERED DURING CONSTRUCTION.

2. TOP OF WALK OR TOP OF LANDING ELEVATIONS AT BUILDING ENTRANCES/EXITS SHALL BE 1/4" MAXIMUM BELOW FINISHED FLOOR ELEVATION.

3. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. CARE SHOULD BE TAKEN BY THE CONTRACTOR NOT TO INCREASE THESE FINISHED GRADES WITH LANDSCAPING OR OTHER ALTERATIONS. THE THICKNESS OF SOD, GRASS AND LANDSCAPING MATERIALS SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS IN THESE PLANS IN ORDER TO DETERMINE THE GROUND ELEVATIONS DURING CONSTRUCTION.

4. ALL PROPOSED TOP OF CURB ELEVATIONS SHALL BE 6" ABOVE TOP OF PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.

5. ALL PAVEMENT SHOWN ON THIS PLAN TO HAVE 6" CURBING AT EDGES OF PAVEMENT UNLESS OTHERWISE NOTED.

6. CONTRACTOR SHALL REMOVE TOP 4" OF SOIL COVER FROM PROPOSED AREAS FOR PAVEMENT AND BUILDING. STRIPPED SOIL SHALL BE STOCKPILED.

7. CONTRACTOR SHALL REMOVE TOP 4" OF SOIL COVER AND PLACED PER NOTE 8. REMAINING SOIL TO BE REMOVED FROM SITE PAVEMENT AND BUILDING AREAS SHALL BE STOCKPILED SEPARATELY.

8. STRIPPINGS STOCKPILE AND SOIL STOCKPILE ABOVE SHALL BE COMPRISED OF SOIL ONLY. NO CONCRETE, LIMBS, PAPER, WOOD, OR OTHER MISCELLANEOUS DEBRIS OR CONSTRUCTION WASTE MAY BE PLACED IN EITHER STOCKPILE.

9. AREAS INDICATED AS GRADE TO DRAIN SHALL HAVE A MINIMUM SLOPE OF 1% TOWARDS AN INLET OR SWALE.

10. THE CONTRACTOR SHALL VERIFY THAT SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES, MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE. IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER, PAVING INSTALLED SHALL "FLUSH OUT" AT ANY
JUNCTURE WITH EXISTING PAVING.

11. ALL PROPOSED CONTOURS, WHERE APPLICABLE, ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.

12. SIDEWALKS ADJACENT TO THE PROPOSED BUILDING SHALL HAVE A CROSS SLOPE OF 2% AWAY FROM THE BUILDING UNLESS INDICATED OTHERWISE ON THE GRADING PLAN.

13. ALL AREAS TO BE FILLED SHALL BE DONE WITH CLEAN SUITABLE MATERIAL COMPACTED IN 6 INCH LIFTS TO 98% DENSITY AS DETERMINED BY AASHTO T-180 IF GEOTECHNICAL REPORT DOES NOT SPECIFY.

14. ALL FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.

15. ALL SLOPES STEEPER THAN 3:1 SHALL BE OVERLAIN WITH CURLEX BLANKET AND SYSTEM ANCHORED PER MANUFACTURERS RECOMMENDATIONS, OR SHALL BE SODDED IF INDICATED ON GRADING PLAN OR SWPPP.

16. ALL AREAS DISTURBED SHALL BE RESTORED AND GRADED TO DRAIN.

FRANCHISE UTILITIES

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 945-8036 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATED THEM PRIOR TO BEGINNING ANY CONSTRUCTION, TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE A PERSON OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 (TEN) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY
NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769.

WARNING: AT&T TEXAS/SWBT FACILITIES

1. THE LOCATION OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T/SWBT FACILITIES.

4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

5. THE PRESENCE OR ABSENCE OF OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOW ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.

6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713) 567-4552 OR EMAIL HIM AT **rl7259@att.com,** IF THERE ARE ANY QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUT AT&T TEXAS/SWBT FACILITIES.

PAVING AND STRIPING NOTES

1. PAVEMENT DESIGN AND SOIL PREPARATION RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT PREPARED BY UES PROFESSIONAL SOLUTIONS 44., PROJECT NUMBER H251104, DATED JULY 31,2025, ENTITLED, "HARMONY AT CITY PLACE PHASE 2",SHALL BE ADHERED TO FOR BOTH MATERIALS AND PRACTICE OF INSTALLATION.

2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS" MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.) AND CITY STANDARDS.

3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, ROADWAY LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AS SHOWN ON THE PLANS.

4. ALL JOINTS SHALL EXTEND THROUGH THE CURB.

5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.

7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.

8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER.

9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.

10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. & T.A.S) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT, UNLESS A HANDRAIL IS INDICATED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.

11. DO NOT UNLOAD OR USE ANY HEAVY CONSTRUCTION EQUIPMENT ON NEW CONCRETE FOR AT LEAST 7 DAYS AFTER CONCRETE IS POURED.

12. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK SUCH THAT UTILITIES ARE INSTALLED PRIOR TO PAVEMENT BASE BEING INSTALLED.

13. ALL CONCRETE PAVING AND FLATWORK SHALL BE CURED IN CONFORMANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES.

14. NO VEHICULAR TRAFFIC IS ALLOWED ON CONCRETE REINFORCEMENT UNTIL PAVEMENT IS POURED AND CURED.

15. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TEMPORARY CLOSURE OF ANY PUBLIC ROADWAY TO FACILITATE CONSTRUCTION OF NEW PARCEL DRIVEWAY/CURBCUT, INCLUDING BUT NOT LIMITED TO: PERMITTING, TEMPORARY TRAFFIC SIGNS, TRAFFIC BLOCKAGE, COORDINATION/APPROVAL FROM LOCAL TRAFFIC ENGINEER, ETC.

TREE NOTE:

TREES AND TREE CANOPIES IN THE RIGHT OF WAY OR ON ADJACENT PROPERTIES ARE TO BE PROTECTED. CONTRACTOR WILL TAKE APPROPRIATE MEASURES TO PROTECT THE EXISTING TREES, TREE CANOPIES, AND ROOT ZONES OF EXISTING TREES NOT SCHEDULED FOR REMOVAL. ANY TRIMMING OR MAINTENANCE OF THE TREES IS TO BE APPROVED BY THE ARCHITECT AND THE OWNER PRIOR TO ANY WORK BEING PERFORMED. A PRECONSTRUCTION MEETING TO REVIEW TREE PROTECTION MEASURES ON-SITE WITH ARCHITECT, LANDSCAPE ARCHITECT, AND OWNER'S REPRESENTATIVE IS REQUIRED PRIOR TO SITE MOBILIZATION.

ACCESSIBILITY NOTES:

1. CONTRACTOR SHALL ENSURE THAT CONSTRUCTED SLOPES AND ELEVATIONS COMPLY WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION REQUIREMENTS FOR ACCESSIBILITY. GRADES SHOWN HEREON HAVE BEEN CAREFULLY SELECTED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS, THE FOLLOWING SHALL BE CONSIDERED DURING CONSTRUCTION.

2. ALL ACCESSIBLE SPACES AND ACCESSIBLE ROUTES SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND CITY REQUIREMENTS.

3. ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.

4. ACCESSIBLE ROUTES MAY HAVE LONGITUDINAL SLOPES UP TO 5% (SEE NOTE 8 FOR SLOPES GREATER THAN 5%)

5. WHERE AN ACCESSIBLE ROUTE CHANGES DIRECTION AND AT ALL POINTS OF BUILDING EGRESS, A 5'x5' MINIMUM LANDING SHALL BE PROVIDED WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.

6. TOP OF WALK OR TOP OF LANDING ELEVATIONS AT BUILDING ENTRANCES/EXITS SHALL BE A MAXIMUM OF 1/4" BELOW FINISHED FLOOR ELEVATION.

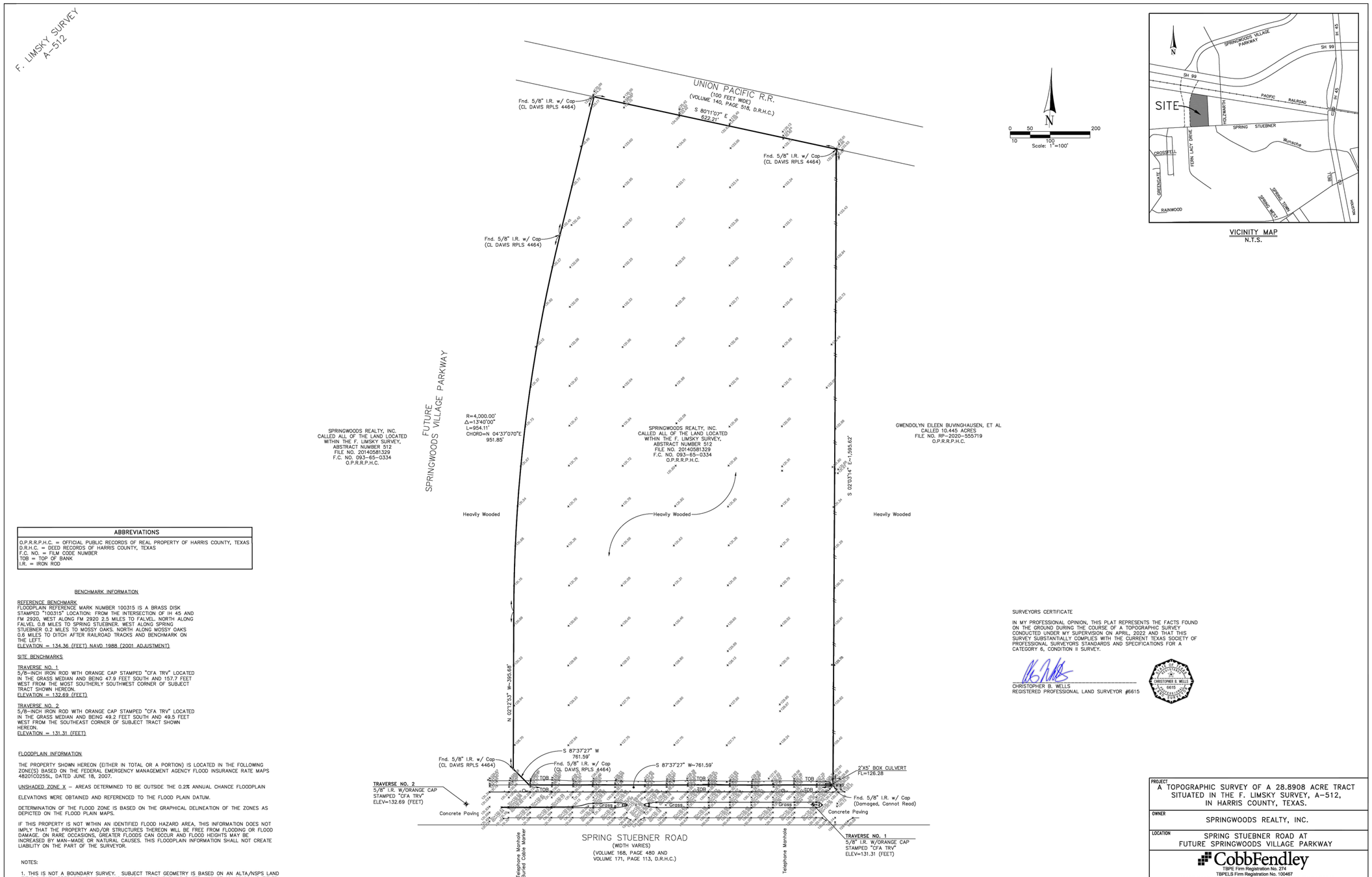
7. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS. CURB RAMPS COMPLYING WITH TAS SECTION 4.7 SHALL BE PROVIDED AT ALL PASSENGER LOADING ZONES.

8. ALL RAMPS SHALL BE MAXIMUM 1 VERTICAL UNIT FOR EVERY 12 HORIZONTAL UNITS (8.33%). ALL RAMPS MUST HAVE 5'x5' LANDING WITH MAXIMUM 2% SLOPE AT THE TOP AND BOTTOM. RAMP RUNS RISING MORE THAN 6 INCHES VERTICAL REQUIRE HANDRAILS.

9. SLOPES OF CURB RAMPS SHALL COMPLY WITH TAS SECTION 4.8.2. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.

10. EACH ACCESSIBLE PARKING SPACE SHALL BE DESIGNATED AS RESERVED BY A VERTICALLY MOUNTED OR SUSPENDED SIGN SHOWING THE SYMBOL OF ACCESSIBILITY PER TAS SECTION 4.30.7. SPACES COMPLYING WITH TAS SECTION 4.1.2(5)(B) SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.

(A) CHARACTERS AND



VICINITY MAP
N.T.S.

ABBREVIATIONS
O.P.R.R.P.H.C. = OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS D.R.H.C. = DEED RECORDS OF HARRIS COUNTY, TEXAS F.C. NO. = FILM CODE NUMBER TOB = TOP OF BANK I.R. = IRON ROD

BENCHMARK INFORMATION

REFERENCE BENCHMARK
FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL, NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.
ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARKS

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 131.31 (FEET)

FLOODPLAIN INFORMATION

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

UNSHADED ZONE X – AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

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NOTES:

1. THIS IS NOT A BOUNDARY SURVEY. SUBJECT TRACT GEOMETRY IS BASED ON AN ALTA/NSPS LAND TITLE SURVEY PREPARED BY C.L. DAVIS & CO. LAND SURVEYING DATED AUGUST 19, 2019 AND TITLED "28.8908 ACRES OUT OF F. LIMSKY SURVEY, ABSTRACT 512 HARRIS COUNTY, TEXAS AND LOCATION SHOULD BE CONSIDERED APPROXIMATE.

2. ALL FIELD TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AN "ON-THE-GROUND" SURVEY PERFORMED IN THE MONTH OF APRIL, 2022.

SURVEYORS CERTIFICATE

IN MY PROFESSIONAL OPINION, THIS PLAT REPRESENTS THE FACTS FOUND ON THE GROUND DURING THE COURSE OF A TOPOGRAPHIC SURVEY CONDUCTED UNDER MY SUPERVISION ON APRIL, 2022 AND THAT THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION II SURVEY.

CHRISTOPHER B. WELLS
REGISTERED PROFESSIONAL LAND SURVEYOR #6615

STATE OF TEXAS
CHRISTOPHER B. WELLS
6615
REGISTERED PROFESSIONAL LAND SURVEYOR

PROJECT	A TOPOGRAPHIC SURVEY OF A 28.8908 ACRE TRACT SITUATED IN THE F. LIMSKY SURVEY, A-512, IN HARRIS COUNTY, TEXAS.		
OWNER	SPRINGWOODS REALTY, INC.		
LOCATION	SPRING STUEBNER ROAD AT FUTURE SPRINGWOODS VILLAGE PARKWAY		
CobbFendley TBPE Firm Registration No. 274 TBPELS Firm Registration No. 100467 13430 Northwest Freeway, Suite 1100 Houston, Texas 77040 713.462.3242 | fax 713.462.3262 | www.cobbfendley.com			
DRAWN BY: RC	DATE: 5-06-2022	SHEET 1 OF 1	REVISED
DESIGNED BY: RC	SCALE: 1"=100'	F.B. NO. 3304	
	CHK'D BY: CW	PROJECT NO. 2107-031-01-01	

NOTE: TOPOGRAPHIC SURVEY NOT TO SCALE

CobbFendley
TBPE Firm Registration No. 274
TBPLS Firm Registration No. 100467
22316 Grand Corner Dr, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

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F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
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HOUSTON, TEXAS 77041
PHONE: 281-665-7957

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
TOPOGRAPHIC SURVEY

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PROP. LEGEND

- FIRE HYDRANT
- HOSE LAY ROUTE
- HOSE LAY ROUTE IN FIRE LANE (200' MAXIMUM ALLOWED)
- FIRE ACCESS ROUTE
- FOOTPRINT OF BUILDING AT GROUND FLOOR

SURVEYOR

COBBFENDLEY
4424 W SAM HOUSTON PKWY N, SUITE 600, HOUSTON, TX 77041
PH: (713) 462-3242
FX: (713) 462-3242

BENCHMARK

REFERENCE BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL, NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARK

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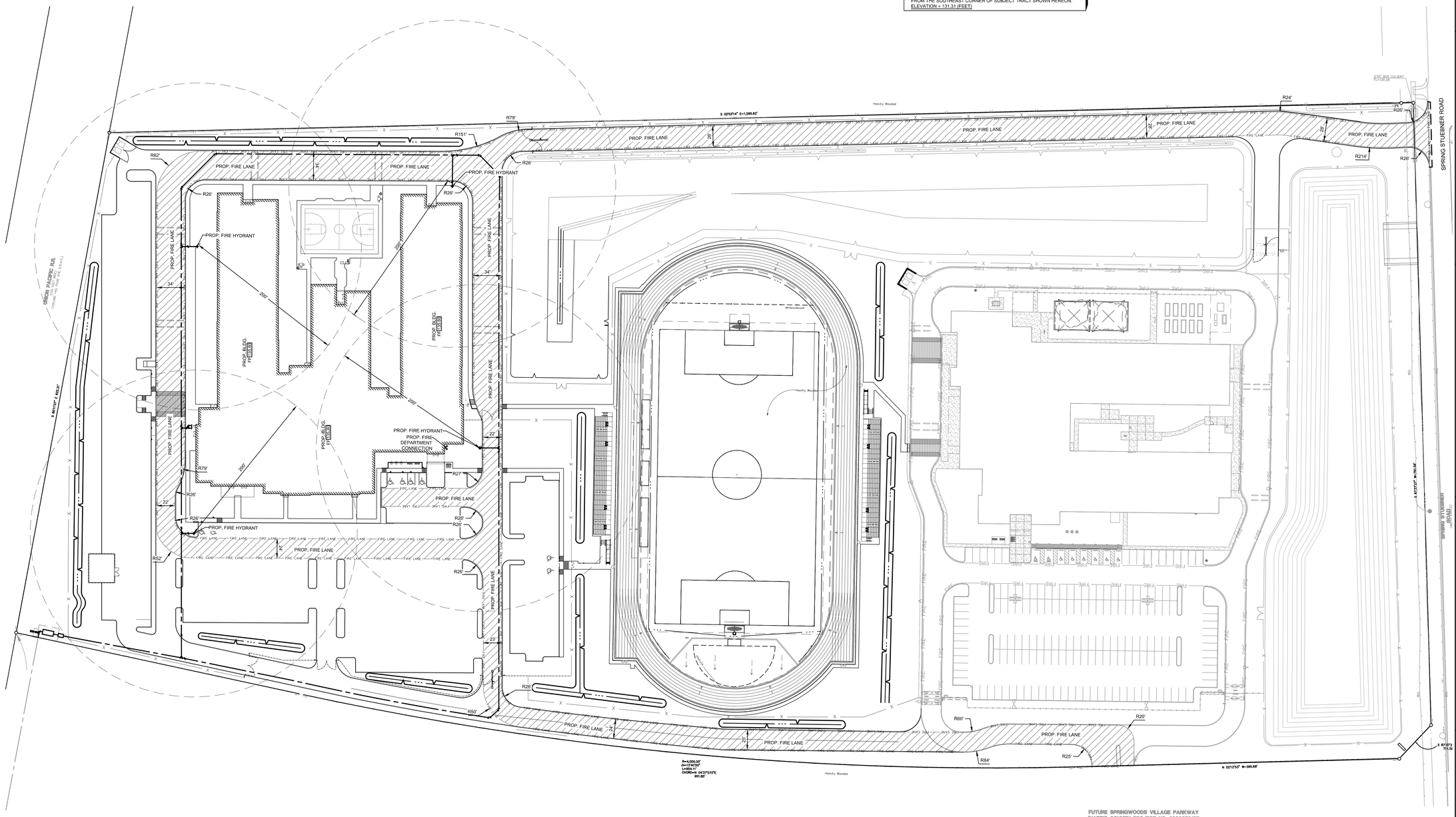
0 50' 100'
SCALE: 1" = 50'
Harris County
Key Map No. 291-M, 291-R



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STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER

6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
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Sheet Title:
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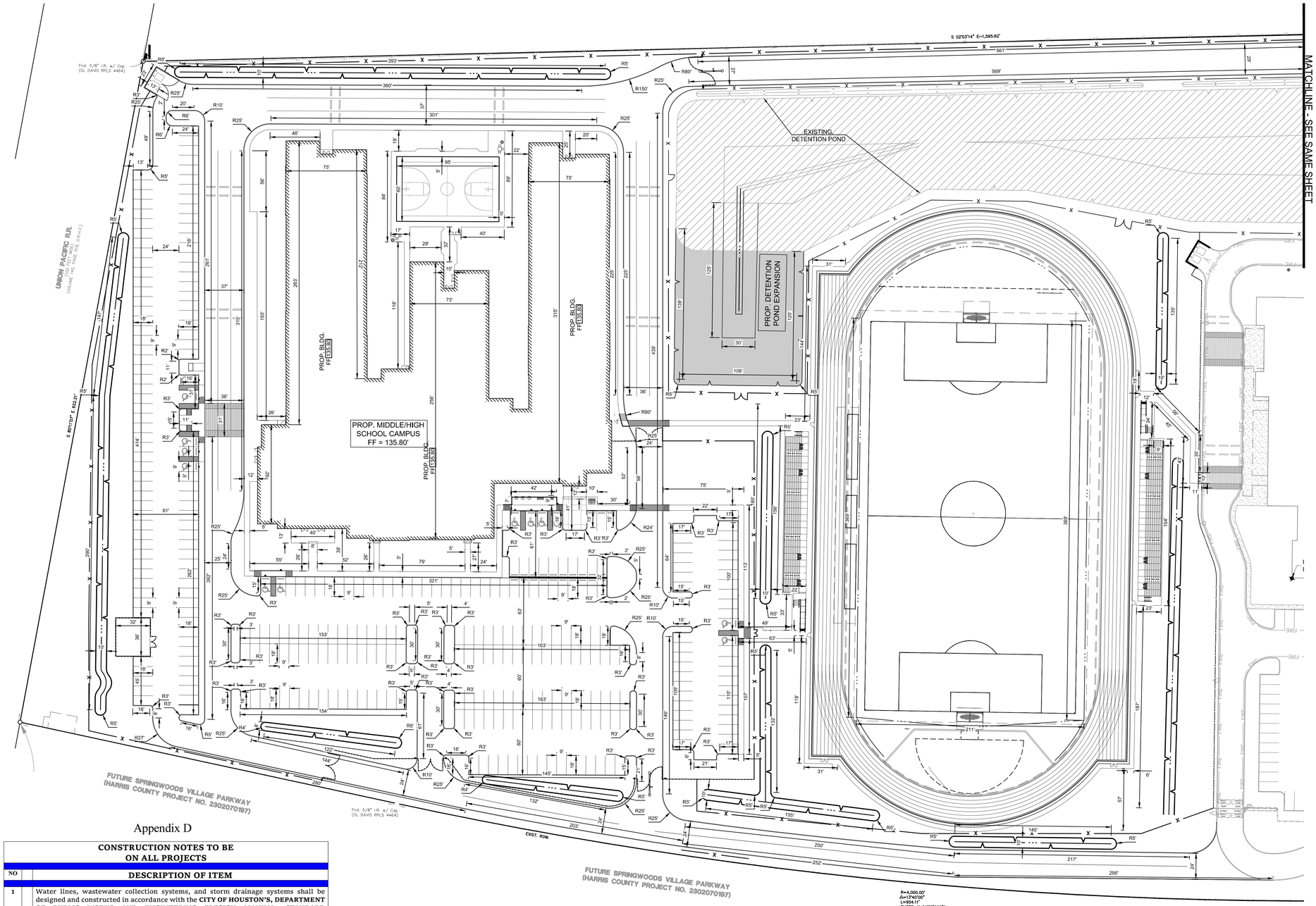

0 40' 80'

SCALE: 1" =40'

Harris County

Key Map No. 291-M, 291-R

SURVEYOR

COBBFENDLEY
4424 W SAM HOUSTON PKWY N, SUITE 600, HOUSTON, TX 77041
PH: (713) 462-3242
FX: (713) 462-3242

BENCHMARK

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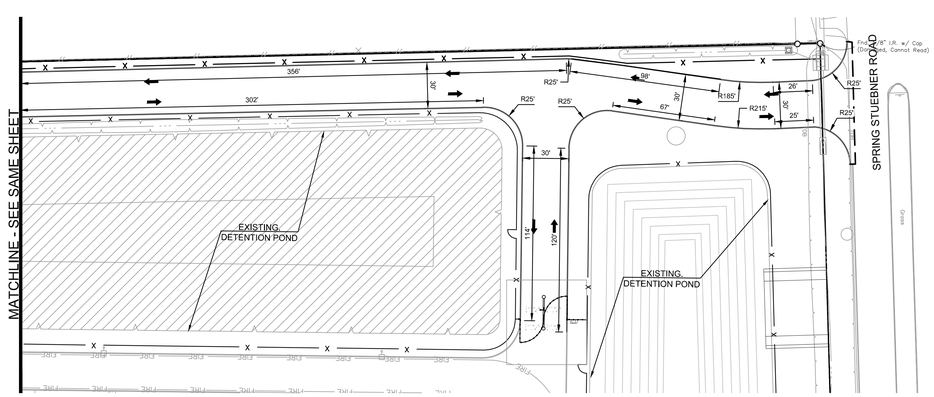
Appendix D

CONSTRUCTION NOTES TO BE ON ALL PROJECTS

NO	DESCRIPTION OF ITEM
1	Water lines, wastewater collection systems, and storm drainage systems shall be designed and constructed in accordance with the **CITY OF HOUSTON'S, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING "DESIGN MANUAL, STANDARD CONSTRUCTION SPECIFICATIONS, AND DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING".**
2	All storm sewer will be reinforced concrete (C76 Class III) and shall be installed, bedded and backfilled in accordance with the City of Houston's Drawings 02317-02, 02317-03, 02317-05, 02317-06 and 02317-07 as applicable.
3	All storm sewers constructed in side lot easements shall be R.C.P., minimum twenty (20) foot wide easements shall be provided.
4	An alternative to cement stabilized sand may be used as backfill for pipes fifty-four (54) inch and larger, from 1-foot above the top of the pipe to the bottom of the subgrade. Contractor may backfill with suitable material, provided the backfill material is placed in eight (8) inch lifts and mechanically compacted to ninety-five (95)% standard proctor density. Tests shall be taken at one hundred (100) foot intervals on each lift. Bedding and backfill to one (1) foot above the top of the pipe shall be cement-stabilized sand.
5	All proposed pipe stub-outs from manholes or inlets are to be plugged with eight (8) inch brick walls unless otherwise noted.
6	The contractor(s) shall notify Harris County Engineering Department- Permit Office twenty-four (24) hours in advance of commencing utility and/or paving construction at (713) 274-3931 and written notification forty-eight (48) hours in advance of commencing construction at 1111 Fannin Street 8th Floor, Houston, TX 77022
7	Paving shall be in accordance with the "Regulations of Harris County, Texas for the Approval and Acceptance of Infrastructure" and/or amendments of the same.
8	Guidelines set forth in the latest edition of the "Texas Manual on Uniform Traffic Control Devices, TMUCD with Revisions" shall be observed.
9	**OWNER OR OWNER'S AGENT** to obtain all permits required by the "Regulations of Harris County, Texas for Floodplain Management" prior to starting construction.
10	**OWNER OR OWNER'S AGENT** to obtain all notifications required by Harris County, Texas prior to starting construction of utilities and/or culverts within Harris County and Harris County Flood Control District Rights-of-Way.

PLEASE ADD ALL NOTES CIRCLED IN RED TO THE CONSTRUCTION PLANS.

- A Notification issued by HC Infrastructure Department-Permits Office- is required for proposed work within Harris county Right-of-Way. The project must be approved prior to obtain the required Notification. A Notification must be obtained separately from site development permit package. For additional information please visit: http://hcpid.org/permits/pr_notification_of_construction.html or contact Public Review Inspections Department @ (713)274-3931



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STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED ARCHITECT

6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:

OVERALL SITE AND DIMENSION CONTROL PLAN

C0.6

C:\fe Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\DWG\24100470 1-C0.8_SITE DIMENSION PLAN1.dwg
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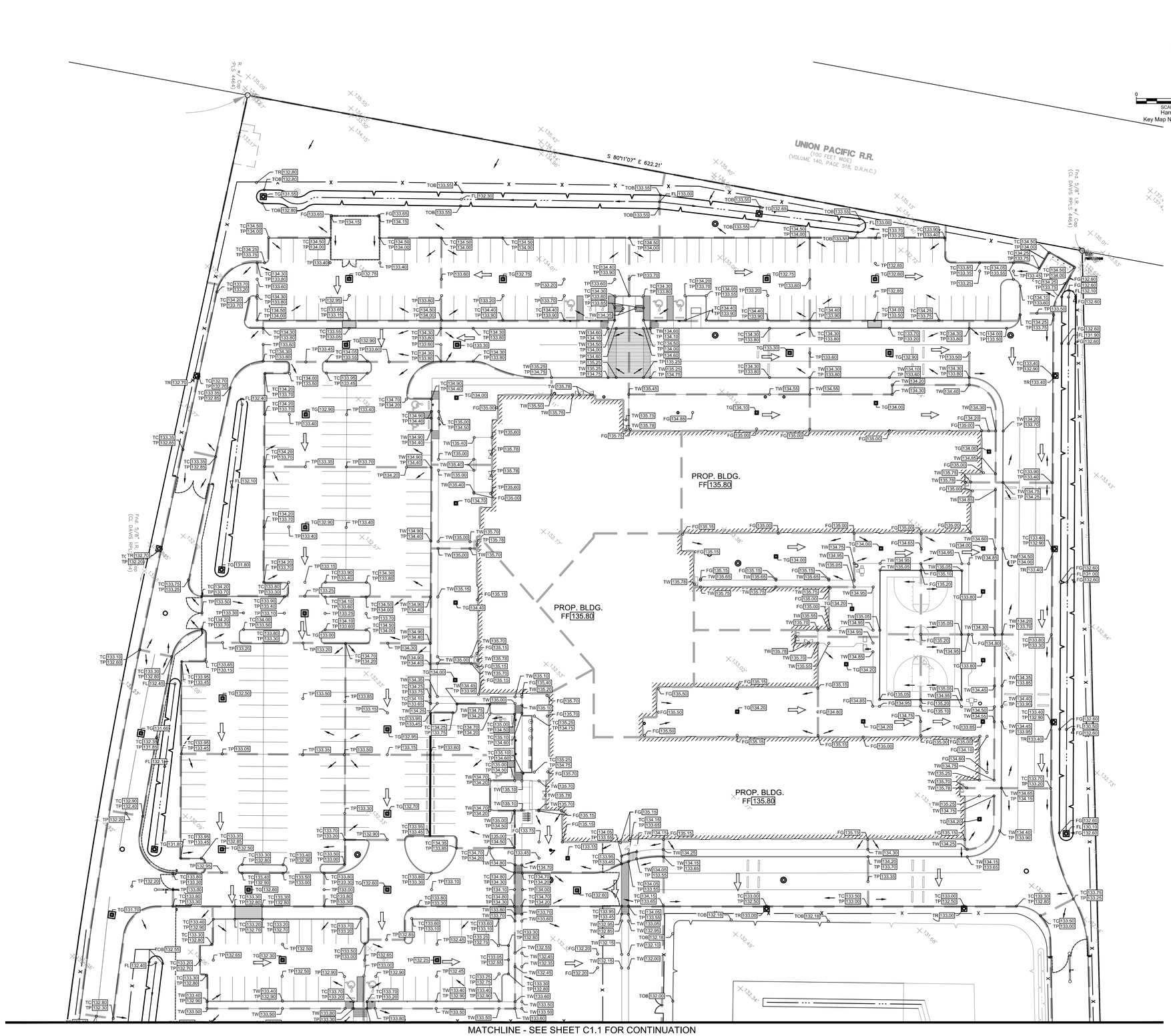

SCALE: 1" = 30'
Harris County
Key Map No. 291-M, 291-R

SURVEYOR

COBBFENDLEY
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BENCHMARK

REFERENCE BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL. NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER. WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS. NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARK

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
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THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

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ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

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PROP. LEGEND

- PROP STORM MANHOLE
- PROP LANDSCAPE INLET
- PROP 24" INLET (UNLESS NOTED)
- PROP SWALE
- EXIST ELEVATION
- TC00.00 PROP TOP OF GRATE INLET
- TP00.00 PROP TOP OF PAVEMENT ELEVATION
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- DIRECTION OF FLOW ARROW
- PROP DRAINAGE AREA BOUNDARY
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GRADING NOTES

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4. NO PORTION OF THE ACCESSIBLE PARKING AREA SHALL EXCEED 2% SLOPE.
5. ACCESSIBLE ROUTES MAY HAVE LONGITUDINAL SLOPES UP TO 5% (SEE NOTE 6 FOR SLOPES GREATER THAN 5%)
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6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
GRADING AND DRAINAGE PLAN (1 OF 2)

C1.0

C3d Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\DWG\241004701-C1.0_GRADING AND DRAINAGE PLAN.dwg Saved: 6/2/2026 2:44:34 PM/ asil

MATCHLINE - SEE SHEET C1.0 FOR CONTINUATION

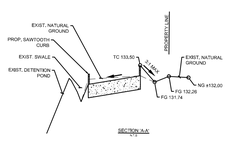
MATCHLINE - SEE SAME SHEET

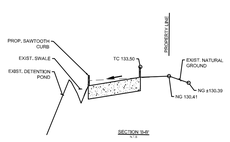
MATCHLINE - SEE SAME SHEET

SCALE: 1" = 30'
Harris County
Key Map No. 291-M, 291-R

NOTE:

IN AREAS WHERE THE PROJECT DESIGN INCORPORATES FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G.- PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION DESIGN AND SHALL INCLUDE ADDITIONAL DITCHES REDIRECTING SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086.





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▣	PROP 24" INLET (UNLESS NOTED)
———	PROP SWALE
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TW00.00	PROP TOP OF WALK
FG00.00	PROP FINISHED GRADE
MEG	MATCH EXISTING GRADE
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KEYPLAN

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Sheet Title:
GRADING AND DRAINAGE PLAN (2 OF 2)

C1.1

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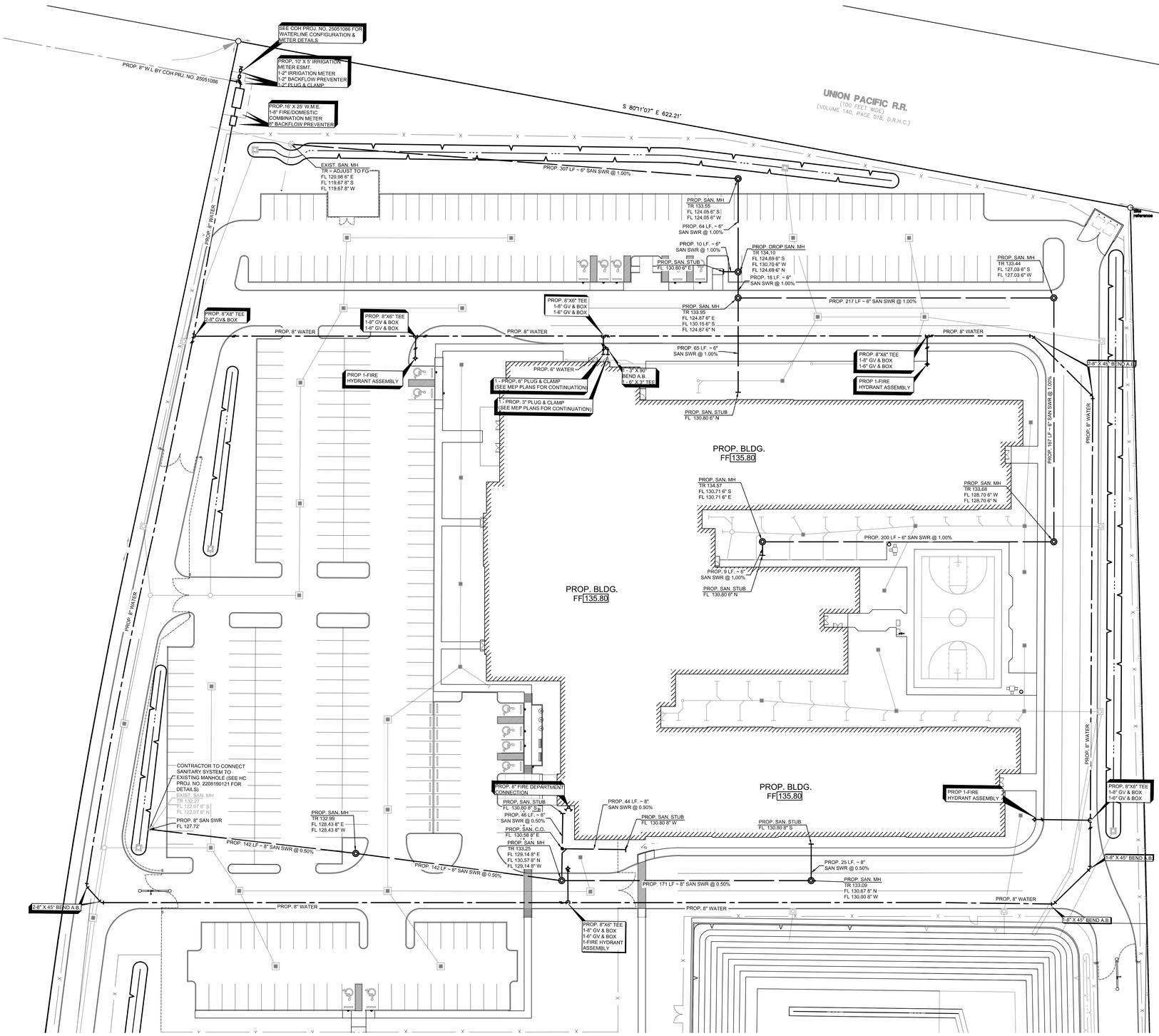

0 30' 60'
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PROP. LEGEND

- SANITARY SEWER
- DOM. WATER LINE
- PROP SANITARY MANHOLE
- PROP SANITARY CLEANOUT
- PROP GATE VALVE
- PROP FIRE HYDRANT
- PROP. STORM SEWER
- PROP. STORM MANHOLE (SEE DETAIL, SHT. C6.2)
- PROP. STORM MANHOLE WITH GRATE TOP (SEE DETAIL, SHT. C6.2)
- PROP. JUNCTIONBOX (SEE DETAIL, SHT. C6.2)
- PROP. LANDSCAPE INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. STORM CLEANOUT (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. TYPE E INLET (SEE DETAIL, SHT. C6.0 TO C6.2)

PIPING MATERIAL SCHEDULE

WATER LINES	
DIAMETER SIZE	MATERIALS
3" AND SMALLER	SCH 40 PVC
4" - 12"	AWWA C900 PVC
SANITARY SEWER LINES	
DIAMETER SIZE	MATERIAL
6" AND LARGER	SDR 26 PVC (BOTH PIPE & FITTINGS)

NOTES:

1. FOR ALL GRAVITY SANITARY & STORM SEWER LINES, CONTRACTOR TO REMOVE EXIST. PLUG, VERIFY FLOWLINE ELEVATION AND START AT DOWNSTREAM FLOWLINE OF PIPES BEING LAID & WORK UPSTREAM. IF FLOWLINE IS DIFFERENT FROM WHAT IS SHOWN, CONTRACTOR TO CONTACT ENGINEER.

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3. MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE TESTING PROCEDURES. SEE UTILITY NOTES THIS SET.

4. MATERIAL TYPE SHALL BE PER TABLE UNLESS SPECIFIED OTHERWISE IN PLANS.

5. ALL INLETS AND JUNCTION BOXES SHALL HAVE A TRAFFIC DUTY GRATE OR COVER UNLESS OTHERWISE NOTED.

6. SURFACE OF RIPRAP SHALL BE AT EXISTING GRADE AND SLOPE OF DETENTION BASIN. RIPRAP SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC.

7. SEE MEP PLANS FOR CONTINUATION THROUGH THE BUILDING.

CALL BEFORE YOU DIG !
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST – STOP CALL
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WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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HARMONY PUBLIC SCHOOLS

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SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
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STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
WATER AND SANITARY SEWER PLAN

C2.0

Cfa Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\DWG\241004701-C2.0_WATER AND SANITARY SEWER.dwg Saved: 1/28/2026 5:18:33 PM frali

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FX: (713) 462-3242

BENCHMARK

REFERENCE BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 1003115 IS A BRASS DISK STAMPED "1003115" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL, NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARK

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 131.31 (FEET)

FLOODPLAIN

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UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

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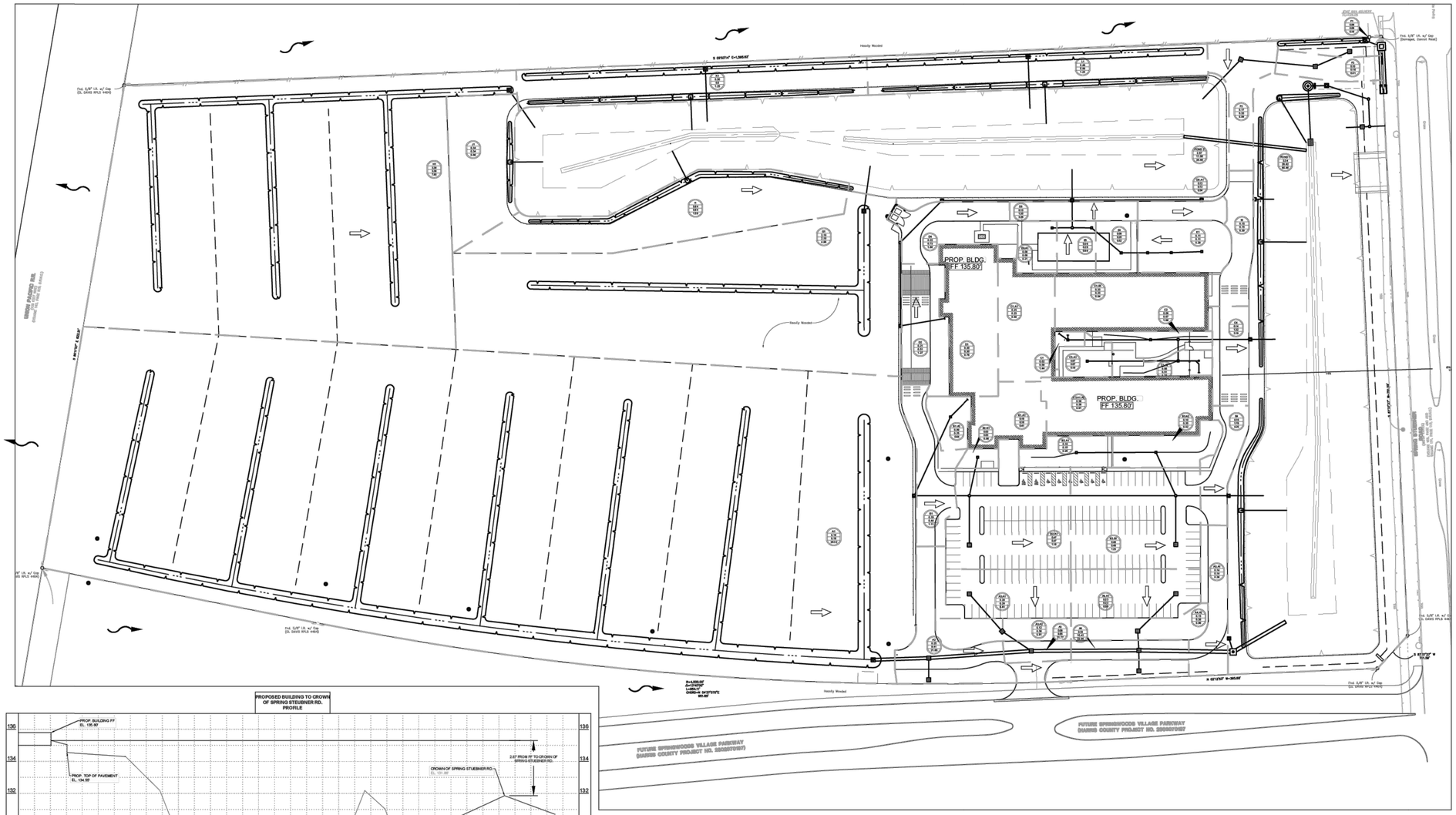


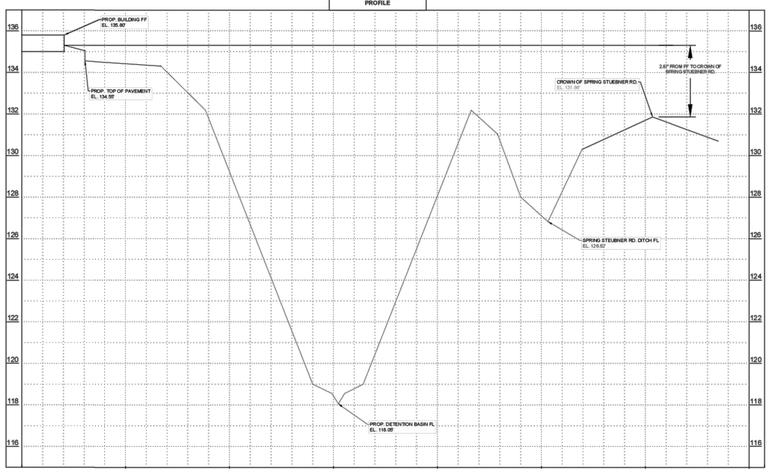
0 60' 120'
SCALE: 1" = 60'

Harris County
Key Map No. 291-M, 291-R

PROP. LEGEND

- PROP. STORM SEWER
- PROP DRAINAGE AREA BOUNDARY
- dr / ac / ac+ / cfs — PROP. DRAINAGE AREA NUMBER; ACREAGE IN DRAINAGE AREA; CUMULATIVE DRAINAGE AREA; 2 YEAR FLOW RATE
- EXTREME EVENT FLOW ARROW
- OFFSITE SHEETFLOW

PROPOSED BUILDING TO CROWN OF SPRING STUEBNER RD. PROFILE



FOR REFERENCE ONLY.
APPROVED PHASE 1 DRAINAGE AREA MAP UNDER HC PRJ NO. 2208190121

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MICHAEL F.A. MAZZOLA
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LICENSED PROFESSIONAL ENGINEER
10-17-2023

HARMONY PUBLIC SCHOOLS

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ELEMENTARY SCHOOL
CITY PLACE
RE BID
2600 SPRING STUEBNER RD,
SPRING , TEXAS 77389

Project Number: 22.21
Drawing Date: 06/21/2023

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PHASE 1 APPROVED DRAINAGE AREA MAP

C3.0

PROP. LEGEND

- PROP DRAINAGE AREA BOUNDARY
- dr / ac / ac+ / cfs — PROP. DRAINAGE AREA NUMBER; ACREAGE IN DRAINAGE AREA; CUMULATIVE DRAINAGE AREA; 2 YEAR FLOW RATE
- EXTREME EVENT FLOW ARROW
- OFFSITE SHEETFLOW
- DETENTION SERVICE AREA

SURVEYOR

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FX: (713) 462-3242

BENCHMARK

REFERENCE BENCHMARK

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SITE BENCHMARK

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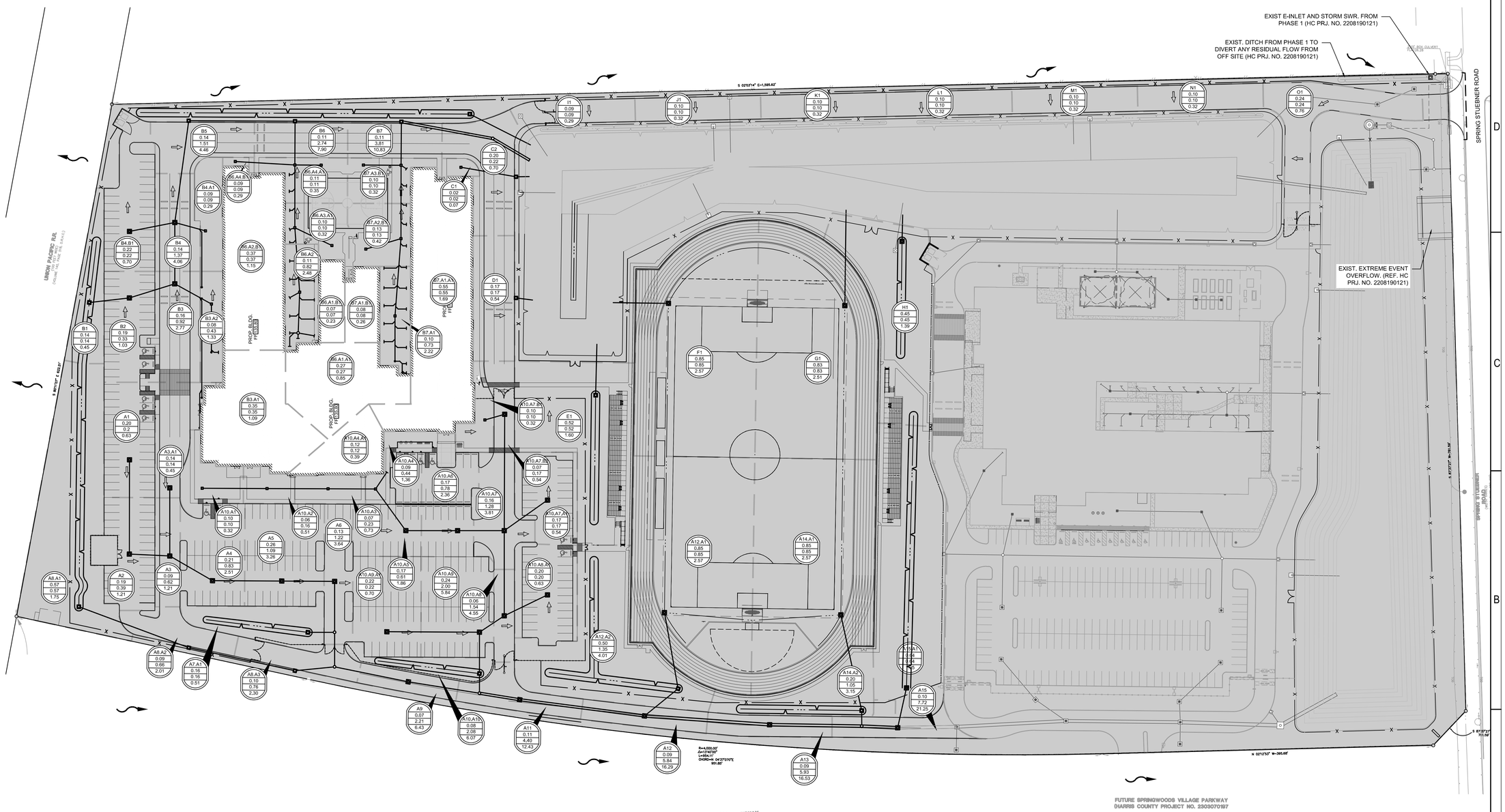
0 50' 100'
SCALE: 1" = 50'
Harris County
Key Map No. 291-M, 291-R



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STATE OF TEXAS
MICHAEL F. A. MAZZOLA
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LICENSED PROFESSIONAL ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
PHASE 2 DRAINAGE AREA MAP

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C3.1

C:\fa Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\DWG\24104701-C3.0_DRAINAGE AREA MAP.dwg
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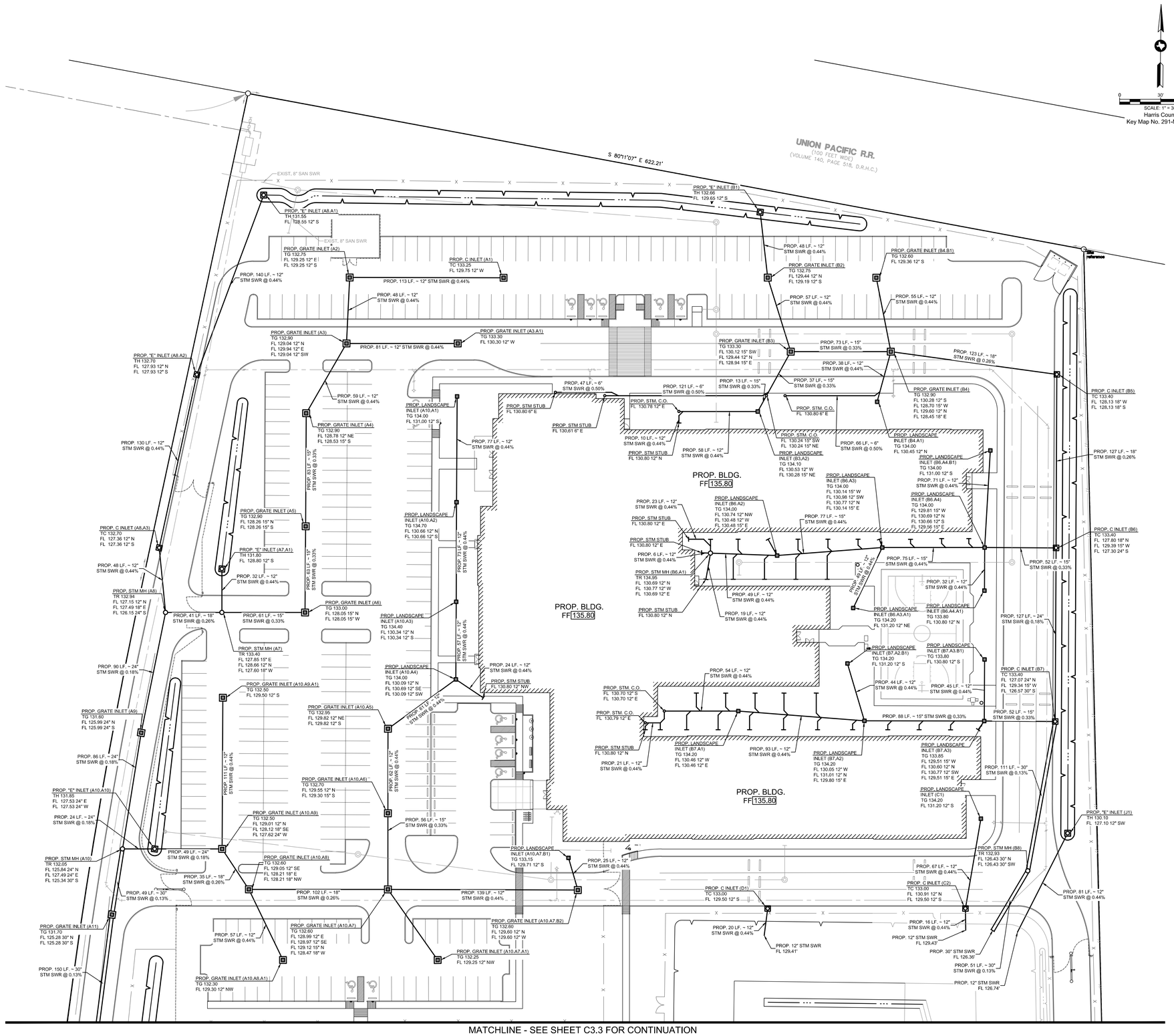

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BENCHMARK

REFERENCE BENCHMARK

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SITE BENCHMARK

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PROP. LEGEND

- PROP. STORM SEWER
- PROP. STORM MANHOLE (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. LARGE STORM MANHOLE (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. STORM MANHOLE WITH GRATE TOP (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. JUNCTIONBOX (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. TYPE "A" GRATE INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. LANDSCAPE INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. STORM CLEANOUT (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. TYPE E INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP SANITARY MANHOLE
- PROP SANITARY CLEANOUT
- PROP GATE VALVE
- PROP FIRE HYDRANT
- SANITARY SEWER
- DOM. WATER LINE
- PROP DRAINAGE AREA BOUNDARY

PIPING MATERIAL SCHEDULE

STORM SEWER LINES:

DIAMETER SIZE	MATERIAL
12" TO 30"	DUAL WALL HDPE (AASHTO M294)
36" TO 66"	RCP CLASS III, C76

NOTES:

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6. SURFACE OF RIPRAP SHALL BE AT EXISTING GRADE AND SLOPE OF DETENTION BASIN. RIPRAP SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC.

7. CONTRACTOR TO REMOVE EXISTING SET STRUCTURE AND REPLACE WITH PROPOSED JUNCTION BOX WITH GRATE TOP, CONTRACTOR TO CONNECT EXISTING STORM SEWER TO THE EAST SIDE OF THE JUNCTION BOX, GRADE SURROUNDING NATURAL GROUND TO DRAIN TO GRATE.

CALL BEFORE YOU DIG !
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST – STOP CALL
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KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:
Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
STORM SEWER PLAN (1 OF 2)

C3.2

C:\fa Info: D:\Projects\2024\10947_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\DWG\241004701-C3.1_STORM SEWER PLAN.dwg
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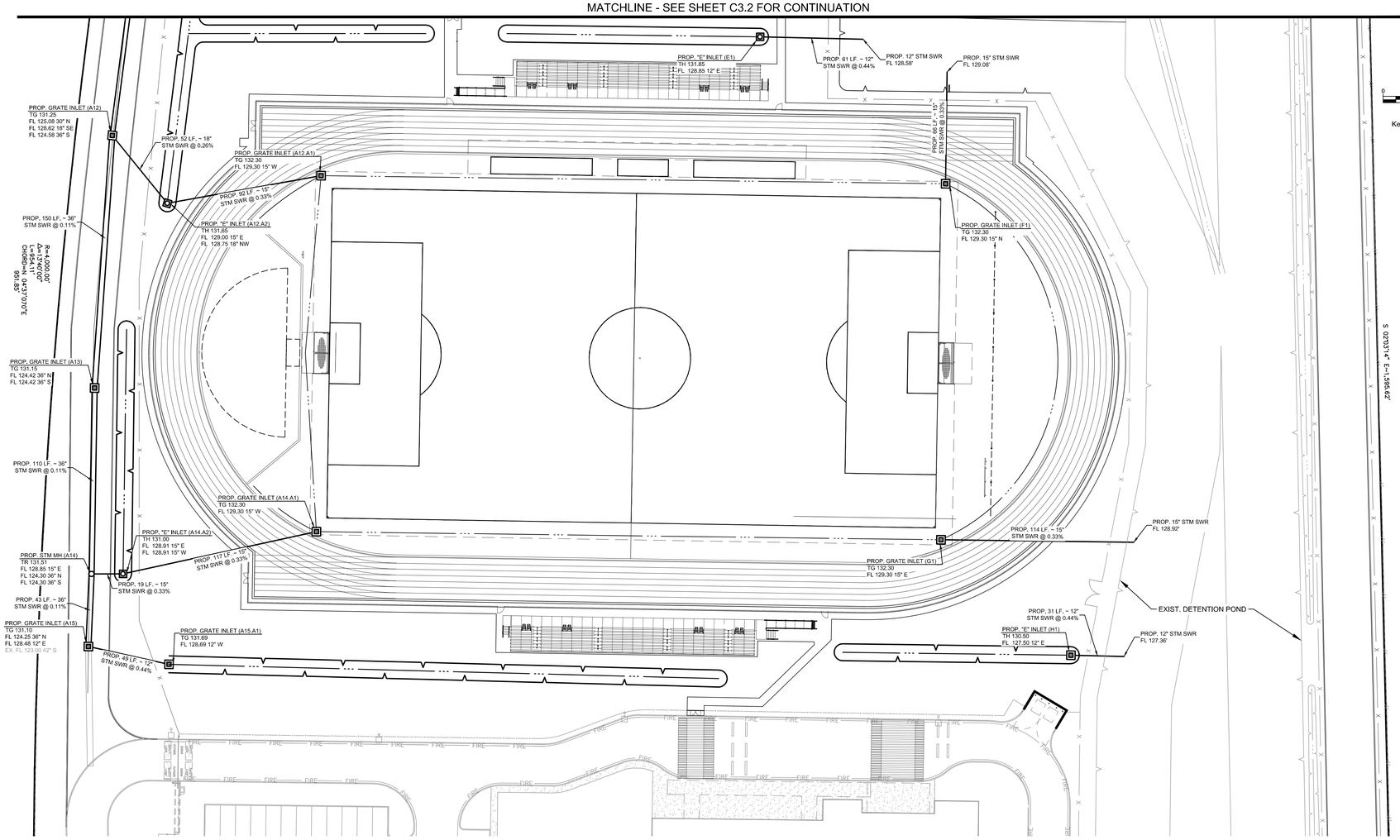
MATCHLINE - SEE SHEET C3.2 FOR CONTINUATION



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REFERENCE BENCHMARK

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SITE BENCHMARK

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FLOODPLAIN

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

PROP. LEGEND

- PROP. STORM SEWER
- PROP. STORM MANHOLE (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. LARGE STORM MANHOLE (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. STORM MANHOLE WITH GRATE TOP (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. JUNCTIONBOX (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. TYPE "A" GRATE INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. LANDSCAPE INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. STORM CLEANOUT (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP. TYPE E INLET (SEE DETAIL, SHT. C6.0 TO C6.2)
- PROP SANITARY MANHOLE
- PROP SANITARY CLEANOUT
- PROP GATE VALVE
- PROP FIRE HYDRANT
- SANITARY SEWER
- DOM. WATER LINE
- PROP DRAINAGE AREA BOUNDARY

PIPING MATERIAL SCHEDULE

STORM SEWER LINES

DIAMETER SIZE	MATERIAL
12" TO 30"	DUAL WALL HDPE (AASHTO M294)
36" TO 66"	RCP CLASS III, C76

NOTES:

1. FOR ALL GRAVITY SANITARY & STORM SEWER LINES, CONTRACTOR TO REMOVE EXIST. PLUG, VERIFY FLOWLINE ELEVATION AND START AT DOWNSTREAM FLOWLINE OF PIPES BEING LAID & WORK UPSTREAM. IF FLOWLINE IS DIFFERENT FROM WHAT IS SHOWN, CONTRACTOR TO CONTACT ENGINEER.

2. CONTRACTOR TO STAKE ALL SANITARY & WATER LINES BEFORE CONSTRUCTION OF THE LINES & CONTACT THE ENGINEER IF ANY CONFLICT APPEARS OR IF THERE APPEARS TO BE A MORE APPROPRIATE ROUTE.

3. MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE TESTING PROCEDURES. SEE UTILITY NOTES THIS SET.

4. MATERIAL TYPE SHALL BE PER TABLE UNLESS SPECIFIED OTHERWISE IN PLANS.

5. ALL INLETS AND JUNCTION BOXES SHALL HAVE A TRAFFIC DUTY GRATE OR COVER UNLESS OTHERWISE NOTED.

6. SURFACE OF RIPRAP SHALL BE AT EXISTING GRADE AND SLOPE OF DETENTION BASIN. RIPRAP SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC.

7. CONTRACTOR TO REMOVE EXISTING SET STRUCTURE AND REPLACE WITH PROPOSED JUNCTION BOX WITH GRATE TOP. CONTRACTOR TO CONNECT EXISTING STORM SEWER TO THE EAST SIDE OF THE JUNCTION BOX. GRADE SURROUNDING NATURAL GROUND TO DRAIN TO GRATE.

CALL BEFORE YOU DIG !
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST – STOP CALL
Texas One Call System
1-800-669-8344

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CobbFendley
TBPE Firm Registration No. 274
TBPLS Firm Registration No. 100467
22316 Grand Corner Dr, Suite 100
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HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
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McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY N, SUITE 600
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LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
STORM SEWER PLAN (2 OF 2)

C3.3

C:\a Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\DWG\24100470 1-C3.1_STORM SEWER PLAN.dwg
Saved: 6/2/2026 9:48:28 AM rasli

Harmony City Place Phase II

Storm Sewer Calculation Form

Project: Harmony City Place Phase II
Job No: 2410-047-01
System: A, B, C, D, E, F, G, H, I & J
By: JN

DATE:10-07-2025
Rainfall Frequency (years): 2.00

$$i = \frac{b}{(d+TC)^e}$$

D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\300_DEPT_DOCS\31

From MH	To MH	Sub Area Acres	Sub Runoff Coeff. C	Total Area Acres	Sum of C A	Intensity I (in / Hr.)	Sum of Flows cfs	Time of Conc. min.	LINE Reach Length Feet	# of Pipe	Diam. (in) or Rise (ft)	Slope %	Mannings n"	DESIGN Capacity cfs	HYD. GRAD Elev. Up Stream	Elev. Down Stream	UPST T.G. Elev. (FT)	flowline upstream	flowline downstream	Comments
A1	A2	0.20	0.80	0.20	0.16	3.96	0.63	22.53	113	1	12	0.44	0.013	2.36	130.29	130.25	132.75	129.75	129.25	OK / 2-YEAR HGL < T.G. ELEV
A2	A3	0.19	0.80	0.39	0.31	3.88	1.21	23.47	48	1	12	0.44	0.013	2.36	130.10	130.04	132.75	129.25	129.04	OK / 2-YEAR HGL < T.G. ELEV
A3	A4	0.09	0.80	0.62	0.50	3.82	1.89	24.19	59	1	12	0.44	0.013	2.36	129.95	129.78	132.90	129.04	128.78	OK / 2-YEAR HGL < T.G. ELEV
A4	A5	0.21	0.80	0.83	0.66	3.76	2.51	24.68	83	1	15	0.33	0.013	3.71	129.63	129.51	132.90	128.53	128.26	OK / 2-YEAR HGL < T.G. ELEV
A5	A6	0.26	0.80	1.09	0.87	3.74	3.26	25.15	63	1	15	0.33	0.013	3.71	129.46	129.30	132.90	128.26	128.05	OK / 2-YEAR HGL < T.G. ELEV
A6	A7	0.13	0.80	1.22	0.98	3.72	3.64	25.36	61	1	15	0.33	0.013	3.71	129.29	129.10	133.00	128.05	127.85	OK / 2-YEAR HGL < T.G. ELEV
A7	A8	0.00	0.80	1.38	1.10	3.71	4.09	25.58	41	1	18	0.26	0.013	5.36	129.05	128.99	133.40	127.60	127.49	OK / 2-YEAR HGL < T.G. ELEV
A8	A9	0.00	0.80	2.14	1.71	3.64	6.24	26.43	90	1	24	0.18	0.013	9.60	128.06	127.99	132.94	126.15	125.99	OK / 2-YEAR HGL < T.G. ELEV
A9	A10	0.07	0.80	2.21	1.77	3.64	6.43	26.50	86	1	24	0.18	0.013	9.60	127.91	127.84	131.60	125.99	125.84	OK / 2-YEAR HGL < T.G. ELEV
A10	A11	0.00	0.80	4.29	3.43	3.54	12.13	27.92	49	1	30	0.13	0.013	14.79	127.82	127.78	132.05	125.34	125.28	OK / 2-YEAR HGL < T.G. ELEV
A11	A12	0.11	0.80	4.40	3.52	3.53	12.43	27.98	150	1	30	0.13	0.013	14.79	127.72	127.58	131.70	125.28	125.08	OK / 2-YEAR HGL < T.G. ELEV
A12	A13	0.09	0.80	5.84	4.67	3.49	16.29	28.64	150	1	36	0.11	0.013	22.12	127.51	127.42	131.25	124.58	124.42	OK / 2-YEAR HGL < T.G. ELEV
A13	A14	0.09	0.80	5.93	4.74	3.48	16.53	28.68	110	1	36	0.11	0.013	22.12	127.37	127.30	131.15	124.42	124.30	OK / 2-YEAR HGL < T.G. ELEV
A14	A15	0.00	0.80	6.98	5.58	3.46	19.31	29.08	43	1	36	0.11	0.013	22.12	127.29	127.25	131.51	124.30	124.25	OK / 2-YEAR HGL < T.G. ELEV
A15	OUT	0.10	0.80	7.72	6.18	3.44	21.25	29.33	71	1	42	0.09	0.013	30.18	126.47	126.44	131.10	123.00	122.94	OK / 2-YEAR HGL < T.G. ELEV
A3.A1	A3	0.14	0.80	0.14	0.11	4.00	0.45	22.07	81	1	12	0.44	0.013	2.36	130.95	130.94	133.30	130.30	129.94	OK / 2-YEAR HGL < T.G. ELEV
A7.A1	A7	0.16	0.80	0.16	0.13	3.99	0.51	22.24	32	1	12	0.44	0.013	2.36	128.81	128.80	131.80	128.66	0.00	OK / 2-YEAR HGL < T.G. ELEV
A8.A1	A8.A2	0.57	0.80	0.57	0.46	3.83	1.75	24.06	140	1	12	0.44	0.013	2.36	129.27	128.93	131.55	128.55	127.93	OK / 2-YEAR HGL < T.G. ELEV
A8.A2	A8.A3	0.09	0.80	0.66	0.53	3.81	2.01	24.29	130	1	12	0.44	0.013	2.36	128.77	128.36	131.20	127.93	127.36	OK / 2-YEAR HGL < T.G. ELEV
A8.A3	A8	0.10	0.80	0.76	0.61	3.79	2.30	24.53	48	1	12	0.44	0.013	2.36	128.15	132.20	127.36	127.15	OK / 2-YEAR HGL < T.G. ELEV
A10.A1	A10.A2	0.10	0.80	0.10	0.08	4.04	0.32	21.67	77	1	12	0.44	0.013	2.36	131.67	131.66	134.00	131.00	130.66	OK / 2-YEAR HGL < T.G. ELEV
A10.A2	A10.A3	0.06	0.80	0.16	0.13	3.99	0.51	22.24	73	1	12	0.44	0.013	2.36	131.35	131.34	134.70	130.66	130.34	OK / 2-YEAR HGL < T.G. ELEV
A10.A3	A10.A4	0.07	0.80	0.23	0.18	3.95	0.73	22.72	57	1	12	0.44	0.013	2.36	131.11	131.09	134.40	130.34	130.09	OK / 2-YEAR HGL < T.G. ELEV
A10.A4	A10.A5	0.09	0.80	0.44	0.35	3.86	1.36	23.65	61	1	12	0.44	0.013	2.36	130.91	130.82	134.00	130.09	129.82	OK / 2-YEAR HGL < T.G. ELEV
A10.A5	A10.A6	0.17	0.80	0.61	0.49	3.82	1.86	24.17	62	1	12	0.44	0.013	2.36	130.72	130.55	132.95	129.82	129.55	OK / 2-YEAR HGL < T.G. ELEV
A10.A6	A10.A7	0.17	0.80	0.78	0.62	3.79	2.36	24.57	56	1	15	0.33	0.013	3.71	130.44	130.37	132.70	129.12	129.12	OK / 2-YEAR HGL < T.G. ELEV
A10.A7	A10.A8	0.16	0.80	1.28	1.02	3.72	3.81	25.44	102	1	18	0.26	0.013	5.36	129.84	129.71	132.60	128.47	128.21	OK / 2-YEAR HGL < T.G. ELEV
A10.A8	A10.A9	0.06	0.80	1.54	1.23	3.69	4.55	25.79	35	1	18	0.26	0.013	5.36	129.69	129.62	132.60	128.21	128.12	OK / 2-YEAR HGL < T.G. ELEV
A10.A9	A10.A10	0.24	0.80	2.00	1.60	3.65	5.84	26.30	49	1	24	0.18	0.013	9.60	129.56	129.53	132.50	127.62	127.53	OK / 2-YEAR HGL < T.G. ELEV
A10.A10	A10	0.08	0.80	2.08	1.66	3.65	6.07	26.38	24	1	24	0.18	0.013	9.60	129.51	129.49	131.85	127.53	127.49	OK / 2-YEAR HGL < T.G. ELEV
A10.A4.A1	A10.A4	0.12	0.80	0.12	0.10	4.02	0.39	21.88	24	1	12	0.44	0.013	2.36	131.69	131.69	134.00	130.80	130.69	OK / 2-YEAR HGL < T.G. ELEV
A10.A7.A1	A10.A7	0.17	0.80	0.17	0.14	3.98	0.54	22.32	63	1	12	0.44	0.013	2.36	129.98	129.97	132.25	129.25	128.97	OK / 2-YEAR HGL < T.G. ELEV
A10.A7.B1	A10.A7.B2	0.10	0.80	0.10	0.08	4.04	0.32	21.67	25	1	12	0.44	0.013	2.36	130.60	130.60	133.15	129.71	129.60	OK / 2-YEAR HGL < T.G. ELEV
A10.A7.B2	A10.A7	0.07	0.80	0.17	0.14	3.98	0.54	22.32	139	1	12	0.44	0.013	2.36	130.02	129.99	132.60	129.60	128.99	OK / 2-YEAR HGL < T.G. ELEV
A10.A8.A1	A10.A8	0.20	0.80	0.20	0.16	3.96	0.63	22.53	57	1	12	0.44	0.013	2.36	130.07	130.05	132.30	129.30	129.05	OK / 2-YEAR HGL < T.G. ELEV
A10.A9.A1	A10.A9	0.22	0.80	0.22	0.18	3.95	0.70	22.66	111	1	12	0.44	0.013	2.36	130.05	130.01	132.50	129.50	129.01	OK / 2-YEAR HGL < T.G. ELEV
A12.A1	A12.A2	0.85	0.80	0.85	0.68	3.78	2.57	24.72	92	1	15	0.33	0.013	3.71	130.40	130.25	132.30	129.30	129.00	OK / 2-YEAR HGL < T.G. ELEV
A12.A2	A12	0.50	0.80	1.35	1.08	3.71	4.01	25.54	52	1	18	0.26	0.013	5.36	130.19	130.12	131.65	128.75	128.62	OK / 2-YEAR HGL < T.G. ELEV
A14.A1	A14.A2	0.85	0.80	0.85	0.68	3.78	2.57	24.72	117	1	15	0.33	0.013	3.71	130.34	130.16	132.30	129.30	128.91	OK / 2-YEAR HGL < T.G. ELEV
A14.A2	A14	0.20	0.80	1.05	0.84	3.75	3.15	25.09	19	1	15	0.33	0.013	3.71	130.14	130.10	131.00	128.91	128.85	OK / 2-YEAR HGL < T.G. ELEV
A15.A1	A15	0.64	0.80	0.64	0.51	3.81	1.95	24.24	49	1	12	0.44	0.013	2.36	129.63	129.48	131.69	128.69	128.48	OK / 2-YEAR HGL < T.G. ELEV
B1	B2	0.14	0.80	0.14	0.11	4.00	0.45	22.07	48	1	12	0.44	0.013	2.36	130.45	130.44	132.65	129.65	129.44	OK / 2-YEAR HGL < T.G. ELEV
B2	B3	0.19	0.80	0.33	0.26	3.90	1.03	23.23	57	1	12	0.44	0.013	2.36	130.24	130.19	132.75	129.44	129.19	OK / 2-YEAR HGL < T.G. ELEV
B3	B4	0.16	0.80	0.49	0.39	3.84	1.50	23.73	73	1	12	0.44	0.013	2.36	130.03	129.94	132.90	129.19	128.94	OK / 2-YEAR HGL < T.G. ELEV
B4	B5	0.14	0.80	1.37	1.10	3.71	4.06	25.57	123	1	18	0.26	0.013	5.36	129.81	129.63	132.90	128.45	128.13	OK / 2-YEAR HGL < T.G. ELEV
B5	B6	0.14	0.80	1.51	1.21	3.69	4.46	25.75	127	1	18	0.26	0.013	5.36	129.53	129.30	132.90	128.13	127.80	OK / 2-YEAR HGL < T.G. ELEV
B6	B7	0.11	0.80	2.74	2.19	3.60	7.90	26.94	127	1	24	0.18	0.013	9.60	129.22	129.07	132.90	127.30	127.07	OK / 2-YEAR HGL < T.G. ELEV
B7	B8	0.11	0.80	3.81	3.05	3.55	10.83	27.66	111	1	30	0.13	0.013	14.79	129.01	128.93	132.90	126.57	126.43	OK / 2-YEAR HGL < T.G. ELEV
B8	DET	0.00	0.80	3.81	3.05	3.55	10.83	27.66	51	1	30	0.13	0.013	14.79	128.90	128.86	132.93	126.43	126.36	OK / 2-YEAR HGL < T.G. ELEV
B3.A1	B3.A2	0.35	0.80	0.35	0.28	3.89	1.09	23.31	64	1	12	0.44	0.013	2.36	131.59	131.53	134.10	130.78	130.53	OK / 2-YEAR HGL < T.G. ELEV
B3.A2	B3	0.08	0.80	0.43	0.34	3.87	1.33	23.62	50	1	12	0.44	0.013	2.36	131.19	131.12	134.10	130.28	130.12	OK / 2-YEAR HGL < T.G. ELEV
B4.A1	B4	0.09	0.80	0.09	0.07	4.06	0.29	21.54	38	1	12	0.44	0.013	2.36	131.28	131.28	134.00	130.45	130.28	OK / 2-YEAR HGL < T.G. ELEV
B4.B2	B4	0.22	0.80	0.22	0.18	3.95	0.70	22.66	55	1	12	0.44	0.013	2.36	130.38	130.36	132.60	129.60	129.36	OK / 2-YEAR HGL < T.G. ELEV
B6.A1	B6.A2	0.00	0.80	0.34	0.27	3.90	1.06	23.27	49	1	12	0.44	0.013	2.36	131.55	131.50	134.95	130.69	130.48	OK / 2-YEAR HGL < T.G. ELEV
B6.A2	B6.A3	0.11	0.80	0.82	0.66	3.78	2.48	24.66	77	1	15	0.33	0.013	3.71	131.50	131.39	134.00	130.48	130.14	OK / 2-YEAR HGL < T.G. ELEV
B6.A3	B6.A4	0.00	0.80	0.92	0.74	3.76	2.77	24.85	75	1	15	0.33	0.013	3.71	131.20	131.06	134.00	130.14	129.81	OK / 2-YEAR HGL < T.G. ELEV
B6.A4	B6	0.00	0.80	1.12	0.90	3.74	3.35	25.20	52	1	15	0.33	0.013	3.71	130.78	130.64	134.00	129.56	129.39	OK / 2-YEAR HGL < T.G. ELEV
B6.A1.A1	B6.A1	0.27	0.80	0.27	0.22	3.93	0.85	22.94	7	1	12	0.44	0.013	2.36	131.40	131.40	134.95	130.69	130.40	OK / 2-YEAR HGL < T.G. ELEV
B6.A1.B1	B6.A1	0.07	0.80	0.07	0.06	4.08	0.23	21.26	19	1	12	0.44	0.013	2.36	131.48	131.48	134.95	130.69	130.48	OK / 2-YEAR HGL < T.G. ELEV
B6.A2.B1	B6.A2	0.37	0.80	0.37	0.30	3.89	1.15	23.39	6	1	12	0.44	0.013	2.36	131.15	131.14	134.00	130.48	130.14	OK / 2-YEAR HGL < T.G. ELEV
B6.A3.A1	B6.A3	0.10	0.80	0.10	0.08	4.04	0.32	21.67	49	1	12	0.44	0.013	2.36	131.98	131.98	134.20	131.20	130.98	OK / 2-YEAR HGL < T.G. ELEV
B6.A4.A1	B6.A4	0.11	0.80	0.11	0.09	4.03	0.35	21.78	32	1	12	0.44	0.013	2.36	131.66	131.66	133.80	130.80	130.66	OK / 2-YEAR HGL < T.G. ELEV
B6.A4.B1	B6.A4	0.09	0.80	0.09	0.07	4.06	0.29	21.54	71	1	12	0.44	0.013	2.36	131.69	131.69	134.00	131.00	130.69	OK / 2-YEAR HGL < T.G. ELEV
B7.A1	B7.A2	0.10	0.80	0.73	0.58	3.80	2.22	24.46	93	1	12	0.44	0.013	2.36	131.41	131.05	134.20	130.46	130.05	OK / 2-YEAR HGL < T.G. ELEV
B7.A2	B7.A3	0.00	0.80	0.86	0.69	3.77	2.60	24.74	88	1	15	0.33	0.013	3.71	130.90	130.76	134.20	129.80	129.51	OK / 2-YEAR HGL < T.G. ELEV
B7.A3	B7	0.00	0.80	0.96	0.77	3.76	2.89	24.93	52	1	15	0.33	0.013	3.71	130.69	130.59	133.85	129.51	129.34	OK / 2-YEAR HGL < T.G. ELEV
B7.A1.A1	B7.A1	0.55	0.80	0.55	0.44	3.83	1.69	24.00	54	1	12	0.44	0.013	2.36	131.17	131.05	134.20	130.46	130.05	OK / 2-YEAR HGL < T.G. ELEV
B7.A1.B1	B7.A1	0.08	0.80	0.08	0.06	4.07	0.26	21.41	15	1	12	0.44	0.013	2.36	131.05	131.05	134.20	130.46	130.05	OK / 2-YEAR HGL < T.G. ELEV
B7.A2.B1	B7.A2	0.13	0.80	0.13	0.10	4.01	0.42	21.98	44	1	12	0.44	0.013	2.36	132.02	132.01	134.20	131.20	131.01	OK / 2-YEAR HGL < T.G. ELEV
B7.A3.B1	B7.A3	0.10	0.80	0.10	0.08	4.04	0.32	21.67	45	1	12	0.44	0.013	2.36	131.60	131.60	133.80	130.80	130.60	OK / 2-YEAR HGL < T.G. ELEV
C1	C2	0.02	0.80	0.02	0.02	4.21	0.07	20.02	67	1	12	0.44	0.013	2.36	131.92	131.92	132.50	129.50	129.43	OK / 2-YEAR HGL < T.G. ELEV
C2	DET	0.20	0.80	0.22	0.18	3.95	0.70	22.66	16	1	12	0.44	0.013	2.36	131.92	131.91	134.20	131.20	130.91	OK / 2-YEAR HGL < T.G. ELEV
D1	DET	0.17	0.80	0.17	0.14	3.98	0.54	22.32	17	1	12	0.44	0.013	2.36	130.41	130.41	132.50	129.50	129.41	OK / 2-YEAR HGL < T.G. ELEV
E1	DET	0.52	0.80	0.52	0.42	3.84	1.60	23.91	55	1	12	0.44	0.013	2.36	129.69	129.58	131.85	128.85	128.58	OK / 2-YEAR HGL < T.G. ELEV
F1	DET	0.85	0.80	0.85	0.68	3.78	2.57	24.72	61	1	15	0.33	0.013	3.71	130.43	130.33	132.30	129.30	129.08	OK / 2-YEAR HGL < T.G. ELEV
G1	DET	0.83	0.80	0.83	0.66	3.78	2.51	24.68	114	1	15	0.33	0.013	3.71	130.34	130.17	132.30	129.30	128.92	OK / 2-YEAR HGL < T.G. ELEV
H1	DET	0.45	0.80	0.45	0.36	3.86	1.39	23.69	31	1	12	0.44	0.013	2.36	128.41	128.36	130.50	127.50	127.36	OK / 2-YEAR HGL < T.G. ELEV
J1	DET	0.29	0.80	0.29	0.23	3.92	0.91	23.04	100	1	12	0.44	0.013	2.36	127.80	127.74	130.10	127.10	126.74	OK / 2-YEAR HGL < T.G. ELEV

Harmony City Place Phase II

Storm Sewer Calculation Form

Project: Harmony City Place Phase II
Job No: 2410-047-01
System: A, B, C, D, E, F, G, H, I & J
By: JN

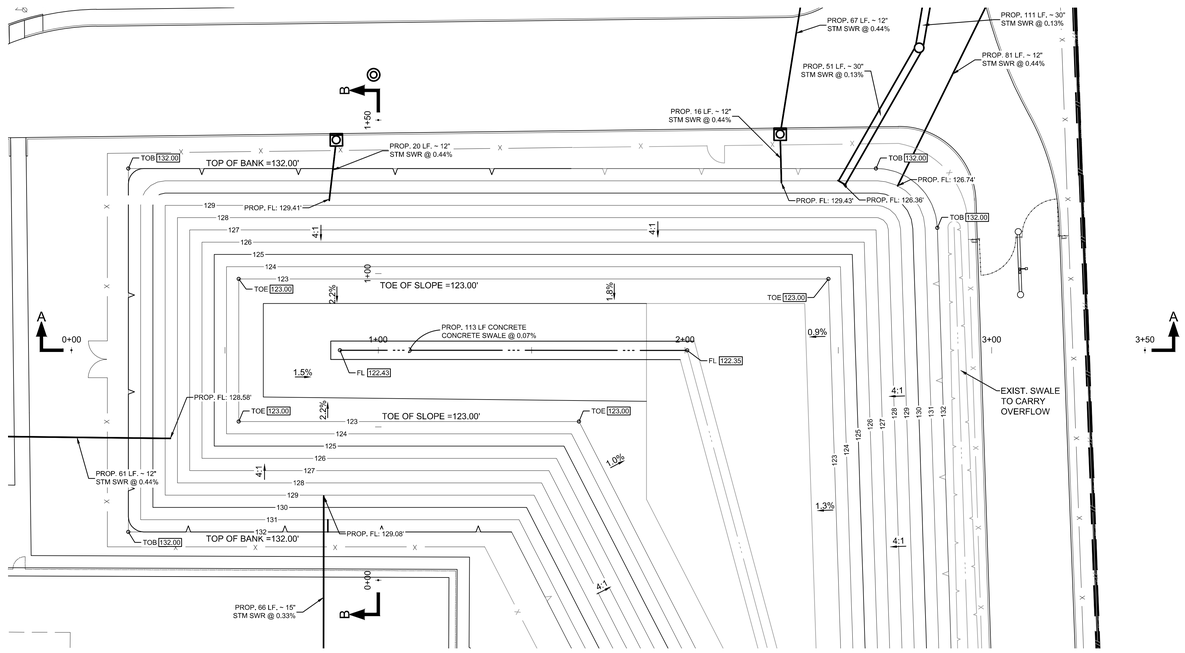
DATE:10-07-2025
Rainfall Frequency (years): 100.00

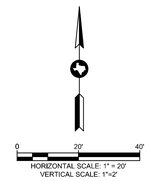
$$i = \frac{b}{(d+TC)^e}$$

b = 60.66
d = 4.44
e = 0.5797

D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\300_DEPT_DOCS\31

From MH	To MH	Sub Area Acres	Sub Runoff Coeff. C	Total Area Acres	Sum of C A	Intensity I (in / Hr.)	Sum of Flows cfs	Time of Conc. min.	LINE Reach Length Feet	# of Pipe	Diam. (in) or Rise (ft)	Slope %	Mannings n"	DESIGN Capacity cfs	Velocity fps	Actual Velocity fps	drop at down stream manhole	HYD. GRAD Hydraulic Gradient %	Change in Head Ft.	Elev. Up Stream	Elev. Down Stream	UPST T.G. Elev. (FT)	flowline upstream	flowline downstream	Comments
A1	A2	0.20	0.80	0.20	0.16	8.98	1.44	22.53	113	1	12	0.44	0.013	2.36	3.01	3.15	0.25	0.1619	0.182	130.68	130.50	132.75	129.75	129.25	OK / 100-YEAR HGL < T.G. ELEV
A2	A3	0.19	0.80	0.39	0.31	8.81	2.75	23.47	48	1	15	0.33	0.013	3.71	3.02	3.31	0.25	0.1800	0.087	130.50	130.41	132.75	129.25	129.04	OK / 100-YEAR HGL < T.G. ELEV
A3	A4	0.09	0.80	0.62	0.50	8.68	4.30	24.19	59	1	18	0.26	0.013	5.36	3.03	3.36	0.50	0.1670	0.099	130.41	130.31	132.90	129.04	128.78	OK / 100-YEAR HGL < T.G. ELEV
A4	A5	0.21	0.80	0.83	0.66	8.59	5.71	24.68	83	1	18	0.26	0.013	5.36	3.06	3.18	0.00	0.0633	0.052	130.31	130.26	132.90	128.53	128.26	OK / 100-YEAR HGL < T.G. ELEV
A5	A6	0.26	0.80	1.09	0.87	8.51	7.42	25.15	63	1	24	0.18	0.013	9.60	3.06	3.37	0.00	0.1071	0.068	130.12	130.05	132.90	128.26	128.05	OK / 100-YEAR HGL < T.G. ELEV
A6	A7	0.13	0.80	1.22	0.98	8.48	8.28	25.36	61	1	24	0.18	0.013	9.60	3.06	3.43	0.00	0.1331	0.081	129.93	129.85	133.00	128.05	127.85	OK / 100-YEAR HGL < T.G. ELEV
A7	A8	0.00	0.80	1.38	1.10	8.44	9.32	25.58	41	1	24	0.18	0.013	9.60	3.06	3.48	0.50	0.1689	0.070	129.56	129.49	133.40	127.60	127.49	OK / 100-YEAR HGL < T.G. ELEV
A8	A9	0.00	0.80	2.14	1.71	8.31	14.22	26.43	90	1	30	0.13	0.013	14.79	3.01	3.43	0.00	0.1196	0.107	129.32	129.21	132.94	126.15	125.99	OK / 100-YEAR HGL < T.G. ELEV
A9	A10	0.07	0.80	2.21	1.77	8.30	14.67	26.50	86	1	30	0.13	0.013	14.79	3.01	3.43	1.00	0.1272	0.110	129.21	129.10	131.60	125.99	125.84	OK / 100-YEAR HGL < T.G. ELEV
A10	A11	0.00	0.80	4.29	3.43	8.08	27.74	27.92	49	1	42	0.09	0.013	30.18	3.14	3.56	0.00	0.0755	0.037	129.10	129.07	132.05	125.34	125.28	OK / 100-YEAR HGL < T.G. ELEV
A11	A12	0.11	0.80	4.40	3.52	8.07	28.42	27.98	150	1	42	0.09	0.013	30.18	3.14	3.57	0.50	0.0794	0.119	129.07	128.95	131.70	125.28	125.08	OK / 100-YEAR HGL < T.G. ELEV
A12	A13	0.09	0.80	5.84	4.67	7.98	37.28	28.64	150	1	48	0.07	0.013	38.00	3.02	3.45	0.00	0.0670	0.100	128.95	128.85	131.25	124.58	124.42	OK / 100-YEAR HGL < T.G. ELEV
A13	A14	0.09	0.80	5.93	4.74	7.97	37.83	28.68	110	1	48	0.07	0.013	38.00	3.02	3.45	0.50	0.0690	0.076	128.85	128.77	131.15	124.42	124.30	OK / 100-YEAR HGL < T.G. ELEV
A14	A15	0.00	0.80	6.98	5.58	7.92	44.22	29.08	43	1	54	0.06	0.013	48.17	3.03	3.43	-1.00	0.0503	0.022	128.77	128.75	131.51	124.30	124.25	OK / 100-YEAR HGL < T.G. ELEV
A15	OUT	0.10	0.80	7.72	6.18	7.88	48.70	29.33	71	1	42	0.09	0.013	30.18	3.14	3.27	-3.50	0.2331	0.165	126.60	126.44	131.10	123.00	122.94	OK / 100-YEAR HGL < T.G. ELEV
A3.A1	A3	0.14	0.80	0.14	0.11	9.07	1.02	22.07	81	1	12	0.44	0.013	2.36	3.01	2.87	-1.00	0.0809	0.066	131.01	130.94	133.30	130.30	129.94	OK / 100-YEAR HGL < T.G. ELEV
A7.A1	A7	0.16	0.80	0.16	0.13	9.04	1.16	22.24	32	1	12	0.44	0.013	2.36	3.01	2.98	-1.00	0.1049	0.033	128.83	128.80	131.80	128.66	0.00	OK / 100-YEAR HGL < T.G. ELEV
A8.A1	A8.A2	0.57	0.80	0.57	0.46	8.70	3.97	24.06	140	1	18	0.26	0.013	5.36	3.03	3.32	0.00	0.1419	0.199	129.63	129.43	131.55	128.55	127.93	OK / 100-YEAR HGL < T.G. ELEV
A8.A2	A8.A3	0.09	0.80	0.66	0.53	8.66	4.57	24.29	130	1	18	0.26	0.013	5.36	3.03	3.40	0.00	0.1885	0.244	129.10	128.86	131.20	127.93	127.36	OK / 100-YEAR HGL < T.G. ELEV
A8.A3	A8	0.10	0.80	0.76	0.61	8.62	5.24	24.53	48	1	18	0.26	0.013	5.36	3.03	3.45	-1.50	0.2476	0.118	128.77	128.65	132.20	127.36	127.15	OK / 100-YEAR HGL < T.G. ELEV
A10.A1	A10.A2	0.10	0.80	0.10	0.08	9.15	0.73	21.67	77	1	12	0.44	0.013	2.36	3.01	2.65	0.00	0.0420	0.033	131.69	131.66	134.00	131.00	130.66	OK / 100-YEAR HGL < T.G. ELEV
A10.A2	A10.A3	0.06	0.80	0.16	0.13	9.04	1.16	22.24	73	1	12	0.44	0.013	2.36	3.01	2.98	0.00	0.1049	0.076	131.59	131.51	134.70	130.66	130.34	OK / 100-YEAR HGL < T.G. ELEV
A10.A3	A10.A4	0.07	0.80	0.23	0.18	8.95	1.65	22.72	57	1	12	0.44	0.013	2.36	3.01	3.24	0.25	0.2124	0.121	131.51	131.39	134.40	130.34	130.09	OK / 100-YEAR HGL < T.G. ELEV
A10.A4	A10.A5	0.09	0.80	0.44	0.35	8.77	3.09	23.65	61	1	15	0.33	0.013	3.71	3.02	3.38	0.25	0.2274	0.140	131.39	131.25	134.00	130.09	129.82	OK / 100-YEAR HGL < T.G. ELEV
A10.A5	A10.A6	0.17	0.80	0.61	0.49	8.68	4.24	24.17	62	1	18	0.26	0.013	5.36	3.03	3.36	0.50	0.1618	0.100	131.25	131.15	132.95	129.82	129.55	OK / 100-YEAR HGL < T.G. ELEV
A10.A6	A10.A7	0.17





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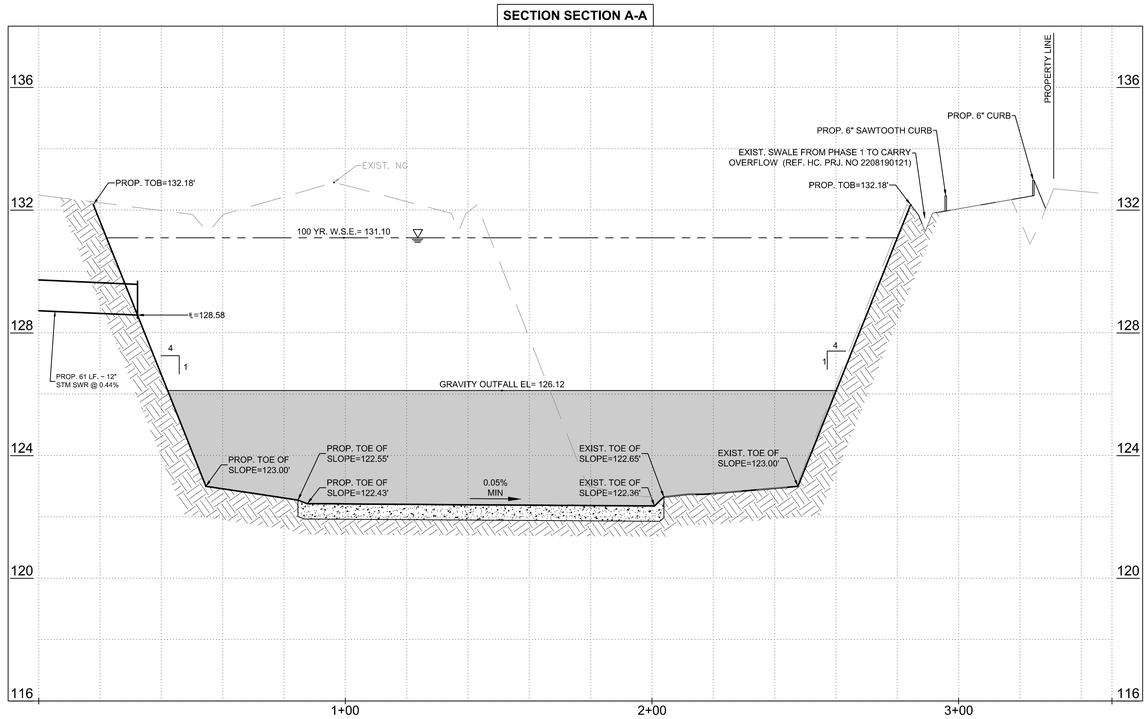

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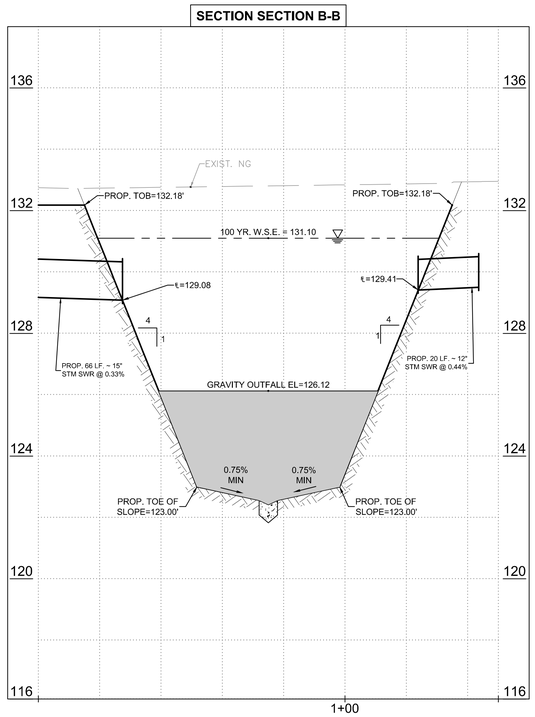

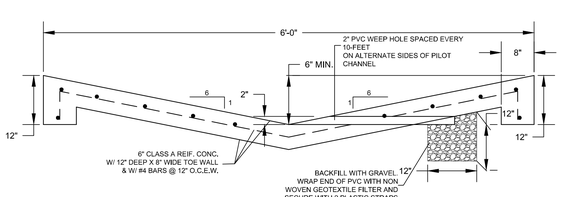

NOTE: PROVIDE EXPANSION JOINTS EVERY 60-FEET

6' CONCRETE PILOT CHANNEL

N.T.S.

DETENTION SUMMARY

REQUIRED DETENTION VOLUME = 28.92 AC-FT

PROVIDED DETENTION EXPANSION VOLUME = 30.58 AC-FT

PROVIDED DETENTION VOLUME > REQUIRED DETENTION VOLUME

REFER TO THE REPORT COMPLETED BY COBB FENDLEY, AND ASSOCIATES, INC. DATED AUGUST 2022 TITLED "HARMONY CITY PLACE DRAINAGE IMPACT ANALYSIS" FOR DETENTION VOLUME CALCULATIONS.

PUMPED DETENTION VOLUME = 11.68 AC-FT (38%)
GRAVITY DETENTION VOLUME = 18.90 AC-FT (62%)

LEGEND

PUMPED DETENTION VOLUME

NOTE:

ACCORDING TO AS-BUILT DRAWINGS FOR SPRING STUEBNER ROAD, SECTION C, DATED APRIL 2012, A 4' X 2' BOX CULVERT DOWNSTREAM OF THE HARMONY CITY PLACE DEVELOPMENT WAS THE LIMITING FACTOR IN DETERMINING THE ALLOWABLE OUTFALL TO THE ROADSIDE DITCH AND SUBSEQUENTLY THE CULVERT ITSELF. THIS CULVERT WAS DETERMINED TO HAVE A CAPACITY OF 28.5 CFS, PER THE AS-BUILT DRAWINGS. THE HARMONY CITY PLACE TRACT COMPRISES ONE-THIRD OF THE OVERALL CONTRIBUTING AREA OF THIS CULVERT. AS SUCH, THE PRO-RATA SHARE OF THE CULVERT CAPACITY DEDICATED TO HARMONY CITY PLACE IS 9.5 CFS. NOTE THAT THIS ALLOWABLE RELEASE RATE IS SIGNIFICANTLY LESS THAN THE ACTUAL EXISTING CONDITION FLOW RATE FROM THE SUBJECT TRACT.

THIS C VALUE MEETS THE SPRINGWOODS VILLAGE GUIDELINES OF A MAX ALLOWABLE COMPOSITE C RUNOFF COEFFICIENT OF 0.5 FOR THE SITE.

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TBPLS Firm Registration No. 100467
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713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

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CONSULTANTS:

CIVIL:
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Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
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The Woodlands, TX 77380
Phone: 281-350-2323

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
DETENTION BASIN LAYOUT

C3.5

C:\fa Info: D:\Projects\202410047_Gignac\01 Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\DWG\241004701-C3.4_DETENTION BASIN LAYOUT.dwg Saved: 6/16/2026 1:44:32 PM rail

NOTE:

UPON COMPLETION OF CONSTRUCTION THE PERMANENT STORM WATER QUALITY FEATURE WILL BE CLEANED OF ALL SEDIMENT AND DEBRIS THAT MAY HAVE ACCUMULATED. ADDITIONALLY, ALL DISTURBED AREAS RELATED TO THIS PROJECT WILL BE COMPLETELY STABILIZED, THIS WILL BE DONE PRIOR TO SUBMITTING AN "AS-BUILT CERTIFICATE" AND CALLING FOR FINAL INSPECTION. HARRIS COUNTY ENGINEERING WILL NOT PASS THE FINAL INSPECTION OR ISSUE THE CERTIFICATE OF COMPLIANCE UNTIL THE REQUIRED FINAL CLEANOUT AND STABILIZATION HAVE BEEN COMPLETED. THE DEVLOPMENT IS NOT APPROVED FOR OPERATION UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN ISSUED.

SERVICE AREA OF STORM WATER QUALITY FEATURES (28.92 AC) COVERED UNDER HARRIS COUNTY STORMWATER QUALITY PERMIT NO. 2208190121-SWAP-001

SURVEYOR

COBBFENDLEY
4424 W SAM HOUSTON PKWY N, SUITE 600, HOUSTON, TX 77041
PH: (713) 462-3242
FX: (713) 462-3242

BENCHMARK

REFERENCE BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL, NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARK

TRAVERSE NO. 1
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 47.9 FEET SOUTH AND 157.7 FEET WEST FROM THE MOST SOUTHERLY SOUTHWEST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 132.69 (FEET)

TRAVERSE NO. 2
5/8-INCH IRON ROD WITH ORANGE CAP STAMPED "CFA TRV" LOCATED IN THE GRASS MEDIAN AND BEING 49.2 FEET SOUTH AND 49.5 FEET WEST FROM THE SOUTHEAST CORNER OF SUBJECT TRACT SHOWN HEREON.
ELEVATION = 131.31 (FEET)

FLOODPLAIN

THE PROPERTY SHOWN HEREON (EITHER IN TOTAL OR A PORTION) IS LOCATED IN THE FOLLOWING ZONE(S) BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS 48201C0255L, DATED JUNE 18, 2007.

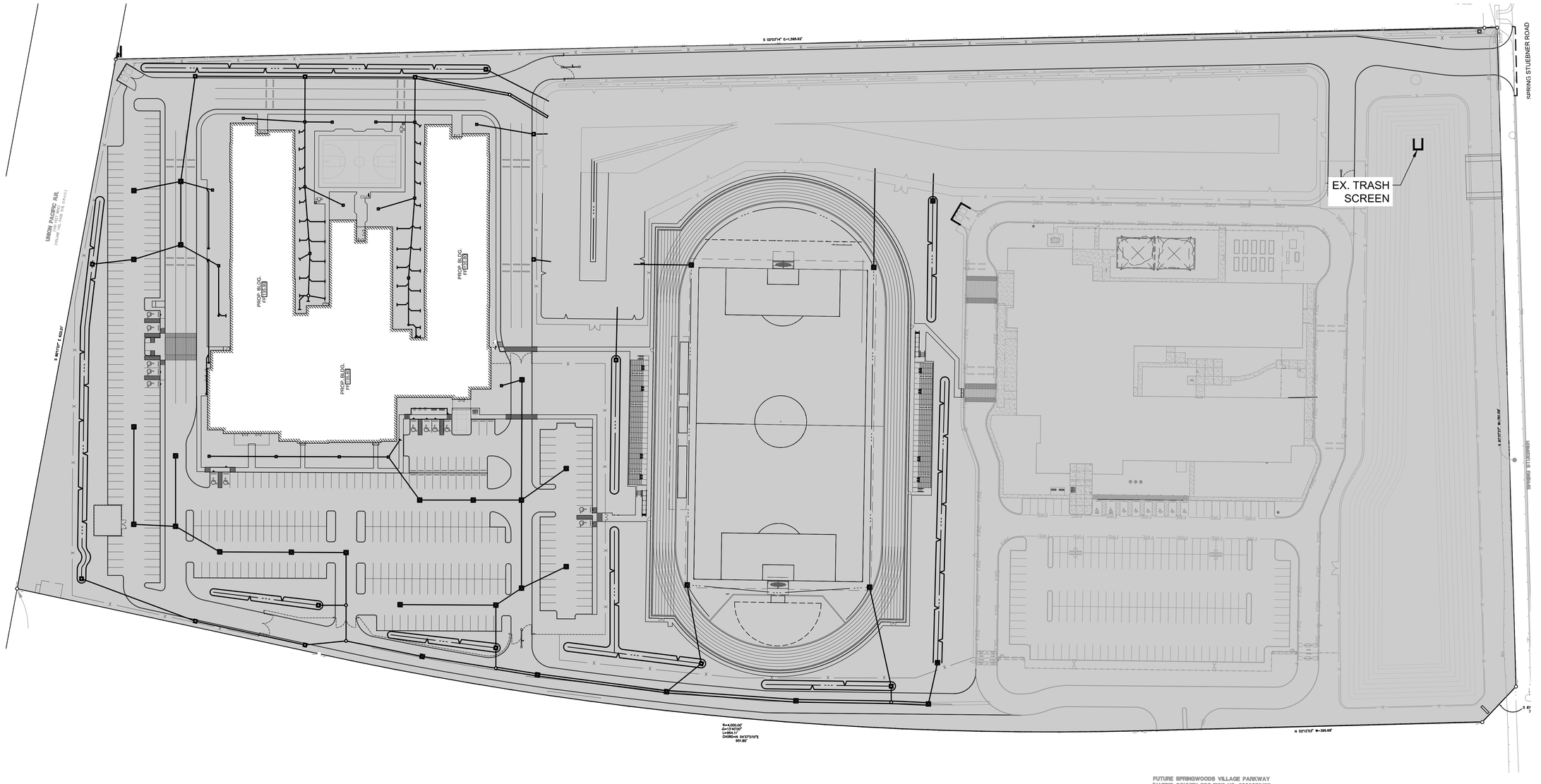
UNSHADED ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

ELEVATIONS WERE OBTAINED AND REFERENCED TO THE FLOOD PLAIN DATUM.

DETERMINATION OF THE FLOOD ZONE IS BASED ON THE GRAPHICAL DELINEATION OF THE ZONES AS DEPICTED ON THE FLOOD PLAIN MAPS.

IF THIS PROPERTY IS NOT WITHIN AN IDENTIFIED FLOOD HAZARD AREA, THIS INFORMATION DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOODPLAIN INFORMATION SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

0 50' 100'
SCALE: 1" = 50'
Harris County
Key Map No. 291-M, 291-R



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Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
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MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
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Tel : 210-546-0200

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Phone: 210-698-7887

FOOD SERVICE DESIGN:
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Phone: 281-350-2323

HARMONY PUBLIC SCHOOLS

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SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

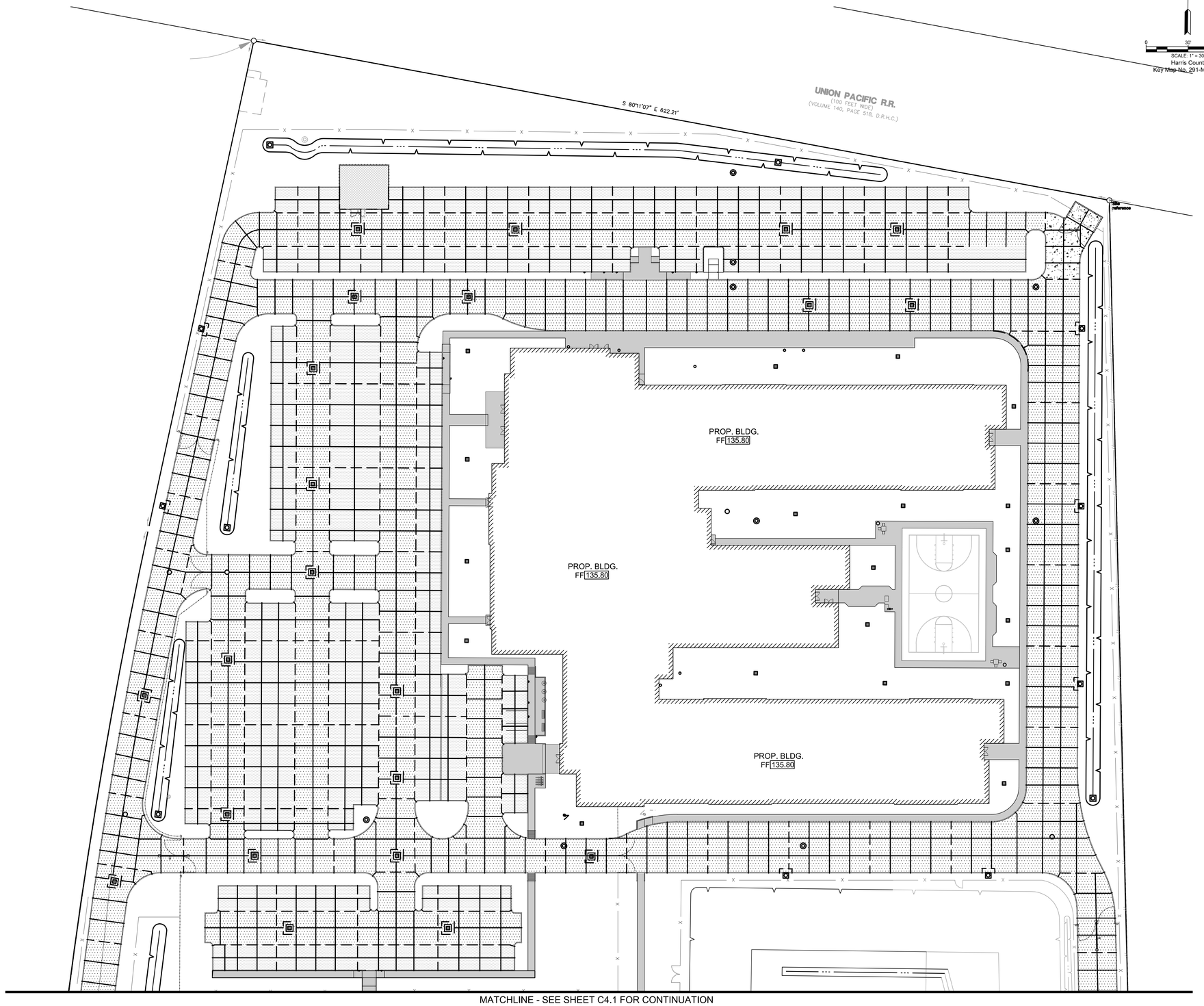
Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
STORM WATER QUILITY MANAGEMENT PLAN

C3.6

City Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_Middle\High_School\400_CAD\410_Land\DWG\241004701-C3.5_SWQMP.dwg Saved: 6/2/2026 9:47:47 AM aali



0 30' 60'
SCALE: 1" = 30'
Harris County
Key Map No. 291-M, 291-R

SURVEYOR

COBBFENDLEY
4424 W SAM HOUSTON PKWY N, SUITE 600, HOUSTON, TX 77041
PH: (713) 462-3242
FX: (713) 462-3242

BENCHMARK

REFERENCE BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 100315 IS A BRASS DISK STAMPED "100315" LOCATION: FROM THE INTERSECTION OF IH 45 AND FM 2920, WEST ALONG FM 2920 2.5 MILES TO FALVEL, NORTH ALONG FALVEL 0.8 MILES TO SPRING STUEBNER, WEST ALONG SPRING STUEBNER 0.2 MILES TO MOSSY OAKS, NORTH ALONG MOSSY OAKS 0.6 MILES TO DITCH AFTER RAILROAD TRACKS AND BENCHMARK ON THE LEFT.

ELEVATION = 134.36 (FEET) NAVD 1988 (2001 ADJUSTMENT)

SITE BENCHMARK

TRAVERSE NO. 1
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ELEVATION = 132.69 (FEET)

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ELEVATION = 131.31 (FEET)

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PROP. LEGEND

- PROP. EXPANSION JOINT (SEE DETAIL, SHT. C6.0)
- PROP. CONTROL JOINT (SEE DETAIL, SHT. C6.0)
- PROP. ISOLATION JOINT (SEE DETAIL, SHT. C6.0)
- PROP. SAWCUT (SEE DETAIL, SHT. C6.0)
- PROPOSED 5" CONCRETE PAVEMENT (SEE DETAIL, SHT. C6.0)
- PROPOSED 6" CONCRETE PAVEMENT (SEE DETAIL, SHT. C6.0)
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- PROPOSED 4-1/2" CONCRETE SIDEWALK (SEE DETAIL, SHT C6.0)
- PROPOSED RIP RAP (SEE DETAIL, SHT. C6.0)
- ELECTRICAL PAD (SEE MEP FOR DETAILS)

NOTE 'A'

EXPOSE 15" OF REINFORCING STEEL @ PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXIST, USE HORIZONTAL DOWELS, HORIZONTAL DOWELS SHALL BE #4 BARS 24" LONG C-C, DRILLED AND EMBEDDED 12" INTO THE CENTER OF EXISTING PAVEMENT WITH "SUPER POR-ROK" OR ENGINEERED APPROVED EQUAL.

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TEXAS 77379

STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED ARCHITECT
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
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Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
PAVEMENT AND JOINT PLAN (1 OF 2)

CobbFendley
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TBPLS Firm Registration No. 100467
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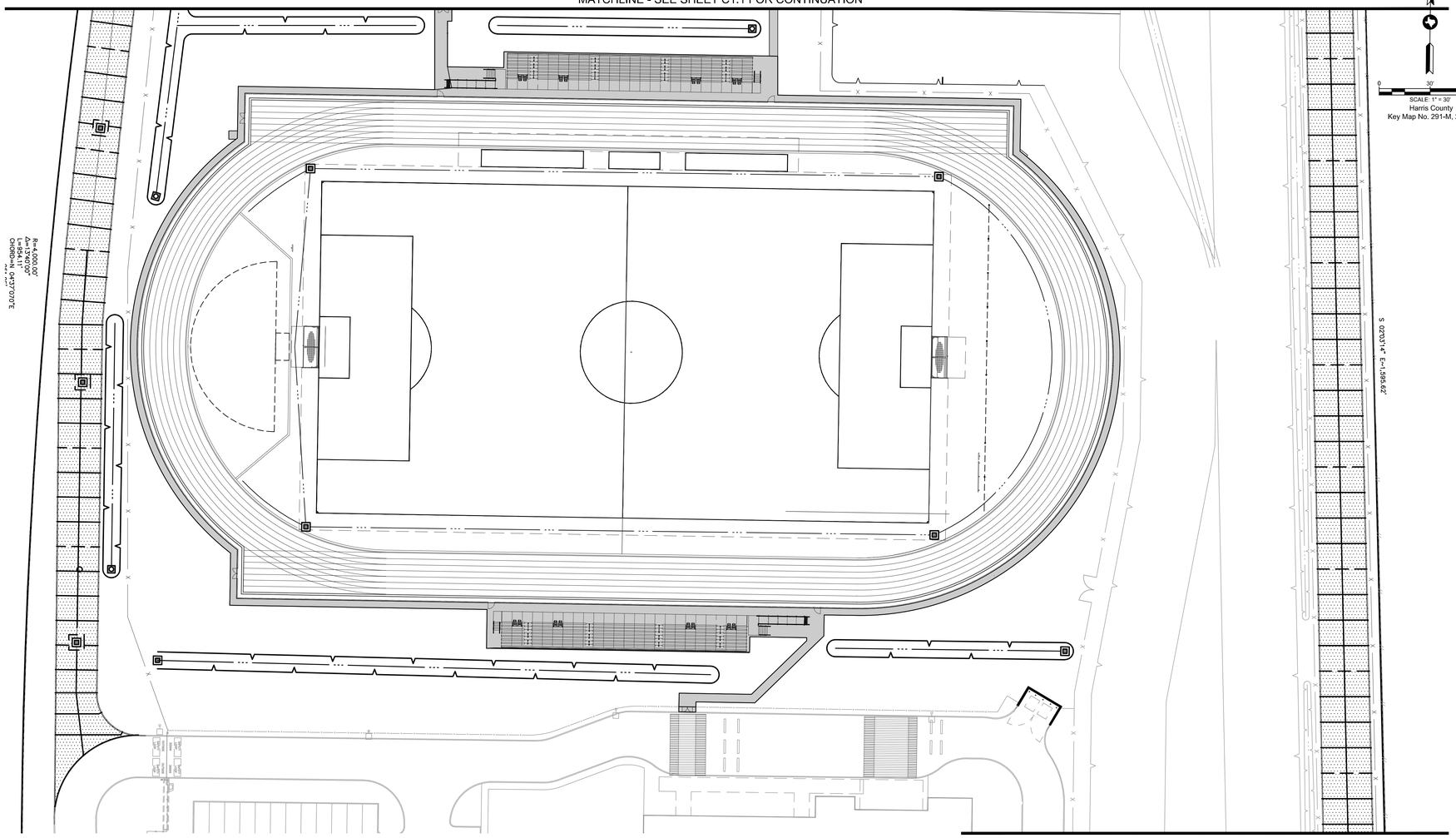
Katy, Texas 77494
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

C4.0

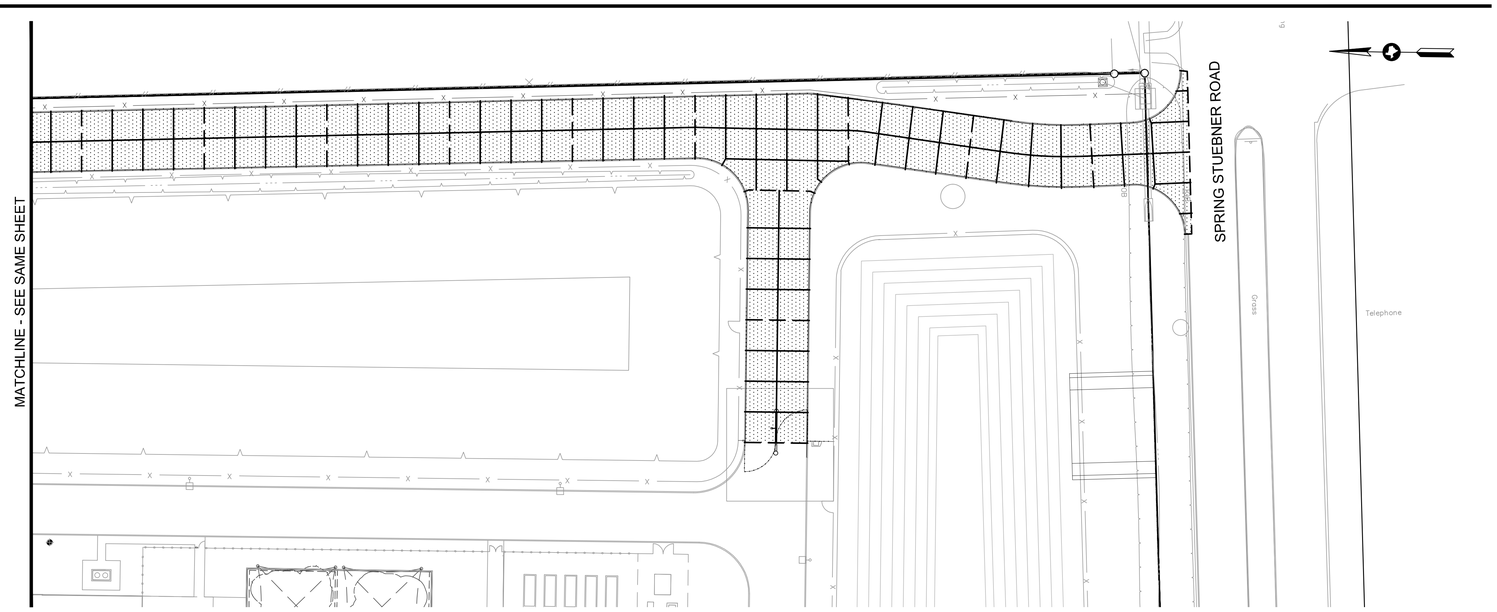
Cfa Info: D:\Projects\2024\10047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\DWG\241004701-C4.0_PAVEMENT AND JOINT PLAN.dwg Saved: 6/2/2026 5:14:37 PM rali

MATCHLINE - SEE SHEET C1.1 FOR CONTINUATION



Harris County
Key Map No. 291-M, 291-R

MATCHLINE - SEE SAME SHEET



SURVEYOR

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STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
PAVEMENT AND JOINT PLAN (2 OF 2)

CobbFendley
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TBPLS Firm Registration No. 100467
22316 Grand Corner Dr, Suite 100
Katy, Texas 77494
713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

C4.1

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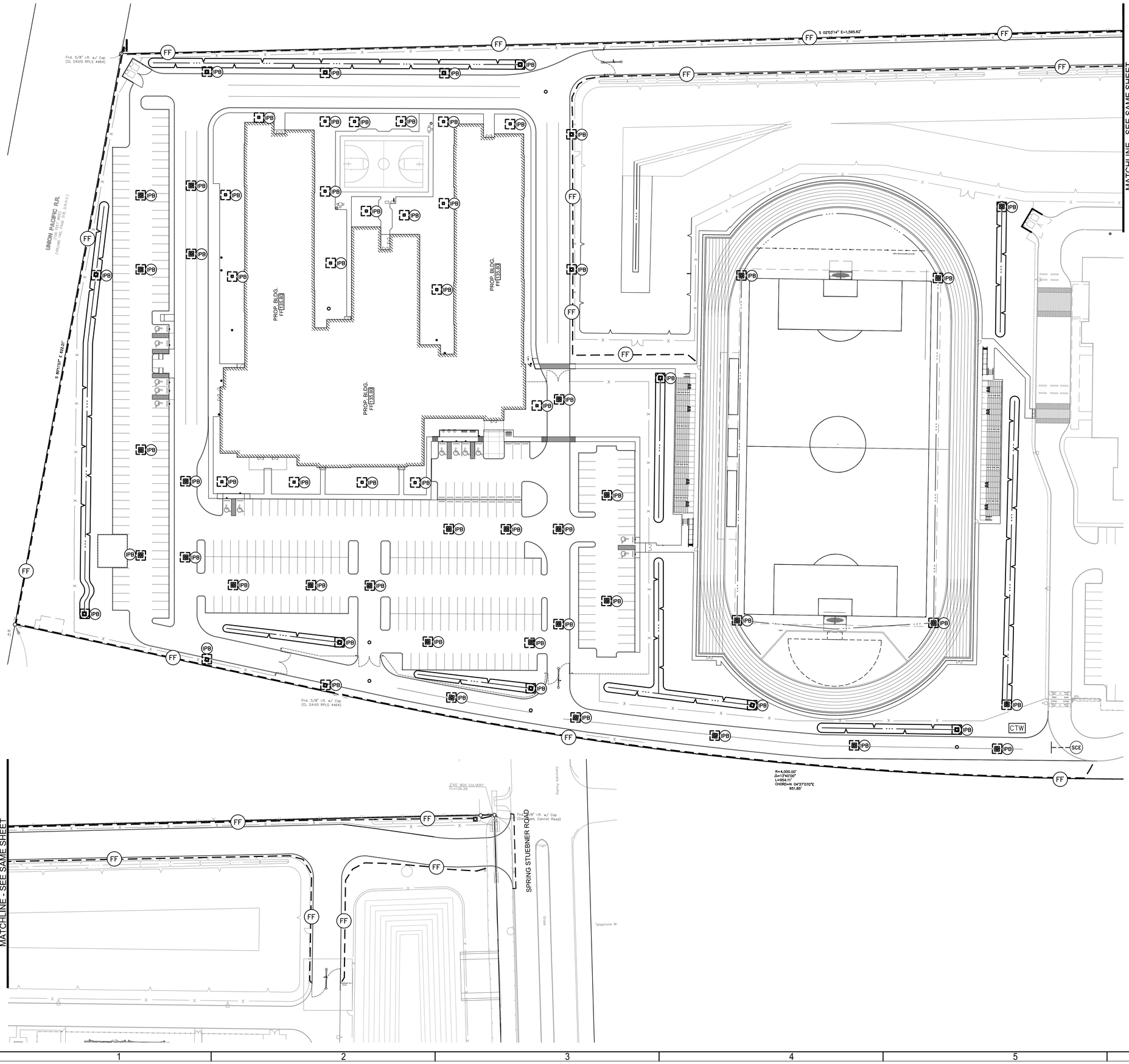

0 40' 80'
SCALE: 1" =40'

SURVEYOR

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PROP. LEGEND

IPB	INLET PROTECTION BARRIER STAGE I (SEE SHT. C5.1 FOR DETAILS)
IPB–II	INLET PROTECTION BARRIER STAGE II (SEE SHT. C5.1 FOR DETAILS)
FF	FILTER FABRIC FENCE (SEE SHT. C5.1 FOR DETAILS)
SCE	STABILIZED CONSTRUCTION EXIT (SEE SHT. C5.1 FOR DETAILS)
CTW	CONCRETE TRUCK WASHOUT (SEE SHT. C5.1 FOR DETAILS)

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KEYPLAN

Project Number: 24.23
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Sheet Title:
STORM WATER POLLUTION PREVENTION PLAN

C5.0

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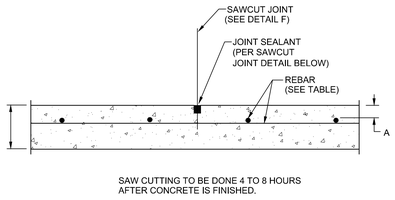
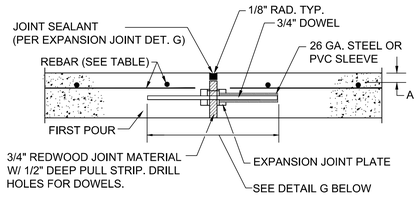
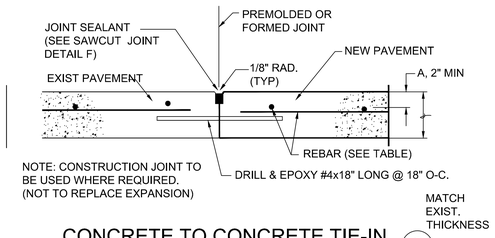
C5a Info: D:\Projects\2024110047_Gignac\01_Harmony_City_Place_Phase_II_MiddleHigh_School\400_CAD\410_Land\DWG\241004701-C5.0_SWPPP.dwg/ Saved: 1/28/2026 5:46:31 PM/ aali



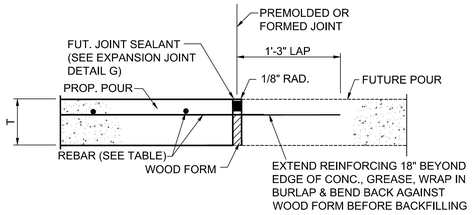
SAWCUT JOINT (A)
N.T.S.



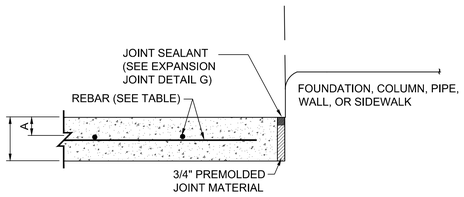
EXPANSION JOINT (B)
N.T.S.



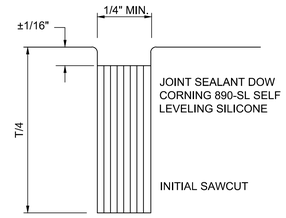
CONCRETE TO CONCRETE TIE-IN (C)
(TO CONNECT WITH EXISTING PAVEMENT)
N.T.S.



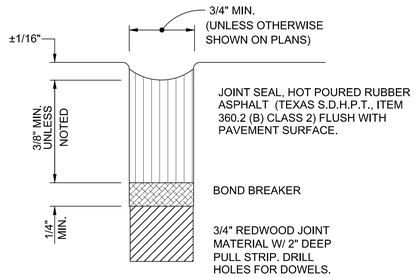
FUT. CONSTRUCTION JOINT (D)
(TO CONNECT WITH FUTURE PAVEMENT)
N.T.S.



ISOLATION JOINT (E)
N.T.S.



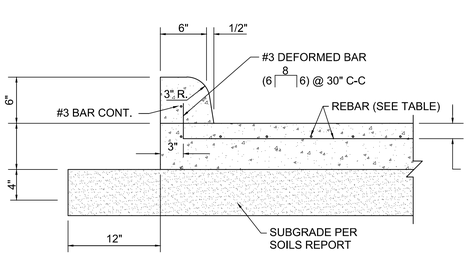
SAWCUT JOINT DETAIL (F)
N.T.S.



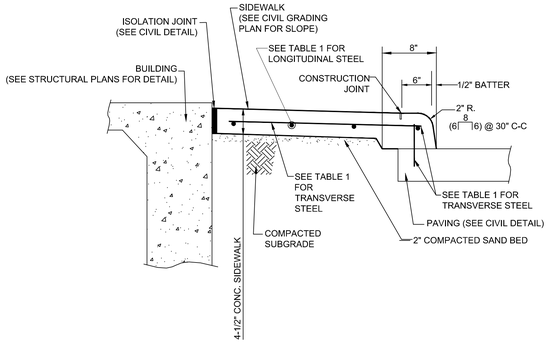
EXPANSION JOINT (G)
N.T.S.

DOWELS AT EXPANSION JOINTS

SLAB THICKNESS "T" (IN.)	SIZE AND PLACEMENT	TOTAL LENGTH	EMBEDMENT "A"
5	5/8" DIA. @ 12" C-C	12"	5"
6	3/4" DIA. @ 12" C-C	14"	6"
7	7/8" DIA. @ 12" C-C	14"	6"



CONCRETE CURB DETAIL
N.T.S.

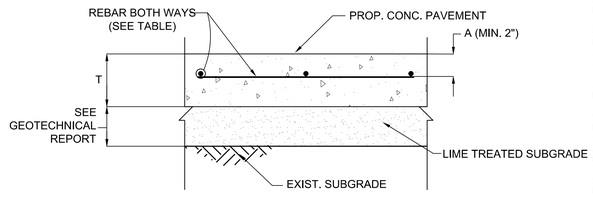


SIDEWALK AT BUILDING
N.T.S.

REBAR TABLE

SLAB THICKNESS "T" (IN.)	MAX. CONTROL JOINT SPACING (FT.)	MAX. EXPANSION JOINT SPACING (FT.)	60,000psi REINFORCING STEEL BAR SIZE & SPACING	
5	12.5	60	#3 @ 18" C-C	#4 @ 24" C-C
6	15.0	60	#3 @ 12" C-C	#4 @18" C-C
7	17.5	60	#4 @ 18" C-C	–

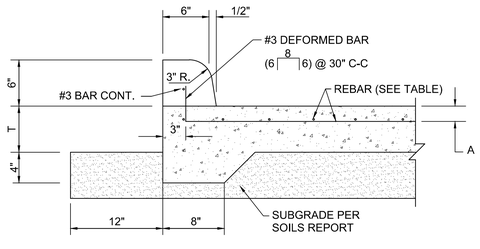
TABLE 2



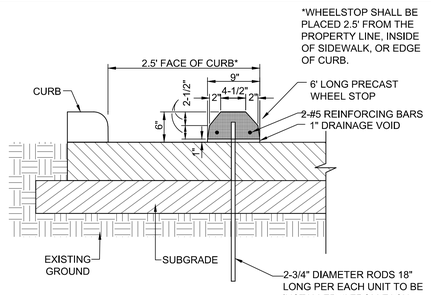
CONCRETE PAVEMENT DETAIL
N.T.S.

NOTES:

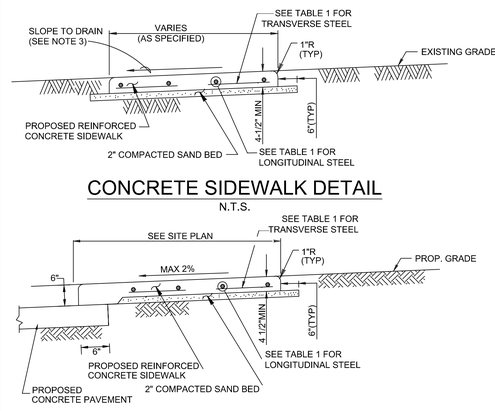
1. REINFORCING STEEL BAR SIZE/SPACING AND PAVEMENT THICKNESS SPECIFICATIONS IN GEOTECH REPORT SHALL SUPERSEDE TABLE 2.
2. REINFORCING STEEL SIZE/SPACING IS BASED ON MIN. 60,000 PSI TENSILE STRENGTH REINFORCING STEEL AS SHOWN.
3. CONCRETE PAVING MIX DESIGN WILL HAVE MINIMUM 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GEOTECH REPORT CONCRETE PAVING MIX DESIGN SHALL SUPERCEDE VALUES HEREIN. MIX TO CONTAIN 5.5 SACK OF CEMENT PER CUBIC YARD.
4. MAXIMUM JOINT SPACING SHALL BE PER JOINT LAYOUT PLAN (IF PROVIDED) BUT SHALL NOT EXCEED VALUES IN TABLE.
5. MAXIMUM JOINT SPACING IN GEOTECHNICAL REPORT SHALL SUPERCEDE VALUES IN ABOVE TABLE.
6. CONTRACTOR TO REFERENCE GEOTECHNICAL REPORT, FOR SUBGRADE SOIL PREPARATION REQUIREMENTS.
7. ALL JOINTS IN PAVING SHALL BE REFLECTED IN CURBING AND SHALL HAVE ALL THEIR RESPECTIVE JOINTING MATERIALS PRESENT (I.E. EXPANSION JOINTS SHALL CONTINUE THROUGH THE CURB AND SHALL HAVE THEIR RESPECTIVE FILLER BOARD AND CAULK REPLACED).
8. CURB EXPANSION JOINTS:- IF THERE IS AN EXPANSION JOINT IN THE PAVING, THE EXPANSION JOINT MUST FOLLOW THROUGH AT THE CURB. THE REINFORCING STEEL MUST ALSO BE CUT AT THE EXPANSION JOINT AND NOT ALLOWED TO RUN THROUGH THE JOINT CONTINUOUSLY. A SAW CUT EXPANSION JOINT IS NOT ACCEPTABLE BECAUSE NORMAL EXPANSION AND CONTRACTION WILL CAUSE THE CONCRETE TO PUSH AGAINST THE TWO SECTIONS AND ONE SIDE WILL EVENTUALLY FAIL. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, THE CURB SHOULD BE CUT TWICE AND A 3/4" PIECE OF CONCRETE IS REMOVED. IN ALL CASES THE JOINT SHOULD BE CAULKED WITH NP1.
9. CONCRETE TOUCHING THE BACK OF CURBS:- ANY CONCRETE THAT TOUCHES THE BACK OF A CURB INCLUDING SIDEWALKS, ISLAND NOSINGS AND PAYPHONE PADS SHALL BE ISOLATED FROM THE CURB USING 1/2" BLACK ASPHALT IMPREGNATED FIBERBOARD. CONTRACTOR SHALL USE A REMOVABLE STRIP OR A ZIP-STRIP AND SEAL THE JOINT WITH SI,1. THE ONLY EXCEPTION IS IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT.
10. CURBS AT THE BUILDING FOUNDATION:- IF A CURB TOUCHES THE BUILDING FOUNDATION, IT NEEDS TO BE ISOLATED WITH EXPANSION JOINT MATERIAL JUST LIKE THE PAVING. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, A 1/2" PIECE OF CONCRETE SHOULD BE REMOVED. THE JOINT SHOULD BE CAULKED WITH NP1.
11. EXPANSION JOINTS AT ISLAND NOSINGS:- IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT, THEN PAVING EXPANSION JOINTS SHOULD CONTINUE THROUGH THE NOSINGS.



CONCRETE CURB WITH TURN DOWN DETAIL
N.T.S.



WHEEL STOP w/ CURB
N.T.S.



CONCRETE SIDEWALK DETAIL
N.T.S.

NOTES:

1. 6x6 - W2.9xW2.9 WELDED WIRE FABRIC MAY BE USED IN LIEU OF THE REINFORCING STEEL GIVEN IN TABLE 1.
2. MAXIMUM SPACING FOR EXPANSION JOINTS SHALL BE 40 FEET, AND SHALL MATCH ADJACENT PAVING SPACING.
3. CROSS SLOPE SHALL BE 1/8"/FT. (MIN.) AND 1/4"/FT. MAX, UNLESS OTHERWISE SPECIFIED ON GRADING PLAN.
4. LONGITUDINAL SLOPE SHALL BE 5% MAX PER AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS UNLESS OTHERWISE SPECIFIED ON GRADING PLAN.
5. SEE ARCHITECTURAL PLAN FOR PAVEMENT COLOR AND TEXTURE TREATMENT.
6. MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY MACHINE, BUT CURB WILL HAVE SAME OUTSIDE DIMENSIONS.
7. WHEN CONCRETE CURB IS TO BE PLACED ON EXIST. CONCRETE BASE DRILL & SET IN QUICK SULFER, QUICK SETTING CEMENT OR EPOXY #8 DEFORMED BARS (6 6) @ 30 8 C-C.
8. CONCRETE SHALL BE 3,500 PSI @ 28 DAYS UNLESS SPECIFIED OTHERWISE IN GEOTECHNICAL REPORT.
9. ALL STEEL SHOWN IS MINIMUM 60,000 PSI REINFORCING.
10. SIDEWALK SHALL BE BROOM-FINISHED UNLESS OTHERWISE SPECIFIED IN PLAN.
11. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE GENERAL CONTRACTOR.
12. SIDEWALK MIX DESIGN SHALL MEET CONCRETE PAVEMENT MIX DESIGN.

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4-1/2" THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
CONC. STRENGTH @ 28 DAYS = 3,500 PSI AND
REINFORCING STEEL STRENGTH = 60,000 PSI

SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL # 3 BARS NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	TRANSVERSE STEEL # 3 BARS SPACING (IN)
4	3	21	3	48
5	3	27	3	48
6	4	22	3	48

NOTE: FOR SIDEWALKS GREATER THAN 6 FT. WIDE, LONGITUDINAL STEEL SHALL BE SPACED @ 21" O.C. MAX.

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STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED
PROFESSIONAL
ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
CONSTRUCTION DETAILS (1 OF 4)

C6.0

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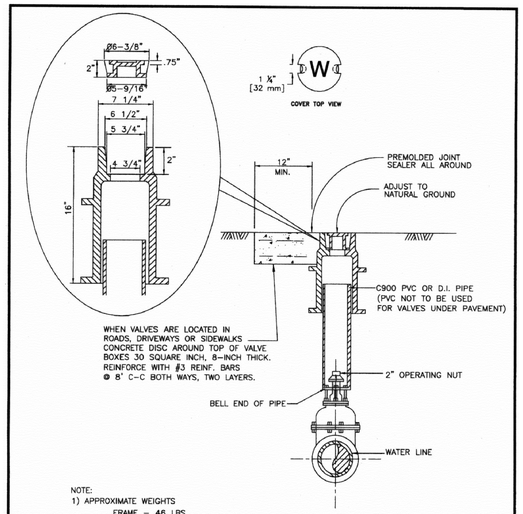
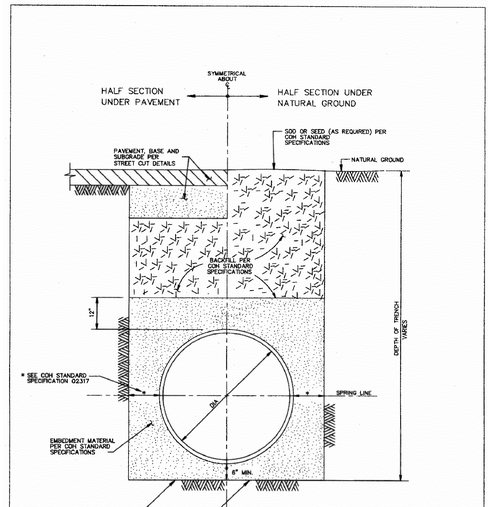


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

VALVE BOX DETAIL

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER | DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF. DATE: JULY 01, 2010 | DWG. NO: 02085-03

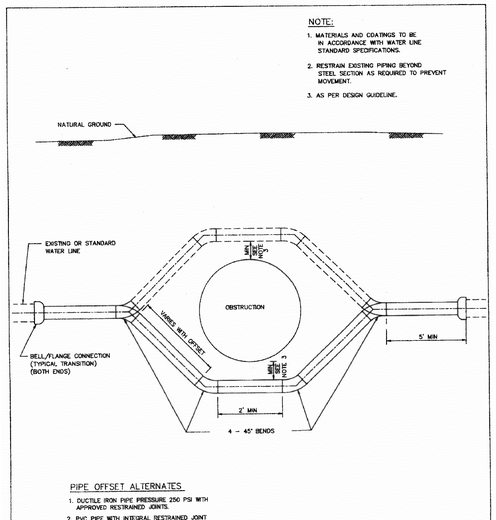


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER DISTRIBUTION MAIN BEDDING AND BACKFILL FOR OPEN CUT TRENCHES

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER | DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010 | DWG NO: 02317-04



PIPE OFFSET ALTERNATES

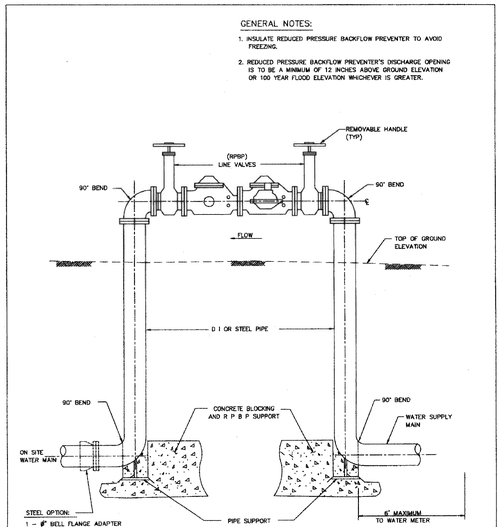
1. DUCTILE IRON PIPE PRESSURE 250 PSI WITH APPROVED RESTRAINED JOINTS.
2. PVC PIPE WITH INTEGRAL RESTRAINED JOINT SYSTEM, OR DUCTILE – IRON RESTRIMED JOINT FITTINGS, EPOXY LINED AND COATED. USE 250 PSI AWWA C900 OR 14 FOR PVC RESTRAINED JOINTS.
3. PVC NOT ALLOWED FOR GREATER THAN 20 FT OF COVER OR FOR DIAMETER LARGER THAN 20 IN.
4. USE ONLY DUCTILE IRON AND PVC PRODUCTS LISTED ON DOE DIVISION APPROVED PRODUCTS LIST AND IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TYPICAL STEEL PIPE OFFSET SECTION FOR WATER LINES

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER | DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010 | DWG NO: 02511-01

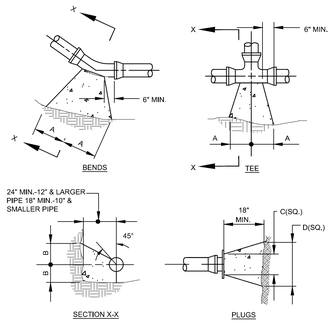


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

REDUCED PRESSURE BACKFLOW – PREVENTER (R P B P)

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER | DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010 | DWG NO: 02523-01

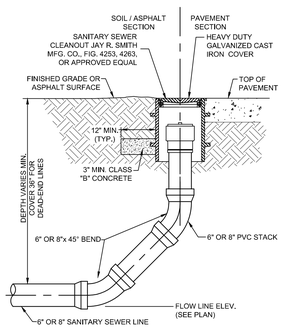


SOIL TYPE	PIPE SIZE	90° BENDS		45° BENDS		22.5° BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE I 4000 PSF SOIL	6"	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
	16"	26"	20"	16"	18"	11"	13"	18"	20"	20"	38"
TYPE II 2000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTE:
BASED ON 100 P.S.I. STATIC PRESSURE PLUS A.W.W.A. HAMMER.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

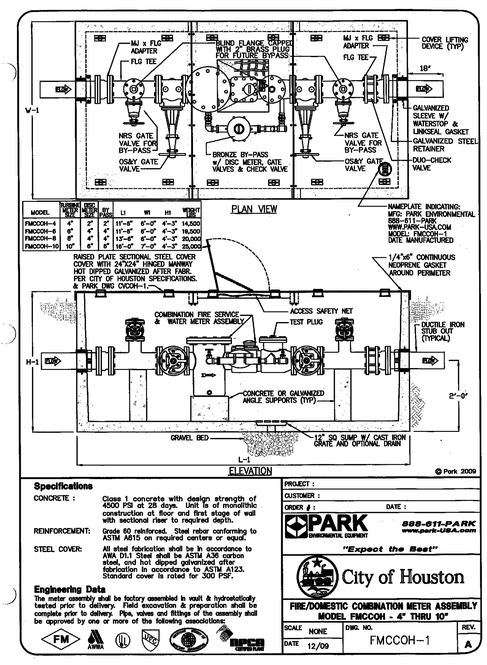
THRUST BLOCKING DETAIL

N.T.S.



CLEANOUT DETAIL

N.T.S.



MODEL	SUCTION SIZE	DISCH. SIZE	L1	W1	H1	WEIGHT LBS
FMCCOH-4	4"	2"	11'-8"	6'-0"	4'-3"	14,500
FMCCOH-6	6"	4"	11'-8"	6'-0"	4'-3"	19,000
FMCCOH-8	8"	4"	13'-8"	6'-0"	4'-3"	20,000
FMCCOH-10	10"	6"	16'-8"	7'-0"	4'-3"	25,000

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Specifications

CONCRETE : Class 1 concrete with 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.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

STEEL COVER: All steel fabrication shall be in accordance to ANA D1.1 Steel shall be ASTM A36 carbon steel, and hot dipped galvanized after fabrication in accordance to ASTM A123. Standard cover is rated for 300 PSF.

Engineering Data

The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

PROJECT :
CUSTOMER :
ORDER # : DATE :

PARK ENVIRONMENTAL EQUIPMENT 888-811-PARK www.park-USA.com

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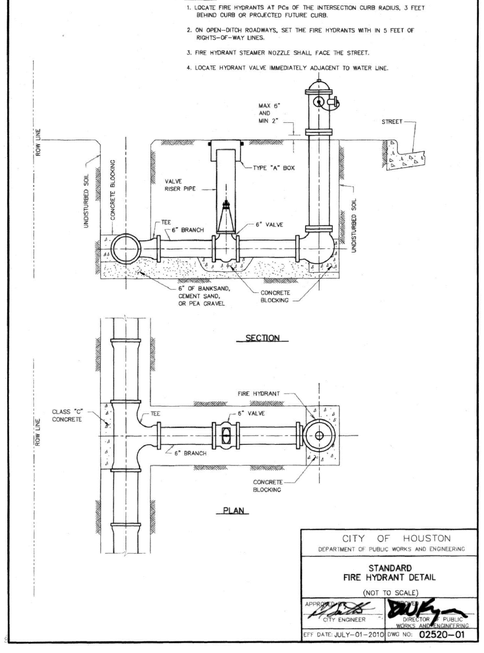
City of Houston

FIRE/DOMESTIC COMBINATION METER ASSEMBLY MODEL FMCCOH - 4" THRU 10"

SCALE	NONE	DWG. NO.	REV.
DATE	12/09	FMCCOH-1	A



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STANDARD FIRE HYDRANT DETAIL

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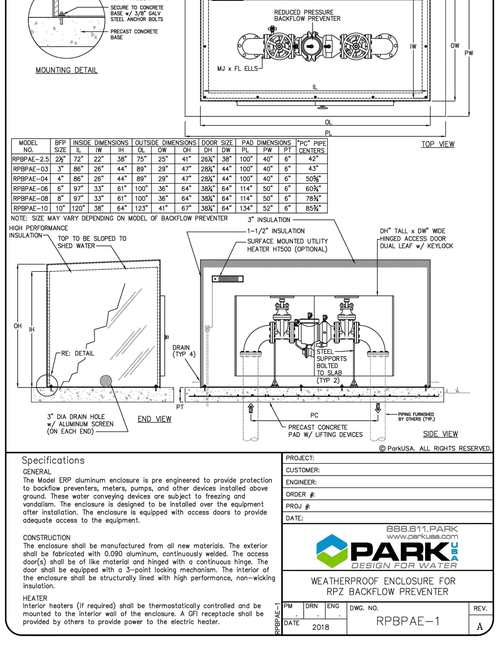
APPROVED BY: CITY ENGINEER | DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010 | DWG NO: 02520-01



MODEL NO.	BFP SIZE	INSIDE DIMENSIONS PL	IW	IH	OUTSIDE DIMENSIONS OL	OW	OH	DOOR SIZE DH	DW	PAD DIMENSIONS PL	PW	PT	"HC" PIPE CENTERS
RPBPAE-2.5	2½"	72"	22"	38"	75"	25"	41"	26⅜"	38"	100"	40"	6"	42"
RPBPAE-03	3"	86"	26"	44"	89"	29"	47"	26⅜"	44"	100"	40"	6"	43"
RPBPAE-04	4"	86"	26"	44"	89"	29"	47"	26⅜"	44"	100"	40"	6"	50⅝"
RPBPAE-06	6"	97"	33"	61"	100"	36"	64"	38⅜"	64"	114"	50"	6"	60⅝"
RPBPAE-08	8"	97"	33"	61"	100"	36"	64"	38⅜"	64"	114"	50"	6"	78⅝"
RPBPAE-10	10"	120"	38"	64"	123"	41"	67"	38⅜"	64"	134"	52"	6"	85⅜"

NOTE: SIZE MAY VARY DEPENDING ON MODEL OF BACKFLOW PREVENTER

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Specifications

GENERAL
The Model ERP aluminum enclosure is pre engineered to provide protection to backflow preventers, meters, pumps, and other devices installed above ground. These water conveying devices are subject to freezing and vandalism. The enclosure is designed to be installed over the equipment after installation. The enclosure is equipped with access doors to provide adequate access to the equipment.

CONSTRUCTION
The enclosure shall be manufactured from all new materials. The exterior shall be fabricated with 0.090 aluminum, continuously welded. The access door(s) shall be of like material and hinged with a continuous hinge. The door shall be equipped with a 3-point locking mechanism. The interior of the enclosure shall be structurally lined with high performance, non-wicking insulation.

HEATER
Interior heaters (if required) shall be thermostatically controlled and be mounted to the interior wall of the enclosure. A GFI receptacle shall be provided by others to provide power to the electric heater.

PROJECT:
CUSTOMER:
ENGINEER:
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PROJ #:
DATE:

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PARK ENVIRONMENTAL EQUIPMENT
DESIGN FOR WATER

WEATHERPROOF ENCLOSURE FOR RPZ BACKFLOW PREVENTER

PM	DRN	ENG	DWG. NO.	REV.
DATE	2018		RPBPAE-1	A

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ENGINEER
6/25/2026

KEYPLAN

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No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
CONSTRUCTION DETAILS (2 OF 4)

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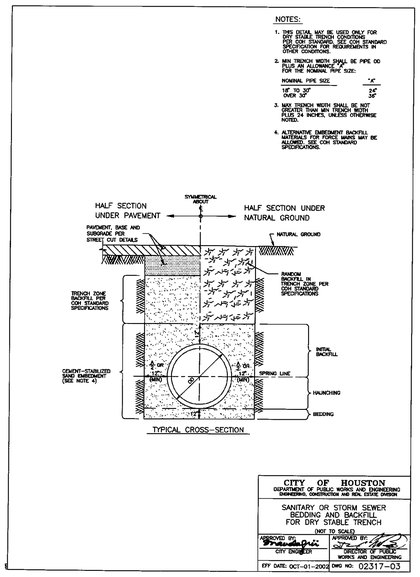

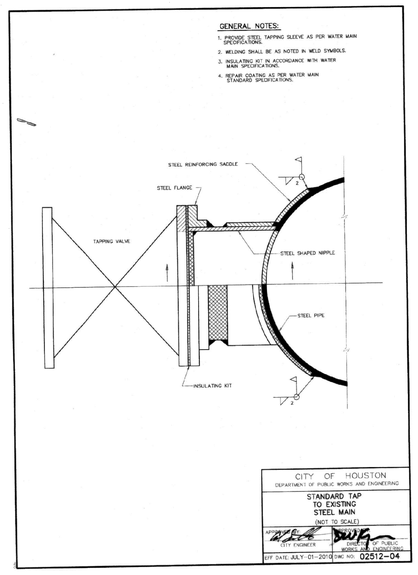

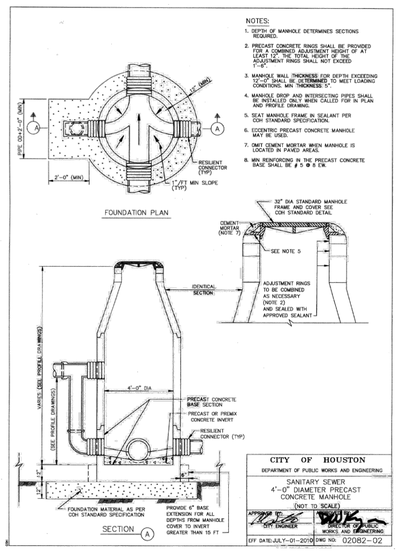

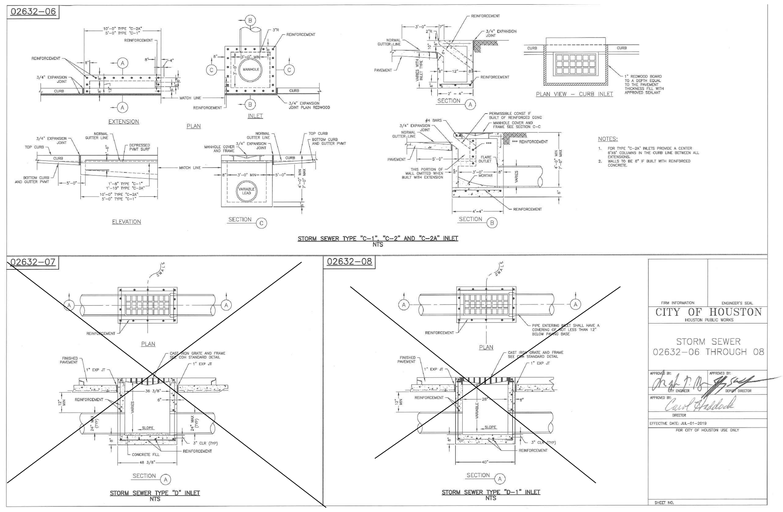

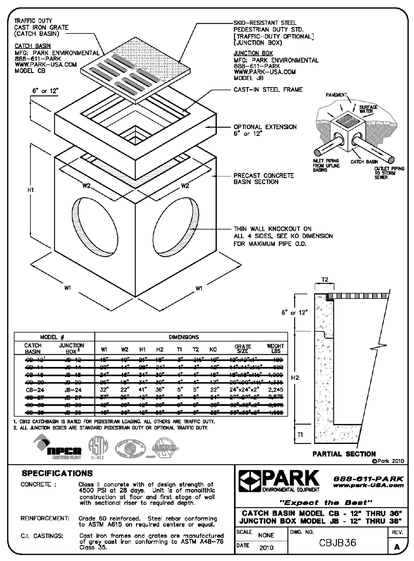

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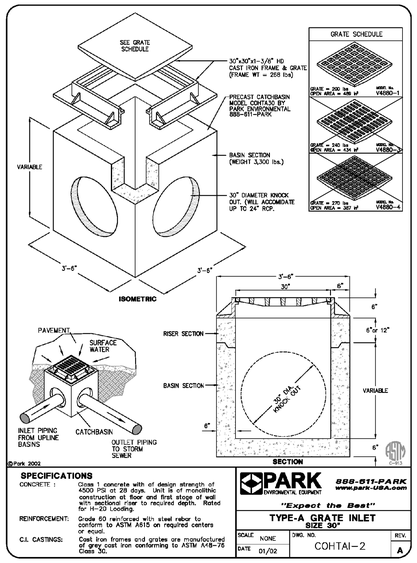

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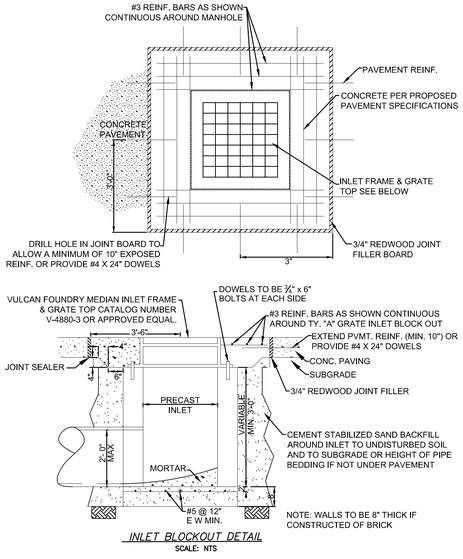

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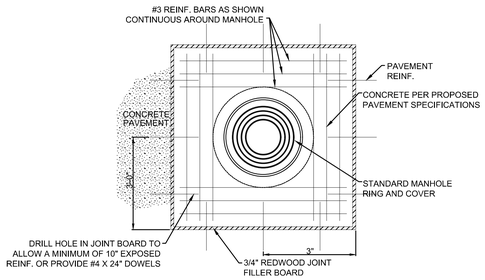

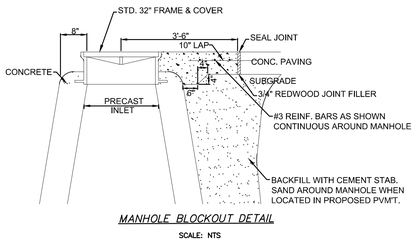

MANHOLE BLOCKOUT DETAIL
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STATE OF TEXAS
MICHAEL F.A. MAZZOLA
117109
LICENSED PROFESSIONAL ENGINEER
6/25/2026

KEYPLAN

Project Number: 24.23
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	60% CD / ASI	04/30/2026

Sheet Title:
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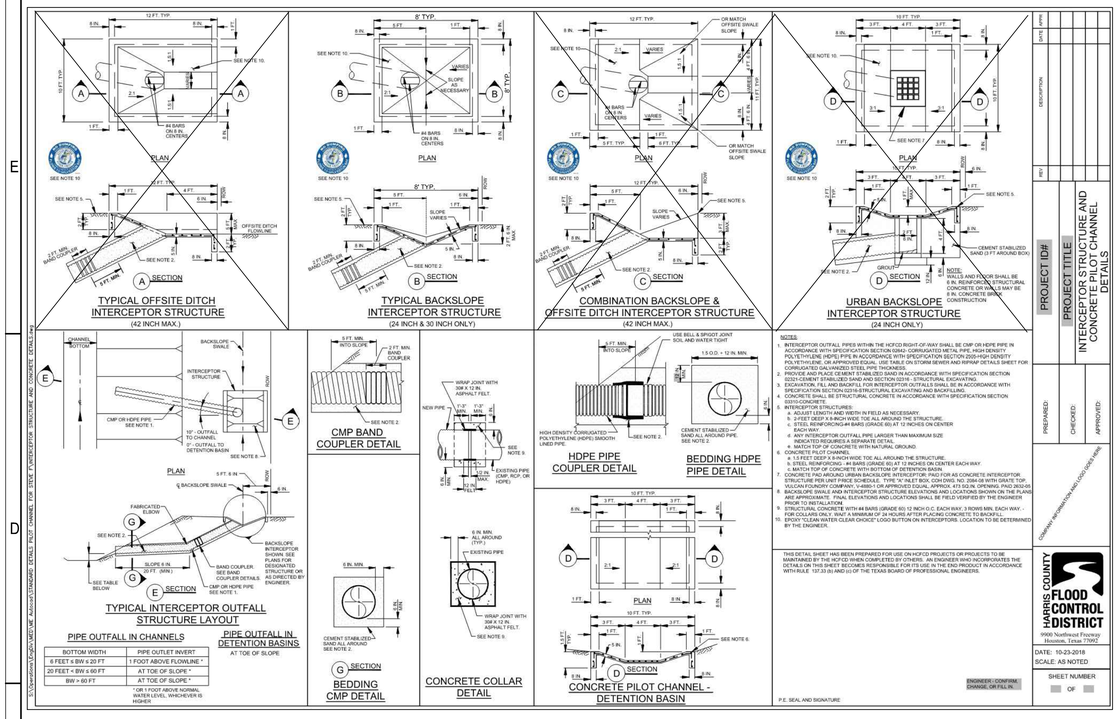

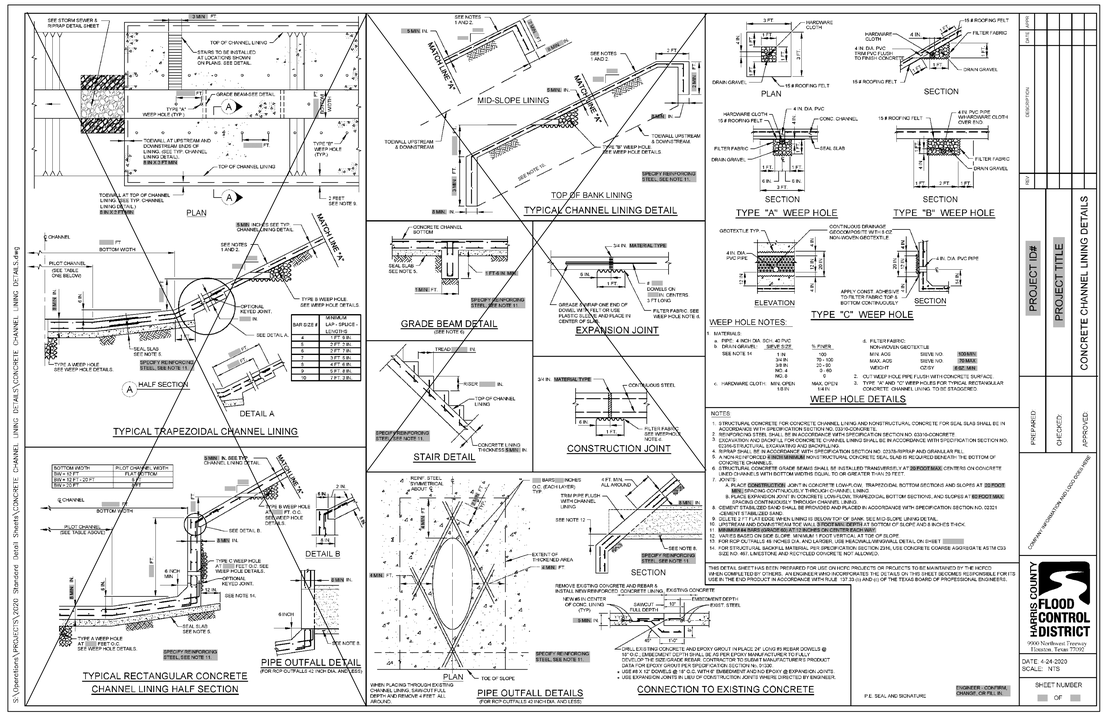

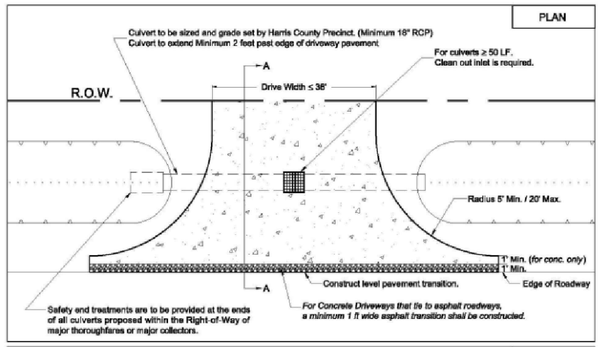

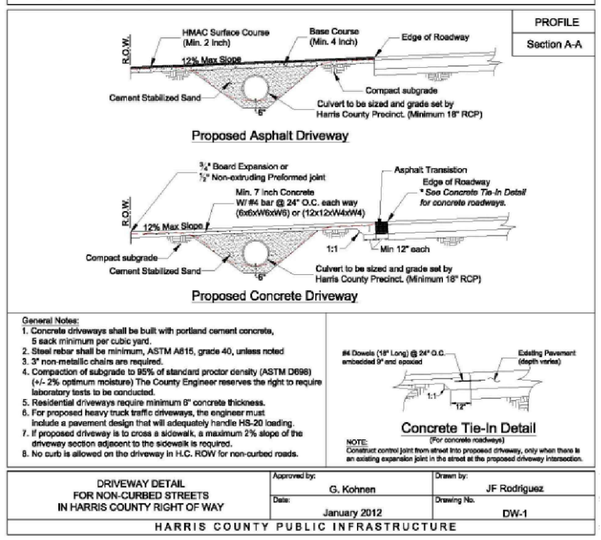

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1. THIS PROJECT REQUIRES THE ALTERATION OF AN EXISTING IRRIGATION SYSTEM. THE SYSTEM SHALL BE OBSERVED IN REASONABLE WORKING CONDITION AND IS TO BE MAINTAINED IN PLACE FOR USE WITH NEW EQUIPMENT AS DESCRIBED IN THESE DOCUMENTS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE EXISTING SYSTEM BEFORE BEGINNING WORK ON THE INSTALLATION OF THIS ADDITION. COORDINATE WITH THE SYSTEM DESIGNER, WADE RADLET AT 210-788-7015, THE IRRIGATION CONTRACTOR SHALL INVESTIGATE THE EXISTING SYSTEM AND COORDINATE WITH THE DESIGNER AND THE LANDSCAPE ARCHITECT.

2. THE IRRIGATION CONTRACTOR SHALL CONDUCT STATIC PRESSURE MEASUREMENTS ON THE EXISTING IRRIGATION SYSTEM. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WITHOUT VERIFYING ACTUAL ON-SITE WATER PRESSURE FROM THE SOURCE .IF STATIC WATER PRESSURE IS LESS THAN 60P.S.I. DO NOT PROCEED UNTIL CONSULTING WITH SYSTEM DESIGNER AND LANDSCAPE ARCHITECT. IF ACTUAL SITE STATIC PRESSURE EXCEEDS DESIGN PRESSURE BY 15 P.S.I. IN ANY ZONE, A PRESSURE REDUCING VALVE SHALL BE INSTALLED.

3. THE IRRIGATION CONTRACTOR SHALL VERIFY THE EXISTING IRRIGATION BACKFLOW DEVICE IS IN WORKING CONDITION. CONTRACTOR SHALL VERIFY LOCATION WITH LANDSCAPE ARCHITECT AND CONDUCT TEST TO CONFIRM PROPER FUNCTION. TEST TO CONDUCTED BY CERTIFIED BACKFLOW INSPECTOR AND A BACKFLOW INSPECTION CERTIFICATE TO BE SUPPLIED AS PART OF CLOSEOUT DOCUMENTS. IF THE EXISTING BACKFLOW IS NOT INSTALLED PER STATE AND LOCAL CODES, REPLACE THE DEVICE WITH A NEW BACKFLOW AS REQUIRED TO MEET THESE CODES.

4. THE ABOVE DRAWING IS PROVIDED AS A REFERENCE FOR THE IRRIGATION CONTRACTOR. IT IN NO WAY IS AN ASSURANCE OF THE LOCATION OF ANY PART OF THE EXISTING SYSTEM. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING EQUIPMENT CONDITION AND LOCATIONS ONCE THE CONTRACT HAS BEEN AWARDED. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

5. IT IS THE IRRIGATION CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR DURING THE SITE DEMOLITION PROCESS IN ORDER TO MAINTAIN IN PLACE THE MAINLINE, VALVES AND WIRES TO BE REUSED IN THE FINAL DESIGN. MAINLINE AND LATERAL PIPING WILL HAVE TO BE PROTECTED AND REUSED TO INSURE PROPER FUNCTION OF THE SYSTEM.

6. IRRIGATION CONTRACTOR SHALL EITHER REPROGRAM THE EXISTING CONTROLLER OR ADD A NEW CONTROLLER AS SPECIFIED IN THESE DOCUMENTS TO MEET THE NUMBER OF ZONES REQUIRED FOR THE SYSTEM. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO VERIFY LOCATION AND CAPACITY OF EXISTING CONTROLLER PRIOR TO INSTALLING THE NEW IRRIGATION SYSTEM COMPONENTS.

7. THE IRRIGATION CONTRACTOR SHALL VERIFY IN THE FIELD THE EXTENT OF THE EXISTING SYSTEM. ON EXISTING ZONES TO BE REUSED, ADD HEADS AS REQUIRED TO INSURE ADEQUATE HEAD TO HEAD COVERAGE. THE CONTRACTOR WILL REPLACE EXISTING HEADS WITH NEW HEADS WHEN NEEDED TO INSURE PROPER FUNCTION OF THE SYSTEM. THE IRRIGATION CONTRACTOR SHALL IDENTIFY ANY EQUIPMENT THAT HAS BEEN DAMAGED OR ABANDONED AS A RESULT OF NEW CONSTRUCTION AND REMOVE OR REPAIR ALL ZONES AFFECTED BY CONSTRUCTION DISTURBANCE.

8. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL HEADS AND NOZZLES ONCE THE SYSTEM IS INSTALLED TO INSURE HEAD TO HEAD COVERAGE AND TO INSURE THAT NO OVER SPRAY OCCURS ONTO WALKS AND PARKING AREAS. THESE FINAL ADJUSTMENTS ARE TO BE COMPLETE PRIOR TO FINAL INSPECTION AND ARE A CONDITION OF ACCEPTANCE AS COMPLETE.

9. THE IRRIGATION SYSTEM WILL REQUIRE THE USE OF THE EXISTING HEADS. THE IRRIGATION CONTRACTOR SHALL ADD HEADS AND NOZZLES OR ADJUST HEAD LOCATIONS TO INSURE THAT EACH ZONE HAS PROPER COVERAGE AND HEAD TO HEAD COVERAGE WITHOUT OVER SPRAY ONTO HARDSCAPE OR PARKING AREAS.

10. A WEATHER SENSOR COULD NOT BE LOCATED DURING FIELD INSPECTION. INSTALL A NEW WEATHER SENSOR WITH RAIN/FREEZE DETECTION.

5 EXISTING SYSTEM CONSTRUCTION NOTES

PRESSURE REQUIREMENT CALCULATIONS @ ZONE No. 01	
DESIGN STATISTICS FOR CALCULATIONS	
Total Zone Flow:	59.0 g.p.m.
Electric Valve Size:	2"
Static Pressure (Pump Output @ 70 psi):	70.0 p.s.i.
ACCUMULATIVE LOSSES FROM CITY MAIN TO FURTHEST HEAD	
Sprinkler head requirement:	40 p.s.i.
Zone Pipe/Fitting Loss:	3.08 p.s.i.
2" Electric Valve Loss:	1.7 p.s.i.
Elevation Net Loss (+- FT.):	n/a
System Mainline Loss (3" Sch-40 Mainline):	5.11 p.s.i.
Backflow Preventer Loss (Pump Supplied):	n/a
Irrigation Sub-Meter Loss (2"):	1.0 p.s.i.
Master Electric Valve Loss:	n/a
Type K Copper Service Loss:	
Total Net Loss:	10.88 p.s.i.
Design Pressure:	50.88 p.s.i.

Notes: System requires a minimum of 51 psi pressure (at pump outlet) for system to operate properly. Irrigation Contractor shall conduct on site pressure test to verify site pressure prior to starting work. Contractor shall notify Owner's Representative of pressure deficiencies or any other on site problems that may alter the effectiveness of the system. Pipe has been size to insure that velocity does not exceed 5 FPS. do not change pipe size in the field without consulting system designer.

4 CRITICAL LOSS CHART

TYPICAL WEEKLY SCHEDULE BASED ON PRECIPITATION RATE

Precipitation Rate (in/hr)		Water Desired (in/wk)	Time/Cycle (min)	No. of Zones	Total Time * Min.	Hrs.
Turf Rotor Zone	.64	.80	75.0	12	900	15.0
MP Rotator Spray	.44	.80	107.0	14	1498	25.0
Turf Drip Zones	.85	.80	60.0	2	120	2.0
Drip Zones	.55	.80	88.0	5	440	7.4
Tree RZWS	2.67	.80	18.0	6	108	1.8
Total System Hours of Operation Per Week						51.2

* IT WILL BE NECESSARY TO WATER MULTIPLE ZONES AT ONE TIME TO MEET WATERING WINDOW . A TYPICAL SCHEDULE WOULD ALLOW WATERING TO OCCUR TWO TIMES PER WEEK. TOTAL WATERING TIME WOULD BE DIVIDED BY THE NUMBER OF WATERING DAYS. THIS SCHEDULE IS DESIGNED FOR SUMMER WATER USAGE AND ESTABLISHMENT OF NEW PLANTING.

3 VALVE SCHEDULE

1. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE SPECIFICATIONS AND ALL SUBMITTAL REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE FOR SITE INSPECTIONS AS SPECIFIED IN THE SPECIFICATIONS. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE DOES NOT RELIEVE THE CONTRACTOR FROM INSPECTION APPROVAL AND WILL REQUIRE THE CONTRACTOR TO UNCOVER WORK AS REQUIRED FOR APPROVAL AT THE COST OF THE CONTRACTOR. IRRIGATION CONTRACTOR IS TO INFORM OWNER'S REPRESENTATIVE OF THE START DATE OF WORK.

2. THE IRRIGATION CONTRACTOR IS REQUIRED BY LAW TO NOTIFY TEXAS ONE CALL (800-245-4545) 72 HOURS PRIOR TO ANY EXCAVATION. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. IRRIGATION CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES WHETHER OR NOT TEXAS ONE CALL IS NOTIFIED.

3. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WITHOUT VERIFYING ACTUAL ON-SITE WATER PRESSURE FROM THE SOURCE. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

4. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS AS REQUIRED TO ACCOMPLISH IRRIGATION INSTALLATION.

5. DUE TO SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS SLEEVES, ETC., WHICH MAY BE REQUIRED. IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS AND WITHIN PROPERTY LINES.

6. DURING INSTALLATION IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPING WITH THE LANDSCAPE SUBCONTRACTOR TO AVOID CONFLICT WITH PROPOSED PLANTING. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION SUBCONTRACTOR TO MOVE PIPING TO ALLOW PROPER PLACEMENT OF PLANT MATERIAL. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.

7. NO MACHINE TRENCHING IS TO BE DONE WITHIN THE DRIPLINE OF EXISTING TREES. TRENCHING IS TO BE DONE BY HAND, AIR-SPADE OR BY TUNNELING UNDER ROOT SYSTEM BY METHOD APPROVED BY LANDSCAPE ARCHITECT. PIPING LAYOUT IS DIAGRAMMATIC AND PIPING SHALL BE ROUTED AROUND EXISTING TREES AS POSSIBLE TO AVOID DAMAGE TO THE ROOT SYSTEMS. DO NOT CUT ANY ROOT OVER 3/4" DIAMETER UNLESS APPROVAL FROM THE LANDSCAPE ARCHITECT IS FIRST OBTAINED. ANY CUTS MADE SHALL BE CLEAN AND WITHOUT FRAYED ENDS.

8. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVES AND CHASES WHEREVER PIPING OR CONDUIT PASSES, UNDER ALL PAVING, THROUGH WALLS, ETC. ALL SLEEVE LOCATIONS MAY NOT BE SHOWN ON PLAN, COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS, GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS AS REQUIRED. ALL SLEEVE AND CHASE LOCATIONS ARE NOT NOTED ON PLAN. ALL SLEEVES 4" OR LESS SHALL BE SCH-40 PVC, ALL SLEEVES 6" OR GREATER SHALL BE CLASS-200 PVC. ALL SLEEVES TO BE SIZED TWICE THE DIAMETER OF PIPE OR COMBINATION OF PIPES ENCLOSED WITHIN THE SLEEVE.

9. CONFIRM STATIC WATER PRESSURE AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS LESS THAN STATED IN PRESSURE CALCULATIONS DO NOT PROCEED UNTIL DIRECTED SO BY THE LANDSCAPE ARCHITECT. IF ACTUAL SITE STATIC PRESSURE EXCEEDS DESIGN PRESSURE BY 15 P.S.I. IN ANY ZONE, A PRESSURE REDUCING VALVE SHALL BE INSTALLED. REFER TO DETAILS FOR MODEL.

10. ADJUSTABLE FLOW CONTROLS SHALL BE REQUIRED ON CIRCUIT REMOTE CONTROL VALVE. PRESSURE AT ANY POINT WITHIN A ZONE SHALL NOT VARY BY MORE THAN 10% FROM THE DESIGN SPRINKLER OPERATING PRESSURE. SEE SPECIFICATIONS FOR TESTING.

11. THE CONTRACTOR SHALL BE A REGISTERED LICENSED IRRIGATOR IN THE STATE OF TEXAS. CONTRACTOR MUST CONFORM TO ALL CODES AS STATED IN SECTION 344 OF THE TEXAS WATER CODE AS OUTLINED BY TCEQ.

12. OBTAIN COVERAGE TEST APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO PLANTING, SODDING OR SEEDING.

13. ALL UNDESIGNATED END LATERAL PIPING SHALL BE ½" IN SPRAY ZONES AND ¾" IN ROTOR ZONES.

14. SPRINKLER HEAD SPACING SHALL NOT EXCEED 50% OF SPRAY DIAMETER BASED ON MANUFACTURERS OPERATING SPECIFICATIONS. SPRINKLER HEAD SPACING SHALL BE DESIGNED FOR HEAD-TO-HEAD COVERAGE OR HEADS SHALL BE SPACED AS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUSTED FOR PREVAILING WINDS. THE SYSTEM SHALL BE DESIGNED SO THAT IRRIGATION IS NOT APPLIED TO VEHICULAR TRAFFIC LANES, OTHER PAVEMENT OR STRUCTURES.

15. ALL ROTORS SHALL BE LOCATED 12" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE, ALL SPRAY HEADS SHALL BE LOCATED 6" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE.

16. VALVE AND CIRCUITS SHALL BE SEPARATED BASED ON WATER USE, SO THAT TURF AREAS ARE WATERED SEPARATELY FROM SHRUB AND GROUND COVER AREAS. IRRIGATION HEADS IN THE TURF AREAS WILL BE VALVED SEPARATELY FROM SHRUB AND/OR GROUND COVER AREAS. IT IS RECOMMENDED THAT SEASONAL COLOR AREAS BE WATERED SEPARATELY. UNDER NO CIRCUMSTANCES ARE ZONE TYPES TO BE COMBINED I.E. ROTARY HEADS WITH SPRAYS, TURF AREAS WITH PLANTING BEDS.

17. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM STATIC PRESSURE ON SITE PRIOR TO STARTING WORK. REFER TO NOTES #9 AND #10.

18. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO SECURE ALL REQUIRED PERMITS AND PAY ALL ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES CONTAINED IN THESE DOCUMENTS.

19. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY. INSTALL PIPES IN ADJACENT SLEEVES WITHIN LANDSCAPE AREAS.

20. 120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER WITH A HARDWIRE CONNECTION APPROVED AND INSTALLED BY A LICENSED ELECTRICIAN.

21. SPRINKLER HEADS SHALL HAVE MATCHED PRECIPITATION RATES WITHIN EACH CONTROL VALVE CIRCUIT.

22. SERVICEABLE CHECK VALVES SHALL BE REQUIRED ADJACENT TO PAVED AREAS WHERE ELEVATION DIFFERENCES MAY CAUSE LOW HEAD DRAINAGE.

23. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING. CONTROLLERS SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN SENSOR SHUT-OFF DEVICE.

24. ALL IRRIGATION WIRES SHALL BE UL LISTED FOR DIRECT UNDERGROUND BURIAL AND SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. 3M-DBY WATERPROOF CONNECTORS TO BE USED ON ALL WIRE CONNECTIONS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT.

25. ALL IRRIGATION HEADS SHALL BE ADJUSTED TO MINIMIZE OVER-SPRAY ONTO ALL IMPERVIOUS SURFACES.

26. ALL PIPE CONNECTIONS SHALL BE PRIMED WITH AN APPROVED COLOR PRIMER BEFORE BEING CHEMICAL WELDED.

27. AFTER AWARD OF CONTRACT AND BEFORE ANY IRRIGATION SYSTEM MATERIALS ARE ORDERED FROM SUPPLIERS OR DELIVERED TO THE JOB SITE, SUBMIT TO THE OWNER A COMPLETE LIST OF ALL IRRIGATION SYSTEM MATERIALS, OR PROCESSES PROPOSED TO BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT. THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN ACCEPTANCE. MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES SHALL ONLY SUPPLEMENT THE GUARANTEE.

29. ALL TEMPORARY IRRIGATION SHALL BE DESIGNED PRIOR TO INSTALLATION BY A STATE OF TEXAS LICENSED IRRIGATOR. THE DESIGN IS TO BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCING INSTALLATION OF THE TEMPORARY SYSTEM.

30. IRRIGATION CLOSEOUT DOCUMENTS SHALL INCLUDE A WATER BUDGET. A LAMINATED COPY OF THE WATER BUDGET SHALL BE PERMANENTLY INSTALLED INSIDE THE IRRIGATION CONTROLLER DOOR.

A. CHART CONTAINING ZONE NUMBER, PRECIPITATION RATE AND GPM.
B. LOCATION OF EMERGENCY IRRIGATION SYSTEM SHUT-OFF VALVE.

2 CONSTRUCTION NOTES

EXISTING IRRIGATION EQUIPMENT (REF. CITY PLACE PHASE I IRRIGATION PLANS)

- W — EXISTING DEDICATED IRRIGATION WATER METER - 2", BY CIVIL ENGINEER
- BF — EXISTING REDUCED PRESSURE BACKFLOW DEVICE - 2.5" WATTS, MODEL LF009 PER LOCAL CODES
- R — EXISTING IRRIGATION BOOSTER PUMP, REF. PHASE 1 PLANS
- FS — EXISTING FLOW SENSOR - DATA INDUSTRIAL, MODEL IR220-P, 2" INSERTION TEE
- C — EXISTING CONTROLLER - HUNTER ACC2 DECODER, REF. PHASE 1 PLANS FOR LOCATION
- W — EXISTING WEATHER SENSOR - HUNTER SOLAR-SYNC, REF. PHASE 1 PLANS FOR LOCATION

NEW IRRIGATION EQUIPMENT

- M — IRRIGATION SUB-METER - 2" BADGER, MODEL RECORDALL M170, REF. DETAIL 11/L-3.1
- C — IRRIGATION CONTROLLER REMOTE - HUNTER ROAM-LR-KIT, CONTRACTOR TO PROVIDE TO OWNER AT PROJECT CLOSEOUT
- SHUT OFF VALVE - SCH 80 BALL VALVE, SIZE PER LINE
- REMOTE CONTROL VALVE - HUNTER ICV, SIZE AS INDICATED
- DRIP CONTROL ZONE KIT - NETAFIM, REFERENCE DETAILS
- MP ROTATOR NOZZLE 90°-210°; SIZE AS SPECIFIED ON PLAN.
- MP ROTATOR NOZZLE 210°-270°; SIZE AS SPECIFIED ON PLAN.
- MP ROTATOR NOZZLE 360°; SIZE AS SPECIFIED ON PLAN.
- MP ROTATOR STRIP NOZZLE; PATTERN AS SPECIFIED ON PLAN.
- MP ROTATOR; M35=M3500, M3=MP3000, M2=MP2000, M1=MP1000, M8=M800SR, MC=MP CORNER, MR=RIGHT CORNER STRIP, ML=LEFT CORNER STRIP, MS=SIDE STRIP

NOTE: ALL MP ROTATOR SPRAY HEADS ARE TO BE HUNTER PROS-06-PRS40-CV SPRAY BODY; PROVIDE CHECK VALVE AT LOW HEADS

- ROTOR HEAD - HUNTER I-25, NOZZLE PER PLAN
- RZWS — ROOT ZONE WATERING ASSEMBLY - SINGLE HUNTER RZWS
- 2-RZWS — ROOT ZONE WATERING ASSEMBLY - DOUBLE HUNTER RZWS
- # — ZONE IDENTIFICATION
- # / ## — ZONE SIZE IN GALLONS PER MINUTE / ZONE VALVE SIZE
- # — ZONE IDENTIFICATION
- # / ## — ZONE SIZE IN GALLONS PER MINUTE
- HATCH PATTERN INDICATES BED/TURF AREAS TO BE INCLUDED THIS ZONE
- ZONE VALVE SIZE, REFERENCE DETAILS
- DRIPLINE; NETAFIM TLHCVXR7-18 FOR SURFACE PLANTING BEDS, ROWS SPACED AT 18 INCHES; NETAFIM TLHCVXR7-12 FOR SURFACE PLANTING BEDS WITH SLOPES GREATER THAN 3:1; NETAFIM TLHCVXR5-12 FOR SUBSURFACE TURF, ROWS SPACED AT 12 INCHES
- DRIP SUPPLY LINE, SCH 40 PVC, SIZE PER PLAN.
- MAIN LINE - PVC PIPE, SCH-40, SIZE AS INDICATED ON PLANS
- 1-1/2" — LATERAL LINE - PVC PIPE, CLASS 200 SDR 21, SIZE AS INDICATED ON PLANS . DO NOT DEVIATE ON SIZING WITHOUT CONSULTING WITH PROJECT DESIGNER.
- SLEEVE - PVC PIPE, SCH-40, USE TWO (2) SIZES LARGER THAN SPRINKLER PIPE WITHIN, VALVE WIRING MAY BE RUN IN THE SAME SLEEVES

GENERAL NOTE: REFER TO SHEET L-3.1 to L-3.3 FOR DETAILS

FIELD LOCATE BY STAKING, THE CONTROLLER, WATER METER, BACKFLOW DEVICE, MASTER VALVE AND FLOW SENSOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

1 LEGEND

STATEMENT OF IRRIGATION DESIGN STANDARDS CONFORMITY:
This plan is complete and conforms to the design and installation parameters of the irrigation design and equipment standards set out by the City of Spring, Texas and TCEQ (Texas Commission on Environmental Quality)

Wade O. Radlet TX LI # 22397

SPECIAL NOTES:
1. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES AND WILL SECURE ALL REQUIRED PERMITS.
2. ALL WIRES, CONTROL VALVES, AND PRESSURIZED WATER SUPPLY LINES SHALL NOT BE LOCATED WITHIN THE EXISTING ROW OR OUTSIDE PROPERTY BOUNDARIES.

"Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TCEQ), MC-178, PO Box 13087, Austin, Texas 78711-3087 TCEQ's website is: www.tceq.state.tx.us"

811.

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HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 & 21900 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

LICENSED LANDSCAPE ARCHITECT
WADE O. RADLET
22397
06.29.26

TRUE PLAN
KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: AH
Checked: WR

Revisions:

No.	Description	Date

Sheet Title:
IRRIGATION NOTES AND LEGEND
PHASE II

L-1.1

PROVIDE TEMPORARY IRRIGATION FOR ALL SEED AREAS. REF. DETAILS 9-10/L-3.1

PROP 8" SAN
FL=119.38

PROP 8" WL
FL=127.56

MATCHLINE: REF. L-1.3

30 0 30 60

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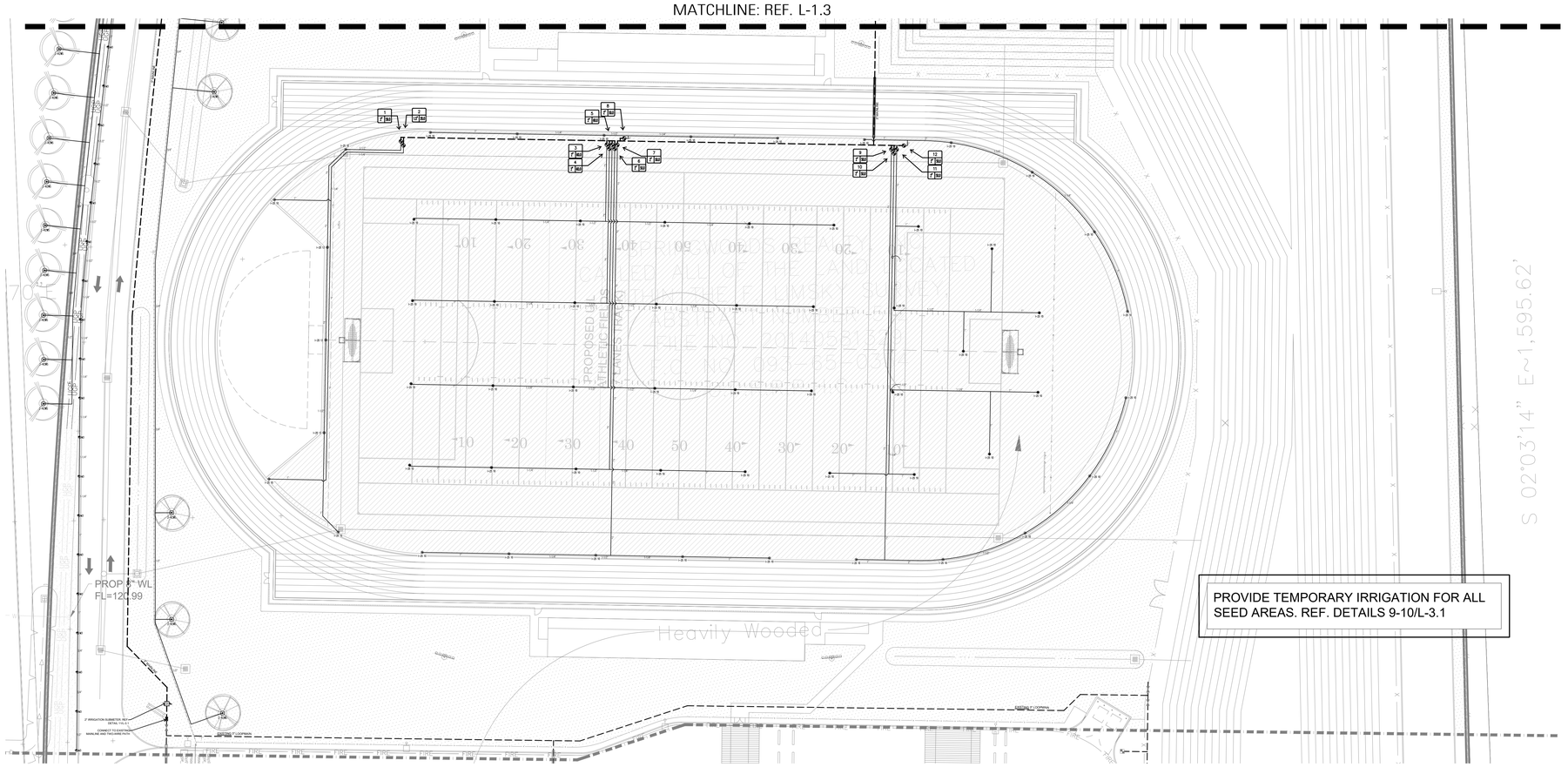
IRRIGATION PLAN

PHASE II

L-1.2

MATCHLINE: REF. L-1.3



PROVIDE TEMPORARY IRRIGATION FOR ALL SEED AREAS. REF. DETAILS 9-10/L-3.1

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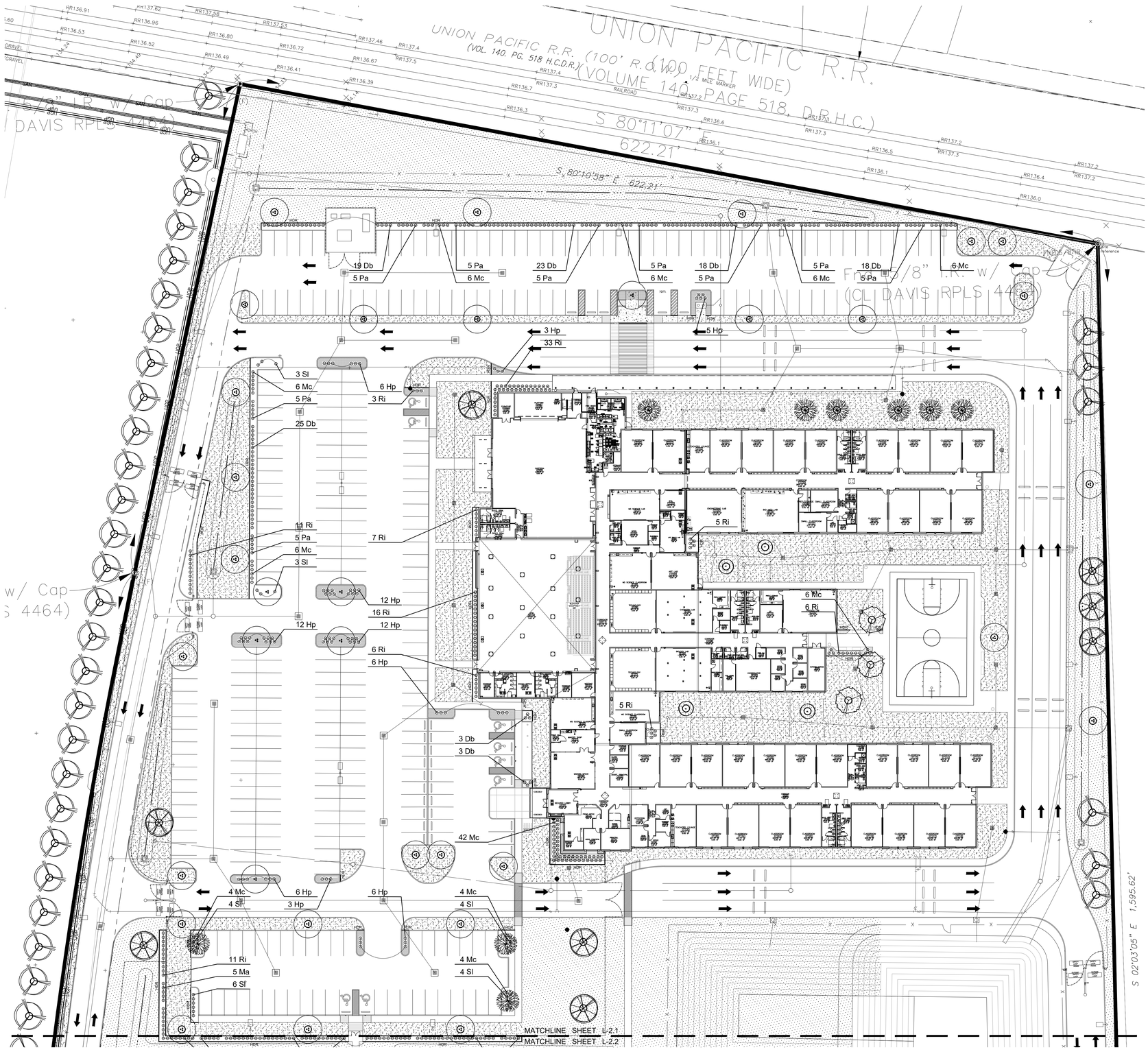
Sheet Title:
IRRIGATION PLAN
PHASE II

L-1.3



NOTE

1. See Sht. L-2.2 for Legend, Notes, and Calculations.

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ALEX M. DOMINGUEZ 2668 LICENSED LANDSCAPE ARCHITECT STATE OF TEXAS

06/29/26

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TRUE PLAN NORTH — KEYPLAN

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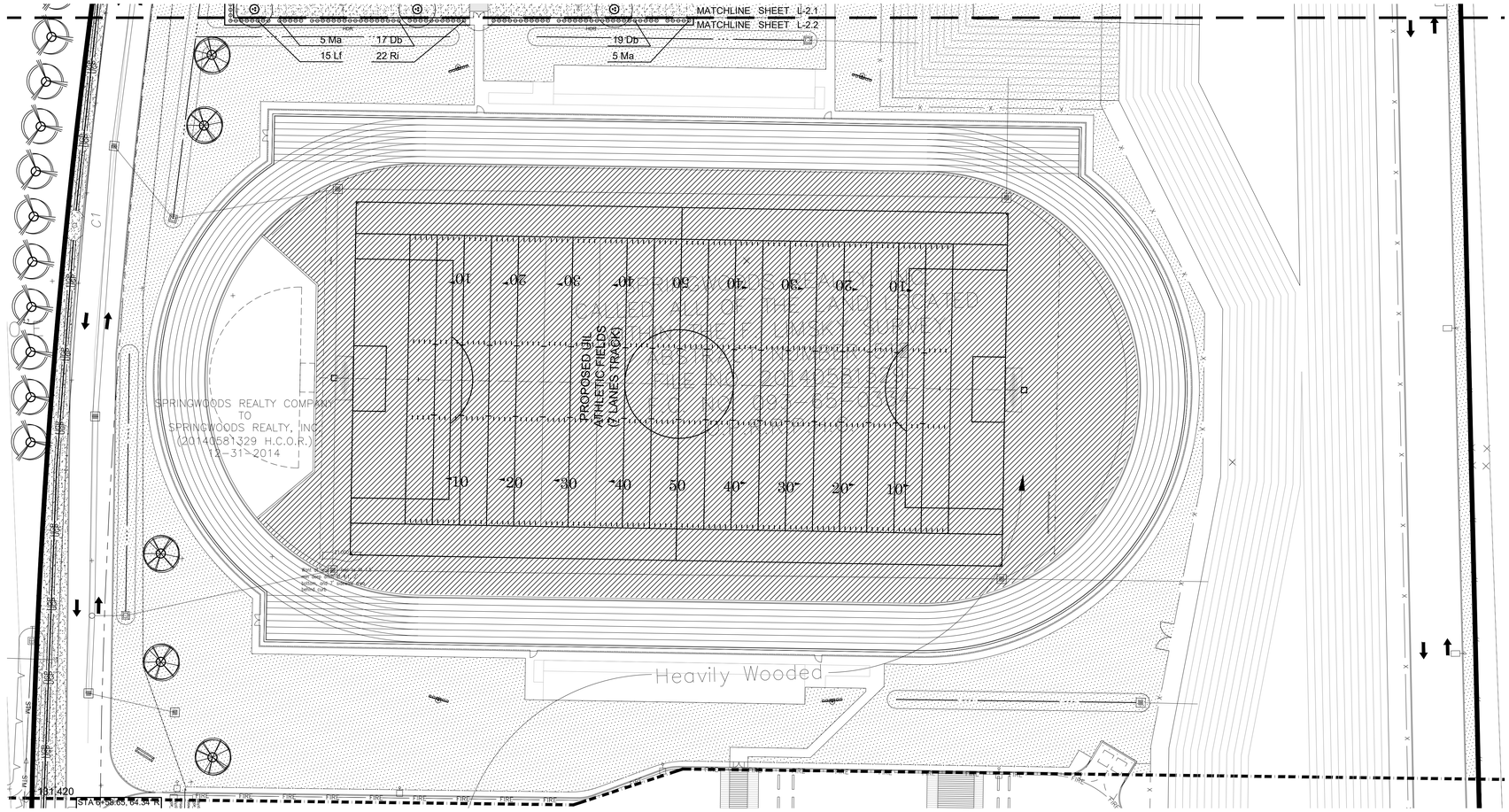
Sheet Title:

PLANTING PLAN

L-2.1



PLANT LEGEND

SYM./ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE
Trees			
Cc	Cercis canadensis	Eastern Redbud	2 1/2" Cal./Multi.
Li	Lagerstroemia i. 'Red Rocket'	Crape Myrtle	2 1/2" Cal./Multi.
Pt	Pinus taeda	Loblolly Pine	4" Cal./Single
Qs	Quercus shumardii	Shumard Oak	4" Cal./Single
Qv	Quercus virginiana	Live Oak	4" Cal./Single
Uc	Ulmus crassifolia	Cedar Elm	4" Cal./Single
Shrubs/Other			
Db	Dietes bicolor	Yellow African Iris	5 gal.
Hp	Hesperaloe parviflora	Red Yucca	5 gal.
Lf	Leucophyllum frutescens	Texas Sage	5 gal.
Mc	Muhlenbergia capillaris	Gulf Muhly	5 gal.
Ma	Malvaviscus a. 'Drummondii'	Turk's Cap	5 gal.
Pa	Plumbago auriculata	Plumbago	5 gal.
Ri	Rhaphiolepis i. 'Clara'	Clara Hawthorne	5 gal.
Sl	Salvia leucantha	Mexican Bush Sage	5 gal.

Groundcovers

- Sod: Solid Celebration Bermuda, See Specs
- Sod: Solid Tif 419 Bermuda, See Specs
- Hydroseed: See Specifications
- Stabilized Decomposed Granite (D.G.): See (6/L-3.4)
- HDR — Edging: See (7/L-3.4)
- Boulders: See (6/L-3.4)
- Limit of Work Line: Phase II

GENERAL NOTES

1. Contractor shall guarantee all trees/plant material for one year from date of final acceptance.
2. Contractor shall familiarize themselves with the site conditions.
3. Contractor shall spray all landscape areas with an approved herbicide. After minimum one week, dead vegetation shall be tilled. Excess vegetation shall be removed prior to commencing planting operations.
4. Excavate and remove base material from parking lot islands. Fill with topsoil to within subgrade limits for mulch.
5. All planting areas to receive pre-emergent herbicide Ronstar G or equal.
6. Prepare, amend, and fertilize existing soil. Pre-mix amendments into soil before backfilling plant pits - do not mix inside pits. Break large clods into small pieces. Amend plant pits per detail (1/L-3.4) or (2/L-3.4).
7. For sod/hydroseed areas, scarify subgrade minimum 3" deep. Place and till in 1" of organic amendment and Milorganite fertilizer at 72 lbs./2,500 SF to a depth of 3". All areas shall be uniformly graded for positive drainage. All rocks and clods shall be removed. The soil surface for sod areas shall be rolled to resist impressions over 1/4" deep. Finish grade all sod areas 2" below adjacent curbs/pavements. Solid sod pieces shall be uniformly sized, and tightly laid in rows with staggered ends and no overlap. Trimming shall be performed with sharp tools, and carefully fitted around structures. Provide permanent in-ground irrigation system for sod areas, and water top 6"-8" immediately for optimum moisture content.
8. Hydroseed: See Specs. Provide temporary above ground irrigation system, and maintain optimum moisture for seed germination, and water until fully established.
9. Sod patch existing grass damaged by demolition/construction.
10. Install edging per Mfrs. recommendations.
11. Landscape Architect to approve edging layout BEFORE plant layout commences.
12. Landscape Architect to approve plant material BEFORE plant layout commences.
13. Landscape Architect to approve layout of all plants BEFORE planting commences.
14. Plant shrubs and groundcover per detail (1/L-3.4) or (2/L-3.4). Rootball shall be 1" above finish grade. Distance of plantings from adjacent walks, curbs, walls etc. shall be equal to the plant spacing, min.
15. Plant trees per detail (4/L-3.4) or (5/L-3.4).
16. Install minimum 2" layer of brown shredded hardwood mulch to all landscape areas, planted or not, unless shown to receive Sod, Hydroseed, or Decomposed Granite. Mulch shall be ½" below pavements/edging. Leave no bare dirt within property line. At trees, taper off mulch toward the tree ensuring no mulch or soil covers the root flare.

HARRIS CO. LANDSCAPE DESIGN AND COMPLIANCE REVIEW SHEET

1. TREE AND SHRUB PLANTING REQUIREMENTS

A. STREET TREES: Sec. 13.09

Street Name	Lineal Feet	Tree Planting Requirement	Total Trees Planted
Springwoods Village Pkwy.	1,120' / 30	37 Trees	37 trees 25' o.c.

B. PARKING LOT TREES: Sec. 13.09

Total Number of Proposed Parking Spaces	# of Spaces	Tree Planting Requirement	Total Trees Planted
320	320 / 10	32	32

C. SHRUBS: Sec. 13.09

Street Tree Planting Requirement	Shrub Requirement	Total Shrubs Requirement	Total Shrubs Planted
37 Trees	37 X 10	370	553

Note: 422 perimeter shrubs planted around street parking lot = 76% (min 75%)

2. TREE PROTECTION REQUIREMENTS

Sec. 13.11 Preservation of Existing Trees

Street Name / Location	Inches Protected	Inches Required
N.A.	N.A.	N.A.

NOTES:
1. Specimen trees smaller than 12" caliper located in the right-of-way that are in the way of new improvements shall be transplanted within the County's right-of-way as directed by the County Engineer or the appropriate Precinct designee. The contractor is responsible for all costs associated with tree removal and transplant procedures, including providing irrigation to the transplanted location. Existing trees in the County's right-of-way that remain shall be protected with 4' high orange safety fencing, and or board cladding per County requirements.
2. New trees planted in the Right-of-Way shall be approved by the County Commissioner's designee. Restrictive covenants shall be established for the Owner to provide for the maintenance of all trees planted in the Right-of-Way including watering and any necessary pruning, with no County involvement.

I, Alexis Dominguez, a professional Landscape Architect, do hereby certify that these plans satisfy the requirements of the Harris County Regulations, Section 13.

Date: 06.29.26 Signature:

30 0 30 60

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REGISTERED LANDSCAPE ARCHITECT ALEXIS M. DOMINGUEZ 2668 STATE OF TEXAS

06/29/26

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TEXAS 77379

TRUE PLAN KEYPLAN

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Revisions:

No.	Description	Date

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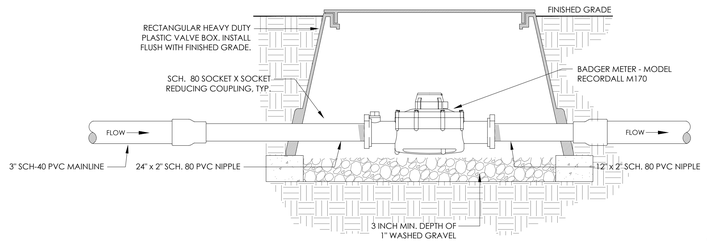
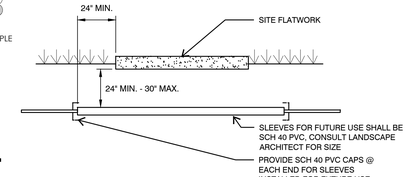
PLANTING PLAN

L-2.2



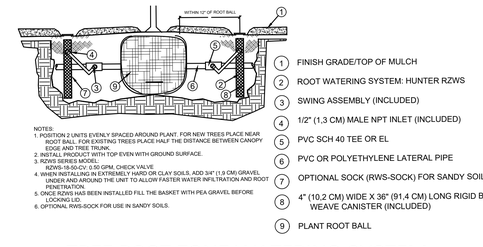
11 IRRIGATION SUB-METER



IRRIGATION SLEEVE NOTES:

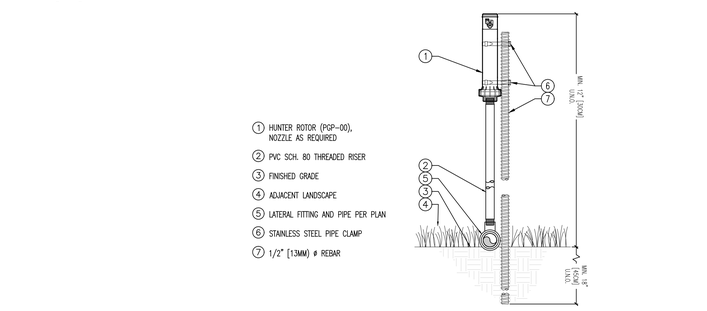
1. PIPING AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES UNDER PAVING. REFER TO IRRIGATION SLEEVE PLAN FOR SIZE AND LOCATION.
2. SLEEVE ELEVATION SHALL BE TWENTY-FOUR (24") INCHES BELOW TOP OF PAVEMENT.
3. SLEEVES SHALL EXTEND ONE (1') FOOT BEYOND THE EDGE OF PAVEMENT AND BE STAKED FOR LOCATION.
4. ALL SLEEVES 4" OR LESS, SHALL BE SCH-40 PVC, ALL SLEEVES GREATER THAN 4" SHALL BE CLASS-200 SDR-21. SLEEVES SHALL BE CAPPED ON BOTH ENDS AND SIZED A MIN. OF TWO (2) TIMES THE DIAMETER OF THE PIPE INSIDE THE SLEEVE.
5. SLEEVE LOCATIONS SHALL BE MARKED ONTO THE TOP OF CURB WITH A SAW-CUT OF TWO PARALLEL LINES THAT ARE TWO (2") INCHES LONG AND ONE (1") INCH APART ON BOTH SIDES OF THE STREET OR CROSSING.
6. THE CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SLEEVES SHALL ALSO BE RESPONSIBLE TO LOCATE ANY SLEEVE WHICH CANNOT BE FOUND DURING THE INSTALLATION OF THE IRRIGATION SYSTEM.

8 IRRIGATION SLEEVE



1. FINISH GRADE/TOP OF MULCH
2. ROOT WATERING SYSTEM: HUNTER RZWS
3. SWING ASSEMBLY (INCLUDED)
4. 1/2" (1,3 CM) MALE NPT INLET (INCLUDED)
5. PVC SCH 40 TEE OR EL
6. PVC OR POLYETHYLENE LATERAL PIPE
7. OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS
8. 4" (10,2 CM) WIDE X 36" (91,4 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
9. PLANT ROOT BALL

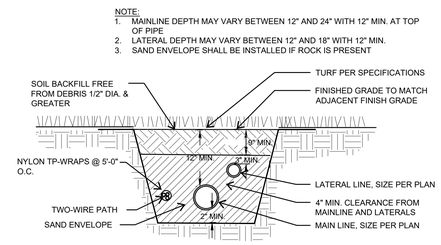
5 TREE ROOT ZONE WATERING SYSTEM



NOTE

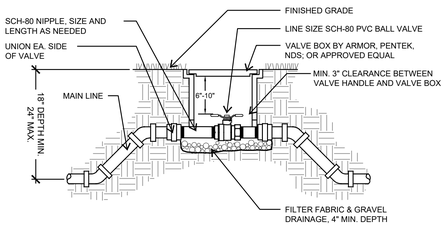
1. TEMPORARY IRRIGATION SYSTEMS MUST BE INSTALLED BY A LICENSED IRRIGATOR OR AN IRRIGATION TECHNICIAN UNDER THE SUPERVISION OF A LICENSED IRRIGATOR.
2. TEMPORARY IRRIGATION SYSTEMS MUST MEET THE BACKFLOW PREVENTION REQUIREMENTS IN SUBCHAPTER E OF THIS CHAPTER (RELATING TO BACKFLOW PREVENTION AND CROSS-CONNECTIONS).
3. TEMPORARY IRRIGATION SYSTEMS MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODES
4. TEMPORARY IRRIGATION SYSTEMS MUST HAVE ESTABLISHED A DEFINITE END DATE AT WHICH TIME THE TEMPORARY IRRIGATION SYSTEM MUST BE REMOVED.
5. ALL COVERAGE SHALL BE HEAD TO HEAD.
6. SYSTEM SHALL BE DESIGNED TO AVOID ANY OVERSPRAY ONTO SIDEWALKS AND STREETS.
7. TEMPORARY IRRIGATION SYSTEM ZONE VALVES SHALL BE HUNTER NODE CONTROLLER VALVES. CONTRACTOR SHALL CLUSTER VALVE LOCATIONS WHERE POSSIBLE TO COMBINE ZONES ON MULTIPLE VALVE CONTROLLERS (NODE-200, NODE-400, ETC...)
8. NO PIPING SHALL BE RUN WITHIN THE PROTECTION ZONE OF EXISTING TREES UNLESS APPROVED BY LANDSCAPE ARCHITECT.
9. CONTRACTOR SHALL VERIFY ON-SITE AND BY CONSULTING WITH LANDSCAPE ARCHITECT AREAS THAT WILL REQUIRE TEMPORARY IRRIGATION PRIOR TO DESIGN AND INSTALLATION OF SYSTEM
10. USE #4 X 24" REBAR ROD WITH "J" HOOKED RADIUS AT ONE END TO HOLD PIPE SECURELY IN PLACE. INSTALL AT INTERVALS OF 10 FEET.

10 TEMPORARY IRRIGATION ROTOR

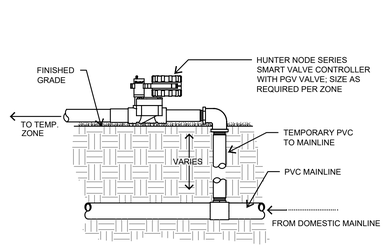


7 TRENCH PROFILE

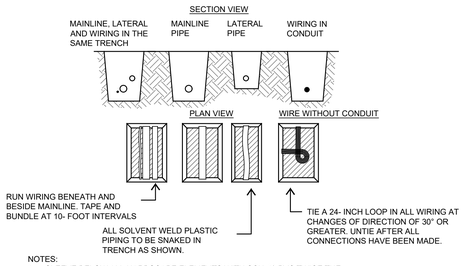
4 MP ROTATOR POP UP



2 MANUAL ISOLATION VALVE



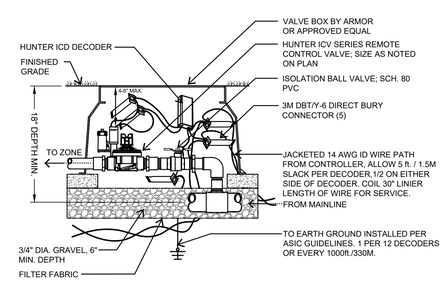
9 TEMPORARY IRRIGATION NODE



NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH-40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE TRENCH PROFILE DETAIL

6 IRRIGATION TRENCH



3 TURF ROTOR

1 ZONE VALVE

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STATE OF TEXAS
WADE O. RADLEY
22397
REGISTERED
06.29.26

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Checked: WR

Revisions:

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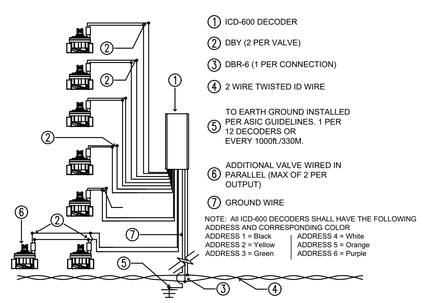
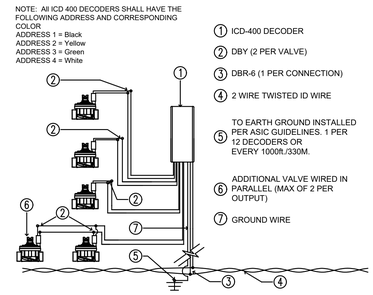
IRRIGATION DETAILS
PHASE II

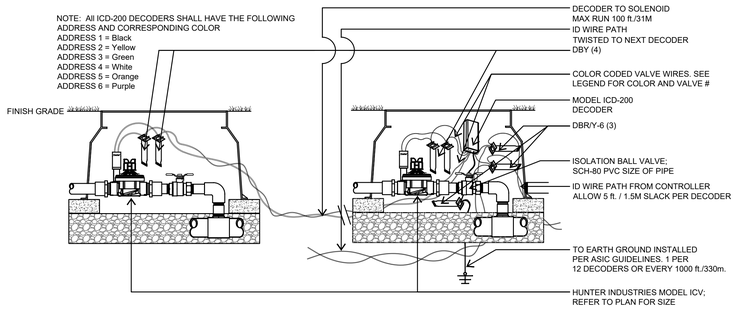
L-3.1



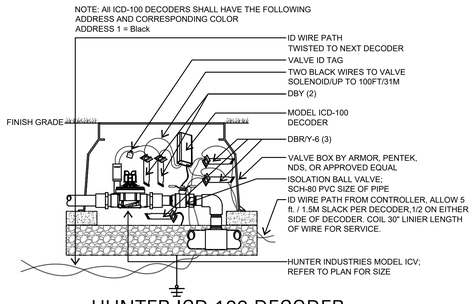
4 HUNTER ICD 600 DECODER



3 HUNTER ICD 400 DECODER



1 HUNTER ICD 200 DECODER



1 HUNTER ICD 100 DECODER

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LICENSED LANDSCAPE ARCHITECT
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IRRIGATION DETAILS
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L-3.2

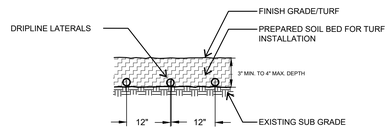
1.) DRIP LINE SHALL BE BURIED 3" TO 5" BELOW FINISHED SOIL GRADE IN PLANTING BEDS AFTER PLANTING AND BEFORE MULCH AND 4" TO 6" BELOW FINISHED GRADE IN TURF AREAS.
2.) STAGGER EMITTER SPACING IN PARALLEL ROWS TO CREATE TRIANGULAR WETTING PATTERN.
3.) ALL DRIP LINE SHALL BE SECURED USING SOIL STAPLES AS SUPPLIED BY THE MANUFACTURER SPACED A MAX. OF 3' ON CENTER.
4.) DRIP LATERALS SHOWN ON THE PLANS ARE USED TO INDICATE ZONING SIZES AND RELATIONSHIPS. INSTALLATION OF DRIP ZONES SHALL FOLLOW ONE OF THE TWO METHODS DESCRIBED IN DTLS. 2-3/L-3.3. AND NETAFIM'S RECOMMENDED INSTALLATION SPECIFICATIONS.
5.) NETAFIM HCVXR SERIES DRIP LINE SHALL BE USED AS FOLLOWS;
TURF AREAS; TLHCVXR5-12, ROWS SPACED AT 12 INCHES
BED AREAS; TLHCVXR7-18, ROWS SPACED AT 18 INCHES
BED AREAS WITH SLOPE 3:1 OR MORE; TLHCVXR7-12
6.) WHEN CONFLICTS OCCUR BETWEEN THESE DRAWINGS AND THE MANUFACTURER'S SPECIFICATIONS DEFER TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
7.) EACH DRIP ZONE SHALL HAVE A DRIP SYSTEM OPERATION INDICATOR, AS MANUFACTURED BY NETAFIM. INSTALL PER NETAFIM RECOMMENDATIONS.

PROPER SIZING OF SUPPLY AND EXHAUST HEADERS
(17MM HCVXR SERIES DRIPLINE)

TOTAL ZONE FLOW	PIPE SIZE
UP TO 5 GPM	1/2" SCH 40 PVC or 1/2" CLASS 315 PVC
5.1 TO 8 GPM	3/4" CLASS 200 PVC
8.1 TO 13 GPM	1" CLASS 200 PVC
13.1 TO 22 GPM	1-1/4" CLASS 200 PVC
22.1 TO 31 GPM	1-1/2" CLASS 200 PVC

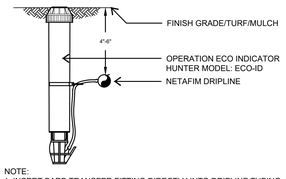
NOTE: A 45 PSI PRESSURE REGULATOR IS RECOMMENDED TO OBTAIN MAXIMUM RUN LENGTHS AND MAXIMIZE ZONE SIZE WHEN INSTALLING HCVXR SERIES DRIPLINE.

9 DRIP DESIGN NOTES



NOTE: PER NETAFIM MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL NOT EXCEED 12" SPACING BY MORE THAN 15%. SPACING WILL VARY DEPENDING ON WIDTH OF AREA BEING IRRIGATED.

8 TURF DRIP



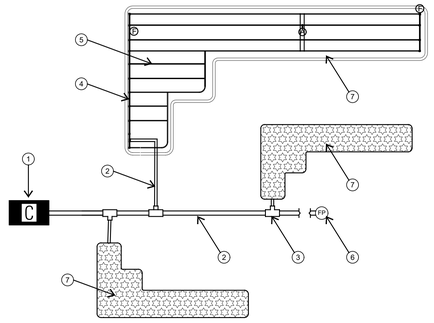
NOTE:
1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE: SET THE ARC TO ¼ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

7 OPERATION INDICATOR

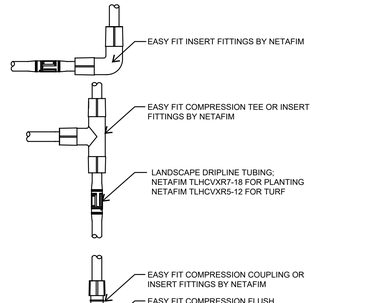
1. CONTROL ZONE KIT; NETAFIM
2. PVC SUPPLY LINE; SIZE PER CHART BELOW

TOTAL LENGTH OF DRIPLINE	MINIMUM PIPE SIZE
UP TO 300 FT	1/2" SCH 40 PVC or 1/2" CLASS 315 PVC
300 TO 550 FT	3/4" CLASS 200 PVC
550 TO 850 FT	1" CLASS 200 PVC
850 TO 1700 FT	1-1/4" CLASS 200 PVC
1700 TO 2400 FT	1-1/2" CLASS 200 PVC

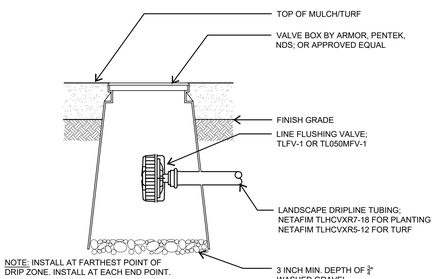
3. PVC SCH-40 TEE OR EL (TYPICAL)
4. SUPPLY HEADER; PVC SCH 40 WITH INSERT FITTINGS
5. LANDSCAPE DRIPLINE TUBING; NETAFIM TLHCVXR7-18 FOR PLANTING NETAFIM TLHCVXR5-12 FOR TURF
6. DRIPLINE FLUSH POINT (SEE NETAFIM DETAIL: FLUSH VALVE)
7. DRIP AREA; DEFINED BY HATCH ASSOCIATED TO ZONE TAG ON PLANS



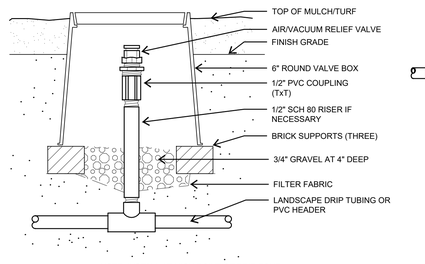
10 DRIP HATCH LAYOUT



6 DRIPLINE FITTINGS

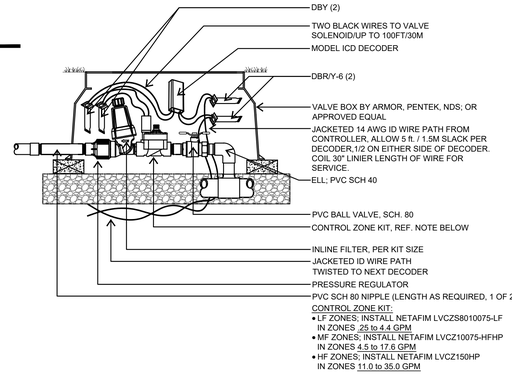


NOTE: INSTALL AT FARTHEST POINT OF DRIP ZONE. INSTALL AT EACH END POINT.



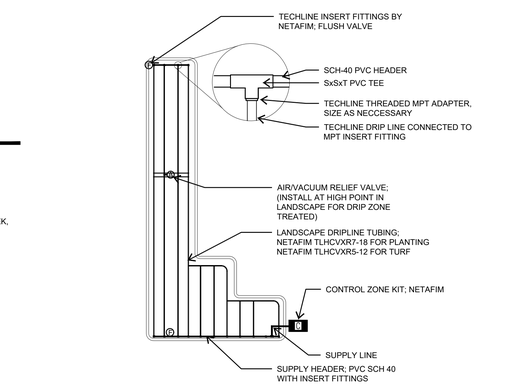
NOTE: INSTALL AT HIGH POINT OF DRIP ZONE.
IF MORE THAN TWO HIGH POINTS IN A ZONE, INSTALL AT EACH HIGH POINT.

5 DRIPLINE FLUSH VALVE



CONTROL ZONE KIT:
- LF ZONES; INSTALL NETAFIM LVCZS8010075-LF IN ZONES .25 to 4.4 GPM
- MF ZONES; INSTALL NETAFIM LVCZ10075-HFHP IN ZONES 4.5 to 17.6 GPM
- HF ZONES; INSTALL NETAFIM LVCZ150HP IN ZONES 11.0 to 35.0 GPM

4 AIR RELIEF VALVE



3 DRIPLINE INSTALLATION (CENTER FEED)

2 DRIPLINE INSTALLATION (END FEED)

1 CONTROL ZONE KIT

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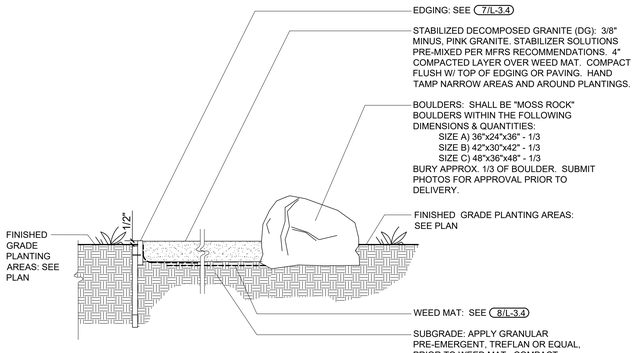
IRRIGATION DETAILS
PHASE II

L-3.3



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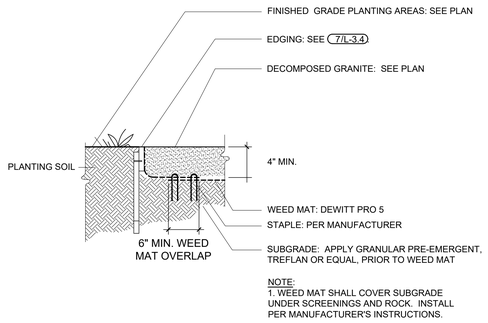
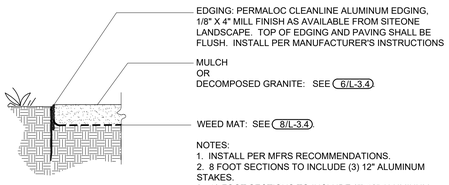
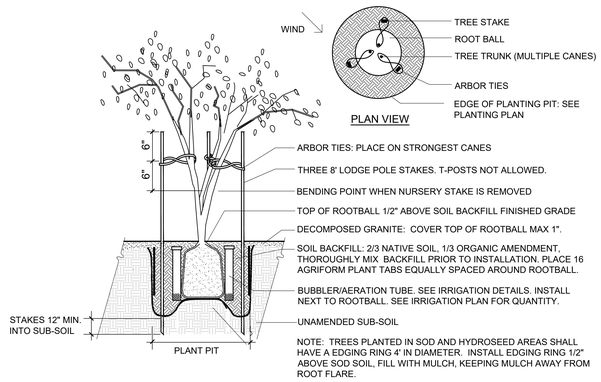


8 Weed Mat
NTS

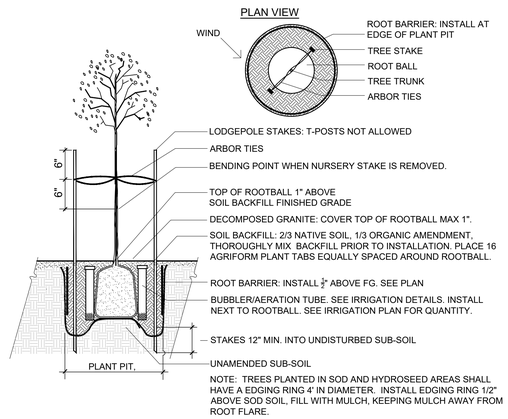


7 Edging
NTS

6 Boulders
NTS



5 Tree Planting & Staking - Multi-trunk
NTS



4 Tree Planting and Staking - Single
NTS

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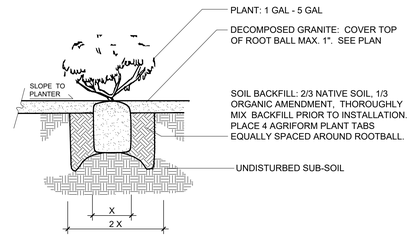
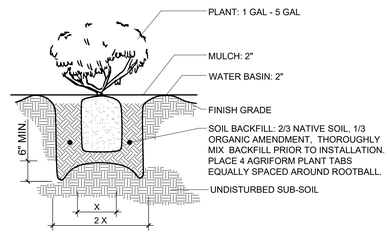


2 Shrub Planting in Decomposed Granite
NTS



1 Shrub / Groundcover Planting
NTS

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TEXAS 77379

TRUE PLAN KEYPLAN

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PLANTING DETAILS

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L-3.4

GENERAL STRUCTURAL NOTES

THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS OR DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS WITH ARCHITECTURAL & MECHANICAL DRAWINGS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY. DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE CONTROLLING PROVISIONS OF THE 2021 EDITION OF THE **INTERNATIONAL BUILDING CODE (IBC)**

DESIGN CRITERIA

1. BASIS FOR DESIGN AND CODE COMPLIANCE

   A. GOVERNING BUILDING CODE.....IBC 2021 EDITION

2. GRAVITY DESIGN
   ROOF:
   DEAD LOAD.....SELF-WEIGHT OF STRUCTURE & ROOFING SYSTEM
   LIVE LOAD.....20 PSF (REDUCIBLE)
   GROUND SNOW LOAD.....5 PSF
   ADDITIONAL POINT LOADS.....AS NOTED ON DRAWINGS

3. WIND DESIGN BASED ON:

   A. ASCE 7-16 REQUIREMENTS

   DESIGN WIND SPEED.....138 MPH (Vasd = 107 MPH)
   RISK CATEGORY.....III
   WIND EXPOSURE CATEGORY.....B
   INTERNAL PRESSURE COEFFICIENT (GCpi).....+/-0.18
   Kzt.....1.0
   Kd.....0.85

4. SEISMIC DESIGN
   SEISMIC DESIGN CATEGORY.....A
   OCCUPANCY CATEGORY.....III
   IMPORTANCE FACTOR (I).....1.25
   SDS (SHORT PERIOD).....0.074g
   SD1 (1-SECOND PERIOD).....0.065g
   SITE SOIL CLASSIFICATION.....D
   LATERAL RESISTING SYSTEM.....ORDINARY STEEL BRACED FRAMES

FOUNDATION DESIGN CRITERIA

1. FOUNDATION DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AND IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY UES TESTING, HOUSTON, TX, DATED 07-31-2025. REPORT NUMBER H251104.

   GRADE BEAMS, FOOTINGS, AND SLAB:
   BEARING CAPACITY (TOTAL LOAD) ..... 3,000 PSF

   SUBSURFACE WATER WAS NOT ENCOUNTERED DURING OR AFTER TERMINATION OF DRILLING OPERATIONS (MAY FLUCTUATE WITH SEASON).

2. THE GEOTECHNICAL ENGINEER OF RECORD SHALL BE RETAINED TO PERFORM TESTING AND INSPECTIONS DURING SITE PREPARATION AND PLACEMENT OF BUILDING PAD FILL AS REQUIRED BY SPECIFICATIONS AND GENERAL STRUCTURAL NOTES.

FOUNDATION NOTES

1. REMOVE **AT LEAST 8 INCHES** OF THE EXISTING SITE SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE BUILDING AREA (EXTERIOR OF THE FOUNDATION, INCLUDING ATTACHED IMPROVEMENTS SUCH AS SIDE WALKS AND CANOPIES). DEPTH OF REMOVAL SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION.

2. AFTER TOP SOIL HAS BEEN REMOVED, THE EXPOSED SUBGRADE SHALL BE PROOF-ROLLED WITH APPROPRIATE CONSTRUCTION EQUIPMENT WEIGHING AT LEAST 20 TONS UNTIL THE GRADE OFFERS A RELATIVELY UNYIELDING SURFACE. SOFT SOIL AND YIELDING AREAS SHALL BE OVER EXCAVATED AND REPLACED WITH COMPACTED SELECT FILL IN ACCORDANCE WITH THE REQUIREMENTS BELOW.

3. PROOFROLLING OPERATIONS AND EXCAVATION/BACKFILL ACTIVITIES SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER AND OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE TO DOCUMENT SUBGRADE CONDITIONS AND PREPARATION. IF SUBGRADE SOILS ARE ALLOWED TO BECOME WET OR SATURATED, REMOVAL AND REPLACEMENT OF SOFT SOILS OR LIME STABILIZATION PROCEDURES SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS, IF REQUIRED.

4. SCARIFY, MOISTURE CONDITION, AND COMPACT THE TOP 6" OF THE EXPOSED SUBGRADE TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY TO WITHIN OPTIMUM AND +3% MOISTURE CONTENT, IN ACCORDANCE WITH TEST METHOD ASTM D-698 STANDARD PROCTOR. MOISTURE CONTENT SHALL BE AS NOTED IMMEDIATELY PRIOR TO PLACING SELECT FILL.

5. RESTORE GRADE USING SELECT FILL MEETING THE REQUIREMENTS OF SELECT FILL MINIMUM OF 46 INCHES OR AS REQUIRED TO PROVIDE THE SPECIFIED FINISH GRADE ELEVATION, WHICHEVER IS GREATER, AND PROPER SITE DRAINAGE, COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW. FINISH FLOOR SHALL BE VERIFIED WITH ARCHITECT AND CIVIL ENGINEER.

6. SELECT FILL SHALL BE COMPACTED IN THE FIELD IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY FROM OPTIMUM TO +3% ABOVE OPTIMUM MOISTURE CONTENT AS EVALUATED BY ASTM D-698 STANDARD PROCTOR.

7. SELECT FILL SHALL HAVE A PLASTICITY INDEX (PI) NOT LESS THAN 8 OR GREATER THAN 20. A LIQUID LIMIT NOT EXCEEDING 40%, AND SHOULD HAVE A MAXIMUM PARTICLE SIZE OF 4" IN DIAMETER. SELECT FILL SHALL BE CLASSIFIED IN ACCORDANCE TO ASTM D2487.

8. SELECT MATERIAL EXTENDING BEYOND BUILDING LINES SHOULD BE CAPPED WITH A 1FT THICK LAYER OF CLAYEY TYPE SOIL, MATERIAL WITH A PLASTICITY INDEX OF AT LEAST 30, COMPACTED AS NOTED ABOVE.

9. FOUNDATION CONCRETE SHALL NOT BE PLACED ON SELECT FILL SOILS THAT HAVE BEEN DISTURBED BY RAINFALL OR WATER SEEPAGE. IF BEARING SOILS ARE SOFTENED BY WATER INTRUSION, OR BY DESICCATION, THE UNSUITABLE SOILS SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION AND BE REPLACED WITH PROPERLY COMPACTED SELECT FILL PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. ALL SOIL REMOVAL AND REPLACEMENT COSTS, INCLUDING ASSOCIATED COSTS TO REMOVE AND REINSTALL REINFORCEMENT AND VAPOR RETARDER MATERIALS, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DEPTH OF SOIL REMOVAL AND RECOMPACTION REQUIREMENTS SHALL BE COORDINATED WITH THE GEOTECHNICAL ENGINEER.

10. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND REVIEW BY THE GEOTECHNICAL ENGINEER.

11. LABORATORY MOISTURE-DENSITY CURVES SHALL BE DEVELOPED FOR SUBGRADE AND FILL. PROCTOR CURVES AND FIELD DENSITY TESTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. A MINIMUM OF ONE (1) IN PLACE DENSITY TEST PER 2,500 SQUARE FEET OF SLAB AREA SHALL BE TAKEN ON EACH LIFT DURING PLACEMENT OF SELECT FILL. DENSITY REPORTS SHALL BE TRANSMITTED TO ENGINEER WITHIN 3 DAYS AFTER TESTS ARE MADE.

12. GRAIN SIZE ANALYSIS AND ATTERBERG LIMITS TESTS SHALL BE PERFORMED DURING FILL PLACEMENT AT A RATE OF ONE TEST PER 2,000 CUBIC YARDS OF FILL BROUGHT TO THE SITE. SAMPLES FOR TEST SHALL BE TAKEN FROM JOBSITE MATERIALS.

13. SITE SHALL BE GRADED SO THAT WATER DOES NOT POND WITHIN 10 FEET OF THE PERIMETER FOUNDATION BEAM DURING OR AFTER CONSTRUCTION. THE SLOPE OF THE GROUND SURFACE AWAY FROM THE STRUCTURE SHOULD BE A MINIMUM OF TWO (2%) PERCENT FOR A DISTANCE OF AT LEAST TEN (10') FEET. ELEVATION OF GROUND SURFACE ADJACENT TO THE FOUNDATION SHOULD BE AT LEAST 6 INCHES BELOW FINISH FLOOR.

14. FINAL DRAINAGE IS VERY IMPORTANT TO THE PERFORMANCE OF THE FOUNDATION. LANDSCAPING, PLUMBING, AND DOWNSPOUT DRAINAGE ARE ALSO VERY IMPORTANT. IT IS VITAL THAT ALL ROOF DRAINAGE BE TRANSPORTED AWAY FROM BUILDINGS SO THAT NO AREAS OF WATER POND AROUND BUILDINGS, WHICH CAN RESULT IN SOIL VOLUME CHANGE UNDER THE FOUNDATION. PLUMBING LEAKS SHOULD BE REPAIRED AS SOON AS POSSIBLE IN ORDER TO MINIMIZE THE MAGNITUDE OF MOISTURE CHANGE UNDER THE SLAB. LARGE TREES AND SHRUBS SHOULD NOT BE PLANTED IN THE IMMEDIATE VICINITY OF THE STRUCTURE, SINCE THE ROOT SYSTEMS CAN CAUSE A SUBSTANTIAL REDUCTION IN SOIL VOLUME IN THE VICINITY OF THE TREE DURING DRY PERIODS. BUSHES AND TREES SHOULD BE PLANTED A REASONABLE DISTANCE AWAY FROM THE STRUCTURE SO THAT THEIR CANOPY OR "DRIP LINE" DOES NOT EXTEND BEYOND THE PERIMETER OF THE FOUNDATION. WATERING OF VEGETATION SHOULD BE PERFORMED IN A TIMELY AND CONTROLLED MANNER. PROLONGED WATERING SHOULD BE AVOIDED.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION.

2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.

3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.

4. A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEMENT SUBSTITUTE AND SHALL CONFORM TO ASTM C618, CLASS C. THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.6 AND SLUMPS SHALL BE 5 INCHES (±) INCH). CONCRETE FOR PIERS SHALL BE DESIGNED TO ACHIEVE SPECIFIED STRENGTH WHEN PLACED WITH A SEVEN (7) INCH (±) SLUMP. AGGREGATE SHALL BE WELL-GRADED, 1" MAXIMUM FOR THE SLAB ON GRADE, 1" MAXIMUM FOR CAST-IN-PLACE BEAMS AND ABOVE GRADE SLABS. COARSE AGGREGATE SHALL MEET ASTM C33, GRADATION #57. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRETE. A SAMPLE OF FOUR CYLINDERS SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 YD3 OF CONCRETE. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS. THE FOURTH CYLINDER MAY BE DISPOSED OF AFTER 45 DAYS IF NOT USED.

5. ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE IONS GREATER THAN 0.06% BY WEIGHT OF CEMENT SHALL NOT BE USED.

6. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. #3 BARS MAY BE GRADE 40.

7. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:

   WHERE CAST AGAINST DIRT OR FILL ..... 3 IN.
   EXPOSED TO EARTH OR WEATHER ..... 2 IN.
   SLABS AND WALLS ..... 1 IN.
   OTHER ..... 1-1/2 IN.

8. WELDED WIRE FABRIC MATS SHALL BE ASTM A185.

9. ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, LATEST EDITION.

10. SLAB MAT TO BE SUPPORTED BY PLASTIC CHAIRS SPACED AT 4 FEET ON CENTER EACH WAY (MAX). BEAM CAGES SUPPORTED BY BATTS AT 4 FEET ON CENTER.

11. VERTICAL CONSTRUCTION JOINTS IN FLOOR SHALL BE COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO FORMING SLAB. CRACK CONTROL JOINTS SHALL BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS. CONTROL JOINTS SHALL BE SAWCUT (IMMEDIATELY SUBSEQUENT TO FINISHING SLAB) WITH "SOFF-CUT" SYSTEM. JOINTS SHALL BE CLEANED AND FILLED WITH "SONOLASTIC SL1" WITHIN TWO (2) DAYS AFTER SAWCUTTING. NO HORIZONTAL JOINTS WILL BE PERMITTED IN SLABS OR BEAMS UNLESS APPROVED BY THE ENGINEER.

12. PROVIDE 2 TOP & BOTTOM CORNER BARS AT ALL DISCONTINUOUS GRADE BEAMS AND FOUNDATION CORNERS. CORNER BARS SHALL BE 4'-0" IN LENGTH (2'-0" LEGS). SIZE OF THE CORNER BARS SHALL MATCH THE SIZE OF THE GRADE BEAM REINFORCING AS SHOWN BY STRUCTURAL DRAWINGS.

13. MAINTAIN A MINIMUM OF ONE AND ONE-HALF (1-1/2) TIMES THE MAXIMUM COARSE AGGREGATE SIZE BETWEEN ALL REINFORCING BARS (EXCEPT AT LAPS).

14. BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAPPED 40 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS OTHERWISE NOTED.

15. WHERE CONCRETE IS TO HAVE UNEXPOSED SURFACES, THE FORMS MAY BE CONSTRUCTED OF #2 LUMBER OR BETTER. WHERE SURFACES ARE EXPOSED, SUCH AS FOR FINISH PAINTING OR STUCCO DASH, THE FORMS SHALL BE COMMERCIAL STANDARD DOUGLAS FIR, MOISTURE-RESISTANT CONCRETE FORM PLYWOOD; MINIMUM 5-PLY AND AT LEAST 9/16" THICK, OR FORMS LINED WITH COMMERCIAL STANDARD DOUGLAS FIR, CONCRETE FORM EXTERIOR, 3-PLY, NOT LESS THAN 1/4" THICK. WHERE CONCRETE IS EXPOSED, A SMOOTH SURFACE IS REQUIRED, FREE FROM FINS, HONEYCOMB, FORM MARKS OR OTHER DEFECTS.

16. EXPOSED SURFACES OF CONCRETE AT THE PERIMETER OF THE FOUNDATION SHALL BE FORMED WITH 2x10 #2 LUMBER OR BETTER. A SMOOTH SURFACE IS REQUIRED, FREE FROM FINS, HONEYCOMB, FORM MARKS OR OTHER DEFECTS.

17. CONSTRUCT FORMS SO THAT JOINTS ARE LEAKPROOF. MAINTAIN FORMS SUFFICIENTLY RIGID TO PREVENT DEFORMATION UNDER LOAD.

18. CONCRETE MAY BE PLACED WITH CHUTES UP TO 25' MAXIMUM. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.

19. CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:

   A. COARSE AGGREGATE SHALL BE GRADED FROM A MAXIMUM OF 1" DOWN

   B. MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.

   C. MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2 GALLONS PER SACK OF CEMENT. IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.

   D. MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES SHALL NOT EXCEED 2/3.

   E. REFER TO A.C.I. #301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.

   F. IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE.

   G. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.

20. FLOOR FINISH (TOLERANCES)

   A. STEEL TROWEL FINISH 1/8" IN 10'

   B. FLOAT FINISH 1/4" IN 10'

   C. SCRATCH FINISH 1/2" IN 10'

21. CONCRETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. PROPOSED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO CONCRETE PLACEMENT.

22. SHOP DRAWINGS SHALL BE PREPARED FOR ALL REINFORCING STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. SUBMITTALS SHALL INCLUDE ELECTRONIC (PDF) COPIES OF EACH DRAWING. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.

23. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.

24. ENGINEER TO BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF FOUNDATION AND OF STRUCTURAL CONCRETE TO SCHEDULE REQUIRED OBSERVATIONS.

STRUCTURAL STEEL

1. TOP OF BEAM/PLATE (TOB OR TOP) IS USED INTERCHANGEABLY ON PLANS. REFERENCE APPLICABLE SECTION FOR CLARIFICATION.

2. STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM SPECIFICATION A 572 AND/OR ASTM A 992 (Fy = 50 KSI) UNLESS OTHERWISE SHOWN OR NOTED. PLATE AND ANGLES MAY BE A36 (Fy = 36 KSI).

3. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM SPECIFICATION A-500, GRADE B (Fy = 46 KSI). STEEL PIPE SHALL COMPLY WITH ASTM A53 TYPE E OR S (Fy = 35 KSI).

4. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND STEEL JOIST INSTITUTE.

5. ALL STEEL BAR JOISTS SHALL BE DESIGNED AND FABRICATED BY A MEMBER OF THE STEEL JOIST INSTITUTE. IF REQUESTED BY THE A/E, THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATE OF FABRICATOR'S MEMBERSHIP TO THE STEEL JOIST INSTITUTE AT TIME OF SHOP DRAWING SUBMITTAL.

6. BAR JOISTS SHALL BE BOLTED WHERE COLUMNS ARE FRAMED WITH STRUCTURAL STEEL MEMBERS IN ONLY ONE DIRECTION TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION/ERECTION AS REQUIRED BY OSHA.

7. TOTAL LOAD DEFLECTION OF SPECIAL BAR JOIST SHALL NOT EXCEED L/240.

8. JOIST MANUFACTURER SHALL PROVIDE BRIDGING AS REQUIRED TO ADEQUATELY BRACE JOISTS AGAINST LATERAL MOVEMENT AND NET UPLIFT OF 30 PSF.

9. ALL BOLTS SHALL BE 3/4 DIAMETER ASTM A325. WASHERS SHALL BE PROVIDED AT OVERSIZED HOLES AND AT SLOTTED CONNECTIONS AT EXPANSION JOINTS. A325 CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. ANCHOR BOLTS MAY BE ASTM A307 UNLESS NOTED OTHERWISE.

10. REFER TO ARCHITECTURAL & MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.

11. ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS INDICATED ON PLANS OR APPROVED BY THE ENGINEER IN WRITING.

12. ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS (A.W.S. D-1.1).

13. WELDS SHALL BE MADE WITH COVERED MILD STEEL ELECTRODES COMPLYING WITH AWS D1 CODE AND SERIES E 70XX.

14. ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND BE TRUE AND PLUMB WHEN WELDS ARE MADE.

STRUCTURAL STEEL CONTINUED:

15. ALL COMPLETE PENETRATION WELDS, BOTH SHOP AND FIELD, SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY UTILIZING ULTRA SONIC TESTING PROCEDURES IN ACCORDANCE WITH AWSD1.1 ANY WELDS FOUND DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. ALL X-RAYED WELDS SHALL BE GROUND SMOOTH.

16. THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.

17. ALL STEEL MEMBERS, INCLUDING BAR JOISTS, UNLESS NOTED OTHERWISE, SHALL BE PAINTED W/ ONE COAT OF SHOP PRIMER. DO NOT PRIME ITEMS TO BE EMBEDDED IN CONCRETE OR FIRE PROOFED W/ SPRAY ON MATERIAL WITHOUT COORDINATION W/ THE ARCHITECT. GALVANIZED DECK SHALL BE CONFORM TO ASTM A525, G60 (MINIMUM).

18. REINFORCE STEEL DECK OPENINGS (ROOF) FROM 6" TO 18" WITH 2 x 2 x 1/4 STEEL ANGLES. PLACE ANGLES PERPENDICULAR TO FLUTES, EXTEND MINIMUM OF TWO FLUTES BEYOND EACH SIDE OF OPENING AND WELD DECK AT EACH FLUTE. OPENINGS LARGER THAN 18" SHALL BE REINFORCED WITH 3 x 3 x 1/4 STEEL ANGLES WELDED TO TOP CHORD OF BAR JOISTS UNLESS SHOWN OTHERWISE ON PLANS. WELD DECK TO ANGLE AT 6" O/C AT PERIMETER OF OPENINGS.

19. STEEL LINTELS SUPPORTING BRICK VENEER AT EXTERIOR WALLS SHALL BE ONE HOT-DIPPED GALVANIZED 5 x 5 x 5/16 ANGLE, UNLESS NOTED OTHERWISE.

20. CONTRACTOR SHALL PROVIDE MISCELLANEOUS STEEL AS REQUIRED AT ELEVATOR RAIL SUPPORT POINTS. COORDINATE REQUIREMENTS WITH ELEVATOR MANUFACTURER.

21. WELDED HEADED STUDS (WHS) SHALL BE "NELSON ANCHORS", OR EQUAL, Fs = 60 KSI, DIAMETER AND LENGTH AS SHOWN ON PLANS. STUDS TO BE WELDED& SHOP TESTED IN ACCORDANCE W/ THE MANUFACTURER'S RECOMMENDATIONS.

22. AFTER ERECTION, PRIME WELDS, ABRASIONS AND SURFACES NOT PRIMED. USE PRIMER CONSISTENT WITH SHOP COAT. GALVANIZED SURFACES (HOT DIPPED OR COLD) SHALL BE CLEANED AND PAINTED WITH "ZRC". ROOF DECK WELDS TO BE CLEANED AND PAINTED PRIOR TO INSTALLING ROOF INSULATION.

23. FIELD WELDS AND BOLTED CONNECTIONS SHALL BE VISUALLY INSPECTED BY A QUALIFIED INDEPENDENT INSPECTOR. THE INSPECTOR SHALL PROVIDE A WRITTEN REPORT TO THE STRUCTURAL ENGINEER.

24. ELECTRONIC (PDF) SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL STEEL COMPONENTS AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.

25. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.

26. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR A FRAMING OBSERVATIONS IMMEDIATELY AFTER ROOF DECK IS INSTALLED AND BEFORE INSTALLATION OF THE CEILING.

FASTENERS

1. CAST-IN-PLACE AND POST-INSTALLED ANCHORS SHALL BE PER ANCHOR DIAMETER AND EMBEDMENT DEPTH NOTED ON THE DRAWINGS. POST-INSTALLED ANCHORS SHALL BE UTILIZED ONLY WHERE SPECIFIED.

2. ALL ANCHORS NOTED BELOW SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS, AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.

3. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT NOTED BELOW. SPECIAL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT TESTING LABORATORY PERFORMING QA/QC SERVICES ON PROJECT.

4. EXPANSION BOLTS (EB) IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. KWIK BOLT III (ICC-ES ESR-2302) BY HILTI (CONCRETE)

   B. KWIK BOLT III (ICC-ES-ESR-1385) BY HILTI (MASONRY)

   C. STRONG-BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG-TIE (CONCRETE)

   D. WEDGE-ALL ANCHOR (ICC-ES ESR-1396) BY SIMPSON STRONG-TIE (MASONRY)

5. HEAVY DUTY SLEEVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED OR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION BOLTS (EB) SHALL NOT BE SUBSTITUTED FOR SLEEVE ANCHORS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER. ACCEPTABLE PRODUCTS:

   A. HSL-3 (ICC-ES ESR-1545) BY HILTI (CONCRETE)

6. SCREW ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. KWIK HUS-EZ (ICC-ES ESR-3027) BY HILTI (CONCRETE)

   B. KWIK HUS-EZ (ICC-ES ESR-3056) BY HILTI (MASONRY)

   C. TITEN HD (ICC-ES ESR-2713) BY SIMPSON STRONG-TIE (CONCRETE)

   D. TAPCON ANCHORS (ICC-ES ESR-1671) (MASONRY)

   E. POWERS WEDGE BOLT (ICC-ES ESR-1678) (MASONRY)

7. UNDERCUT ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. HDA (ICC-ES ESR-1546) BY HILTI (CONCRETE)

   B. TORQ-CUT (ICC-ES ESR-2705) BY SIMPSON STRONG-TIE (CONCRETE)

8. POWDER ACTUATED FASTENERS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. X-U (ICC-ES ESR-2269) BY HILTI (CONCRETE/MASONRY/STEEL)

   B. POWDER ACTUATED FASTENERS (ICC-ES ESR-2138) BY SIMPSON STRONG TIE (CONCRETE/MASONRY)

9. ADHESIVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ACCEPTABLE PRODUCTS:

   A. HIT-RE 500-V3 (ICC-ES ESR-3814) BY HILTI (CONCRETE)

   B. HIT-HY 70 (ICC-ES ESR-2682) BY HILTI (MASONRY)

   C. SET-XP (ICC-ES ESR-2508) BY SIMPSON STRONG-TIE (CONCRETE)

   D. SET (ICC-ES ESR-1772) BY SIMPSON STRONG-TIE (MASONRY)

10. J-BOLTS SHALL BE FABRICATED FROM ASTM A36/A307 ROD. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. EXPANSION BOLTS/SLEEVE ANCHORS SHALL NOT BE SUBSTITUTED FOR J-BOLTS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER.

11. HEADED ANCHOR RODS SHALL BE FABRICATED FROM ASTM F1554 MATERIAL, FY=36 KSI

12. SUBSTITUTION REQUESTS FOR PRODUCTS LISTED ABOVE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS. SUBSTITUTED ANCHORS SHALL HAVE A VALID CURRENT EVALUATION (ICC-ES OR IAPMO-ES) REPORT.

13. REFERENCE STRUCTURAL STEEL NOTES FOR BOLTS CONNECTING STRUCTURAL STEEL COMPONENTS.

LIGHTWEIGHT STEEL FRAMING (STEEL STUDS)

1. **THIS BUILDING IS A LOAD-BEARING METAL STUD STRUCTURE. UNDER NO CIRCUMSTANCE SHALL ANY METAL STUD BE CUT, NOTCHED, BORED, OR DAMAGED. THE GENERAL CONTRACTOR AND PROJECT SUPERINTENDENT SHALL ENSURE THAT METAL STUD FRAMING IS NOT DAMAGED BY THE INSTALLATION OF WORK COMPLETED BY OTHER TRADES.**

2. **THE GENERAL CONTRACTOR, PROJECT SUPERINTENDENT AND THE LIGHTWEIGHT STEEL FRAMING FOREMAN** SHALL MEET WITH THE STRUCTURAL ENGINEER PRIOR TO THE START OF LIGHTWEIGHT STEEL FRAMING WORK TO REVIEW PROJECT REQUIREMENTS AND PROCEDURES.

3. ALL STUDS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS. STUD MANUFACTUREING OF ALL MEMBERS AND ACCESSORIES SHALL COMPLY w/ ASTM C 955.

4. ALL STUDS AND JOIST MEMBERS 16 GAUGE AND HEAVIER SHALL BE FORMED FROM STEEL CORRESPONDING TO A TYPE LISTED IN THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", WITH A MINIMUM YIELD STRENGTH OF 50 KSI UNLESS SPECIFICALLY NOTED OTHERWISE.

5. ALL 18 GAUGE AND LIGHTER MEMBERS, TRACK, BRIDGING, AND ACCESSORY ITEMS SHALL BE FORMED FROM STEEL "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", WITH A MINIMUM YIELD STRENGTH OF 33 KSI UNLESS SPECIFICALLY NOTED OTHERWISE.

6. ALL FRAMING PRODUCTS SHALL BE FORMED FROM STEEL POSSESSING A COATING CORRESPONDING TO THE MINIMUM REQUIREMENTS OF ASTM 653, G60.

7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR EMBERS, OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

8. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD FORMED MEMBERS IS UNACCEPTABLE.

9. WHEN REQUIRED FOR BRIDGING PURPOSES, THE FRAMING FABRICATOR IS TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING FRAMING AND FIELD CUTTING STUDS TO LENGTH. REFER TO TYPICAL STUD/TRACK CONNECTION AND INDEXING DETAILS.

10. NO SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE W

GENERAL STRUCTURAL NOTES

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS INDEPENDENT OF THE CONTRACTOR, THE ARCHITECT, OR THE ENGINEER, SHALL BE PROVIDED BY A SPECIAL INSPECTOR EMPLOYED BY THE OWNER ACCORDING TO CHAPTER 17 OF THE IBC 2021. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SEND WRITTEN REPORTS TO THE OWNER, THE ARCHITECT, THE ENGINEER AND THE CONTRACTOR. THE REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF THEIR KNOWLEDGE, IN OR NOT IN CONFORMANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC 2021.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
VERIFY SOILS BELOW SHALLOW FOUNDATIONS ARE SUITABLE TO ACHEIVE THE BEARING CAPACITY FOR WHICH THEY WERE DESIGNED		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED SELECT FILL MATERIALS		X
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF SELECT FILL	X	
PRIOR TO PLACEMENT OF COMPACTED SELECT FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT		X
INSPECT ANCHORS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE		X
VERIFY USE OF REQUIRED DESIGN MIX		X
PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE AT THE TIME OF SAMPLING FRESH CONCRETE FOR MAKING SPECIMENS FOR STRENGTH TESTS PER ACI 318	X	
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X

REQUIRED VERIFICATION AND INSPECTION OF ANCHORS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
CAST-IN-PLACE, POST-INSTALLED, MECHANICAL AND EPOXY SET ANCHORS: AS APPLICABLE, THE INSPECTION PROGRAM SHALL VERIFY THE ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH & DIAMETER AND CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CURRENT ICC-ES EVALUATION REPORT		FREQUENCY OF INSPECTION SHALL BE IN ACCORDANCE WITH THE CURRENT ICC-ES EVALUATION REPORT, OR PER THE SPECIAL INSPECTION REQUIREMENTS OF THE ANCHOR SUBSTRATE AND ORIENTATION, WHICHEVER IS MORE STRINGENT

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X
INSPECTION OF HIGH STRENGTH BOLTING		X
INSPECTION OF WELDING:		
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	
MULTIPASS FILLET WELDS	X	
SINGLE-PASS FILLET WELDS		X
FLOOR AND ROOF DECK WELDS		X
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X

REQUIRED VERIFICATION AND INSPECTION OF COLD-FORMED LIGHTWEIGHT STEEL FRAME CONSTRUCTION (EXTERIOR METAL STUDS)

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
MATERIAL VERIFICATION OF COLD-FORMED LIGHTWEIGHT FRAMING MEMBERS AND ACCESSORIES		X
TYPE, SIZE AND GAGE OF FRAMING MEMBERS AND ACCESSORIES (AS PER SHOP DRAWINGS)		X
SPACING OF FRAMING MEMBERS, BRACING, BLOCKING, AND BRIDGING (AS PER SHOP DRAWINGS)		X
INSPECTION OF WELDING; TYPE, LENGTH, SPACING (AS PER SHOP DRAWINGS)		X
INSPECTION OF FASTENER ATTACHMENT: BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS.		X

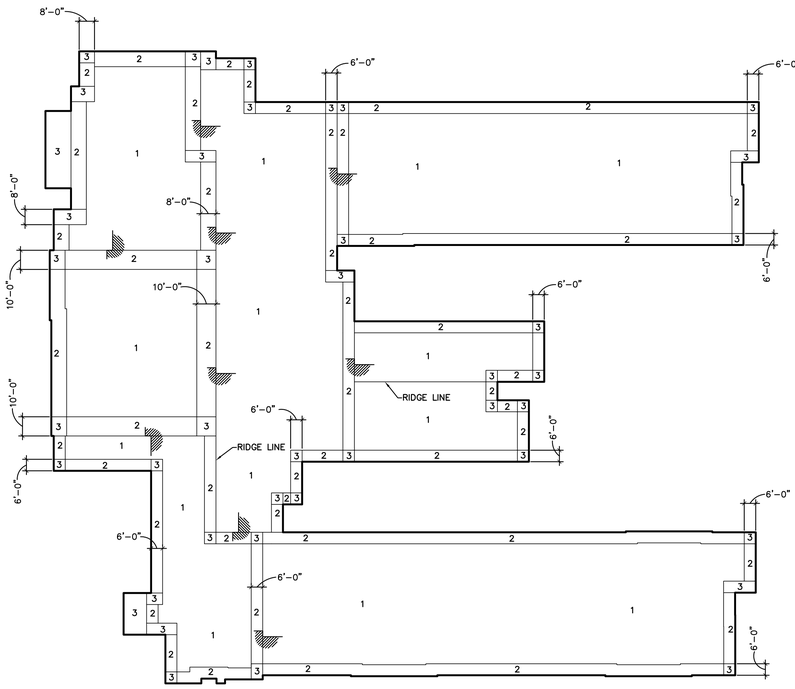
SPECIAL INSPECTIONS CONTINUED:

REQUIRED VERIFICATION AND INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
INSPECT THE INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS		X
INSPECT WELDED OR BOLTED END CONNECTIONS		X
INSPECT HORIZONTAL OR DIAGONAL STANDARD BRIDGING AND BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS		X

REQUIRED VERIFICATION AND INSPECTION OF PIER FOUNDATIONS

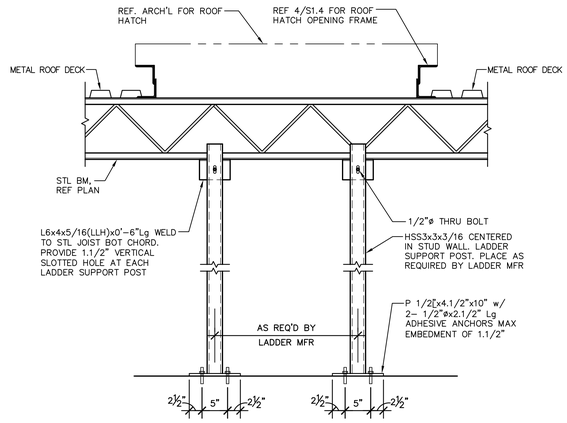
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS OF EACH PIER	X	
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM PIER SHAFT DIAMETERS, BELL DIAMETERS, LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY	X	
FOR CONCRETE PIERS, PERFORM ADDITIONAL INSPECTIONS AS REQUIRED FOR CONCRETE CONSTRUCTION		



HARMONY PUBLIC SCHOOLS
MIDDLE/HIGH SCHOOL CITY PLACE PHASE II
ROOF DESIGN WIND PRESSURE (SERVICE)

DESIGN WIND PRESSURE FOR ROOF COMPONENTS & CLADDING	
ZONE	P- (UPLIFT)
1	-33 PSF
2	-43 PSF
3	-59 PSF

EXTERIOR FINISHES, DOORS & WINDOWS MAXIMUM DESIGN WIND PRESSURES
P+ = +19 PSF TOWARDS THE SURFACE
P- = -25 PSF AWAY FROM THE SURFACE



1 TYPICAL ROOF HATCH LADDER SUPPORT FRAMING

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6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
Drawn: DM, DC, HR
Checked: BD

Revisions:

No.	Description	Date

Sheet Title:
GENERAL STRUCTURAL NOTES

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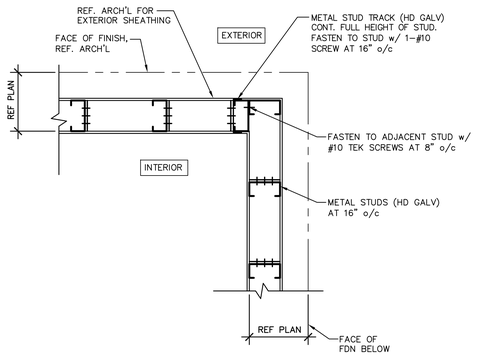
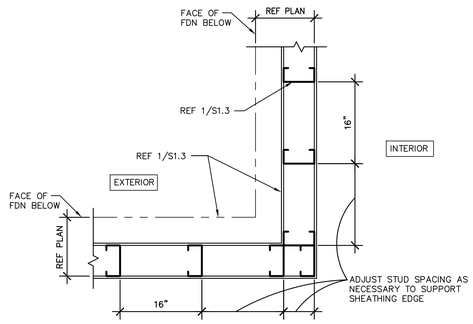
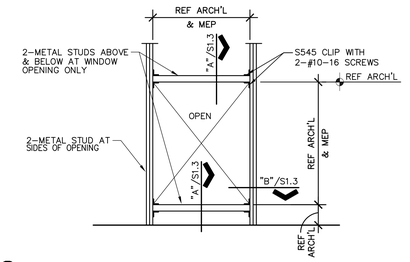


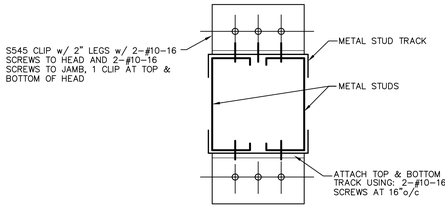
1 TYPICAL STUD FRAMING AT EXTERIOR BUILDING OUTSIDE CORNER



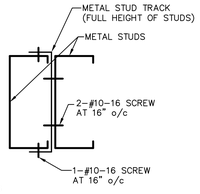
2 TYPICAL STUD FRAMING AT EXTERIOR BUILDING INSIDE CORNER



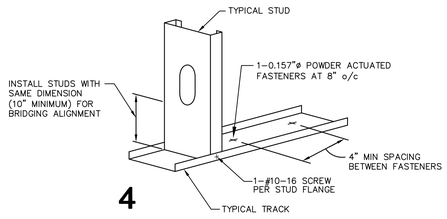
3 TYPICAL WINDOW/DOOR/LOUVER OPENING



"A"



"B"



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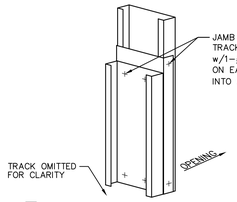

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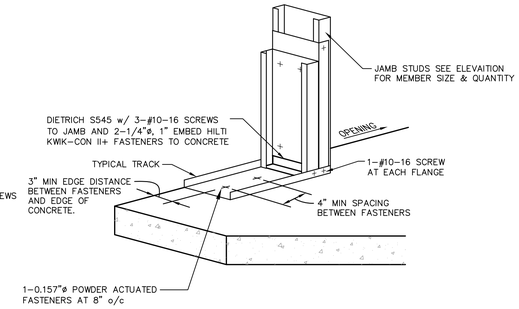

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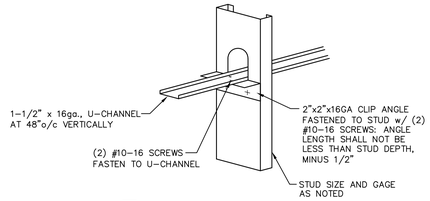
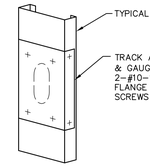
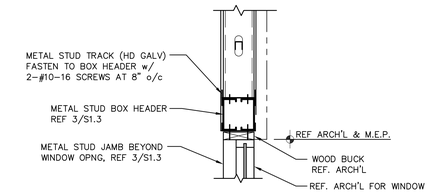


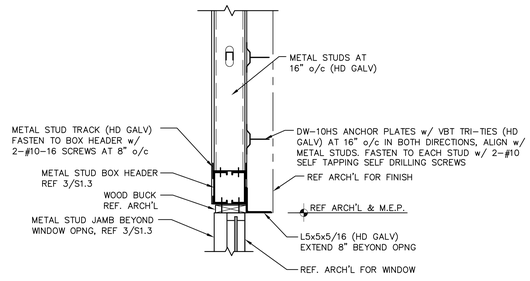
7 METAL STUD BRIDGING



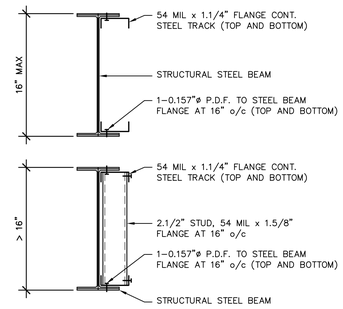
8 TYPICAL PUNCH-OUT REINFORCMENT DETAIL



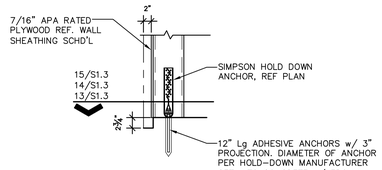
9 TYPICAL WINDOW/DOOR/LOUVER OPENING HEADER DETAIL



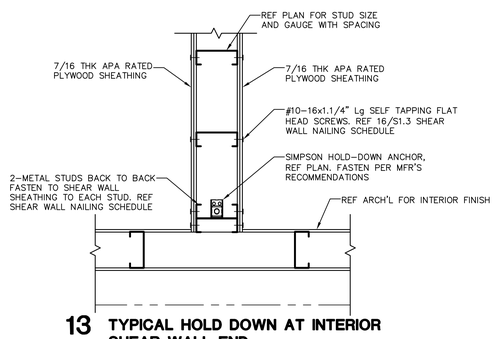
10 TYPICAL WINDOW/DOOR/LOUVER OPENING HEADER DETAIL WITH BRICK VENEER



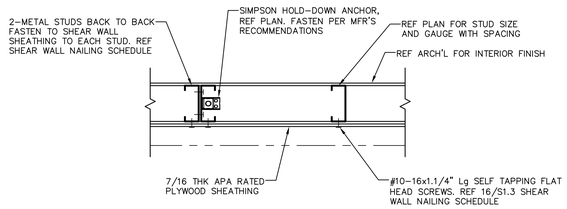
11 TYPICAL STEEL BEAM INFILL STUD DETAIL



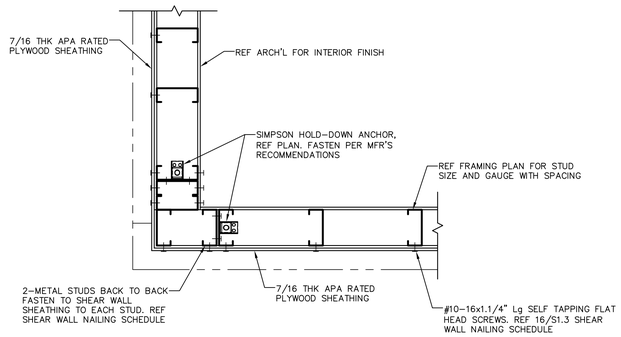
12 TYPICAL HOLD DOWN ANCHOR



13 TYPICAL HOLD DOWN AT INTERIOR SHEAR WALL END



14 TYPICAL HOLD DOWN AT SHEAR WALL END



15 TYPICAL HOLD DOWN ANCHOR AT SHEAR WALL LOCATED AT EXTERIOR WALL CORNERS

SHEAR WALL SHEATHING FASTENING SCHEDULE
FASTEN TO METAL STUDS WITH #10-16x1.1/4" LG SELF TAPPING FLAT HEAD SCREWS AT 4" o/c ALONG EDGE OF SHEET AND 12" o/c AT INTERIOR SUPPORTS

16 SHEAR WALL SHEATHING FASTEN SCHEDULE

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Foodservice Design Professionals
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The Woodlands, TX 77380
Phone: 281-350-2323

STATE OF TEXAS — ROLANDO R. RUBIANO — 85360 — LICENSED PROFESSIONAL ENGINEER — 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

Project Number:	696-258
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Checked:	BD

Revisions:

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Sheet Title:
GENERAL STRUCTURAL DETAILS

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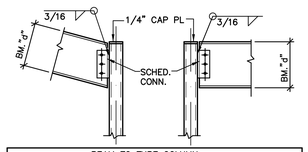
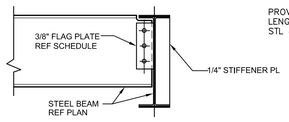


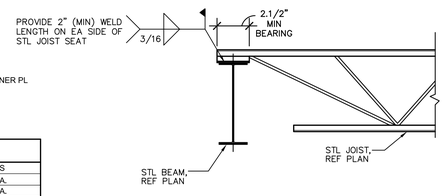
BEAM TO TUBE COLUMN CONNECTION SCHEDULE		
BEAM SIZE	PL SIZE	BOLTS
W8 & W10	PL 3/8x3.1/2x0'-6"	2-3/4"DIA.
W12 & W14	PL 3/8x3.1/2x0'-9"	3-3/4"DIA.
W16	PL 3/8x3.1/2x1'-0"	4-3/4"DIA.
W18	PL 3/8x3.1/2x1'-3"	5-3/4"DIA.
W21	PL 3/8x3.1/2x1'-6"	6-3/4"DIA.
W24	PL 3/8x3.1/2x1'-9"	7-3/4"DIA.

1 TYPICAL BEAM TO COLUMN CONNECTION

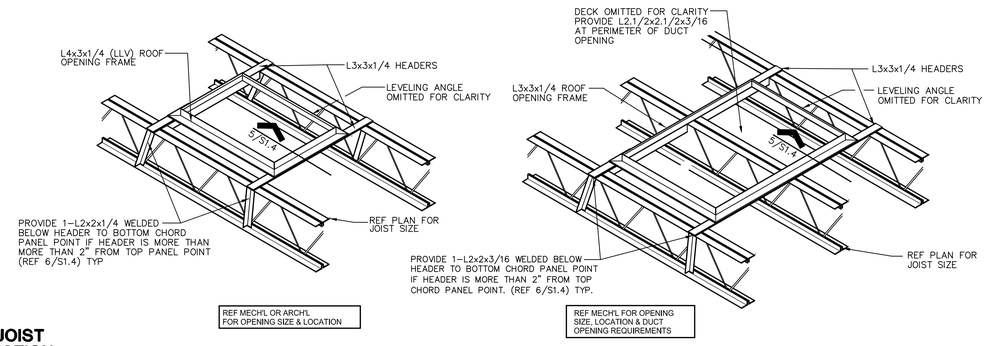


BEAM TO BEAM CONNECTION SCHEDULE		
BEAM SIZE	PL SIZE	BOLTS
W8 & W10	PL 3/8x3.1/2x0'-6"	2-3/4"DIA.
W12 & W14	PL 3/8x3.1/2x0'-9"	3-3/4"DIA.
W16	PL 3/8x3.1/2x1'-0"	4-3/4"DIA.
W18	PL 3/8x3.1/2x1'-3"	5-3/4"DIA.
W21	PL 3/8x3.1/2x1'-6"	6-3/4"DIA.

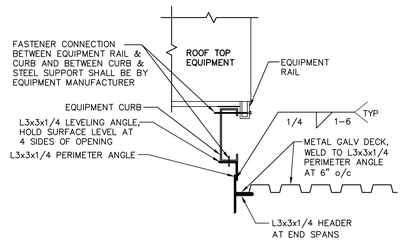
2 TYPICAL BEAM TO BEAM CONNECTION



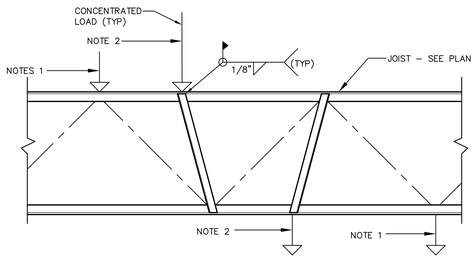
3 TYPICAL WELD LENGTH ON STL JOIST TO STL BEAM/STL PLATE CONNECTION



4 ROOF OPENING FRAME DETAIL



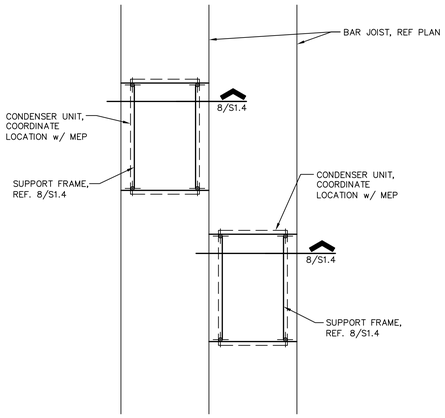
5 EQUIPMENT SUPPORT FRAME



6 TYP. CONCENTRATED LOAD DETAIL

NOTES:

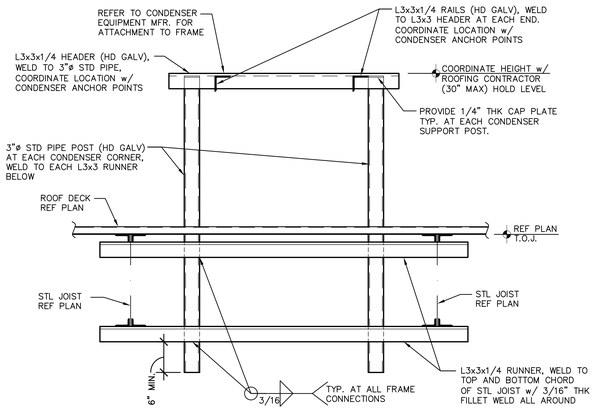
1. CONCENTRATED LOAD LOCATED AT JOIST PANEL POINT LOCATION - NO ADDTIONAL ANGLES REQUIRED.
2. CONCENTRATED LOAD (100 LBS. OR HEAVIER) NOT LOCATED AT JOIST PANEL POINT LOCATION - PROVIDE L2x2x1/4 TO PANEL POINT AS SHOWN.



7 TYPICAL ROOF MOUNTED CONDENSER SUPPORT FRAMING PLAN

NOTES:

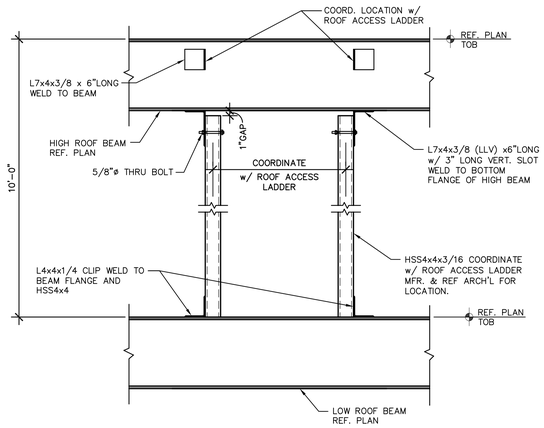
1. COORDINATE LOCATION AND ORIENTATION WITH MEP AND ARCHITECTURAL.



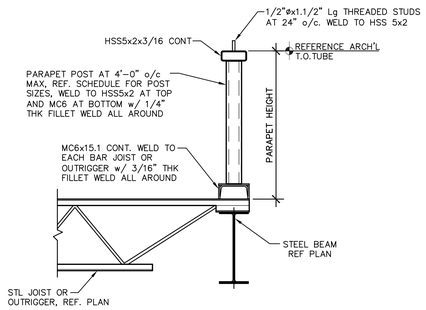
8

NOTE:

1. COORDINATE LOCATION OF SUPPORT FRAME WITH MEP & EQUIPMENT MANUFACTURER.
2. REFERENCE 7/S1.4 FOR TYPICAL CONDENSER UNIT SUPPORT FRAMING PLAN.



9 TYPICAL ROOF ACCESS LADDER SUPPORT FRAMING

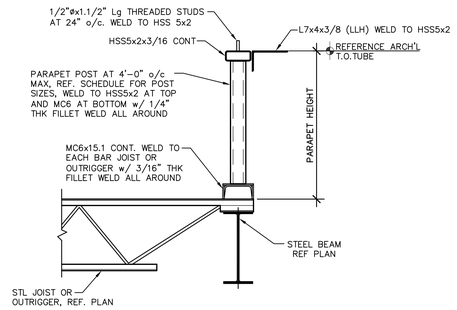


10 TYPICAL PARAPET WALL ASSEMBLY DETAIL

PARAPET POST SCHEDULE

PARAPET HEIGHT	POST SIZE
0-2 FT	HSS3.1/2x3.1/2x1/4
2 FT-4 FT	HSS4x4x1/4
4 FT-6 FT *	HSS5x5x1/4

* FOR POST HEIGHTS GREATER THAN 5 FT, POST SPACING SHALL BE REDUCED TO 3'-0" o/c MAX.



11 TYPICAL PARAPET WALL ASSEMBLY DETAIL AT BRICK FINISH

PARAPET POST SCHEDULE

PARAPET HEIGHT	POST SIZE
0-2 FT	HSS3.1/2x3.1/2x1/4
2 FT-4 FT	HSS4x4x1/4
4 FT-6 FT *	HSS5x5x1/4

* FOR POST HEIGHTS GREATER THAN 5 FT, POST SPACING SHALL BE REDUCED TO 3'-0" o/c MAX.

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HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

Project Number:	696-258
Drawing Date:	06/29/2026
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Sheet Title:
GENERAL STRUCTURAL DETAILS

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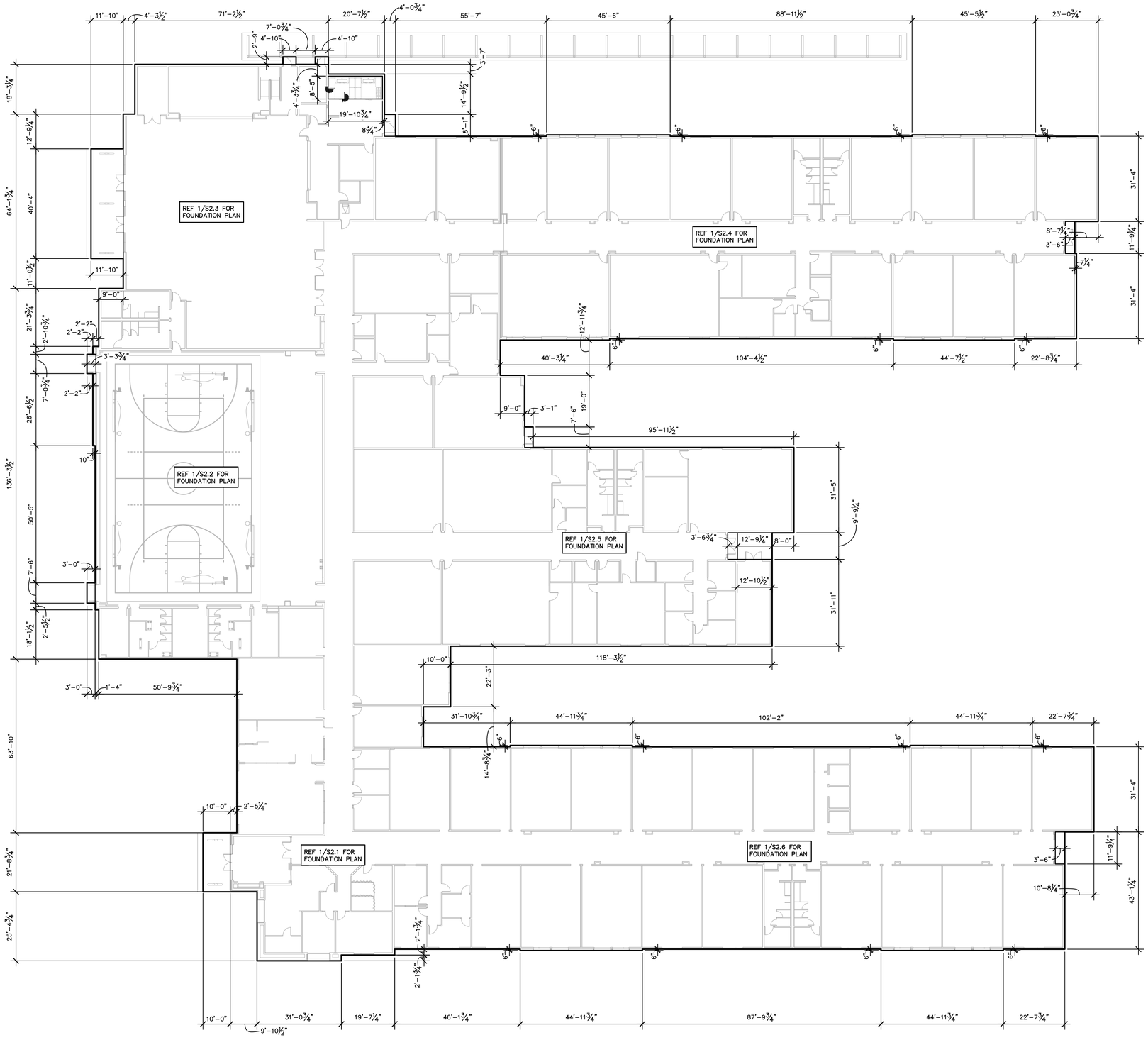

1 DIMENSION CONTROL PLAN

1/16" = 1'-0"

N

PLAN NORTH

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SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
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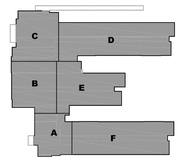

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DIMENSION CONTROL PLAN

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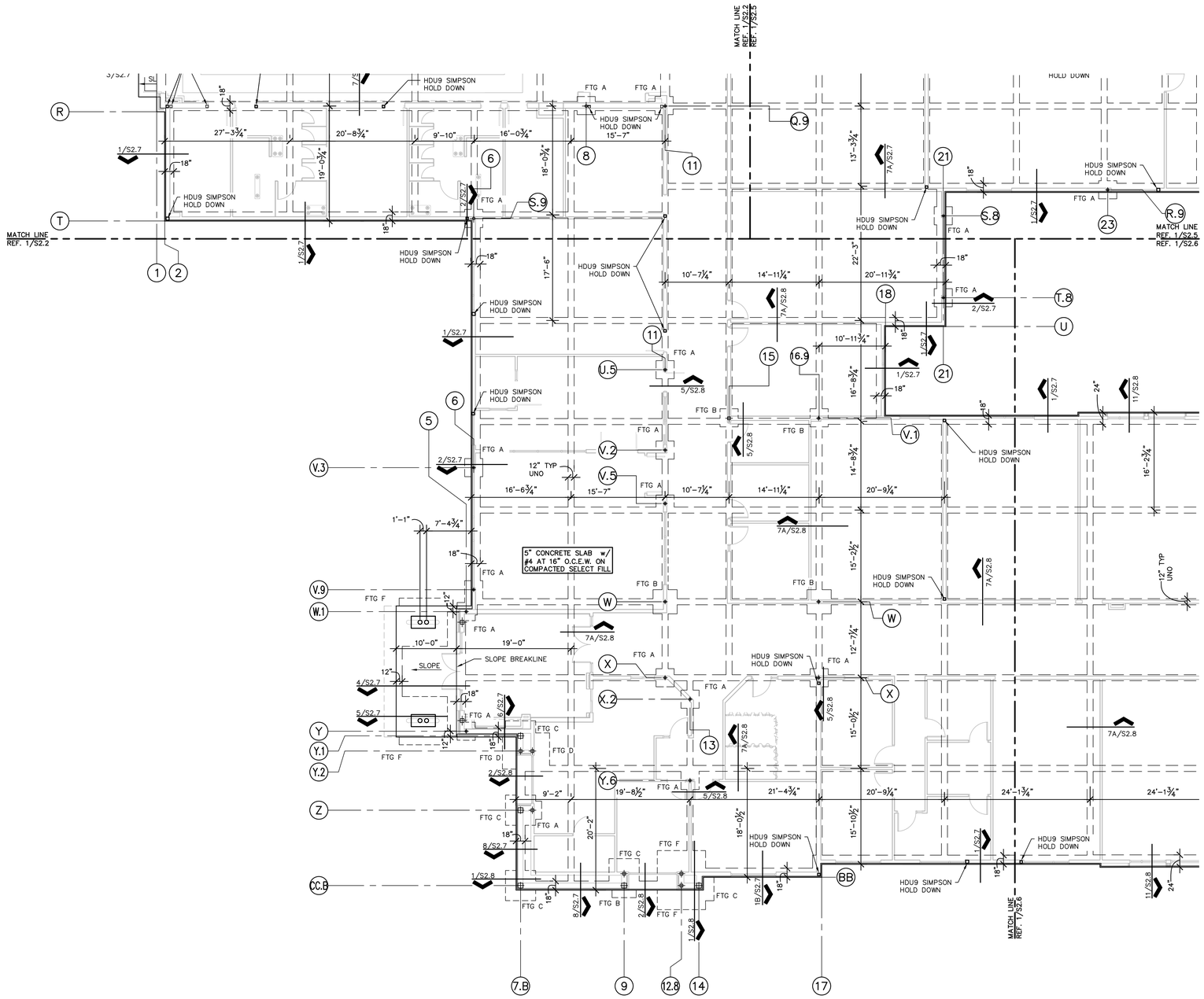

1 PARTIAL FOUNDATION PLAN

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

N

PLAN NORTH

NOTES:

1. REFERENCE ROOF FRAMING PLAN FOR COLUMN AB/ BASEPLATE LOCATIONS. FOUNDATION PLAN DIMENSIONS GENERALLY DENOTE GRADE BEAM CENTERLINE AND OUTSIDE FACE OF CONCRETE.
2. ALL CONDUIT SHALL BE PLACED BELOW THE FINISHED GRADE ELEVATION. DO NOT LAY ANY CONDUIT IN SLAB.
3. MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
4. A SINGLE CONDUIT (MAX 3" O.D.) MAY BE PLACED WITHIN THE BEAM CAGE. ALL CONDUIT IN BEAM CAGES TO BE TIED TO STIRRUPS MINIMUM OF 4" FROM HORIZONTAL BARS.
5. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
6. PLUMBING LINES PASSING THROUGH GRADE BEAMS SHALL BE SLEEVED. BEAMS SHALL BE DEEPENED AND BENT REBAR PROVIDED IF LOCATION OF DRAIN LINES REQUIRES CUTTING BOTTOM BARS. REFERENCE 4/S2.8
7. ALL JOINTS TO BE CLEANED AND FILLED w/ SONOLASTIC SL1 (SONNEBORN).
8. REFERENCE 1/S2.0 FOR FOUNDATION LIMITS PLAN SHOWING OVERALL BUILDING CORNER DIMENSION STRINGS.
9. PLACE BASEPLATES FOR WIND COLUMNS AND DIAGONAL BRACES FLUSH WITH FINISH FLOOR.

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT
FTG A	3'-0" x 3'-0"	#5 AT 12" O.C.E.W.
FTG B	4'-0" x 4'-0"	#5 AT 12" O.C.E.W.
FTG C	5'-0" x 5'-0"	#5 AT 12" O.C.E.W.
FTG D	6'-0" x 6'-0"	#5 AT 12" O.C.E.W.
FTG E	7'-0" x 7'-0"	#5 AT 12" O.C.E.W.
FTG F	8'-0" x 8'-0"	#5 AT 12" O.C.E.W.

BASEPLATE SCHEDULE

COLUMN	PLATE TxWxL	ANCHORS
HSS3.1/2 x 3.1/2	1/2 x 8 x 8	4-3/4" DIA x 8" WHS
HSS4 x 4	1 x 10 x 10	4-3/4" DIA x 8" WHS
HSS5 x 5	1 x 10 x 10	4-3/4" DIA x 8" WHS
HSS6 x 6	1 x 10 x 10	4-3/4" DIA x 8" WHS
HSS8 x 8	1 x 12 x 12	4-3/4" DIA x 8" WHS
HSS10 x 10	1 x 14 x 14	4-3/4" DIA x 8" WHS
5" DIA STD PIPE	3/4 x 9 x 9	4-3/4" DIA x 8" WHS
6" DIA STD PIPE	1 x 10 x 10	4-3/4" DIA x 8" WHS

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SCIENCE ACADEMY HS/MS
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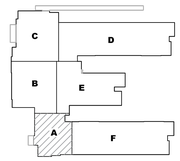
TEXAS 77379



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No.	Description	Date

Sheet Title:
PARTIAL FOUNDATION PLAN AREA A

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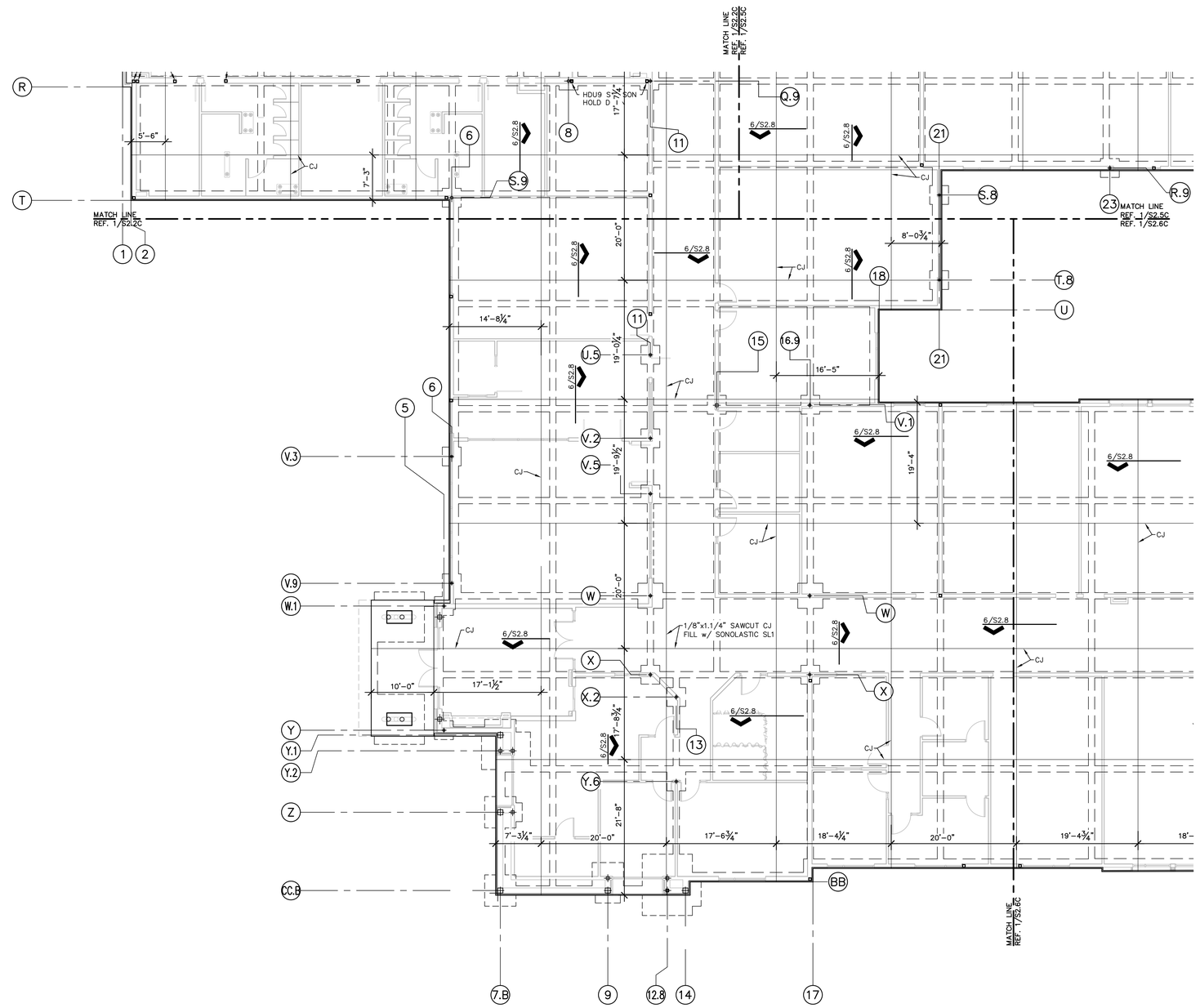

1 PARTIAL CONTROL JOINT PLAN

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

N

PLAN NORTH

NOTES:

1. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
2. ALL JOINTS TO BE CLEANED AND FILLED WITH SONOLASTIC SL1 (SONNEBORN). REFERENCE 6/S2.8
3. REFERENCE 1/S2.1 FOR ADDITIONAL FOUNDATION NOTES REFERENCES.

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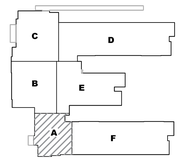

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PARTIAL CONTROL JOINT PLAN AREA A

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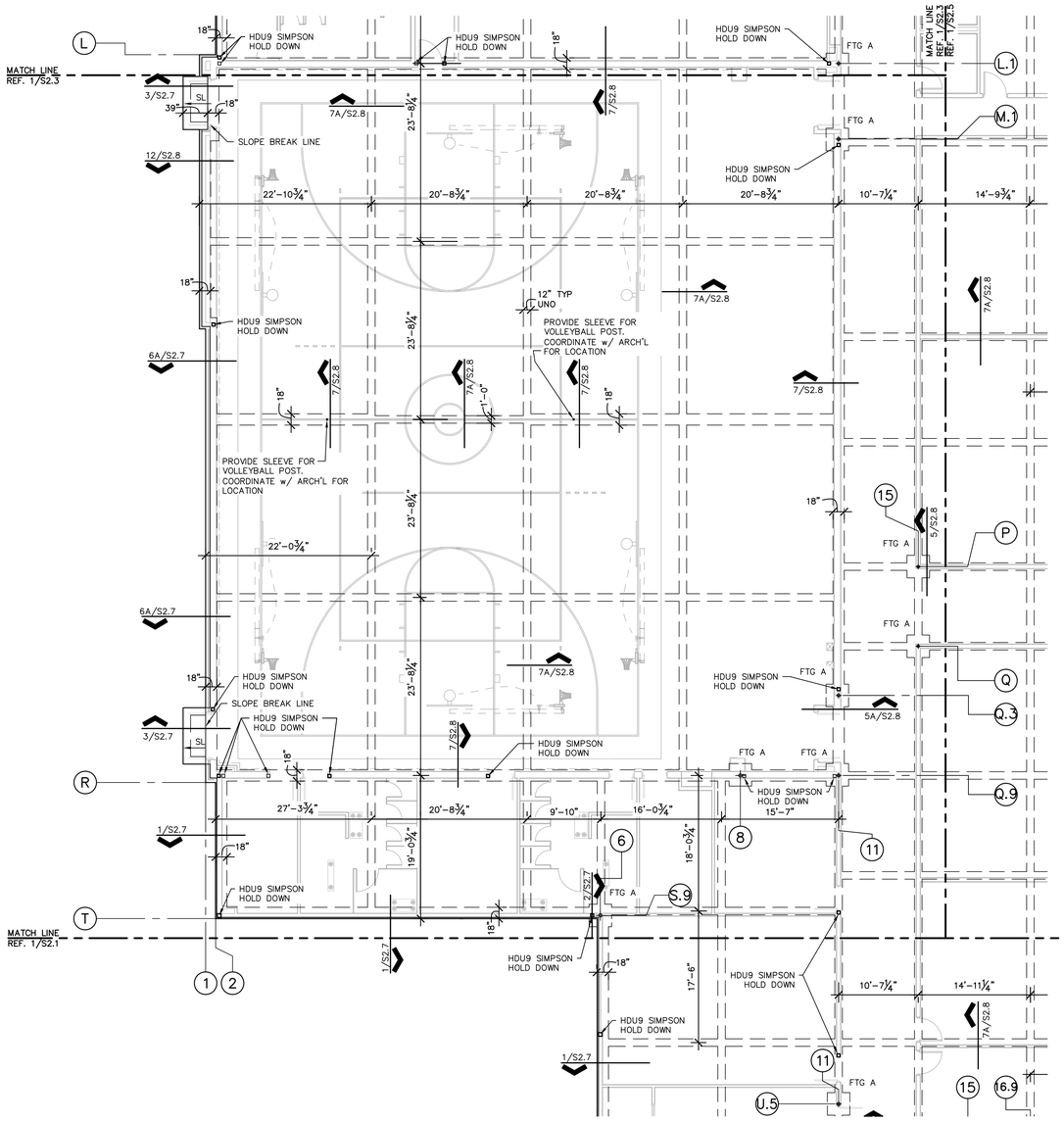

1 PARTIAL FOUNDATION PLAN

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

N

PLAN NORTH

NOTES:

1. REFERENCE ROOF FRAMING PLAN FOR COLUMN AB/ BASEPLATE LOCATIONS. FOUNDATION PLAN DIMENSIONS GENERALLY DENOTE GRADE BEAM CENTERLINE AND OUTSIDE FACE OF CONCRETE.
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FTG C	5'-0" x 5'-0"	#5 AT 12" O.C.E.W.
FTG D	6'-0" x 6'-0"	#5 AT 12" O.C.E.W.
FTG E	7'-0" x 7'-0"	#5 AT 12" O.C.E.W.
FTG F	8'-0" x 8'-0"	#5 AT 12" O.C.E.W.

BASEPLATE SCHEDULE

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HSS8 x 8	1 x 12 x 12	4-3/4" DIA x 8" WHS
HSS10 x 10	1 x 14 x 14	4-3/4" DIA x 8" WHS
5" DIA STD PIPE	3/4 x 9 x 9	4-3/4" DIA x 8" WHS
6" DIA STD PIPE	1 x 10 x 10	4-3/4" DIA x 8" WHS

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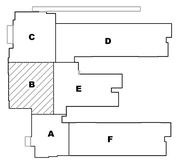
STATE OF TEXAS
ROLANDO R. RUBIANO
88369
LICENSED
PROFESSIONAL ENGINEER
6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026

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Checked: BD

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL FOUNDATION PLAN AREA B

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FIRM REGISTRATION # F-4145

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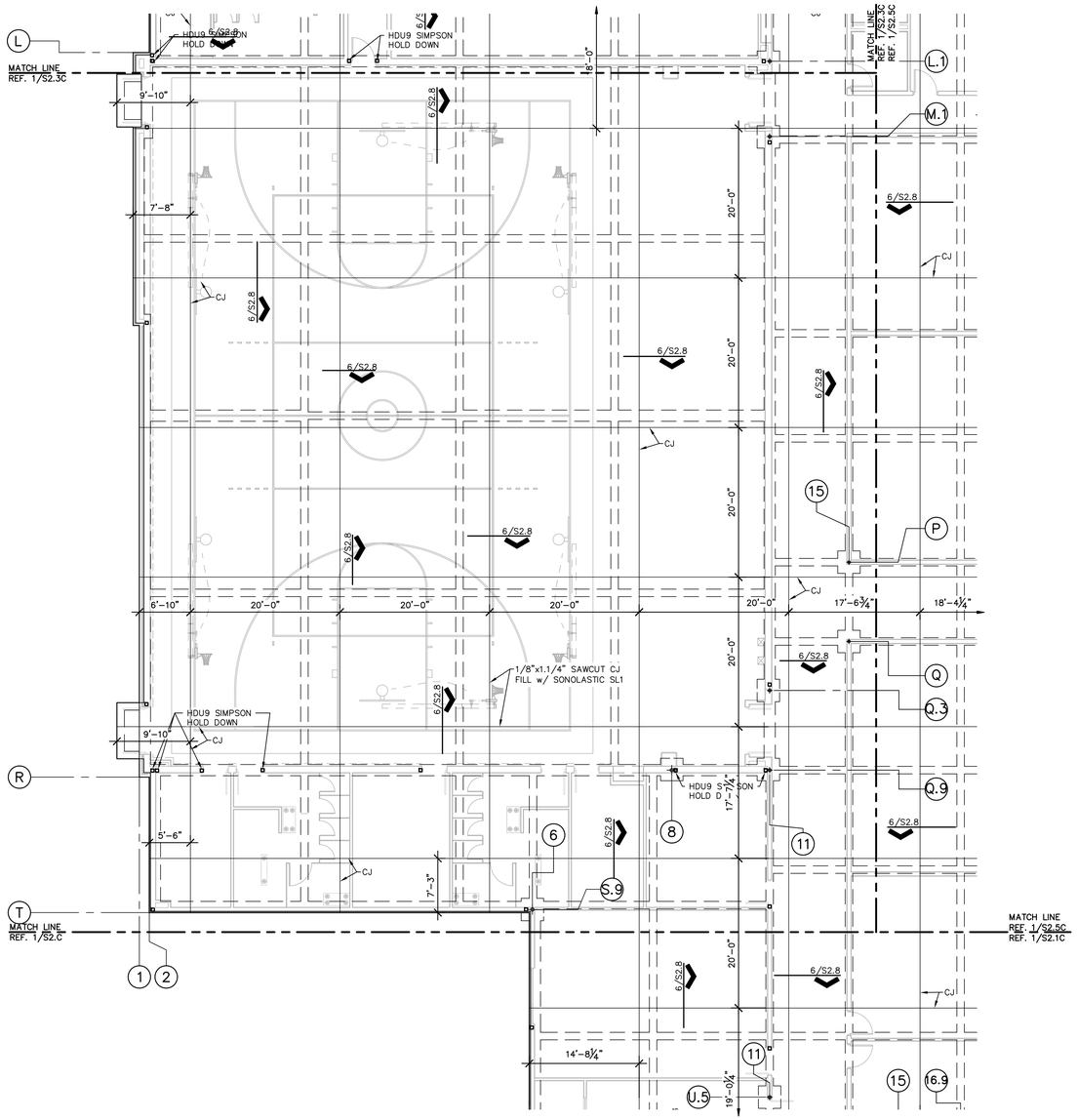

1 PARTIAL CONTROL JOINT PLAN

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

N

PLAN NORTH

NOTES:

1. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
2. ALL JOINTS TO BE CLEAN AND FILLED WITH SONOLASTIC SL1 (SONNEBORN). REFERENCE 6/S2.8
3. REFERENCE 1/S2.2 FOR ADDITIONAL FOUNDATION NOTES REFERENCES.

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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER
6/29/2026

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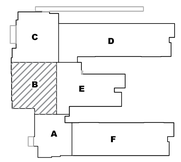

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Sheet Title:

PARTIAL CONTROL JOINT PLAN AREA B

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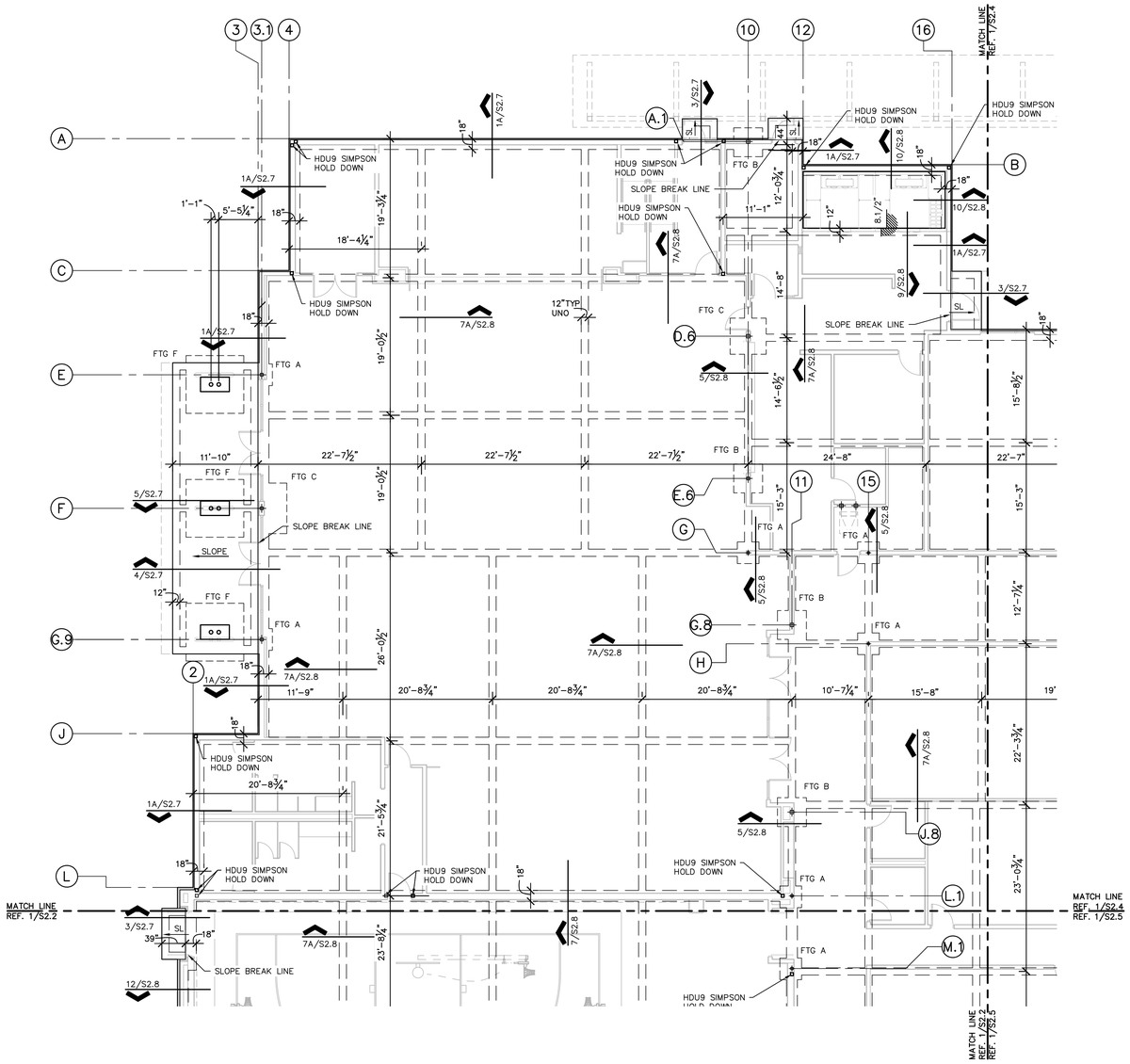

1 PARTIAL FOUNDATION PLAN

1/8" = 1'–0" AREA C

N

PLAN NORTH

NOTES:

1. REFERENCE ROOF FRAMING PLAN FOR COLUMN AB/ BASEPLATE LOCATIONS. FOUNDATION PLAN DIMENSIONS GENERALLY DENOTE GRADE BEAM CENTERLINE AND OUTSIDE FACE OF CONCRETE.
2. ALL CONDUIT SHALL BE PLACED BELOW THE FINISHED GRADE ELEVATION. DO NOT LAY ANY CONDUIT IN SLAB.
3. MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
4. A SINGLE CONDUIT (MAX 3" O.D.) MAY BE PLACED WITHIN THE BEAM CAGE. ALL CONDUIT IN BEAM CAGES TO BE TIED TO STIRRUPS MINIMUM OF 4" FROM HORIZONTAL BARS.
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6. PLUMBING LINES PASSING THROUGH GRADE BEAMS SHALL BE SLEEVED. BEAMS SHALL BE DEEPENED AND BENT REBAR PROVIDED IF LOCATION OF DRAIN LINES REQUIRES CUTTING BOTTOM BARS. REFERENCE 4/S2.8
7. ALL JOINTS TO BE CLEANED AND FILLED w/ SONOLASTIC SL1 (SONNEBORN).
8. REFERENCE 1/S2.0 FOR FOUNDATION LIMITS PLAN SHOWING OVERALL BUILDING CORNER DIMENSION STRINGS.
9. PLACE BASEPLATES FOR WIND COLUMNS AND DIAGONAL BRACES FLUSH WITH FINISH FLOOR.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
FTG A	3'–0" x 3'–0"	#5 AT 12" O.C.E.W.
FTG B	4'–0" x 4'–0"	#5 AT 12" O.C.E.W.
FTG C	5'–0" x 5'–0"	#5 AT 12" O.C.E.W.
FTG D	6'–0" x 6'–0"	#5 AT 12" O.C.E.W.
FTG E	7'–0" x 7'–0"	#5 AT 12" O.C.E.W.
FTG F	8'–0" x 8'–0"	#5 AT 12" O.C.E.W.

BASEPLATE SCHEDULE		
COLUMN	PLATE TxWxL	ANCHORS
HSS3.1/2 x 3.1/2	1/2 x 8 x 8	4–3/4" DIA x 8" WHS
HSS4 x 4	1 x 10 x 10	4–3/4" DIA x 8" WHS
HSS5 x 5	1 x 10 x 10	4–3/4" DIA x 8" WHS
HSS6 x 6	1 x 10 x 10	4–3/4" DIA x 8" WHS
HSS8 x 8	1 x 12 x 12	4–3/4" DIA x 8" WHS
HSS10 x 10	1 x 14 x 14	4–3/4" DIA x 8" WHS
5" DIA STD PIPE	3/4 x 9 x 9	4–3/4" DIA x 8" WHS
6" DIA STD PIPE	1 x 10 x 10	4–3/4" DIA x 8" WHS

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6/29/2026

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HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
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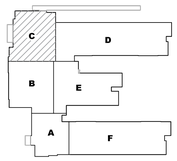


KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026

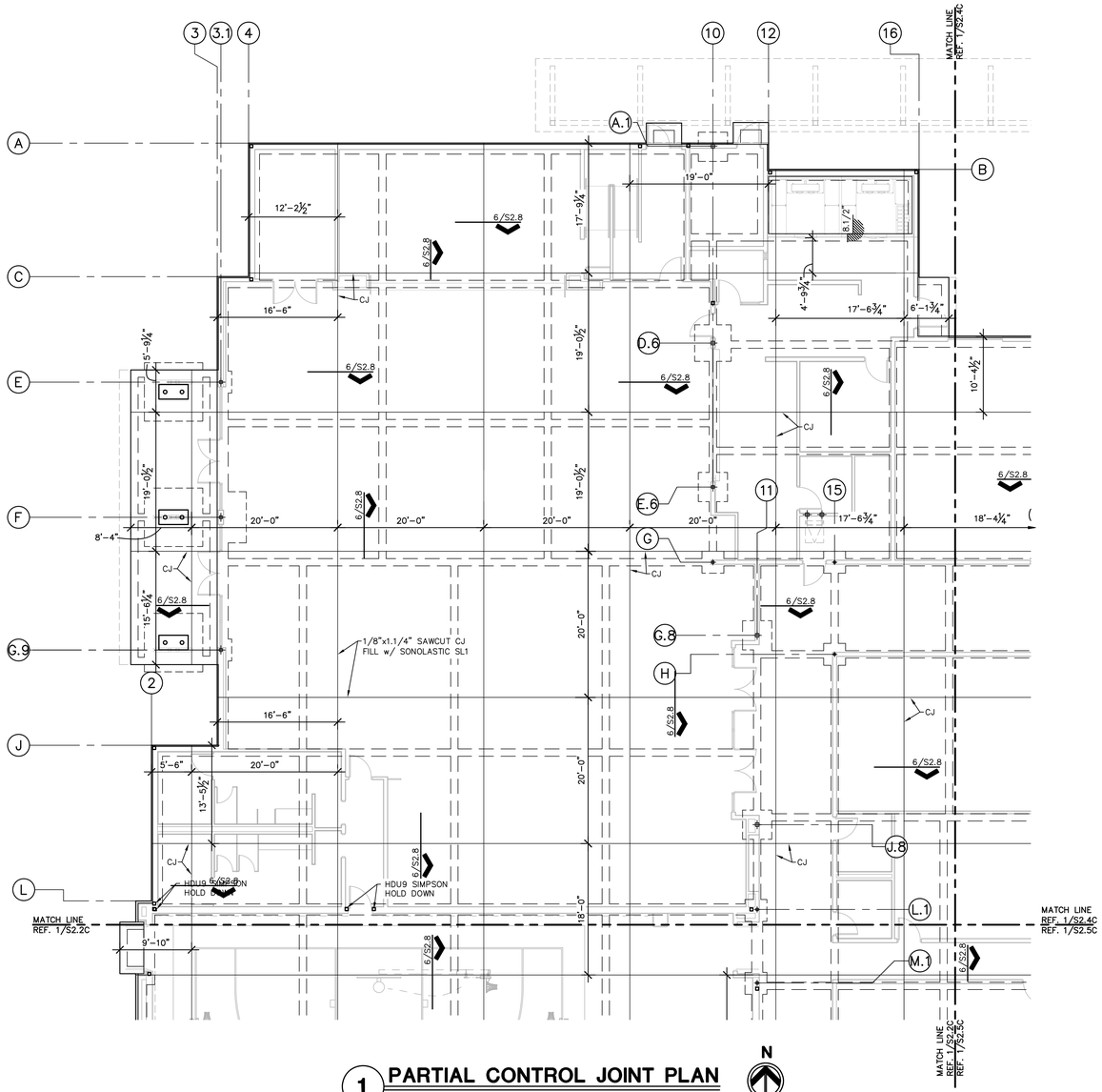
Drawn: DM, DC, HR
Checked: BD

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL FOUNDATION PLAN AREA C

S2.3



1 PARTIAL CONTROL JOINT PLAN

1/8" = 1'-0" AREA C

N
PLAN NORTH

NOTES:

1. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
2. ALL JOINTS TO BE CLEAN AND FILLED WITH SONOLASTIC SL1 (SONNEBORN). REFERENCE 6/S2.8
3. REFERENCE 1/S2.3 FOR ADDITIONAL FOUNDATION NOTES REFERENCES.

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6/29/2026

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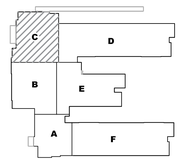
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
Drawn: DM, DC, HR
Checked: BD

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL CONTROL JOINT PLAN AREA C

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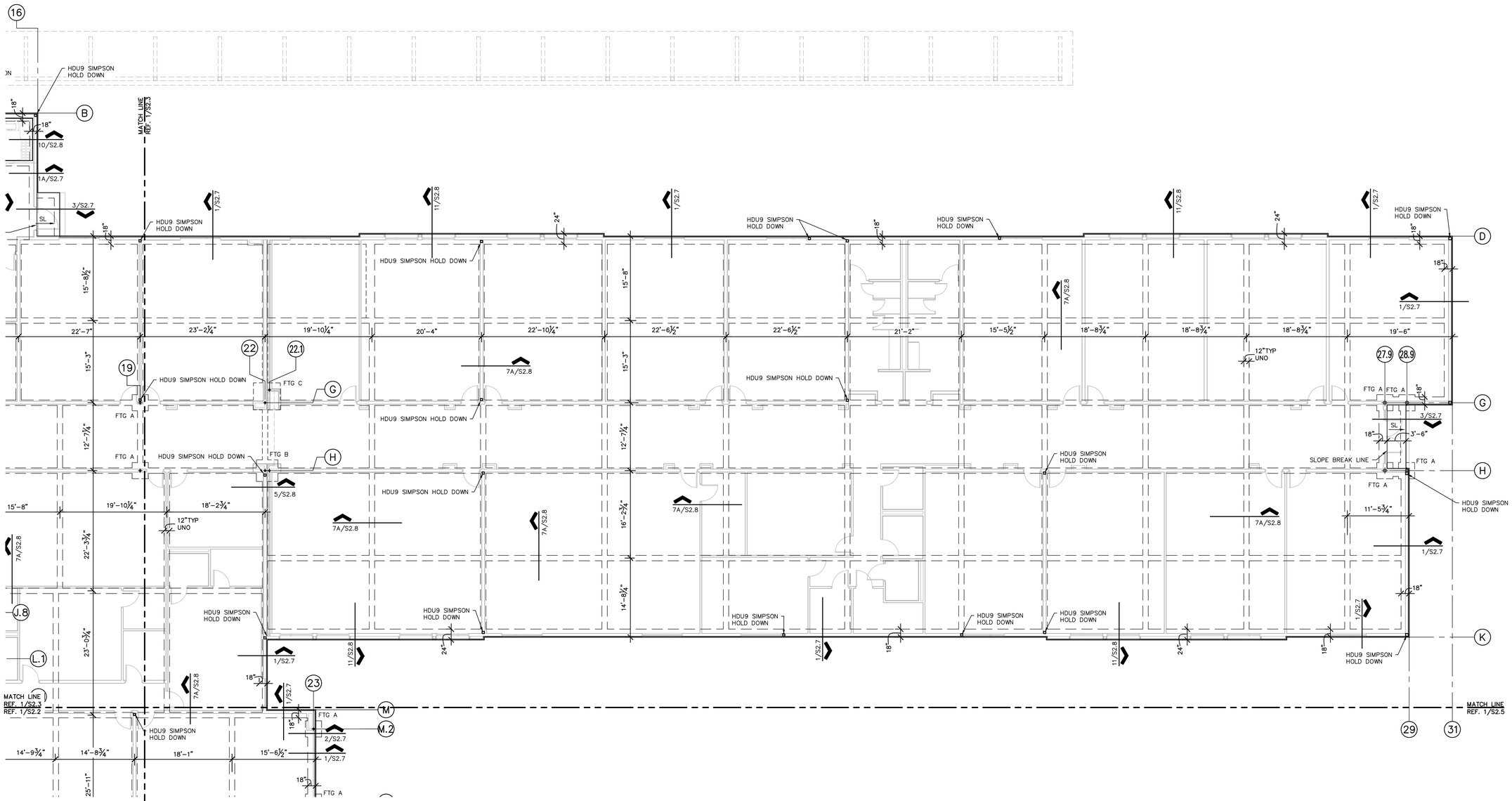

1 PARTIAL FOUNDATION PLAN

1/8" = 1'-0" AREA D

N

PLAN NORTH

NOTES:

1. REFERENCE ROOF FRAMING PLAN FOR COLUMN AB/ BASEPLATE LOCATIONS. FOUNDATION PLAN DIMENSIONS GENERALLY DENOTE GRADE BEAM CENTERLINE AND OUTSIDE FACE OF CONCRETE.
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FTG B	4'-0" x 4'-0"	#5 AT 12" O.C.E.W.
FTG C	5'-0" x 5'-0"	#5 AT 12" O.C.E.W.
FTG D	6'-0" x 6'-0"	#5 AT 12" O.C.E.W.
FTG E	7'-0" x 7'-0"	#5 AT 12" O.C.E.W.
FTG F	8'-0" x 4'-0"	#5 AT 12" O.C.E.W.

BASEPLATE SCHEDULE		
COLUMN	PLATE TxWxL	ANCHORS
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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED — PROFESSIONAL ENGINEER
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HARMONY PUBLIC SCHOOLS

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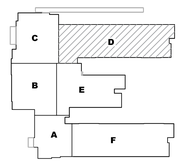

KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
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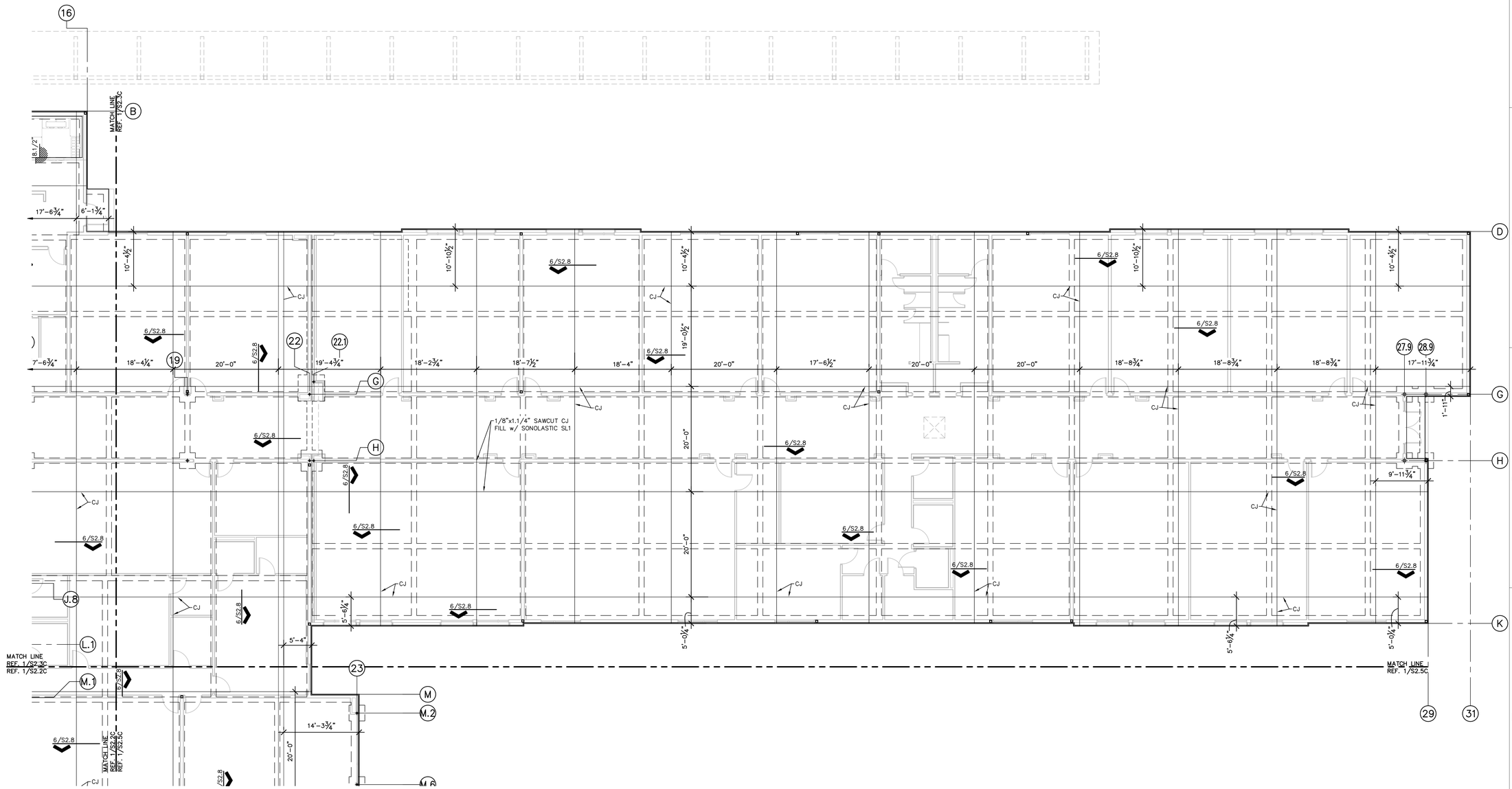
Revisions:

No.	Description	Date

Sheet Title:
PARTIAL FOUNDATION PLAN AREA D

S2.4



1 PARTIAL CONTROL JOINT PLAN

1/8" = 1'-0" AREA D

N

PLAN NORTH

NOTES:

1. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
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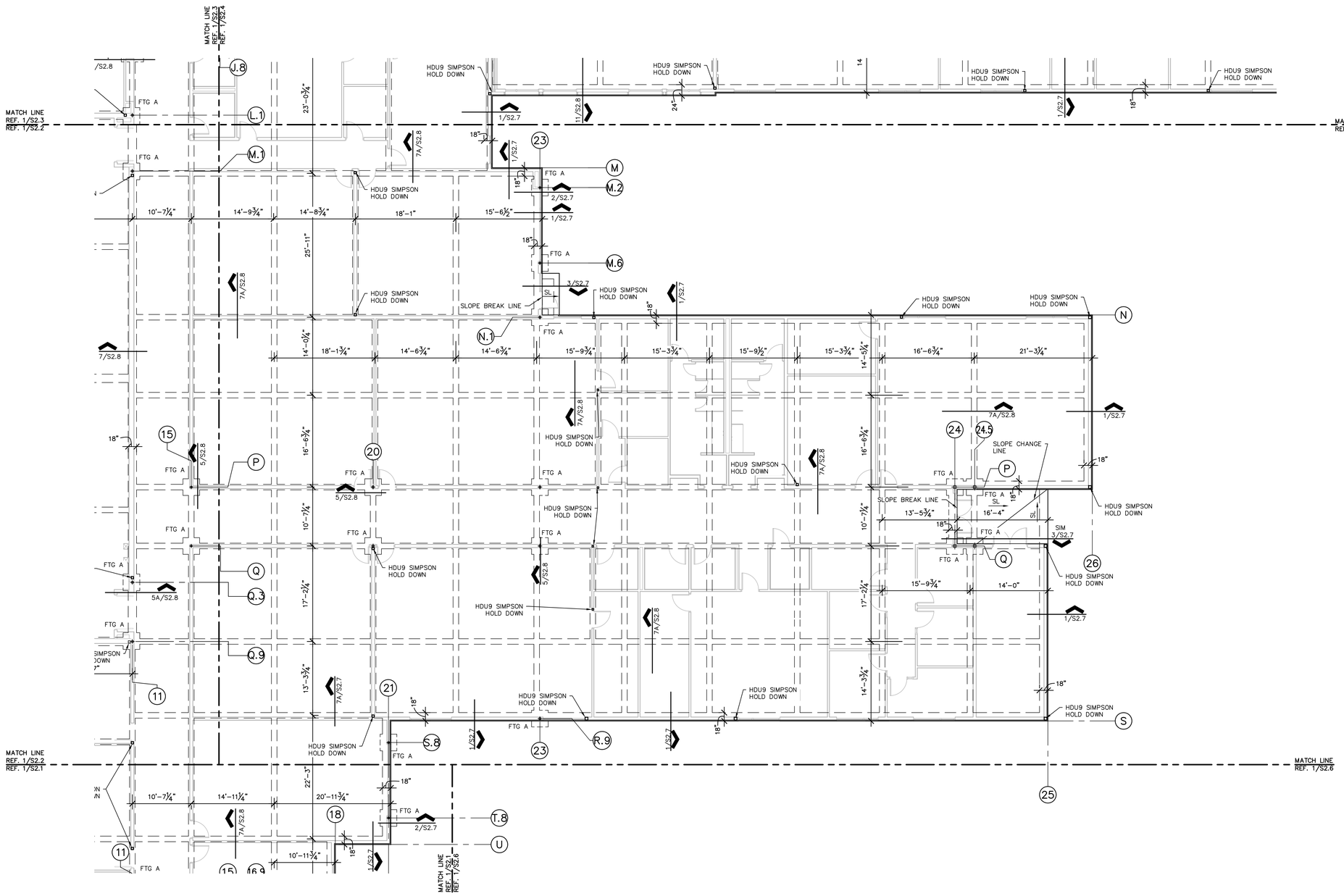

1 PARTIAL FOUNDATION PLAN

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

N

PLAN NORTH

NOTES:

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5. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
6. PLUMBING LINES PASSING THROUGH GRADE BEAMS SHALL BE SLEEVED. BEAMS SHALL BE DEEPENED AND BENT REBAR PROVIDED IF LOCATION OF DRAIN LINES REQUIRES CUTTING BOTTOM BARS. REFERENCE 4/S2.8
7. ALL JOINTS TO BE CLEANED AND FILLED w/ SONOLASTIC SL1 (SONNEBORN).
8. REFERENCE 1/S2.0 FOR FOUNDATION LIMITS PLAN SHOWING OVERALL BUILDING CORNER DIMENSION STRINGS.
9. PLACE BASEPLATES FOR WIND COLUMNS AND DIAGONAL BRACES FLUSH WITH FINISH FLOOR.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
FTG A	3'-0" x 3'-0	#5 AT 12" O.C.E.W.
FTG B	4'-0" x 4'-0"	#5 AT 12" O.C.E.W.
FTG C	5'-0" x 5'-0"	#5 AT 12" O.C.E.W.
FTG D	6'-0" x 6'-0"	#5 AT 12" O.C.E.W.
FTG E	7'-0" x 7'-0"	#5 AT 12" O.C.E.W.
FTG F	8'-0" x 4'-0"	#5 AT 12" O.C.E.W.

BASEPLATE SCHEDULE		
COLUMN	PLATE TxWxL	ANCHORS
HSS3.1/2 x 3.1/2	1/2 x 8 x 8	4-3/4" DIA x 8" WHS
HSS4 x 4	1 x 10 x 10	4-3/4" DIA x 8" WHS
HSS5 x 5	1 x 10 x 10	4-3/4" DIA x 8" WHS
HSS6 x 6	1 x 10 x 10	4-3/4" DIA x 8" WHS
HSS8 x 8	1 x 12 x 12	4-3/4" DIA x 8" WHS
HSS10 x 10	1 x 14 x 14	4-3/4" DIA x 8" WHS
5" DIA STD PIPE	3/4 x 9 x 9	4-3/4" DIA x 8" WHS
6" DIA STD PIPE	1 x 10 x 10	4-3/4" DIA x 8" WHS

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FOOD SERVICE DESIGN:
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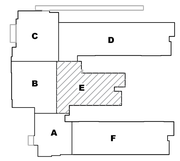
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026

Drawn: DM, DC, HR
Checked: BD

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL FOUNDATION PLAN AREA E

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FIRM REGISTRATION # F-4145

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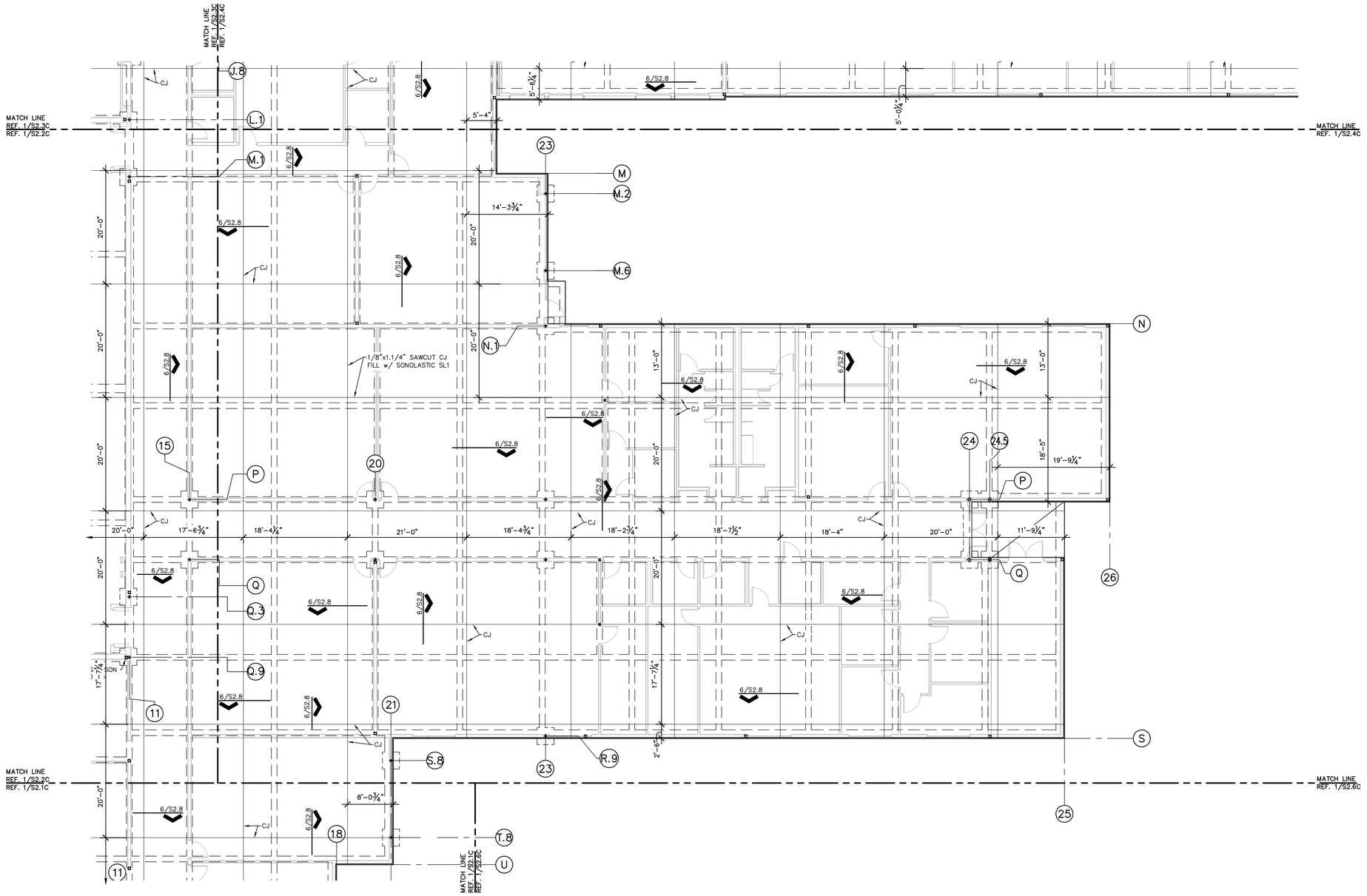
S2.5



1 PARTIAL CONTROL JOINT PLAN

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

N
PLAN NORTH

NOTES:

1. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
2. ALL JOINTS TO BE CLEAN AND FILLED WITH SONOLASTIC SL1 (SONNEBORN). REFERENCE 6/S2.8
3. REFERENCE 1/S2.5 FOR ADDITIONAL FOUNDATION NOTES REFERENCES.

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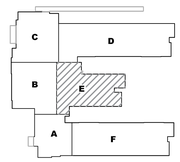

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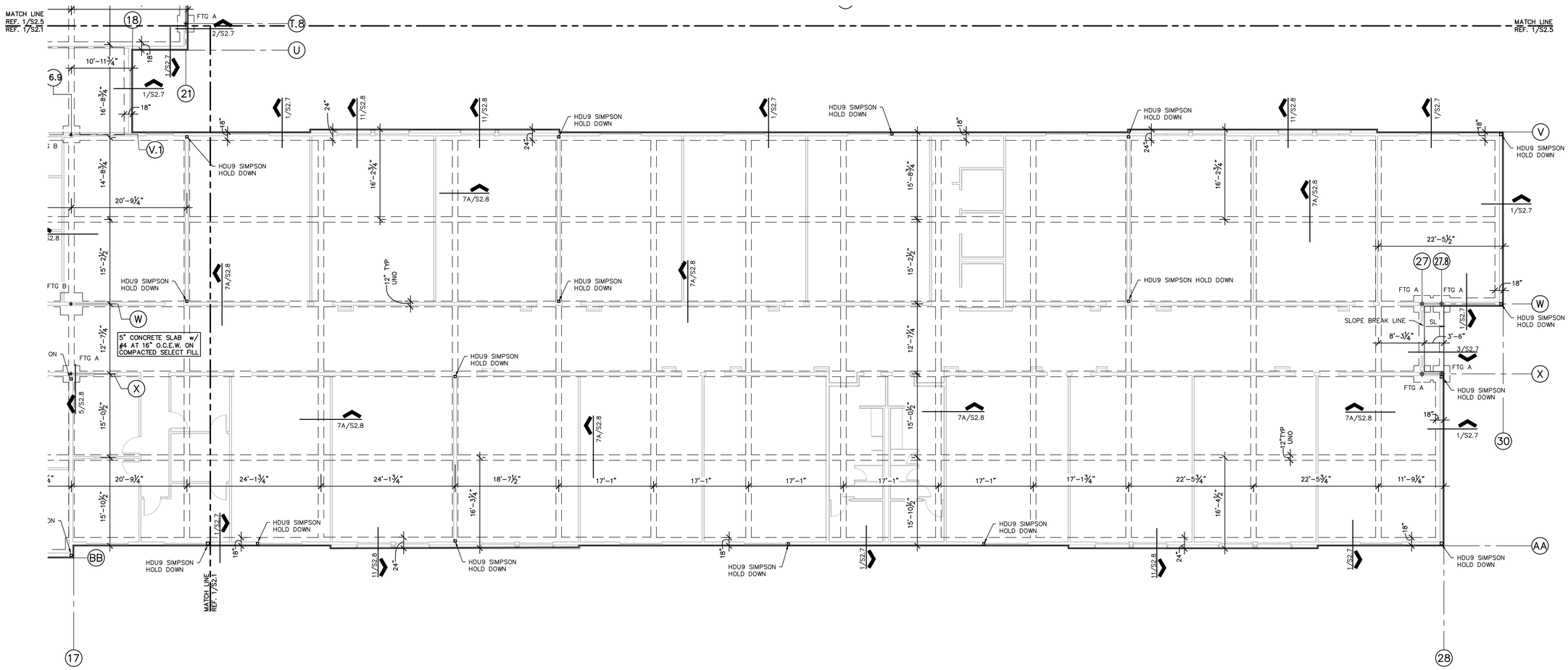

1 PARTIAL FOUNDATION PLAN

1/8" = 1'-0" AREA F

N
PLAN NORTH

NOTES:

1. REFERENCE ROOF FRAMING PLAN FOR COLUMN AB/ BASEPLATE LOCATIONS. FOUNDATION PLAN DIMENSIONS GENERALLY DENOTE GRADE BEAM CENTERLINE AND OUTSIDE FACE OF CONCRETE.
2. ALL CONDUIT SHALL BE PLACED BELOW THE FINISHED GRADE ELEVATION. DO NOT LAY ANY CONDUIT IN SLAB.
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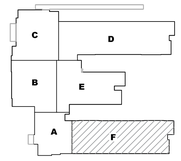

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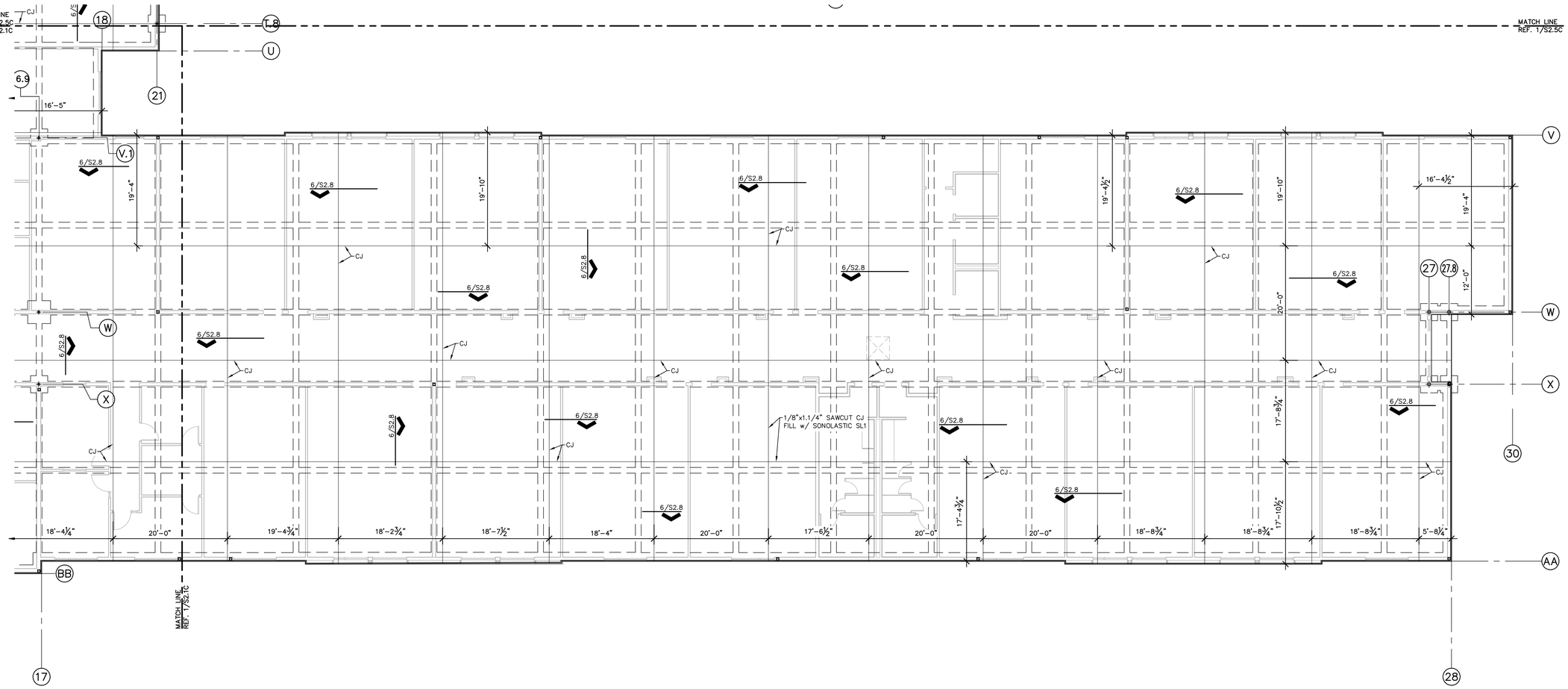
Sheet Title:
PARTIAL FOUNDATION PLAN AREA F

S2.6



1 PARTIAL CONTROL JOINT PLAN

1/8" = 1'-0" AREA F

N
PLAN NORTH

NOTES:

1. CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
2. ALL JOINTS TO BE CLEAN AND FILLED WITH SONOLASTIC SL1 (SONNEBORN). REFERENCE 6/S2.8
3. REFERENCE 1/S2.6 FOR ADDITIONAL FOUNDATION NOTES REFERENCES.

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CITY PLACE
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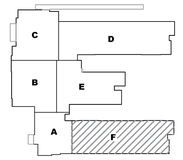

KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
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Revisions:

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Sheet Title:
PARTIAL CONTROL JOINT PLAN AREA F

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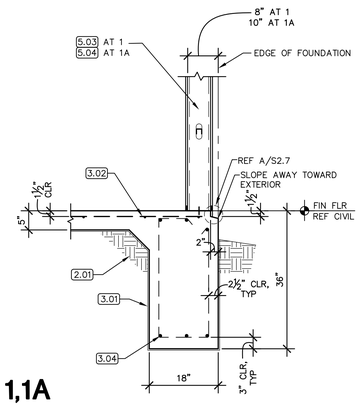

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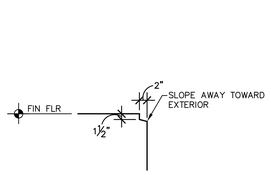
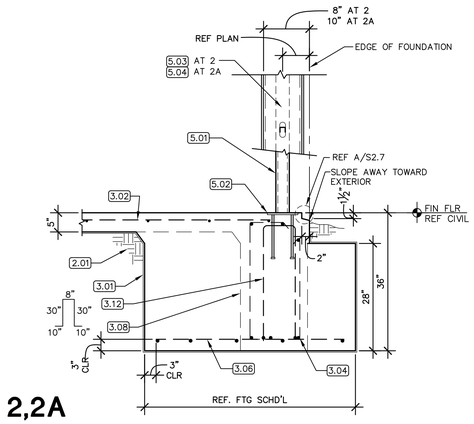


A ENLARGED EIFS LEDGE DETAIL



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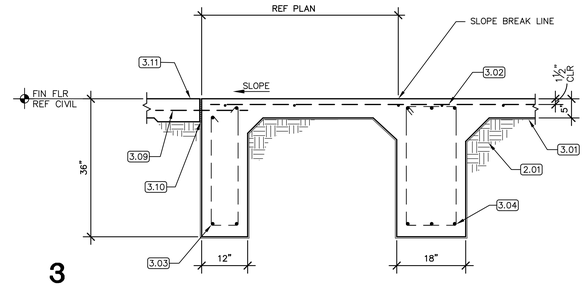

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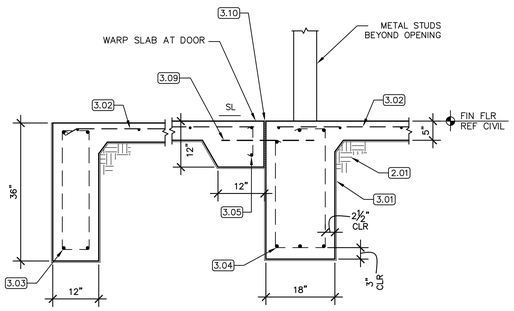

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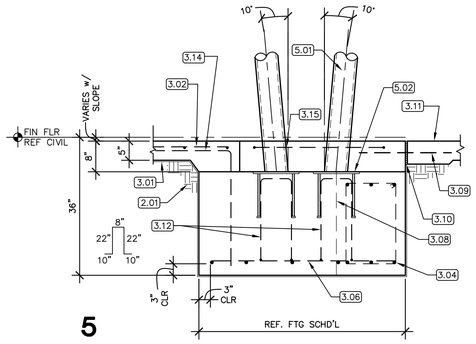

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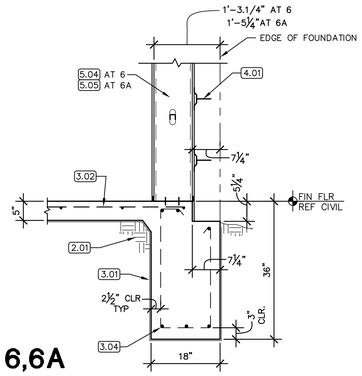

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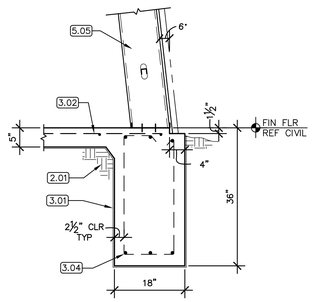

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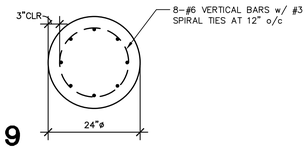

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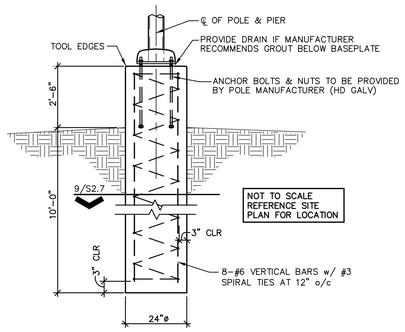

NOTES:

1. LIGHT POLE FOUNDATION WAS DESIGNED BASED ON PRESSURES CALCULATED FROM ASCE 7-16 REQUIREMENTS FOR 138 MPH WIND, RISK CATEGORY I AND EXPOSURE FACTOR B.
2. FOUNDATION DESIGN IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, AND IS BASED ON THE GEOTECHNICAL REPORT REFERENCE SHEET S1.1 FOR ADDITIONAL INFORMATION.

   LATERAL BEARING CAPACITY (BELOW 2FT) ..... 500 PCF
3. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 4,000 PSI AT 28 DAYS, A WATER/CEMENT RATIO NOT TO EXCEED 0.6 AND A MAXIMUM SLUMP OF 7 INCHES.

10 TYPICAL LIGHT POLE FOUNDATION DETAIL

KEY NOTES

DIVISION 2 EARTH WORK

2.01 COMPACTED SELECT FILL.

DIVISION 3 CONCRETE

3.01 10 MIL POLYETHYLENE VAPOR BARRIER.

3.02 #4 AT 16" OCEW.

3.03 2-#7 TOP & BOTTOM w/ #3 STIRRUPS AT 24" o/c.

3.04 3-#7 TOP & BOTTOM w/ #3 STIRRUPS AT 24" o/c.

3.05 1-#5 CONTINUOUS w/ #3 STIRRUPS AT 18" o/c.

3.06 #5 AT 12" OCEW.

3.07 EDGE OF FOOTING AT COLUMN.

3.08 EDGE OF GRADE BEAM BEYOND FOOTING.

3.09 5/8"ø x 24" Lg SMOOTH DOWELS AT 18" o/c (SLEEVE FREE END) LOCATE DOWELS AT MID-DEPTH AT OF FLATWORK/THK SLAB.

3.10 1/2" EXPANSION JOINT FILLER w/ SEALANT.

3.11 REFERENCE CIVIL FOR FLATWORK.

3.12 3-#5 BENT DOWELS AT 4" o/c. LOCATE DOWELS 3" BELOW TOP OF GRADE BEAM, CENTERED ON BASEPLATE.

3.13 1-#7 TOP & BOTTOM w/ #3 STIRRUPS AT 24" o/c.

3.14 #4 HOOKED DOWELS AT 16" o/c. 24" | 24"

3.15 #3 TIE AT BLOCKOUT

DIVISION 4 MASONRY

4.01 HB-213-2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2-#10 TEK SCREWS.

DIVISION 5 METALS

5.01 STEEL COLUMN, REFERENCE PLAN.

5.02 REFERENCE BASEPLATE SCHEDULE.

5.03 600S162-54 METAL STUDS AT 16" o/c (HD GALV). REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.

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STATE OF TEXAS — ROLANDO R. RUBIANO — 86369 — LICENSED PROFESSIONAL ENGINEER — 6/29/2026

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KEYPLAN

Project Number: 696-258
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Drawn: DM, DC, HR
Checked: BD

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Sheet Title:

FOUNDATION DETAILS

S2.7

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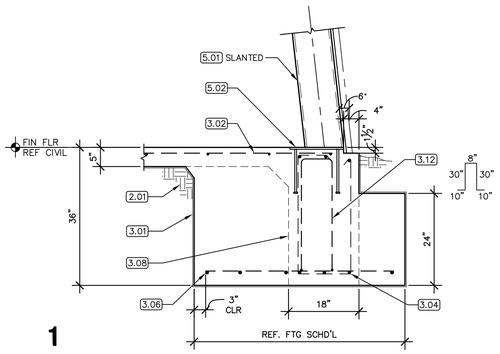

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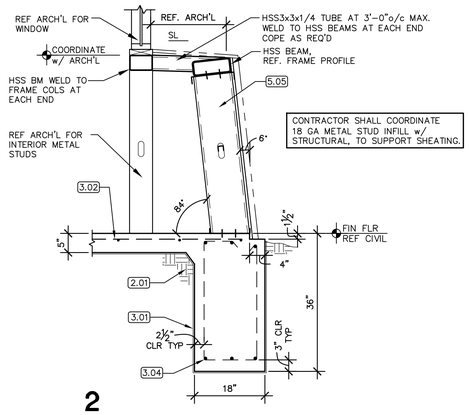

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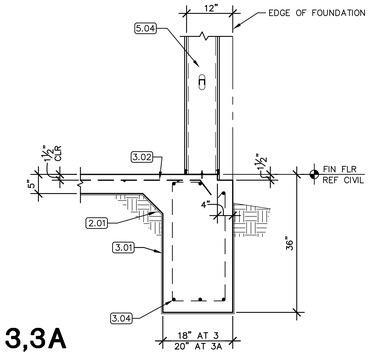

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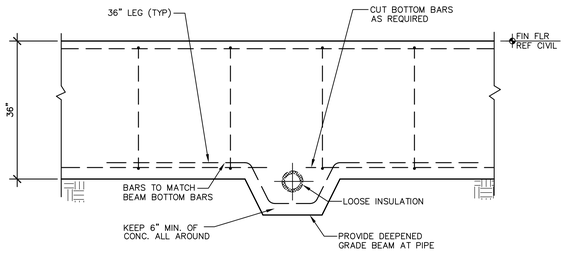
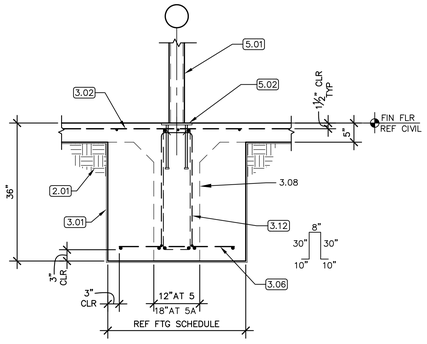


4 TOP OF SLEEVE INTERRUPTS REINFORCING



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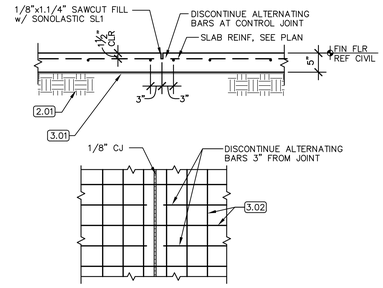
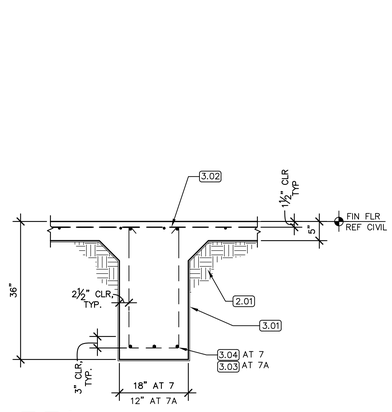


6 CONTROL JOINT

NOTE: ALL JOINTS ARE TO BE CLEANED AND FILLED WITH SONOLASTIC SL1 (SONNEBORN).



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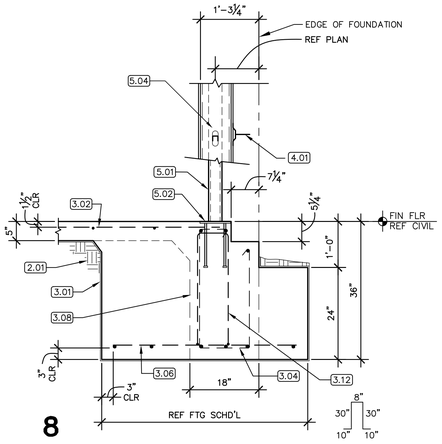

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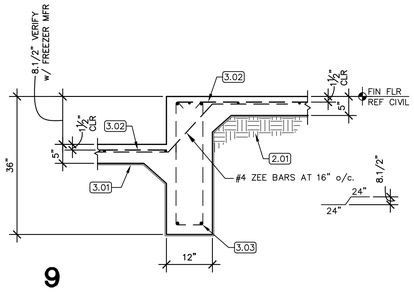

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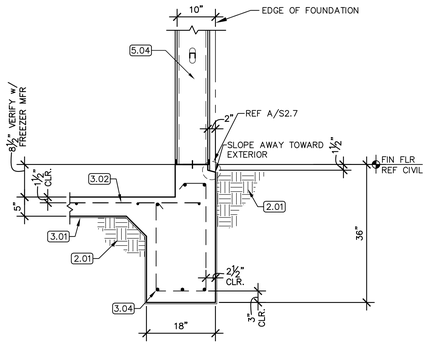

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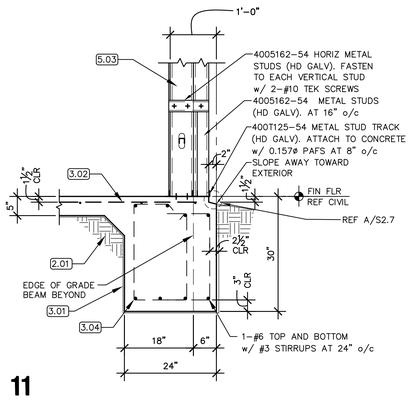

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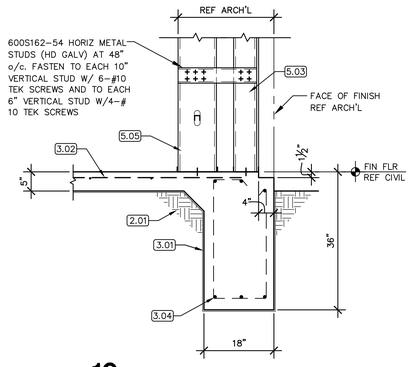

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KEY NOTES

DIVISION 2 EARTH WORK

2.01 COMPACTED SELECT FILL.

DIVISION 3 CONCRETE

3.01 10 MIL POLYETHYLENE VAPOR BARRIER.

3.02 #4 AT 16" OCEW.

3.03 2-#7 TOP & BOTTOM w/ #3 STIRRUPS AT 24" o/c.

3.04 3-#7 TOP & BOTTOM w/ #3 STIRRUPS AT 24" o/c.

3.05 1-#5 CONTINUOUS w/ #3 STIRRUPS AT 18" o/c.

3.06 #5 AT 12" OCEW.

3.07 EDGE OF FOOTING AT COLUMN.

3.08 EDGE OF GRADE BEAM BEYOND FOOTING.

3.09 5/8"ø x 24" Lg SMOOTH DOWELS AT 18" o/c (SLEEVE FREE END) LOCATE DOWELS AT MID-DEPTH AT OF FLATWORK/THK SLAB.

3.10 1/2" EXPANSION JOINT FILLER w/ SEALANT.

3.11 REFERENCE CIVIL FOR FLATWORK.

3.12 3-#5 BENT DOWELS AT 4" o/c. LOCATE DOWELS 3" BELOW TOP OF GRADE BEAM, CENTERED ON BASEPLATE.

3.13 1-#7 TOP & BOTTOM w/ #3 STIRRUPS AT 24" o/c.

3.14 #4 HOOKED DOWELS AT 16" o/c. 24" | 24"

3.15 #3 TIE AT BLOCKOUT

DIVISION 4 MASONRY

4.01 HB-213-2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2-#10 TEK SCREWS.

DIVISION 5 METALS

5.01 STEEL COLUMN, REFERENCE PLAN.

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KEYPLAN

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Revisions:

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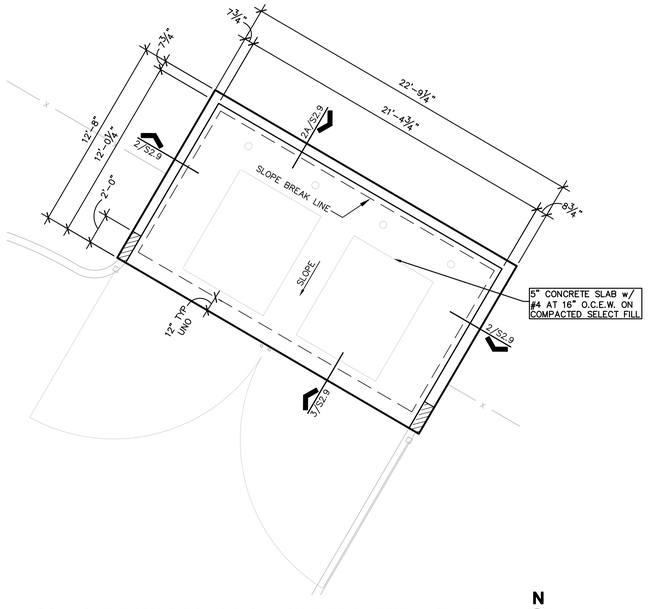


1 DUMPSTER PAD FOUNDATION PLAN

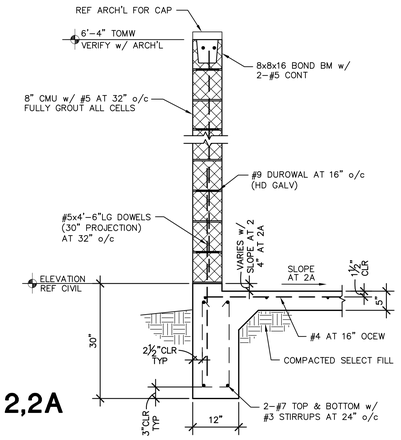
1/4" = 1'-0"

N

PLAN NORTH

NOTES:

1. COORDINATE LOCATION & ORIENTATION OF DUMPSTER PAD WITH ARCHITECTURAL & CIVIL.
2. ALL CONDUIT GREATER THAN 1.1/2" IN DIAMETER SHALL BE RECESSED TO PROVIDE 1.1/2" CLEAR DISTANCE BETWEEN SLAB REBAR & CONDUIT.
3. MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
4. A SINGLE CONDUIT (MAX 3" O.D.) MAY BE PLACED WITHIN THE BEAM CAGE. ALL CONDUIT IN BEAM CAGES TO BE TIED TO STIRRUPS MINIMUM OF 4" FROM HORIZONTAL BARS.
5. INDICATES 8" CMU WALLS w/ #5 VERTICAL BARS AT 8" o/c.



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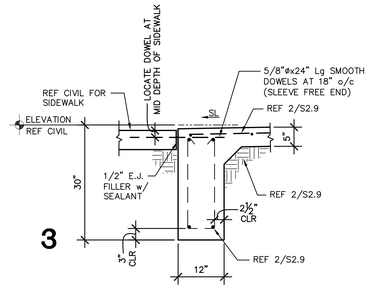

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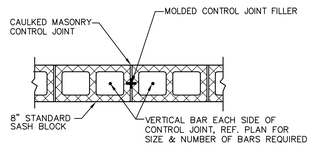
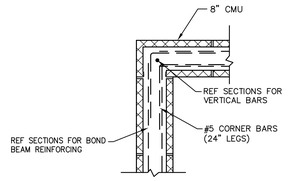
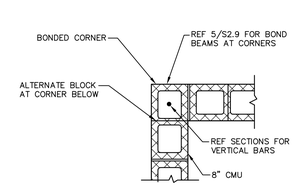


4 TYPICAL CRACK CONTROL JOINT



5 BOND BEAM AT EXTERIOR CORNERS



6 BONDED CORNER

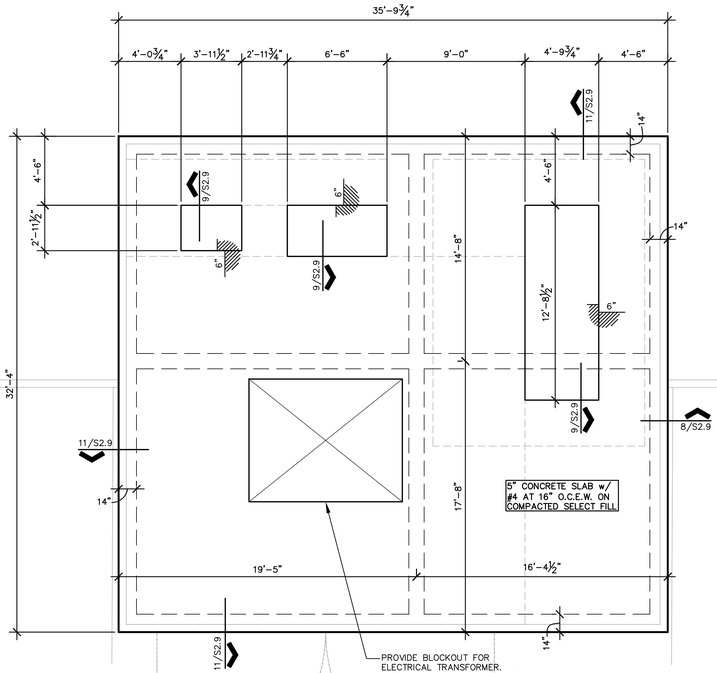
CONCRETE MASONRY:

1. THE GENERAL CONTRACTOR, PROJECT SUPERINTENDENT, TESTING LABORATORY AND THE MASONRY FOREMAN SHALL MEET WITH THE STRUCTURAL ENGINEER PRIOR TO THE START OF MASONRY WORK TO REVIEW PROJECT REQUIREMENTS AND PROCEDURES.
2. AN INDEPENDENT TESTING LAB SHALL VERIFY PLACEMENT OF VERTICAL REINFORCING IN WALLS AND HORIZONTAL REINFORCING IN BOND BEAMS AND LINTELS PRIOR TO PLACEMENT OF GROUT. INDEPENDENT TESTING LAB SHALL PROVIDE CONTINUOUS VISUAL OBSERVATIONS OF GROUTING PROCEDURES, REBAR PLACEMENT, SITE MIXING OF MORTAR, INSTALLATION OF EMBEDED STEEL CONNECTORS, AND GENERAL PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS. INSPECTION REPORTS ARE TO BE GENERATED DAILY BY THE TESTING LAB. INSPECTION SUMMARY REPORTS SHALL BE EMAILED TO THE STRUCTURAL ENGINEER IN ELECTRONIC (PDF) FORMAT.
3. ALL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE AMERICAN CONCRETE INSTITUTE (ACI 530-13/ ASCE 5-13/ TMS 402-16). DESIGN IS BASED ON MASONRY COMPRESSIVE STRENGTH (f'm) OF 2,000 PSI.
4. HOT AND COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE UTILIZED AS REQUIRED BY THE SPECIFICATIONS AND ACI 530.1.
5. HOLLOW CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT MOISTURE CONTROLLED TYPE I UNITS, CONFORMING TO ASTM C-90-97.
6. MASONRY UNITS SHALL HAVE A MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 2,000 PSI (NET AREA) WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS".
7. MORTAR PROPORTIONS FOR REINFORCED MASONRY SHALL BE ESTABLISHED PER ASTM C270 PROPORTION SPECIFICATIONS, TYPE S USING MASONRY CEMENT. FIELD TESTS OF MORTAR SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY IN ACCORDANCE WITH ASTM C780 AT A RATE OF ONE TEST PER 2,000 SF OF WALL SURFACE TO DETERMINE BATCH-TO-BATCH UNIFORMITY OF MORTAR. REFERENCE SPECIFICATIONS FOR NON REINFORCED MASONRY.
8. GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM 3/8" AGGREGATE. A MID RANGE WATER REDUCING AGENT SUCH AS "POLYHEED" (MASTER BUILDERS) SHALL BE USED. SLUMP TO BE BETWEEN 8 AND 11 INCHES. **ALL GROUT SHALL BE PUMPED.** PLACING OF GROUT TO FOLLOW AMERICAN CONCRETE INSTITUTE (ACI) RECOMMENDATIONS REGARDING **LOW & HIGH LIFT GROUTING.** MAXIMUM LIFT OF GROUT SHALL NOT EXCEED 5'-0" UNLESS APPROVED BY THE ENGINEER PRIOR TO START OF GROUTING. GROUT TO BE TESTED BY A QUALIFIED TESTING LABORATORY AT A RATE OF ONE TEST PER 25 CY OF GROUT IN ACCORDANCE WITH ASTM C1019.
9. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL BAR REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (MIN). BARS SHALL BE PLACED WITHIN 1/2" (CENTERLINE OF BAR TO FACE OF MASONRY) OF LOCATION SHOWN IN STRUCTURAL PLANS. BARS SHALL BE HELD IN POSITION DURING GROUTING WITH BAR POSITIONERS. POSITIONERS SHALL BE LOCATED AT THE BOTTOM AND TOP OF THE WALL AND AT 8 TO 10 FOOT INTERVALS. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 8 INCHES.
10. ALL EXTERIOR MASONRY WALLS SHALL BE REINFORCED WITH 9 GA. HOT DIPPED GALVANIZED HORIZONTAL WIRE REINFORCEMENT (LADDER TYPE) EMBEDDED IN MORTAR JOINTS AT 16" O.C. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. (INTERIOR WALLS MAY BE MILL GALVANIZED). WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 8" WITH AT LEAST ONE CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS. WIRE REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
11. EXTERIOR WALLS SHALL BE BONDED WITH CONCRETE MASONRY UNITS AT BUILDING CORNERS.
12. ONE GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS AND AT WALL CORNERS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS.
13. NEATLY TOOL INTERIOR AND EXTERIOR JOINTS IN MASONRY TO FORM A SLIGHTLY CONCAVE PROFILE WHEN MORTAR IS THUMBPRINT HARD UNLESS SHOWN OTHERWISE. ALL MORTAR JOINTS SHALL BE TOOLED THE ENTIRE HEIGHT OF WALL.
14. BOND BEAMS SHALL BE REINFORCED WITH TWO CONTINUOUS #5 BARS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. REINFORCING SHALL BE CONTINUOUS AT ALL CORNERS AND INTERSECTING WALLS. (PROVIDE CORNER BARS). WHERE SIDE WALL AND END WALL BOND BEAMS DO NOT COURSE CONTINUE THE LOWER BOND BEAM AROUND THE BUILDING CORNER TO THE FIRST VERTICAL REINFORCED CELL.
15. CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL. JOINTS SHALL BE PROVIDED AT MAXIMUM SPACING OF 22 FT. AND AT ALL LOCATIONS WHERE COLUMNS ARE PLACED IN CMU CELLS. (EXTERIOR AND INTERIOR WALLS). JOINT LOCATIONS, IF NOT SHOWN ON PLANS, SHALL BE COORDINATED WITH ARCHITECT.
16. CONTROL JOINTS SHALL NOT EXTEND THROUGH BOND BEAMS UNLESS INDICATED ON THE STRUCTURAL PLANS.
17. CONTROL JOINTS IN CMU WALLS SHALL NOT BE LOCATED CLOSER THAN 2'-0" FROM AN EDGE OF OPENING WITHOUT REVIEW OF STRUCTURAL ENGINEER.

SPECIAL INSPECTIONS:

REQUIRED LEVEL 1 SPECIAL INSPECTION OF MASONRY CONSTRUCTION (OCCUPANCY CATEGORY I, II, III)

INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
PROPORTIONS OF SITE-PREPARED MORTAR		X
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		X
LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		X
THE INSPECTION PROGRAM SHALL VERIFY:		
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X
TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION		X
SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT		X
PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
GROUT SPACE IS CLEAN		X
PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		X
CONSTRUCTION OF MORTAR JOINTS		X
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	X	
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	X	
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBITTALS SHALL BE VERIFIED		X



7 ELECTRICAL YARD FOUNDATION PLAN

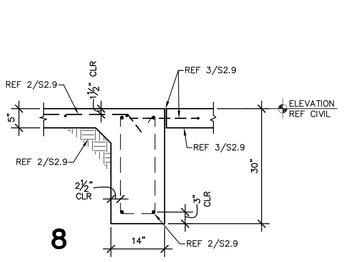
1/4" = 1'-0"

N

PLAN NORTH

NOTES:

1. COORDINATE GENERATOR FOUNDATION LOCATION AND ORIENTATION WITH MEP & CIVIL SITE PLANS.
2. COORDINATE AND VERIFY SIZE OF GENERATOR WITH MEP ENGINEER AND GENERATOR MANUFACTURER PRIOR TO PLACING FOUNDATION.
3. COORDINATE DIMENSIONS WITH AN * WITH MEP, GENERATOR MFR, AND TRANSFORMER PROVIDER PRIOR TO FORMING BLOCKOUT AND POURING HOUSEKEEPING PADS. MAKE HOUSEKEEPING PAD 6" LARGER THAN EQUIPMENT.



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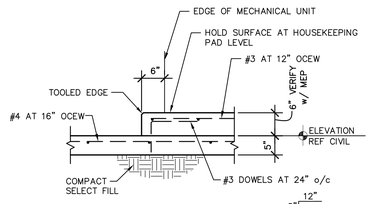
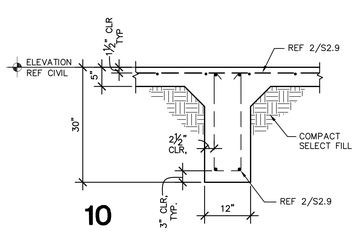


9 TYPICAL HOUSEKEEPING PAD DETAIL

NOTE: COORDINATE SIZE, LOCATION & QUANTITIES OF HOUSEKEEPING PADS WITH MEP & ARCHITECTURAL



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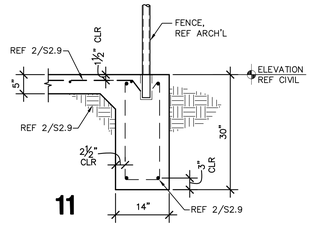

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TEXAS 77379

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Project Number:	696-258
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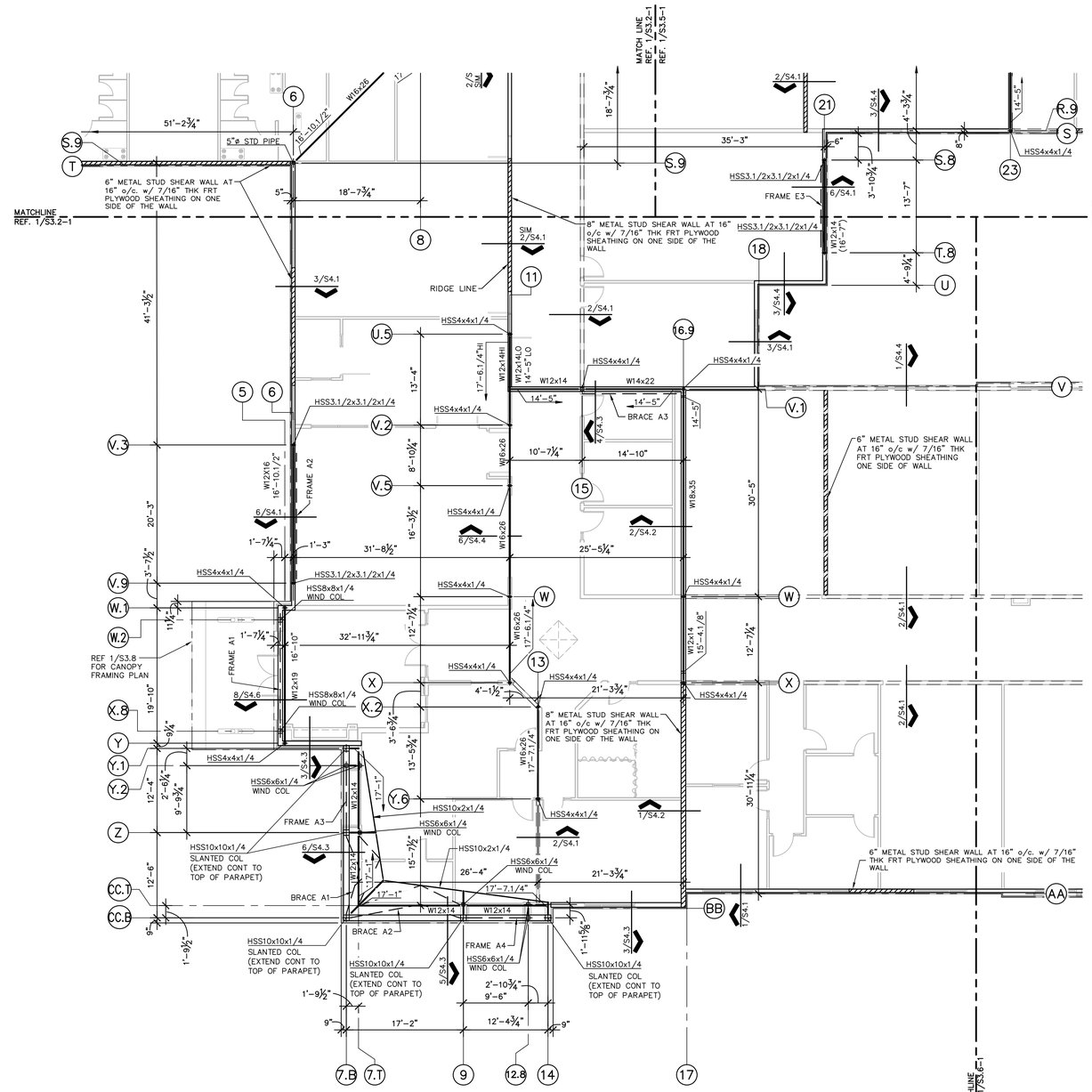
DUMPSTER PAD FOUNDATION PLAN

S2.9



1 PARTIAL SHEAR WALL, COLUMN AND GIRDER PLAN

1/8" = 1'-0" — AREA A

N

PLAN NORTH

NOTES

1. REFERENCE SHEET 1/S3.1-2 FOR PARTIAL JOIST FRAMING PLAN FOR JOIST SIZES AND TYPICAL FRAMING NOTES.
2. ▨ INDICATES LOCATION AND LIMITS OF SHEAR WALL, REF DETAILS 11-15/S1.3, REFERENCE 16/S1.3 FOR SHEARWALL FASTENING SCHEDULE.
3. ALL 7/16" THK PLYWOOD SHEATHING USED AT SHEAR WALLS SHALL BE FIRE-RETARDANT-TREATED PLYWOOD ABBREVIATED FRT.

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6/29/2026

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PHASE 2
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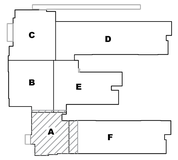
VILLAGE PKWY, SPRING ,
TEXAS 77379



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Project Number: 696-258
Drawing Date: 06/29/2026
Drawn: DM, DC, HR
Checked: BD

Revisions:

No.	Description	Date

Sheet Title:

PARTIAL SHEAR WALL COLUMN AND GIRDER PLAN AREA A

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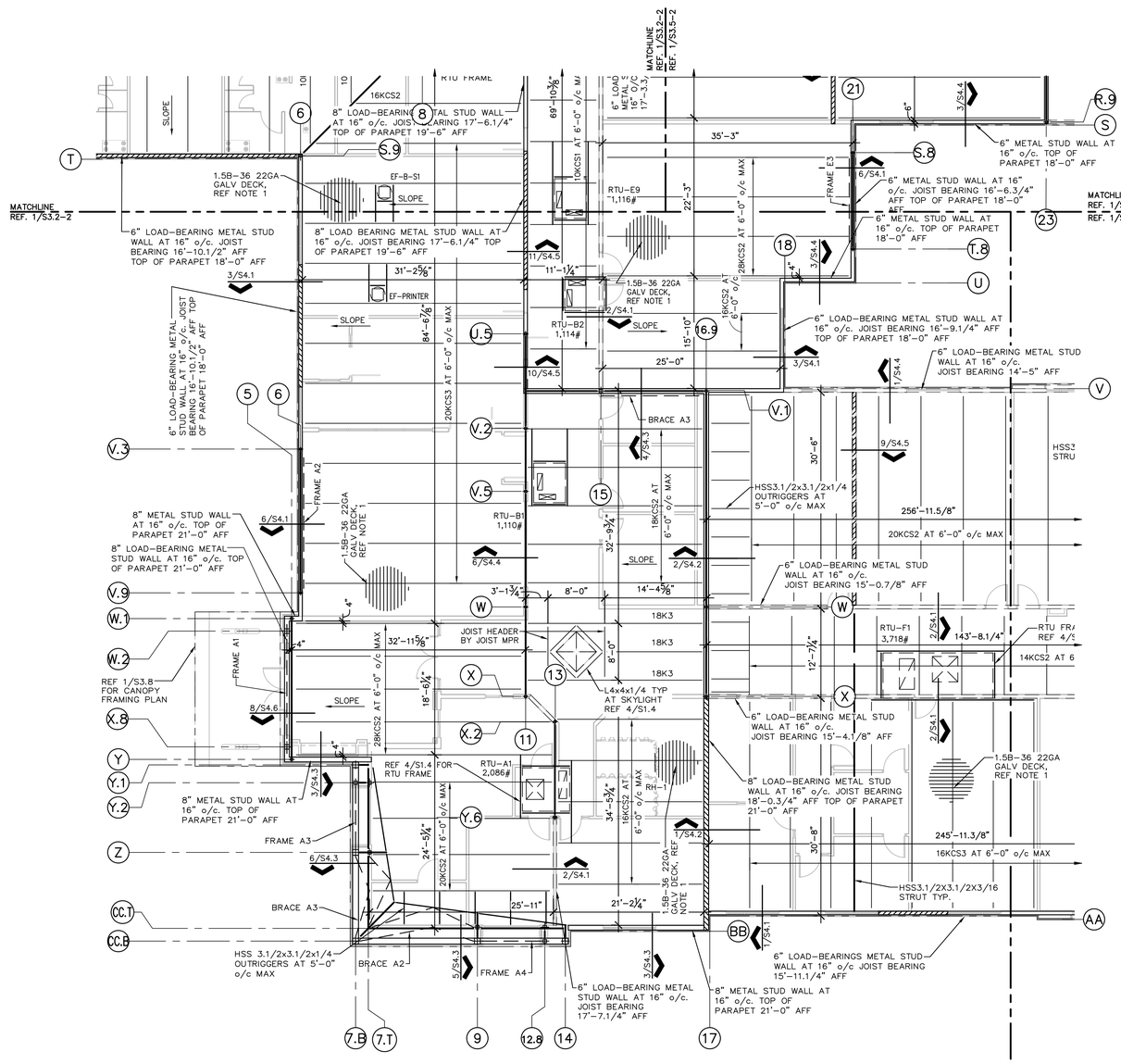

1 PARTIAL JOIST FRAMING PLAN

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

NOTES:

1. ROOF DECK SHALL BE 1.5B 22GA GALV DECK BY VULCRAFT OR APPROVED EQUAL. (Ip= 0.155 IN /FT; In=0.183 /FT; Sn=0.192 /FT; Fy=33KSI). ATTACH DECK TO SUPPORTS USING 5/8" PUDDLE WELDS IN A 36/4 PATTERN AND 5-#10 TEK SCREW SIDE LAP FASTENERS.
2. REFERENCE 4/S1.4 FOR ROOF HATCH AND ROOF OPENING FRAME DETAIL.
3. REFERENCE 7/S1.4 FOR TYPICAL CONDENSER SUPPORT FRAMING PLAN AND 8/S1.3 FOR TYPICAL CONDENSER SUPPORT FRAMING DETAIL.
4. REFERENCE 3/S1.3 FOR TYPICAL WINDOW/DOOR/LOUVER OPENING DETAIL. COORDINATE LOCATIONS WITH MEP AND ARCHITECTURAL.
5. EXTERIOR METAL STUDS ARE SPACED AT 16" o/c MAXIMUM AND AT ROOF JOISTS. ADDITIONALLY AS REQUIRED AT EDGE OF EXTERIOR SHEATHING UNLESS NOTED OTHERWISE.
6. REFERENCE 1/S1.3 FOR TYPICAL STUD FRAMING AT EXTERIOR OUTSIDE CORNER AND 2/S1.3 FOR TYPICAL STUD FRAMING AT EXTERIOR INSIDE CORNER
7. REFERENCE SHEETS S3.7 FOR BRACE PROFILES.
8. REFERENCE SHEETS S3.7 FOR FRAME PROFILES.
9. INDICATES SHEAR WALL, REF DETAILS 11-15/S1.3. REFERENCE 16/S1.3 FOR SHEAR WALL FASTENING SCHEDULE
10. REFERENCE 8/S4.2 FOR TYPICAL HEADER SCHEDULE

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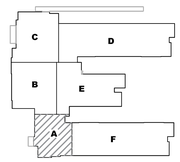

KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
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Checked: BD

Revisions:

No.	Description	Date

Sheet Title:

PARTIAL JOIST FRAMING PLAN AREA A

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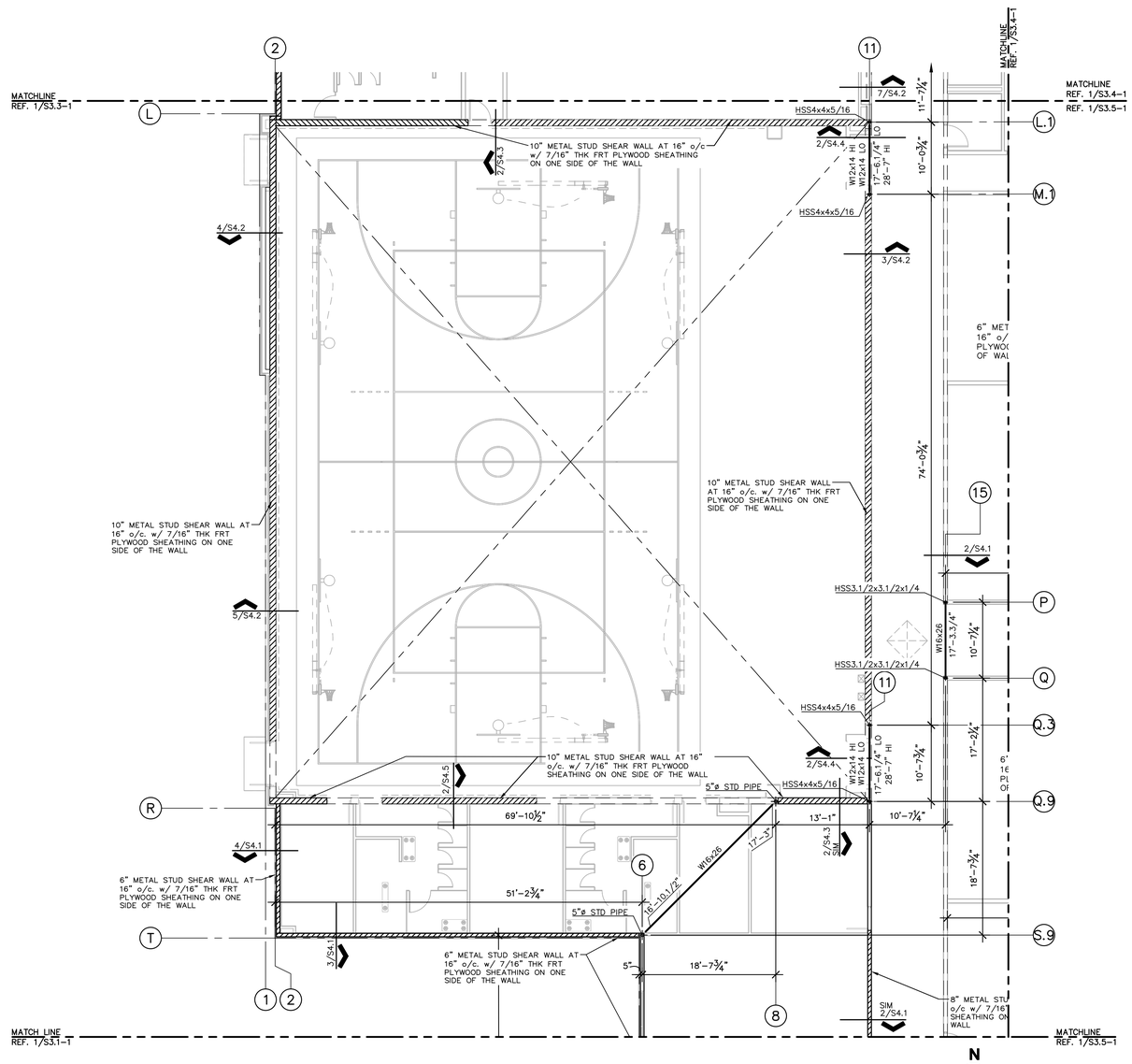

1 PARTIAL SHEAR WALL, COLUMN AND GIRDER PLAN

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

N
PLAN NORTH

NOTES

1. REFERENCE SHEET 1/S3.2-2 FOR PARTIAL JOIST FRAMING PLAN FOR JOIST SIZES AND TYPICAL FRAMING NOTES.
2. ▨ INDICATES LOCATION AND LIMITS OF SHEAR WALL, REF DETAILS 11-15/S1.3. REFERENCE 16/S1.3 FOR SHEAR WALL FASTENING SCHEDULE.
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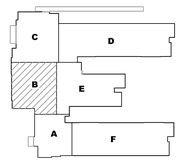

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Revisions:

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Sheet Title:

PARTIAL SHEAR WALL, COLUMN, & GIRDER PLAN AREA B

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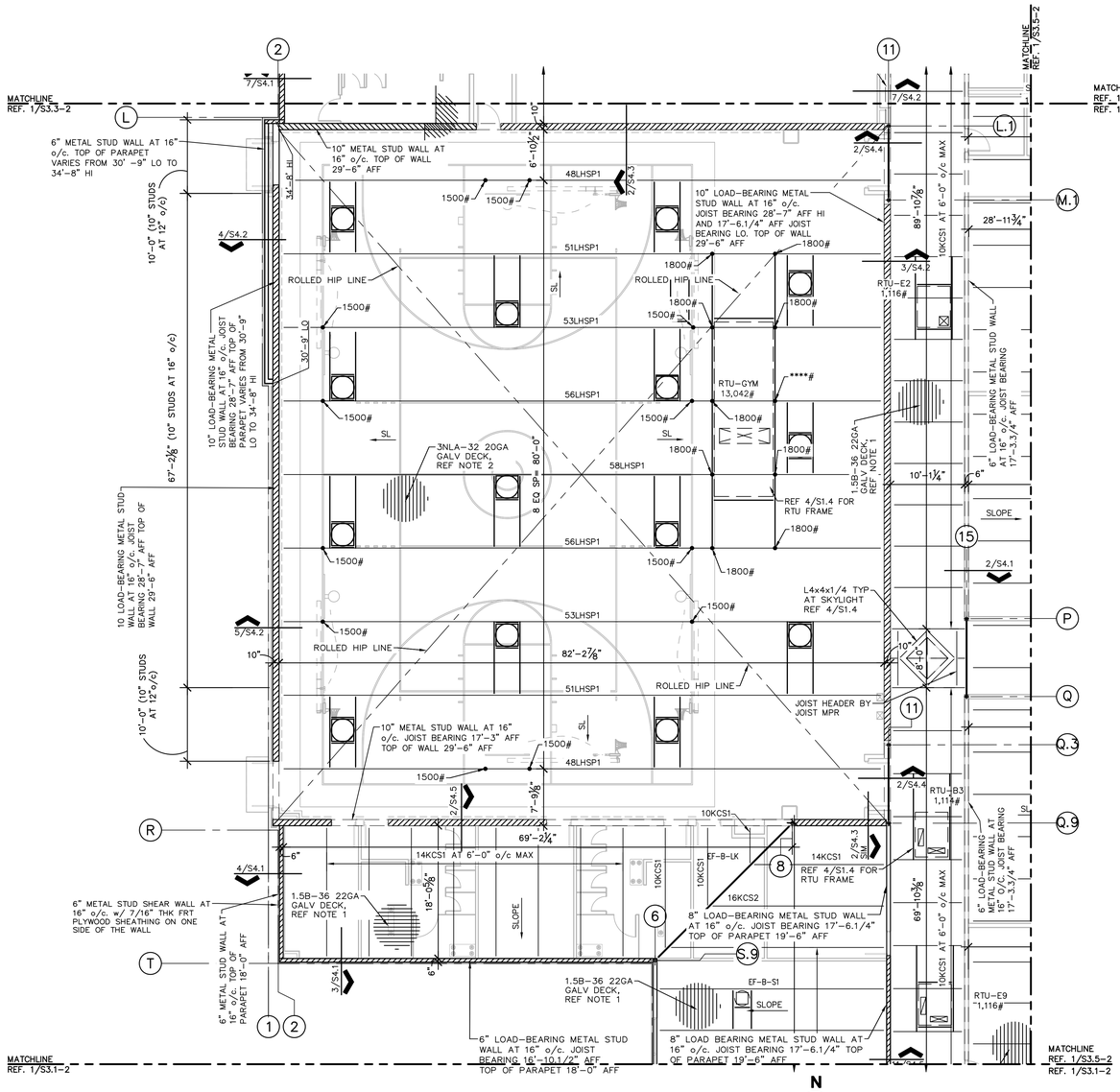

1 PARTIAL JOIST FRAMING PLAN

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

NOTES:

1. ROOF DECK SHALL BE 1.5B 22GA GALV DECK BY VULCRAFT OR APPROVED EQUAL. (Ip= 0.155 IN /FT; In=0.183 /FT; Sn=0.192 /FT; Fy=33KSI). ATTACH DECK TO SUPPORTS USING 5/8" PUDDLE WELDS IN A 36/4 PATTERN AND 5-#10 TEK SCREW SIDE LAP FASTENERS.
2. ROOF DECK AT DINING AND GYMNASIUM SHALL BE 3NLA-32 20GA GALV DECK WITH PLAIN 0.75 PCF FIBERGLASS ACOUSTICAL INSULATION BY VULCRAFT OR APPROVED EQUAL. (Id+=0.766 IN^4/FT;Id-=0.842 IN^4/FT;Se+= 0.426 IN^3/FT;Se-=0.452 IN^3/FT; Fy=50KSI). ATTACH DECK TO SUPPORTS USING 5/8" PUDDLE WELDS ON A 32/5 PATTERN AND 6-#10 TEK SIDE LAP FASTENERS. DECK FINISH SHALL BE G60 AND WHITE PRIMED ON BOTTOM SIDE.
3. REFERENCE 4/S1.4 FOR ROOF HATCH AND ROOF OPENING FRAME DETAIL.
4. REFERENCE 7/S1.4 FOR TYPICAL CONDENSER SUPPORT FRAMING PLAN AND 8/S1.3 FOR TYPICAL CONDENSER SUPPORT FRAMING DETAIL.
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9. REFERENCE SHEETS S3.5 FOR FRAME PROFILES.
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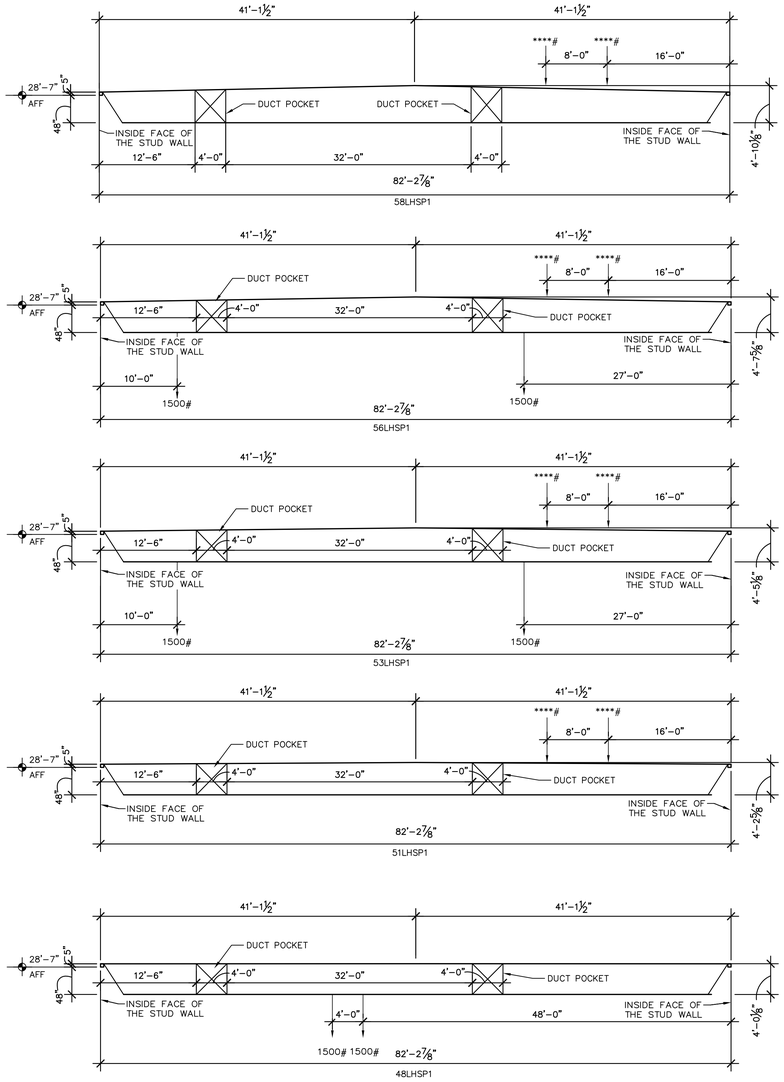

1 SPECIAL JOIST PROFILES

1/8"=1'-0"

NOTES:

1. SPECIAL JOIST SHALL BE LIMITED TO A DEFLECTION LIMIT OF L/240 FOR TOTAL LOAD AND L/360 FOR LIVE LOAD, UNLESS NOTED OTHERWISE.
2. WDL AND WLL INDICATE UNIFORM DEAD LOAD & LIVE LOAD ON STEEL JOIST, RESPECTIVELY.
3. PDL INDICATES POINT DEAD LOAD ON STEEL JOIST.
4. SPECIAL JOIST SHALL BE DESIGNED FOR MAXIMUM NET UPLIDT OF 30 PSF.
5. LONG SPAN JOIST MANUFACTURES SHALL COORDINATE LOCATION AND SIZE OF DUCTWORK THAT WILL BE ROUTED THROUGH JOIST WEBS AND/OR BRIDGING MEMBERS.

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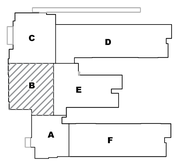

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Project Number: 696-258
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PARTIAL JOIST FRAMING PLAN AREA B

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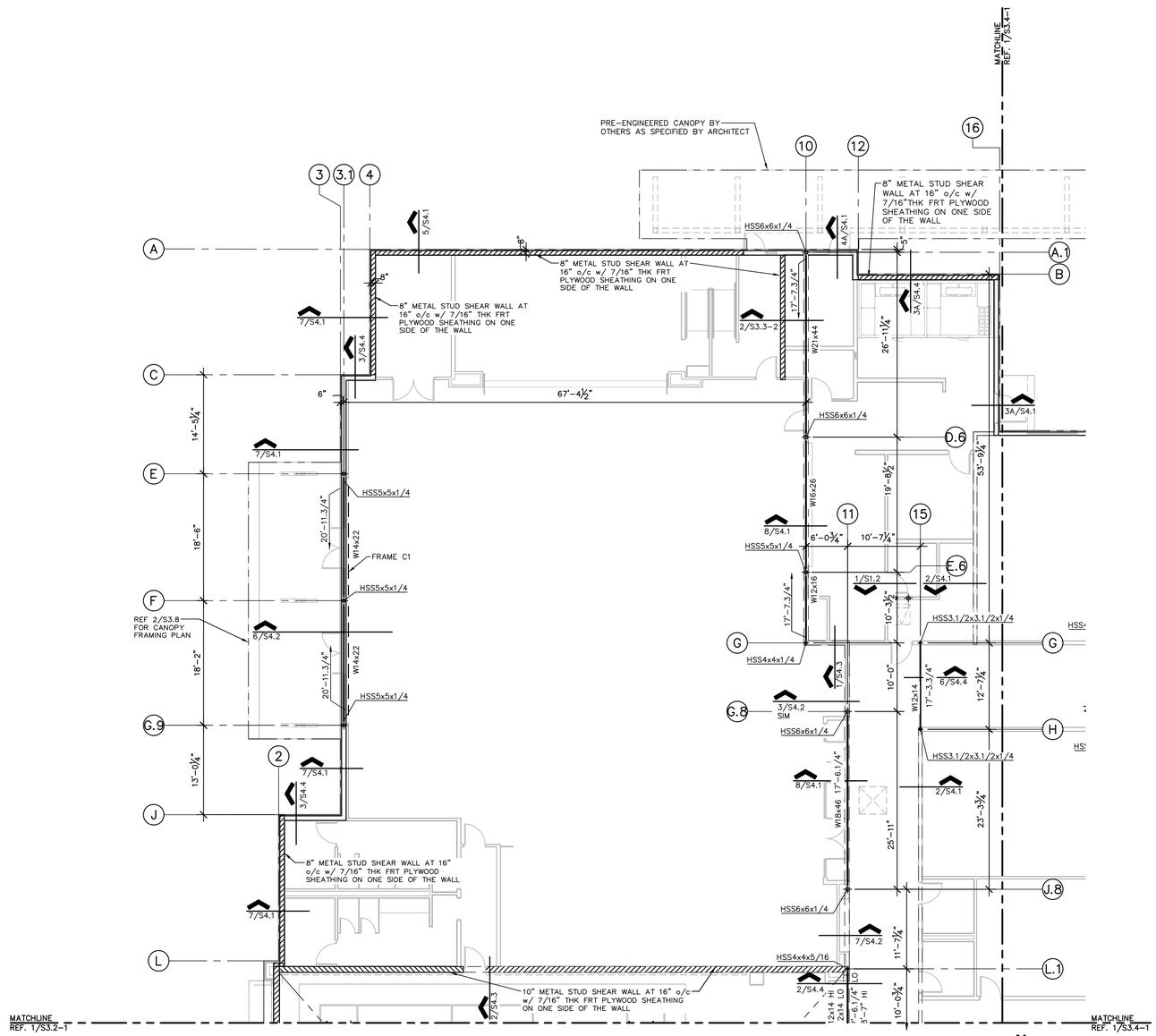

1 PARTIAL SHEAR WALL, COLUMN AND GIRDER PLAN

1/8"=1'-0" AREA C

N

PLAN NORTH

NOTES

1. REFERENCE SHEET 1/S3.3-2 FOR PARTIAL JOIST FRAMING PLAN FOR JOIST SIZES AND TYPICAL FRAMING NOTES.
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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER
6/29/2026

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SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
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Checked: BD

Revisions:

No.	Description	Date

Sheet Title:

PARTIAL SHEAR WALL, COLUMN, & GIRDER PLAN AREA C

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HARLINGEN, TEXAS 78551
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FIRM REGISTRATION # F-4145

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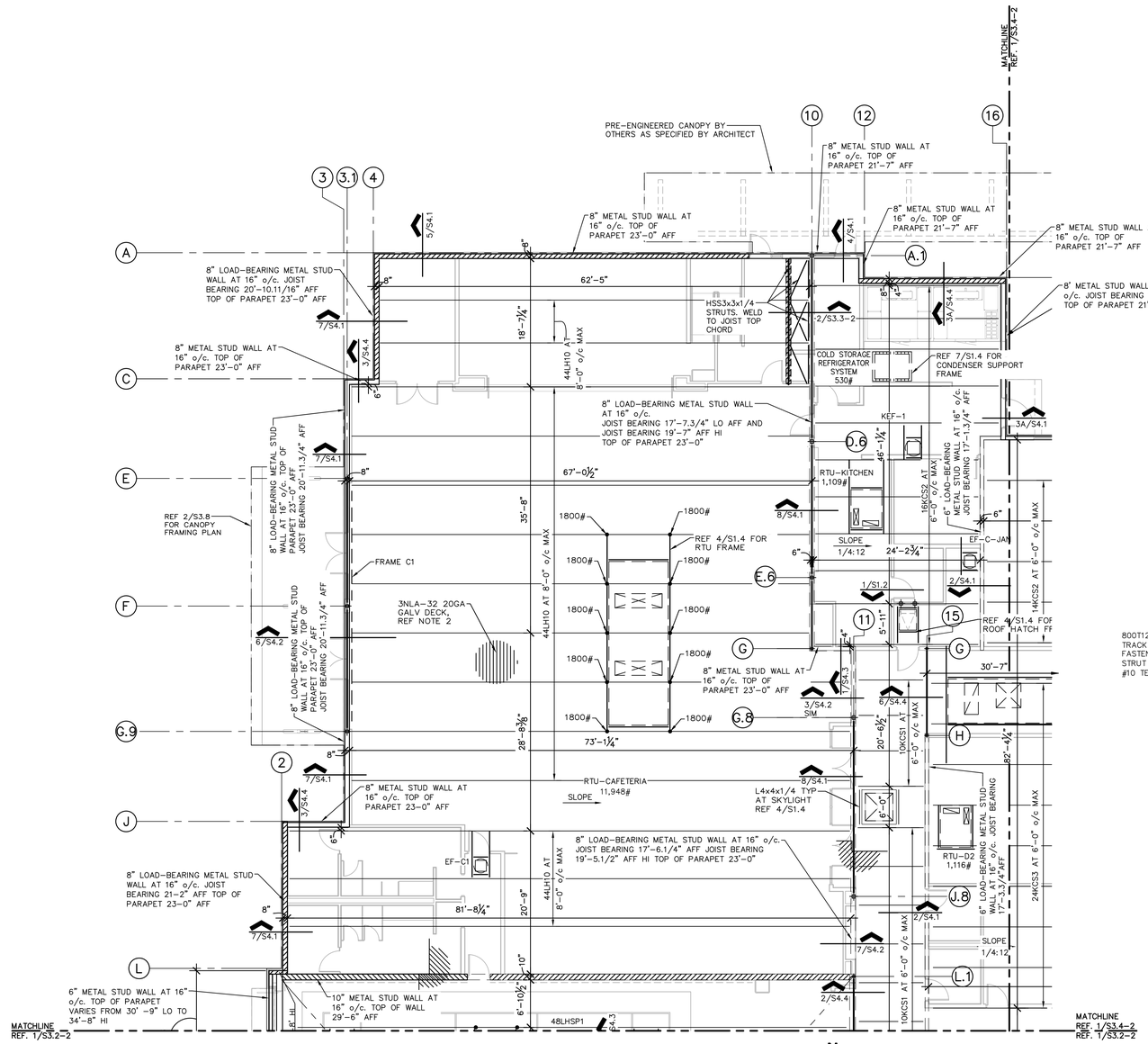
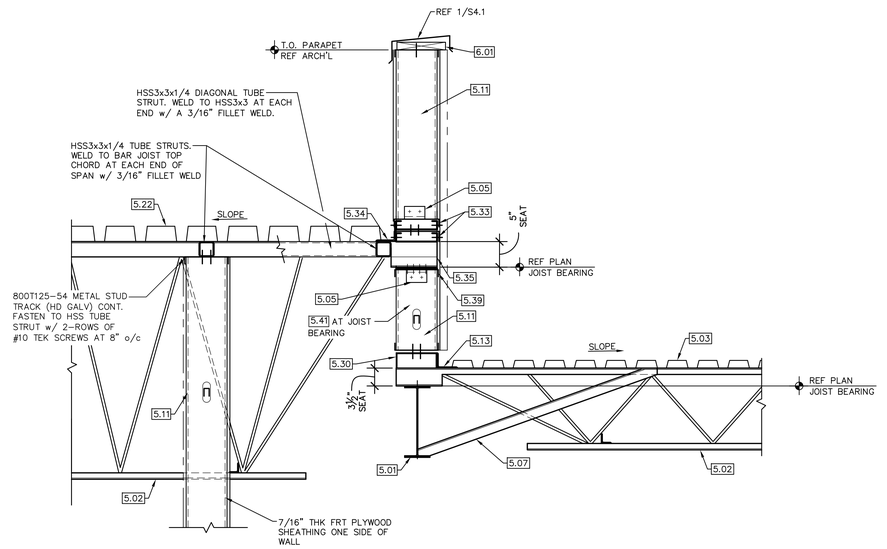


1 PARTIAL JOIST FRAMING PLAN

1/8" = 1'-0" AREA C

NOTES:

1. ROOF DECK SHALL BE 1.5B 22GA GALV DECK BY VULCRAFT OR APPROVED EQUAL. (I_{pos}= 0.155 IN⁴/FT; I_{neg}=0.183 IN⁴/FT; S_{pos}=0.192 IN³/FT; F_y=33KSI). ATTACH DECK TO SUPPORTS USING 5/8" PUDDLE WELDS IN A 36/4 PATTERN AND 5-#10 TEK SCREW SIDE LAP FASTENERS.
2. ROOF DECK AT DINING AND GYMNASIUM SHALL BE 3NLA-32 20GA GALV DECK WITH PLAIN 0.75 PCF FIBERGLASS ACOUSTICAL INSULATION BY VULCRAFT OR APPROVED EQUAL. (I_{d+}=0.766 IN⁴/FT;I_{d-}=0.842 IN⁴/FT; S_{e+}= 0.426 IN³/FT;S_{e-}=0.452 IN³/FT; F_y=50KSI). ATTACH DECK TO SUPPORTS USING 5/8" PUDDLE WELDS ON A 32/5 PATTERN AND 6-#10 TEK SIDE LAP FASTENERS. DECK FINISH SHALL BE G60 AND WHITE PRIMED ON BOTTOM SIDE.
3. REFERENCE 4/S1.4 FOR ROOF HATCH AND ROOF OPENING FRAME DETAIL.
4. REFERENCE 7/S1.4 FOR TYPICAL CONDENSER SUPPORT FRAMING PLAN AND 8/S1.3 FOR TYPICAL CONDENSER SUPPORT FRAMING DETAIL.
5. REFERENCE 3/S1.3 FOR TYPICAL WINDOW/DOOR/LOUVER OPENING DETAIL. COORDINATE LOCATIONS WITH MEP AND ARCHITECTURAL.
6. EXTERIOR METAL STUDS ARE SPACED AT 16" o/c MAXIMUM AND AT ROOF JOISTS. ADDITIONALLY AS REQUIRED AT EDGE OF EXTERIOR SHEATHING UNLESS NOTED OTHERWISE.
7. REFERENCE 1/S1.3 FOR TYPICAL STUD FRAMING AT EXTERIOR OUTSIDE CORNER AND 2/S1.3 FOR TYPICAL STUD FRAMING AT EXTERIOR INSIDE CORNER
8. REFERENCE SHEETS S3.7 FOR BRACE PROFILES.
9. REFERENCE SHEETS S3.7 FOR FRAME PROFILES.
10. ▨ INDICATES SHEARWALL, REF DETAILS 11-15/S1.3. REFERENCE 16/S1.3 FOR SHEAR WALL FASTENING SCHEDULE
11. REFERENCE 8/S4.2 FOR TYPICAL HEADER SCHEDULE



2

NOTES:

1. REFERENCE SHEET S4.1 FOR KEY NOTE SCHEDULE.

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6/29/2026

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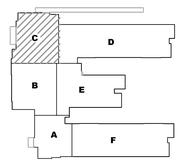

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PARTIAL JOIST FRAMING PLAN AREA C

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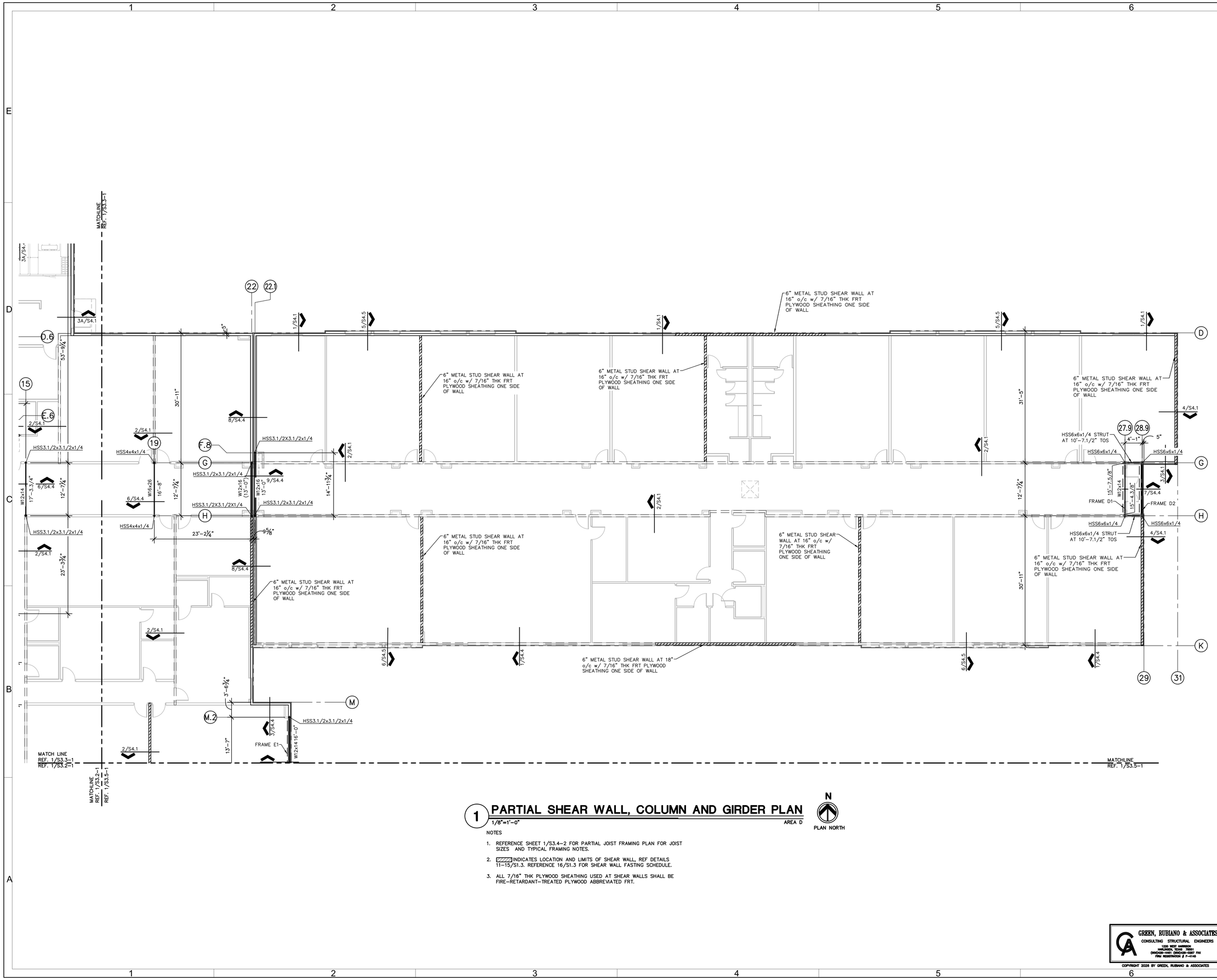

1 PARTIAL SHEAR WALL, COLUMN AND GIRDER PLAN

1/8"=1'-0" — AREA D

N
PLAN NORTH

NOTES

1. REFERENCE SHEET 1/S3.4-2 FOR PARTIAL JOIST FRAMING PLAN FOR JOIST SIZES AND TYPICAL FRAMING NOTES.
2. ▨ INDICATES LOCATION AND LIMITS OF SHEAR WALL, REF DETAILS 11-15/S1.3. REFERENCE 16/S1.3 FOR SHEAR WALL FASTING SCHEDULE.
3. ALL 7/16" THK PLYWOOD SHEATHING USED AT SHEAR WALLS SHALL BE FIRE-RETARDANT-TREATED PLYWOOD ABBREVIATED FRT.

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6/29/2026

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PARTIAL SHEAR WALL, COLUMN & GIRDER PLAN AREA D

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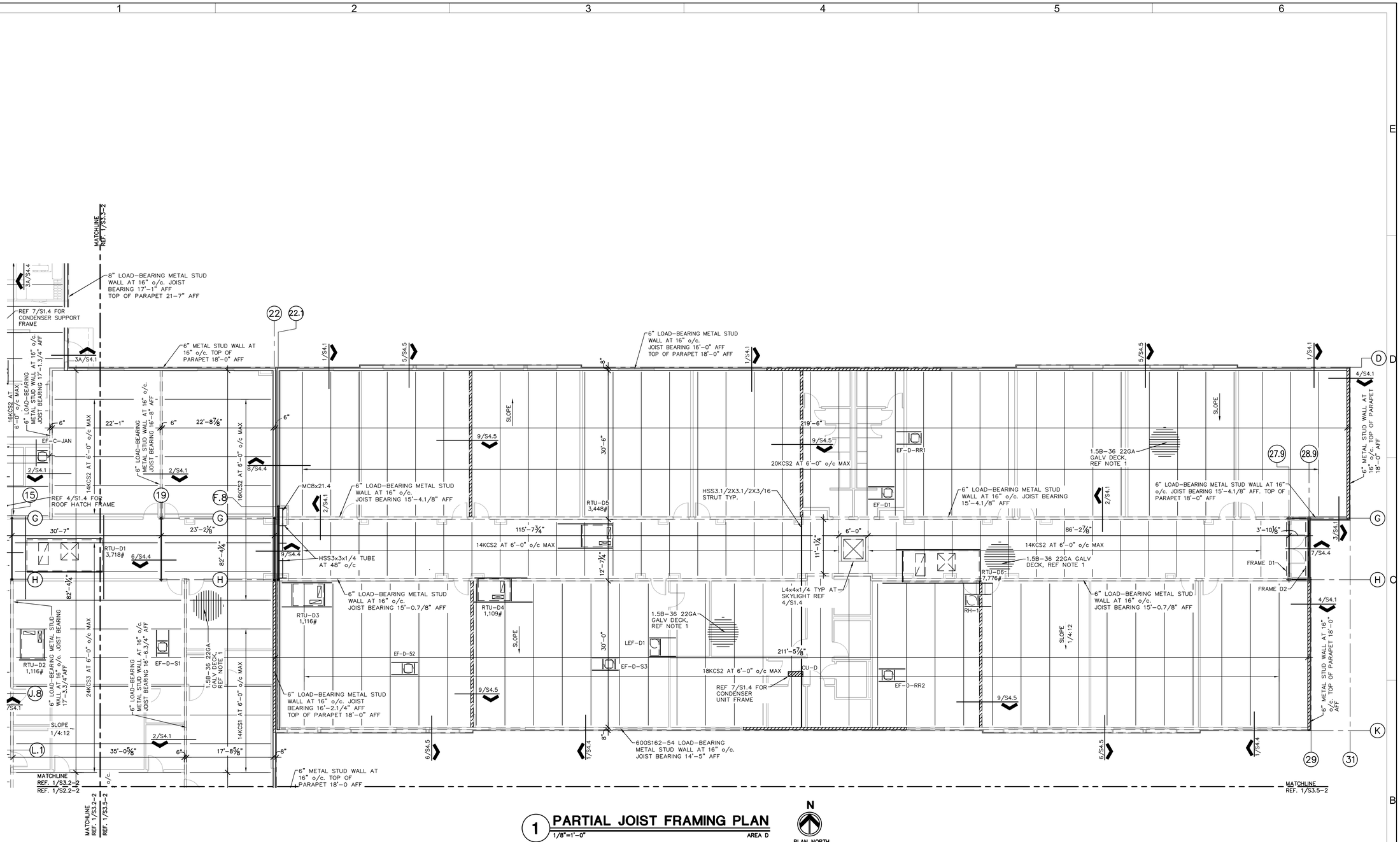

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1/8"=1'-0" AREA D

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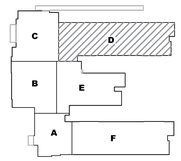

KEYPLAN

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PARTIAL JOIST FRAMING PLAN AREA D

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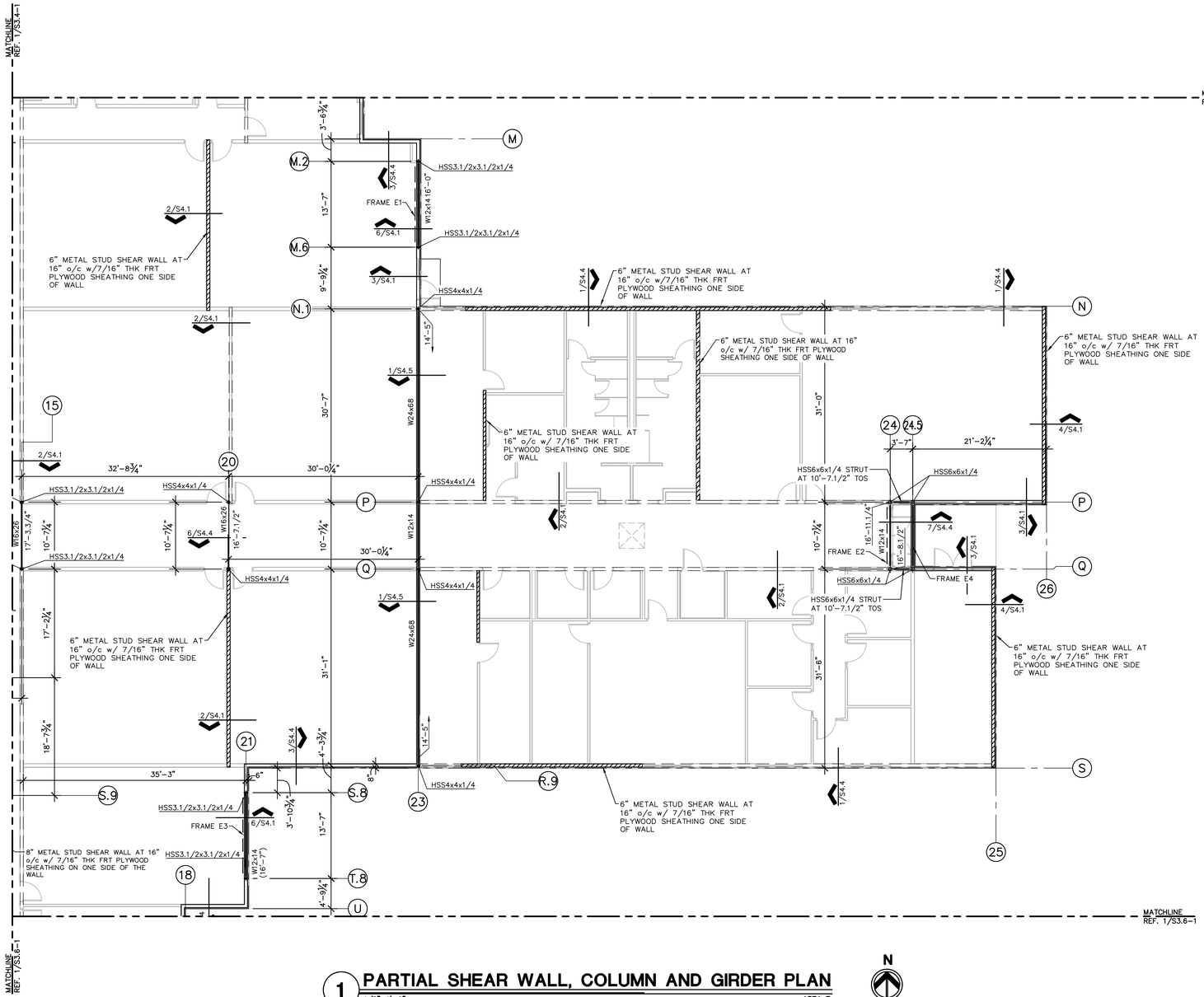

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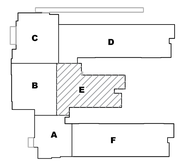

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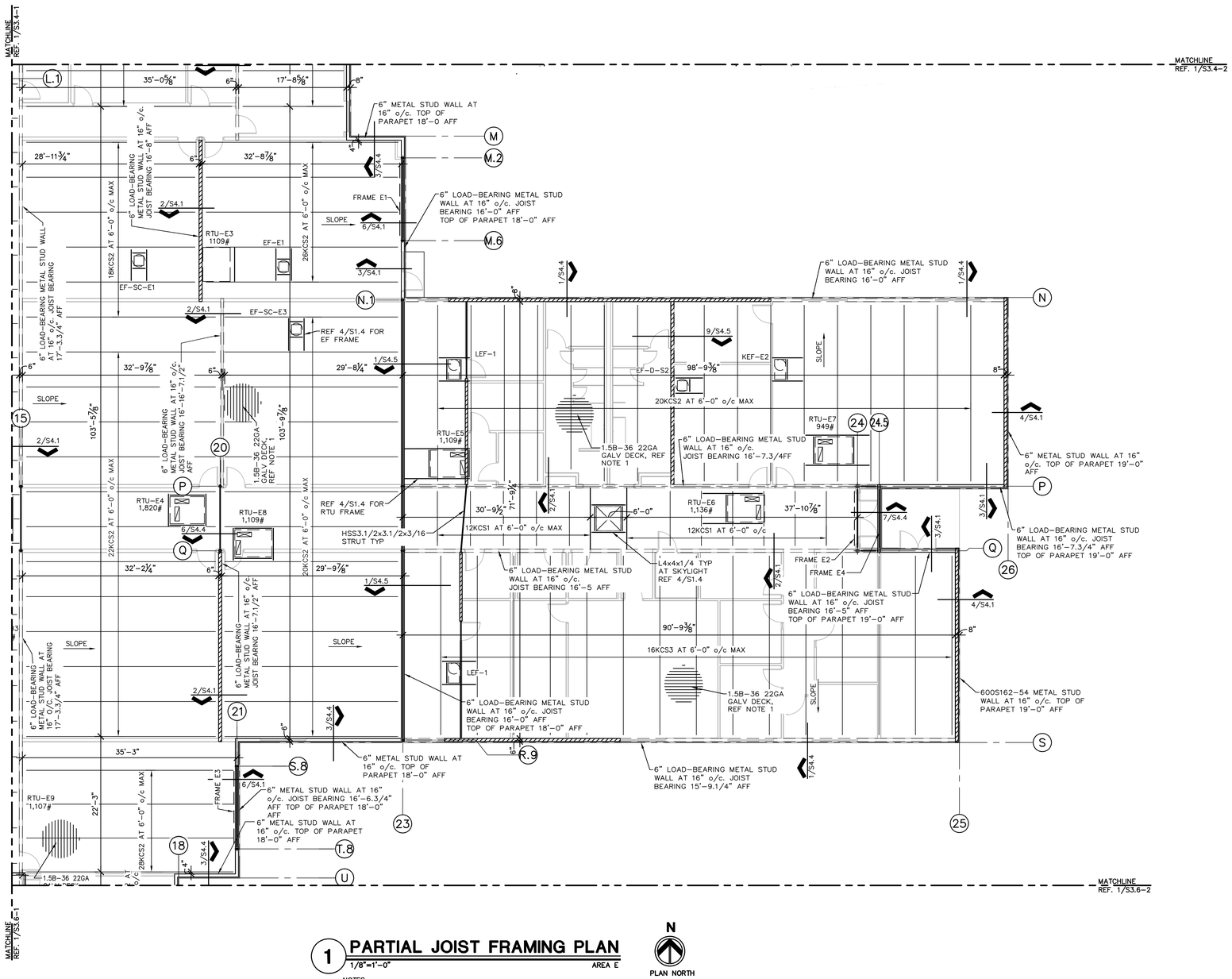

1 PARTIAL JOIST FRAMING PLAN

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

PLAN NORTH

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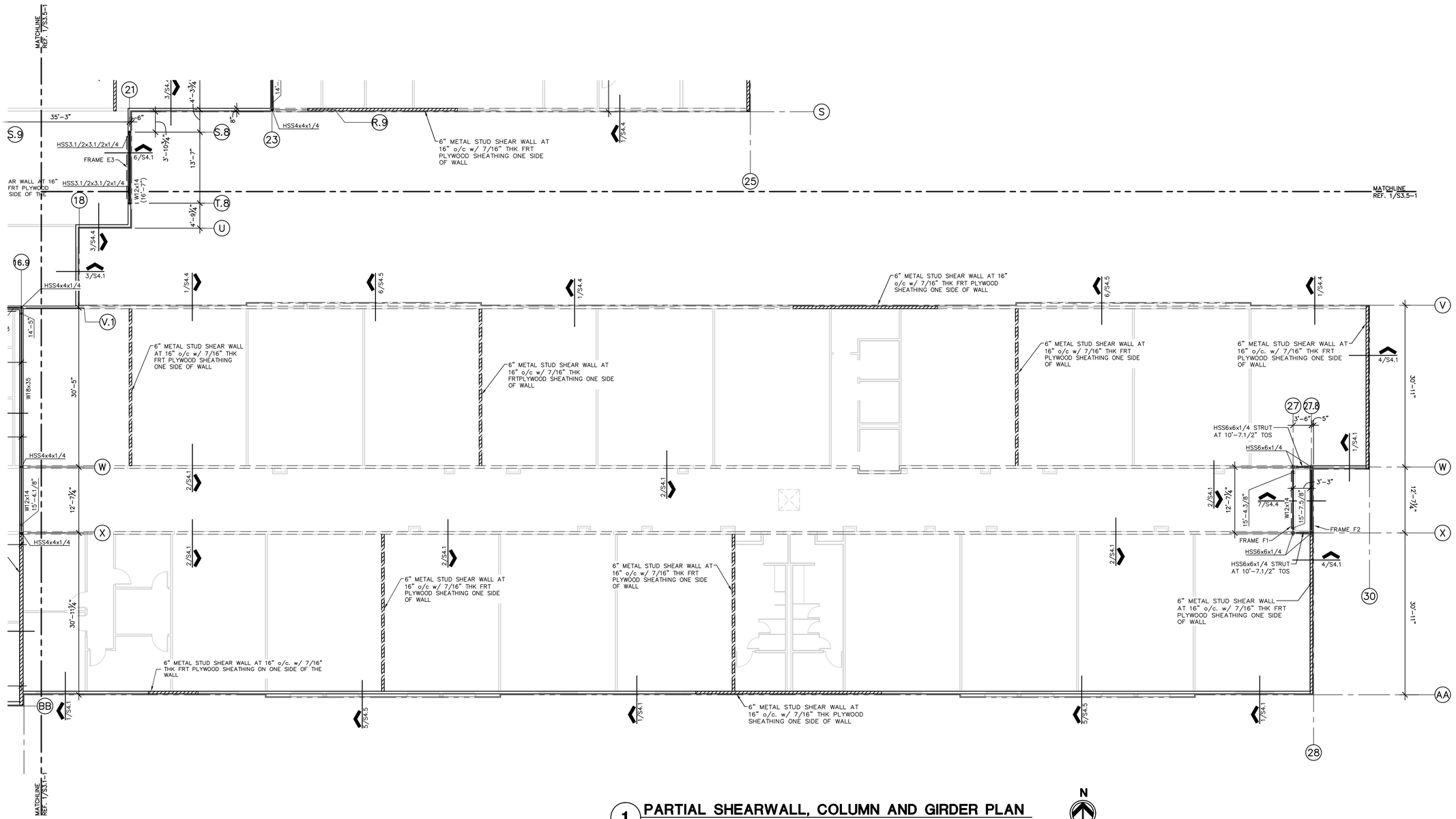

1 PARTIAL SHEARWALL, COLUMN AND GIRDER PLAN

1/8"=1'-0" — AREA F

N

PLAN NORTH

NOTES:

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STRUCTURAL AND WINDSTORM:
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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER — 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

Project Number: 696-258
Drawing Date: 06/29/2026
Drawn: DM, DC, HR
Checked: BD

Revisions:

No.	Description	Date

Sheet Title:

PARTIAL SHEAR WALL, COLUMN & GIRDER PLAN AREA F

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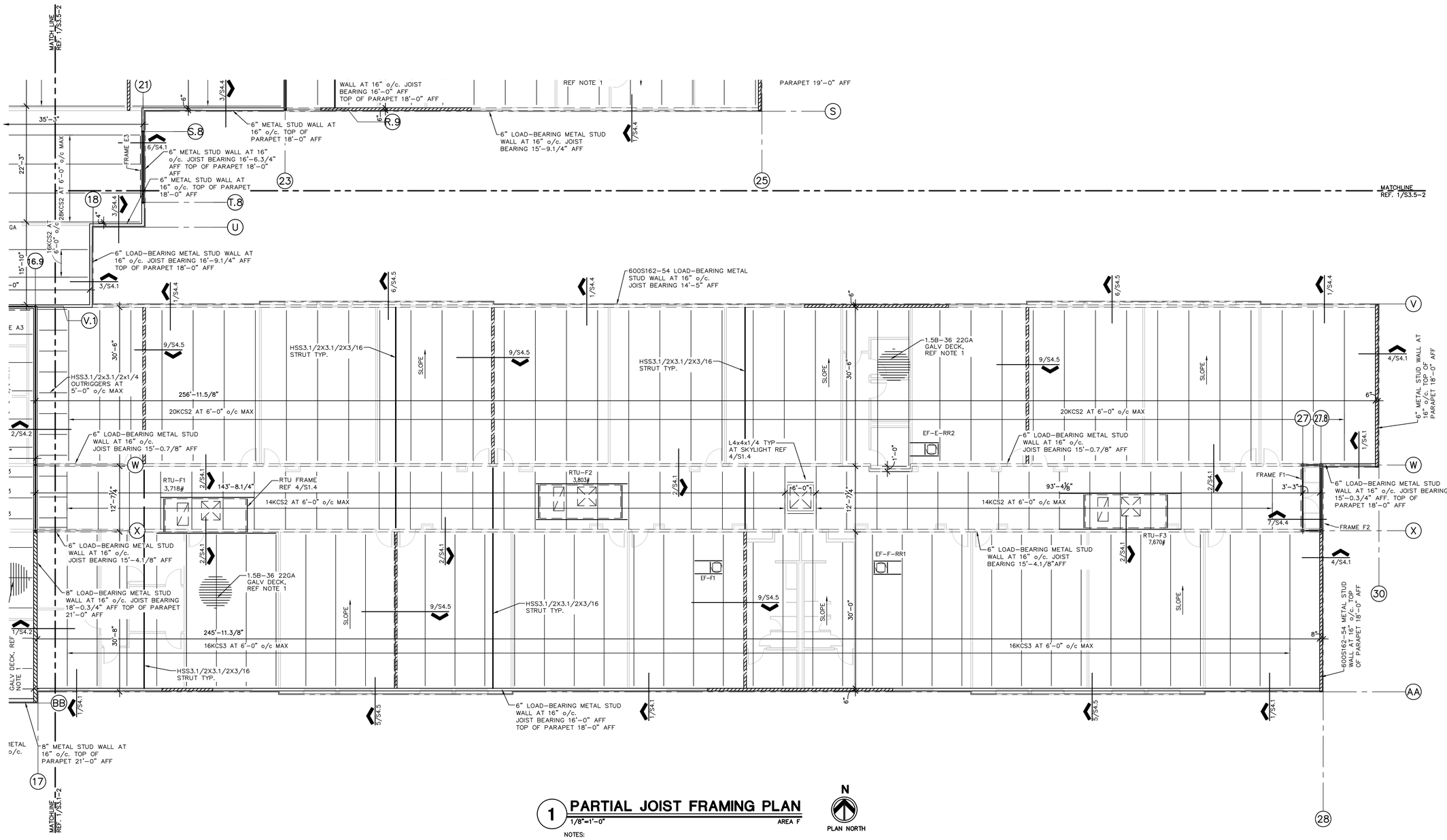
S3.6-1



1 PARTIAL JOIST FRAMING PLAN

1/8"=1'-0" AREA F

N

PLAN NORTH

NOTES:

1. ROOF DECK SHALL BE 1.5B 22GA GALV DECK BY VULCRAFT OR APPROVED EQUAL. (Ip= 0.155 IN /FT; In=0.183 /FT; Sn=0.192 /FT; Fy=33KSI). ATTACH DECK TO SUPPORTS USING 5/8" PUDDLE WELDS IN A 36/4 PATTERN AND 5-#10 TEK SCREW SIDE LAP FASTENERS.
2. REFERENCE 4/S1.4 FOR ROOF HATCH AND ROOF OPENING FRAME DETAIL.
3. REFERENCE 7/S1.4 FOR TYPICAL CONDENSER SUPPORT FRAMING PLAN AND 8/S1.3 FOR TYPICAL CONDENSER SUPPORT FRAMING DETAIL.
4. REFERENCE 3/S1.3 FOR TYPICAL WINDOW/DOOR/LOUVER OPENING DETAIL. COORDINATE LOCATIONS WITH MEP AND ARCHITECTURAL.
5. EXTERIOR METAL STUDS ARE SPACED AT 16" o/c MAXIMUM AND AT ROOF JOISTS. ADDITIONALLY AS REQUIRED AT EDGE OF EXTERIOR SHEATHING UNLESS NOTED OTHERWISE.
6. REFERENCE 1/S1.3 FOR TYPICAL STUD FRAMING AT EXTERIOR OUTSIDE CORNER AND 2/S1.3 FOR TYPICAL STUD FRAMING AT EXTERIOR INSIDE CORNER
7. REFERENCE SHEETS S3.7 FOR BRACE PROFILES.
8. REFERENCE SHEETS S3.7 FOR FRAME PROFILES.
9. INDICATES SHEAR WALL, REF DETAILS 11-15/S1.3. REFERENCE 16/S1.3 FOR SHEAR WALL FASTENING SCHEDULE
10. REFERENCE 8/S4.2 FOR TYPICAL HEADER SCHEDULE

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CITY PLACE
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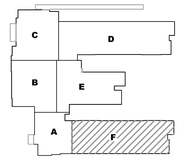

KEYPLAN

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PARTIAL JOIST FRAMING PLAN AREA F

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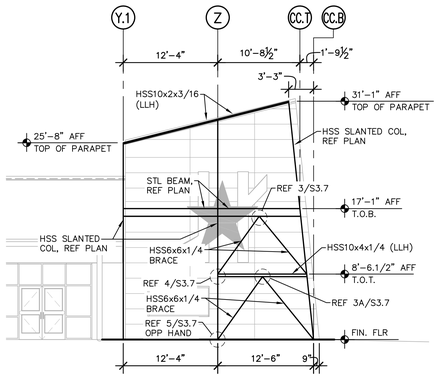

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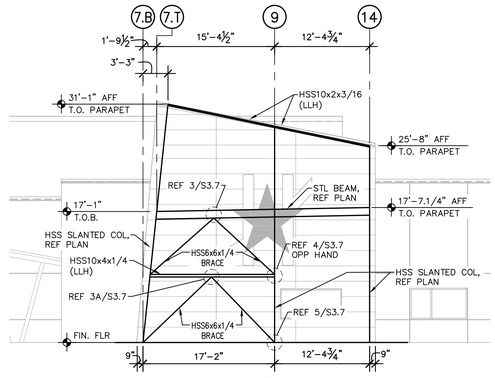

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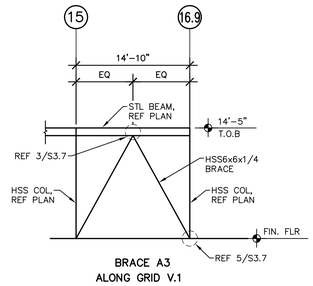
ALONG GRID CC.B



BRACE A3
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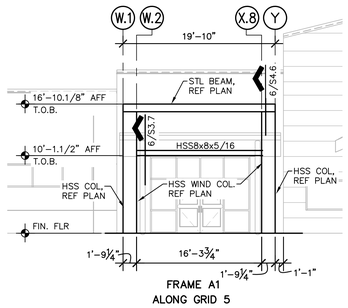
1 BRACE PROFILES
1/8" = 1'-0"



FRAME A1
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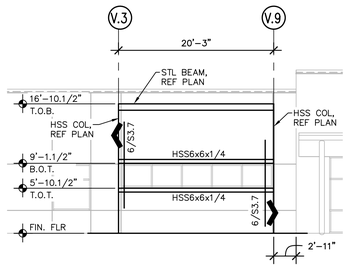

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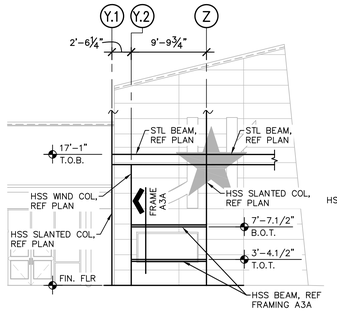

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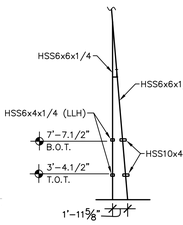

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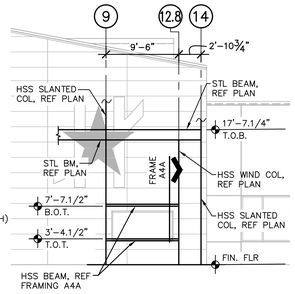

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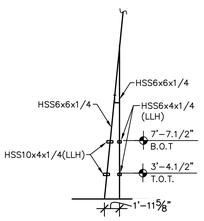
ALONG GRID CC



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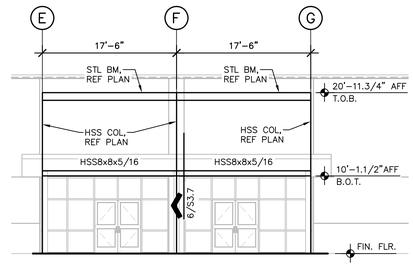

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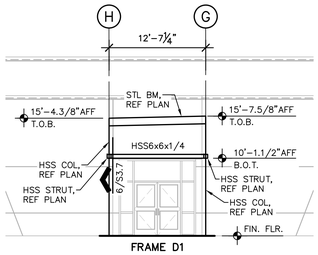

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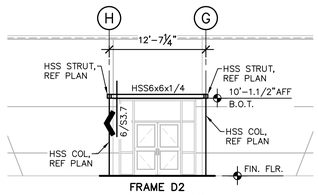

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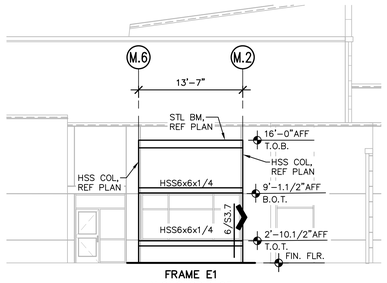

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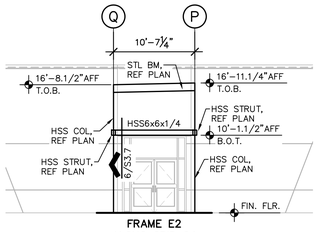

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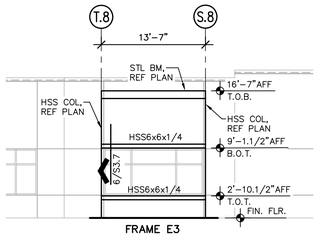

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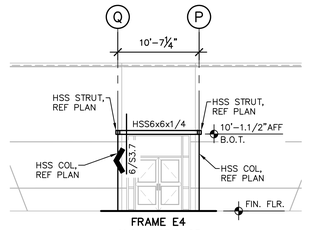

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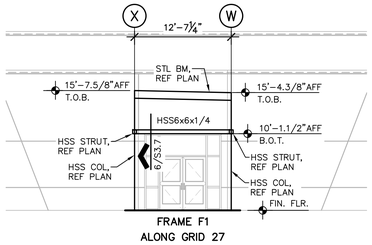

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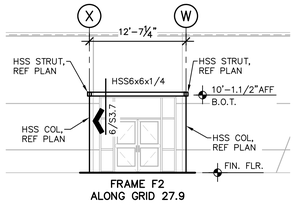

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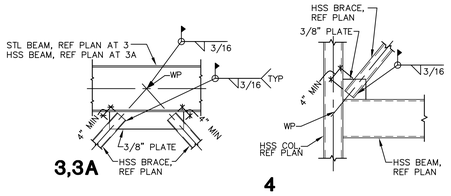

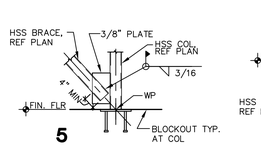

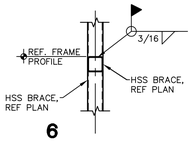

2 FRAME PROFILES
1/8" = 1'-0"

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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED STRUCTURAL ENGINEER — 6/29/2026

HARMONY PUBLIC SCHOOLS

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KEYPLAN

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BRACE AND FRAME PROFILES

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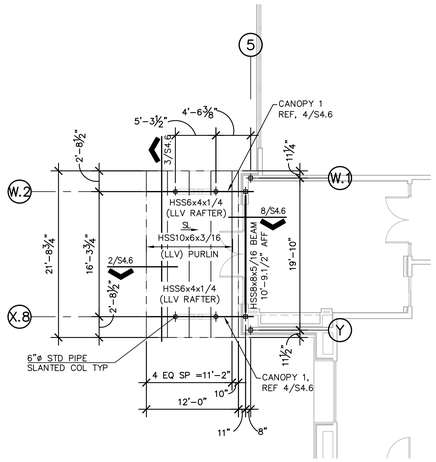
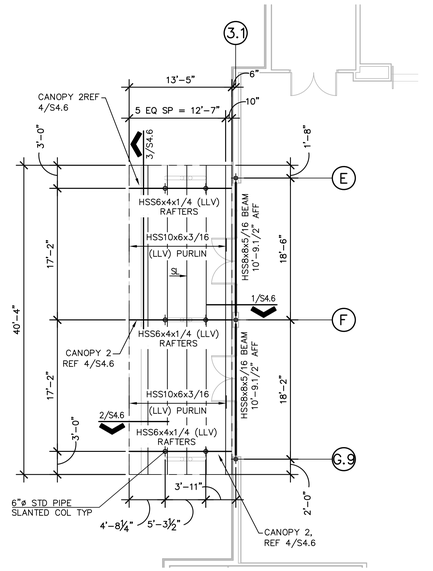


1 CANOPY 1 FRAMING PLAN

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





2 CANOPY 2 FRAMING PLAN

1/8" = 1'-0" AREA C



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CANOPY FRAMING PLANS

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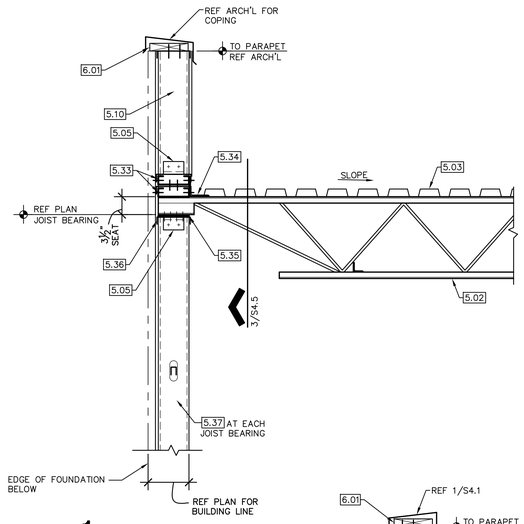

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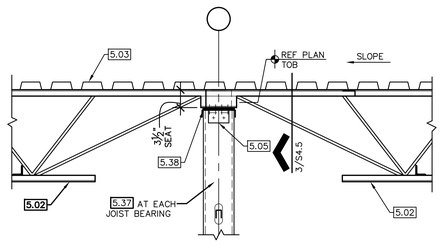
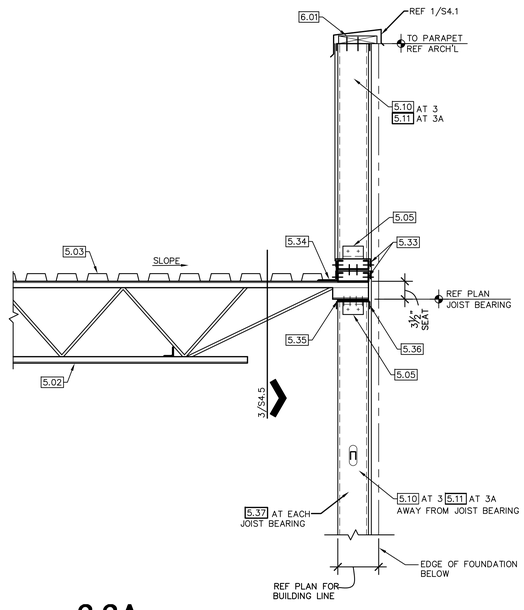


2 TYPICAL INTERIOR LOAD-BEARING METAL STUD WALL AT K SERIES JOIST

NOTE: REFER TO PLAN NOTES FOR ROOF DECK ATTACHMENT.



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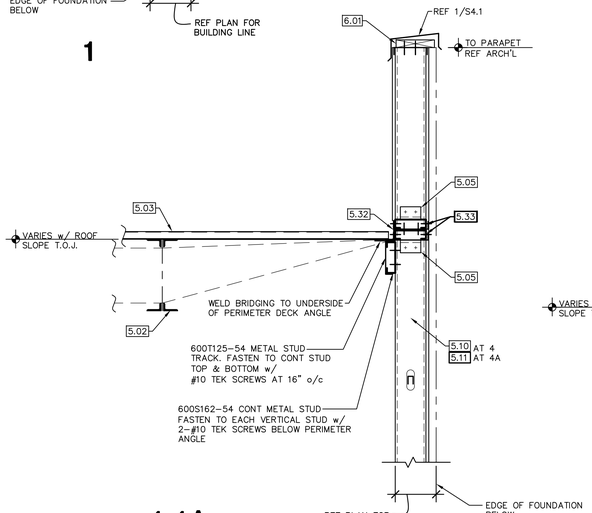

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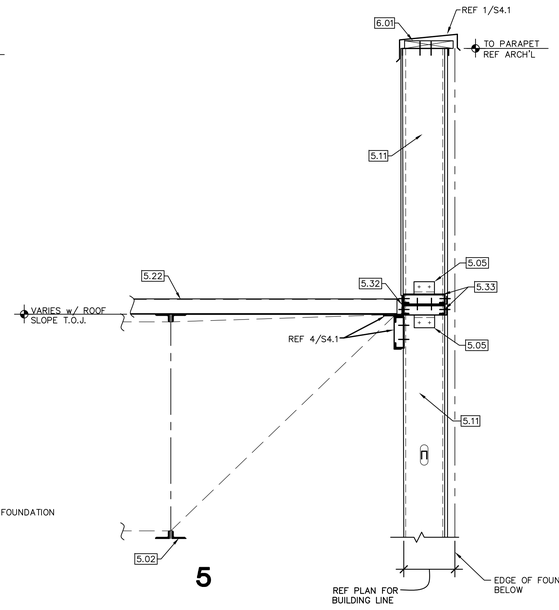

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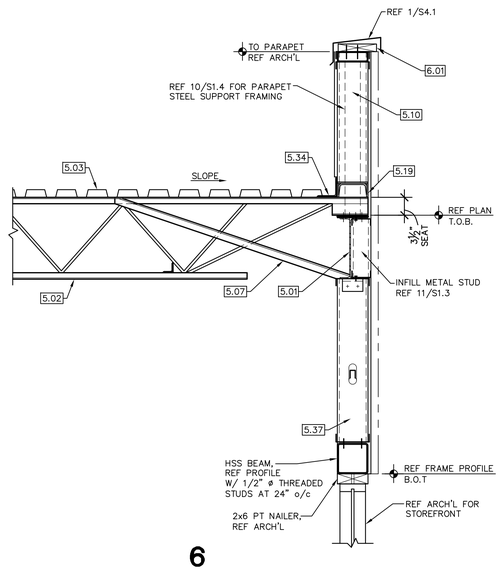

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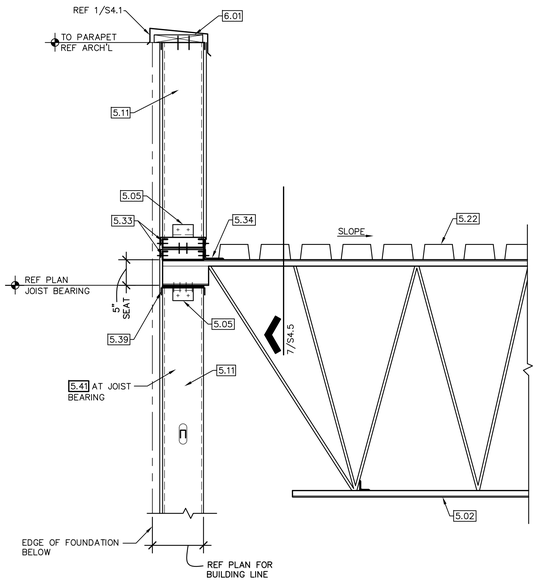

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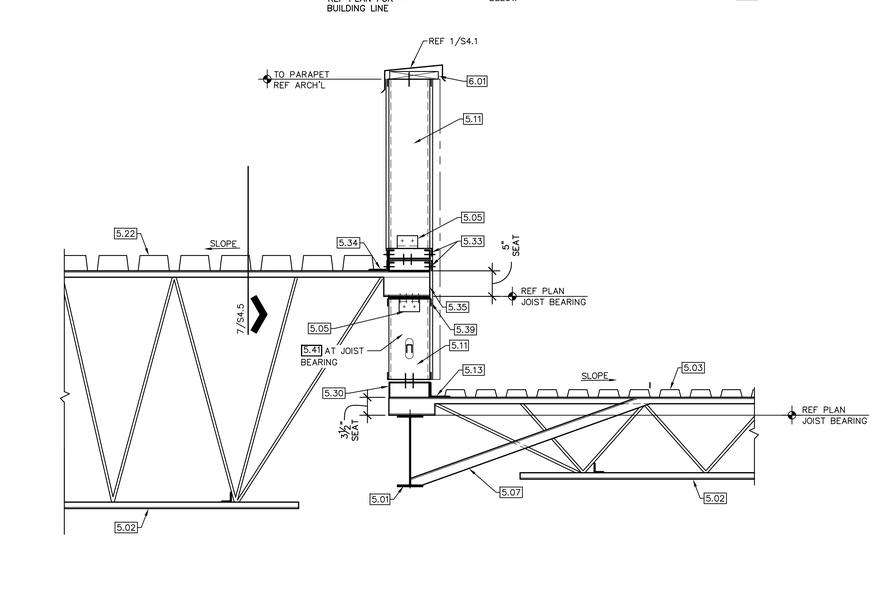

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KEY NOTES

DIVISION 4 MASONRY

- 4.01 HB-213-2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2-#10 TEK SCREWS

DIVISION 5 METALS

- 5.01 STEEL BEAM, REFERENCE PLAN
- 5.02 STEEL JOIST (REFERENCE PLAN) w/ JOIST BRIDGING PER JOIST DESIGNER
- 5.03 1.5B 22 GA GALVANIZED DECK, WELD DECK TO PERIMETER ANGLE AT 6" o/c
- 5.04 STEEL COLUMN, REFERENCE PLAN.
- 5.05 2x2x5.1/2"x14GA CLIP ANGLE AT EACH END OF SPAN, FASTEN TO STUD/BOX HEADER/HSS BM w/ 2-#10 TEK SCREWS
- 5.06 METAL STUD BOX HEADER AND JAMB FRAMING REF 3/S1.3
- 5.07 L2x2x1/4 BRACE AT EACH BAR JOIST. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.
- 5.08 L2x2x1/4 BRACE AT 5'-0" o/c. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.
- 5.09 STEEL OUTRIGGERS AT 5'-0" o/c MAX, REFERENCE PLAN
- 5.10 600S162-54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.
- 5.11 800S162-54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.
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- 5.13 L4x4x1/4 CONTINUOUS, WELD TO STEEL SUPPORT w/ 3/16" THICK FILLET WELD ALL AROUND.
- 5.14 3/8" FLAG PLATE, REF. 1/S1.4 FOR BEAM TO COLUMN CONNECTIONS
- 5.15 HSS4x4x1/4 AT 4'-0" o/c. WELD TO STEEL BEAM BOTTOM FLANGE AT TOP AND MC6 AT BOTTOM w/ 3/16" THK FILLET WELD ALL AROUND.
- 5.16 FAST CLIP SLIDE CLIP (FCSC) 5.1/2" FASTEN TO STEEL ANGLE WITH 3-0.157"ø POWDER ACTUATED FASTENERS AND TO EACH METAL STUD WITH 3-FAST CLIP DEFECTION SCREWS.
- 5.17 FAST TOP CLIP (FTC5) w/ 1.1/4" SLIP ALLOWANCE. FASTEN TO STL BM w/ 2-0.157"ø POWDER ACTUATED FASTENERS AND FASTEN TO EACH METAL STUD w/ 2-FAST CLIP DEFLECTION SCREWS.
- 5.18 L4x4x1/4 CONTINUOUS WITH 1/4" THICK STIFFENER PLATES AT EACH OUTRIGGER/JOIST. WELD ANGLE TO STEEL SUPPORT w/ 3/16" THK x2" LONG FILLET WELD AT 8" o/c TOP AND BOTTOM (STAGGERED).
- 5.19 MC6x15.1 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.
- 5.20 L8x4x5/16 LLH (HD GALV) CONT. WELD TO STEEL SUPPORTS w/ 3/16" THK FILLET WELD ALL AROUND.
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- 5.24 362S137-54 METAL STUD HANGERS (HD GALV) AT 24" o/c ALONG STEEL BEAM.
- 5.25 L3x3x16 GA x 0'-4" LONG CLIP ANGLE. FASTEN TO STEEL BEAM WITH 2-0.157"ø POWDER ACTUATED FASTENERS AND STUD WITH 4-#10 TEK SCREWS.
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- 5.29 MC10x22 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.
- 5.30 MC8x18.7 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD
- 5.31 REFERENCE DETAIL 10/S1.4 AND 11/S1.4 FOR PARAPET WALL ASSEMBLY DETAILS.
- 5.32 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND FASTEN TO EACH HORIZONTAL METAL STUD BLOCKING AT 1/3 POINTS w/ 2 #-10 TEK SCREWS.
- 5.33 METAL STUD BLOCKING CONTINUOUS ALONG PERIMETER ROOF ANGLE. MATCH SIZE AND GA OF VERTICAL STUD WALL.
- 5.34 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND WELD TO EACH BAR JOIST TOP CHORD w/ A 3/16" FILLET WELD.
- 5.35 ℄1/4"X10"XSTUD WALL WIDTH LOCATED AT CENTERLINE OF EACH BAR JOIST BEARING.
- 5.36 600T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.
- 5.37 DOUBLE LOAD-BEARING STUD MATCHING SIZE, WIDTH, AND GAGE OF STUD WALL.
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KEY NOTES CONTINUED

DIVISION 5 METALS

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- 6.02 7/16" THK APA AND FIRE RATED PLYWOOD SHEATHING. FASTEN TO METAL STUDS w/ #10-16 SCREWS AT 6" o/c ALONG EDGE OF SHEET AND 12" o/c ALONG INTERIOR SUPPORTS.

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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER — 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
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KEYPLAN

Project Number:	696-258
Drawing Date:	06/29/2026
Drawn:	DM, DC, HR
Checked:	BD

Revisions:

No.	Description	Date

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FRAMING DETAILS

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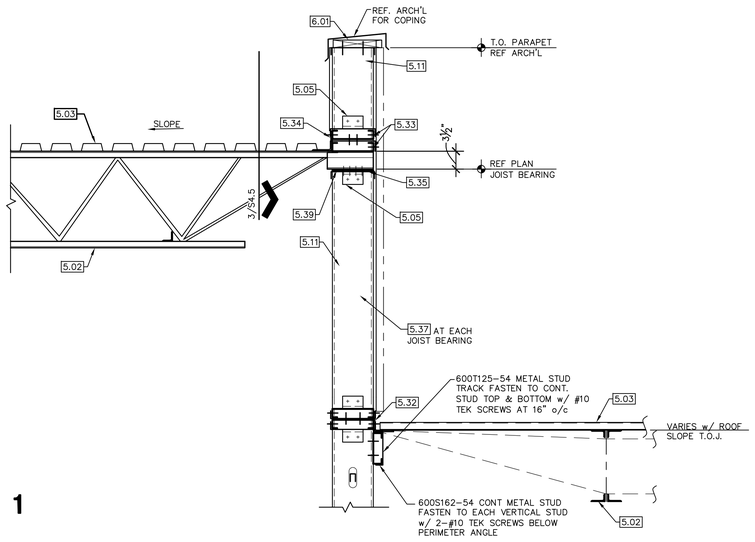

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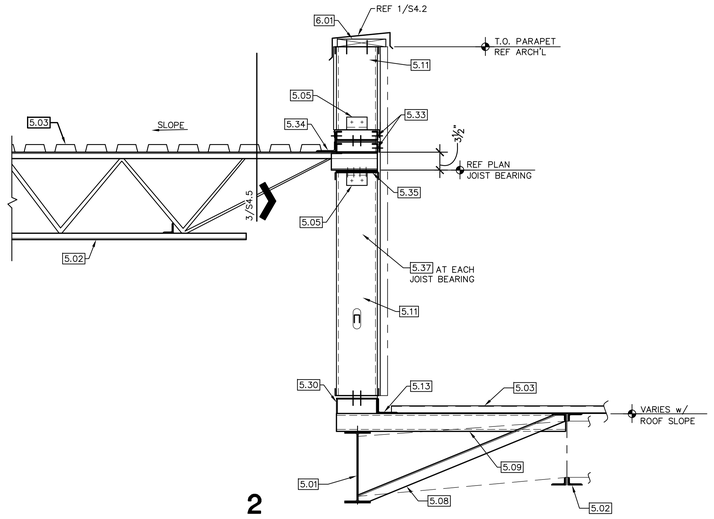

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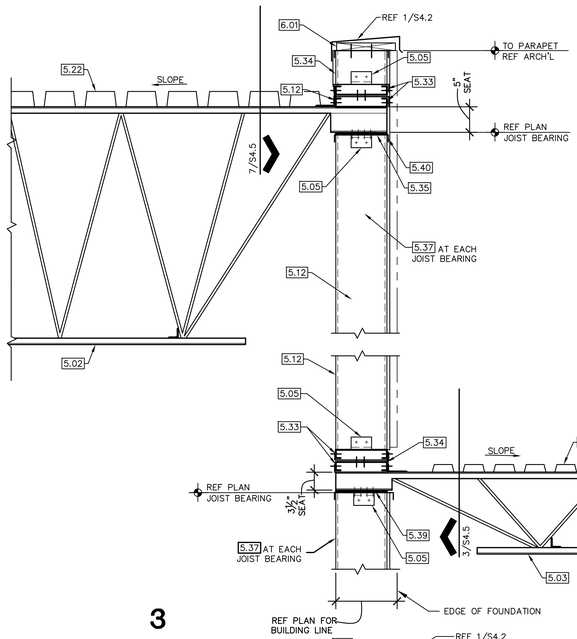

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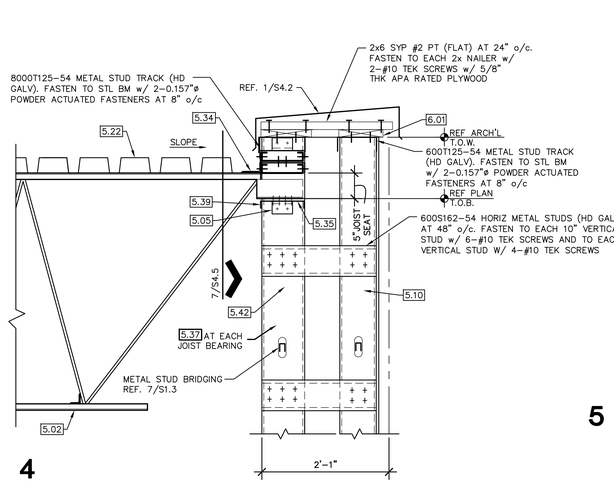

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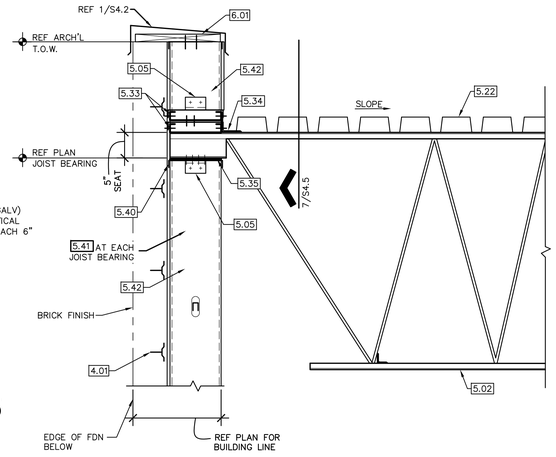

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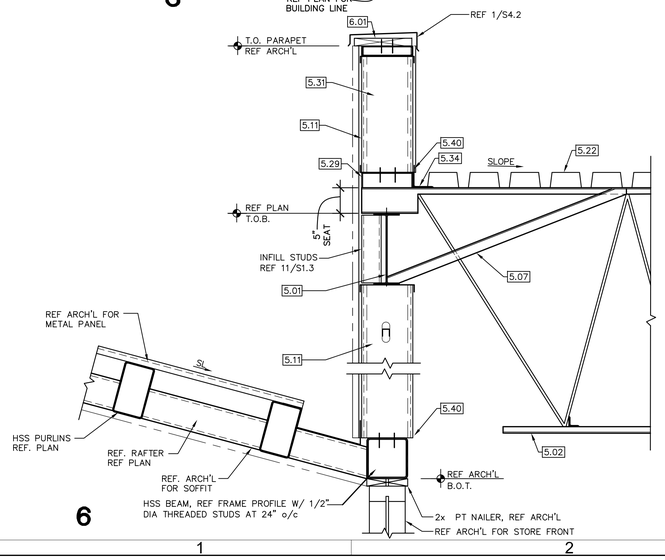

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WALL HEADER SCHEDULE	
MAX OPENING	HEADER SIZE
0 > 4'-0"	2-600S162-54 w/ 600T125-43
4'-1" > 7'-6"	2-600S162-68 w/ 600T125-43
EXTERIOR OPENINGS AT GYMNASIUM	2-10000S200-54 w/ 10000T125-54
*INDICATES TRACK CHANGE FROM 600T125-43 TO 800T125-43 AT 8" WALL	

8 TYPICAL WALL HEADER SCHEDULE

KEY NOTES

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STATE OF TEXAS — EDUARDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER
6/29/2026

HARMONY PUBLIC SCHOOLS

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SCIENCE ACADEMY HS/MS
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KEYPLAN

Project Number:	696-258
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Revisions:

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FRAMING DETAILS

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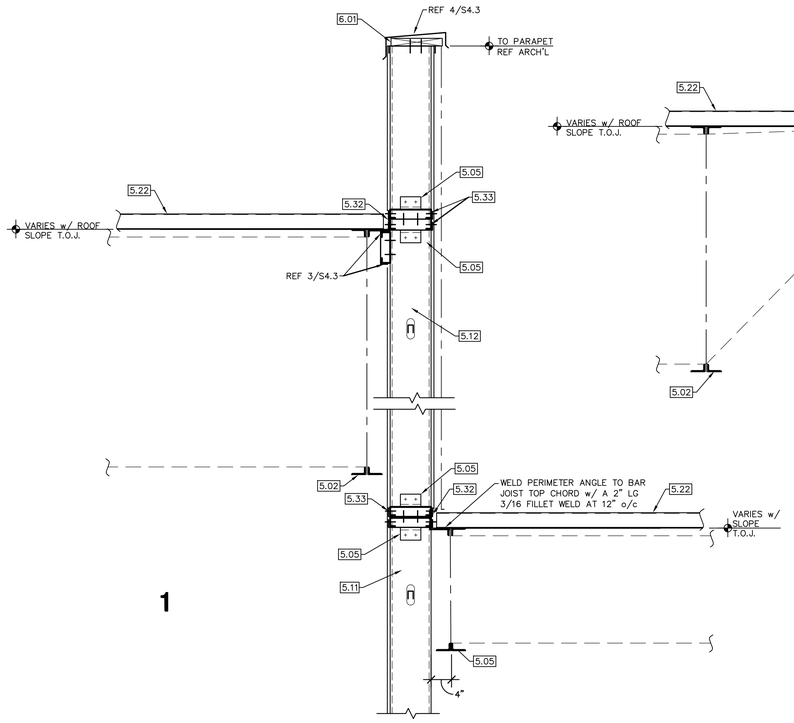

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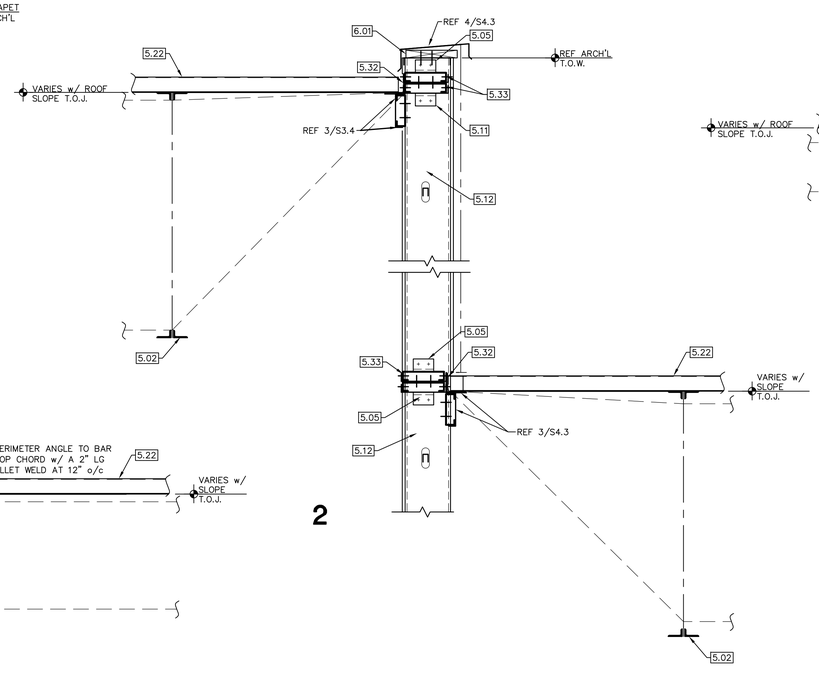

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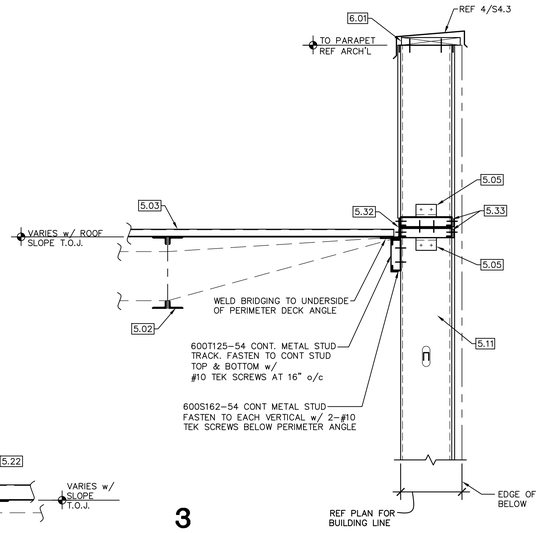

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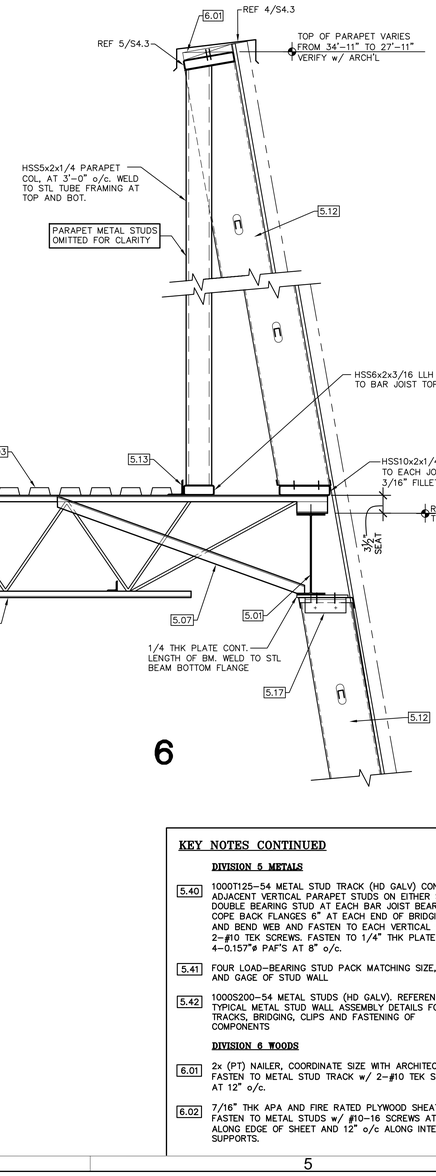

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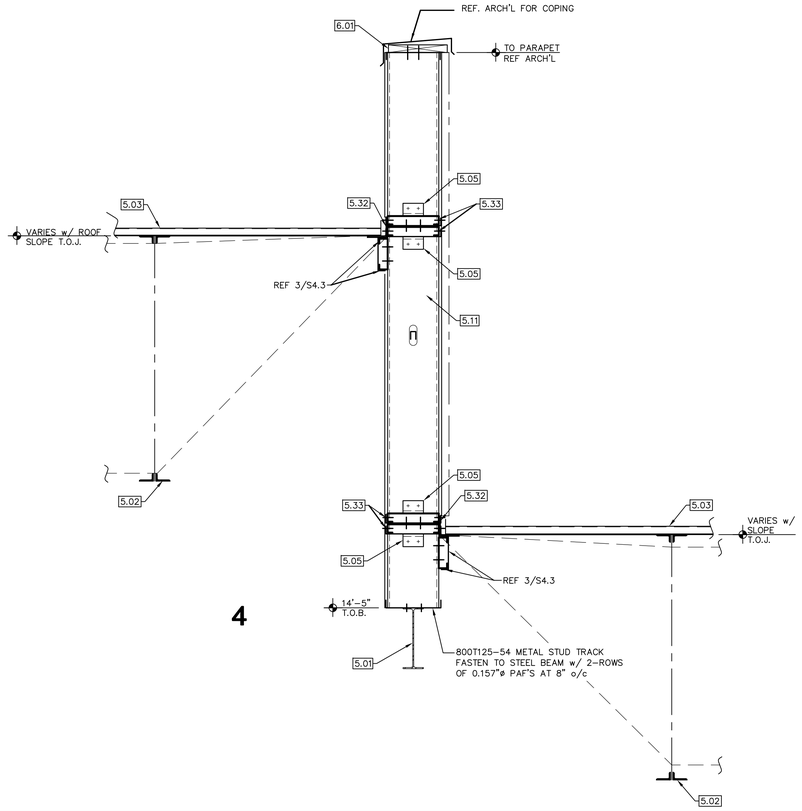

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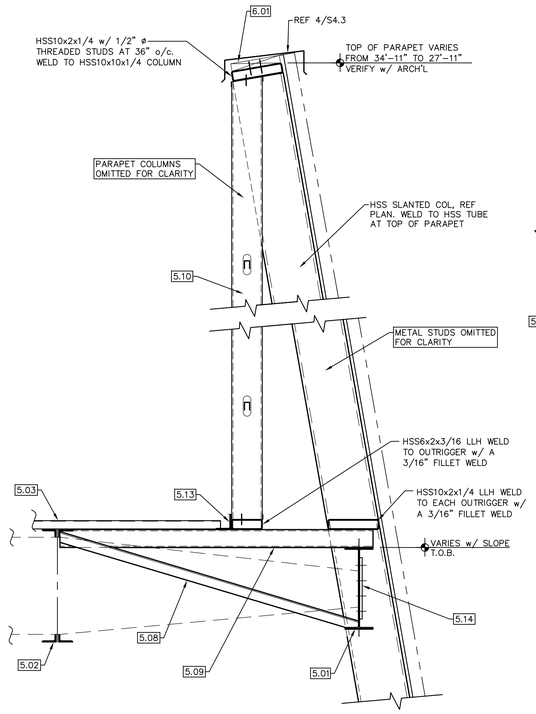

5

KEY NOTES

DIVISION 4 MASONRY

- 4.01 HB-213-2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2-#10 TEK SCREWS

DIVISION 5 METALS

- 5.01 STEEL BEAM, REFERENCE PLAN
- 5.02 STEEL JOIST (REFERENCE PLAN) w/ JOIST BRIDGING PER JOIST DESIGNER
- 5.03 1.5B 22 GA GALVANIZED DECK, WELD DECK TO PERIMETER ANGLE AT 6" o/c
- 5.04 STEEL COLUMN, REFERENCE PLAN.
- 5.05 2x2x5.1/2"x14GA CLIP ANGLE AT EACH END OF SPAN, FASTEN TO STUD/BOX HEADER/HSS BM w/ 2-#10 TEK SCREWS
- 5.06 METAL STUD BOX HEADER AND JAMB FRAMING REF 3/S1.3
- 5.07 L2x2x1/4 BRACE AT EACH BAR JOIST. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.
- 5.08 L2x2x1/4 BRACE AT 5'-0" o/c. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.
- 5.09 STEEL OUTRIGGERS AT 5'-0" o/c MAX, REFERENCE PLAN
- 5.10 600S162-54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.
- 5.11 800S162-54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.
- 5.12 1000S162-54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.
- 5.13 L4x4x1/4 CONTINUOUS, WELD TO STEEL SUPPORT w/ 3/16" THICK FILLET WELD ALL AROUND.
- 5.14 3/8" FLAG PLATE, REF. 1/S1.4 FOR BEAM TO COLUMN CONNECTIONS
- 5.15 HSS4x4x1/4 AT 4'-0" o/c. WELD TO STEEL BEAM BOTTOM FLANGE AT TOP AND MC6 AT BOTTOM w/ 3/16" THK FILLET WELD ALL AROUND.
- 5.16 FAST CLIP SLIDE CLIP (FCSC) 5.1/2" FASTEN TO STEEL ANGLE WITH 3-0.157"ø POWDER ACTUATED FASTENERS AND TO EACH METAL STUD WITH 3-FAST CLIP DEFECTION SCREWS.
- 5.17 FAST TOP CLIP (FTCS) w/ 1.1/4" SLIP ALLOWANCE. FASTEN TO STL BM w/ 2-0.157"ø POWDER ACTUATED FASTENERS AND FASTEN TO EACH METAL STUD w/ 2-FAST CLIP DEFLECTION SCREWS.
- 5.18 L4x4x1/4 CONTINUOUS WITH 1/4" THICK STIFFENER PLATES AT EACH OUTRIGGER/JOIST. WELD ANGLE TO STEEL SUPPORT w/ 3/16" THK x2" LONG FILLET WELD AT 8" o/c TOP AND BOTTOM (STAGGERED).
- 5.19 MC6x15.1 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.
- 5.20 L8x4x5/16 LLH (HD GALV) CONT. WELD TO STEEL SUPPORTS w/ 3/16" THK FILLET WELD ALL AROUND.
- 5.21 600S162-54 HORIZONTAL METAL STUDS FASTEN TO STUD/BOX HEADER/HSS BM w/ 2-#10 TEK SCREWS
- 5.22 3NLA-54 20GA GALVANIZED DECK. WELD TO PERIMETER ANGLE AT 6" o/c.
- 5.23 362S137-54 METAL STUDS (HD GALV) AT 24" o/c. FASTEN TO EACH HANGER WITH 4-#10 TEK SCREWS.
- 5.24 362S137-54 METAL STUD HANGERS (HD GALV) AT 24" o/c ALONG STEEL BEAM.
- 5.25 L3x3x16 GA x 0'-4" LONG CLIP ANGLE. FASTEN TO STEEL BEAM WITH 2-0.157"ø POWDER ACTUATED FASTENERS AND STUD WITH 4-#10 TEK SCREWS.
- 5.26 600S162-54 METAL STUD BRACE AT 16" o/c (HD GALV). FASTEN TO EACH VERTICAL STUD w/ 4-#10 TEK SCREWS.
- 5.27 8" EXTENDED FAST CLIP SLIDE CLIP (FCSC). FASTEN TO STEEL ANGLE WITH 3-0.157ø POWDER ACTUATED FASTENERS AND TO METAL STUDS WITH 3-FAST CLIP DEFLECTION SCREWS
- 5.28 10" EXTENDED FAST CLIP SLIDE CLIP (FC SC). FASTEN TO STEEL ANGLE WITH 3-0.157ø POWDER ACTUATED FASTENERS AND TO METAL STUDS WITH 3-FAST CLIP DEFLECTION SCREWS
- 5.29 MC10x22 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.
- 5.30 MC8x18.7 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD
- 5.31 REFERENCE DETAIL 10/S1.4 AND 11/S1.4 FOR PARAPET WALL ASSEMBLY DETAILS.
- 5.32 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND FASTEN TO EACH HORIZONTAL METAL STUD BLOCKING AT 1/3 POINTS w/ 2 #-10 TEK SCREWS.
- 5.33 METAL STUD BLOCKING CONTINUOUS ALONG PERIMETER ROOF ANGLE. MATCH SIZE AND GA OF VERTICAL STUD WALL.
- 5.34 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND WELD TO EACH BAR JOIST TOP CHORD w/ A 3/16" FILLET WELD.
- 5.35 R1/4"X10"XSTUD WALL WIDTH LOCATED AT CENTERLINE OF EACH BAR JOIST BEARING.
- 5.36 600T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.
- 5.37 DOUBLE LOAD-BEARING STUD MATCHING SIZE, WIDTH, AND GAGE OF STUD WALL.
- 5.38 R1/4"X18"X STUD WALL WIDTH LOCATED AT CENTERLINE BETWEEN ADJACENT STAGGERED BAR JOIST BEARING.
- 5.39 800T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

KEY NOTES CONTINUED

DIVISION 5 METALS

- 5.40 1000T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.
- 5.41 FOUR LOAD-BEARING STUD PACK MATCHING SIZE, WIDTH AND GAGE OF STUD WALL
- 5.42 1000S200-54 METAL STUDS (HD GALV). REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS

DIVISION 6 WOODS

- 6.01 2x (PT) NAILER, COORDINATE SIZE WITH ARCHITECT. FASTEN TO METAL STUD TRACK w/ 2-#10 TEK SCREWS AT 12" o/c.
- 6.02 7/16" THK APA AND FIRE RATED PLYWOOD SHEATHING. FASTEN TO METAL STUDS w/ #10-16 SCREWS AT 6" o/c ALONG EDGE OF SHEET AND 12" o/c ALONG INTERIOR SUPPORTS.

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SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
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VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

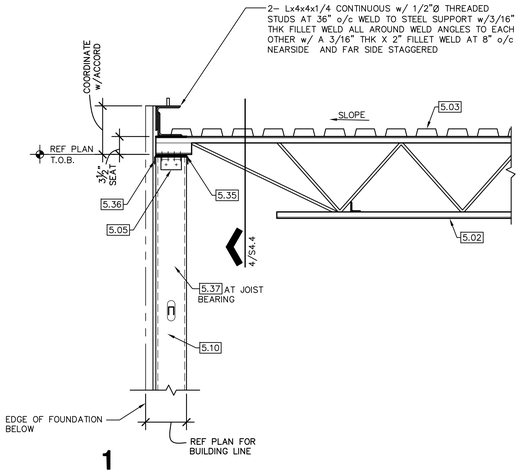
Project Number:	696-258
Drawing Date:	06/29/2026
Drawn:	DM, DC, HR
Checked:	BD

Revisions:

No.	Description	Date

Sheet Title:
FRAMING DETAILS

S4.3



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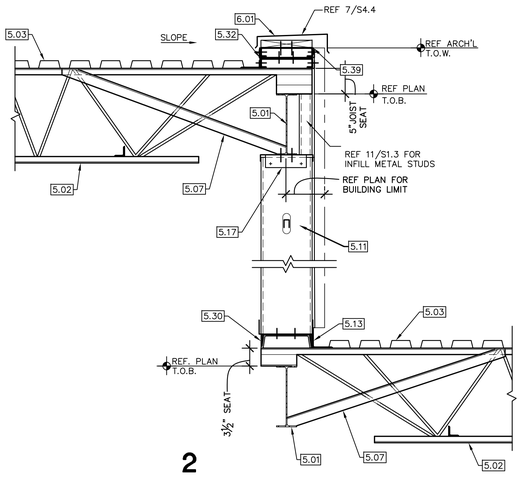

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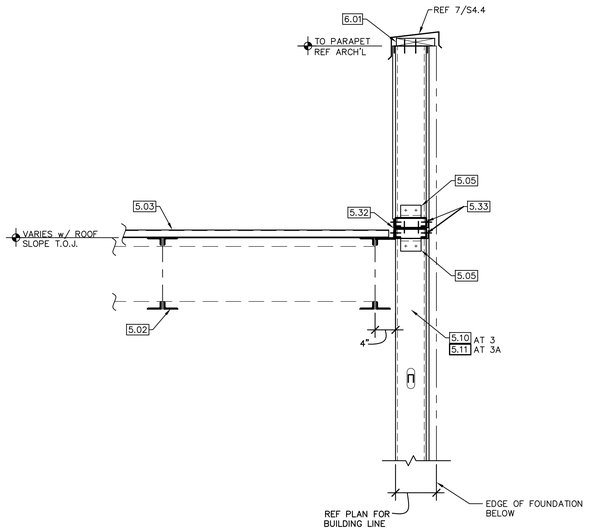

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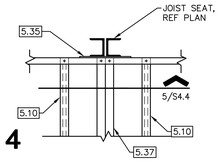

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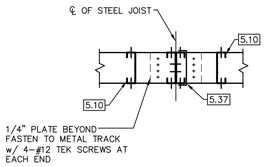

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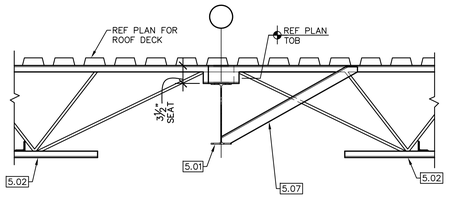
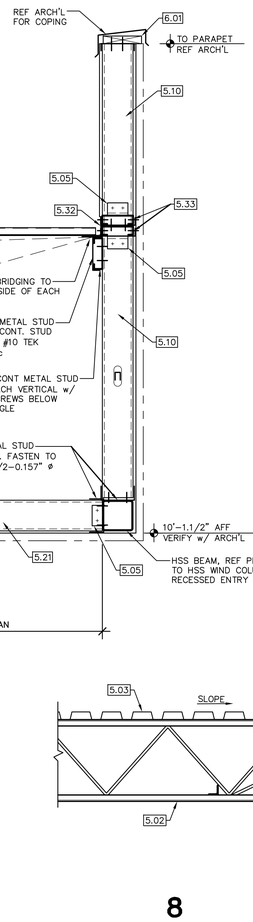
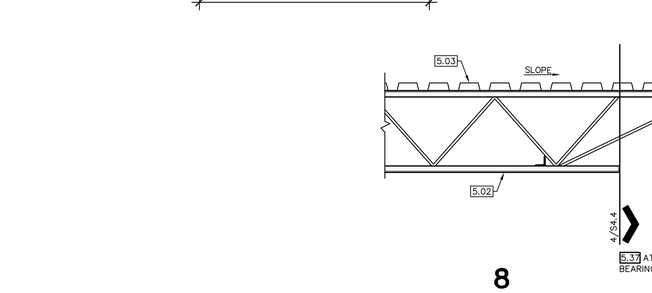


6 **TYPICAL INTERIOR BEAM**

NOTE: REFER TO PLAN NOTES FOR ROOF DECK ATTACHMENT.





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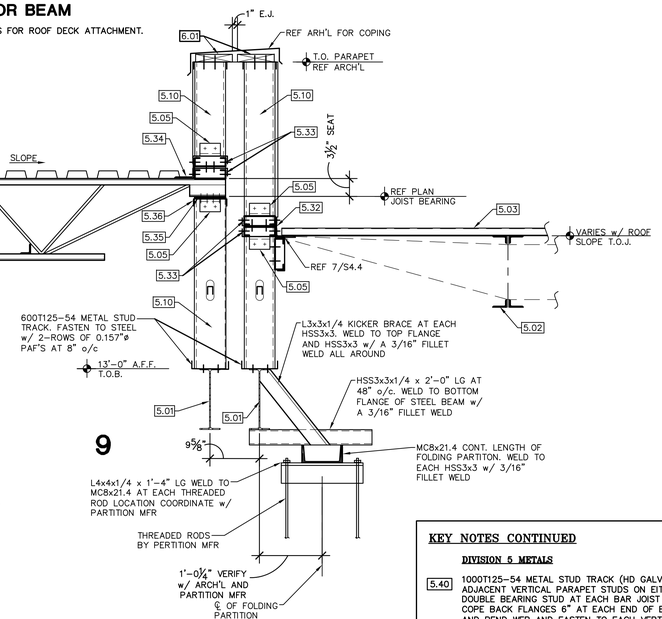

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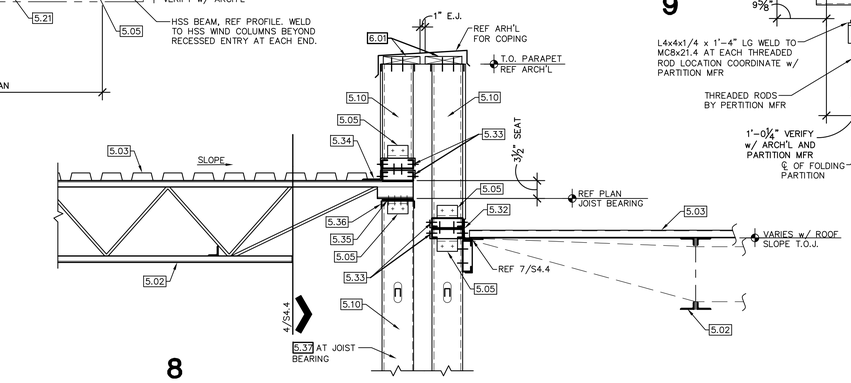

8

KEY NOTES

DIVISION 4 MASONRY

4.01 HB–213–2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2–#10 TEK SCREWS

DIVISION 5 METALS

5.01 STEEL BEAM, REFERENCE PLAN

5.02 STEEL JOIST (REFERENCE PLAN) w/ JOIST BRIDGING PER JOIST DESIGNER

5.03 1.5B 22 GA GALVANIZED DECK, WELD DECK TO PERIMETER ANGLE AT 6" o/c

5.04 STEEL COLUMN, REFERENCE PLAN.

5.05 2x2x5.1/2"x14GA CLIP ANGLE AT EACH END OF SPAN, FASTEN TO STUD/BOX HEADER/HSS BM w/ 2–#10 TEK SCREWS

5.06 METAL STUD BOX HEADER AND JAMB FRAMING REF 3/S1.3

5.07 L2x2x1/4 BRACE AT EACH BAR JOIST. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.

5.08 L2x2x1/4 BRACE AT 5'–0" o/c. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.

5.09 STEEL OUTRIGGERS AT 5'–0" o/c MAX, REFERENCE PLAN

5.10 600S162–54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.

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5.13 L4x4x1/4 CONTINUOUS, WELD TO STEEL SUPPORT w/ 3/16" THICK FILLET WELD ALL AROUND.

5.14 3/8" FLAG PLATE, REF. 1/S1.4 FOR BEAM TO COLUMN CONNECTIONS

5.15 HSS4x4x1/4 AT 4'–0" o/c. WELD TO STEEL BEAM BOTTOM FLANGE AT TOP AND MC6 AT BOTTOM w/ 3/16" THK FILLET WELD ALL AROUND.

5.16 FAST CLIP SLIDE CLIP (FCSC) 5.1/2" FASTEN TO STEEL ANGLE WITH 3–0.157"ø POWDER ACTUATED FASTENERS AND TO EACH METAL STUD WITH 3–FAST CLIP DEFECTION SCREWS.

5.17 FAST TOP CLIP (FTCS) w/ 1.1/4" SLIP ALLOWANCE. FASTEN TO STL BM w/ 2–0.157"ø POWDER ACTUATED FASTENERS AND FASTEN TO EACH METAL STUD w/ 2–FAST CLIP DEFLECTION SCREWS.

5.18 L4x4x1/4 CONTINUOUS WITH 1/4" THICK STIFFENER PLATES AT EACH OUTRIGGER/JOIST. WELD ANGLE TO STEEL SUPPORT w/ 3/16" THK x2" LONG FILLET WELD AT 8" o/c TOP AND BOTTOM (STAGGERED).

5.19 MC6x15.1 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.

5.20 L8x4x5/16 LLH (HD GALV) CONT. WELD TO STEEL SUPPORTS w/ 3/16" THK FILLET WELD ALL AROUND.

5.21 600S162–54 HORIZONTAL METAL STUDS FASTEN TO STUD/BOX HEADER/HSS BM w/ 2–#10 TEK SCREWS

5.22 3NLA–54 20GA GALVANIZED DECK. WELD TO PERIMETER ANGLE AT 6" o/c.

5.23 362S137–54 METAL STUDS (HD GALV) AT 24" o/c. FASTEN TO EACH HANGER WITH 4–#10 TEK SCREWS.

5.24 362S137–54 METAL STUD HANGERS (HD GALV) AT 24" o/c ALONG STEEL BEAM.

5.25 L3x3x16 GA x 0'–4" LONG CLIP ANGLE. FASTEN TO STEEL BEAM WITH 2–0.157"ø POWDER ACTUATED FASTENERS AND STUD WITH 4–#10 TEK SCREWS.

5.26 600S162–54 METAL STUD BRACE AT 16" o/c (HD GALV). FASTEN TO EACH VERTICAL STUD w/ 4–#10 TEK SCREWS.

5.27 8" EXTENDED FAST CLIP SLIDE CLIP (FCSC). FASTEN TO STEEL ANGLE WITH 3–0.157"ø POWDER ACTUATED FASTENERS AND TO METAL STUDS WITH 3–FAST CLIP DEFLECTION SCREWS

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5.29 MC10x22 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.

5.30 MC8x18.7 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD

5.31 REFERENCE DETAIL 10/S1.4 AND 11/S1.4 FOR PARAPET WALL ASSEMBLY DETAILS.

5.32 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2–#10 TEK SCREWS AND FASTEN TO EACH HORIZONTAL METAL STUD BLOCKING AT 1/3 POINTS w/ 2 #–10 TEK SCREWS.

5.33 METAL STUD BLOCKING CONTINUOUS ALONG PERIMETER ROOF ANGLE. MATCH SIZE AND GA OF VERTICAL STUD WALL.

5.34 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2–#10 TEK SCREWS AND WELD TO EACH BAR JOIST TOP CHORD w/ A 3/16" FILLET WELD.

5.35 R1/4"X10"XSTUD WALL WIDTH LOCATED AT CENTERLINE OF EACH BAR JOIST BEARING.

5.36 600T125–54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2–#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4–0.157"ø PAF'S AT 8" o/c.

5.37 DOUBLE LOAD–BEARING STUD MATCHING SIZE, WIDTH, AND GAGE OF STUD WALL.

5.38 R1/4"X18"X STUD WALL WIDTH LOCATED AT CENTERLINE BETWEEN ADJACENT STAGGERED BAR JOIST BEARING.

5.39 800T125–54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2–#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4–0.157"ø PAF'S AT 8" o/c.

KEY NOTES CONTINUED

DIVISION 5 METALS

5.40 1000T125–54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2–#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4–0.157"ø PAF'S AT 8" o/c.

5.41 FOUR LOAD–BEARING STUD PACK MATCHING SIZE, WIDTH AND GAGE OF STUD WALL

5.42 1000S200–54 METAL STUDS (HD GALV). REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS

DIVISION 6 WOODS

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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER — 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

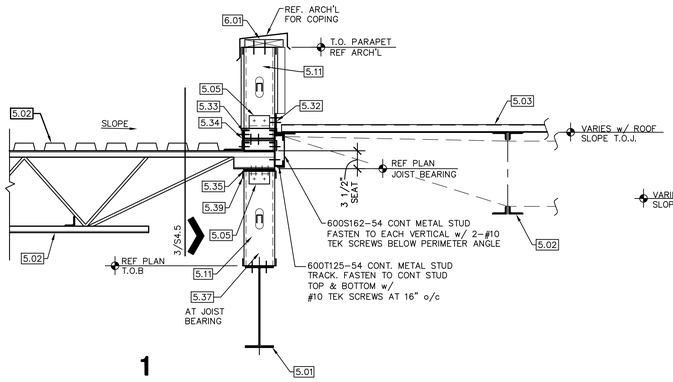
Project Number:	696-258
Drawing Date:	06/29/2026
Drawn:	DM, DC, HR
Checked:	BD

Revisions:

No.	Description	Date

Sheet Title:
FRAMING DETAILS

S4.4



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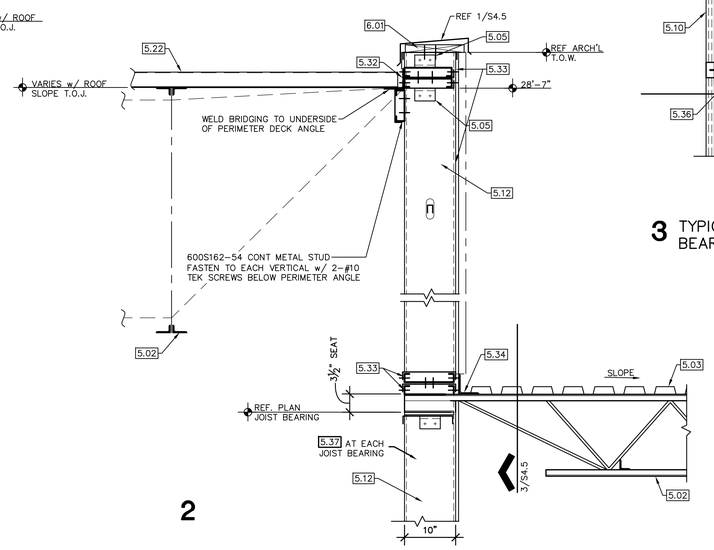

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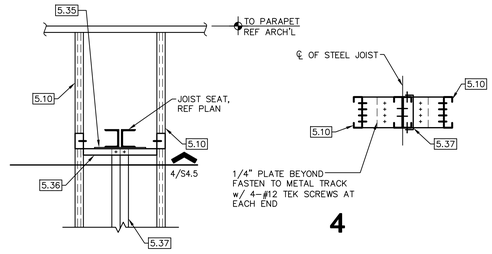

3 TYPICAL K SERIES JOIST BEARING DETAIL

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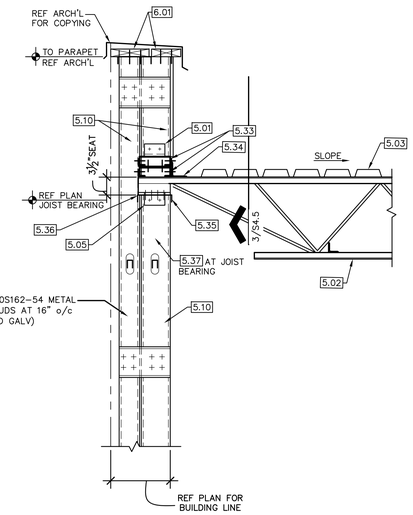

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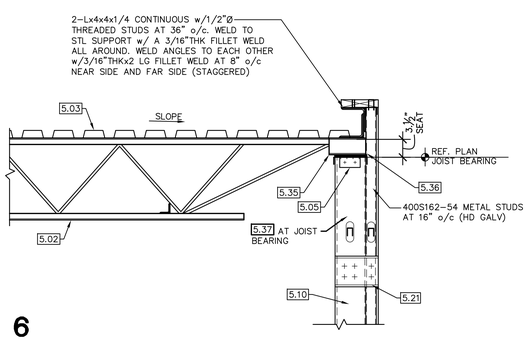

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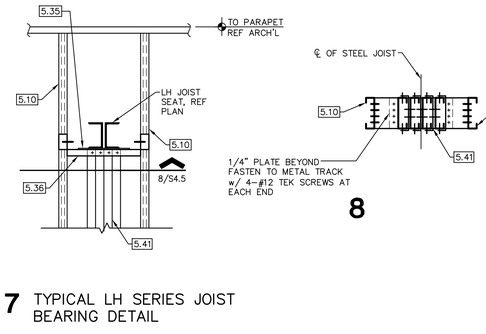

7 TYPICAL LH SERIES JOIST BEARING DETAIL

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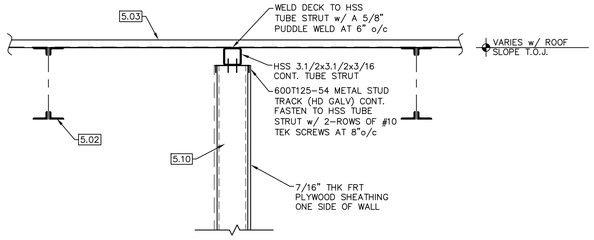
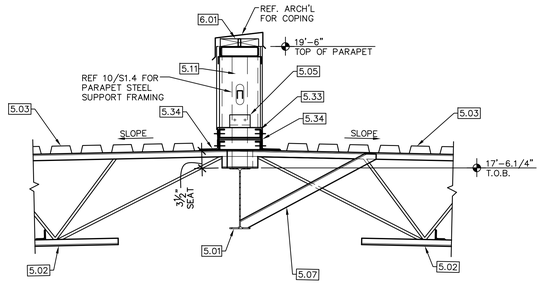


9 HSS TUBE STRUT AT INTERIOR SHEAR WALLS



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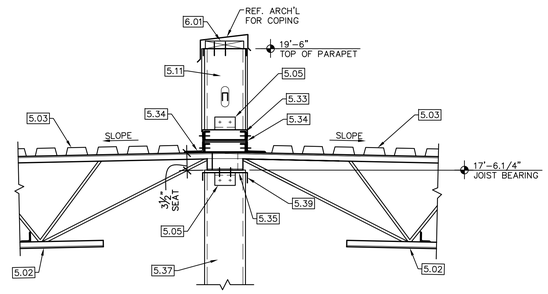

11

KEY NOTES

DIVISION 4 MASONRY

4.01 HB-213-2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2-#10 TEK SCREWS

DIVISION 5 METALS

5.01 STEEL BEAM, REFERENCE PLAN

5.02 STEEL JOIST (REFERENCE PLAN) w/ JOIST BRIDGING PER JOIST DESIGNER

5.03 1.5B 22 GA GALVANIZED DECK, WELD DECK TO PERIMETER ANGLE AT 6" o/c

5.04 STEEL COLUMN, REFERENCE PLAN.

5.05 2x2x5.1/2"x14GA CLIP ANGLE AT EACH END OF SPAN, FASTEN TO STUD/BOX HEADER/HSS BM w/ 2-#10 TEK SCREWS

5.06 METAL STUD BOX HEADER AND JAMB FRAMING REF 3/S1.3

5.07 L2x2x1/4 BRACE AT EACH BAR JOIST. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.

5.08 L2x2x1/4 BRACE AT 5'-0" o/c. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.

5.09 STEEL OUTRIGGERS AT 5'-0" o/c MAX, REFERENCE PLAN

5.10 600S162-54 METAL STUDS (HD GALV) AT 16" o/c. REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS.

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5.13 L4x4x1/4 CONTINUOUS, WELD TO STEEL SUPPORT w/ 3/16" THICK FILLET WELD ALL AROUND.

5.14 3/8" FLAG PLATE, REF. 1/S1.4 FOR BEAM TO COLUMN CONNECTIONS

5.15 HSS4x4x1/4 AT 4'-0" o/c. WELD TO STEEL BEAM BOTTOM FLANGE AT TOP AND MC6 AT BOTTOM w/ 3/16" THK FILLET WELD ALL AROUND.

5.16 FAST CLIP SLIDE CLIP (FCSC) 5.1/2" FASTEN TO STEEL ANGLE WITH 3-0.157"ø POWDER ACTUATED FASTENERS AND TO EACH METAL STUD WITH 3-FAST CLIP DEFECTION SCREWS.

5.17 FAST TOP CLIP (FTCS) w/ 1.1/4" SLIP ALLOWANCE. FASTEN TO STL BM w/ 2-0.157"ø POWDER ACTUATED FASTENERS AND FASTEN TO EACH METAL STUD w/ 2-FAST CLIP DEFLECTION SCREWS.

5.18 L4x4x1/4 CONTINUOUS WITH 1/4" THICK STIFFENER PLATES AT EACH OUTRIGGER/JOIST. WELD ANGLE TO STEEL SUPPORT w/ 3/16" THK x2" LONG FILLET WELD AT 8" o/c TOP AND BOTTOM (STAGGERED).

5.19 MC6x15.1 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.

5.20 L8x4x5/16 LLH (HD GALV) CONT. WELD TO STEEL SUPPORTS w/ 3/16" THK FILLET WELD ALL AROUND.

5.21 600S162-54 HORIZONTAL METAL STUDS FASTEN TO STUD/BOX HEADER/HSS BM w/ 2-#10 TEK SCREWS

5.22 3NLA-54 20GA GALVANIZED DECK. WELD TO PERIMETER ANGLE AT 6" o/c.

5.23 362S137-54 METAL STUDS (HD GALV) AT 24" o/c. FASTEN TO EACH HANGER WITH 4-#10 TEK SCREWS.

5.24 362S137-54 METAL STUD HANGERS (HD GALV) AT 24" o/c ALONG STEEL BEAM.

5.25 L3x3x16 GA x 0'-4" LONG CLIP ANGLE. FASTEN TO STEEL BEAM WITH 2-0.157"ø POWDER ACTUATED FASTENERS AND STUD WITH 4-#10 TEK SCREWS.

5.26 600S162-54 METAL STUD BRACE AT 16" o/c (HD GALV). FASTEN TO EACH VERTICAL STUD w/ 4-#10 TEK SCREWS.

5.27 8" EXTENDED FAST CLIP SLIDE CLIP (FCSC). FASTEN TO STEEL ANGLE WITH 3-0.157"ø POWDER ACTUATED FASTENERS AND TO METAL STUDS WITH 3-FAST CLIP DEFLECTION SCREWS

5.28 10" EXTENDED FAST CLIP SLIDE CLIP (FC SC). FASTEN TO STEEL ANGLE WITH 3-0.157"ø POWDER ACTUATED FASTENERS AND TO METAL STUDS WITH 3-FAST CLIP DEFLECTION SCREWS

5.29 MC10x22 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD.

5.30 MC8x18.7 CONT. WELD TO EACH OUTRIGGER/JOIST w/ 3/16" FILLET WELD

5.31 REFERENCE DETAIL 10/S1.4 AND 11/S1.4 FOR PARAPET WALL ASSEMBLY DETAILS.

5.32 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND FASTEN TO EACH HORIZONTAL METAL STUD BLOCKING AT 1/3 POINTS w/ 2 #-10 TEK SCREWS.

5.33 METAL STUD BLOCKING CONTINUOUS ALONG PERIMETER ROOF ANGLE. MATCH SIZE AND GA OF VERTICAL STUD WALL.

5.34 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND WELD TO EACH BAR JOIST TOP CHORD w/ A 3/16" FILLET WELD.

5.35 R1/4"X10"XSTUD WALL WIDTH LOCATED AT CENTERLINE OF EACH BAR JOIST BEARING.

5.36 600T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

5.37 DOUBLE LOAD-BEARING STUD MATCHING SIZE, WIDTH, AND GAGE OF STUD WALL.

5.38 R1/4"X18"X STUD WALL WIDTH LOCATED AT CENTERLINE BETWEEN ADJACENT STAGGERED BAR JOIST BEARING.

5.39 800T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

KEY NOTES CONTINUED

DIVISION 5 METALS

5.40 1000T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

5.41 FOUR LOAD-BEARING STUD PACK MATCHING SIZE, WIDTH AND GAGE OF STUD WALL

5.42 1000S200-54 METAL STUDS (HD GALV). REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS

DIVISION 6 WOODS

6.01 2x (PT) NAILER, COORDINATE SIZE WITH ARCHITECT. FASTEN TO METAL STUD TRACK w/ 2-#10 TEK SCREWS AT 12" o/c.

6.02 7/16" THK APA AND FIRE RATED PLYWOOD SHEATHING. FASTEN TO METAL STUDS w/ #10-16 SCREWS AT 6" o/c ALONG EDGE OF SHEET AND 12" o/c ALONG INTERIOR SUPPORTS.

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STATE OF TEXAS — EDUARDO R. RUBIANO — 86369 — LICENSED PROFESSIONAL ENGINEER
6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

KEYPLAN

Project Number:	696-258
Drawing Date:	06/29/2026
Drawn:	DM, DC, HR
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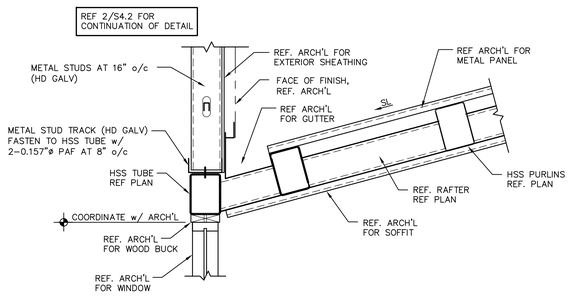
Revisions:

No.	Description	Date

Sheet Title:
FRAMING DETAILS

S4.5



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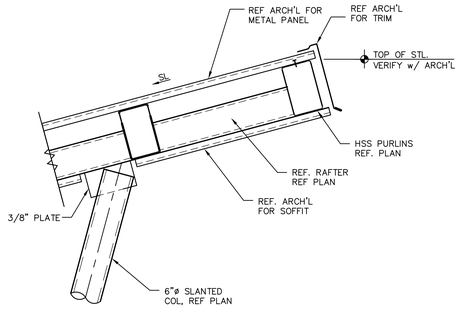

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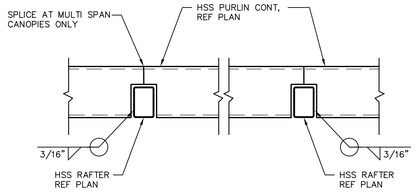

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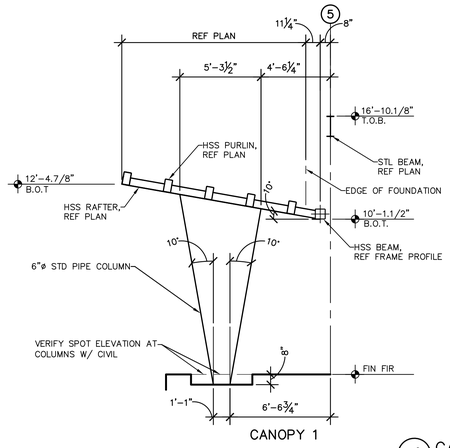

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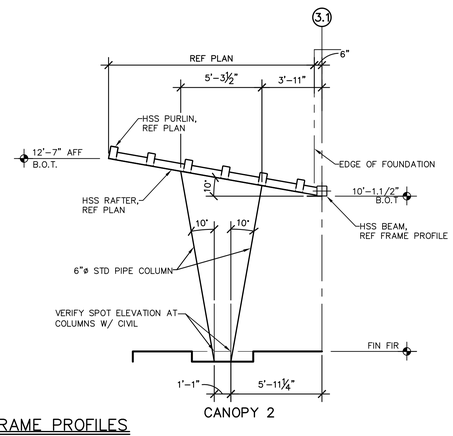

CANOPY 2

4 CANOPY FRAME PROFILES
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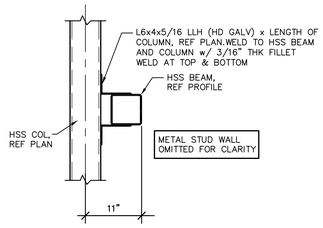

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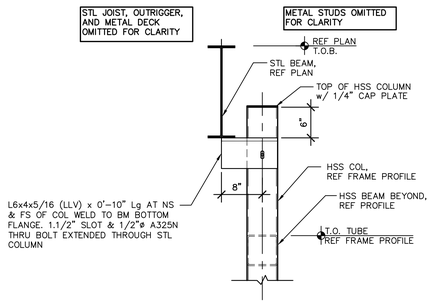
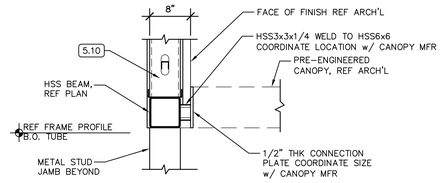


6 TYP WIND COLUMN CONNECTION DETAIL



7

KEY NOTES

DIVISION 4 MASONRY

4.01 HB-213-2X VENEER ANCHOR PLATES (HD GALV) AT 16" o/c VERTICALLY ALONG EACH STUD, FASTEN TO EACH STUD w/ 2-#10 TEK SCREWS

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5.01 STEEL BEAM, REFERENCE PLAN

5.02 STEEL JOIST (REFERENCE PLAN) w/ JOIST BRIDGING PER JOIST DESIGNER

5.03 1.5B 22 GA GALVANIZED DECK, WELD DECK TO PERIMETER ANGLE AT 6' o/c

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5.08 L2x2x1/4 BRACE AT 5'-0" o/c. WELD TO BEAM BOTTOM FLANGE AND TOP CHORD OF BAR JOIST AT PANEL POINT AFTER ROOF DEAD LOAD IS APPLIED.

5.09 STEEL OUTRIGGERS AT 5'-0" o/c MAX, REFERENCE PLAN

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5.17 FAST TOP CLIP (FTC5) w/ 1.1/4" SLIP ALLOWANCE. FASTEN TO STL BM w/ 2-0.157"ø POWDER ACTUATED FASTENERS AND FASTEN TO EACH METAL STUD w/ 2-FAST CLIP DEFLECTION SCREWS.

5.18 L4x4x1/4 CONTINUOUS WITH 1/4" THICK STIFFENER PLATES AT EACH OUTRIGGER/JOIST. WELD ANGLE TO STEEL SUPPORT w/ 3/16" THK x2" LONG FILLET WELD AT 8" o/c TOP AND BOTTOM (STAGGERED).

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5.28 10" EXTENDED FAST CLIP SLIDE CLIP (FC SC). FASTEN TO STEEL ANGLE WITH 3-0.157ø POWDER ACTUATED FASTENERS AND TO METAL STUDS WITH 3-FAST CLIP DEFLECTION SCREWS

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5.32 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND FASTEN TO EACH HORIZONTAL METAL STUD BLOCKING AT 1/3 POINTS w/ 2 #-10 TEK SCREWS.

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5.34 L4X4X1/4 CONT. FASTEN TO EACH VERTICAL METAL STUD w/ 2-#10 TEK SCREWS AND WELD TO EACH BAR JOIST TOP CHORD w/ A 3/16" FILLET WELD.

5.35 R1/4"X10"XSTUD WALL WIDTH LOCATED AT CENTERLINE OF EACH BAR JOIST BEARING.

5.36 600T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

5.37 DOUBLE LOAD-BEARING STUD MATCHING SIZE, WIDTH, AND GAGE OF STUD WALL.

5.38 R1/4"X18"X STUD WALL WIDTH LOCATED AT CENTERLINE BETWEEN ADJACENT STAGGERED BAR JOIST BEARING.

5.39 800T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

KEY NOTES CONTINUED

DIVISION 5 METALS

5.40 1000T125-54 METAL STUD TRACK (HD GALV) CONT TO ADJACENT VERTICAL PARAPET STUDS ON EITHER SIDE OF DOUBLE BEARING STUD AT EACH BAR JOIST BEARING. COPE BACK FLANGES 6" AT EACH END OF BRIDGING STUD AND BEND WEB AND FASTEN TO EACH VERTICAL STUD w/ 2-#10 TEK SCREWS. FASTEN TO 1/4" THK PLATE w/ 4-0.157"ø PAF'S AT 8" o/c.

5.41 FOUR LOAD-BEARING STUD PACK MATCHING SIZE, WIDTH AND GAGE OF STUD WALL

5.42 1000S200-54 METAL STUDS (HD GALV). REFERENCE TYPICAL METAL STUD WALL ASSEMBLY DETAILS FOR TRACKS, BRIDGING, CLIPS AND FASTENING OF COMPONENTS

DIVISION 6 WOODS

6.01 2x (PT) NAILER, COORDINATE SIZE WITH ARCHITECT. FASTEN TO METAL STUD TRACK w/ 2-#10 TEK SCREWS AT 12" o/c.

6.02 7/16" THK APA AND FIRE RATED PLYWOOD SHEATHING. FASTEN TO METAL STUDS w/ #10-16 SCREWS AT 6" o/c ALONG EDGE OF SHEET AND 12" o/c ALONG INTERIOR SUPPORTS.

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STATE OF TEXAS — ROLANDO R. RUBIANO — 88369 — LICENSED PROFESSIONAL ENGINEER — 6/29/2026

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KEYPLAN

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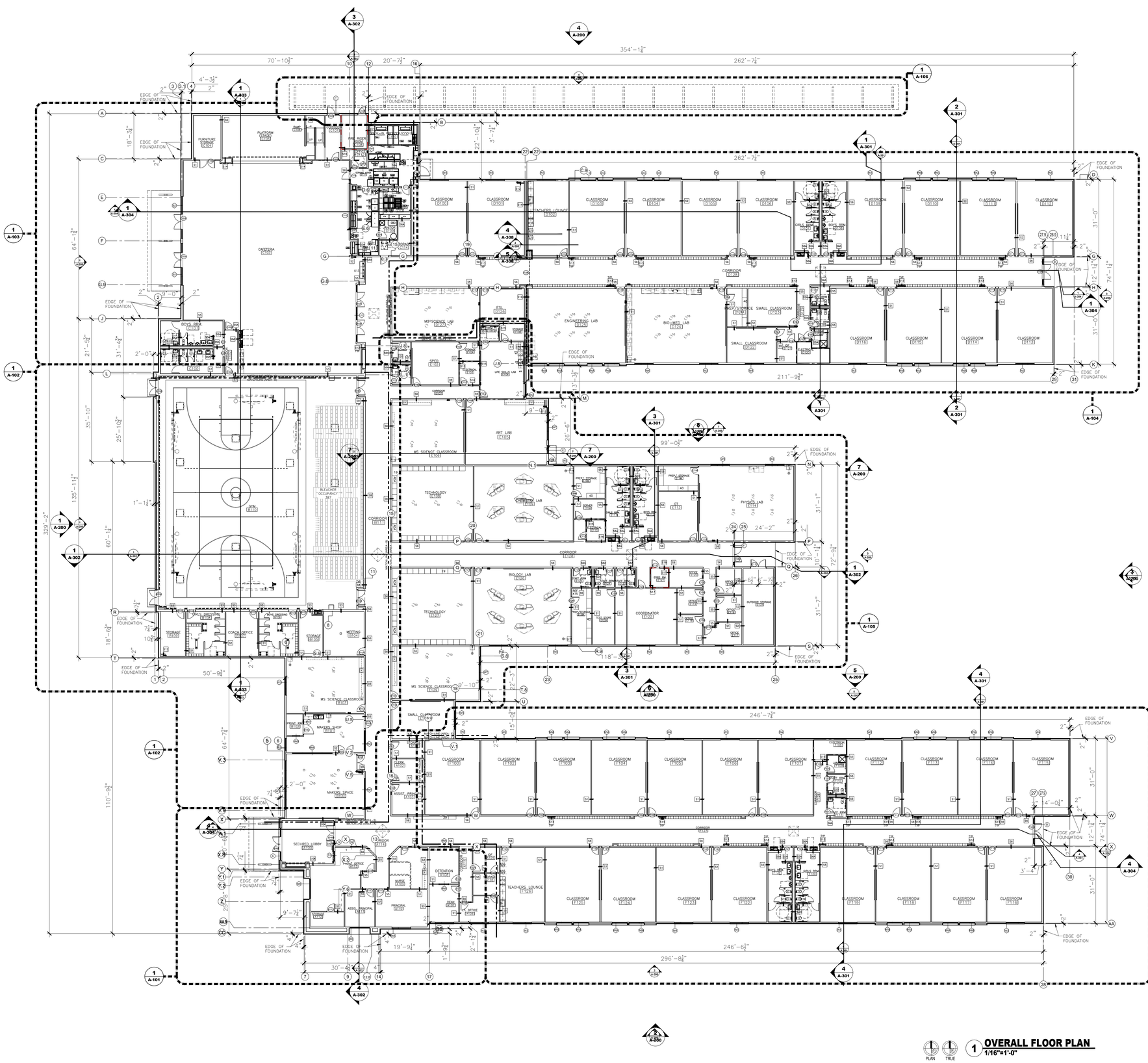
FRAMING DETAILS

S4.6



1 OVERALL FLOOR PLAN
1/16"=1'-0"

PLAN TRUE

GENERAL PLAN NOTES

1. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE BEGINNING CONSTRUCTION.

2. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.

3. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.

4. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.

5. ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF CMU, MASONRY OR METAL STUD WALL(S) UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.

6. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

7. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.

8. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

9. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.

10. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS AS SPECIFIED.

11. REFER TO SHEET A-100A FOR PARTITION TYPES.

12. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.

13. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.

14. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.

15. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.

16. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

17. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS. ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

18. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

19. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

20. ALL DOORS IN INTERIOR CMU WALLS & EXTERIOR MASONRY WALLS SHALL BE SET A MINIMUM OF 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. ALL INTERIOR DOORS IN STUD WALL ASSEMBILES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

21. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

22. REFER TO SHEET G-002 FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

23. OVERALL DIMENSIONS INDICATED ON THIS OVERALL FLOOR PLAN SHEET ARE TO EDGE OF SLAB. COORDINATE WITH STRUCTURAL DRAWINGS AND ENLARGED FLOOR PLANS.

24. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL DIMENSIONS AND PLAN INFORMATION.

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EXPIRATION DATE 11/30/2026

SIGNED ON 6/29/2026

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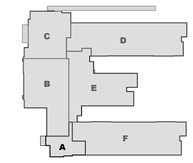

KEYPLAN

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Sheet Title:
OVERALL FLOOR PLAN

A-100

GENERAL OVERALL PARTITION TYPE FLOOR PLAN NOTES

1. REFER TO SHEET A-600 FOR PARTITION TYPES AND PARTITION TYPE DETAILS.

LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

S# — PARTITION TYPE

X — WINDOW TYPE

X — DOOR NUMBER



1 **OVERALL PARTITION TYPE FLOOR PLAN**
1/16"=1'-0"

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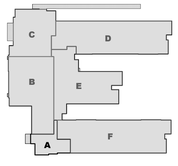

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Sheet Title:
OVERALL PARTITION TYPES

A-100A

LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

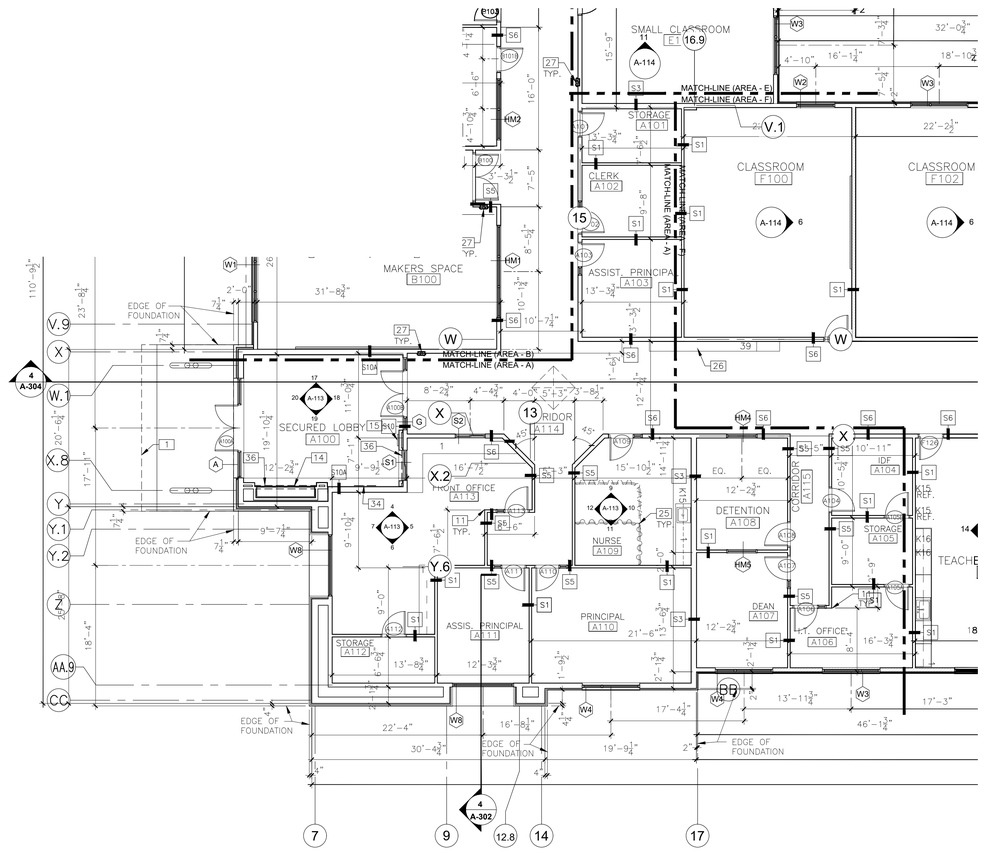
- S# — PARTITION TYPE–REFER TO SHEET A–100A FOR OVERALL PARTITION TYPE LOCATIONS AND SHEET A–600 FOR PARTITION TYPES AND DETAILS
- (X) WINDOW TYPE
- (X) DOOR NUMBER
- 16 / A-113 INTERIOR ELEVATION
- "X'–X" MAINTAIN A 1'–0" WIDE CLEAR DIMENSION, COORDINATE WITH TILE WAINSCOT AND REQUIRED ADA DOOR STRIKE APPROACH
- METAL STUD SHEARWALL, RE: STRUCTURAL FOR FINAL LOCATIONS

GENERAL NOTES :

1. REFER TO SHEET A–100 FOR ADDITIONAL GENERAL PLAN NOTES.
2. REFER TO CIVIL DRAWINGS FOR FINISH GRADES AND GRADE BREAKS.
3. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
4. REFER TO SHEET G–003 FOR FIRE EXTINGUISHER LOCATIONS.
5. REFER TO SHEET A–107 THRU A–110 FOR INTERIOR RESTROOM ELEVATIONS AND ENLARGED PLANS.
6. REFER TO SHEET A–108 THRU A–114 FOR INTERIOR ELEVATIONS.
7. REFER TO SHEET A–600 FOR PARTITION TYPES.
8. REFER TO SHEET A–602 AND A–603 FOR DOOR AND WINDOW SCHEDULES.
9. NOT USED.
10. REFER TO SHEET A–605 FOR OPENING TYPES AND ELEVATIONS.
11. PROVIDE AN ACCESSIBLE ROOM SIGN FOR EACH DOOR IDENTIFIED IN THE DOOR SCHEDULE.
12. REFER TO WINDOW SCHEDULE AND WINDOW ELEVATIONS FOR WINDOW TREATMENT.
13. REFER TO SHEETS A–115 AND A–115A FOR ROOM FINISH SCHEDULE AND SHEETS CS–700 THRU CS–702 FOR FINISH FLOOR PATTERN, WALL FINISH SELECTION AND WALL GRAPHIC PLANS.
14. REFER TO INTERIOR ELEVATIONS AND TECHNOLOGY DRAWINGS FOR LOCATIONS OF MARKER BOARDS, CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. PROVIDE WOOD BLOCKING AS REQUIRED. COORDINATE FINAL LOCATIONS WITH ARCHITECT AND OWNER.
15. ALL STEEL COLUMNS SHALL BE HIDDEN IN WALLS. FURR AROUND COLUMNS WHERE NECESSARY WITH GYPSUM BOARD FINISH. COORDINATE ALL LOCATIONS WITH ARCHITECT.
16. ALL DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED.
17. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR LOCATIONS AND TYPES OF ELECTRICAL FLOOR BOXES.
18. PROVIDE CORNER GUARDS, RE: SPECS.

KEYED NOTES : (#)

1. SLOPED OVERHEAD CANOPY, RE: ROOF PLAN AND STRUCTURAL DRAWINGS.
2. RETRACTABLE EXTENSION ELECTRICAL CORD REEL, CEILING MOUNTED (TYPICAL) FINAL QUANTITY PER ELECTRICAL DRAWINGS, RE: ELECTRICAL
3. WALL RECESSED EMERGENCY EYE WASH/SHOWER STATION, RE: PLUMBING
4. FLOOR/WALL MOUNTED CANE DETECTION RAIL
5. WALL FURR–OUT, COORDINATE WITH STRUCTURAL BRACING AND STRUCTURAL COLUMNS – TYPICAL
6. 2–HOUR FIRE RATED WON–DOOR FIREGUARD ACCORDION DOOR.
7. BASKETBALL COURT STRIPING, RE: "CS" SHEETS FOR COLOR SCHEME
8. 2–HOUR FIRE RATED WALL ASSEMBLY, FULL WALL HEIGHT UP TO DECK
9. SIDE–FOLDING, SIDE–BRACED BACKSTOP, BACKBOARDS, GOAL AND NETS PER 11 66 23
10. TELESCOPING BLEACHERS WITH VINYL ENDCAP CURTAIN WITH SCHOOL MASCOT – 380 SEATS MINIMUM, RE: SPECS AND "CS" SHEETS FOR COLOR SCHEME. COORDINATE LOCATION OF ELECTRICAL DISCONNECT WITH WALLS AND BLEACHER LAYOUT.
11. CORNER GUARD, RE: SPECS
12. VOLLEYBALL FLOOR INSERTS, RE: SPECS.
13. VOLLEYBALL AND COURT STRIPING – RE: SHEET 2/A–102
14. TROPHY DISPLAY CASE (DC–1) – TYPICAL
15. DEDICATION WALL PLAQUE
16. TOILET PARTITIONS (PRIVACY PARTITIONS) AT BOYS AND GIRLS DRESSING
17. INSTALL A 42" WIDE ADA BENCH (TYPE B) WITHOUT A BACK
18. PROTECTIVE WALL PADDING AT GYM WALL
19. PRE–ENGINEERED CANOPY –AVAdek OR EQUAL, CANOPY ENGINEERING PER CANOPY MANUFACTURER, INCLUDING FOUNDATION
20. SCOREBOARD, POWER AND DATA PER ELECTRICAL AND TECHNOLOGY DRAWINGS – COORDINATE FINAL LOCATION WITH ARCHITECT
21. STAGE STEPS, RE: 4/A–305
22. ELECTRICAL FLOOR BOX, RE: ELECTRICAL & LOW VOLTAGE DRAWINGS
23. REFER DETAIL 2/A–116 FOR STUDENT STATION MEP ROUGH–IN
24. PROVIDE A STAGE CURTAIN & ALL REQUIRED CURTAIN RIGGING, TRACTS, ETC. AS PER MANUFACTURER – CONTRACTOR SHALL PROVIDE ALL REQ'D STRUCTURE
25. PRIVACY CURTAIN ON CEILING TRACK – PROVIDE ALL REQUIRED RIGGING, TRACTS, ETC. AS PER MANUFACTURER
26. INTERIOR CORRIDOR BENCH, REFER TO INTERIOR ELEVATIONS 11&12/A–114
27. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET–TYPICAL COORDINATE FINAL LOCATION WITH SHEET G–003 AND ARCHITECT
28. INSTALL A 48" WIDE ADA BENCH (TYPE A) WITHOUT A BACK
29. NOT USED
30. CONTRACTOR TO PROVIDE A ROOF HATCH PER SPECS, ACCESS LADDER, & SAFETY RAIL SYSTEM, PROVIDE ALL STRUCTURAL SUPPORTS ROOF CURB COMPONENTS
31. NOT USED
32. CORRIDOR LOCKER TYPE A – 2 TIER – TYPICAL
33. ATHLETIC LOCKER TYPE B – 2 TIER AT BOYS & GIRLS DRESSING ROOMS
34. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED IN SECURE LOBBY A100, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
35. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED AT STAGE WALL, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
36. IMPACT RESISTANT WALL COVERING
37. ADA COMPLAINT – 1½" ROUND ALUMINUM HANDRAILS



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

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VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

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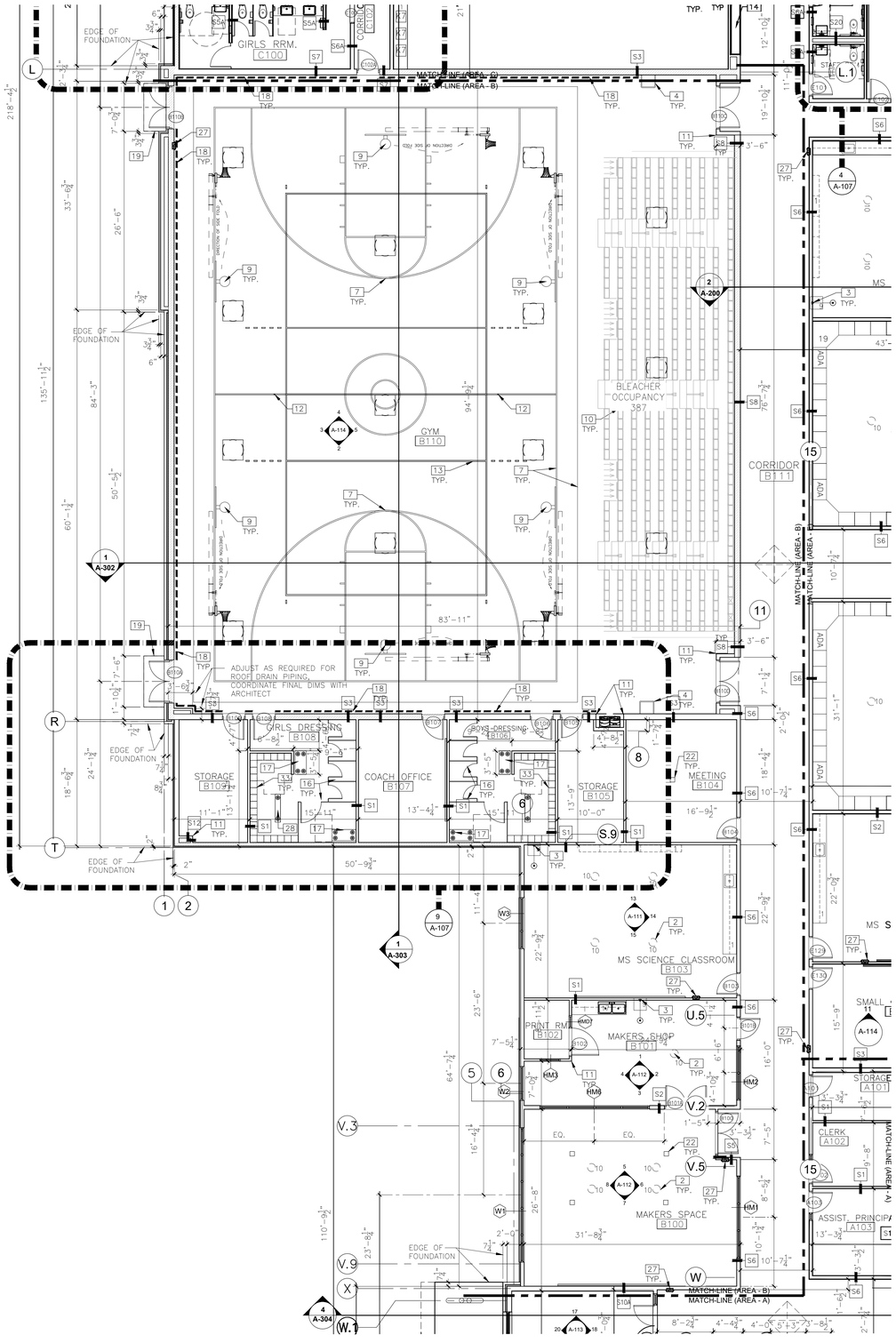
Sheet Title:
FLOOR PLAN - AREA - A

A-101



LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

- S# — PARTITION TYPE–REFER TO SHEET A–100A FOR OVERALL PARTITION TYPE LOCATIONS AND SHEET A–600 FOR PARTITION TYPES AND DETAILS
- (X) WINDOW TYPE
- (X) DOOR NUMBER
- 16 / A-113 — INTERIOR ELEVATION
- "X'–X" — MAINTAIN A 1'–0" WIDE CLEAR DIMENSION, COORDINATE WITH TILE WAINSCOT AND REQUIRED ADA DOOR STRIKE APPROACH
- METAL STUD SHEARWALL, RE: STRUCTURAL FOR FINAL LOCATIONS

GENERAL NOTES :

1. REFER TO SHEET A–100 FOR ADDITIONAL GENERAL PLAN NOTES.
2. REFER TO CIVIL DRAWINGS FOR FINISH GRADES AND GRADE BREAKS.
3. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
4. REFER TO SHEET G–003 FOR FIRE EXTINGUISHER LOCATIONS.
5. REFER TO SHEET A–107 THRU A–110 FOR INTERIOR RESTROOM ELEVATIONS AND ENLARGED PLANS.
6. REFER TO SHEET A–108 THRU A–114 FOR INTERIOR ELEVATIONS.
7. REFER TO SHEET A–600 FOR PARTITION TYPES.
8. REFER TO SHEET A–602 AND A–603 FOR DOOR AND WINDOW SCHEDULES.
9. NOT USED.
10. REFER TO SHEET A–605 FOR OPENING TYPES AND ELEVATIONS.
11. PROVIDE AN ACCESSIBLE ROOM SIGN FOR EACH DOOR IDENTIFIED IN THE DOOR SCHEDULE.
12. REFER TO WINDOW SCHEDULE AND WINDOW ELEVATIONS FOR WINDOW TREATMENT.
13. REFER TO SHEETS A–115 AND A–115A FOR ROOM FINISH SCHEDULE AND SHEETS CS–700 THRU CS–702 FOR FINISH FLOOR PATTERN, WALL FINISH SELECTION AND WALL GRAPHIC PLANS.
14. REFER TO INTERIOR ELEVATIONS AND TECHNOLOGY DRAWINGS FOR LOCATIONS OF MARKER BOARDS, CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. PROVIDE WOOD BLOCKING AS REQUIRED. COORDINATE FINAL LOCATIONS WITH ARCHITECT AND OWNER.
15. ALL STEEL COLUMNS SHALL BE HIDDEN IN WALLS. FURR AROUND COLUMNS WHERE NECESSARY WITH GYPSUM BOARD FINISH. COORDINATE ALL LOCATIONS WITH ARCHITECT.
16. ALL DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED.
17. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR LOCATIONS AND TYPES OF ELECTRICAL FLOOR BOXES.
18. PROVIDE CORNER GUARDS, RE: SPECS.

KEYED NOTES : #

1. SLOPED OVERHEAD CANOPY, RE: ROOF PLAN AND STRUCTURAL DRAWINGS.
2. RETRACTABLE EXTENSION ELECTRICAL CORD REEL, CEILING MOUNTED (TYPICAL) FINAL QUANTITY PER ELECTRICAL DRAWINGS, RE: ELECTRICAL
3. WALL RECESSED EMERGENCY EYE WASH/SHOWER STATION, RE: PLUMBING
4. FLOOR/WALL MOUNTED CANE DETECTION RAIL
5. WALL FURR–OUT, COORDINATE WITH STRUCTURAL BRACING AND STRUCTURAL COLUMNS – TYPICAL
6. 2–HOUR FIRE RATED WON–DOOR FIREGUARD ACCORDION DOOR.
7. BASKETBALL COURT STRIPING, RE: "CS" SHEETS FOR COLOR SCHEME
8. 2–HOUR FIRE RATED WALL ASSEMBLY, FULL WALL HEIGHT UP TO DECK
9. SIDE–FOLDING, SIDE–BRACED BACKSTOP, BACKBOARDS, GOAL AND NETS PER 11 66 23
10. TELESCOPING BLEACHERS WITH VINYL ENDCAP CURTAIN WITH SCHOOL MASCOT – 380 SEATS MINIMUM, RE: SPECS AND "CS" SHEETS FOR COLOR SCHEME. COORDINATE LOCATION OF ELECTRICAL DISCONNECT WITH WALLS AND BLEACHER LAYOUT.
11. CORNER GUARD, RE: SPECS
12. VOLLEYBALL FLOOR INSERTS, RE: SPECS.
13. VOLLEYBALL AND COURT STRIPING – RE: SHEET 2/A–102
14. TROPHY DISPLAY CASE (DC–1) – TYPICAL
15. DEDICATION WALL PLAQUE
16. TOILET PARTITIONS (PRIVACY PARTITIONS) AT BOYS AND GIRLS DRESSING
17. INSTALL A 42" WIDE ADA BENCH (TYPE B) WITHOUT A BACK
18. PROTECTIVE WALL PADDING AT GYM WALL
19. PRE–ENGINEERED CANOPY –AVAdek OR EQUAL, CANOPY ENGINEERING PER CANOPY MANUFACTURER, INCLUDING FOUNDATION
20. SCOREBOARD, POWER AND DATA PER ELECTRICAL AND TECHNOLOGY DRAWINGS – COORDINATE FINAL LOCATION WITH ARCHITECT
21. STAGE STEPS, RE: 4/A–305
22. ELECTRICAL FLOOR BOX, RE: ELECTRICAL & LOW VOLTAGE DRAWINGS
23. REFER DETAIL 2/A–116 FOR STUDENT STATION MEP ROUGH–IN
24. PROVIDE A STAGE CURTAIN & ALL REQUIRED CURTAIN RIGGING, TRACTS, ETC. AS PER MANUFACTURER – CONTRACTOR SHALL PROVIDE ALL REQ'D STRUCTURE
25. PRIVACY CURTAIN ON CEILING TRACK – PROVIDE ALL REQUIRED RIGGING, TRACTS, ETC. AS PER MANUFACTURER
26. INTERIOR CORRIDOR BENCH, REFER TO INTERIOR ELEVATIONS 11&12/A–114
27. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET–TYPICAL COORDINATE FINAL LOCATION WITH SHEET G–003 AND ARCHITECT
28. INSTALL A 48" WIDE ADA BENCH (TYPE A) WITHOUT A BACK
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30. CONTRACTOR TO PROVIDE A ROOF HATCH PER SPECS, ACCESS LADDER, & SAFETY RAIL SYSTEM, PROVIDE ALL STRUCTURAL SUPPORTS ROOF CURB COMPONENTS
31. NOT USED
32. CORRIDOR LOCKER TYPE A – 2 TIER – TYPICAL
33. ATHLETIC LOCKER TYPE B – 2 TIER AT BOYS & GIRLS DRESSING ROOMS
34. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED IN SECURE LOBBY A100, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
35. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED AT STAGE WALL, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
36. IMPACT RESISTANT WALL COVERING
37. ADA COMPLAINT – 1½" ROUND ALUMINUM HANDRAILS

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

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Phone: 210-698-7887

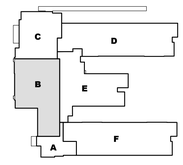
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMUNDO D. GIGNAC 23255 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:

FLOOR PLAN - AREA - B

A-102

LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

- S# — PARTITION TYPE–REFER TO SHEET A-100A FOR OVERALL PARTITION TYPE LOCATIONS AND SHEET A-600 FOR PARTITION TYPES AND DETAILS
- (X) WINDOW TYPE
- (X) DOOR NUMBER
- 16 / A-113 INTERIOR ELEVATION
- MAINTAIN A 1'–0" WIDE CLEAR DIMENSION, COORDINATE WITH TILE WAINSCOT AND REQUIRED ADA DOOR STRIKE APPROACH
- METAL STUD SHEARWALL, RE: STRUCTURAL FOR FINAL LOCATIONS

GENERAL NOTES :

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18. PROVIDE CORNER GUARDS, RE: SPECS.

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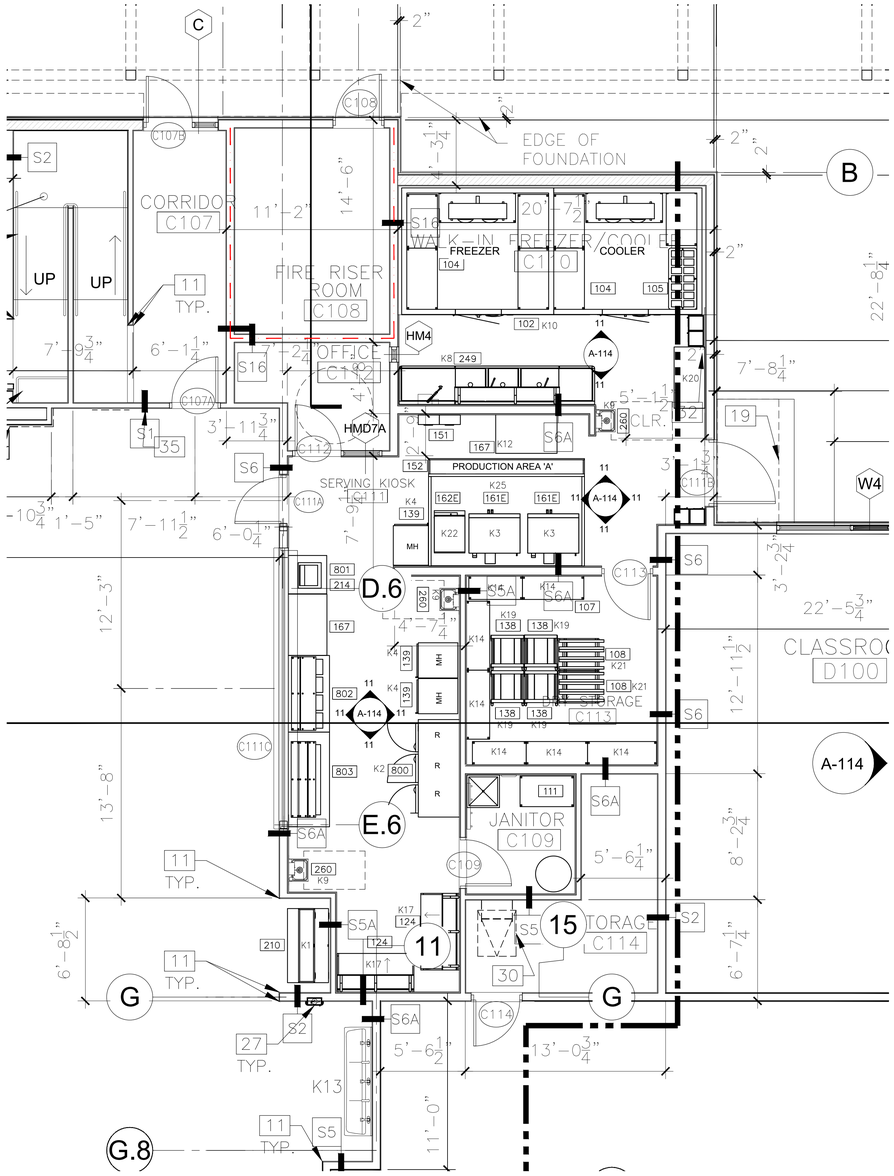
36. IMPACT RESISTANT WALL COVERING
37. ADA COMPLAINT – 1½" ROUND ALUMINUM HANDRAILS

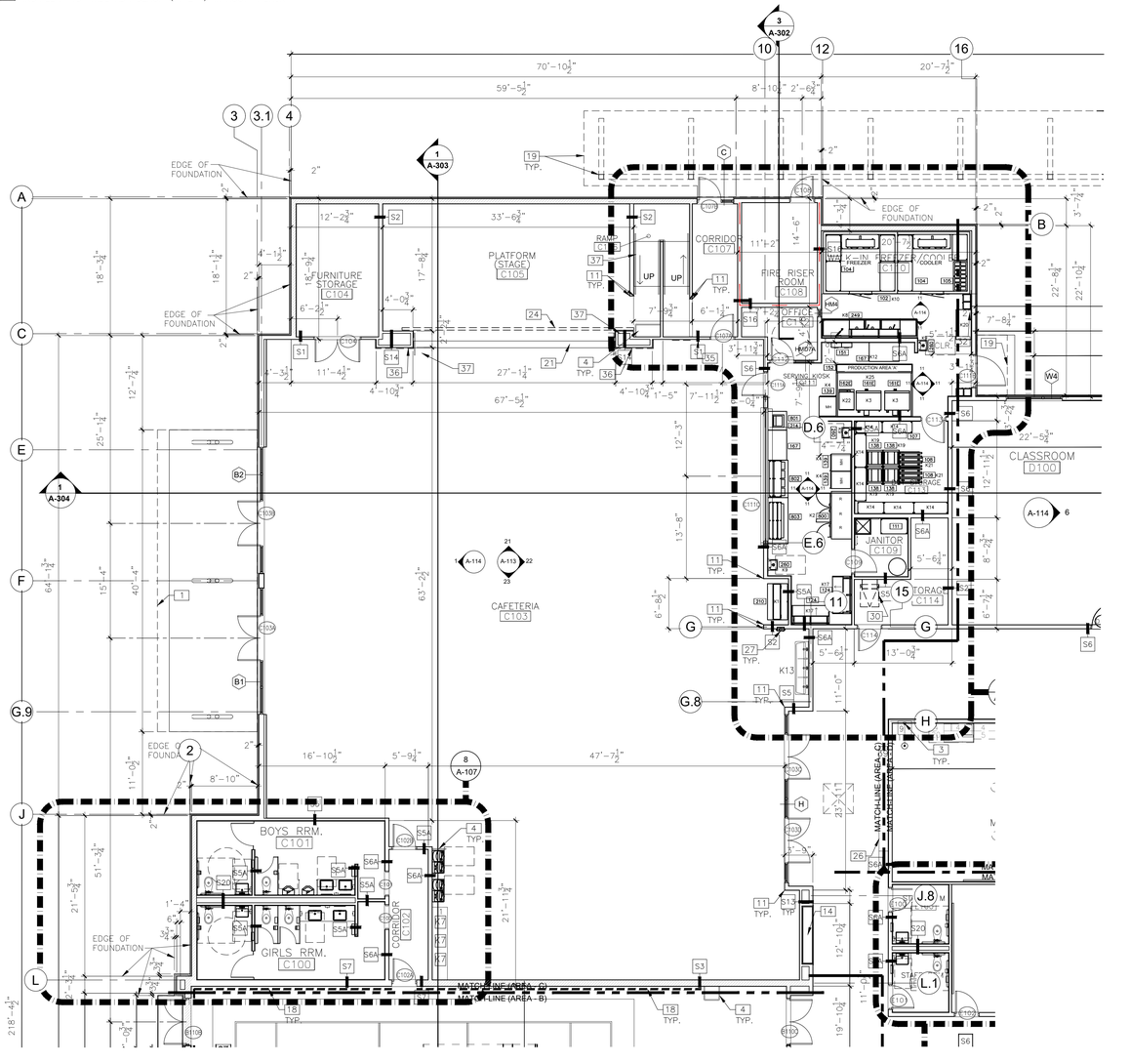
FOOD SERVICE EQUIPMENT SCHEDULE
SERVING KIOSK/KITCHEN, TEACHER'S LOUNGE, & LIFE SKILLS

REFER TO SHEET QF DRAWINGS FOR FOOD SERVICE DRAWINGS

ARCH. ITEM	ARCH. REMARKS	FDP ITEM	FDP QTY	FDP DESCRIPTION
K1		210	1	DROP FRONT MILK COOLER - 16 CASE
K2		800	1	REFRIGERATOR RACH-IN 3DR.
K3		161E	2	CONVECTION OVEN-ELECTRIC DBL
K4		139	3	INSUL. MOBILE PROOFER
K5		803	1	(4)PAN COLD
K6		802	1	(4)HOT WELLA
K7	BY OWNER	--	3	MICROWAVES (PROVIDED BY OWNER)
K8		249	1	THREE COMPARTMENT SINK W/DISPOSER
K9		260	4	HAND SINK
K10		102	1	COLD STORAGE ASSEMBLY
K11	BY OWNER	--	1	RESIDENTIAL STOVE TOP
K11A		804	1	RESIDENTIAL HOOD WITH FIRE SUPPRESSION
K12		167	2	MOBILE WORKTABLE
K13		--	1	LAVATORY
K14		107	7	DRY STORAGE SHELVING
K15	BY OWNER	--	6	REFRIGERATOR
K16	BY OWNER	--	6	MICROWAVE (TEACHERS LOUNGE, LIFE SKILLS)
K17		124	2	WORKTABLE W. OVERSHELF
K18		801	1	CASHIER STATION
K18A		214	1	CASH REGISTER
K19		138	4	PAN RACK
K20		255	1	MOBILE DISH DRAIN
K21		108	2	CAN RACK
K22		162E	1	CONVECTION STEAMER-ELECTRIC
K25		152	1	EXHAUST HOOD
--		104	2	COLD STORAGE SHELVING
--		105	1	DUNNAGE RACK
--	TO BE INSTALL ON ROOF	103	1	COLD STORAGE REFRIGERATION SYSTEM



1 ENLARGED PLAN - SERVING KIOSK
1/4"=1'-0"



1 FLOOR PLAN - AREA - C
1/8"=1'-0"

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Tel : 210-546-0200
INFORMATION TECHNOLOGY:
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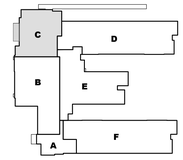
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMUND D. GIGNAC 22581 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

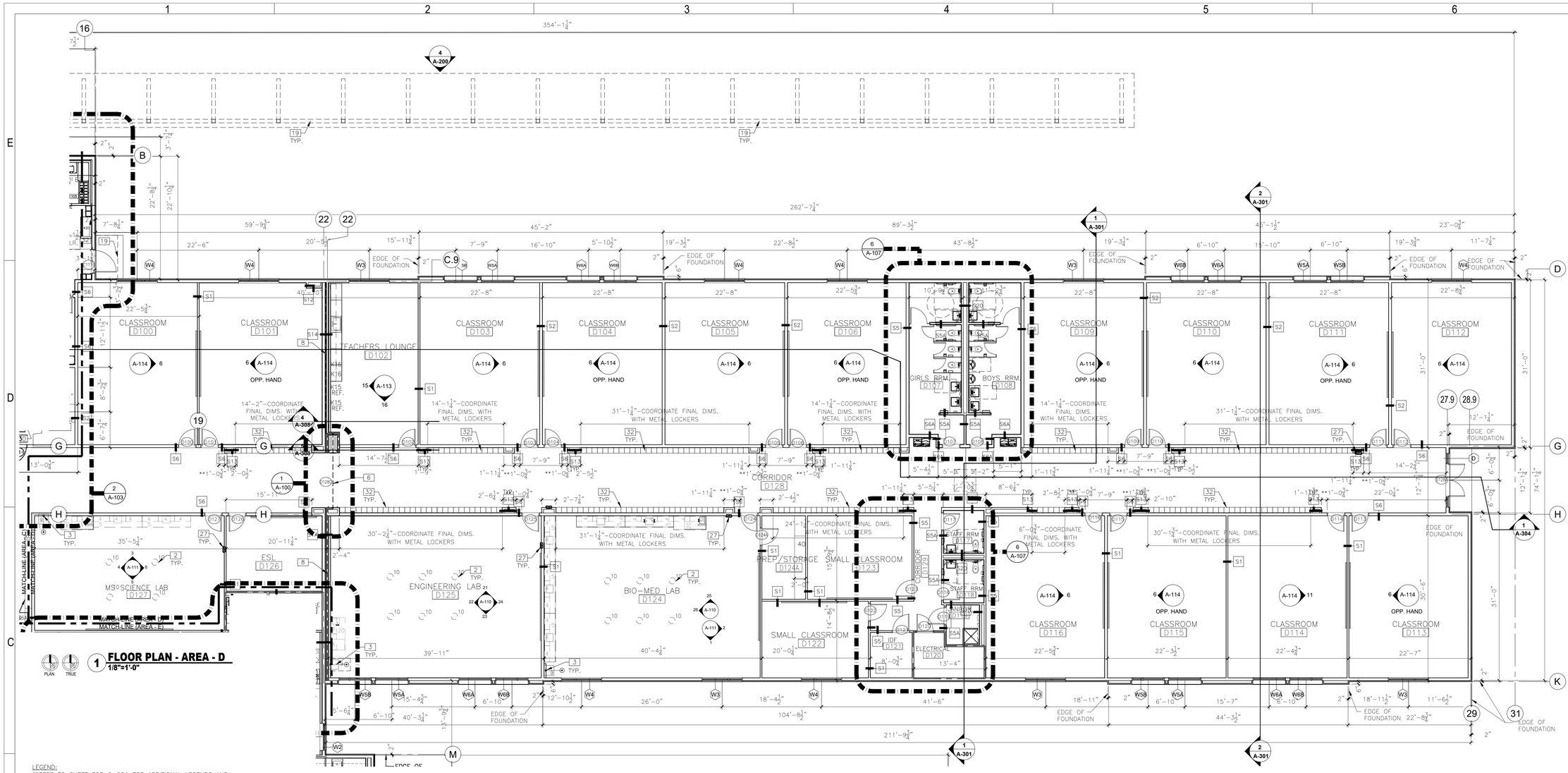
Revisions:

No.	Description	Date

Sheet Title:

FLOOR PLAN - AREA - C

A-103



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

LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

- S# — PARTITION TYPE–REFER TO SHEET A–100A FOR OVERALL PARTITION TYPE LOCATIONS AND SHEET A–600 FOR PARTITION TYPES AND DETAILS
- (X) WINDOW TYPE
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- METAL STUD SHEARWALL, RE: STRUCTURAL FOR FINAL LOCATIONS

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33. ATHLETIC LOCKER TYPE B – 2 TIER AT BOYS & GIRLS DRESSING ROOMS
34. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED IN SECURE LOBBY A100, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
35. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED AT STAGE WALL, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
36. IMPACT RESISTANT WALL COVERING
37. ADA COMPLAINT – 1½" ROUND ALUMINUM HANDRAILS

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FOOD SERVICE DESIGN:
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REGISTERED ARCHITECT RICHARD D. GIGNAC 22255 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
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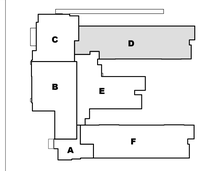

KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
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Sheet Title:
FLOOR PLAN - AREA - D

A-104

LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

S# — PARTITION TYPE–REFER TO SHEET A–100A FOR OVERALL PARTITION TYPE LOCATIONS AND SHEET A–600 FOR PARTITION TYPES AND DETAILS

(X) WINDOW TYPE

(X) DOOR NUMBER

16 / A-113 INTERIOR ELEVATION

MAINTAIN A 1'–0" WIDE CLEAR DIMENSION, COORDINATE WITH TILE WAINSCOT AND REQUIRED ADA DOOR STRIKE APPROACH

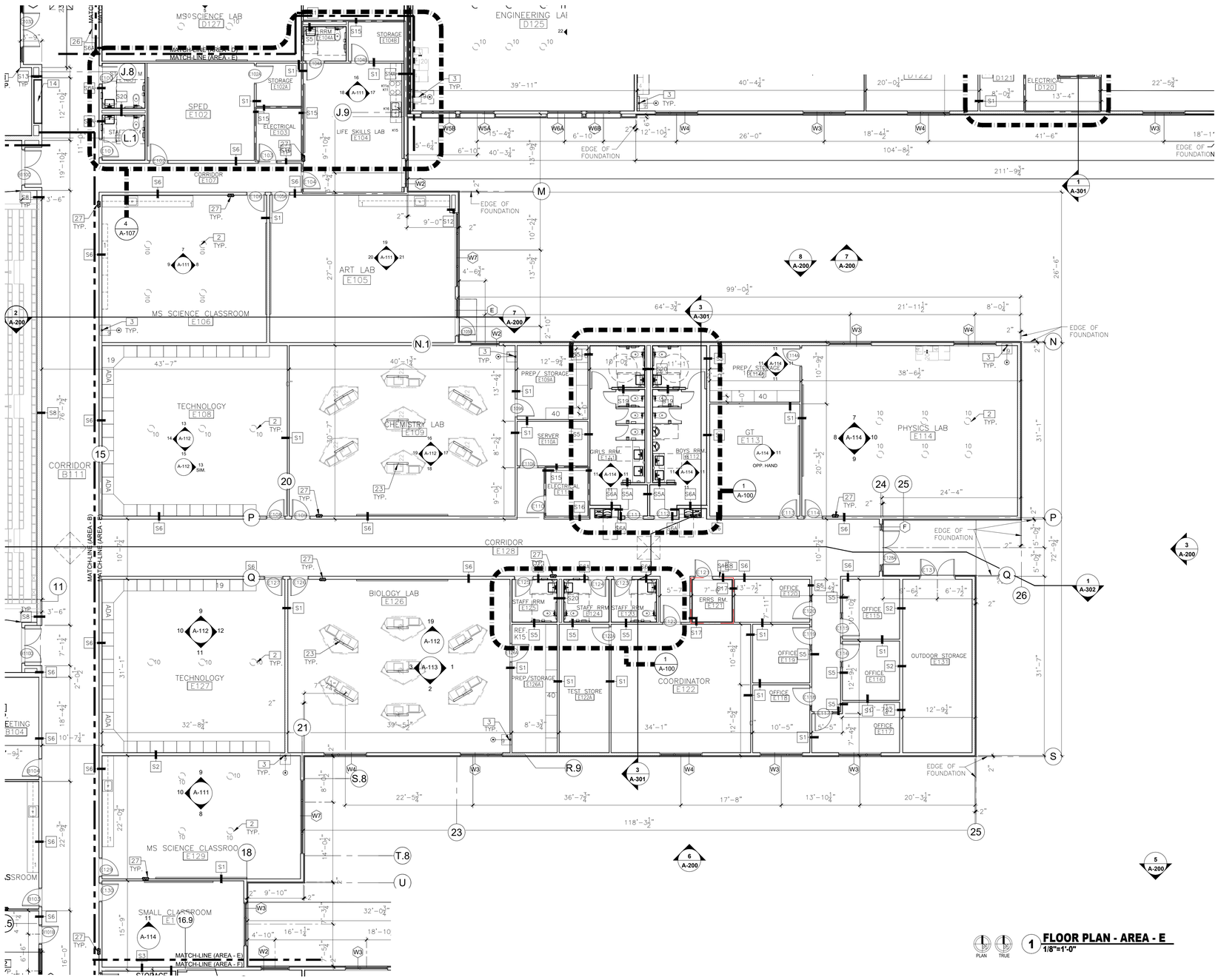
METAL STUD SHEARWALL, RE: STRUCTURAL FOR FINAL LOCATIONS

GENERAL NOTES :

1. REFER TO SHEET A–100 FOR ADDITIONAL GENERAL PLAN NOTES.
2. REFER TO CIVIL DRAWINGS FOR FINISH GRADES AND GRADE BREAKS.
3. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
4. REFER TO SHEET G–003 FOR FIRE EXTINGUISHER LOCATIONS.
5. REFER TO SHEET A–107 THRU A–110 FOR INTERIOR RESTROOM ELEVATIONS AND ENLARGED PLANS.
6. REFER TO SHEET A–108 THRU A–114 FOR INTERIOR ELEVATIONS.
7. REFER TO SHEET A–600 FOR PARTITION TYPES.
8. REFER TO SHEET A–602 AND A–603 FOR DOOR AND WINDOW SCHEDULES.
9. NOT USED.
10. REFER TO SHEET A–605 FOR OPENING TYPES AND ELEVATIONS.
11. PROVIDE AN ACCESSIBLE ROOM SIGN FOR EACH DOOR IDENTIFIED IN THE DOOR SCHEDULE.
12. REFER TO WINDOW SCHEDULE AND WINDOW ELEVATIONS FOR WINDOW TREATMENT.
13. REFER TO SHEETS A–115 AND A–115A FOR ROOM FINISH SCHEDULE AND SHEETS CS–700 THRU CS–702 FOR FINISH FLOOR PATTERN, WALL FINISH SELECTION AND WALL GRAPHIC PLANS.
14. REFER TO INTERIOR ELEVATIONS AND TECHNOLOGY DRAWINGS FOR LOCATIONS OF MARKER BOARDS, CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. PROVIDE WOOD BLOCKING AS REQUIRED. COORDINATE FINAL LOCATIONS WITH ARCHITECT AND OWNER.
15. ALL STEEL COLUMNS SHALL BE HIDDEN IN WALLS. FURR AROUND COLUMNS WHERE NECESSARY WITH GYPSUM BOARD FINISH. COORDINATE ALL LOCATIONS WITH ARCHITECT.
16. ALL DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED.
17. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR LOCATIONS AND TYPES OF ELECTRICAL FLOOR BOXES.
18. PROVIDE CORNER GUARDS, RE: SPECS.

KEYED NOTES : [#]

1. SLOPED OVERHEAD CANOPY, RE: ROOF PLAN AND STRUCTURAL DRAWINGS.
2. RETRACTABLE EXTENSION ELECTRICAL CORD REEL, CEILING MOUNTED (TYPICAL). FINAL QUANTITY PER ELECTRICAL DRAWINGS, RE: ELECTRICAL
3. WALL RECESSED EMERGENCY EYE WASH/SHOWER STATION, RE: PLUMBING
4. FLOOR/WALL MOUNTED CANE DETECTION RAIL
5. WALL FURR–OUT, COORDINATE WITH STRUCTURAL BRACING AND STRUCTURAL COLUMNS – TYPICAL
6. 2–HOUR FIRE RATED WON–DOOR FIREGUARD ACCORDION DOOR.
7. BASKETBALL COURT STRIPING, RE: "CS" SHEETS FOR COLOR SCHEME
8. 2–HOUR FIRE RATED WALL ASSEMBLY, FULL WALL HEIGHT UP TO DECK
9. SIDE–FOLDING, SIDE–BRACED BACKSTOP, BACKBOARDS, GOAL AND NETS PER 11 66 23
10. TELESCOPING BLEACHERS WITH VINYL ENDCAP CURTAIN WITH SCHOOL MASCOT – 380 SEATS MINIMUM, RE: SPECS AND "CS" SHEETS FOR COLOR SCHEME. COORDINATE LOCATION OF ELECTRICAL DISCONNECT WITH WALLS AND BLEACHER LAYOUT.
11. CORNER GUARD, RE: SPECS
12. VOLLEYBALL FLOOR INSERTS, RE: SPECS.
13. VOLLEYBALL AND COURT STRIPING – RE: SHEET 2/A–102
14. TROPHY DISPLAY CASE (DC–1) – TYPICAL
15. DEDICATION WALL PLAQUE
16. TOILET PARTITIONS (PRIVACY PARTITIONS) AT BOYS AND GIRLS DRESSING
17. INSTALL A 42" WIDE ADA BENCH (TYPE B) WITHOUT A BACK
18. PROTECTIVE WALL PADDING AT GYM WALL
19. PRE–ENGINEERED CANOPY –AVAdek OR EQUAL, CANOPY ENGINEERING PER CANOPY MANUFACTURER, INCLUDING FOUNDATION
20. SCOREBOARD, POWER AND DATA PER ELECTRICAL AND TECHNOLOGY DRAWINGS – COORDINATE FINAL LOCATION WITH ARCHITECT
21. STAGE STEPS, RE: 4/A–305
22. ELECTRICAL FLOOR BOX, RE: ELECTRICAL & LOW VOLTAGE DRAWINGS
23. REFER DETAIL 2/A–116 FOR STUDENT STATION MEP ROUGH–IN
24. PROVIDE A STAGE CURTAIN & ALL REQUIRED CURTAIN RIGGING, TRACTS, ETC. AS PER MANUFACTURER – CONTRACTOR SHALL PROVIDE ALL REQ'D STRUCTURE
25. PRIVACY CURTAIN ON CEILING TRACK – PROVIDE ALL REQUIRED RIGGING, TRACTS, ETC. AS PER MANUFACTURER
26. INTERIOR CORRIDOR BENCH, REFER TO INTERIOR ELEVATIONS 11&12/A–114
27. FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET–TYPICAL COORDINATE FINAL LOCATION WITH SHEET G–003 AND ARCHITECT
28. INSTALL A 48" WIDE ADA BENCH (TYPE A) WITHOUT A BACK
29. NOT USED
30. CONTRACTOR TO PROVIDE A ROOF HATCH PER SPECS, ACCESS LADDER, & SAFETY RAIL SYSTEM, PROVIDE ALL STRUCTURAL SUPPORTS ROOF CURB COMPONENTS
31. NOT USED
32. CORRIDOR LOCKER TYPE A – 2 TIER – TYPICAL
33. ATHLETIC LOCKER TYPE B – 2 TIER AT BOYS & GIRLS DRESSING ROOMS
34. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED IN SECURE LOBBY A100, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
35. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED AT STAGE WALL, COORDINATE ELECTRIC WITH ELECTRICAL DRAWINGS
36. IMPACT RESISTANT WALL COVERING
37. ADA COMPLAINT – 1½" ROUND ALUMINUM HANDRAILS



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

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SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

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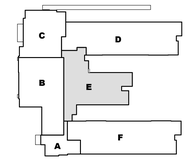

KEYPLAN

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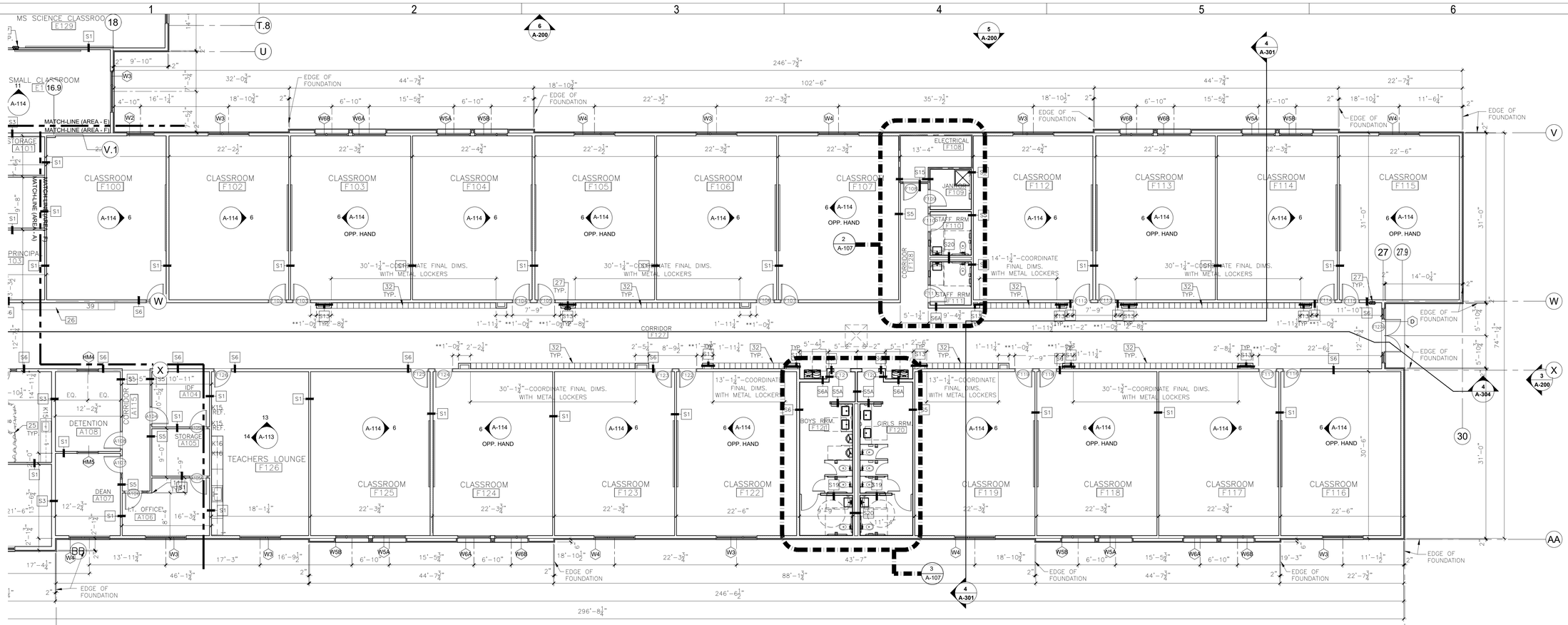
Revisions:

No.	Description	Date

Sheet Title:
FLOOR PLAN - AREA - E

A-105



LEGEND:
(REFER TO SHEET FOR G-001 FOR ADDITIONAL LEGENDS AND ABBREVIATIONS)

- S# — PARTITION TYPE—REFER TO SHEET A-100A FOR OVERALL PARTITION TYPE LOCATIONS AND SHEET A-600 FOR PARTITION TYPES AND DETAILS
- (X) WINDOW TYPE
- (X) DOOR NUMBER
- 16 / A-113 INTERIOR ELEVATION
- MAINTAIN A 1'-0" WIDE CLEAR DIMENSION, COORDINATE WITH TILE WAINSCOT AND REQUIRED ADA DOOR STRIKE APPROACH
- METAL STUD SHEARWALL, RE: STRUCTURAL FOR FINAL LOCATIONS

GENERAL NOTES :

1. REFER TO SHEET A-100 FOR ADDITIONAL GENERAL PLAN NOTES.
2. REFER TO CIVIL DRAWINGS FOR FINISH GRADES AND GRADE BREAKS.
3. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
4. REFER TO SHEET G-003 FOR FIRE EXTINGUISHER LOCATIONS.
5. REFER TO SHEET A-107 THRU A-110 FOR INTERIOR RESTROOM ELEVATIONS AND ENLARGED PLANS.
6. REFER TO SHEET A-108 THRU A-114 FOR INTERIOR ELEVATIONS.
7. REFER TO SHEET A-600 FOR PARTITION TYPES.
8. REFER TO SHEET A-602 AND A-603 FOR DOOR AND WINDOW SCHEDULES.
9. NOT USED.
10. REFER TO SHEET A-605 FOR OPENING TYPES AND ELEVATIONS.
11. PROVIDE AN ACCESSIBLE ROOM SIGN FOR EACH DOOR IDENTIFIED IN THE DOOR SCHEDULE.
12. REFER TO WINDOW SCHEDULE AND WINDOW ELEVATIONS FOR WINDOW TREATMENT.
13. REFER TO SHEETS A-115 AND A-115A FOR ROOM FINISH SCHEDULE AND SHEETS CS-700 THRU CS-702 FOR FINISH FLOOR PATTERN, WALL FINISH SELECTION AND WALL GRAPHIC PLANS.
14. REFER TO INTERIOR ELEVATIONS AND TECHNOLOGY DRAWINGS FOR LOCATIONS OF MARKER BOARDS, CEILING MOUNTED PROJECTORS AND PROJECTION SCREENS. PROVIDE WOOD BLOCKING AS REQUIRED. COORDINATE FINAL LOCATIONS WITH ARCHITECT AND OWNER.
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17. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR LOCATIONS AND TYPES OF ELECTRICAL FLOOR BOXES.
18. PROVIDE CORNER GUARDS, RE: SPECS.

KEYED NOTES : (#)

1. SLOPED OVERHEAD CANOPY, RE: ROOF PLAN AND STRUCTURAL DRAWINGS.
2. RETRACTABLE EXTENSION ELECTRICAL CORD REEL, CEILING MOUNTED (TYPICAL) FINAL QUANTITY PER ELECTRICAL DRAWINGS, RE: ELECTRICAL
3. WALL RECESSED EMERGENCY EYE WASH/SHOWER STATION, RE: PLUMBING
4. FLOOR/WALL MOUNTED CANE DETECTION RAIL
5. WALL FURR-OUT. COORDINATE WITH STRUCTURAL BRACING AND STRUCTURAL COLUMNS – TYPICAL
6. 2-HOUR FIRE RATED WON-DOOR FIREGUARD ACCORDION DOOR.
7. BASKETBALL COURT STRIPING, RE: "CS" SHEETS FOR COLOR SCHEME
8. 2-HOUR FIRE RATED WALL ASSEMBLY, FULL WALL HEIGHT UP TO DECK
9. SIDE-FOLDING, SIDE-BRACED BACKSTOP, BACKBOARDS, GOAL AND NETS PER 11 66 23
10. TELESCOPING BLEACHERS WITH VINYL ENDCAP CURTAIN WITH SCHOOL MASCOT – 380 SEATS MINIMUM, RE: SPECS AND "CS" SHEETS FOR COLOR SCHEME. COORDINATE LOCATION OF ELECTRICAL DISCONNECT WITH WALLS AND BLEACHER LAYOUT.
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12. VOLLEYBALL FLOOR INSERTS, RE: SPECS.
13. VOLLEYBALL AND COURT STRIPING – RE: SHEET 2/A-102
14. TROPHY DISPLAY CASE (DC-1) – TYPICAL
15. DEDICATION WALL PLAQUE
16. TOILET PARTITIONS (PRIVACY PARTITIONS) AT BOYS AND GIRLS DRESSING
17. INSTALL A 42" WIDE ADA BENCH (TYPE B) WITHOUT A BACK
18. PROTECTIVE WALL PADDING AT GYM WALL
19. PRE-ENGINEERED CANOPY –AVAdek OR EQUAL, CANOPY ENGINEERING PER CANOPY MANUFACTURER, INCLUDING FOUNDATION
20. SCOREBOARD, POWER AND DATA PER ELECTRICAL AND TECHNOLOGY DRAWINGS – COORDINATE FINAL LOCATION WITH ARCHITECT
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22. ELECTRICAL FLOOR BOX, RE: ELECTRICAL & LOW VOLTAGE DRAWINGS
23. REFER DETAIL 2/A-116 FOR STUDENT STATION MEP ROUGH-IN
24. PROVIDE A STAGE CURTAIN & ALL REQUIRED CURTAIN RIGGING, TRACTS, ETC. AS PER MANUFACTURER – CONTRACTOR SHALL PROVIDE ALL REQ'D STRUCTURE
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35. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, LOCATED AT STAGE WALL, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
36. IMPACT RESISTANT WALL COVERING
37. ADA COMPLAINT – 1½" ROUND ALUMINUM HANDRAILS

PLAN TRUE

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

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EXPIRATION DATE 11/30/2026
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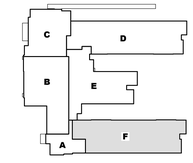

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
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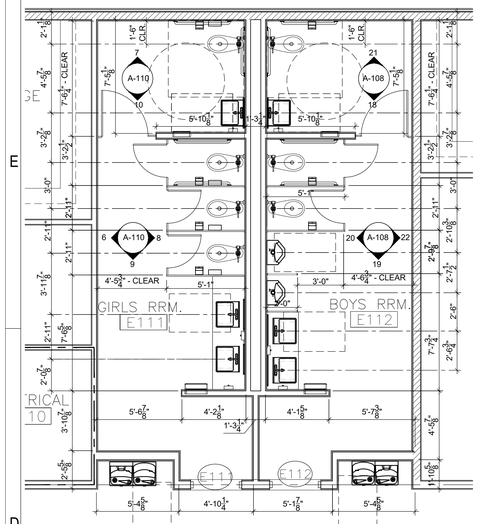
Revisions:

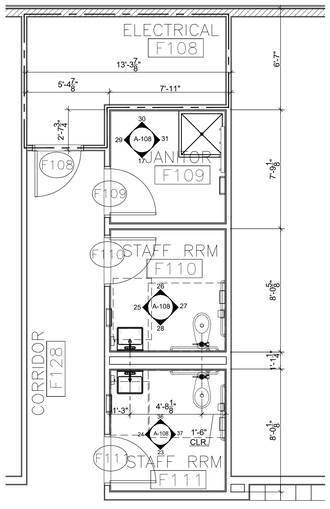
No.	Description	Date

Sheet Title:
FLOOR PLAN - AREA - F

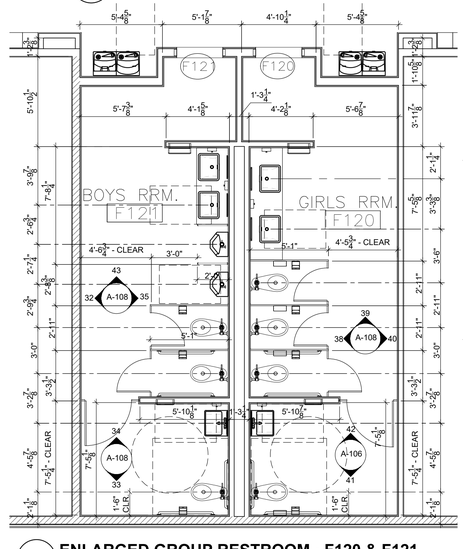
A-106



1 **ENLARGED GROUP RESTROOMS - E111 & E112**
SCALE: 1/4" = 1'-0"



2 **ENLARGED JANITOR F109**
ENLARGED STAFF RESTROOM - F110 & F111
SCALE: 1/4" = 1'-0"



3 **ENLARGED GROUP RESTROOM - F120 & F121**
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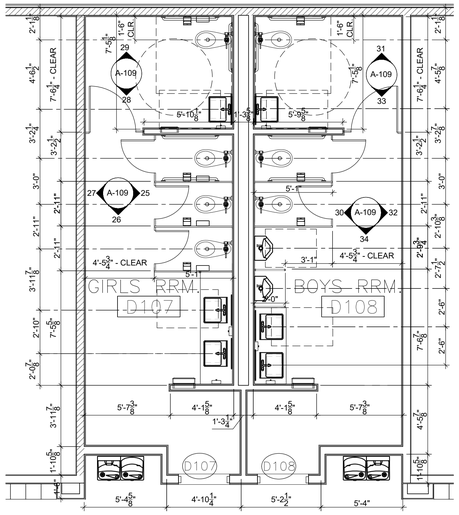
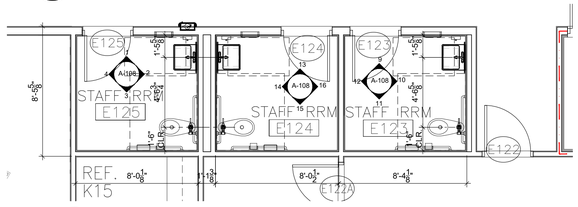
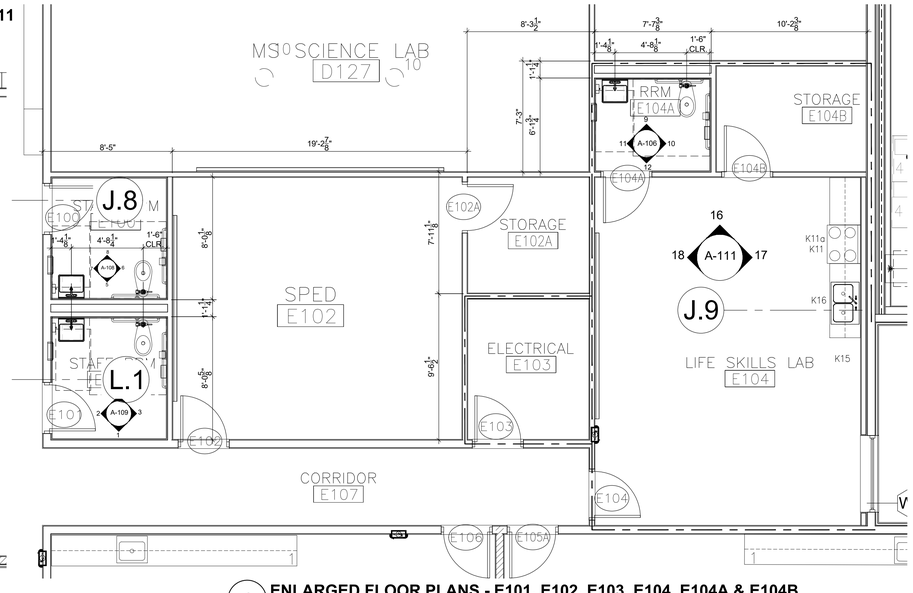


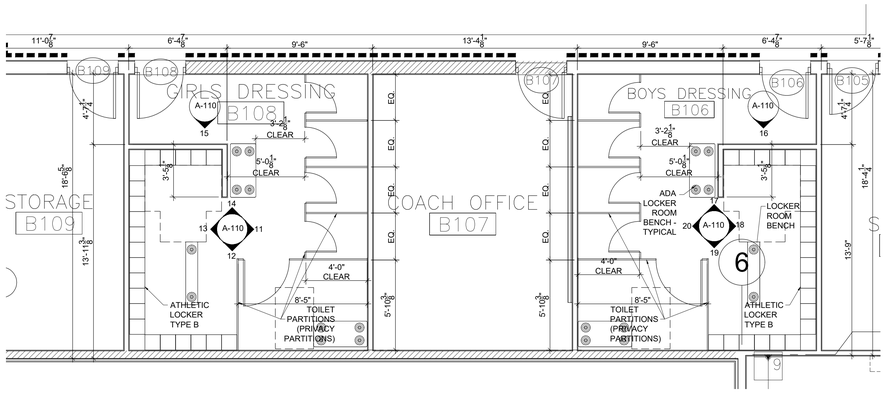
6 **ENLARGED GROUP RESTROOM - D107 & D108**
SCALE: 1/4" = 1'-0"



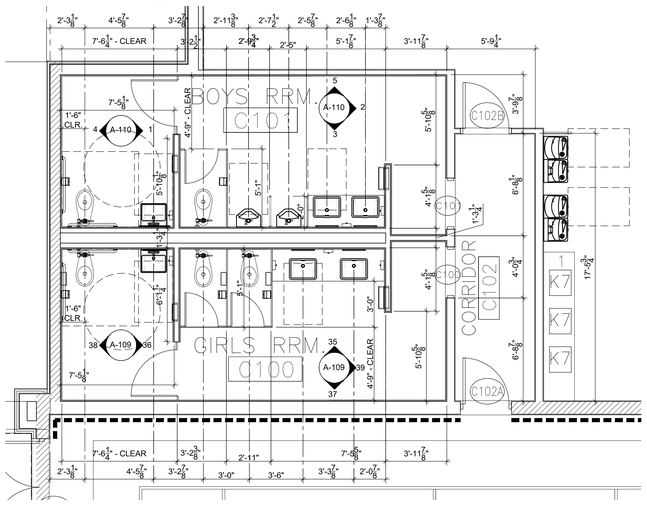
5 **ENLARGED STAFF RESTROOM - E123, E124, & E125**
SCALE: 1/4" = 1'-0"



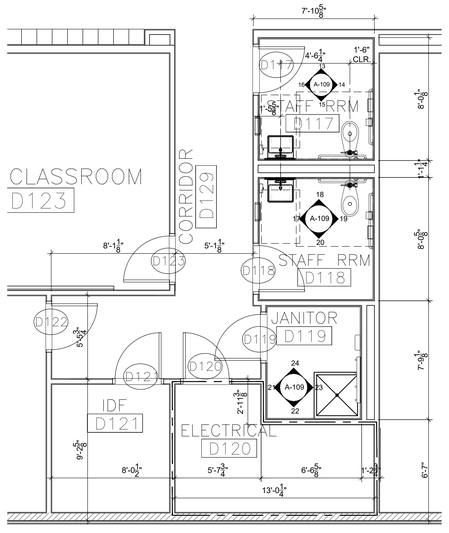
4 **ENLARGED FLOOR PLANS - E101, E102, E103, E104, E104A & E104B**
SCALE: 1/4" = 1'-0"



9 **ENLARGED GROUP RESTROOM - C100 & C101**
SCALE: 1/4" = 1'-0"



8 **ENLARGED GROUP RESTROOM - C100 & C101**
SCALE: 1/4" = 1'-0"



7 **ENLARGED JANITOR D119**
ENLARGED STAFF RESTROOM - DD17 & D118
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE BEGINNING CONSTRUCTION.

2. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.

3. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.

4. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.

5. ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF CMU, MASONRY OR METAL STUD WALL(S) UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.

6. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

7. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.

8. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

9. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.

10. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS AS SPECIFIED.

11. NOT USED.

12. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.

13. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.

14. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.

15. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.

16. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

17. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

18. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

19. REFER TO SHEET A-600 FOR ALL PARTITION TYPES.

20. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

21. ALL DOORS IN INTERIOR CMU WALLS & EXTERIOR MASONRY WALLS SHALL BE SET A MINIMUM OF 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. ALL INTERIOR DOORS IN STUD WALL ASSEMBLIES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

22. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

23. REFER TO SHEET G-002 FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR. 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	18" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-09	RECESSED 12 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-10	SURFACE MOUNTED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	
		ACCESSIBLE	
TA-11	MOP AND BROOM HOLDER		
TA-12	CUSTODIAL SURFACE MOUNTED .2 GAL PAPER TOWEL DISPENSER	STANDARD	
		ACCESSIBLE	
TA-13	RECESSED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)		
TA-14	WALL MOUNTED BABY CHANGING TABLE (MEASURED FROM FLOOR TO CENTERLINE OF HINGE)	ACCESSIBLE	30"

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.

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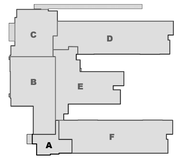
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
STATE OF TEXAS
6295

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

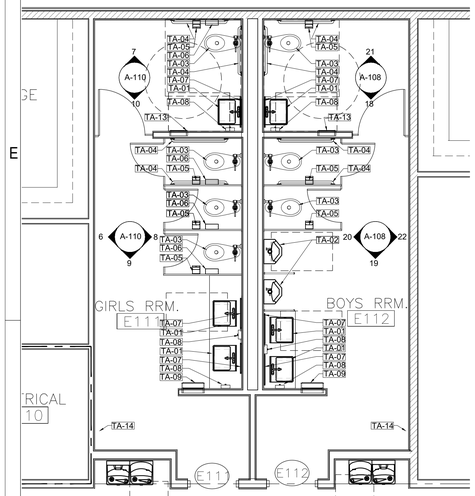
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

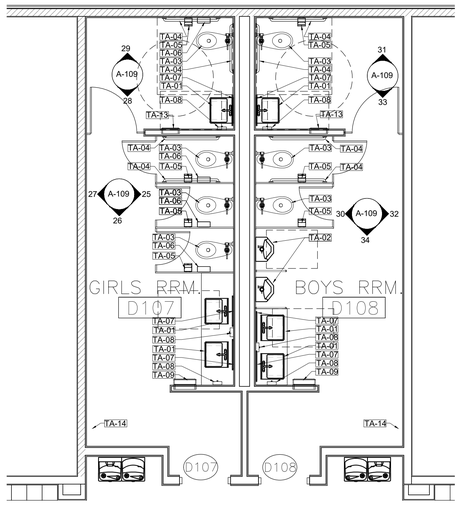
No.	Description	Date

Sheet Title:
ENLARGED FLOOR PLANS

A-107



1 **ENLARGED GROUP RESTROOMS - E111 & E112**
SCALE: 1/4" = 1'-0"



6 **ENLARGED GROUP RESTROOM - D107 & D108**
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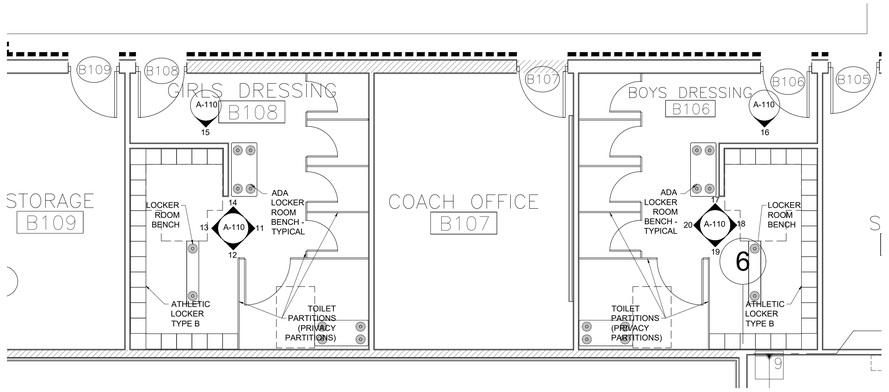
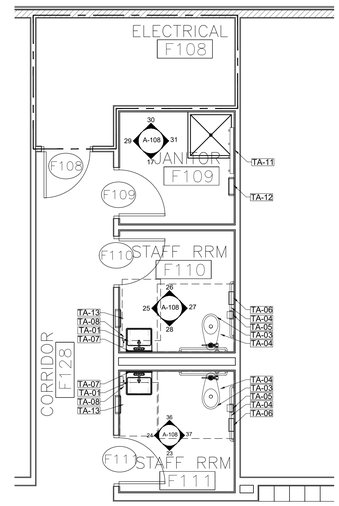
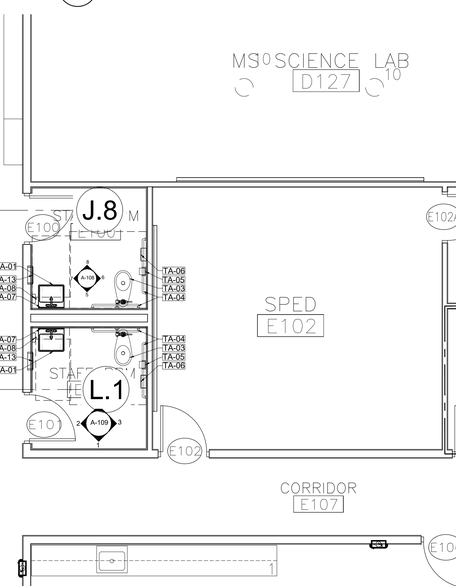


9 **ENLARGED GROUP RESTROOM - C100 & C101**
SCALE: 1/4" = 1'-0"

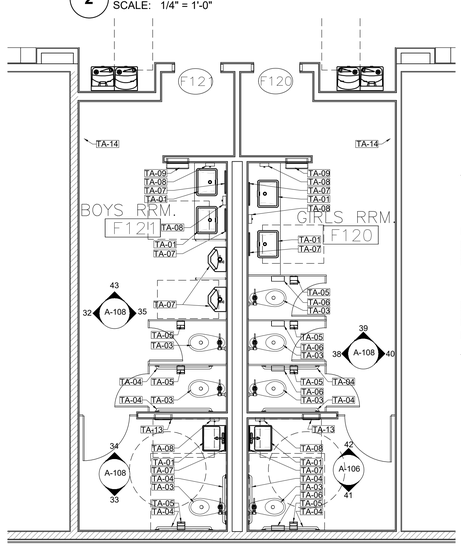


2 **ENLARGED JANITOR F109**
ENLARGED STAFF RESTROOM - F110 & F111
SCALE: 1/4" = 1'-0"



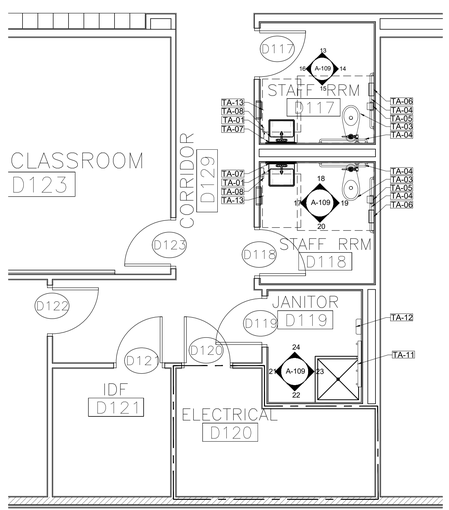
5 **ENLARGED STAFF RESTROOM - E123, E124, & E125**
SCALE: 1/4" = 1'-0"

8 **ENLARGED GROUP RESTROOM - C100 & C101**
SCALE: 1/4" = 1'-0"



3 **ENLARGED GROUP RESTROOM - F120 & F121**
SCALE: 1/4" = 1'-0"

4 **ENLARGED FLOOR PLANS - E101, E102, E103, E104, E104A & E104B**
SCALE: 1/4" = 1'-0"



7 **ENLARGED JANITOR D119**
ENLARGED STAFF RESTROOM - DD17 & D118
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE BEGINNING CONSTRUCTION.

2. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.

3. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.

4. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.

5. ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF CMU, MASONRY OR METAL STUD WALL(S) UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.

6. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

7. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.

8. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

9. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.

10. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS AS SPECIFIED.

11. ALL CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.

12. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.

13. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.

14. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.

15. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.

16. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

17. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

18. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

19. REFER TO SHEET A-609 FOR ALL PARTITION TYPES.

20. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

21. ALL DOORS IN INTERIOR CMU WALLS & EXTERIOR MASONRY WALLS SHALL BE SET A MINIMUM OF 8" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. ALL INTERIOR DOORS IN STUD WALL ASSEMBILES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

22. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

23. REFER TO SHEET G-002 FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	28" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-09	RECESSED 12 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-10	SURFACE MOUNTED ,2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	
		ACCESSIBLE	
TA-11	MOP AND BROOM HOLDER		
TA-12	CUSTODIAL SURFACE MOUNTED ,2 GAL PAPER TOWEL DISPENSER	STANDARD	
		ACCESSIBLE	
TA-13	RECESSED,.2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)		
TA-14	WALL MOUNTED BABY CHANGING TABLE (MEASURED FROM FLOOR TO CENTERLINE OF HINGE)	ACCESSIBLE	30"

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.

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F 956.365.4822
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McALLEN, TEXAS 78501
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Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

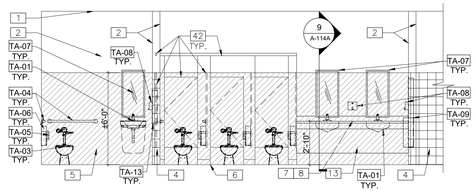
No.	Description	Date

Sheet Title:
WASHROOM ACCESSORIES ENLARGED PLANS

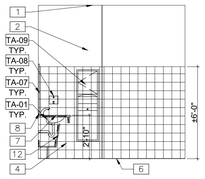
A-107A

GENERAL NOTES :

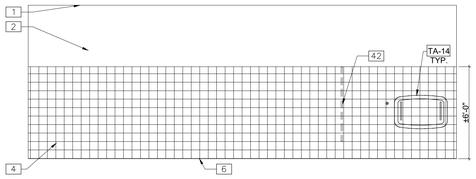
1. REFER TO SHEET A-109 FOR INTERIOR GENERAL NOTES.



38 INT. ELEVATION GIRLS RESTROOM F120
SCALE: 1/4" = 1'-0"



39 INT. ELEVATION GIRLS RESTROOM F120
SCALE: 1/4" = 1'-0"



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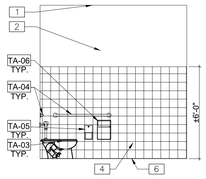
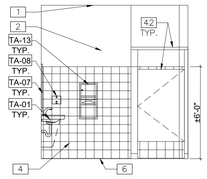
SCALE: 1/4" = 1'-0"



41 INT. ELEVATION GIRLS RESTROOM F120
SCALE: 1/4" = 1'-0"



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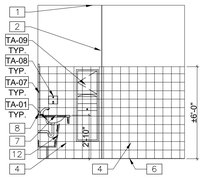
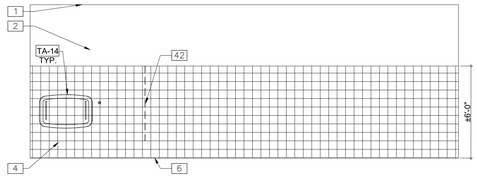
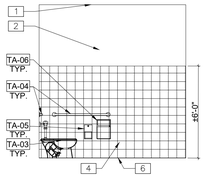
SCALE: 1/4" = 1'-0"



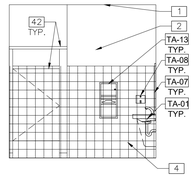
43 INT. ELEVATION BOYS RESTROOM F121
SCALE: 1/4" = 1'-0"



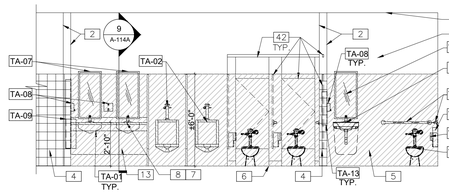
32 INT. ELEVATION BOYS RESTROOM F121
SCALE: 1/4" = 1'-0"



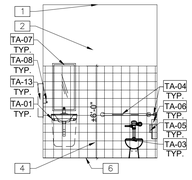
33 INT. ELEVATION BOYS RESTROOM F121
SCALE: 1/4" = 1'-0"



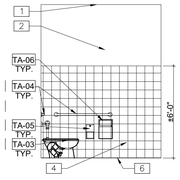
34 INT. ELEVATION BOYS RESTROOM F121
SCALE: 1/4" = 1'-0"



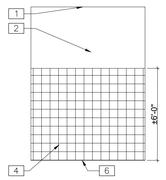
35 INT. ELEVATION BOYS RESTROOM F121
SCALE: 1/4" = 1'-0"



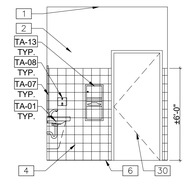
36 INT. ELEVATION STAFF RESTROOM F111
SCALE: 1/4" = 1'-0"



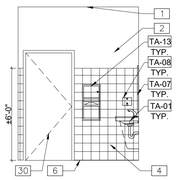
37 INT. ELEVATION STAFF RESTROOM F111
SCALE: 1/4" = 1'-0"



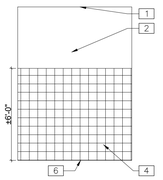
23 INT. ELEVATION STAFF RESTROOM F111
SCALE: 1/4" = 1'-0"



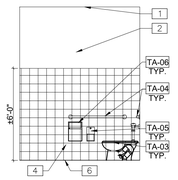
24 INT. ELEVATION STAFF RESTROOM F111
SCALE: 1/4" = 1'-0"



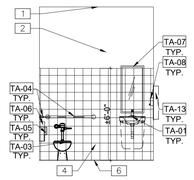
25 INT. ELEVATION STAFF RESTROOM F110
SCALE: 1/4" = 1'-0"



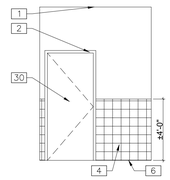
26 INT. ELEVATION STAFF RESTROOM F110
SCALE: 1/4" = 1'-0"



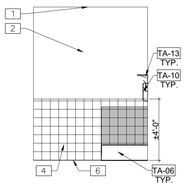
27 INT. ELEVATION STAFF RESTROOM F110
SCALE: 1/4" = 1'-0"



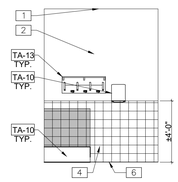
28 INT. ELEVATION STAFF RESTROOM F110
SCALE: 1/4" = 1'-0"



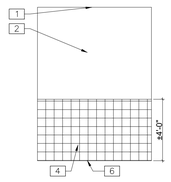
29 INT. ELEVATION JANITOR E109
SCALE: 1/4" = 1'-0"



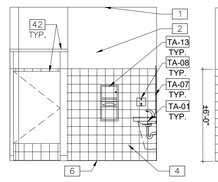
30 INT. ELEVATION JANITOR E109
SCALE: 1/4" = 1'-0"



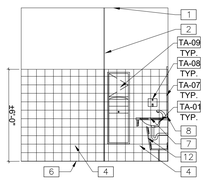
31 INT. ELEVATION JANITOR E109
SCALE: 1/4" = 1'-0"



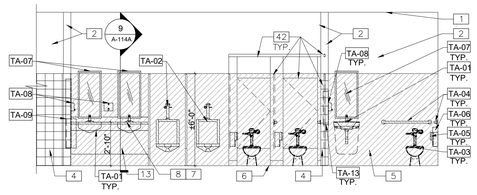
17 INT. ELEVATION JANITOR E109
SCALE: 1/4" = 1'-0"



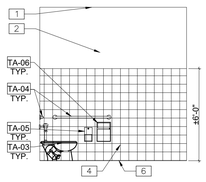
18 INT. ELEVATION BOYS RESTROOM E112
SCALE: 1/4" = 1'-0"



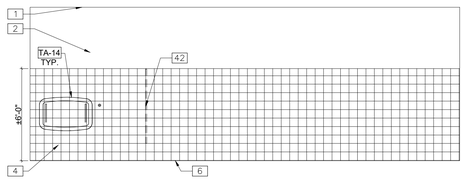
19 INT. ELEVATION BOYS RESTROOM E112
SCALE: 1/4" = 1'-0"



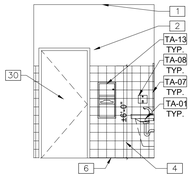
20 INT. ELEVATION BOYS RESTROOM E112
SCALE: 1/4" = 1'-0"



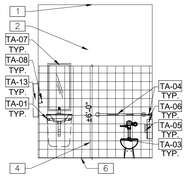
21 INT. ELEVATION BOYS RESTROOM E112
SCALE: 1/4" = 1'-0"



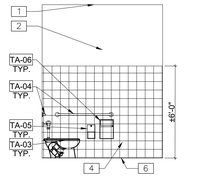
22 INT. ELEVATION BOYS RESTROOM E112
SCALE: 1/4" = 1'-0"



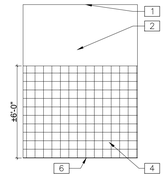
9 INT. ELEVATION STAFF RESTROOM E123
SCALE: 1/4" = 1'-0"



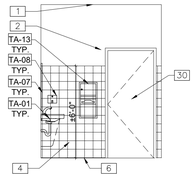
10 INT. ELEVATION STAFF RESTROOM E123
SCALE: 1/4" = 1'-0"



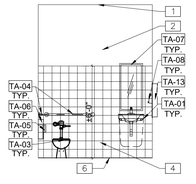
11 INT. ELEVATION STAFF RESTROOM E123
SCALE: 1/4" = 1'-0"



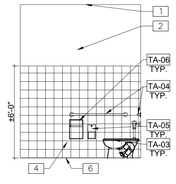
12 INT. ELEVATION STAFF RESTROOM E123
SCALE: 1/4" = 1'-0"



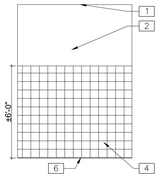
13 INT. ELEVATION STAFF RESTROOM E124
SCALE: 1/4" = 1'-0"



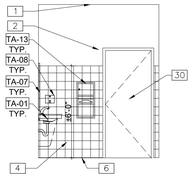
14 INT. ELEVATION STAFF RESTROOM E124
SCALE: 1/4" = 1'-0"



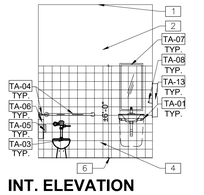
15 INT. ELEVATION STAFF RESTROOM E124
SCALE: 1/4" = 1'-0"



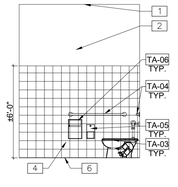
16 INT. ELEVATION STAFF RESTROOM E124
SCALE: 1/4" = 1'-0"



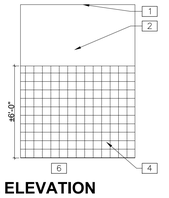
1 INT. ELEVATION STAFF RESTROOM E125
SCALE: 1/4" = 1'-0"



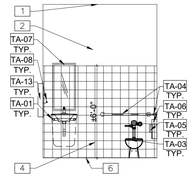
2 INT. ELEVATION STAFF RESTROOM E125
SCALE: 1/4" = 1'-0"



3 INT. ELEVATION STAFF RESTROOM E125
SCALE: 1/4" = 1'-0"



4 INT. ELEVATION STAFF RESTROOM E125
SCALE: 1/4" = 1'-0"



5 INT. ELEVATION STAFF RESTROOM E100
SCALE: 1/4" = 1'-0"

6 INT. ELEVATION STAFF RESTROOM E100
SCALE: 1/4" = 1'-0"

7 INT. ELEVATION STAFF RESTROOM E100
SCALE: 1/4" = 1'-0"

8 INT. ELEVATION STAFF RESTROOM E100
SCALE: 1/4" = 1'-0"

KEYED NOTES : #

1. CEILING AS SCHEDULE
2. WALL FINISH AS SCHEDULE – TYPICAL
3. WALL BASE AS SCHEDULE – TYPICAL
4. WALL TILE AS SCHEDULE – TYPICAL
5. EPOXY/RESIN WALL FINISH AS SCHEDULE – TYPICAL
6. FLOOR FINISH AS SCHEDULE
7. SOLID SURFACE COUNTER TOP – TYPICAL
8. SOLID SURFACE BACKSPLASH – TYPICAL
9. PLASTIC LAMINATE CLAD CABINETS – TYPICAL
10. PLASTIC LAMINATE CLAD BACKSPLASH – TYPICAL
11. PLASTIC LAMINATE CLAD COUNTER TOP – TYPICAL
12. PLASTIC LAMINATE CLAD ¾" THICK ADJUSTABLE SHELVES – TYPICAL
13. PLASTIC LAMINATE CLAD "ADA" COMPLAINT REMOVAL FRONT PANEL AND TOE BOARD – TYPICAL
14. CLEAR TEMPERED GLASS VISIBILITY PANELS – TYPICAL ALL SCIENCE CLASSROOMS
15. EXPOSED STRUCTURE – PAINTED
16. GYPSUM BOARD CEILING FURR–DOWN
17. FIRE EXTINGUISHER CABINET, COORDINATE FINAL LOCATION WITH ARCHITECT AND MEP COMPONENTS – TYPICAL
18. OWNER FURNISHED AND INSTALLED WOOD LABORATORY CASEWORK
19. REFRIGERATOR – OWNER PROVIDED
20. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
21. SECURITY ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
22. ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
23. HOLLOW METAL FRAME WINDOW – TYPICAL
24. ALUMINUM STOREFRONT WINDOW – TYPICAL
25. RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26. DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27. RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP–LIGHTING SYSTEM
27A. PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28. FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
29. OWNER FURNISHED AND INSTALLED STOVE
30. DOOR AS SCHEDULE
31. METAL SUPPORT BRACKET – POWDER COATED – BLACK
32. PLASTIC LAMINATE INTERMEDIATE SUPPORT LEG TO FLOOR EVERY OTHER STATION
33. ELECTRICAL OUTLET AND DATA OUTLET AT 48" A.F.F. AT TECHNOLOGY LABS– TYPICAL
34. WELDED ATHLETIC LOCKER – DOUBLE TIER WITH SLOPE TOPS AS DRESSING ROOMS
35. LOCKER ROOM BENCH – TYPE A
36. LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37. FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38. SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39. PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40. IMPACT RESISTANT WALL COVERING
41. CEILING CLOUD WITH SPECIALTY EDGE TRIM
42. SOLID–POLYMER TOILET COMPARTMENT
43. SOLID–POLYMER URINAL SCREEN
44. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
45. DEDICATION PLAQUE BY CONTRACTOR

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	18" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-09	RECESSED 12 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-10	SURFACE MOUNTED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	
		ACCESSIBLE	
TA-11	MOP AND BROOM HOLDER		
TA-12	CUSTODIAL SURFACE MOUNTED ,2 GAL PAPER TOWEL DISPENSER	STANDARD	
		ACCESSIBLE	
TA-13	RECESSED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)		
TA-14	WALL MOUNTED BABY CHANGING TABLE (MEASURED FROM FLOOR TO CENTERLINE OF HINGE)	ACCESSIBLE	30"

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.
6. TA-14 - WALL MOUNTED BABY CHANGING TABLE - SHOULD NOT BE PROVIDED AT THE FOLLOWING CAMPUSES - ODESSA P2, MIDLAND P3, AND CITY PLACE P2.

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9801 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 22855

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

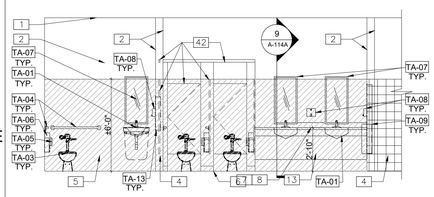
Drawn: RD
Checked: RG

Revisions:

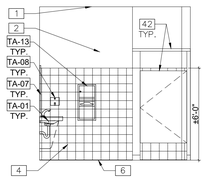
No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-108



INT. ELEVATION
35 GIRLS RESTROOM C100
SCALE: 1/4" = 1'-0"



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36 GIRLS RESTROOM C100
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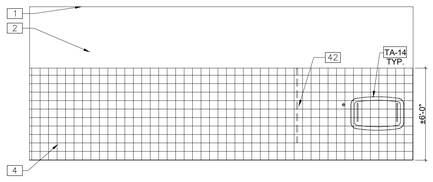

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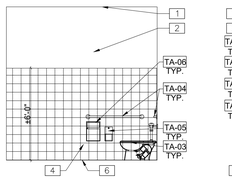

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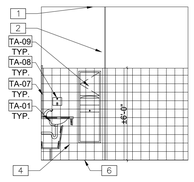

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39 GIRLS RESTROOM C100
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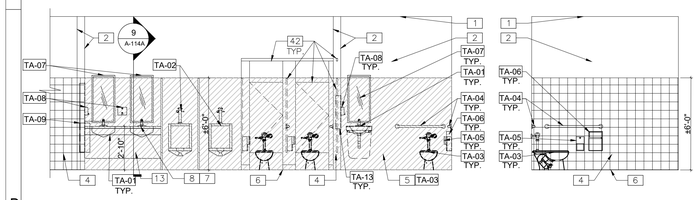
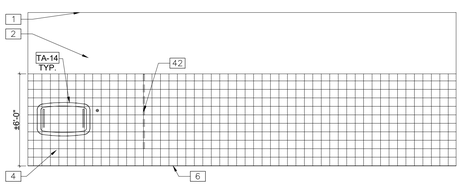


INT. ELEVATION
30 BOYS RESTROOM D108
SCALE: 1/4" = 1'-0"

INT. ELEVATION
31 BOYS RESTROOM D108
SCALE: 1/4" = 1'-0"



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32 BOYS RESTROOM D108
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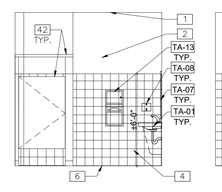

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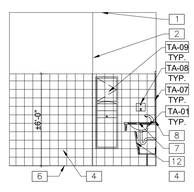
33 BOYS RESTROOM D108
SCALE: 1/4" = 1'-0"



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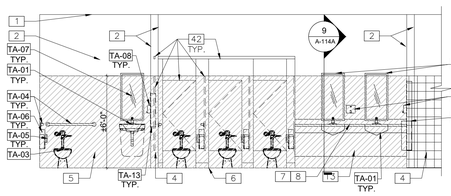
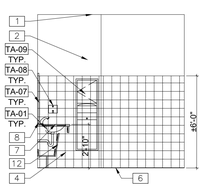
34 BOYS RESTROOM D108
SCALE: 1/4" = 1'-0"



INT. ELEVATION
25 GIRLS RESTROOM D107
SCALE: 1/4" = 1'-0"



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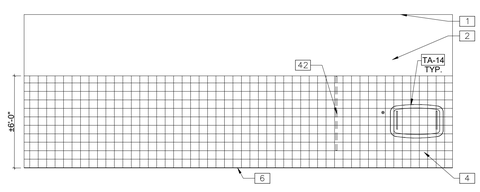

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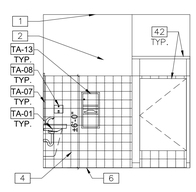

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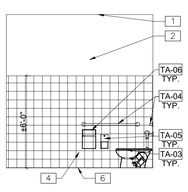
28 GIRLS RESTROOM D107
SCALE: 1/4" = 1'-0"



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29 GIRLS RESTROOM D107
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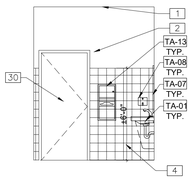
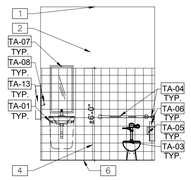


INT. ELEVATION
17 STAFF RESTROOM D118
SCALE: 1/4" = 1'-0"



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18 STAFF RESTROOM D118
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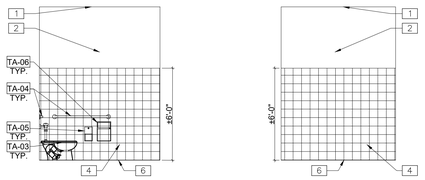
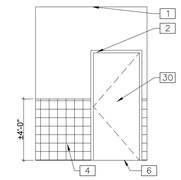
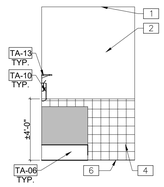


INT. ELEVATION
19 STAFF RESTROOM D118
SCALE: 1/4" = 1'-0"

INT. ELEVATION
20 STAFF RESTROOM D118
SCALE: 1/4" = 1'-0"



INT. ELEVATION
21 JANITOR D119
SCALE: 1/4" = 1'-0"



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22 JANITOR D119
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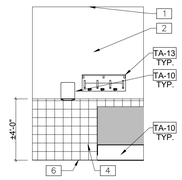

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23 JANITOR D119
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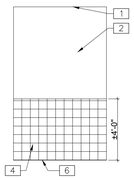

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24 JANITOR D119
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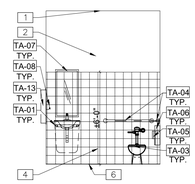
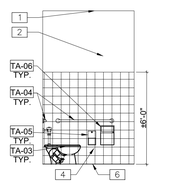
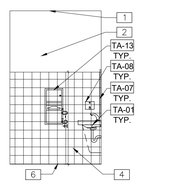


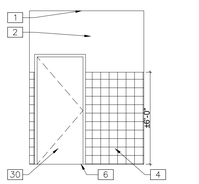
INT. ELEVATION
LIFE SKILLS
9 RESTROOM E104A
SCALE: 1/4" = 1'-0"



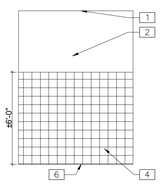
INT. ELEVATION
LIFE SKILLS
10 RESTROOM E104A
SCALE: 1/4" = 1'-0"



INT. ELEVATION
LIFE SKILLS
11 RESTROOM E104A
SCALE: 1/4" = 1'-0"



INT. ELEVATION
LIFE SKILLS
12 RESTROOM E104A
SCALE: 1/4" = 1'-0"



INT. ELEVATION
13 STAFF RESTROOM D117
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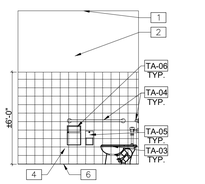

INT. ELEVATION
14 STAFF RESTROOM D117
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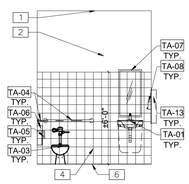

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15 STAFF RESTROOM D117
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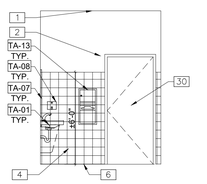
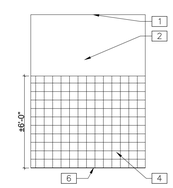


INT. ELEVATION
16 STAFF RESTROOM D117
SCALE: 1/4" = 1'-0"



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1 STAFF RESTROOM E101
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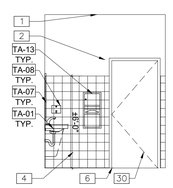

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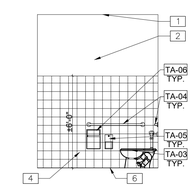
2 STAFF RESTROOM E101
SCALE: 1/4" = 1'-0"



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3 STAFF RESTROOM E101
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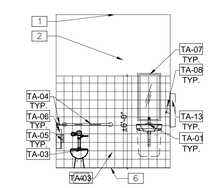

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4 STAFF RESTROOM E101
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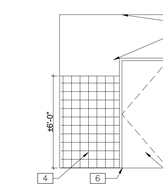

INT. ELEVATION
5 SPED RESTROOM E102A
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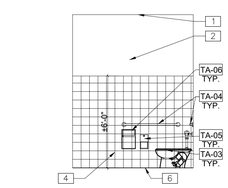

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6 SPED RESTROOM E102A
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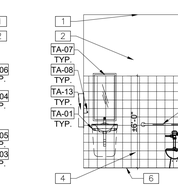
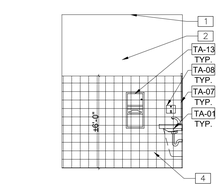


INT. ELEVATION
7 SPED RESTROOM E102A
SCALE: 1/4" = 1'-0"



INT. ELEVATION
8 SPED RESTROOM E102A
SCALE: 1/4" = 1'-0"

GENERAL NOTES :

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH "ADA".
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. PROVIDE WOOD BLOCKING SUPPORT AS REQUIRED FOR ALL MARKER BOARDS, LCD MONITORS, FLAT PANEL DISPLAYS, AND PROJECTION SCREENS. COORDINATE FINAL LOCATIONS WITH OWNER.
6. PROVIDE A PAPER TOWEL DISPENSER AND SOAP DISPENSER AT ALL SCIENCE CLASSROOMS, SCIENCE LAB, ART ROOM, MAKER'S LAB, NURSE, TEACHER'S LOUNGE AND SERVING KIOSK. COORDINATE LOCATION WITH ARCHITECT.
7. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.
8. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC. TO MATCH ADJACENT SURFACES, COORDINATE WITH ARCHITECT.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND LOW VOLTAGE DRAWINGS FOR ADDITIONAL WALL AND CEILING COMPONENTS, COORDINATE WITH ARCHITECT. NOT ALL COMPONENTS SHOWN FOR CLARITY.
11. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
12. FLOOR TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
13. REFER TO "CS" SHEETS FOR WALL TILE AND EPOXY/RESIN FINISH SELECTIONS.

KEYED NOTES : #

1. CEILING AS SCHEDULE
2. WALL FINISH AS SCHEDULE – TYPICAL
3. WALL BASE AS SCHEDULE – TYPICAL
4. WALL TILE AS SCHEDULE – TYPICAL
5. EPOXY/RESIN WALL FINISH AS SCHEDULE – TYPICAL
6. FLOOR FINISH AS SCHEDULE
7. SOLID SURFACE COUNTER TOP – TYPICAL
8. SOLID SURFACE BACKSPLASH – TYPICAL
9. PLASTIC LAMINATE CLAD CABINETS – TYPICAL
10. PLASTIC LAMINATE CLAD BACKSPLASH – TYPICAL
11. PLASTIC LAMINATE CLAD COUNTER TOP – TYPICAL
12. PLASTIC LAMINATE CLAD ¾" THICK ADJUSTABLE SHELVES – TYPICAL
13. PLASTIC LAMINATE CLAD "ADA" COMPLAINT REMOVAL FRONT PANEL AND TOE BOARD – TYPICAL
14. CLEAR TEMPERED GLASS VISIBILITY PANELS – TYPICAL ALL SCIENCE CLASSROOMS
15. EXPOSED STRUCTURE – PAINTED
16. GYPSUM BOARD CEILING FURR–DOWN
17. FIRE EXTINGUISHER CABINET, COORDINATE FINAL LOCATION WITH ARCHITECT AND MEP COMPONENTS – TYPICAL
18. OWNER FURNISHED AND INSTALLED WOOD LABORATORY CASEWORK
19. REFRIGERATOR – OWNER PROVIDED
20. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
21. SECURITY ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
22. ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
23. HOLLOW METAL FRAME WINDOW – TYPICAL
24. ALUMINUM STOREFRONT WINDOW – TYPICAL
25. RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26. DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27. RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP–LIGHTING SYSTEM
27A. PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28. FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
29. OWNER FURNISHED AND INSTALLED STOVE
30. DOOR AS SCHEDULE
31. METAL SUPPORT BRACKET – POWDER COATED – BLACK
32. PLASTIC LAMINATE INTERMEDIATE SUPPORT LEG TO FLOOR EVERY OTHER STATION
33. ELECTRICAL OUTLET AND DATA OUTLET AT 48" A.F.F. AT TECHNOLOGY LABS– TYPICAL
34. WELDED ATHLETIC LOCKER – DOUBLE TIER WITH SLOPE TOPS AS DRESSING ROOMS
35. LOCKER ROOM BENCH – TYPE A
36. LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37. FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38. SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39. PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40. IMPACT RESISTANT WALL COVERING
41. CEILING CLOUD WITH SPECIALTY EDGE TRIM
42. SOLID–POLYMER TOILET COMPARTMENT
43. SOLID–POLYMER URINAL SCREEN
44. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
45. DEDICATION PLAQUE BY CONTRACTOR

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	18" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-09	RECESSED 12 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-10	SURFACE MOUNTED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	
		ACCESSIBLE	
TA-11	MOP AND BROOM HOLDER		
TA-12	CUSTODIAL SURFACE MOUNTED .2 GAL PAPER TOWEL DISPENSER	STANDARD	
		ACCESSIBLE	
TA-13	RECESSED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)		
TA-14	WALL MOUNTED BABY CHANGING TABLE (MEASURED FROM FLOOR TO CENTERLINE OF HINGE)	ACCESSIBLE	30"

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.
6. TA-14 - WALL MOUNTED BABY CHANGING TABLE - SHOULD NOT BE PROVIDED AT THE FOLLOWING CAMPUSES - ODESSA P2, MIDLAND P3, AND CITY PLACE P2

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

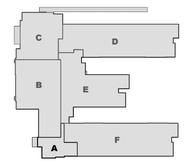
CONSULTANTS:
CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242
LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
22355
STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



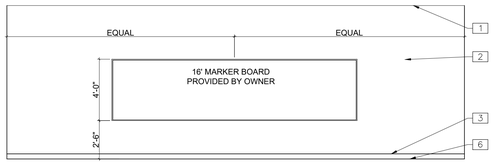
KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG
Revisions:

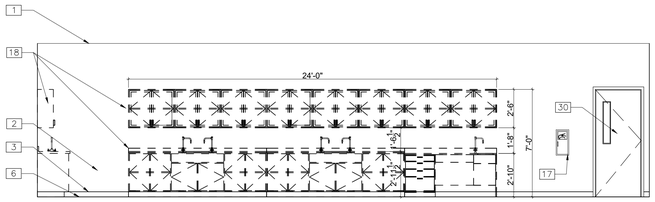
No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-109



24 INT. ELEVATION ENGINEERING LAB D125
SCALE: 1/4" = 1'-0"



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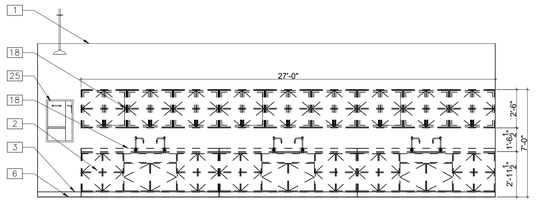

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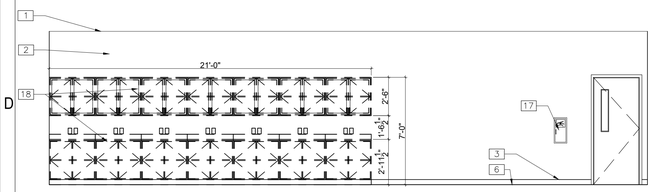

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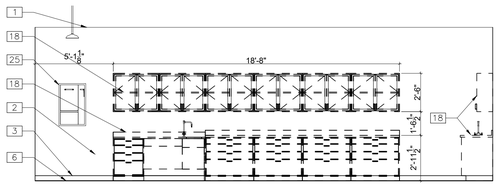

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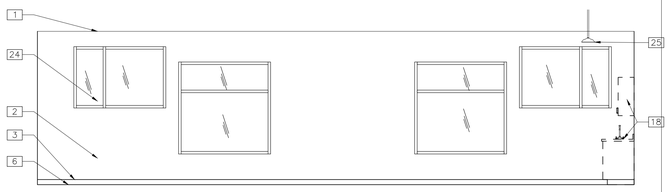

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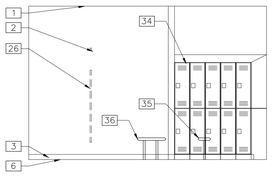
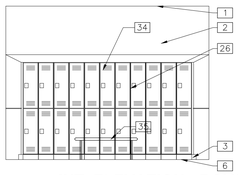


17 INT. ELEVATION - BOYS DRESSING ROOM D112
SCALE: 1/4" = 1'-0"



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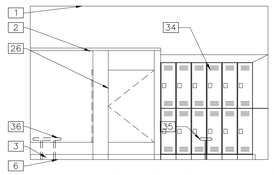

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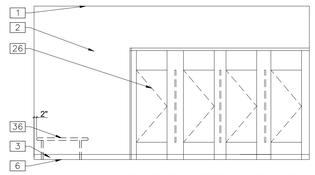

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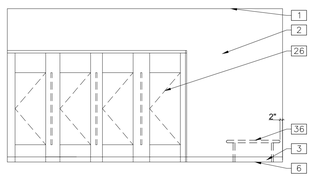

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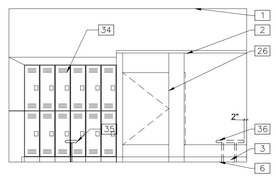

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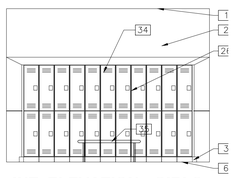

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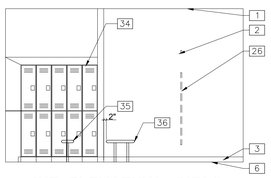
SCALE: 1/4" = 1'-0"



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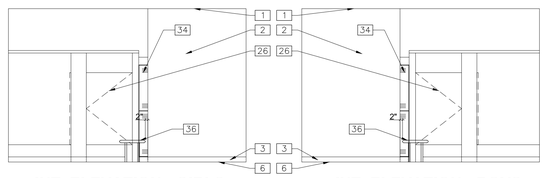
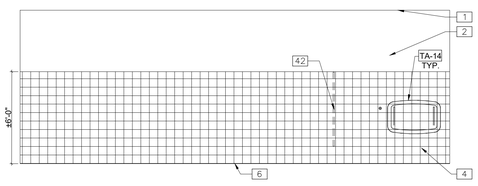
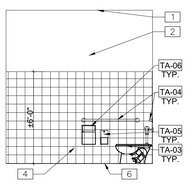


15 INT. ELEVATION - GIRLS DRESSING ROOM D112
SCALE: 1/4" = 1'-0"

16 INT. ELEVATION - BOYS DRESSING ROOM D112
SCALE: 1/4" = 1'-0"



6 INT. ELEVATION GIRLS RESTROOM E111
SCALE: 1/4" = 1'-0"



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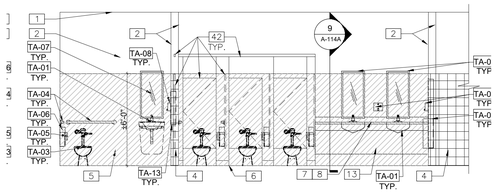

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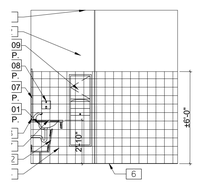

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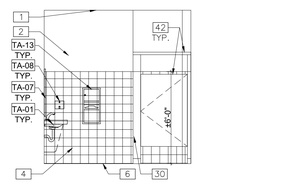

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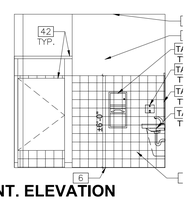

1 INT. ELEVATION BOYS RESTROOM C101
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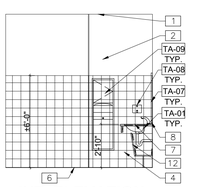

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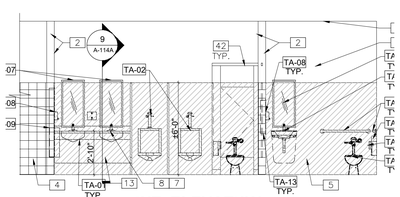

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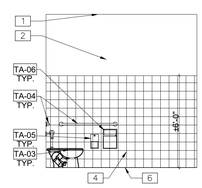

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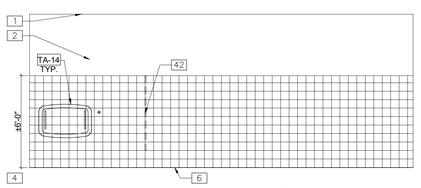

5 INT. ELEVATION BOYS RESTROOM C101
SCALE: 1/4" = 1'-0"

GENERAL NOTES :

1. REFER TO SHEET A-109 FOR INTERIOR GENERAL NOTES.

OWNER FURNISHED AND INSTALLED
WOOD LABORATORY CASEWORK GENERAL NOTE:

1. SHOWN FOR REFERENCE ONLY, WOOD LABORATORY CASEWORK AND EQUIPMENT TO BE PROVIDED AND INSTALLED BY OWNER.
   - BIO-MED LAB D124
   - ENGINEERING LAB D125
   - MS SCIENCE LAB D127
   - CHEMISTRY LAB E109
   - PHYSICS LAB E114
   - BIOLOGY LAB E126
2. CONTRACTOR TO PROVIDE ALL PLUMBING PIPING AND INSTALLATION OF CONTRACTOR AND OWNER ITEMS.
   - SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 3" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
   - SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 5" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
3. CONTRACTOR TO PROVIDE ALL ELECTRICAL ROUGH-IN AND FINAL CONNECTION OF CONTRACTOR AND OWNER PROVIDED ITEMS.
   - ELECTRICAL POWER OUTLETS AT WOOD LABORATORY CASEWORK STATION IN CHEMISTRY LAB E109 AND PHYSICS LAB E114 TO BE CONTRACTOR PROVIDED AND INSTALLED.
4. REFER TO OVERALL FURNITURE PLAN SHEET, INTERIOR ELEVATIONS SHEETS AND MEP SHEETS FOR ADDITIONAL INFORMATION.

KEYED NOTES : #

1. CEILING AS SCHEDULE
2. WALL FINISH AS SCHEDULE – TYPICAL
3. WALL BASE AS SCHEDULE – TYPICAL
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25. RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26. DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27. RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP–LIGHTING SYSTEM
27A. PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28. FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
29. OWNER FURNISHED AND INSTALLED STOVE
30. DOOR AS SCHEDULE
31. METAL SUPPORT BRACKET – POWDER COATED – BLACK
32. PLASTIC LAMINATE INTERMEDIATE SUPPORT LEG TO FLOOR EVERY OTHER STATION
33. ELECTRICAL OUTLET AND DATA OUTLET AT 48" A.F.F. AT TECHNOLOGY LABS– TYPICAL
34. WELDED ATHLETIC LOCKER – DOUBLE TIER WITH SLOPE TOPS AS DRESSING ROOMS
35. LOCKER ROOM BENCH – TYPE A
36. LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37. FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38. SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39. PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40. IMPACT RESISTANT WALL COVERING
41. CEILING CLOUD WITH SPECIALTY EDGE TRIM
42. SOLID–POLYMER TOILET COMPARTMENT
43. SOLID–POLYMER URINAL SCREEN
44. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	18" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-09	RECESSED 12 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-10	SURFACE MOUNTED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	
		ACCESSIBLE	
TA-11	MOP AND BROOM HOLDER		
TA-12	CUSTODIAL SURFACE MOUNTED ,2 GAL PAPER TOWEL DISPENSER	STANDARD	
		ACCESSIBLE	
TA-13	RECESSED, 2 GAL PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)		
TA-14	WALL MOUNTED BABY CHANGING TABLE (MEASURED FROM FLOOR TO CENTERLINE OF HINGE)	ACCESSIBLE	30"

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.
6. TA-14 - WALL MOUNTED BABY CHANGING TABLE - SHOULD NOT BE PROVIDED AT THE FOLLOWING CAMPUSES - ODESSA P2, MIDLAND P3, AND CITY PLACE P2.

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Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 12255 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
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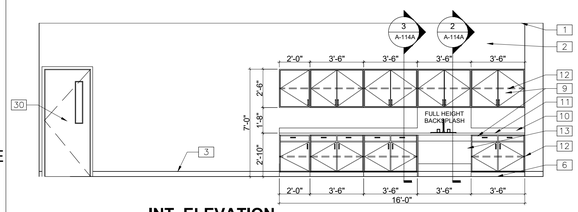
Revisions:

No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-110



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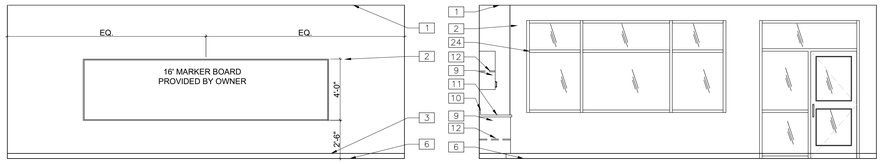
19 ART LAB E105
SCALE: 1/4" = 1'-0"



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20 ART LAB E105
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INT. ELEVATION
21 ART LAB E105
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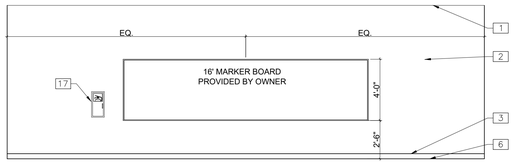

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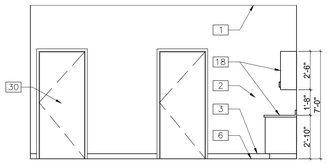

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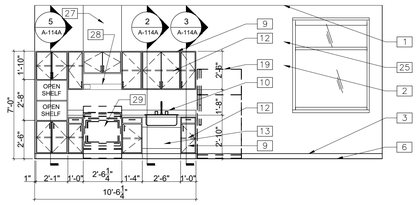

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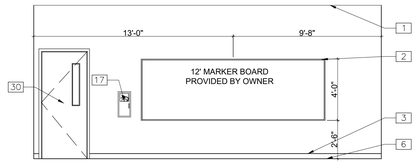

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INT. ELEVATION - MS
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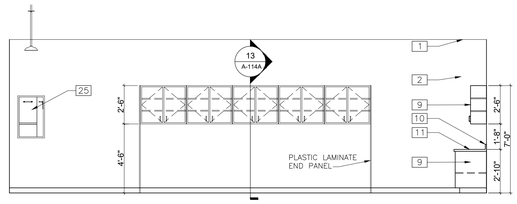

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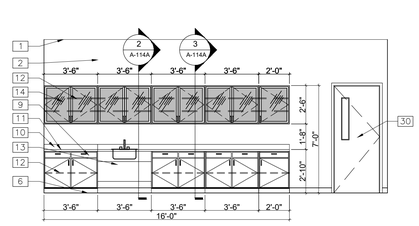

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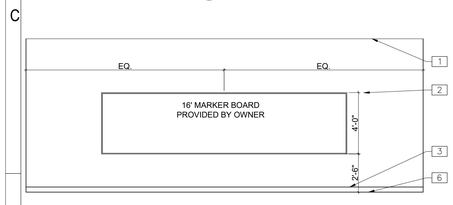

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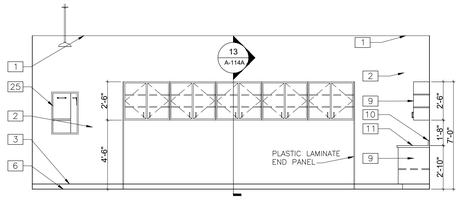

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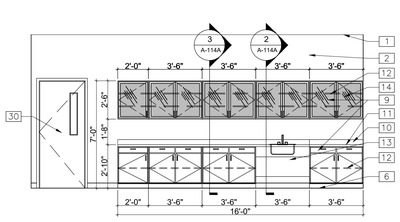

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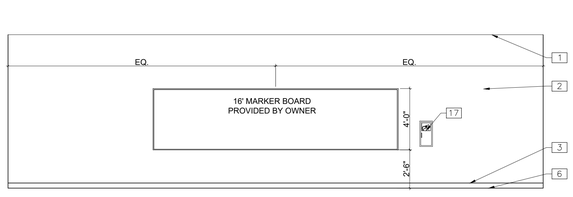

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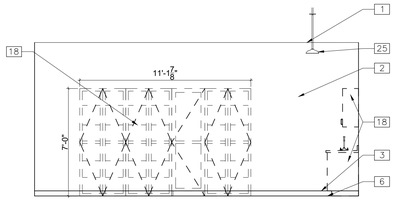

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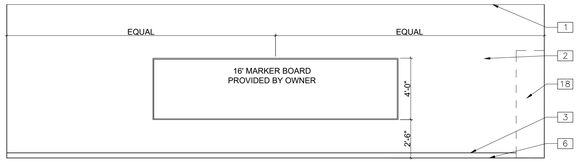
SCALE: 1/4" = 1'-0"



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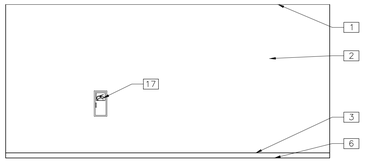

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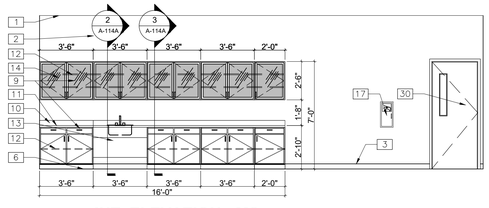

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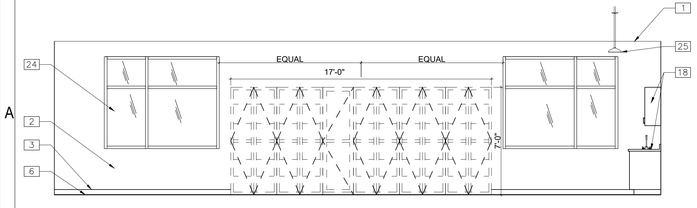

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1 BIO-MED LAB D124
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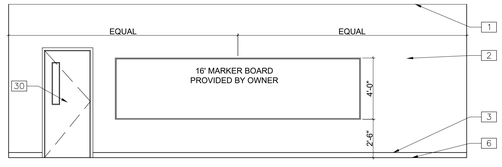

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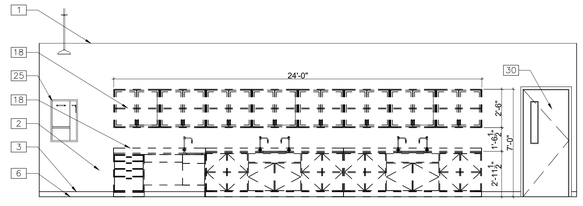

INT. ELEVATION
3 MS SCIENCE LAB D127
SCALE: 1/4" = 1'-0"

GENERAL NOTES :

1. REFER TO SHEET A-109 FOR INTERIOR GENERAL NOTES.

KEYED NOTES : #

1 CEILING AS SCHEDULE
2 WALL FINISH AS SCHEDULE – TYPICAL
3 WALL BASE AS SCHEDULE – TYPICAL
4 WALL TILE AS SCHEDULE – TYPICAL
5 EPOXY/RESIN WALL FINISH AS SCHEDULE – TYPICAL
6 FLOOR FINISH AS SCHEDULE
7 SOLID SURFACE COUNTER TOP – TYPICAL
8 SOLID SURFACE BACKSPLASH – TYPICAL
9 PLASTIC LAMINATE CLAD CABINETS – TYPICAL
10 PLASTIC LAMINATE CLAD BACKSPLASH – TYPICAL
11 PLASTIC LAMINATE CLAD COUNTER TOP – TYPICAL
12 PLASTIC LAMINATE CLAD ¾" THICK ADJUSTABLE SHELVES – TYPICAL
13 PLASTIC LAMINATE CLAD "ADA" COMPLAINT REMOVAL FRONT PANEL AND TOE BOARD – TYPICAL
14 CLEAR TEMPERED GLASS VISIBILITY PANELS – TYPICAL ALL SCIENCE CLASSROOMS
15 EXPOSED STRUCTURE – PAINTED
16 GYPSUM BOARD CEILING FURR–DOWN
17 FIRE EXTINGUISHER CABINET, COORDINATE FINAL LOCATION WITH ARCHITECT AND MEP COMPONENTS – TYPICAL
18 OWNER FURNISHED AND INSTALLED WOOD LABORATORY CASEWORK
19 REFRIGERATOR – OWNER PROVIDED
20 HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
21 SECURITY ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
22 ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
23 HOLLOW METAL FRAME WINDOW – TYPICAL
24 ALUMINUM STOREFRONT WINDOW – TYPICAL
25 RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26 DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27 RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP–LIGHTING SYSTEM
27A PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28 FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
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35 LOCKER ROOM BENCH – TYPE A
36 LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37 FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38 SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39 PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40 IMPACT RESISTANT WALL COVERING
41 CEILING CLOUD WITH SPECIALTY EDGE TRIM
42 SOLID–POLYMER TOILET COMPARTMENT
43 SOLID–POLYMER URINAL SCREEN
44 HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
45 DEDICATION PLAQUE BY CONTRACTOR

OWNER FURNISHED AND INSTALLED
WOOD LABORATORY CASEWORK GENERAL NOTE:

1. SHOWN FOR REFERENCE ONLY. WOOD LABORATORY CASEWORK AND EQUIPMENT TO BE PROVIDED AND INSTALLED BY OWNER.
   - BIO-MED LAB D124
   - ENGINEERING LAB D125
   - MS SCIENCE LAB D127
   - CHEMISTRY LAB E109
   - PHYSICS LAB E114
   - BIOLOGY LAB E126
2. CONTRACTOR TO PROVIDE ALL PLUMBING PIPING AND INSTALLATION OF CONTRACTOR AND OWNER ITEMS.
   - SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 3" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
   - SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 5" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
3. CONTRACTOR TO PROVIDE ALL ELECTRICAL ROUGH-IN AND FINAL CONNECTION OF CONTRACTOR AND OWNER PROVIDED ITEMS.
   - ELECTRICAL POWER OUTLETS AT WOOD LABORATORY CASEWORK STATION IN CHEMISTRY LAB E109 AND PHYSICS LAB E114 TO BE CONTRACTOR PROVIDED AND INSTALLED.
4. REFER TO OVERALL FURNITURE PLAN SHEET, INTERIOR ELEVATIONS SHEETS AND MEP SHEETS FOR ADDITIONAL INFORMATION.

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Foodservice Design Professionals
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REGISTERED ARCHITECT RAYMUND D. GIGNAC 8366 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
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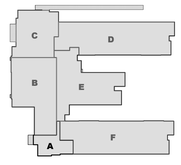

KEYPLAN

Project Number: 24.23
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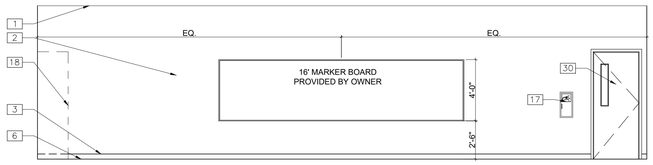
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-111



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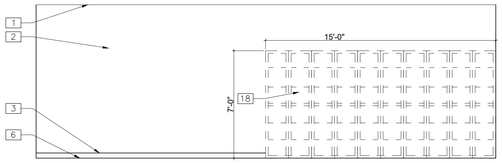

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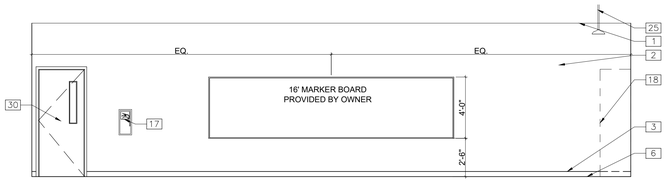

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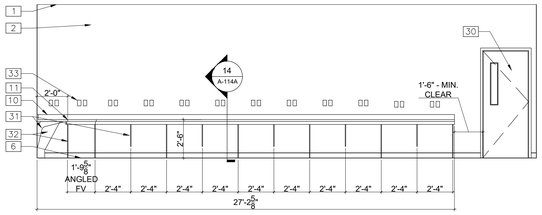
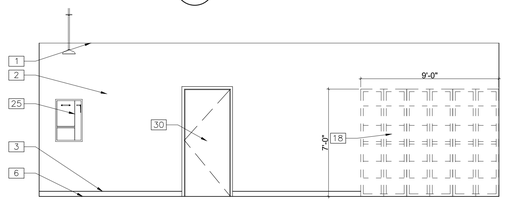


INT. ELEVATION
15 TECHNOLOGY LAB E108
SCALE: 1/4" = 1'-0"



INT. ELEVATION
16 CHEMISTRY LAB E109
SCALE: 1/4" = 1'-0"



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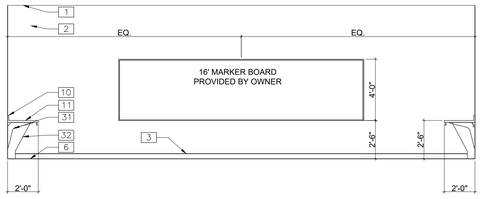
17 CHEMISTRY LAB E109
SCALE: 1/4" = 1'-0"



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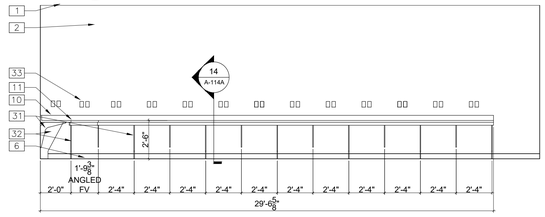
SCALE: 1/4" = 1'-0"



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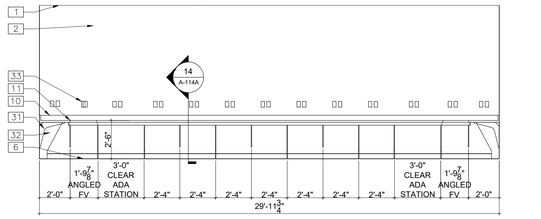
13 TECHNOLOGY LAB E108
SCALE: 1/4" = 1'-0"



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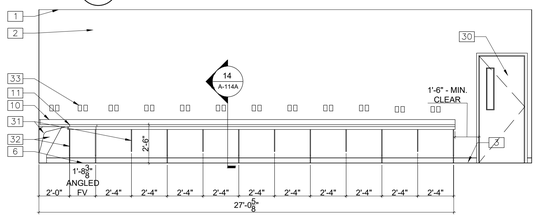

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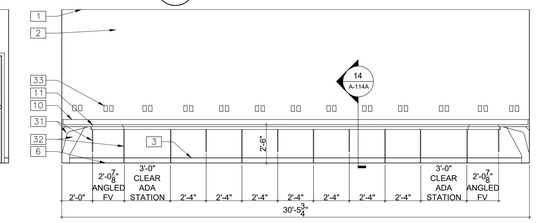
SCALE: 1/4" = 1'-0"



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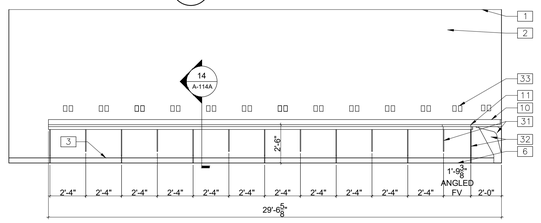
SCALE: 1/4" = 1'-0"



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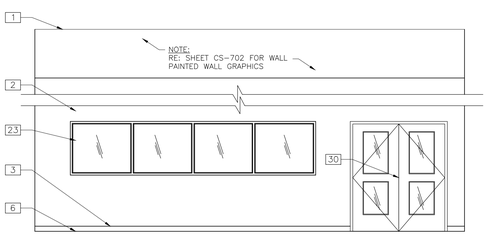
SCALE: 1/4" = 1'-0"



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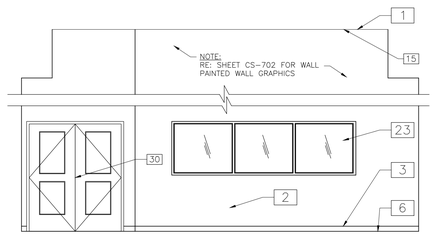
5 MAKER SPACE B100
SCALE: 1/4" = 1'-0"



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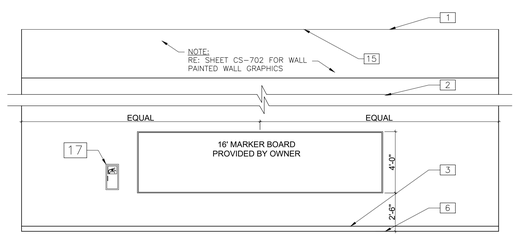
6 MAKER SPACE B100
SCALE: 1/4" = 1'-0"



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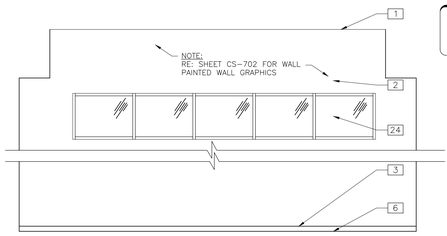
7 MAKER SPACE B100
SCALE: 1/4" = 1'-0"



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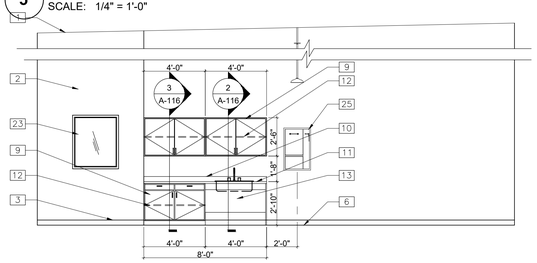
8 MAKER SPACE B100
SCALE: 1/4" = 1'-0"



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1 MAKER SHOP B101
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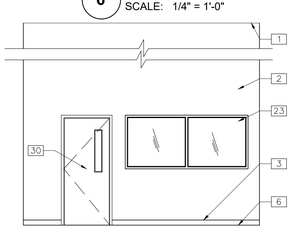

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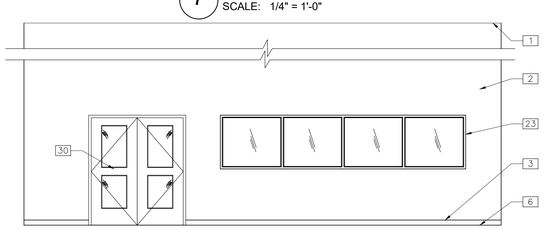
SCALE: 1/4" = 1'-0"



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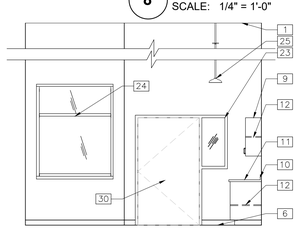
3 MAKER SHOP B101
SCALE: 1/4" = 1'-0"



INT. ELEVATION
4 MAKER SHOP B101
SCALE: 1/4" = 1'-0"

KEYED NOTES : #

1. CEILING AS SCHEDULE
2. WALL FINISH AS SCHEDULE – TYPICAL
3. WALL BASE AS SCHEDULE – TYPICAL
4. WALL TILE AS SCHEDULE – TYPICAL
5. EPOXY/RESIN WALL FINISH AS SCHEDULE – TYPICAL
6. FLOOR FINISH AS SCHEDULE
7. SOLID SURFACE COUNTER TOP – TYPICAL
8. SOLID SURFACE BACKSPLASH – TYPICAL
9. PLASTIC LAMINATE CLAD CABINETS – TYPICAL
10. PLASTIC LAMINATE CLAD BACKSPLASH – TYPICAL
11. PLASTIC LAMINATE CLAD COUNTER TOP – TYPICAL
12. PLASTIC LAMINATE CLAD 3/4" THICK ADJUSTABLE SHELVES – TYPICAL
13. PLASTIC LAMINATE CLAD "ADA" COMPLAINT REMOVAL FRONT PANEL AND TOE BOARD – TYPICAL
14. CLEAR TEMPERED GLASS VISIBILITY PANELS – TYPICAL ALL SCIENCE CLASSROOMS
15. EXPOSED STRUCTURE – PAINTED
16. GYPSUM BOARD CEILING FURR-DOWN
17. FIRE EXTINGUISHER CABINET, COORDINATE FINAL LOCATION WITH ARCHITECT AND MEP COMPONENTS – TYPICAL
18. OWNER FURNISHED AND INSTALLED WOOD LABORATORY CASEWORK
19. REFRIGERATOR – OWNER PROVIDED
20. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
21. SECURITY ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
22. ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
23. HOLLOW METAL FRAME WINDOW – TYPICAL
24. ALUMINUM STOREFRONT WINDOW – TYPICAL
25. RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26. DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27. RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP-LIGHTING SYSTEM
27A. PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28. FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
29. OWNER FURNISHED AND INSTALLED STOVE
30. DOOR AS SCHEDULE
31. METAL SUPPORT BRACKET – POWDER COATED – BLACK
32. PLASTIC LAMINATE INTERMEDIATE SUPPORT LEG TO FLOOR EVERY OTHER STATION
33. ELECTRICAL OUTLET AND DATA OUTLET AT 48" A.F.F. AT TECHNOLOGY LABS– TYPICAL
34. WELDED ATHLETIC LOCKER – DOUBLE TIER WITH SLOPE TOPS AS DRESSING ROOMS
35. LOCKER ROOM BENCH – TYPE A
36. LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37. FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38. SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39. PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40. IMPACT RESISTANT WALL COVERING
41. CEILING CLOUD WITH SPECIALTY EDGE TRIM
42. SOLID-POLYMER TOILET COMPARTMENT
43. SOLID-POLYMER URINAL SCREEN
44. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
45. DEDICATION PLAQUE BY CONTRACTOR

GENERAL NOTES :

1. REFER TO SHEET A-109 FOR INTERIOR GENERAL NOTES.

OWNER FURNISHED AND INSTALLED
WOOD LABORATORY CASEWORK GENERAL NOTE:

1. SHOWN FOR REFERENCE ONLY. WOOD LABORATORY CASEWORK AND EQUIPMENT TO BE PROVIDED AND INSTALLED BY OWNER.
   - BIO-MED LAB D124
   - ENGINEERING LAB D125
   - MS SCIENCE LAB D127
   - CHEMISTRY LAB E109
   - PHYSICS LAB E114
   - BIOLOGY LAB E126
2. CONTRACTOR TO PROVIDE ALL PLUMBING PIPING AND INSTALLATION OF CONTRACTOR AND OWNER ITEMS.
   - -- SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 3" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
   - -- SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 5" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
3. CONTRACTOR TO PROVIDE ALL ELECTRICAL ROUGH-IN AND FINAL CONNECTION OF CONTRACTOR AND OWNER PROVIDED ITEMS.
   - -- ELECTRICAL POWER OUTLETS AT WOOD LABORATORY CASEWORK STATION IN CHEMISTRY LAB E109 AND PHYSICS LAB E114 TO BE CONTRACTOR PROVIDED AND INSTALLED.
4. REFER TO OVERALL FURNITURE PLAN SHEET, INTERIOR ELEVATIONS SHEETS AND MEP SHEETS FOR ADDITIONAL INFORMATION.

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CONSULTANTS:
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COBB FENDLEY & ASSOCIATES
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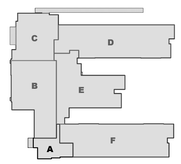
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6255 STATE OF TEXAS

EXPIRATION DATE 11/30/2026 SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

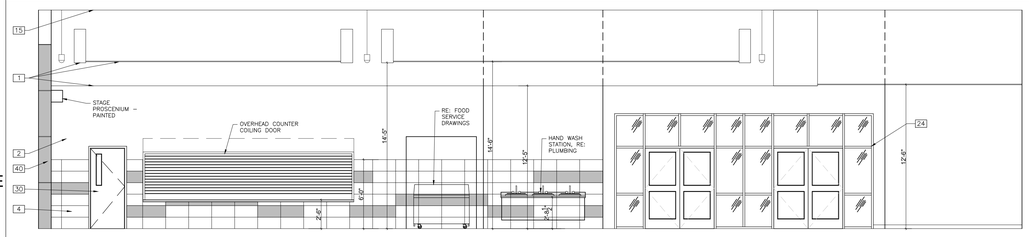
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-112



22 INT. ELEVATION CAFETERIA C103
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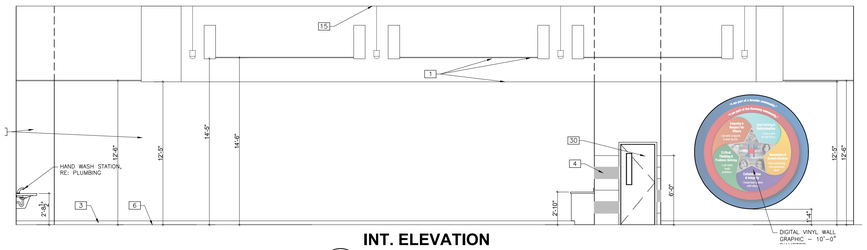

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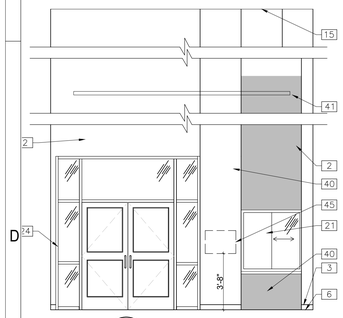

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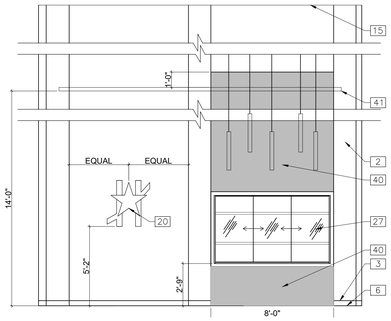

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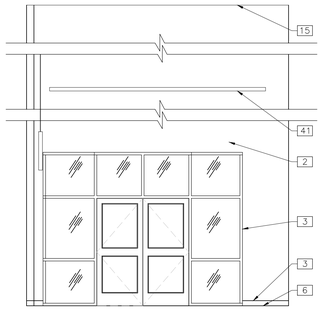

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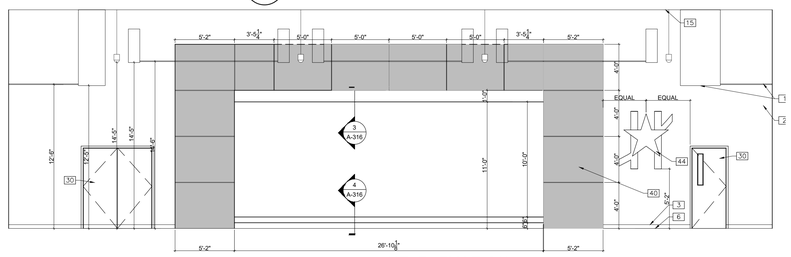

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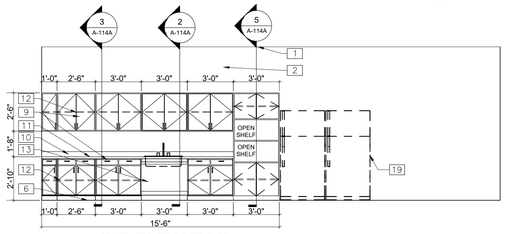

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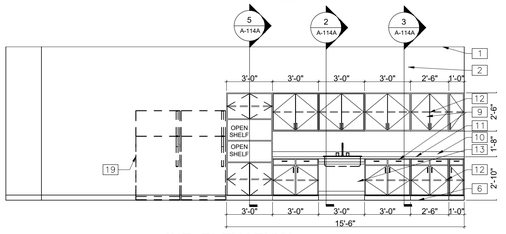

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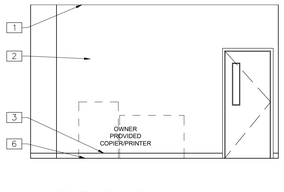

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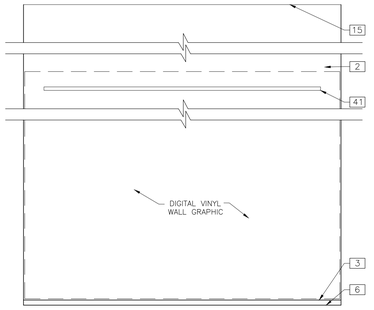

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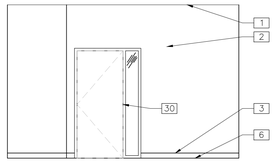

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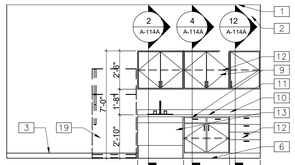

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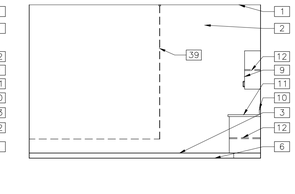

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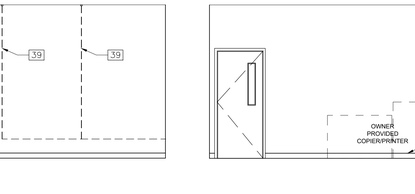

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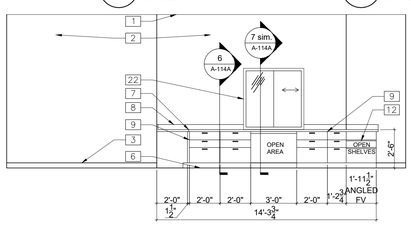

4 INT. ELEVATION FRONT OFFICE A113
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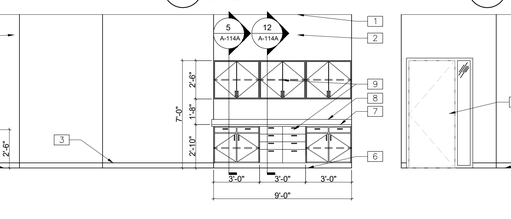

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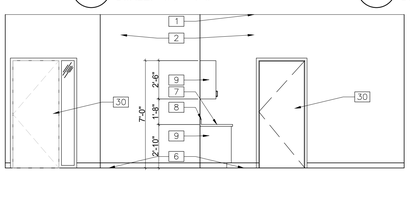

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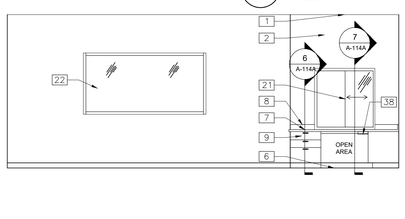

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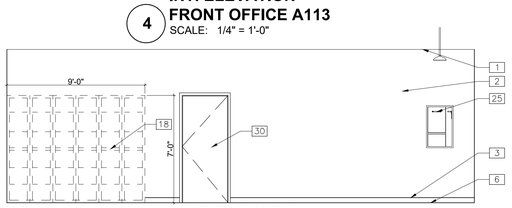
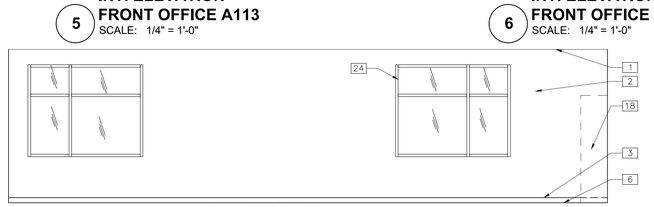


1 INT. ELEVATION BIOLOGY LAB E126
SCALE: 1/4" = 1'-0"



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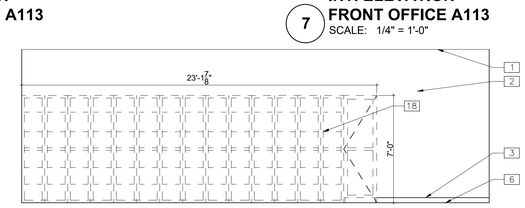

3 INT. ELEVATION BIOLOGY LAB E126
SCALE: 1/4" = 1'-0"

KEYED NOTES : #

1. CEILING AS SCHEDULE
2. WALL FINISH AS SCHEDULE – TYPICAL
3. WALL BASE AS SCHEDULE – TYPICAL
4. WALL TILE AS SCHEDULE – TYPICAL
5. EPOXY/RESIN WALL FINISH AS SCHEDULE – TYPICAL
6. FLOOR FINISH AS SCHEDULE
7. SOLID SURFACE COUNTER TOP – TYPICAL
8. SOLID SURFACE BACKSPLASH – TYPICAL
9. PLASTIC LAMINATE CLAD CABINETS – TYPICAL
10. PLASTIC LAMINATE CLAD BACKSPLASH – TYPICAL
11. PLASTIC LAMINATE CLAD COUNTER TOP – TYPICAL
12. PLASTIC LAMINATE CLAD ¾" THICK ADJUSTABLE SHELVES – TYPICAL
13. PLASTIC LAMINATE CLAD "ADA" COMPLAINT REMOVAL FRONT PANEL AND TOE BOARD – TYPICAL
14. CLEAR TEMPERED GLASS VISIBILITY PANELS – TYPICAL ALL SCIENCE CLASSROOMS
15. EXPOSED STRUCTURE – PAINTED
16. GYPSUM BOARD CEILING FURR–DOWN
17. FIRE EXTINGUISHER CABINET, COORDINATE FINAL LOCATION WITH ARCHITECT AND MEP COMPONENTS – TYPICAL
18. OWNER FURNISHED AND INSTALLED WOOD LABORATORY CASEWORK
19. REFRIGERATOR – OWNER PROVIDED
20. HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
21. SECURITY ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
22. ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
23. HOLLOW METAL FRAME WINDOW – TYPICAL
24. ALUMINUM STOREFRONT WINDOW – TYPICAL
25. RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26. DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27. RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP–LIGHTING SYSTEM
27A. PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28. FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
29. OWNER FURNISHED AND INSTALLED STOVE
30. DOOR AS SCHEDULE
31. METAL SUPPORT BRACKET – POWDER COATED – BLACK
32. PLASTIC LAMINATE INTERMEDIATE SUPPORT LEG TO FLOOR EVERY OTHER STATION
33. ELECTRICAL OUTLET AND DATA OUTLET AT 48" A.F.F. AT TECHNOLOGY LABS– TYPICAL
34. WELDED ATHLETIC LOCKER – DOUBLE TIER WITH SLOPE TOPS AS DRESSING ROOMS
35. LOCKER ROOM BENCH – TYPE A
36. LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37. FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38. SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39. PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40. IMPACT RESISTANT WALL COVERING
41. CEILING CLOUD WITH SPECIALTY EDGE TRIM
42. SOLID–POLYMER TOILET COMPARTMENT
43. SOLID–POLYMER URINAL SCREEN
44. HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
45. DEDICATION PLAQUE BY CONTRACTOR

OWNER FURNISHED AND INSTALLED
WOOD LABORATORY CASEWORK GENERAL NOTE:

1. SHOWN FOR REFERENCE ONLY, WOOD LABORATORY CASEWORK AND EQUIPMENT TO BE PROVIDED AND INSTALLED BY OWNER.
   - BIO-MED LAB D124
   - ENGINEERING LAB D125
   - MS SCIENCE LAB D127
   - CHEMISTRY LAB E109
   - PHYSICS LAB E114
   - BIOLOGY LAB E126
2. CONTRACTOR TO PROVIDE ALL PLUMBING PIPING AND INSTALLATION OF CONTRACTOR AND OWNER ITEMS.
   -- SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 3" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
   -- SINKS KITS (SINGLE BOWL, 3.5" DRAIN BASKET, 5" GOOSENECK FAUCET WITH ADA WRISTBLADES) - OWNER PROVIDE AND CONTRACTOR INSTALLED.
3. CONTRACTOR TO PROVIDE ALL ELECTRICAL ROUGH-IN AND FINAL CONNECTION OF CONTRACTOR AND OWNER PROVIDED ITEMS.
   -- ELECTRICAL POWER OUTLETS AT WOOD LABORATORY CASEWORK STATION IN CHEMISTRY LAB E109 AND PHYSICS LAB E114 TO BE CONTRACTOR PROVIDED AND INSTALLED.
4. REFER TO OVERALL FURNITURE PLAN SHEET, INTERIOR ELEVATIONS SHEETS AND MEP SHEETS FOR ADDITIONAL INFORMATION.

GENERAL NOTES :

1. REFER TO SHEET A–109 FOR INTERIOR GENERAL NOTES.

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FOOD SERVICE DESIGN:
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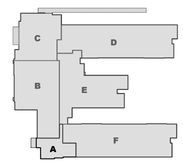
REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 6256

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

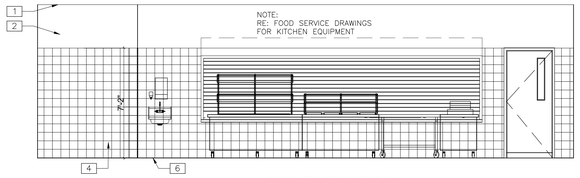
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

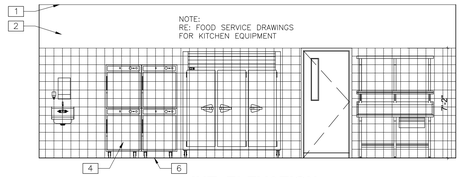
No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-113



INT. ELEVATION
SERVING KIOSK C111
15 SCALE: 1/4" = 1'-0"



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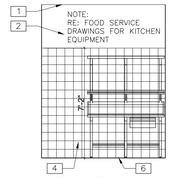
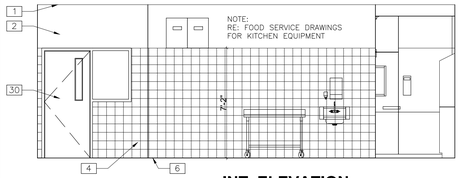
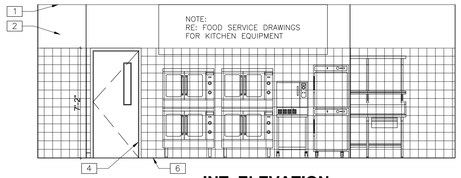
SERVING KIOSK C111
16 SCALE: 1/4" = 1'-0"



INT. ELEVATION
SERVING KIOSK C111
17 SCALE: 1/4" = 1'-0"



INT. ELEVATION
SERVING KIOSK C111
11 SCALE: 1/4" = 1'-0"



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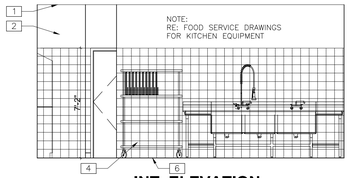
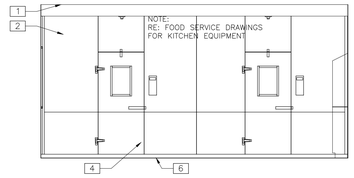
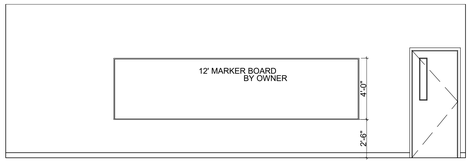
SERVING KIOSK C111
12 SCALE: 1/4" = 1'-0"



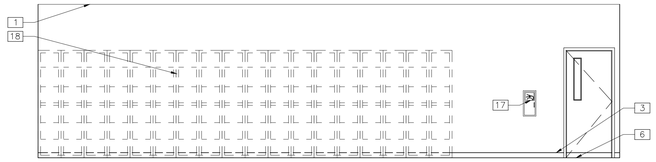
INT. ELEVATION
SERVING KIOSK C111
13 SCALE: 1/4" = 1'-0"



INT. ELEVATION
SERVING KIOSK C111
14 SCALE: 1/4" = 1'-0"



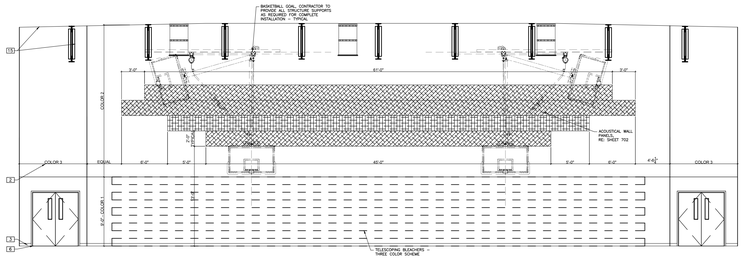
INT. ELEVATION
PHYSICS LAB E114
8 SCALE: 1/4" = 1'-0"



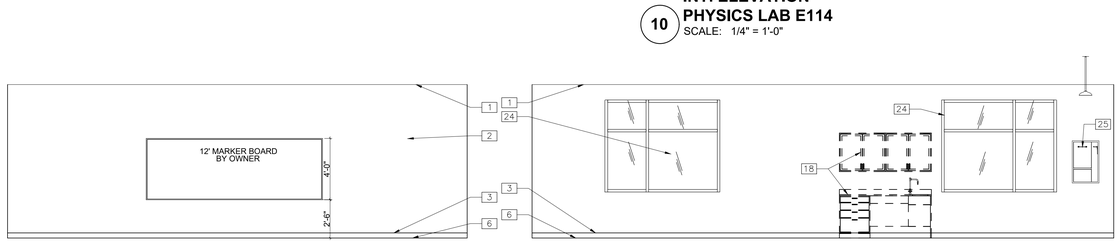
INT. ELEVATION
PHYSICS LAB E114
9 SCALE: 1/4" = 1'-0"



INT. ELEVATION
PHYSICS LAB E114
10 SCALE: 1/4" = 1'-0"

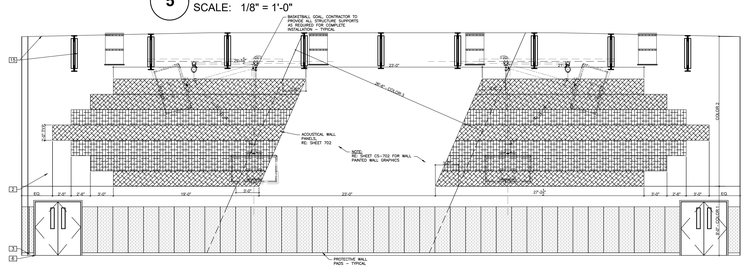


INT. ELEVATION
GYMNASIUM B110
5 SCALE: 1/8" = 1'-0"

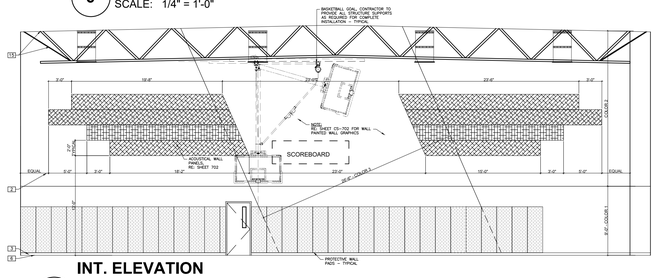


INT. ELEVATION
TYPICAL CLASSROOM
6 SCALE: 1/4" = 1'-0"

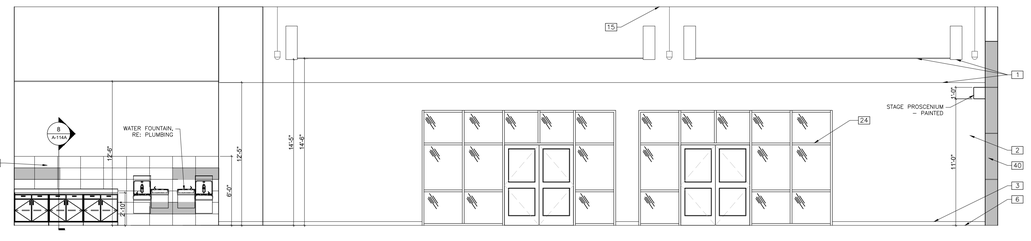
INT. ELEVATION
PHYSICS LAB E114
7 SCALE: 1/4" = 1'-0"



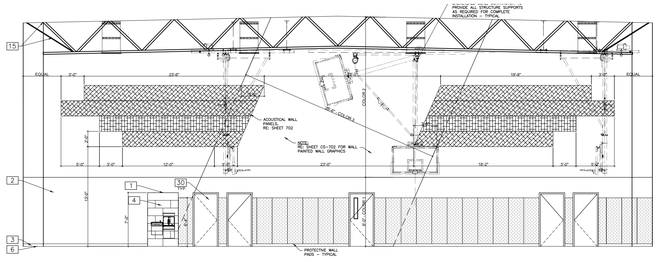
INT. ELEVATION
GYMNASIUM B110
3 SCALE: 1/8" = 1'-0"



INT. ELEVATION
GYMNASIUM B110
4 SCALE: 1/8" = 1'-0"



INT. ELEVATION
CAFETERIA C103
1 SCALE: 3/16" = 1'-0"



INT. ELEVATION
GYMNASIUM B110
2 SCALE: 1/8" = 1'-0"

KEYED NOTES : #

1 CEILING AS SCHEDULE
2 WALL FINISH AS SCHEDULE – TYPICAL
3 WALL BASE AS SCHEDULE – TYPICAL
4 WALL TILE AS SCHEDULE – TYPICAL
5 EPOXY/RESIN WALL FINISH AS SCHEDULE – TYPICAL
6 FLOOR FINISH AS SCHEDULE
7 SOLID SURFACE COUNTER TOP – TYPICAL
8 SOLID SURFACE BACKSPLASH – TYPICAL
9 PLASTIC LAMINATE CLAD CABINETS – TYPICAL
10 PLASTIC LAMINATE CLAD BACKSPLASH – TYPICAL
11 PLASTIC LAMINATE CLAD COUNTER TOP – TYPICAL
12 PLASTIC LAMINATE CLAD ¾" THICK ADJUSTABLE SHELVES – TYPICAL
13 PLASTIC LAMINATE CLAD "ADA" COMPLAINT REMOVAL FRONT PANEL AND TOE BOARD – TYPICAL
14 CLEAR TEMPERED GLASS VISIBILITY PANELS – TYPICAL ALL SCIENCE CLASSROOMS
15 EXPOSED STRUCTURE – PAINTED
16 GYPSUM BOARD CEILING FURR–DOWN
17 FIRE EXTINGUISHER CABINET, COORDINATE FINAL LOCATION WITH ARCHITECT AND MEP COMPONENTS – TYPICAL
18 OWNER FURNISHED AND INSTALLED WOOD LABORATORY CASEWORK
19 REFRIGERATOR – OWNER PROVIDED
20 HARMONY PUBLIC SCHOOL – 3 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
21 SECURITY ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
22 ALUMINUM SLIDING TRANSITION WINDOW – BOTTOM SILL TRACK TO BE RECESSED INTO COUNTERTOP
23 HOLLOW METAL FRAME WINDOW – TYPICAL
24 ALUMINUM STOREFRONT WINDOW – TYPICAL
25 RECESSED EYEWASH/SHOWER COMBINATION UNIT – RE: PLUMBING DRAWINGS – TYPICAL
26 DRESSING ROOM TOILET COMPARTMENT – TYPICAL
27 RECESSED DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES AND CONCEALED TOP–LIGHTING SYSTEM
27A PLASTIC LAMINATE ENCLOSURE FOR EXHAUST HOOD
28 FIRE READY RESIDENTIAL RANGE HOOD, WITH INTEGRATED FIRE SUPPRESSION SYSTEM, COORDINATE WITH MEP AND FIRE SUPPRESSION SYSTEM
29 OWNER FURNISHED AND INSTALLED STOVE
30 DOOR AS SCHEDULE
31 METAL SUPPORT BRACKET – POWDER COATED – BLACK
32 PLASTIC LAMINATE INTERMEDIATE SUPPORT LEG TO FLOOR EVERY OTHER STATION
33 ELECTRICAL OUTLET AND DATA OUTLET AT 48" A.F.F. AT TECHNOLOGY LABS– TYPICAL
34 WELDED ATHLETIC LOCKER – DOUBLE TIER WITH SLOPE TOPS AS DRESSING ROOMS
35 LOCKER ROOM BENCH – TYPE A
36 LOCKER ROOM ADA BENCH WITHOUT BACK – TYPE B
37 FUME HOOD PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
38 SECURITY ACCESS CONTROLS, COORDINATE WITH SECURITY DRAWINGS
39 PRIVACY CUBICLE CURTAIN AND CURTAIN TRACK
40 IMPACT RESISTANT WALL COVERING
41 CEILING CLOUD WITH SPECIALTY EDGE TRIM
42 SOLID–POLYMER TOILET COMPARTMENT
43 SOLID–POLYMER URINAL SCREEN
44 HARMONY PUBLIC SCHOOL – 5 FOOT HIGH SIGN – LED BACKLIGHT, COORDINATE ELECTRICAL WITH ELECTRICAL DRAWINGS
45 DEDICATION PLAQUE BY CONTRACTOR

GENERAL NOTES :

1. REFER TO SHEET A–109 FOR INTERIOR GENERAL NOTES.

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REGISTERED ARCHITECT RAYMOND D. GIGNAC 23255 STATE OF TEXAS

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

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SCIENCE ACADEMY HS/MS
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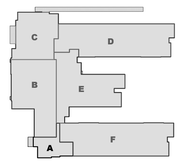

KEYPLAN

Project Number: 24.23
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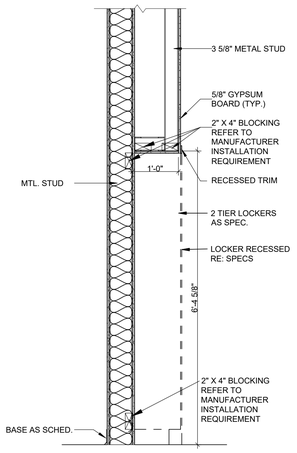
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
INTERIOR ELEVATIONS

A-114

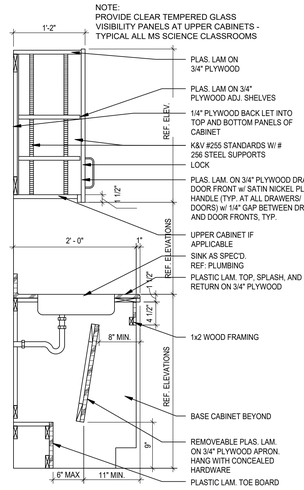


NOTE:
1. FLOOR FINISH TO BE LEVEL AS REQUIRED FOR LOCKER BASE INSTALLATION
2. CONTRACTOR TO COORDINATE LOCKER ALCOVES WITH MANUFACTURER CONSTRUCTION SUBMITTALS
3. CONTRACTOR TO INSTALL GENERAL WOOD BLOCKING AS REQUIRED TO ANCHOR LOCKERS TO TOP AND BOTTOM AT WALLS AND CEILING FUR-DOWNS.
4. CONTRACTOR TO ENSURE THAT CORRIDOR LOCKER INSTALLATION IS COORDINATE WITH CORRIDOR TILE WAINSCOT AND REQUIRED CLEARANCES BETWEEN THE TILE FINISH AND LOCKER FINISH
5. CONTRACTOR TO PROVIDE RECESSED TRIM AS REQUIRED FOR A CLEAN TIGHT INSTALLATION AT LOCKER ALCOVES AND WALL FINISH.

1 LOCKER SECTIONS
SCALE: 3/4" = 1'-0"

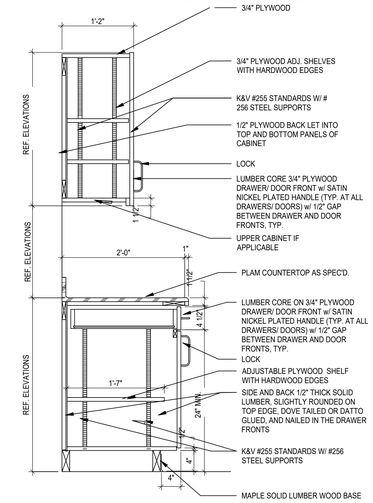
NOTE: REFER TO SOLID SURFACE GENERAL NOTES FOR LOCATIONS OF SOLID SURFACE COUNTER TOPS.

NOTE:
PROVIDE CLEAR TEMPERED GLASS VISIBILITY PANELS AT UPPER CABINETS - TYPICAL ALL MS SCIENCE CLASSROOMS



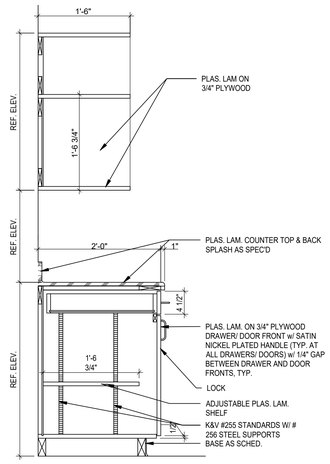
2 CASEWORK SECTION
SCALE: 1" = 1'-0"

NOTE:
PROVIDE CLEAR TEMPERED GLASS VISIBILITY PANELS AT UPPER CABINETS - TYPICAL ALL MS SCIENCE CLASSROOMS

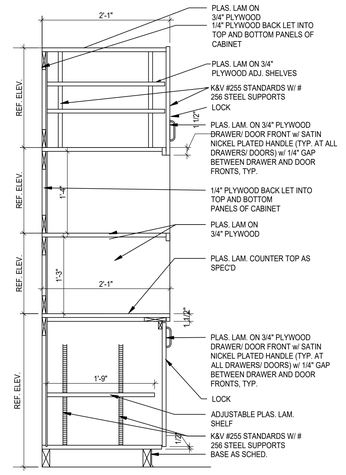


3 CASEWORK SECTION
SCALE: 1" = 1'-0"

NOTE: REFER TO SOLID SURFACE GENERAL NOTES FOR LOCATIONS OF SOLID SURFACE COUNTER TOPS.



4 CABINET SECTION
SCALE: 1" = 1'-0"



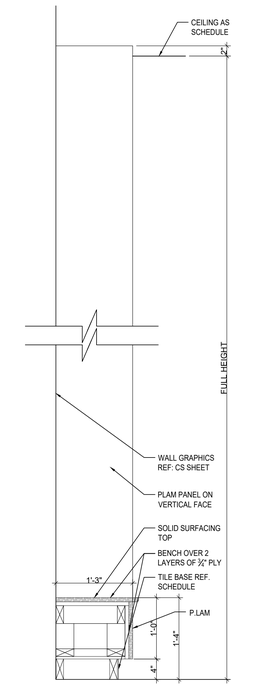
5 CABINET SECTION
SCALE: 1" = 1'-0"

SOLID SURFACING - GENERAL NOTE:

CONTRACTOR TO PROVIDE SOLID SURFACING COUNTERTOP WITH BACKSPLASH AT THE FOLLOWING LOCATIONS:
- GROUP RESTROOMS
- FRONT ADMINISTRATION A113
- NURSE A109
- FRONT OFFICE A113 TRANSITION SLIDING WINDOWS
- TEACHER LOUNGES F126 AND D102
- CAFETERIA C103

ADDITIONAL LOCATIONS WITH SOLID SURFACING
- SOLID SURFACING AT ALL WINDOW SILLS
- INTERIOR CORRIDOR BENCHES (BENCH SEAT ONLY)

NOTE:
CONTRACTOR TO COORDINATE WITH SHEET CS-701 AND ARCHITECT FOR COLOR SELECTIONS



11 BENCH DETAIL
SCALE: 1" = 1'-0"

7 CASEWORK STATION
SCALE: 1" = 1'-0"

8 CASEWORK SECTION
SCALE: 1" = 1'-0"

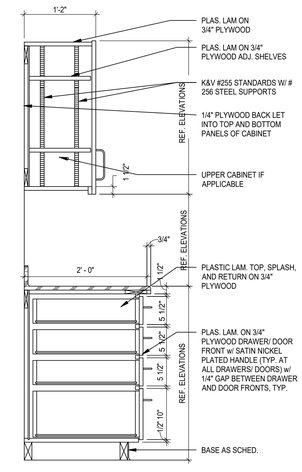
NOTE:
PROVIDE SOLID SURFACING COUNTER TOP APRON AT COUNTER TOP EDGES.

SOLID SURFACING COUNTERTOP WITH BACKSPLASH AT GROUP RESTROOMS

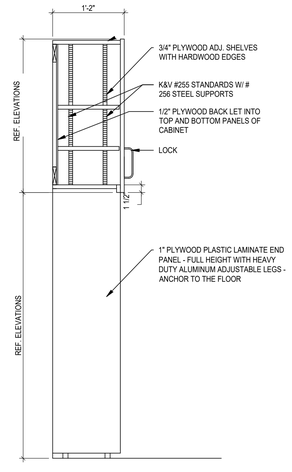
9 CASEWORK SECTION
SCALE: 1" = 1'-0"

10 NOT USED
SCALE: 1" = 1'-0"

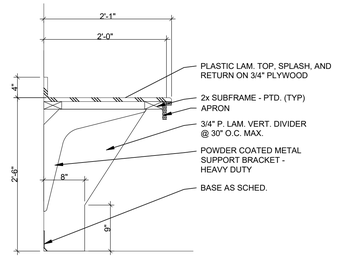
16 BENCH DETAIL
SCALE: 1" = 1'-0"



12 CASEWORK SECTION
SCALE: 1" = 1'-0"

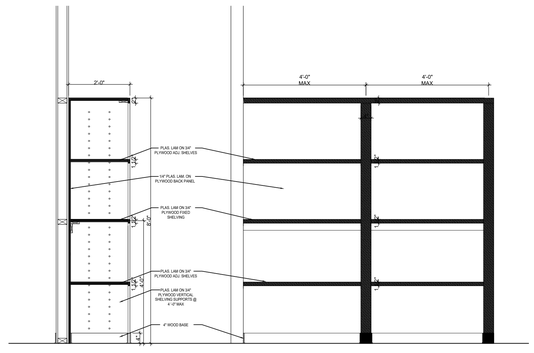


13 NOT USED
SCALE: 1 1/2" = 1'-0"



14 CASEWORK SECTION
SCALE: 1" = 1'-0"

15 NOT USED
SCALE: 1" = 1'-0"



17 CUSTOM STORAGE PREP ROOMS
SCALE: 1/2" = 1'-0"

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FOOD SERVICE DESIGN:
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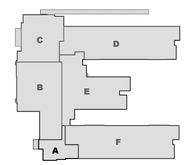
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 8255 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
MILLWORK AND MISCELANEOUS DETAILS

A-114A

AREA "A" — ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CEILING HEIGHT	REMARKS
A100	SECURED LOBBY	STONE	STONE	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	ACP-2/PAINTED EXPOSED STRUCTURE	RE: RCP	NOTES 4, 5, 6,
A101	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A102	CLERK	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A103	ASSIST. PRINCIPAL	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A104	IDF	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A105	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A106	I.T. OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A107	DEAN	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A108	DETENTION	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A109	NURSE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A110	PRINCIPAL	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A111	ASSIS. PRINCIPAL	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A112	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A113	FRONT OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
A114	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD./PAINTED EXPOSURE STRUCTURE	RE: RCP	NOTES 1, 4, 6, 7, 9
A115	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2/PAINTED GYP. BD.	11'-0"	NOTES 1, 4, 7, 9

AREA "B" — ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CEILING HEIGHT	REMARKS
B100	MAKERS SPACE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE/PAINTED GYP. BD.	RE: RCP	NOTE 15
B101	MAKERS SHOP	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE	VARIES	RE: RCP
B102	PRINT RM.	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE	VARIES	RE: RCP
B103	MS SCIENCE CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
B104	MEETING	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
B105	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
B106	BOYS DRESSING	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
B107	COACH OFFICE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
B108	GIRLS DRESSING	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
B109	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
B110	GYM	GYM FLOORING	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE	VARIES	NOTES 2, 3, 6, 8, 10, 15
B111	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/ PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/ PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/ PAINTED GYP. BD.	APC-2/PAINTED GY. BD.	11'-0"	NOTES 1, 4, 6, 7, 9

AREA "C" — ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CEILING HEIGHT	REMARKS
C100	GIRLS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERAMIC TILE	EPOXY/RESIN/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
C101	BOYS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/RESIN/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
C102	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2	11'-0"	NOTES 1, 7, 9
C103	CAFETERIA	VCT	RUBBER	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2/PAINTED GY. BD./PAINTED EXPOSED STRUCTURE	RE: RCP	NOTES 1, 4, 6,
C104	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	ACOUSTICAL CEILING TILE	10'-0"	--
C105	(STAGE)	WOOD	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE	VARIES	NOTES 8 (SIM), 10 (SIM), 14
C106	RAMP	WOOD	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE	VARIES	NOTES 10 (SIM)
C107	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	APC-2	11'-0"	NOTES 1, 4, 6, 7, 9
C108	ROOM	SEALED CONCRETE	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	EXPOSED TO STRUCTURE	--	--
C109	JANITOR	QUARRY TILE	QUARRY TILE COVE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-3	10'-0"	NOTE 7, 12,
C110	WALK-IN FREEZER/COOLER	QUARRY TILE	QUARRY TILE COVE	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-3	10'-0"	NOTES 12, 13
C111	SERVING KIOSK	QUARRY TILE	QUARRY TILE COVE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-3	10'-0"	NOTES 7, 11, 12, 13
C112	OFFICE	QUARRY TILE	QUARRY TILE COVE	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-3	10'-0"	NOTE 7
C113	DRY STORAGE	QUARRY TILE	QUARRY TILE COVE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-3	10'-0"	NOTES 7, 11
C114	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-3	--	RE: RCP

AREA "D" — ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CEILING HEIGHT	REMARKS
D100	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D101	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D102	TEACHERS LOUNGE	VCT/MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
D103	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D104	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D105	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D106	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D107	GIRLS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/RESIN/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/ PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
D108	BOYS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/ RESIN/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
D109	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D110	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D111	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D112	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D113	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D114	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D115	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D116	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D117	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP., BD.	10'-0"	--
D118	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
D119	JANITOR	QUARRY TILE	QUARRY TILE COVE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-3	10'-0"	--
D120	ELECTRICAL	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	EXPOSED TO STRUCTURE	--	--
D121	IDF	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
D122	SMALL CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D123	SMALL CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D124	BIO-MED LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D124A	PREP/STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
D125	ENGINEERING LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D126	ESL	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D127	MS SCIENCE LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
D128	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2/PAINTED GY. BD.	11'-0"	NOTES 1, 4, 6, 7, 9
D129	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2	11'-0"	NOTES 1, 4, 6, 7, 9

INTERIOR FINISH MATERIAL TABLE PER CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE

Spec Section	Section Description	Application	Code Section Reference	Code Classification	Classification Specified	Spec Reference	Remarks
09 29 00	Gypsum Board	Wall & Ceiling	803 Wall & Ceiling Finishes	N/A- Non-Combustible Materials	---	---	---
093013	Ceramic Tiling	Wall	803 Wall & Ceiling Finishes	N/A- Non-Combustible Material	---	---	---
093013.13	Porcelain Ceramic Tiling	Floor	8041 nterior Floor Finish	N/A- Non-Combustible Material	---	---	---
093013.13	Porcelain Ceramic Tiling	Wall	803 Wall & Ceiling Finishes	N/A- Non-Combustible Material	---	---	---
09 30 33	Stone Tiling	Floor	8041 nterior Floor Finish	N/A- Non-Combustible Material	---	---	---
09 5113	Acoustical Panel Ceilings	Ceiling	803 Wall & Ceiling Finishes	Min. Class B, ASTM E84 or UL723	Class A, ASTM E84	Part 2.1.A	---
09 6400	Wood Flooring	Floor	805 Combustibles Materials	Permitted with Fire-Rated Subfloo	---	---	Fire-rated sub-flooring detailed in drawings.
09 6513.13	Resilient Base	Floor-Wall Base	806 Decorative Materials & Trim	Class I or 11, ASTM E648 or NFPA 253	Class 11, NFPA 253	Part 1.6.B	Min. Class II applies to Groups A, B & E.
09 6519.19	Vinyl Composition Tile Flooring (VC	Floor	8041 nterior Floor Finish	Class I or 11, ASTM E648 or NFPA 253	Class I, NFPA 253	Part 2.1.A	---
09 6519.23	Solid Vinyl Tile Flooring (LVT)	Floor	8041 nterior Floor Finish	Class I or 11, ASTM E648 or NFPA 253	Class I, NFPA 253	Part 2.1.A	---
09 67 66	Fluid-Applied Athletic Flooring	Floor	8041 nterior Floor Finish	Class I or 11, ASTM E648 or NFPA 253	Class I, NFPA 253	Part 2.1.A	---
09 6813	Carpet Tile	Floor	8041 nterior Floor Finish	Class I or 11, ASTM E648 or NFPA 253	Class 11, NFPA 253	Part 1.6.B	Min. Class II applies to Groups A, B & E.
09 7213.13	Vinyl Wall Graphics	Wall	803 Wall & Ceiling Finishes	Min. Class B, ASTM E84 or UL723	Class A, ASTM E84	Part 2.1.A	---
09 84 33	Sound Absorbing Wall Units	Wall	803 Wall & Ceiling Finishes	Min. Class B, ASTM E84 or UL723	Class A, ASTM E84	Part 2.1.A	---
10 2113	Toilet Compartments	Wall	803 Wall & Ceiling Finishes	Min. Class B, ASTM E84 or UL723	Class B, ASTM E84	Part 2.1.A	---
10 2123	Cubicle Curtains & Track	Curtain	806 Decorative Materials & Trim	NFPA 701	NFPA 701	Part 1.4.C	---
10 26 23.13	Impact Resistant Wall Protection	Wall	803 Wall & Ceiling Finishes	Min. Class B, ASTM E84 or UL723	Class A, ASTM E84	Part 2.1.A	---
116143	Stage Curtains	Curtain	806 Decorative Materials & Trim	NFPA 701	NFPA 701	Part 2.1.C	---

ROOM FINISHED SCHEDULE NOTES:

1. GLAZED PORCELAIN WAINSCOT, REFER TO WALL FINISH PLANS.
2. GYMNASIUM ACOUSTICAL WALL PANELS LAYOUT PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
3. GYMNASIUM PROTECTION WALL PADS PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
4. DITIGAL VINYL WALL GRAPHICS PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
5. PLASTIC LAMINATE WALL PROTECTION AT STAGE WALL SURROUND AND "SECURE LOBBY" INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
6. REFER TO REFLECTED CEILING PLANS FOR EXPOSED STRUCTURAL LOCATIONS.
7. IMPACT RESISTANT GYPSUM BOARD ABOVE TILE WAINSCOT.
8. IMPACT RESISTANT GYPSUM BOARD UP TO 12'-0" A.F.F.
9. EPOXY WALL PAINT ABOVE TILE WAINSCOT AT ALL CORRIDORS.
10. EPOXY WALL PAINT AT GYM WALLS.
11. 7'-2" A.F.F TILE WAINSCOT WITH EPOXY WALL PAINT ABOVE TILE.
12. RE: KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION ON THE WALK-IN COOLER AND FREEZER.
13. PROVIDE CONCRETE TOPPING FOR QUARRY TILE FLOOR FINISH KITCHEN DRAWINGS.
14. STAGE RAISED WOOD FLOORING PLATFORM, RE: DETAIL 6/A-312 SIM.
15. PAINTED WALL GRAPHICS PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.

ROOM FINISHED GENERAL NOTES:

1. ALL FINISHED MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS AND SHEET CS-700 – C703 FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO SHEET CS-700 FOR FLOOR FINISH PLAN.
4. REFER TO SHEET CS-701 FOR WALL PAINT PLAN.
5. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENTS, ETC. TO MATCH ADJACENT SURFACES.
6. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
7. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
8. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
9. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR. VERIFY FINAL COLOR WITH ARCHITECT.
10. PROVIDE SCHLUTER TRIM AT TRANSITIONS FROM WALL TILE TO GYPSUM BOARD WALL, UNLESS NOTED OTHERWISE.
11. PROVIDE SCHLUTER TRIM AT TRANSITIONS FROM EPOXY/RESIN WALL FINISH TO GYPSUM BOARD WALL, UNLESS NOTED OTHERWISE.
12. PROVIDE SCHLUTER TRIM AT TRANSITION FROM VCT FLOORING TO WALL TILE, UNLESS NOTED OTHERWISE.

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EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
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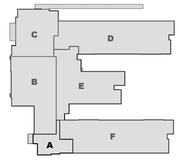

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:

ROOM FINISH SCHEDULE

A-115

ROOM FINISH SCHEDULE

AREA "E"

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CEILING HEIGHT	REMARKS
E100	STAFF RRM	PORECLAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
E101	STAFF RRM	PORECLAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
E102	SPED	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E102A	STORAGE	VCT	RUBBER BASE	PAINTED GYP. BOARD	PAINTED GYP. BOARD	PAINTED GYP. BOARD	PAINTED GYP. BOARD	APC-1	10'-0"	--
E103	ELECTRICAL	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	EXPOSED STRUCTURE	10'-0"	--
E104	LIFE SKILLS LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E104A	RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
E104B	STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E105	ART LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E106	MS SCIENCE CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E107	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	CERAMIC TILE WAINSCOT/PAINTED GYP. BD	APC-2/PAINTED GY. BD.	11'-0"	--
E108	TECHNOLOGY	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E109	CHEMISTRY LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E109A	PREP/ STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E110	ELECTRICAL	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	EXPOSED TO STRUCTURE	--	--
E110A	SERVER	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E111	GIRLS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERAMIC TILES	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/RESIN/PAINTED GYP. BD	PAINTED GYP. BD.	10'-0"	--
E112	BOYS RRM.	EPOXY/RESIN	EPOXY/ RESIN/CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/RESIN/PAINTED GYP. BD	PAINTED GYP. BD.	10'-0"	--
E113	CT	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E114	PHYSICS LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E114A	PREP/ STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E115	OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E116	OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E117	OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E118	OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E119	OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E120	OFFICE	MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E121	ERRS RM.	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E122	COORDINATOR	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E122A	TEST STORE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E123	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
E124	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
E125	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
E126	BIOLOGY LAB	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E126A	PREP/STORAGE	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
E127	TECHNOLOGY	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E128	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2/PAINTED GYP. BD.	11'-0"	NOTES 1, 4, 6, 7, 9
E129	MS SCIENCE CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E130	SMALL CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
E131	OUTDOOR STORAGE	SEALED CONCRETE	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED EXPOSED STRUCTURE	10'-0"	--

ROOM FINISH SCHEDULE

AREA "F"

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CEILING HEIGHT	REMARKS
?	?	?	?	?	?	?	?	?	?	?
F100	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F102	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F103	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F104	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F105	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F106	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F107	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F108	ELECTRICAL	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	EXPOSED TO STRUCTURE	--	RE: RCP
F109	JANITOR	QUARRY TILE	QUARRY TILE COVE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-3	10'-0"	--
F110	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
F111	STAFF RRM	PORCELAIN TILE	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	PAINTED GYP. BD.	10'-0"	--
F112	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F113	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F114	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F115	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F116	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F117	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F118	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F119	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F120	GIRLS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERAMIC TILES	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/RESIN/CERAMIC TILES	PAINTED GYP. BD.	10'-0"	--
F121	BOYS RRM.	EPOXY/RESIN	EPOXY/RESIN/CERAMIC TILES	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	EPOXY/RESIN/PAINTED GYP. BD	PAINTED GYP. BD.	10'-0"	--
F122	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F123	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F124	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F125	CLASSROOM	VCT	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-1	10'-0"	--
F126	TEACHERS LOUNGE	VCT/MODULAR CARPET	RUBBER	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	PAINTED GYP. BD.	APC-2	10'-0"	--
F127	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2/PAINTED GYP. BD.	11'-0"	NOTES 1, 4, 6, 7, 9
F128	CORRIDOR	VCT	CERAMIC TILE	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	CERAMIC TILE WAINSCOT/PAINTED GYP. BD.	APC-2	11'-0"	NOTES 1, 4, 6, 7, 9

ROOM FINISHED GENERAL NOTES:

1. ALL FINISHED MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS AND SHEET CS-700 - C703 FOR SPECIFIC MATERIAL LOCATIONS.
3. REFER TO SHEET CS-700 FOR FLOOR FINISH PLAN.
4. REFER TO SHEET CS-701 FOR WALL PAINT PLAN.
5. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENTS, ETC. TO MATCH ADJACENT SURFACES.
6. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
7. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
8. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
9. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR. VERIFY FINAL COLOR WITH ARCHITECT.
10. PROVIDE SCHLUTER TRIM AT TRANSITIONS FROM WALL TILE TO GYPSUM BOARD WALL, UNLESS NOTED OTHERWISE.
11. PROVIDE SCHLUTER TRIM AT TRANSITIONS FROM EPOXY/RESIN WALL FINISH TO GYPSUM BOARD WALL, UNLESS NOTED OTHERWISE.
12. PROVIDE SCHLUTER TRIM AT TRANSITION FROM VCT FLOORING TO WALL TILE, UNLESS NOTED OTHERWISE.

ROOM FINISHED SCHEDULE NOTES:

1. GLAZED PORCELAIN WAINSCOT, REFER TO WALL FINISH PLANS.
2. GYMNASIUM ACOUSTICAL WALL PANELS LAYOUT PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
3. GYMNASIUM PROTECTION WALL PADS PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
4. DITIGAL VINYL WALL GRAPHICS PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
5. PLASTIC LAMINATE WALL PROTECTION AT STAGE WALL SURROUND AND "SECURE LOBBY" INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.
6. REFER TO REFLECTED CEILING PLANS FOR EXPOSED STRUCTURAL LOCATIONS.
7. IMPACT RESISTANT GYPSUM BOARD ABOVE TILE WAINSCOT.
8. IMPACT RESISTANT GYPSUM BOARD UP TO 12'-0" A.F.F.
9. EPOXY WALL PAINT ABOVE TILE WAINSCOT AT ALL CORRIDORS.
10. EPOXY WALL PAINT AT GYM WALLS.
11. 7'-2" A.F.F TILE WAINSCOT WITH EPOXY WALL PAINT ABOVE TILE.
12. RE: KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION ON THE WALK-IN COOLER AND FREEZER.
13. PROVIDE CONCRETE TOPPING FOR QUARRY TILE FLOOR FINISH KITCHEN DRAWINGS.
14. STAGE RAISED WOOD FLOORING PLATFORM, RE: DETAIL 6/A-312 SIM.
15. PAINTED WALL GRAPHICS PER INTERIOR ELEVATIONS AND "CS SERIES" SHEETS.

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
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T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

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COBB FENDLEY & ASSOCIATES
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HOUSTON, TEXAS 77041
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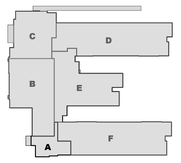
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMUNDO G. GIGNAC STATE OF TEXAS 6346

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
ROOM FINISH SCHEDULE

A-115A



1 **OVERALL FURNITURE PLAN**
SCALE: 1/16" = 1'-0"

FURNITURE / ACCESORIES GENERAL NOTES:

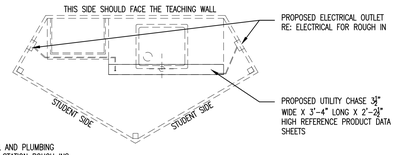
1. FURNITURE SHOWN IN CLASSROOMS IS FOR REFERENCE ONLY, NOT IN CONTRACT.
2. FURNITURE SHOWN IN MAKER SPACE, OFFICES, CLASSROOMS, SCIENCE CLASSROOMS AND LABS IS FOR REFERENCE. CONTRACTOR TO COORDINATE WHAT IS CONTRACTOR PROVIDED AND INSTALLED AND WHAT IS OWNER PROVIDED.
3. CONTRACTOR TO PROVIDE MILLWORK AND PLUMBING MEP ITEMS AS PER FLOOR PLANS AND MEP DRAWINGS.
4. PROVIDE WOOD BLOCKING AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT. COORDINATE WITH OWNER ALL FINAL LOCATIONS AND HEIGHT REQUIREMENTS.
5. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON LOCATIONS OF MARKER BOARDS, LCD MONITORS, FLAT PANEL DISPLAYS, AND PROJECTION SCREENS. PROVIDE WOOD BLOCKING SUPPORT AS REQUIRED, COORDINATE WITH ARCHITECT.

FURNITURE/ACCESSORIES LEGEND (CONTRACTOR PROVIDED AND INSTALLED)

MARK	ITEM	COMMENTS
1	CUSTOM MILLWORK – BASE AND UPPER CABINETS COMPLETE	REFER TO INTERIOR ELEVATIONS FOR DETAILS
9	EYEWASH AND SHOWER	REFER TO MEP AND SPECIFICATIONS
10	CORD REELS	PULL DOWN OUTLETS REFER TO MEP AND SPECIFICATIONS
17	2 COMPARTMENT SINK	REFER TO MEP AND SPECIFICATIONS COORDINATE PLUMBING AND ELECTRICAL
19	TECHNOLOGY ROOM CUSTOM MILLWORK	32 STATIONS, 2 TO BE ADA COMPLIANT, REFER TO MILLWORK DETAILS COORDINATE WITH MEP AND LOW VOLTAGE
24	GYM SCORE BOARD	REFER TO SPECIFICATIONS. COORDINATE ELECTRICAL AND LOW VOLTAGE
35	FIRE EXTINGUISHER AND CABINET	REFER TO CODE SHEET FOR LOCATION AND NUMBERS
39	CUSTOM MILLWORK – BENCH	REFER TO MILLWORK DETAIL DRAWINGS
40	CUSTOM MILLWORK –SHELVES	PREP/ STORE ROOMS IN LABS

FURNITURE/ACCESSORIES LEGEND (PROVIDED AND INSTALLED BY OWNER) VICRO / HERTZ

MARK	ITEM	COMMENTS
2	ADA/ ADJUSTABLE LAB TABLE	
3	STUDENT LAB DESK	
4	ABOVE COUNTER TOP CABINETS	
5	BIO– MEDICAL LAB – WALL SERVICE BENCH	
6	BIO SKELETON CABINETS	
7	STORAGE CABINETS	
8	TEACHERS LAB DESK	
11	STUDENTS DESKS (TYP)	
12	TEACHERS CLASSROOM DESK	
13	TEACHERS WORK TABLE 6'–0"	MAKERS SPACE
13A	WORK TABLE 6'–0"	MAKERS SPACE
14	3D PRINTER STORAGE SHELVES	MAKERS SPACE
15	TOOL STORAGE/ TABLE TOP	MAKERS SPACE
16	TEACHERS TABLE STORAGE	MAKERS SPACE
18	LASER CUTTER	PRINTER ROOM
20	ADA DESK WITH SINK	COORDINATE WITH MEP DRAWINGS
21	ENGINEERING LAB BASE CABINETS W/4 DRAWERS	
22	BIOLOGY & CHEMISTRY LAB WORK STATIONS W/ HOT AND COLD WATER AND POWER	COORDINATE WITH MEP DRAWINGS
23	CHEMISTRY LAB FUME HOOD	COORDINATE WITH MEP DRAWINGS
25	MAKERS SPACE DESKS 62" X24"	
26	CLASSROOM STORAGE	
27	12" LONG MARKER BOARDS	
27A	16" LONG MARKER BOARDS	IN ALL LABS
28	DRILL/ PRESS TABLE 62" X 24"	MAKERS SPACE
29	CARVE TABLE 72" X 24"	MAKERS SPACE
30	STACKABLE ACID CABINETS	CHEMISTRY / BIO MED/ BIOLOGY LAB
31	STORAGE SHELVING	CHEMISTRY/ BIO MED/ BIOLOGY LAB
32	BROKEN GLASS BIN	
33	FIRE BLANKET	WALL MOUNT
34	FIRE CONTAINMENT WASTE BASKET	
36	GOGGLE STERILIZER	WALL MOUNTED
37	FIRST AID/ SPILL CONTROL CENTER	
38	STACKABLE CORROSIVE CABINET	



NOTE:
1. RE: ELECTRICAL AND PLUMBING DRAWINGS FOR STATION ROUGH INS
2. RE: FLOOR PLAN FOR LOCATION DIMENSIONS

2 **ENLARGED PLAN VIEW OF STUDENT STATION AT BIOLOGY AND CHEMISTRY LAB**
SCALE: 1/2" = 1'-0"

FURNITURE PLAN FOR REFERENCE ONLY

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
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HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
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San Antonio, Texas 78216
Tel : 210-546-0200
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Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
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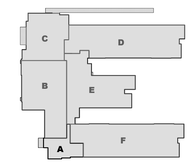
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
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Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

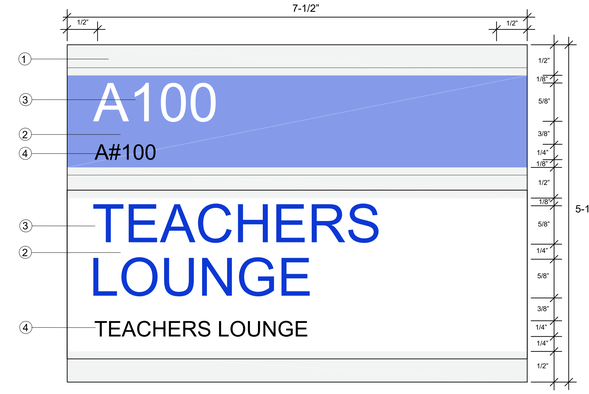
Sheet Title:
OVERALL FURNITURE PLAN

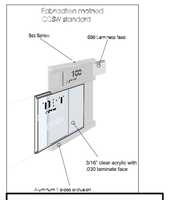
A-116

AlumiSet Carrier System
Item 1 - Type A - Permanent Interior Room Identification
AL-CA-GP2-LAM-5.5-7.5-TS
2010 ADA-SAD

Color Scheme is conceptual

Notes:
1. AlumiSet 1 piece extrusion frame
2. .030 Laminate on 3/16" clear acrylic insert
3. 1/32" raised ADA text welded to core
4. 1/32" raised Grade 2 Braille





AlumiSet Extrusion - #7524 Finish - Clear Satin Anodized

Top Laminate Color - Wilsonart D417-60 Lapis Blue

Top Text Color - VisiTouch ADA 151 Coronation White

Bottom Laminate Color - Wilsonart 1570-60 White

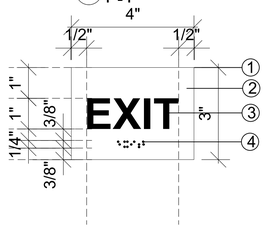
Bottom Text Color - Academy Blue

Braille - Clear Acrylic

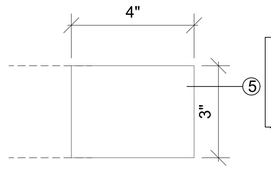
Font - Helvetica Reg (Swiss721)

Mounting - 3M VHB foam tape and silicone

4 INTERIOR SIGN TYPE A
1" = 1"

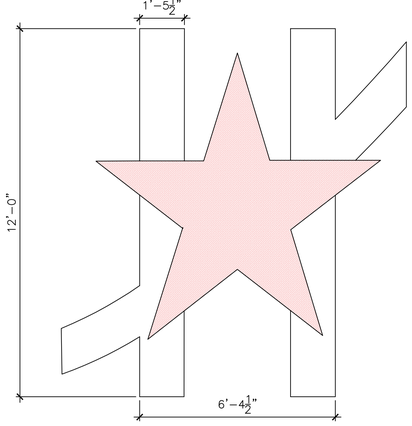


NOTES:
1. SQUARE CORNERS
2. SIGN CONSTRUCTION IS $\frac{1}{8}$" ACRYLIC CORE WITH LAMINATE FACE
3. $\frac{1}{32}$" RAISED TEXT CHEMICALLY WELDED THROUGH LAMINATE FACE TO ACRYLIC CORE.
4. $\frac{1}{32}$" RAISED GRADE 2 BRAILLE TRANSLATION
5. SQUARE CORNER BACKER PLATE IS 0.030" LAMINATE TO MATCH FACE SIGN. TO BE PROVIDED AT LOCATIONS WHERE SIGNS ARE INSTALLED AT GLAZING.
6. PROVIDE AND INSTALL AT LOCATION BUILDING EXIT DOORS.



NOTES:
1. ACCOUNT FOR BACKER PLATES FOR INDOOR SIGNAGE .
2. BACKER PLATES TO MATCH THE SIGNAGE IN SIZE AND FINISH

4 SIGN TYPE-D (EXIT SIGN)
3" = 1'-0"

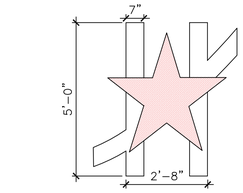


HARMONY RED (PRIMARY)
HEX: #ED1C27
CMYK: C0 M100 Y100 K0
RGB: R 237 G 28 D 39
PAINT COLOR: SW 6868 "REAL RED"

HARMONY WHITE
PAINT COLOR: SW SW7006 "EXTRA WHITE"

MATERIAL : FABRICATED ALUMINUM
FINISH: PAINTED
MOUNTING: MIN. 1" PROJECTED MOUNTING
LIGHTING : LED LIGHTING
BACKING: CLOSED POLYACRYLIC
PACKING (OPTIONAL)
DEPTH: MIN. OF 3"

4 BRAND LOGO SIGN 12'-0"- EXTERIOR
1/2" = 1'-0" TYPE 1

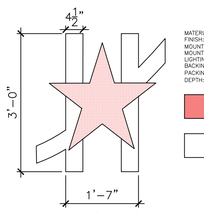


HARMONY RED (PRIMARY)
HEX: #ED1C27
CMYK: C0 M100 Y100 K0
RGB: R 237 G 28 D 39
PAINT COLOR: SW 6868 "REAL RED"

HARMONY WHITE
PAINT COLOR: SW SW7006 "EXTRA WHITE"

MATERIAL : FABRICATED ALUMINUM
FINISH: PAINTED
MOUNTING: MIN. 1" PROJECTED MOUNTING
LIGHTING : LED LIGHTING
BACKING: CLOSED POLYACRYLIC
PACKING (OPTIONAL)
DEPTH: MIN. OF 3"

4 BRAND LOGO SIGN - 5'-0" - INTERIOR
1/2" = 1'-0" TYPE 2



MATERIAL : FABRICATED ALUMINUM
FINISH: PAINTED
MOUNTING: MIN. 1" PROJECTED MOUNTING
LIGHTING : LED LIGHTING
BACKING: CLOSED POLYACRYLIC
PACKING (OPTIONAL)
DEPTH: MIN. OF 3"

HARMONY RED (PRIMARY)
HEX: #ED1C27
CMYK: C0 M100 Y100 K0
RGB: R 237 G 28 D 39
PAINT COLOR: SW 6868 "REAL RED"

HARMONY WHITE
PAINT COLOR: SW SW7006 "EXTRA WHITE"

4 BRAND LOGO SIGN - 3'-0" - INTERIOR
3/4" = 1'-0" TYPE 3

22000 SPRINGWOOD VILLAGE PKWY.

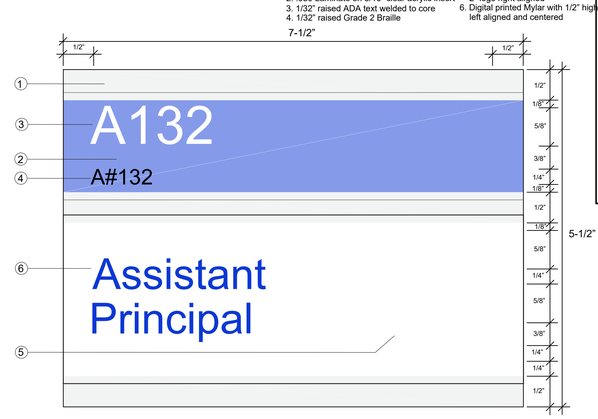
NOTES:
1. TEXT TO BE 8" TALL
2. CONTRACTOR TO VERIFY TEXT HEIGHT TO MEET FIRE MARSHAL REQUIREMENT PER JURISDICTION

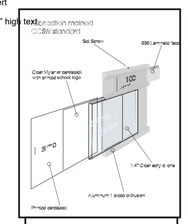
6 ADDRESS ON BUILDING
1" = 1'-0"

AlumiSet Carrier System
Item 2 - Type B - Office/Classroom Identification
AL-CM-GP2-GP6-LAM-5.5-7.5-TS
2010 ADA-SAD

Color Scheme is conceptual

Notes:
1. AlumiSet 1 piece extrusion frame
2. .030 Laminate on 3/16" clear acrylic insert
3. 1/32" raised ADA text welded to core
4. 1/32" raised Grade 2 Braille
5. Digital printed cardstock insert 2" logo right aligned
6. Digital printed Mylar with 1/2" high text left aligned and centered





AlumiSet Extrusion - #7524 Finish - Clear Satin Anodized

Laminate Background Color - Wilsonart D417-60 Lapis Blue

Text Color - VisiTouch ADA 151 Coronation White

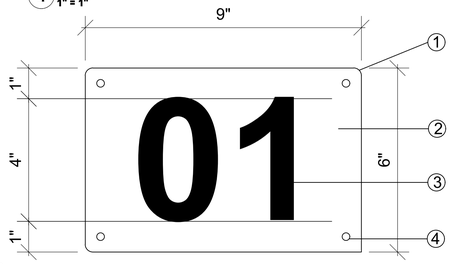
Braille - Clear Acrylic

Font - Helvetica Reg (Swiss721)

Inserts - White Cardstock with digital printed logo and clear Mylar film with printed text black ink

Mounting - 3M VHB foam tape and silicone

4 INTERIOR SIGN TYPE B
1" = 1"



NOTES:
1. $\frac{1}{4}$" RADIUS
2. 0.04 RUSTPROOF REFLECTIVE ALUMINUM SURFACE-WHITE COATED (BOTH SIDES)
3. 4" BLACK LETTERS - EXTERIOR GRADE CENTER
4. ANCHOR AND SEALANT.
5. PROVIDE AND INSTALL IDENTICATION SIGN AT EACH EXTERIOR DOOR.

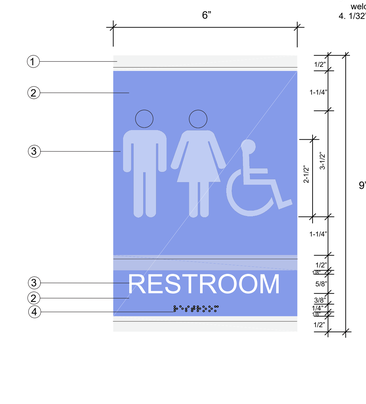
COORDINATE FINAL LOCATION WITH ARCHITECT

6 SIGN TYPE E DOOR IDENTIFICATION SIGN (EXTERIOR)
6" = 1'-0"

AlumiSet Carrier System
Item 3 - Type C - Restroom Identification
AL-RR-GP2-LAM-09-06-TS
2010 ADA-SAD

Color Scheme is conceptual

Notes:
1. AlumiSet 1 piece extrusion frame
2. .030 Laminate on 3/16" clear acrylic insert
3. 1/32" raised ADA text/symbol chemically welded to core
4. 1/32" raised Grade 2 Braille



AlumiSet Extrusion - #7524 Finish - Clear Satin Anodized

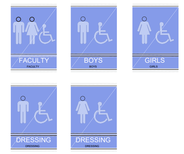
Laminate Background Color - Wilsonart D417-60 Lapis Blue

Text Color - VisiTouch ADA 151 Coronation White

Braille - Clear Acrylic

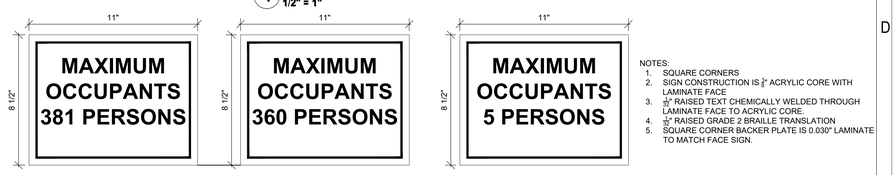
Font - Helvetica Reg (Swiss721)

Mounting - 3M VHB foam tape and silicone



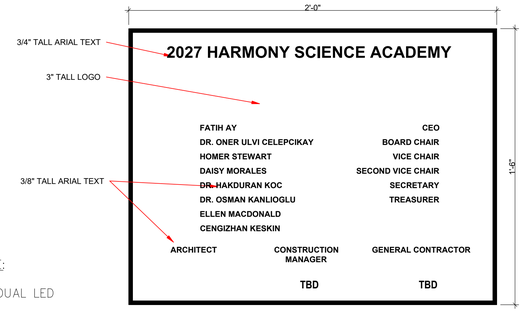
Elevation
Scale: 1/8" = 1"

4 INTERIOR SIGN TYPE C
1/2" = 1"



NOTES:
1. SQUARE CORNERS
2. SIGN CONSTRUCTION IS $\frac{1}{8}$" ACRYLIC CORE WITH LAMINATE FACE
3. $\frac{1}{32}$" RAISED TEXT CHEMICALLY WELDED THROUGH LAMINATE FACE TO ACRYLIC CORE.
4. $\frac{1}{32}$" RAISED GRADE 2 BRAILLE TRANSLATION
5. SQUARE CORNER BACKER PLATE IS 0.030" LAMINATE TO MATCH FACE SIGN.

4 INTERIOR SIGN TYPE O
3" = 1'-0"

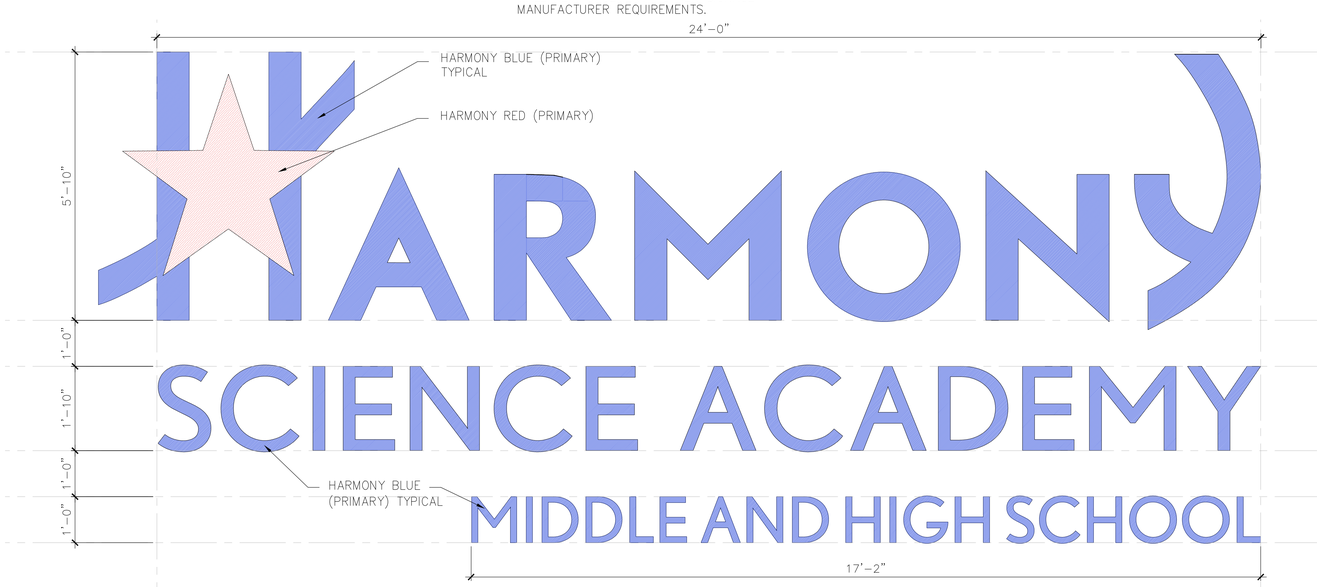


NOTE: ALL NAMES, GRAPHICS AND INFORMATION TO BE VERIFIED PRIOR TO ORDER. ARCHITECT SHALL HAVE FINAL APPROVAL OF LAYOUT.

2 BUILDING PLAQUE
3" = 1'-0"

GENERAL NOTE FOR EXTERIOR BUILDING SIGNAGE:

1. ALL LETTERING AND LOGO TO HAVE INDIVIDUAL LED LIGHT SOURCES. RE: ELECTRICAL.
2. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
3. MATERIAL – FABRICATED ALUMINUM – PAINTED FINISHED
4. GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED WALL REINFORCEMENT AS PER SIGNAGE MANUFACTURER REQUIREMENTS.



6 SCHOOL NAME - EXTERIOR SIGNAGE
3/4" = 1'-0" TYPE 4

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T 956.365.4820
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3700 N. 10TH, SUITE 205
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Corpus Christi, TX 78413
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STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
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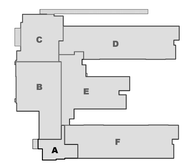
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
HARMONY LOGO BRAND AND INTERIOR SIGNAGE

A-117



SIGNAGE LEGEND	
A	PERMANENT INTERIOR ROOM IDENTIFICATION
B	OFFICE / CLASSROOM TYPE IDENTIFICATION
C	RESTROOM IDENTIFICATION
D	TACTILE INTERIOR EXIT SIGNS
E	DOOR IDENTIFICATION SIGN (EXTERIOR)

REFER TO SHEETS A-602, A-603, A-117 AND A-119 FOR SIGN TYPES AND NOTES, COORDINATE FINAL LOCATION OF SIGN WITH ARCHITECT

1 **DOOR SIGNAGE FLOOR PLAN**
SCALE: NOT TO SCALE

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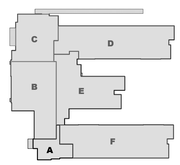

KEYPLAN

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Revisions:

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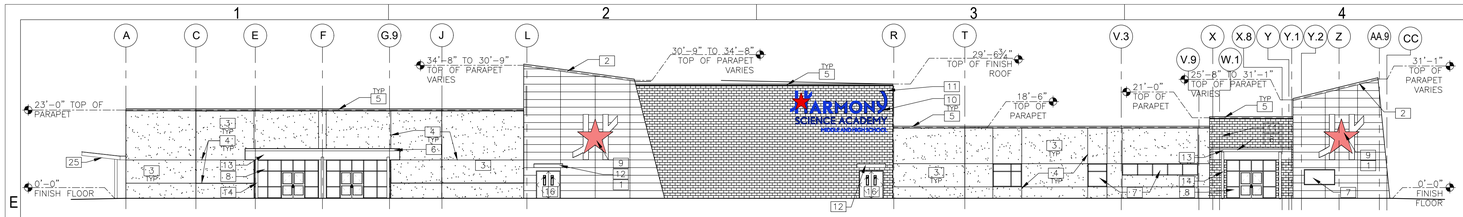
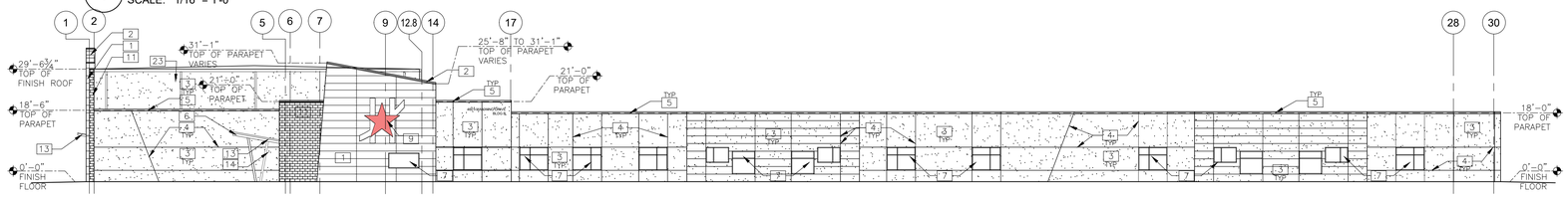
Sheet Title:
DOOR SIGNAGE FLOOR PLAN

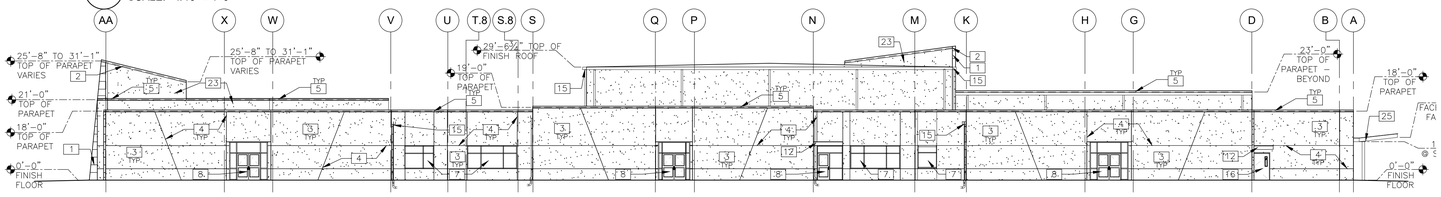
A-119



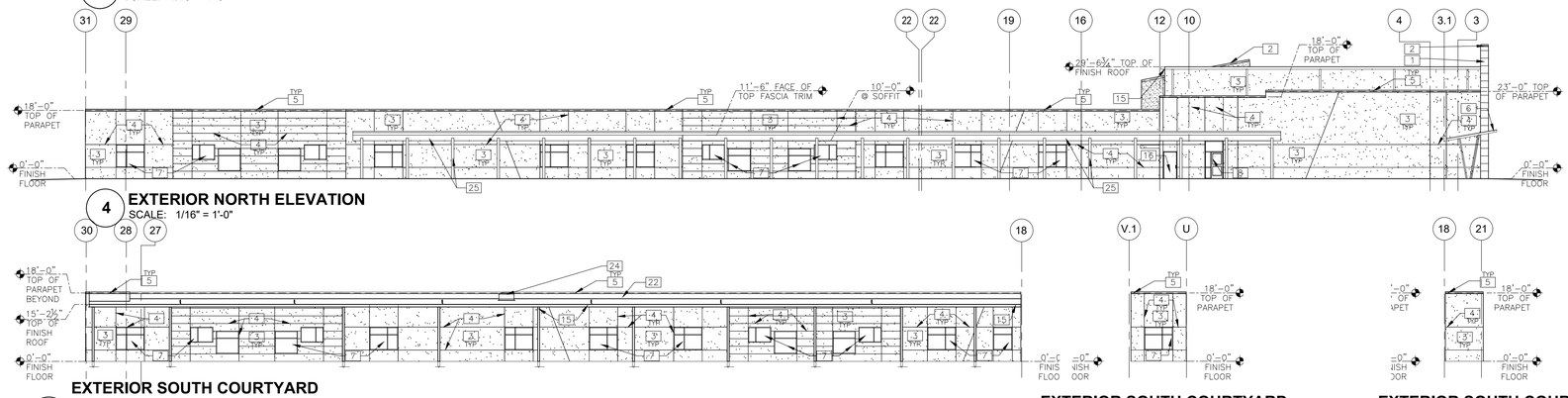
1 EXTERIOR WEST ELEVATION
SCALE: 1/16" = 1'-0"



2 EXTERIOR SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



3 EXTERIOR EAST ELEVATION
SCALE: 1/16" = 1'-0"

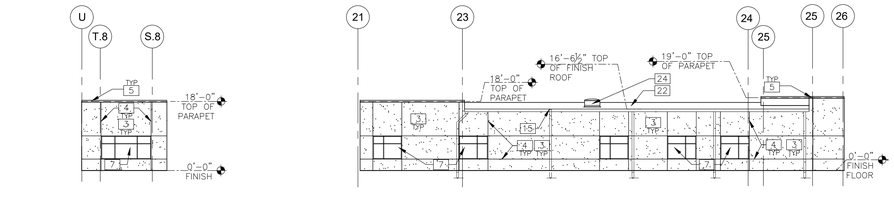


4 EXTERIOR NORTH ELEVATION
SCALE: 1/16" = 1'-0"

5 EXTERIOR SOUTH COURTYARD SOUTHERN ELEVATION
SCALE: 1/16" = 1'-0"

6 EXTERIOR SOUTH COURTYARD NORTHERN ELEVATION
SCALE: 1/16" = 1'-0"

7 EXTERIOR SOUTH COURTYARD NORTHERN ELEVATION
SCALE: 1/16" = 1'-0"

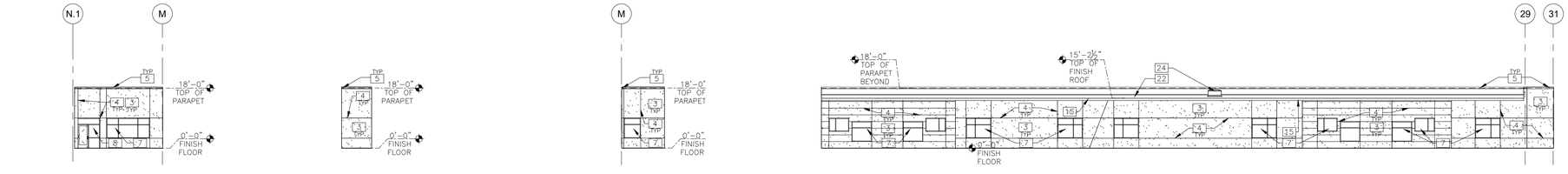


8 EXTERIOR SOUTH COURTYARD NORTHERN ELEVATION
SCALE: 1/16" = 1'-0"

9 EXTERIOR SOUTH COURTYARD NORTHERN ELEVATION
SCALE: 1/16" = 1'-0"

10 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"

11 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"



12 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"

13 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"

14 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"

15 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES FOUND ON THE PLANS OR DEVIATIONS FROM DOCUMENTED ON–SITE CONDITIONS. FAILURE TO NOTIFY THE ARCHITECT IN A TIMELY MANNER SHALL RESULT IN THE CONTRACTOR TAKING RESPONSIBILITY FOR ANY AND ALL REMEDIAL MEASURES REQUIRED.
2. DIMENSIONS ARE SHOWN FROM FACE OF BUILDING FACADE, BACK OF CURB, OR COORDINATE POINT UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE PROJECT LIMITS.
4. DO NOT SCALE DRAWINGS.
5. REFER TO CIVIL DRAWINGS FOR GRADING, UTILITY AND ADDITIONAL LAYOUT INFORMATION.
6. REFER TO ARCHITECTURAL FOR BUILDING DIMENSIONS AND INFORMATION.
7. VERIFY LOCATIONS OF ALL OVERHEAD AND UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
8. WHERE DIMENSIONS ARE IN FEET ONLY, CONTRACTOR IS TO ASSUME THEY ARE 0" (E.G. 12' = 12'–0")
9. MARK FOR STAKE LOCATIONS OF FENCING, SITE WALLS, SITE FURNITURE, ETC. FOR APPROVAL BY ARCHITECT, PER SPECIFICATIONS, PRIOR TO INSTALLATION.
10. VERIFY EXISTING SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
11. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
12. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON–SITE OFF–SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
13. EXAMINE SPECIFIED PRODUCTS AND SUBMIT WRITTEN EXCEPTIONS, OBJECTIONS, OR SUBSTITUTIONS WITH ANALYSIS AND RECOMMENDATIONS PRIOR TO SUBMITTING BID COST OR COMMENCING WORK.
14. THE RESPONSIBILITY FOR THE ADEQUACY OF PROPOSED SUBSTITUTIONS FALLS ON THE GENERAL CONTRACTOR. SHOULD A SUBSTITUTION PRODUCT FAIL TO PERFORM WHERE THE ORIGINALLY SPECIFIED PRODUCT WOULD HAVE PERFORMED ALL NECESSARY WORK TO REINCORPORATE THE ORIGINAL PRODUCT MUST BE DONE AT NO ADDITIONAL COST.
15. WHERE COMPLEX ASSEMBLY INVOLVING TWO OR MORE TRADES IS CALLED FOR ON THE DRAWINGS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED INTERACTION OF ALL RELATED COMPONENTS FOR ARCHITECTS REVIEW. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER TESTING, OPERATING AND PERFORMANCE OF THE ENTIRE COMPOSITE SYSTEM.
16. WHEREVER MATERIALS ARE STORED AT THE JOBSITE, THEY SHOULD BE PROTECTED FROM DAMAGE, VANDALISM, FIRE AND INCLEMENT WEATHER. THE GENERAL CONTRACTOR SHALL PRODUCE EVIDENCE OF INSURANCE FOR MATERIALS STORED PRIOR TO PAYMENT BY THE OWNER.
17. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY TO USE.
18. REFER TO G SHEETS FOR ADA REQUIREMENTS FOR TOILET FIXTURE HEIGHTS.
19. REFER TO ELECTRICAL DRAWINGS FOR WALL MOUNTED EXTERIOR LIGHT FIXTURES.
20. COORDINATE CONTROL JOINTS LOCATIONS WITH ARCHITECT BEFORE INSTALLATION.
21. EXTERIOR WALL COLOR SCHEME WILL CONSIST OF FIVE (5) EIFS COLORS, METAL COMPOSITE WALL PANELS – CUSTOM COLOR (HARMONY BLUE) AND DECORATIVE CMU. FINAL COLOR SCHEME TO BE DETERMINE FOR EIFS WALL FINISHES.
22. CONTRACTOR TO PROVIDE PRE–FINISHED SHEET METAL GUTTER AND DOWNSPOUT ASSEMBLY WITH CAST IRON OFFSET DOWNSPOUT BOOT – TIED INTO UNDERGROUND STORM DRAIN PIPING – COORDINATE WITH CIVIL FOR UNDERGROUND CONNECTION – TYPICAL
23. ENTRY CANOPY GENERAL NOTES:
FINAL COLOR SELECTIONS FOR ENTRY CANOPIES AT SECURE LOBBY A100 AND CAFETERIA C103 AND CORRIDOR B128 TO BE TWO DIFFERENT COLORS.
METAL ROOF PANELS – COLOR 1, SOFFIT METAL PANELS AND FASCIA TRIM – COLOR 2

KEYED NOTES : #

1. METAL COMPOSITE MATERIAL WALL PANELS – TYPICAL
2. METAL COMPOSITE MATERIAL WALL PANEL PARAPET CAP – TYPICAL
3. ULTRA HIGH IMPACT EIFS ASSEMBLY – TYPICAL
4. EIFS CONTROL JOINT – TYPICAL
5. PRE–FINISHED SHEET METAL PARAPET CAP – TYPICAL
6. PRE–FINISHED SHEET METAL FASCIA TRIM – TYPICAL
7. ALUMINUM STOREFRONT SYSTEM – TYPICAL
8. ALUMINUM STOREFRONT ENTRANCE SYSTEM – TYPICAL
9. 12FT HARMONY PUBLIC SCHOOL "H" LOGO SIGN – LED BACKLITE – TYPICAL
10. HARMONY PUBLIC SCHOOL LOGO/SCHOOL NAME SIGN – LED BACKLITE – TYPICAL
11. DECORATIVE CMU VENEER – TYPICAL
12. PRE–FINISHED EXTRUDED ALUMINUM PRE–ENGINEERED DOOR ENTRY DOOR CANOPY – TYPICAL
13. STRUCTURE METAL CANOPY – TYPICAL
14. STRUCTURAL CANOPY COLUMNS – TYPICAL
15. PRE–FINISHED SHEET METAL GUTTER/DOWNSPOUT ASSEMBLY TYPICAL
16. HOLLOW METAL DOOR AND FRAME, PAINTED – TYPICAL
17. PAINTED CAST–IRON DOWNSPOUT BOOT, TIED INTO UNDERGROUND STORM DRAIN PIPING SYSTEM, COORDINATE WITH CIVIL – TYPICAL
18. "FCD" SIGNAGE – COORDINATE WITH LOCAL FIRE MARSHALL OFFICE
19. HVAC RTU BEYOND – TYPICAL
20. ELECTRICAL WALL PACK LIGHT FIXTURE – TYPICAL
21. SECURITY CAMERA FIXTURE – TYPICAL
22. ROOF SYSTEM BEYOND – TYPICAL
23. ULTRA HIGH IMPACT EIFS ASSEMBLY – BACK OF PARAPET – TYPICAL
24. SKYLIGHT ASSEMBLY – TYPICAL
25. PRE–ENGINEERED DROP–OFF/PICK UP CANOPY – AVAdek OR EQUAL, ENGINEERING PER CANOPY MANUFACTURER, INCLUDING FOUNDATION

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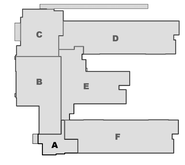

KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
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Revisions:

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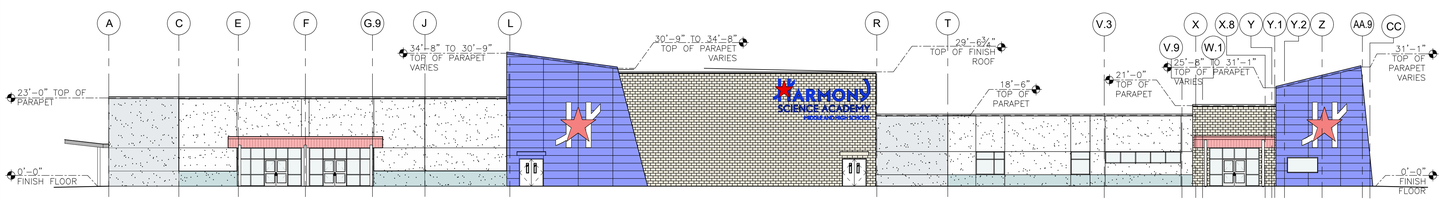
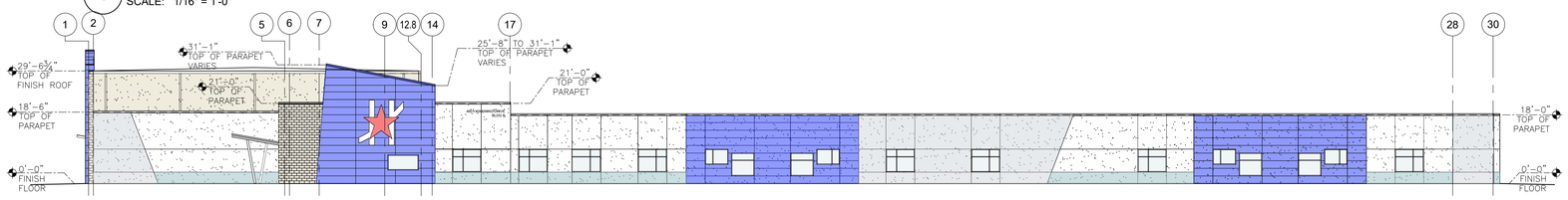
Sheet Title:

EXTERIOR ELEVATIONS

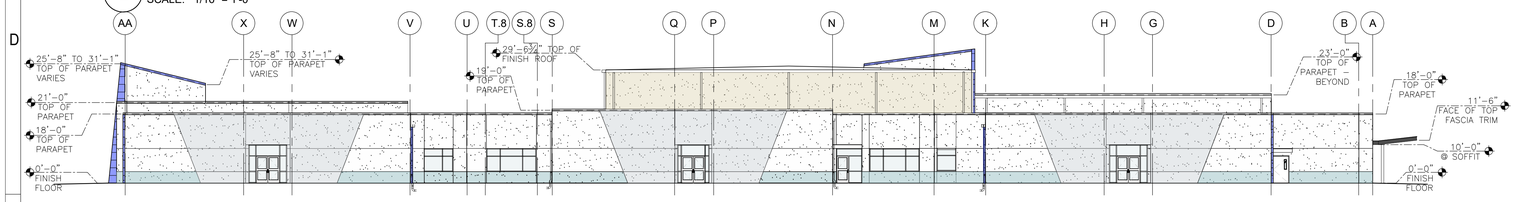
A-200



1 EXTERIOR WEST ELEVATION
SCALE: 1/16" = 1'-0"



2 EXTERIOR SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



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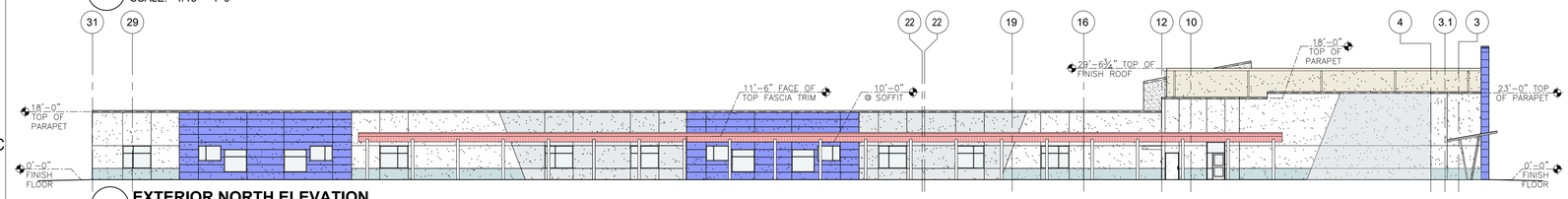
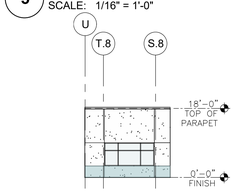
SCALE: 1/16" = 1'-0"



4 EXTERIOR NORTH ELEVATION
SCALE: 1/16" = 1'-0"



5 EXTERIOR SOUTH COURTYARD SOUTHERN ELEVATION
SCALE: 1/16" = 1'-0"



8 EXTERIOR SOUTH COURTYARD NORTHERN ELEVATION
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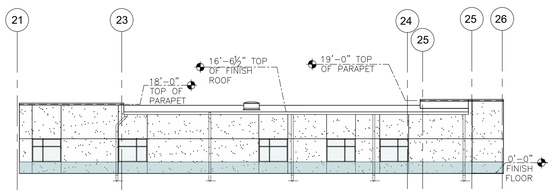

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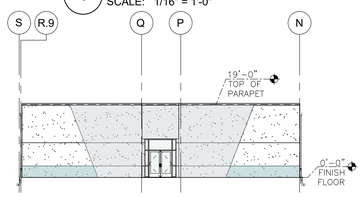

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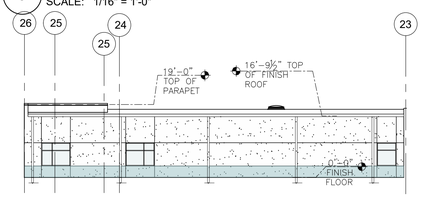

11 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
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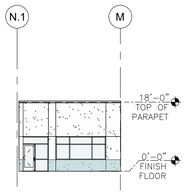

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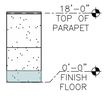
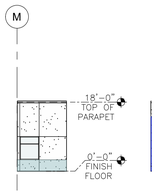
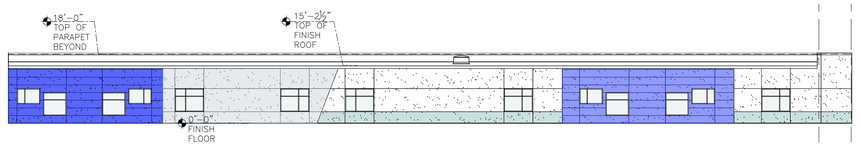


13 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"



14 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"



15 EXTERIOR NORTH COURTYARD NORTHEN ELEVATION
SCALE: 1/16" = 1'-0"

EXTERIOR WALL FINISH COLOR SELECTIONS:

DECORATIVE CMU:

M1 – LIMESTONE WHITE – SMOOTH FACE CMU

METAL COMPOSITE WALL PANELS:

HARMONY BLUE – METAL COMPOSITE WALL PANELS

METAL COMPOSITE WALL PANEL PARAPET CAP:

HARMONY BLUE – METAL COMPOSITE WALL PANELS

EXTERIOR INSULATION FINISHING SYSTEM:

EIFS COLOR 1 – SW6247 KRYTON

EIFS COLOR 2 – SW7015 REPOSE GRAY

EIFS COLOR 3 – SW7003 TOQUE WHITE

EIFS COLOR 4 – SW6106 KILIM BEIGE

EIFS COLOR 5 – SW6966 BLUE BLOOD

STRUCTURAL CANOPIES:

METAL ROOF PANELS:

COLOR 1 – "WHITE" (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

SOFFIT PANELS, AND FASCIA:

COLOR 2 – "RED" BRITE RED (MCELROY METAL) OR DEEP RED (BERRIDGE) (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

COLUMNS:

COLOR 1 – "WHITE" (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

PRE-ENGINEERED CANOPY: (DROP-OFF/PICK-UP)

METAL ROOF PANELS:

COLOR 1 – "WHITE" (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

SOFFIT PANELS, AND FASCIA:

COLOR 2 – "RED" BRITE RED (MCELROY METAL) OR DEEP RED (BERRIDGE) (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

COLUMNS:

COLOR 1 – "WHITE" (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

SHEET METAL PARAPET CAP:

COLOR 1 – (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

SHEET METAL DOWNSPOUT AND GUTTER ASSEMBLY:

COLOR 1 – (COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE)

DUMPSTER GATE COLOR SELECTION:

SW 6106 KILIM BEIGE

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
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F 361.884.4232
222 E. VAN BUREN, SUITE 102
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3700 N. 10TH, SUITE 205
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CONSULTANTS:

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COBB FENDLEY & ASSOCIATES
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HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
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Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
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Tel : 210-546-0200

INFORMATION TECHNOLOGY:
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100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

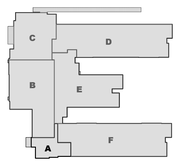
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT – RAYMOND D. GIGNAC – 6296 – STATE OF TEXAS

EXPIRATION DATE 11/30/2026 SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

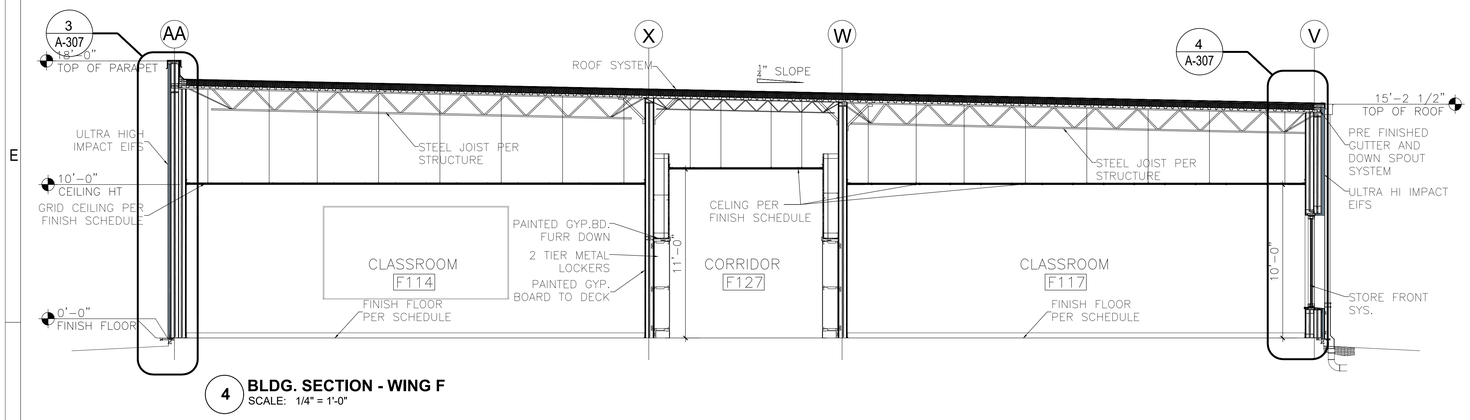
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

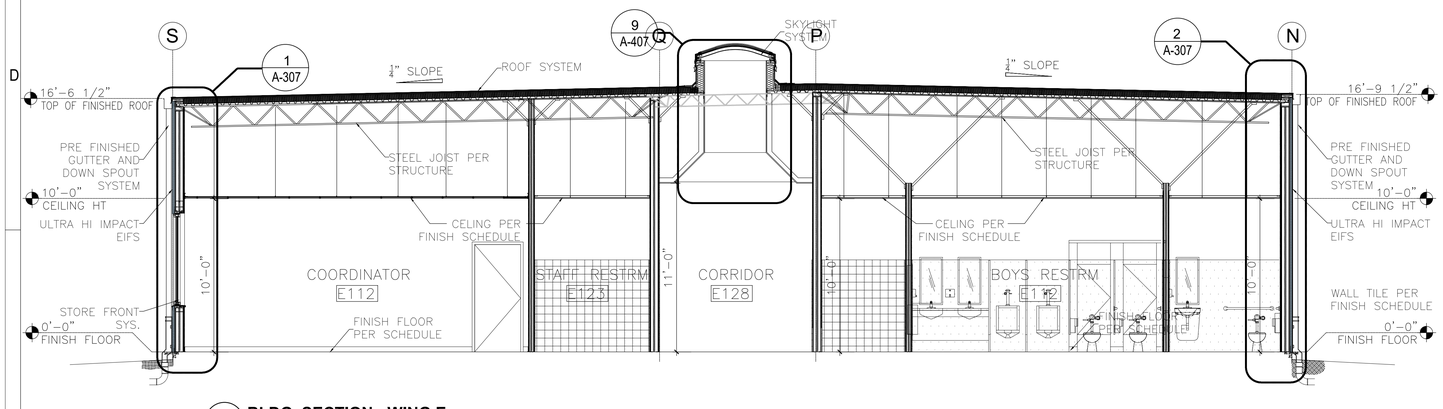
No.	Description	Date

Sheet Title:
EXTERIOR BUILDING FINISH SELECTIONS

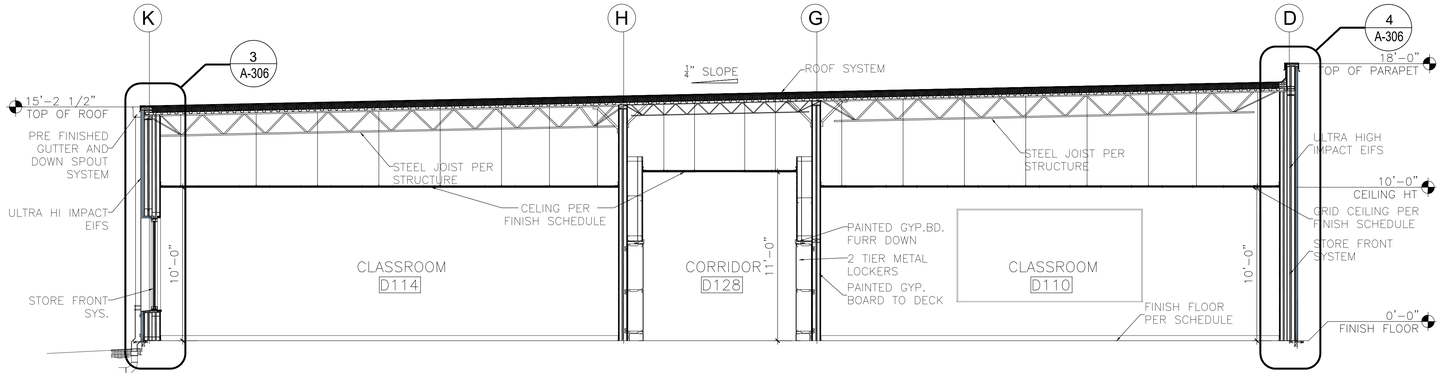
A-201



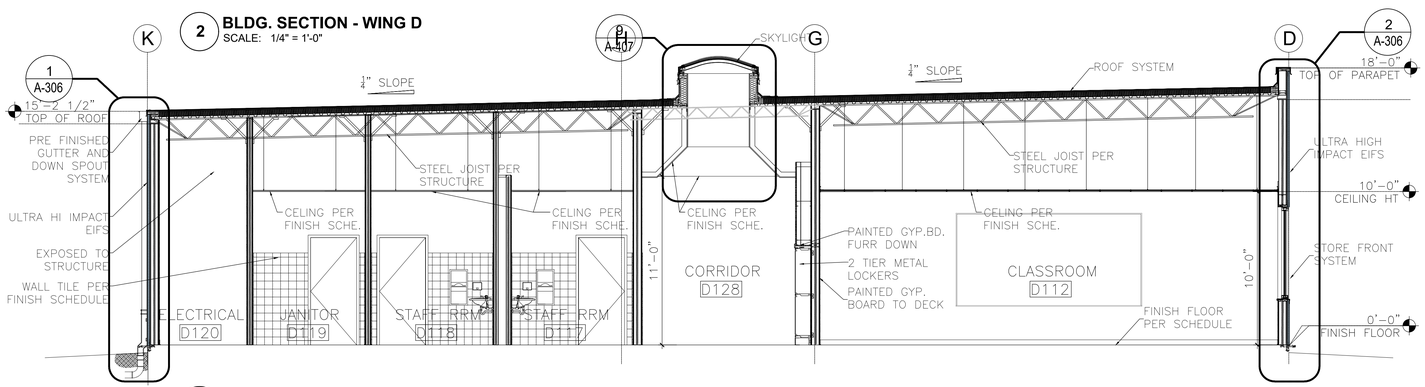
4 BLDG. SECTION - WING F
SCALE: 1/4" = 1'-0"



3 BLDG. SECTION - WING E
SCALE: 1/4" = 1'-0"



2 BLDG. SECTION - WING D
SCALE: 1/4" = 1'-0"



1 BLDG. SECTION - WING D
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACENT SURFACES.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
6. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
7. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE UNLESS NOTED OTHERWISE.
11. CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, UNLESS NOTED OTHERWISE.
12. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR.

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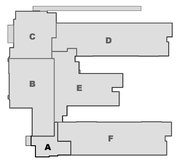


KEYPLAN

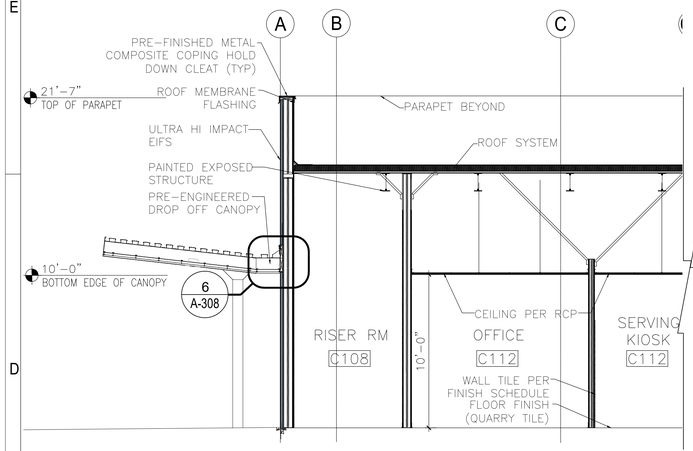
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

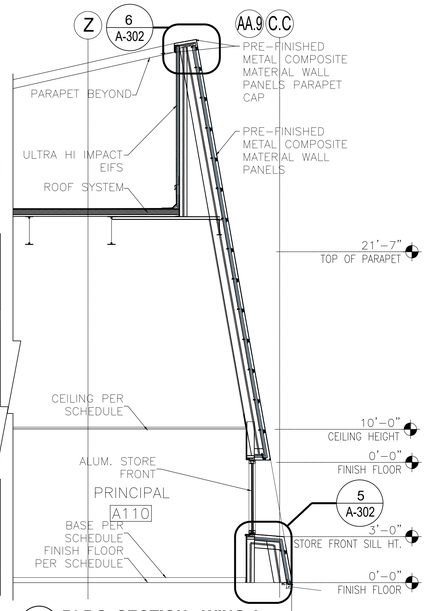
No.	Description	Date

Sheet Title:
BUILDING SECTIONS

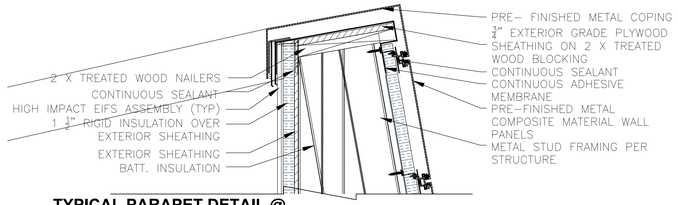
A-301



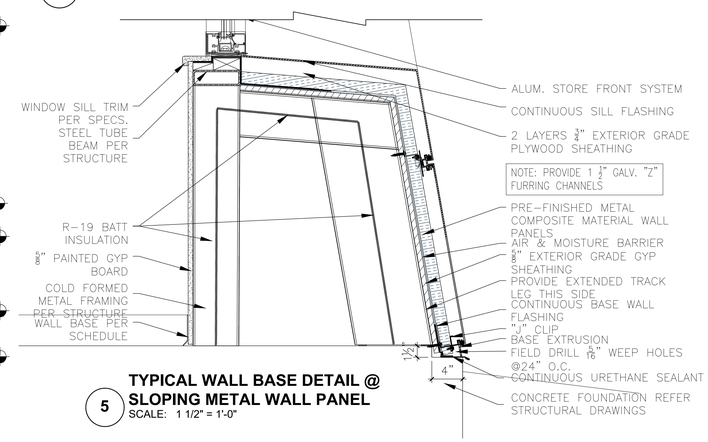
3 BLDG. SECTION - WING C
SCALE: 1/4" = 1'-0"



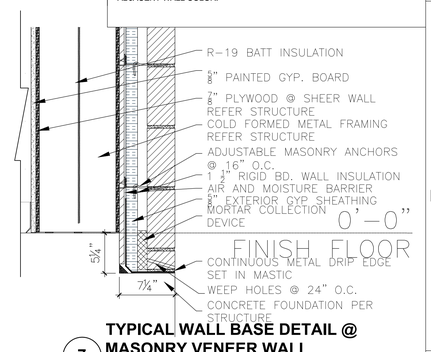
4 BLDG. SECTION - WING A
SCALE: 1/4" = 1'-0"



6 TYPICAL PARAPET DETAIL @ SLOPING METAL WALL PANEL
SCALE: 1 1/2" = 1'-0"



5 TYPICAL WALL BASE DETAIL @ SLOPING METAL WALL PANEL
SCALE: 1 1/2" = 1'-0"



7 TYPICAL WALL BASE DETAIL @ MASONRY VENEER WALL
SCALE: 1 1/2" = 1'-0"

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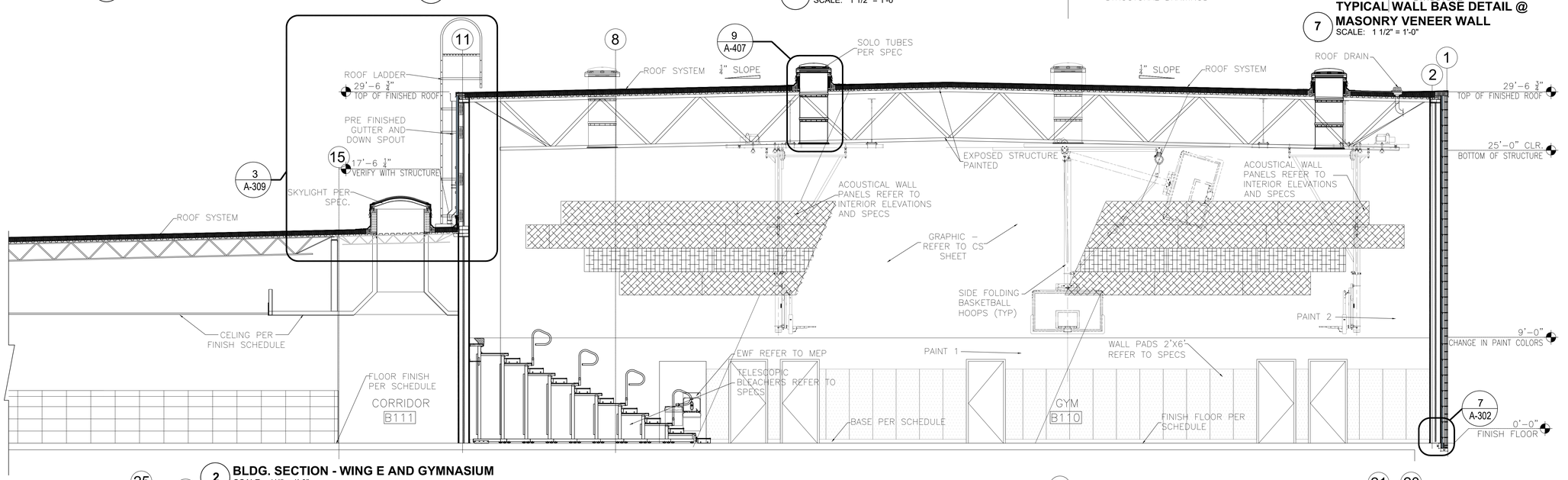
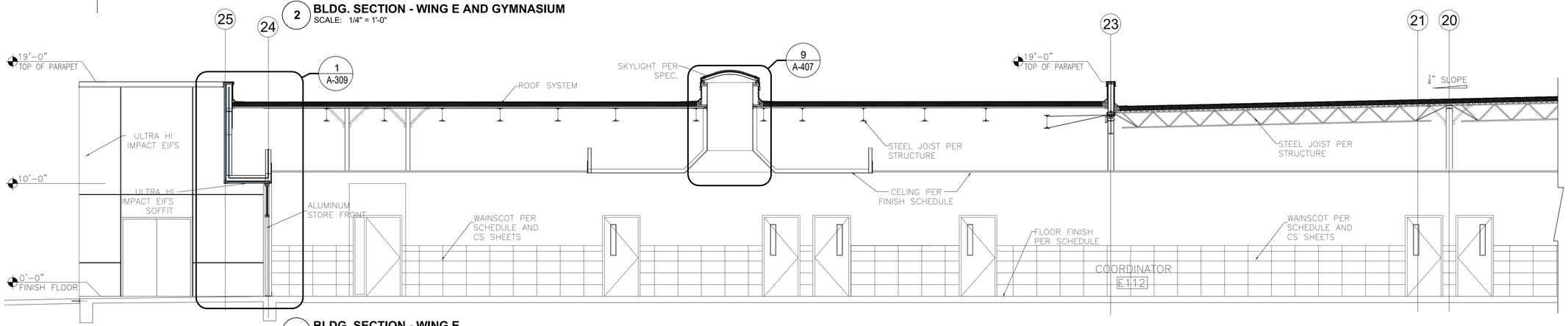


2 BLDG. SECTION - WING E AND GYMNASIUM
SCALE: 1/4" = 1'-0"



1 BLDG. SECTION - WING E
SCALE: 1/4" = 1'-0"

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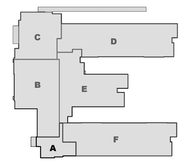
REGISTERED ARCHITECT RAYMOND G. GIGNAC 23236 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
BUILDING SECTIONS

A-302

GENERAL NOTES

1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.

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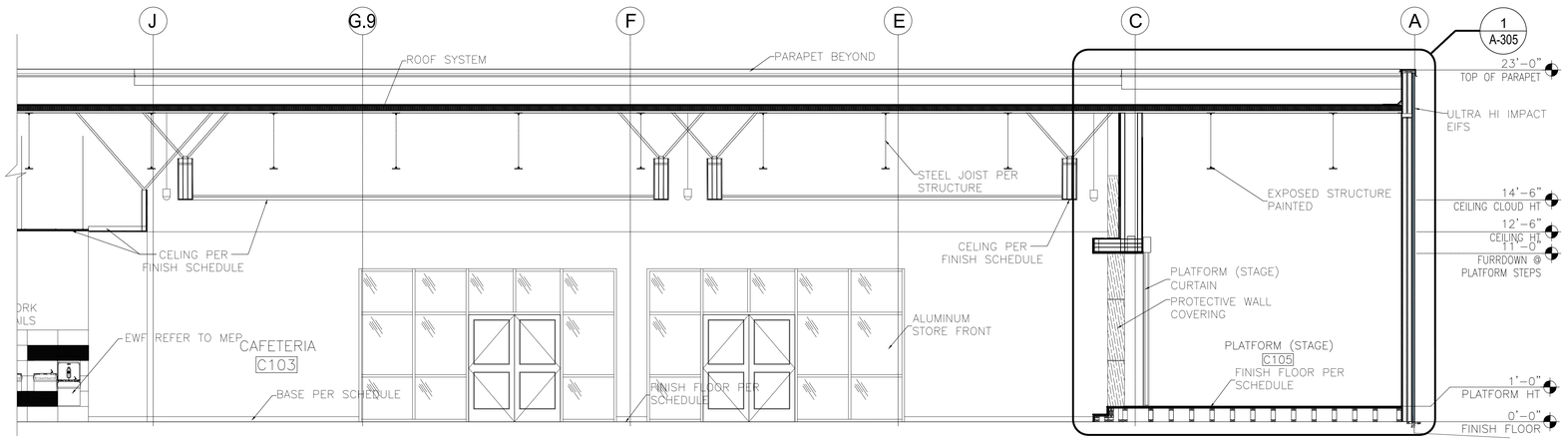
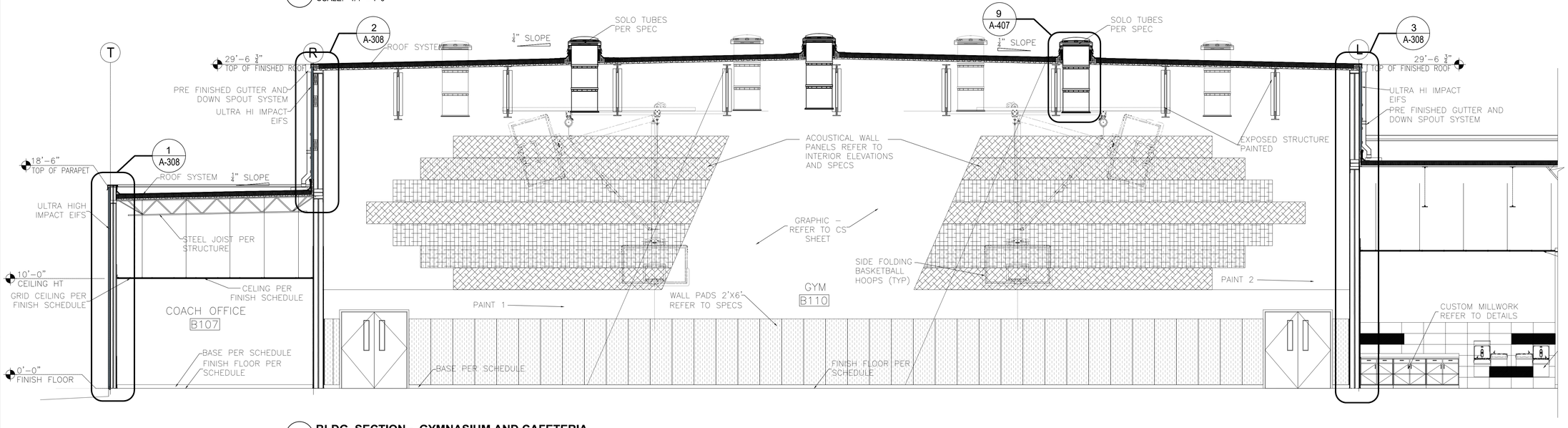


2 BLDG. SECTION - CAFETERIA AND STAGE
SCALE: 1/4" = 1'-0"



1 BLDG. SECTION - GYMNASIUM AND CAFETERIA
SCALE: 1/4" = 1'-0"

GIGNAC | ARCHITECTS
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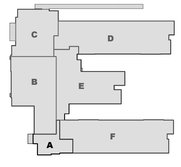

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
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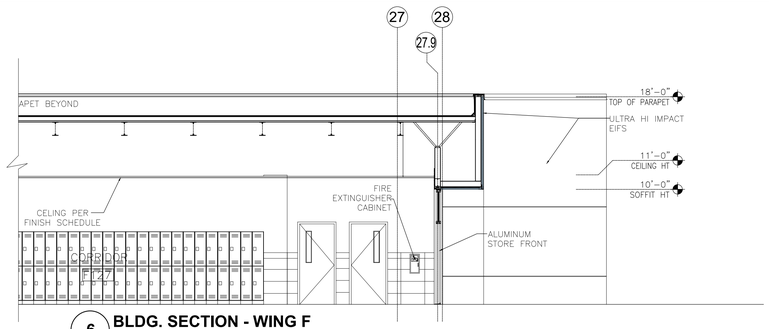
Revisions:

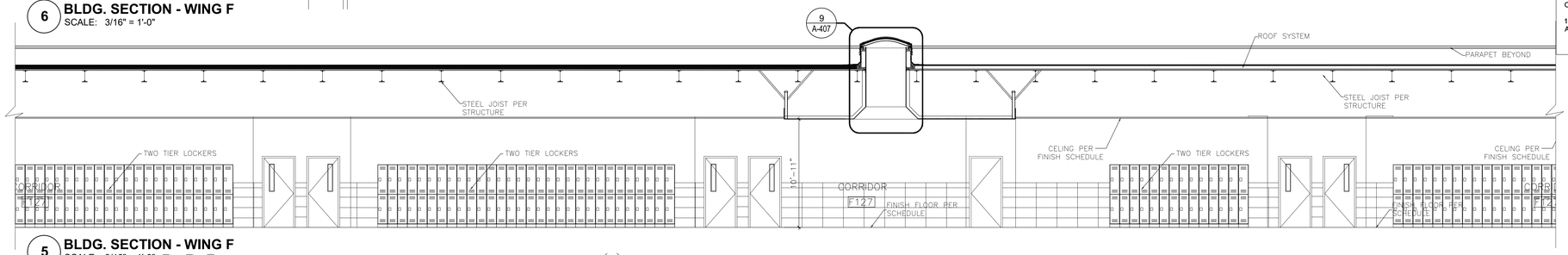
No.	Description	Date

Sheet Title:
BUILDING SECTIONS

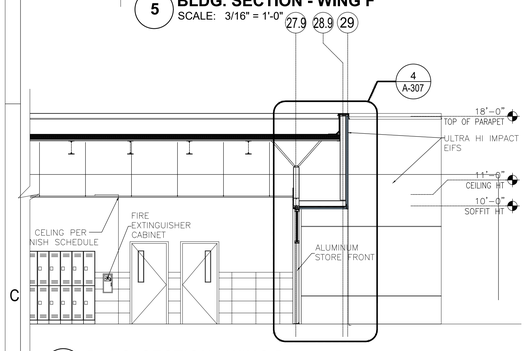
A-303



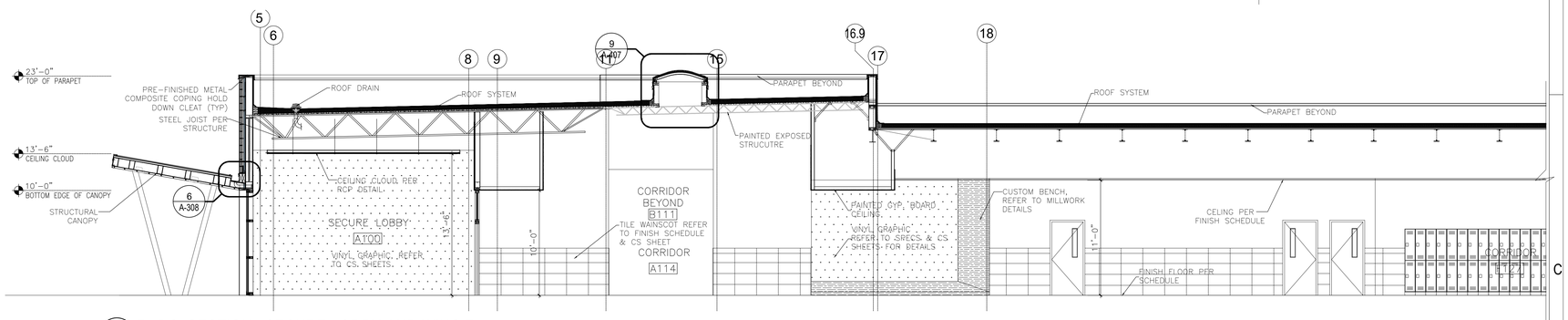
6 BLDG. SECTION - WING F
SCALE: 3/16" = 1'-0"



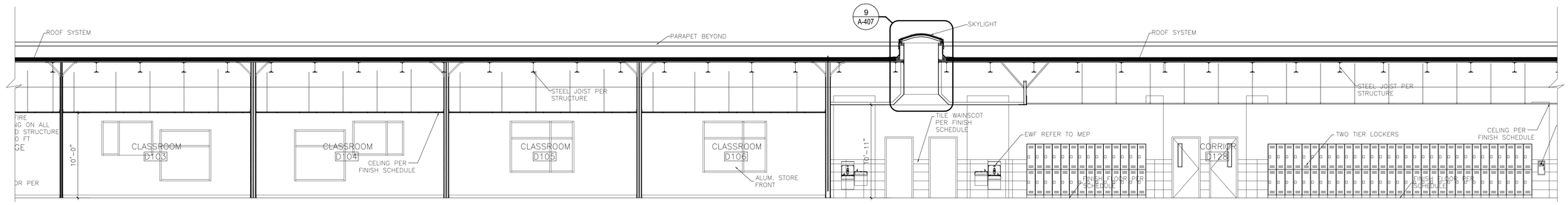
5 BLDG. SECTION - WING F
SCALE: 3/16" = 1'-0"



3 BLDG. SECTION - WING D
SCALE: 3/16" = 1'-0"



4 BLDG. SECTION - SECURE LOBBY AND WING F
SCALE: 3/16" = 1'-0"



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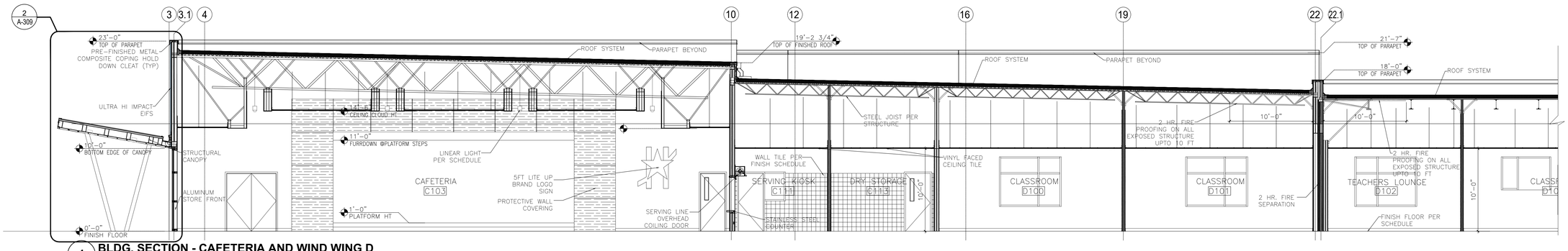
SCALE: 3/16" = 1'-0"



1 BLDG. SECTION - CAFETERIA AND WIND WING D
SCALE: 3/16" = 1'-0"

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4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
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MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
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INFORMATION TECHNOLOGY:
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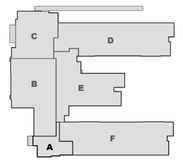
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

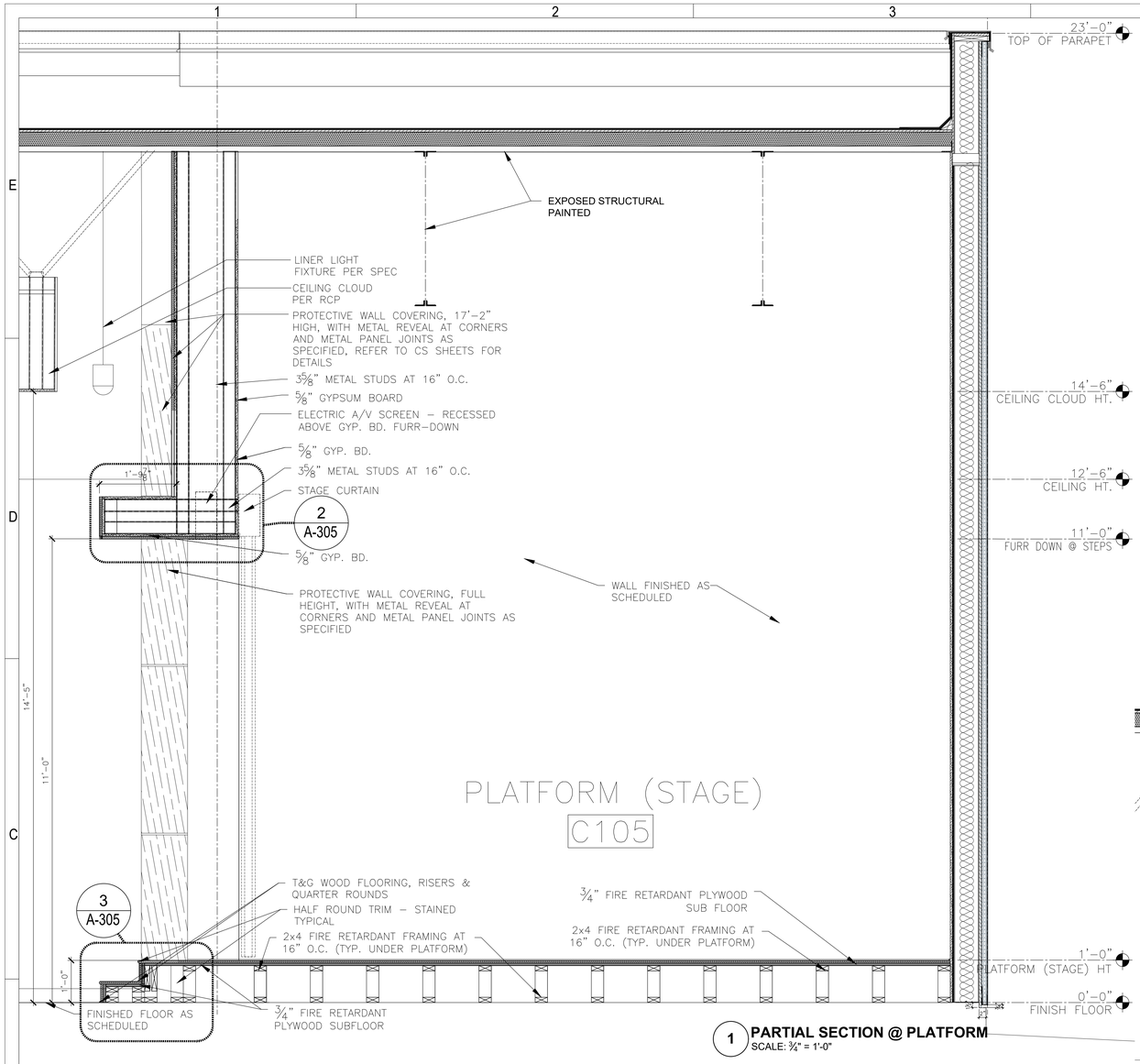
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

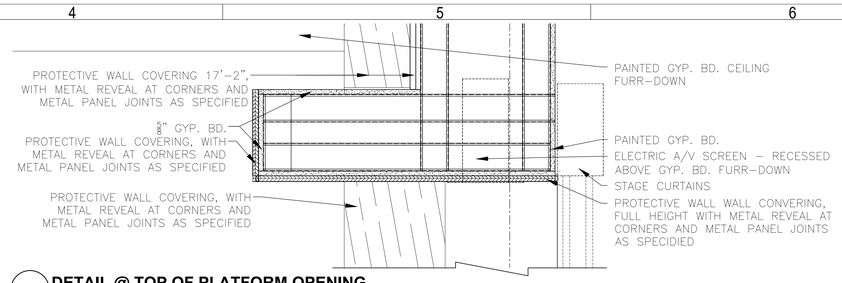
No.	Description	Date

Sheet Title:
BUILDING SECTIONS

A-304



1 **PARTIAL SECTION @ PLATFORM**
SCALE: 3/4" = 1'-0"



2 **DETAIL @ TOP OF PLATFORM OPENING**
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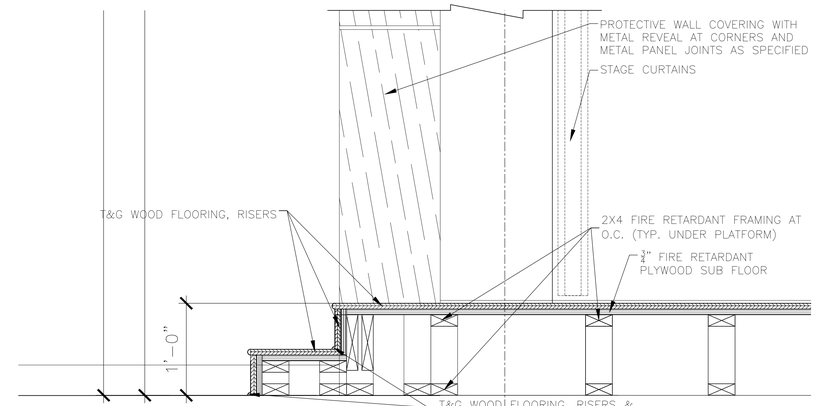

3 **DETAIL @ PLATFORM STEPS**
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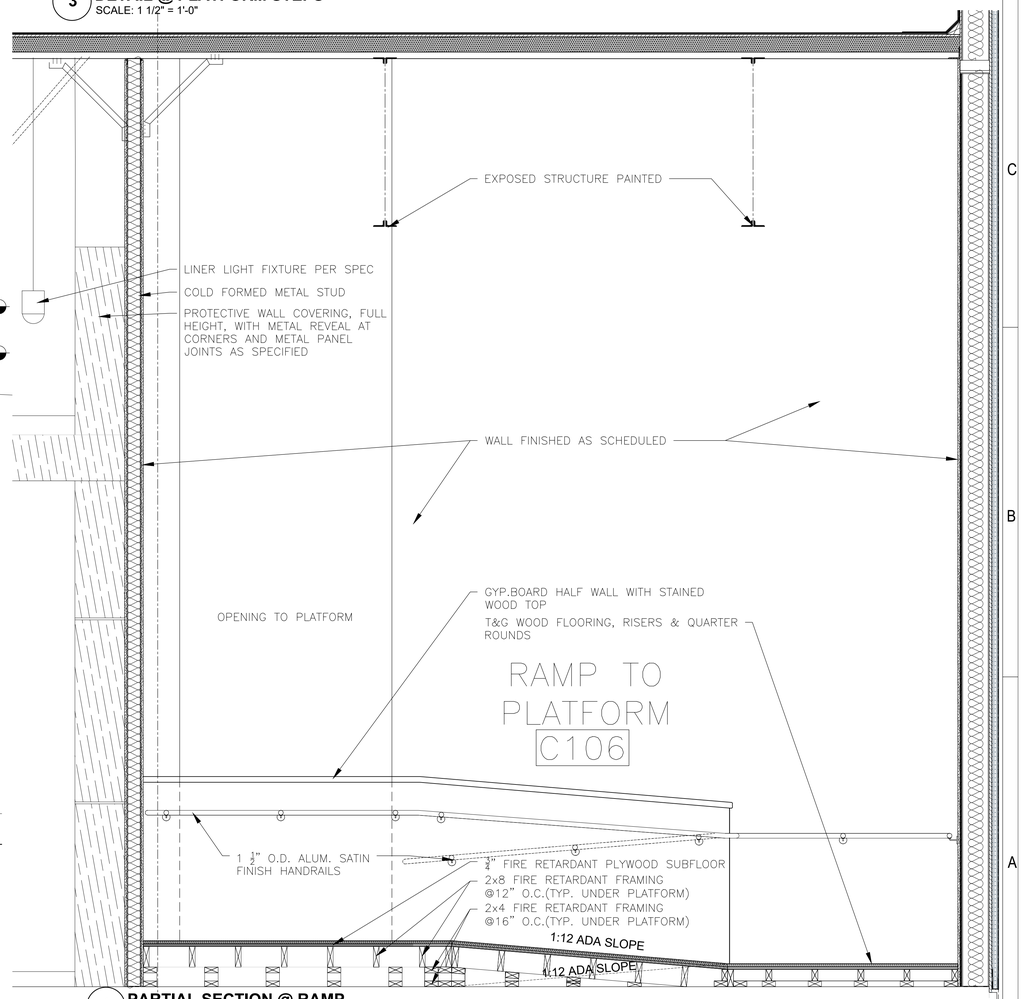

4 **PARTIAL SECTION @ RAMP**
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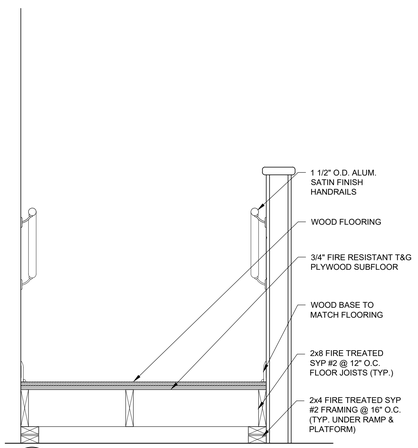
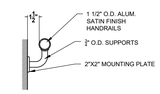
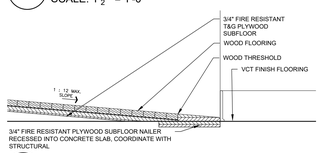


5 **DETAIL**
SCALE: 1" = 1'-0"



6 **DETAIL**
SCALE: 1 1/2" = 1'-0"



7 **DETAIL**
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT RAYMOND D. GIGNAC 6295 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

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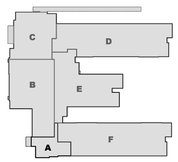


KEYPLAN

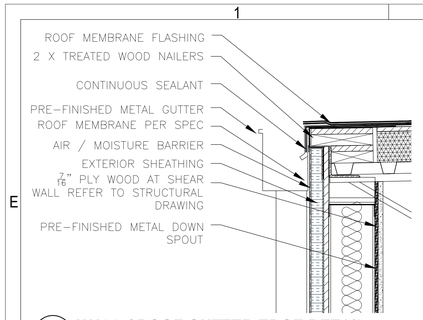
Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

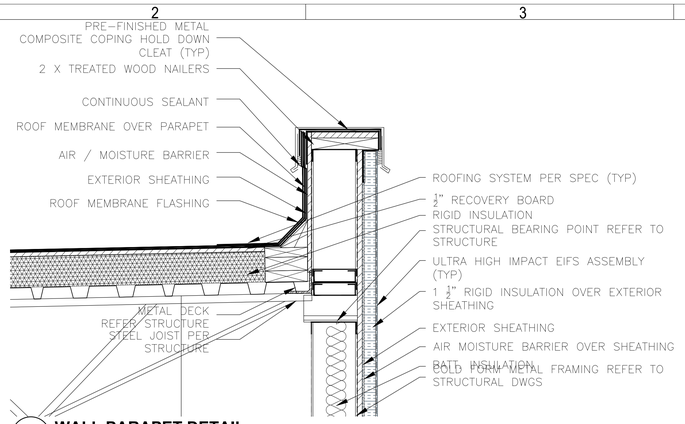
No.	Description	Date

Sheet Title:
PLATFORM & RAMP SECTIONS & DETAILS

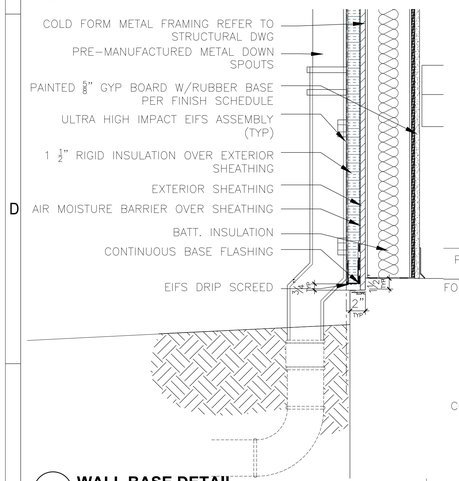
A-305



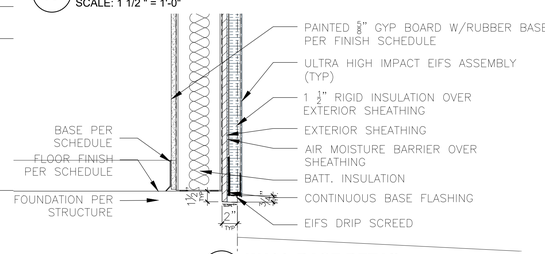
9 WALL / ROOF GUTTER EDGE DETAIL
SCALE: 1 1/2 " = 1'-0"



10 WALL PARAPET DETAIL
SCALE: 1 1/2 " = 1'-0"



5 WALL BASE DETAIL
SCALE: 1 1/2 " = 1'-0"



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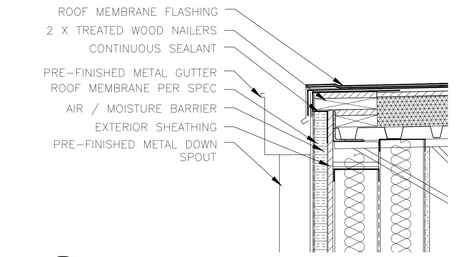
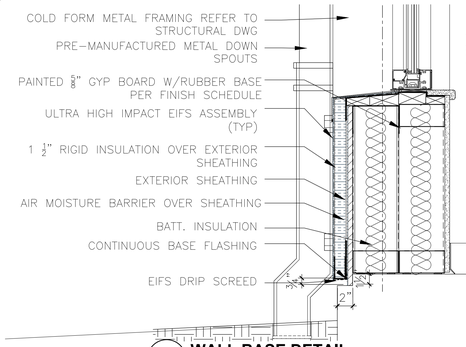
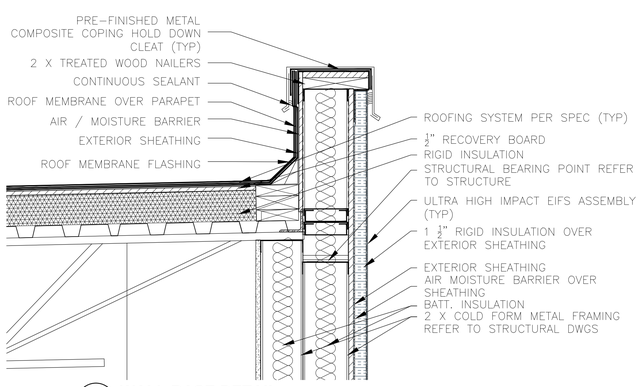
SCALE: 1 1/2 " = 1'-0"



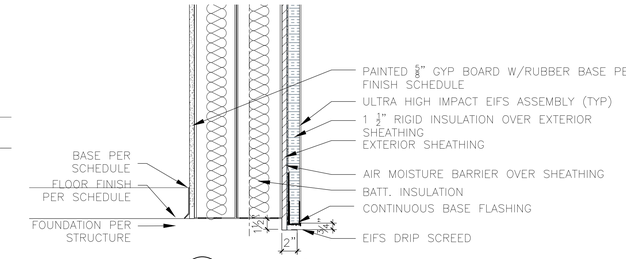
11 WALL / ROOF DETAIL
SCALE: 1 1/2 " = 1'-0"



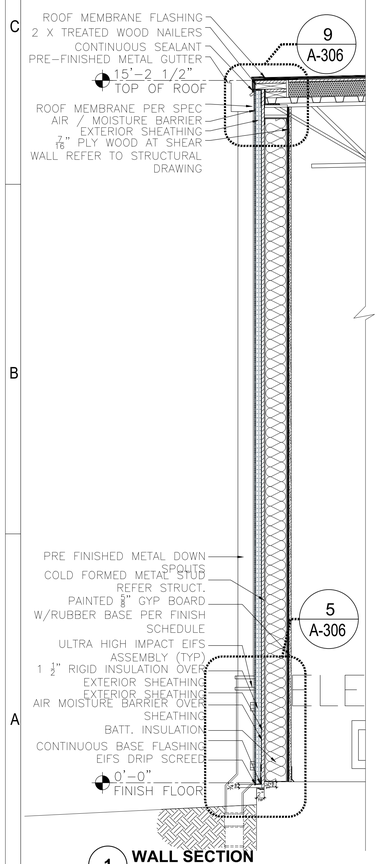
7 WALL BASE DETAIL
SCALE: 1 1/2 " = 1'-0"



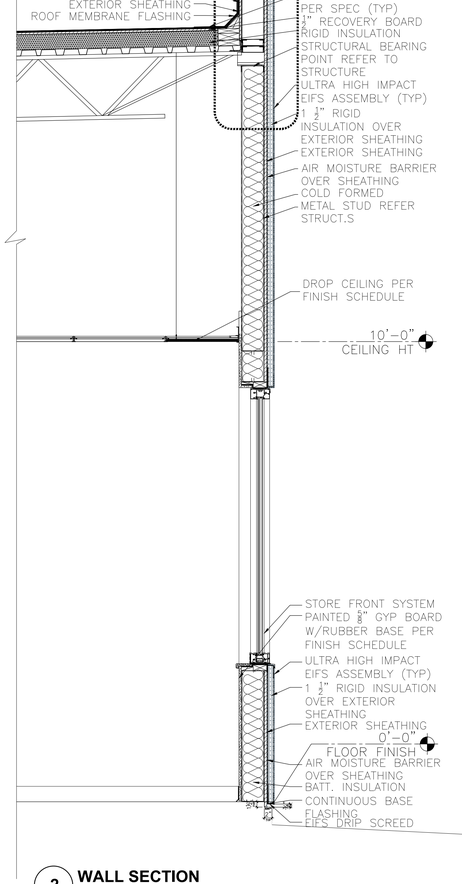
12 WALL BASE DETAIL
SCALE: 1 1/2 " = 1'-0"



8 WALL BASE DETAIL
SCALE: 1 1/2 " = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"



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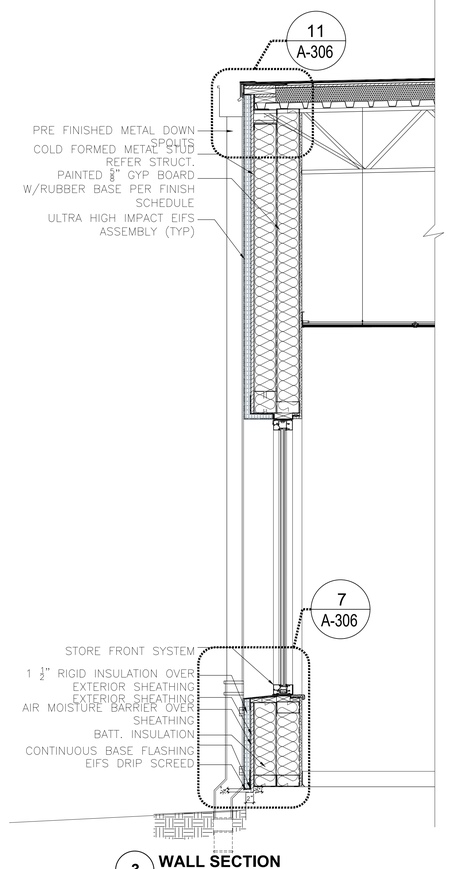

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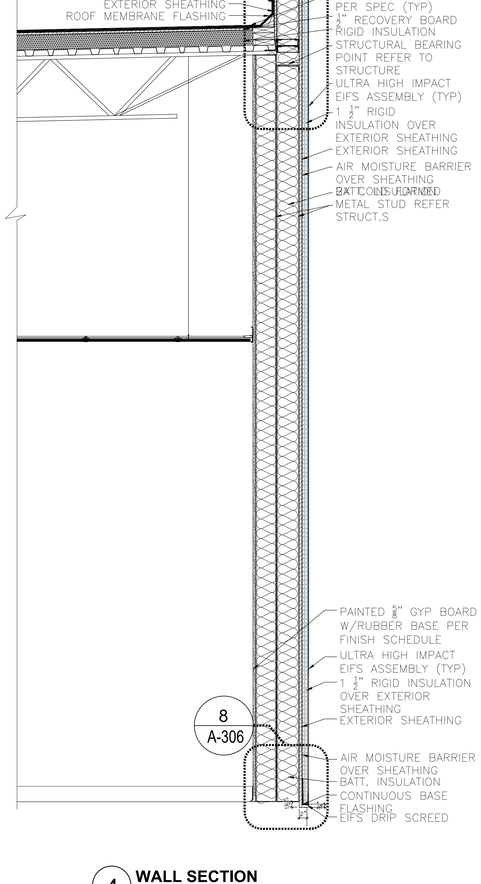
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"

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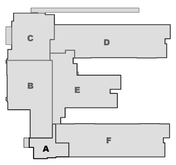


KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

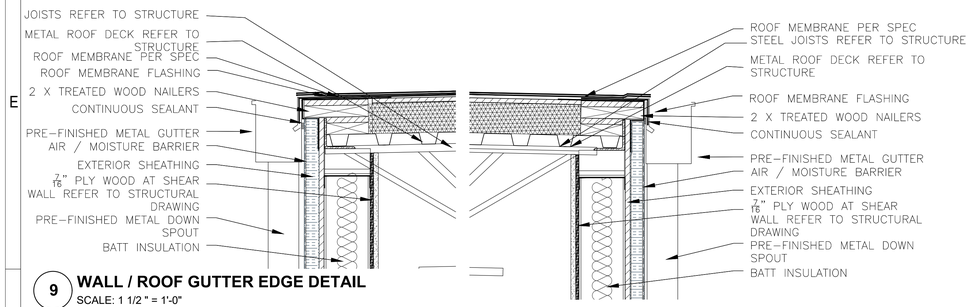
Drawn: RD
Checked: RG

Revisions:

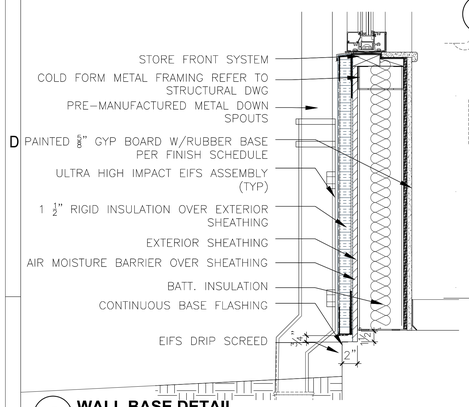
No.	Description	Date

Sheet Title:
WALL SECTIONS & DETAILS

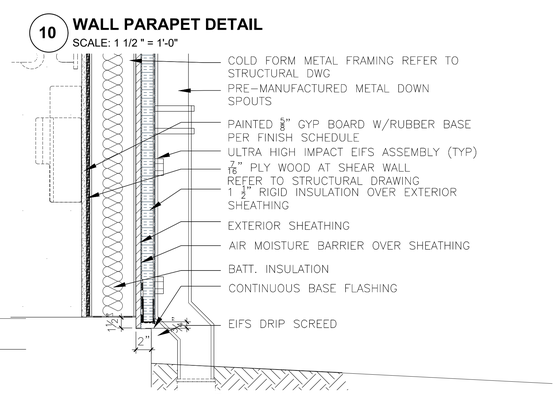
A-306



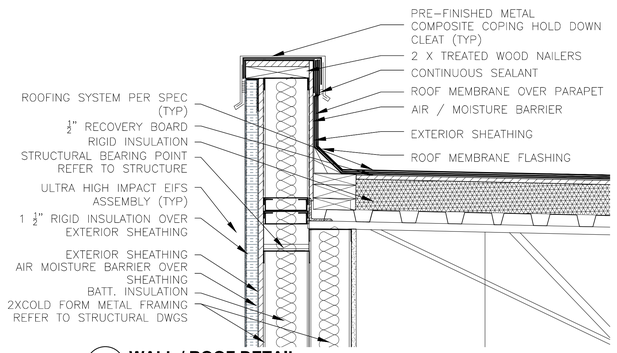
9 WALL / ROOF GUTTER EDGE DETAIL
SCALE: 1 1/2 " = 1'-0"



5 WALL BASE DETAIL
SCALE: 1 1/2 " = 1'-0"



10 WALL PARAPET DETAIL
SCALE: 1 1/2 " = 1'-0"



11 WALL / ROOF DETAIL
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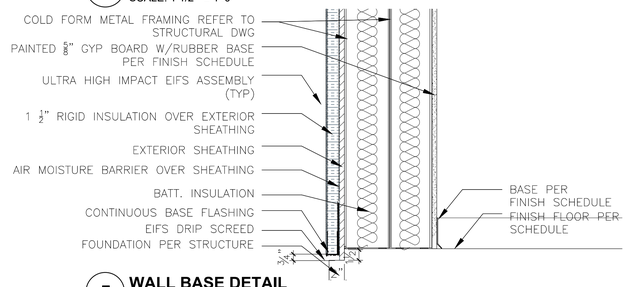

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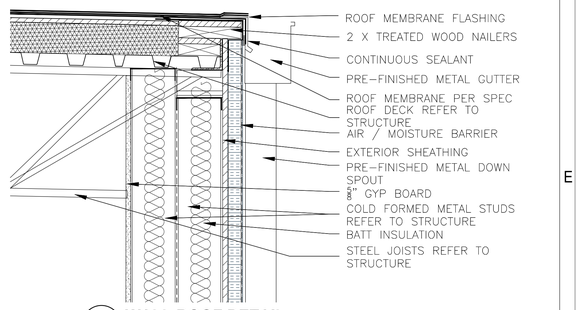
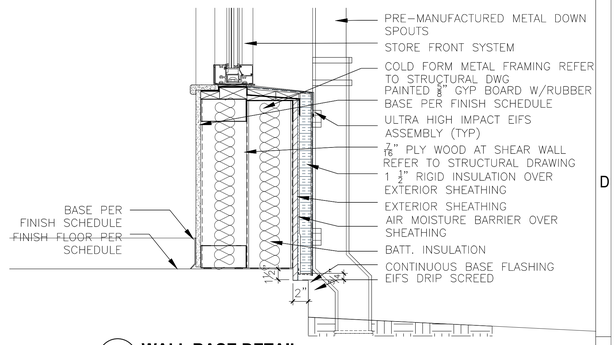


12 WALL ROOF DETAIL
SCALE: 1 1/2 " = 1'-0"



8 WALL BASE DETAIL
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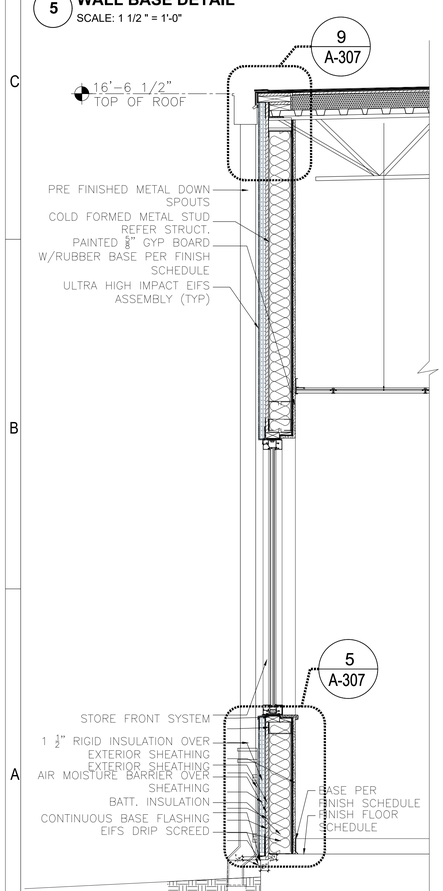

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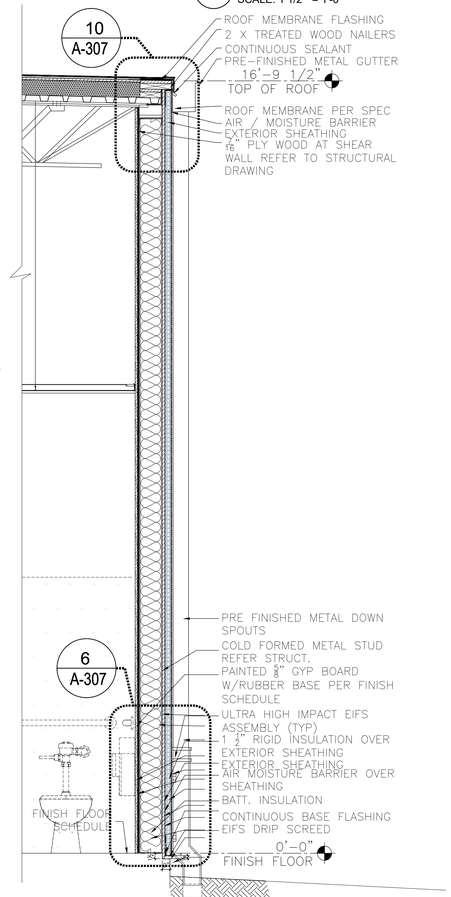

2 WALL SECTION
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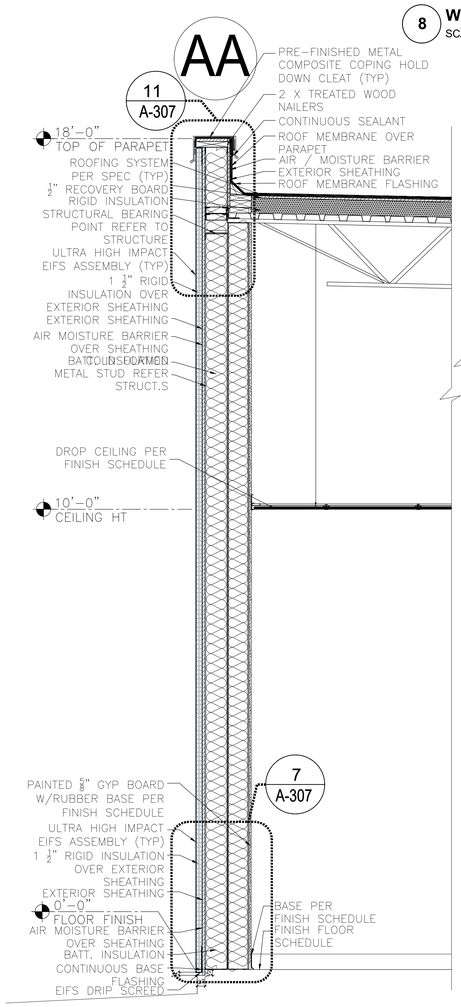

3 WALL SECTION
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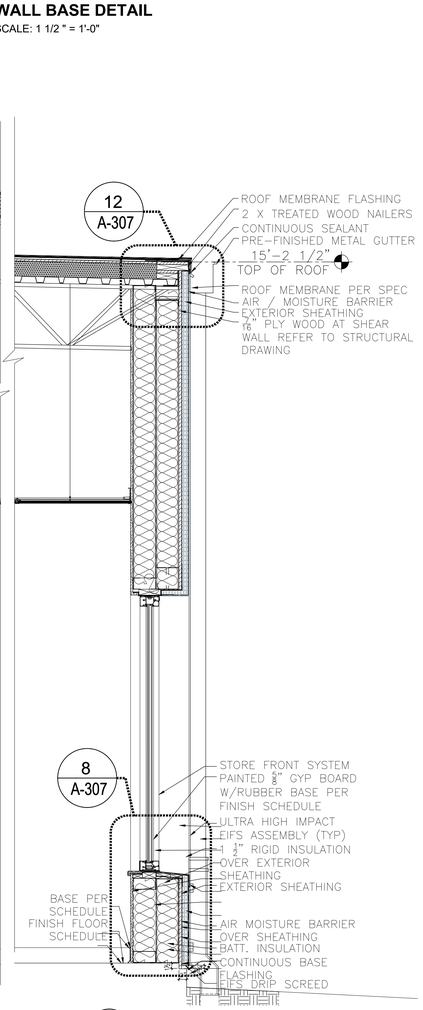

4 WALL SECTION
SCALE: 3/4" = 1'-0"

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KEYPLAN

Project Number: 24.23
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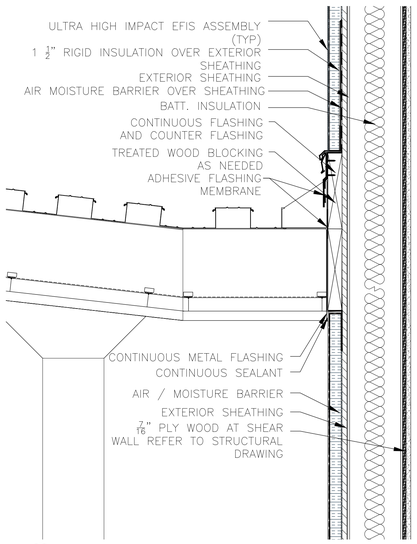
Revisions:

No.	Description	Date

Sheet Title:
WALL SECTIONS & DETAILS

A-307



6 PRE ENGINEERED CANOPY@ EXTERIOR FINISH
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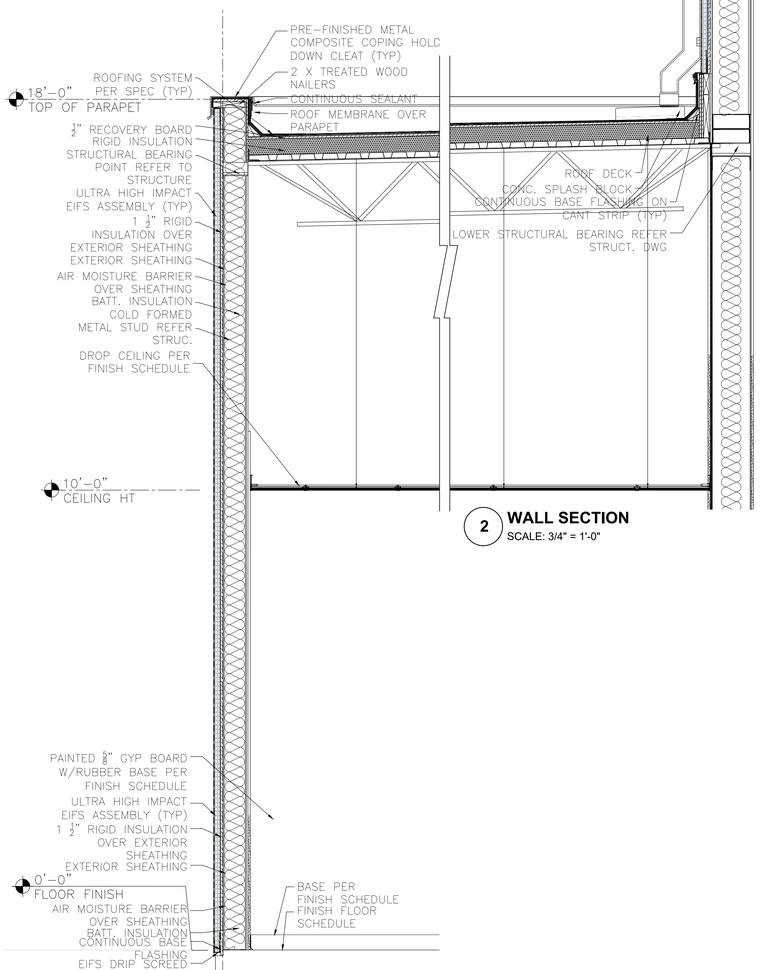
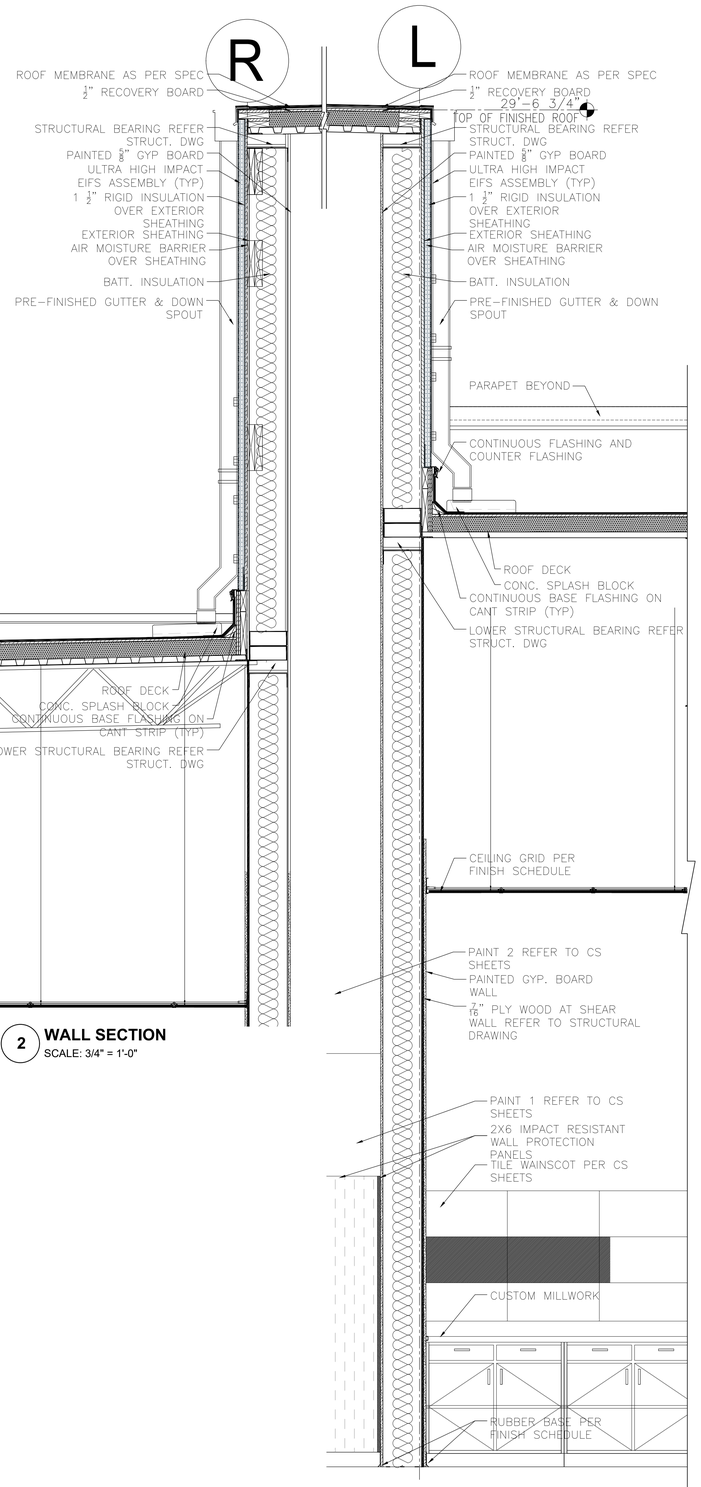
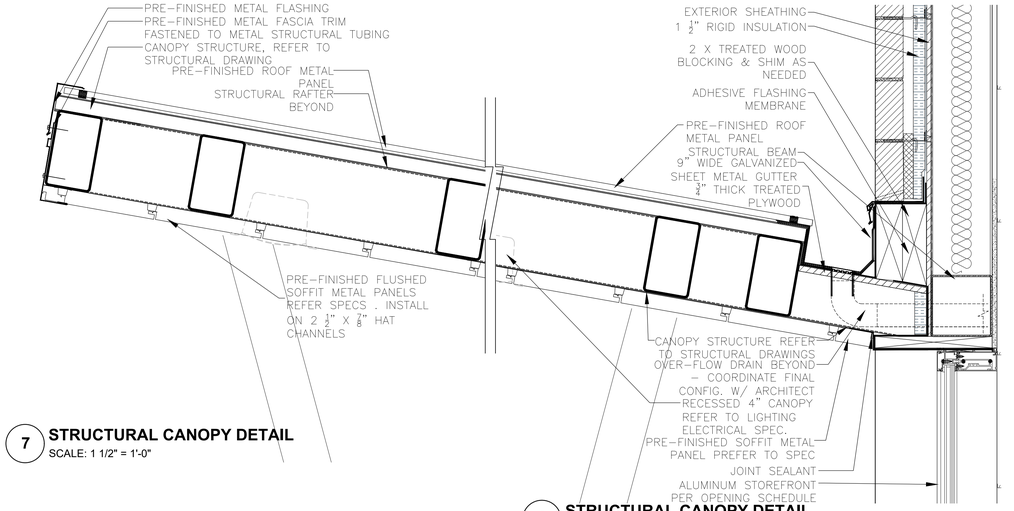


1 WALL SECTION
SCALE: 3/4" = 1'-0"

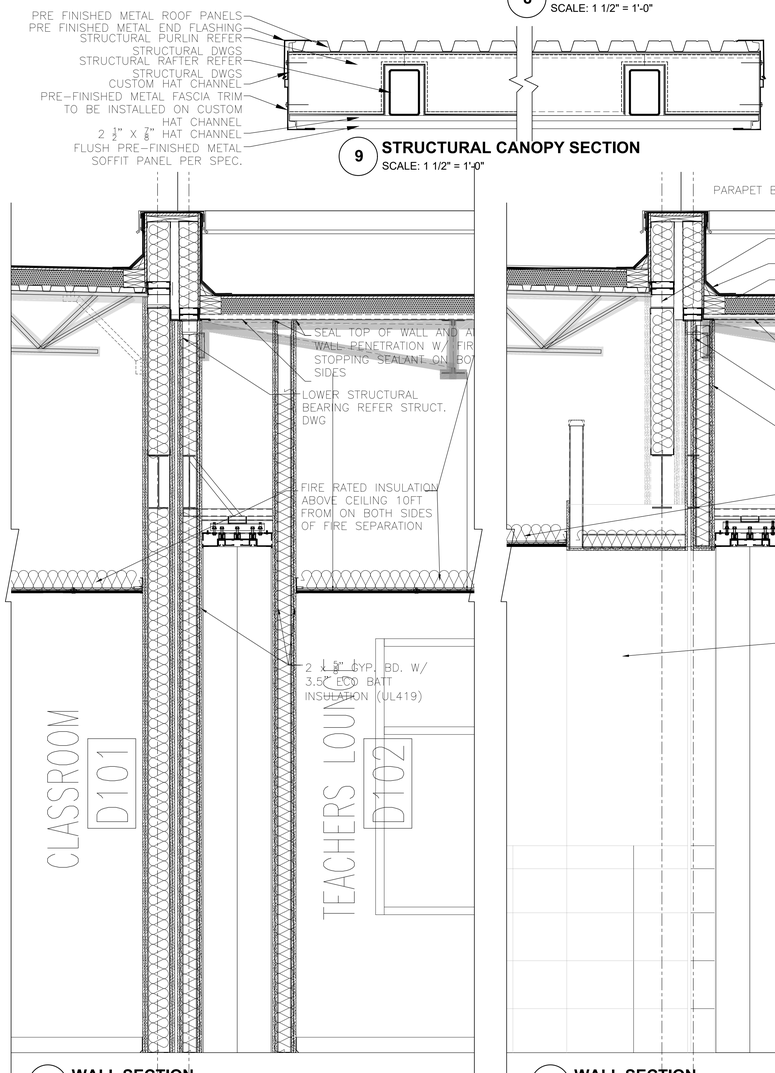
2 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



7 STRUCTURAL CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"



8 STRUCTURAL CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"

9 STRUCTURAL CANOPY SECTION
SCALE: 1 1/2" = 1'-0"

4 WALL SECTION
SCALE: 3/4" = 1'-0"

5 WALL SECTION
SCALE: 3/4" = 1'-0"

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F 361.884.4232
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T 956.365.4820
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3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
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LANDSCAPE AND IRRIGATION:
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Corpus Christi, TX 78413
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STRUCTURAL AND WINDSTORM:
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Harlingen, TX 78550
Phone: 956-428-4461
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Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
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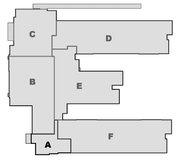
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6295 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

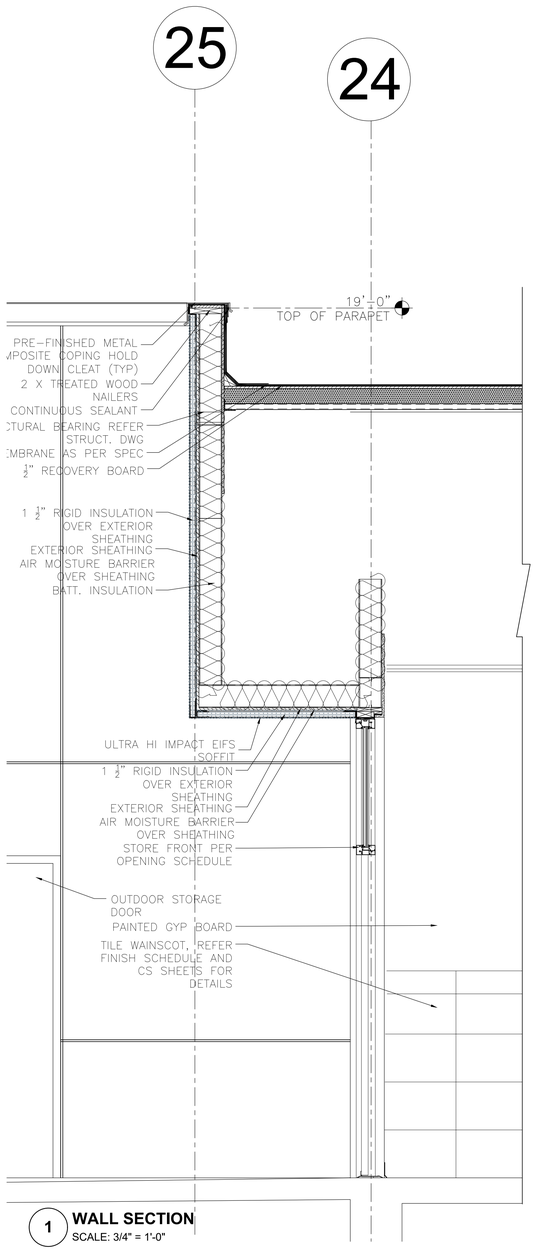
Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

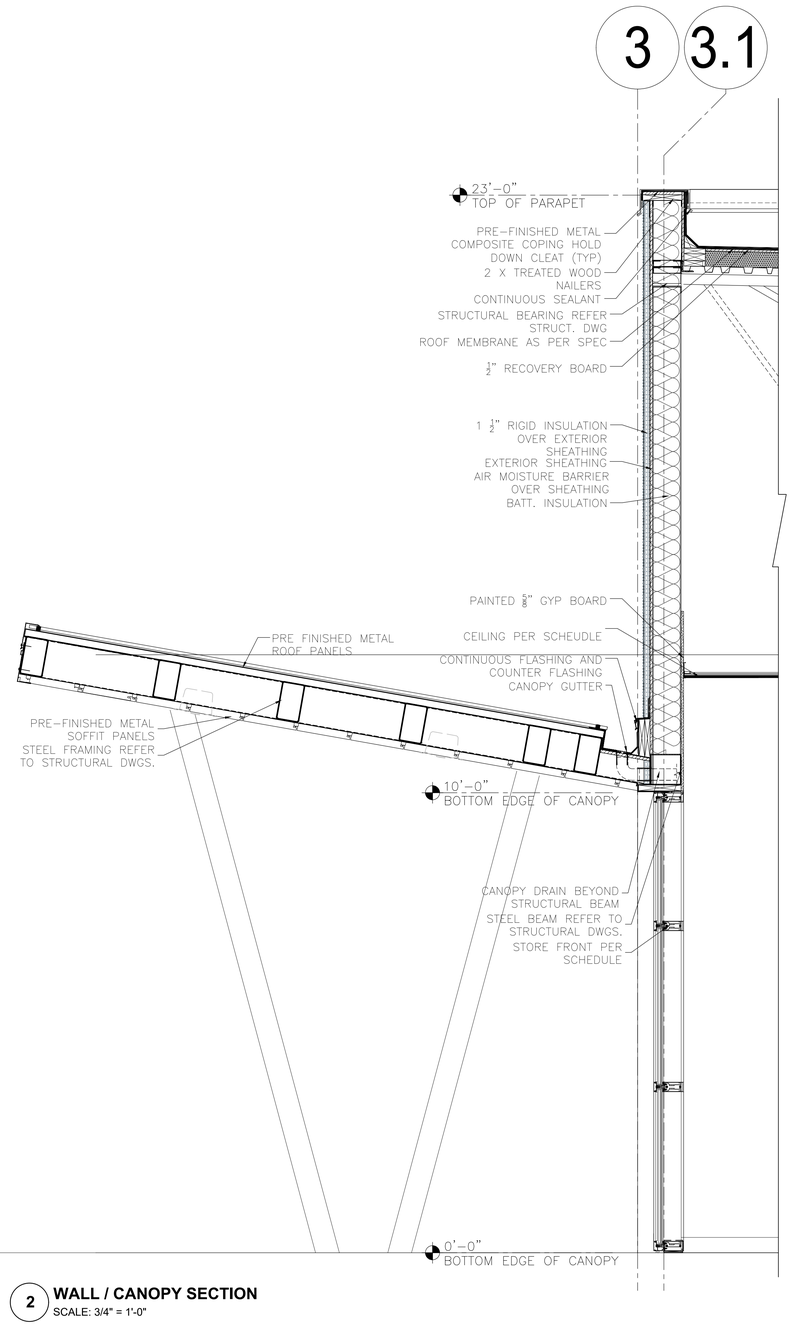
No.	Description	Date

Sheet Title:
WALL SECTIONS & DETAILS

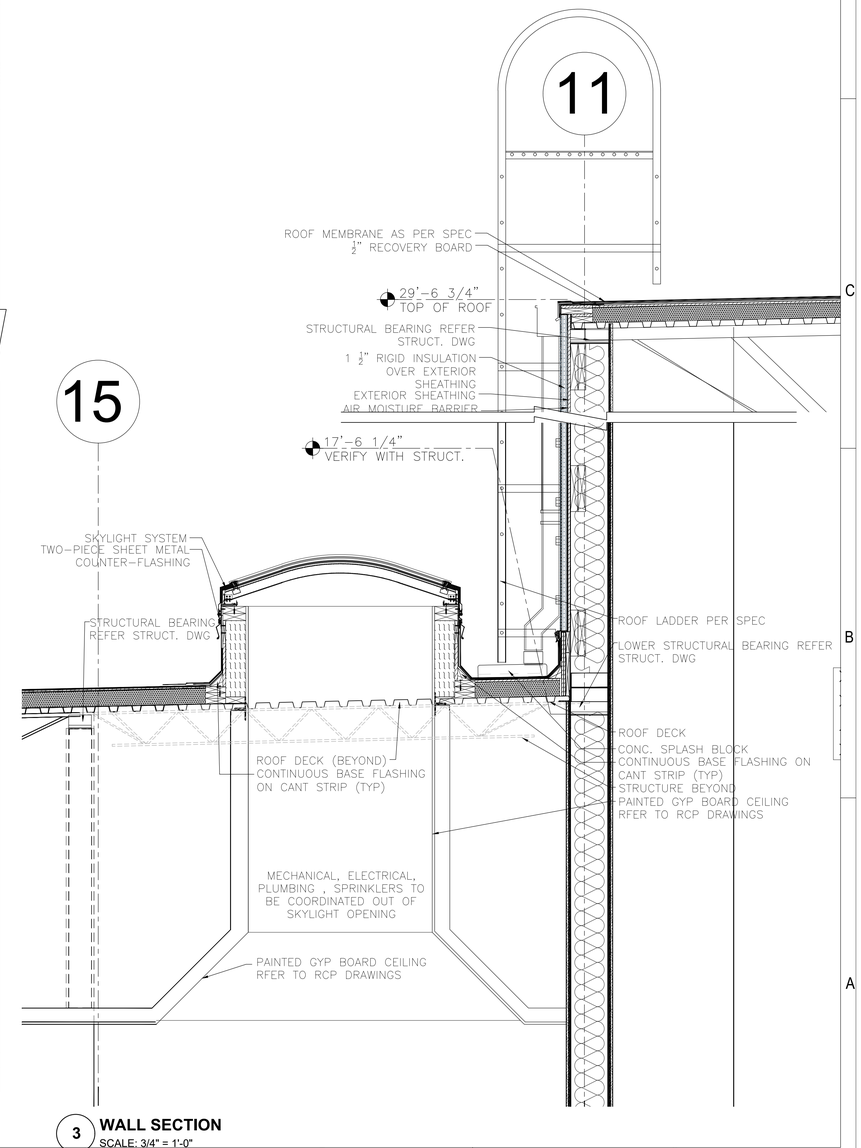
A-308



1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL / CANOPY SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"

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HARMONY PUBLIC SCHOOLS

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CITY PLACE
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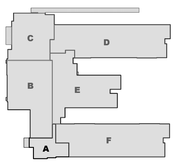
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

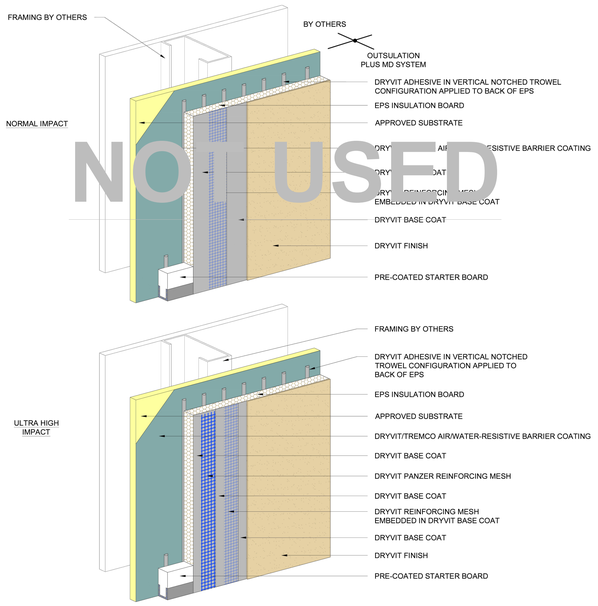
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
WALL SECTIONS & DETAILS

A-309



NOTE:
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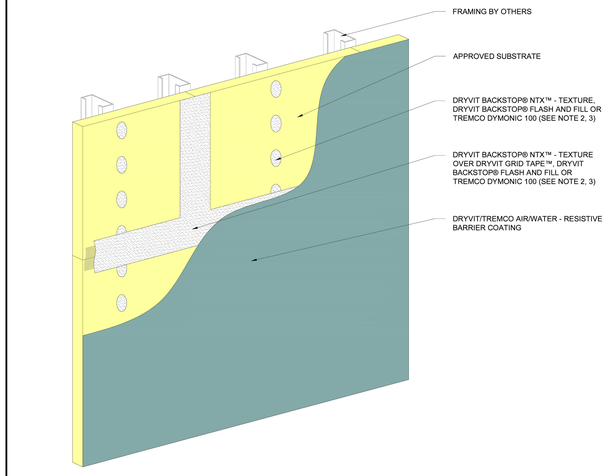
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Outsulation Plus MD System Starter Board Option				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 1a

Tremco Construction Products Group



NOTE:
1. FOR ADDITIONAL BACKSTOP® NTX™ DETAILS, REFER TO DRYVIT PUBLICATION DS840.

2. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

3. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NTX™.

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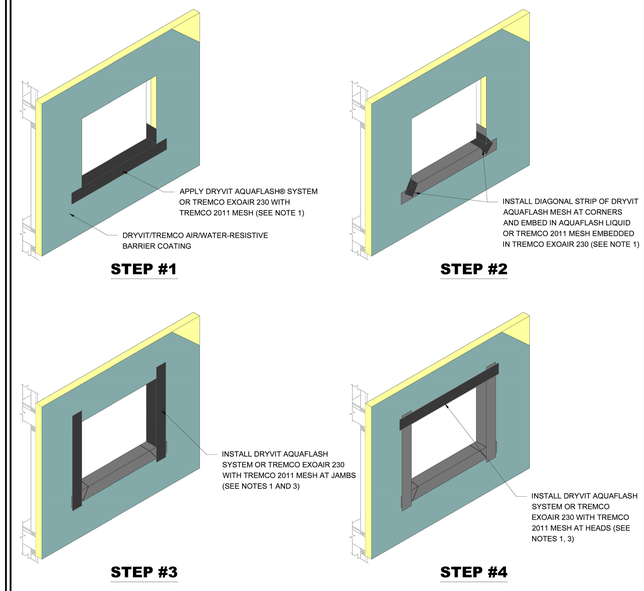
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Dryvit/Tremco AWRB Application				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 2

Tremco Construction Products Group



NOTE:
1. DRYVIT AQUAFLASH AND TREMCO EXOAIR 230 WITH MESH SHALL EXTEND TO INTERIOR FACE OF OPENING.

2. REFER TO HEAD, SILL AND JAMB DETAILS FOR FLASHING INTEGRATION.

3. INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE REQUIREMENTS AND PROJECT DOCUMENTS.

4. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

5. FOR ADDITIONAL BACKSTOP® NTX™ DETAILS, REFER TO DRYVIT PUBLICATION DS840.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Opening Preparation - Dryvit AquaFlash® System or Tremco ExoAir 230 with Mesh Option				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 3

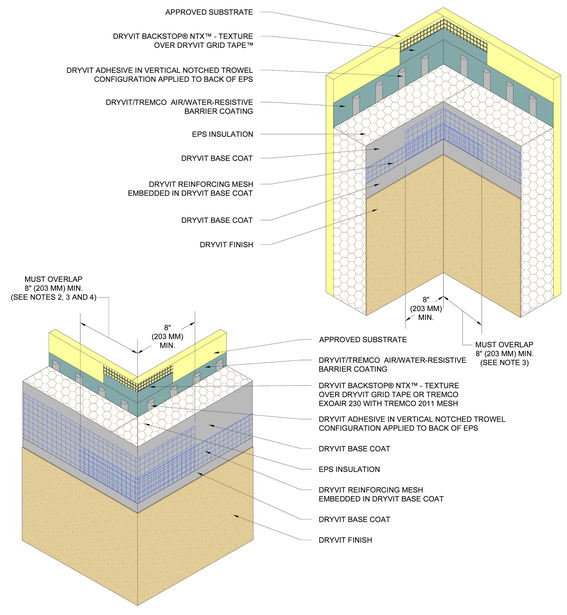
Tremco Construction Products Group

GENERAL NOTES:

THE DETAILS ON THIS SHEET ARE BASED ON THE OUTSULATION PLUS MD SYSTEM – ULTRA HIGH IMPACT – DRYVIT – TREMCO.

A. DETAILS ARE GENERIC DESCRIPTIONS OF SCOPE OF WORK INTENDED. MAKE MINOR ADJUSTMENTS AS REQUIRED TO FIT ACTUAL SITUATIONS ENCOUNTERED AT NO ADDITIONAL COST.

B. CONTRACTOR SHALL REVIEW AND COORDINATE WITH CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THERE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURERS PRINTED INSTRUCTIONS.



NOTE:
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2. DOUBLE WRAP OUTSIDE CORNERS WITH REINFORCING MESH OR USE CORNER MESH.

3. DO NOT LAP REINFORCING MESH WITHIN 8" (203 MM) OF A CORNER.

4. OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET.

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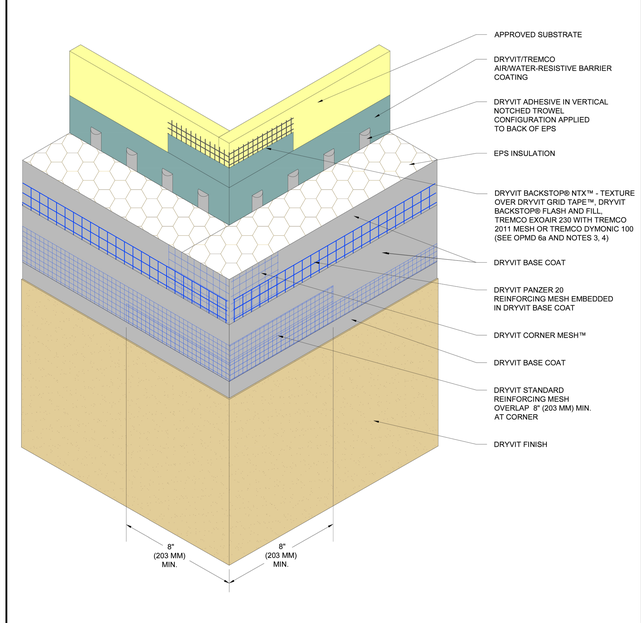
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Inside/Outside Corners				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 6

Tremco Construction Products Group



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2. OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET.

3. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

4. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NTX™.

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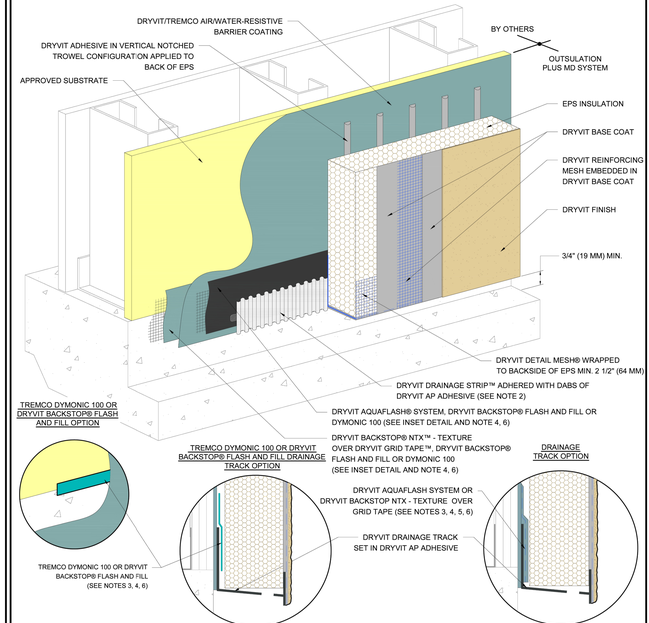
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Outside Corner - High Impact				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 7

Tremco Construction Products Group



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2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

3. LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.

4. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

5. DRYVIT DRAINAGE TRACK SHALL ONLY BE USED AT GRADE LEVEL TERMINATIONS.

6. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NTX™.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Termination at Concrete Curb				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 9

Tremco Construction Products Group

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REGISTERED ARCHITECT · RAYMOND D. GIGNAC · STATE OF TEXAS · 6356

EXPIRATION DATE 11/30/2026 | SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

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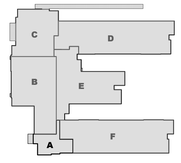


KEYPLAN

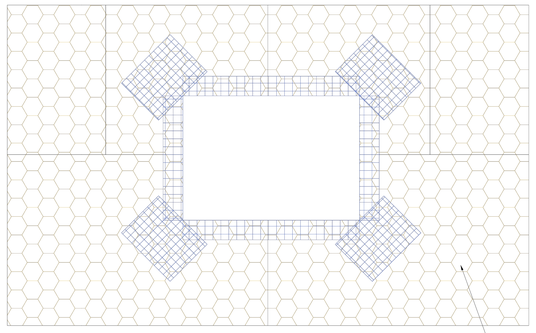
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

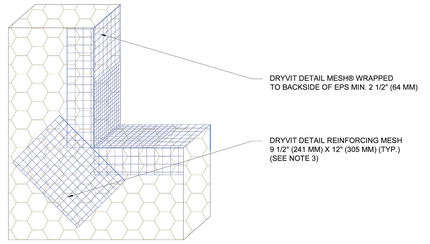
Revisions:

No.	Description	Date

Sheet Title:
TYPICAL EIFS DETAILS

A-310





NOTE:
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2. LOCATE INSULATION BOARDS SUCH THAT BOARD EDGES DO NOT ALIGN WITH CORNERS OF PENETRATION.

3. APPLY A PIECE OF 9 1/2" (241 MM) X 12" (305 MM) DETAIL REINFORCING MESH DIAGONALLY AT EACH CORNER.

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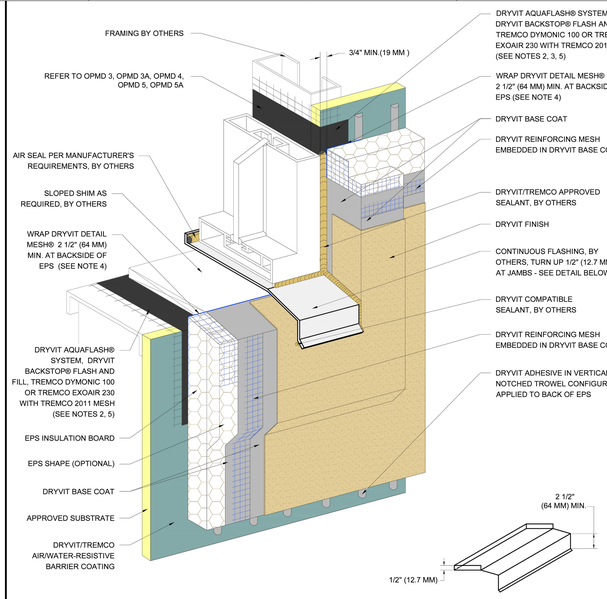
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752

Detail: EPS Preparation at Wall Penetrations				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 11

www.tremcocpg.com

Construction Products Group



SILL PAN FLASHING DETAIL

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2. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

3. DRYVIT BACKSTOP® NTX™ - TEXTURE OVER GRID TAPE™ IS AN ALTERNATIVE OPTION AT JAMB AND HEAD CONDITION PER DETAIL OPMD 04.

4. EDGE WRAPPING METHOD IS ACCEPTABLE AT SILL AND JAMB IN LIEU OF BACK WRAPPING. DRYVIT REINFORCING MESH MUST BE FULLY EMBEDDED IN DRYVIT BASE COAT AT EPS EDGE AND MUST EXTEND ONTO SUBSTRATE 2 1/2" (64 MM) MIN.

5. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NTX™.

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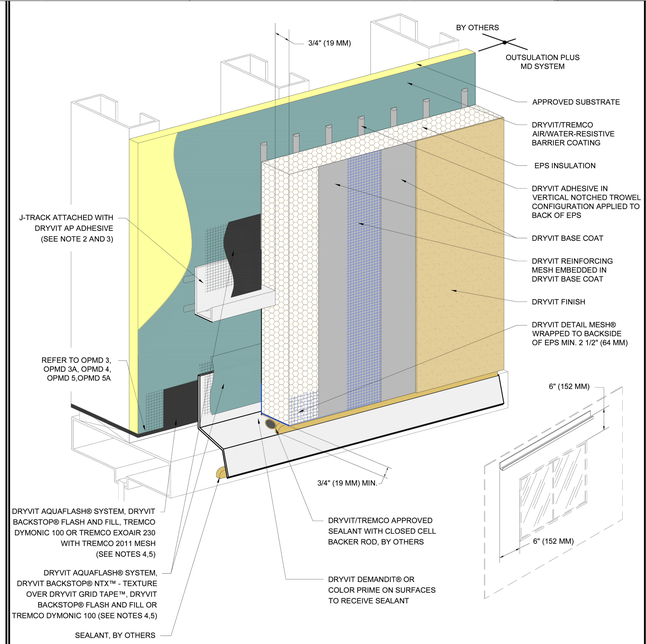
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752

Detail: Storefront Window Sill - Jamb				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 12

www.tremcocpg.com

Construction Products Group



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2. LIGHTLY SAND SURFACE OF J-TRACK TO MAXIMIZE ADHESION.

3. LENGTH OF TRACK NOT TO EXCEED 10 FT. (3.O M)

4. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

5. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NTX™.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752

Detail: Head J-Track Option				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 15

www.tremcocpg.com

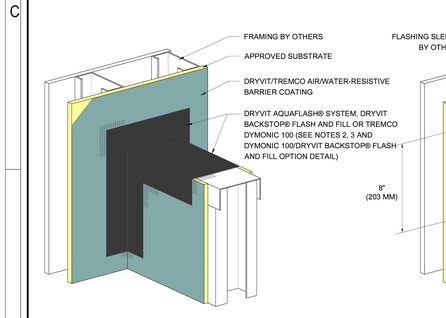
Construction Products Group

GENERAL NOTES:

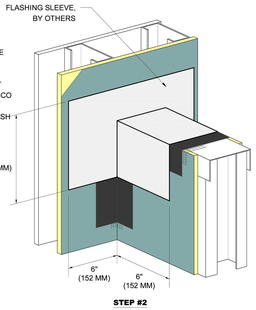
THE DETAILS ON THIS SHEET ARE BASED ON THE OUTSULATION PLUS MD SYSTEM – ULTRA HIGH IMPACT – DRYVIT – TREMCO

A. DETAILS ARE GENERIC DESCRIPTIONS OF SCOPE OF WORK INTENDED. MAKE MINOR ADJUSTMENTS AS REQUIRED TO FIT ACTUAL SITUATIONS ENCOUNTERED AT NO ADDITIONAL COST.

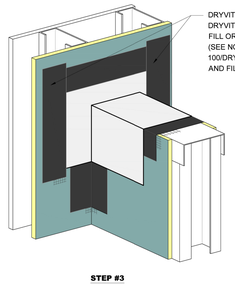
B. CONTRACTOR SHALL REVIEW AND COORDINATE WITH CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THERE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURERS PRINTED INSTRUCTIONS.



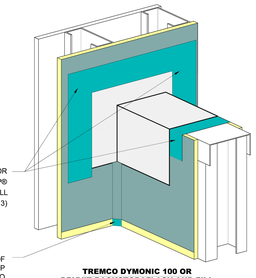
STEP #1



STEP #2



STEP #3



TREMCO DYMONIC 100 OR DRYVIT BACKSTOP® FLASH AND FILL OPTION

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

3. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NTX™.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752

Detail: Preparation at Parapet/Wall Intersection				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 18

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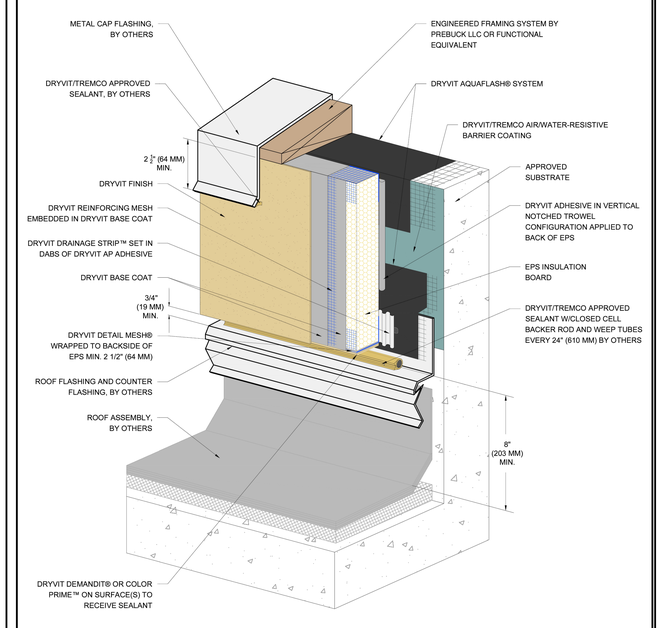
Construction Products Group



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2. EDGE WRAPPING METHOD IS ACCEPTABLE IN LIEU OF BACK WRAPPING. DRYVIT REINFORCING MESH MUST BE FULLY EMBEDDED IN DRYVIT BASE COAT AT EPS EDGE AND EXTEND ONTO SUBSTRATE 2 1/2" (64 MM) MIN.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752

Detail: Termination at Parapet - Solid Substrate				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 1/2022	OPMD 20

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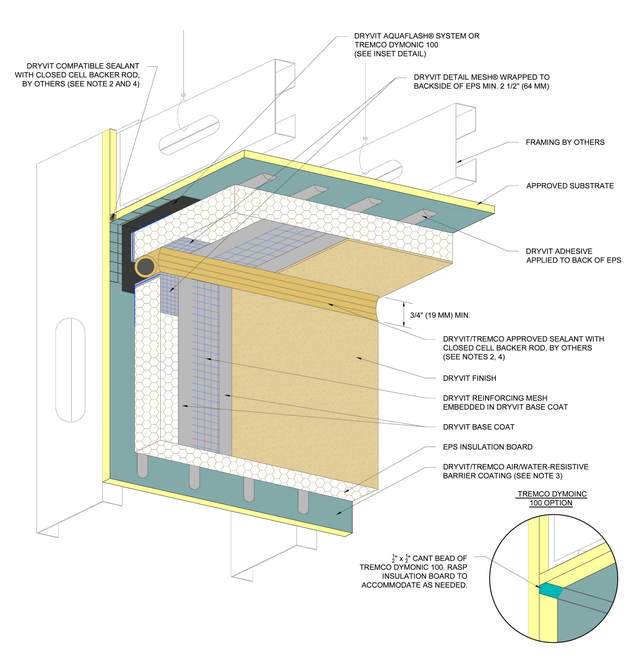
Construction Products Group



NOTE:
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2. DRYVIT DEMANDIT® OR COLOR PRIME™ ON SURFACES TO RECEIVE SEALANT.

3. DRYVIT/TREMCO AIR/WATER-RESISTIVE BARRIER IS REQUIRED OVER VERTICAL SUBSTRATES. APPLICATION OVER HORIZONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS REQUIRED AS PART OF A CONTINUOUS AIR BARRIER SYSTEM.

4. SEALANT JOINT IS REQUIRED FOR SUSPENDED SOFFITS. OPTIONAL FOR RIGIDLY FRAMED.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752

Detail: Vertical Wall/Suspended Soffit Transition				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 23

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Construction Products Group

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Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

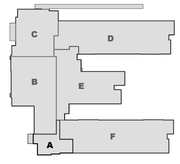
REGISTERED ARCHITECT
RAYMOND G. GIGNAC
STATE OF TEXAS
6356

EXPIRATION DATE 11/30/2026

SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

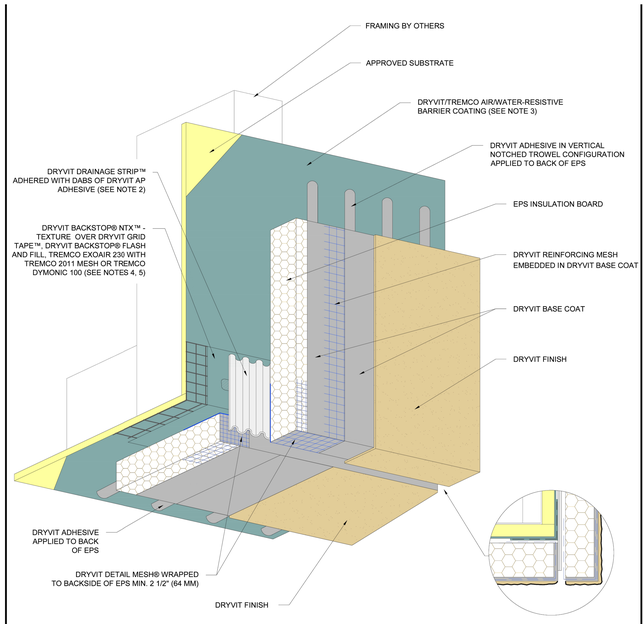
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
TYPICAL EIFS DETAILS

A-311



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2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

3. DRYVIT/TREMCO AIR/WATER-RESISTIVE BARRIER IS REQUIRED OVER VERTICAL SUBSTRATES, APPLICATION OVER HORIZONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS REQUIRED AS PART OF A CONTINUOUS AIR BARRIER SYSTEM.

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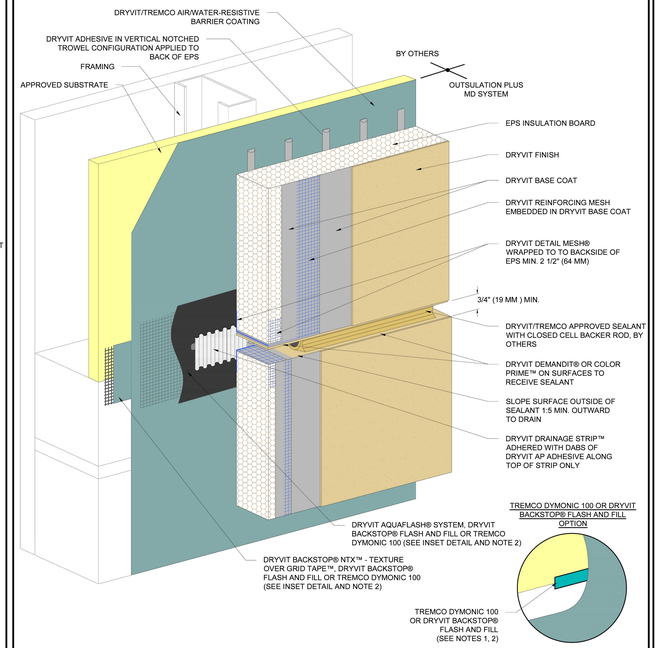
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Transition at Soffit/Fascia Intersection				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 24

TREMCO Construction Products Group



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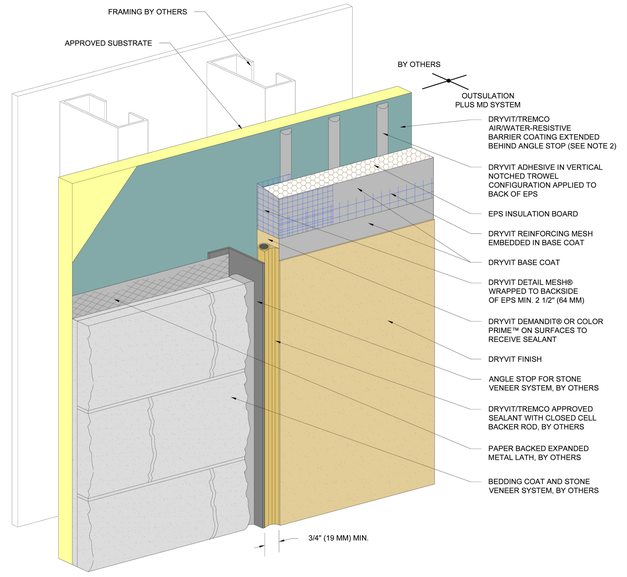
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Horizontal Joint - Substrate Change				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 29

TREMCO Construction Products Group



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2. FOR INSTALLATION OF BACKSTOP® NTX™ BENEATH CLADDINGS OTHER THAN DRYVIT EIFS, REFER TO DRYVIT PUBLICATION DS840.

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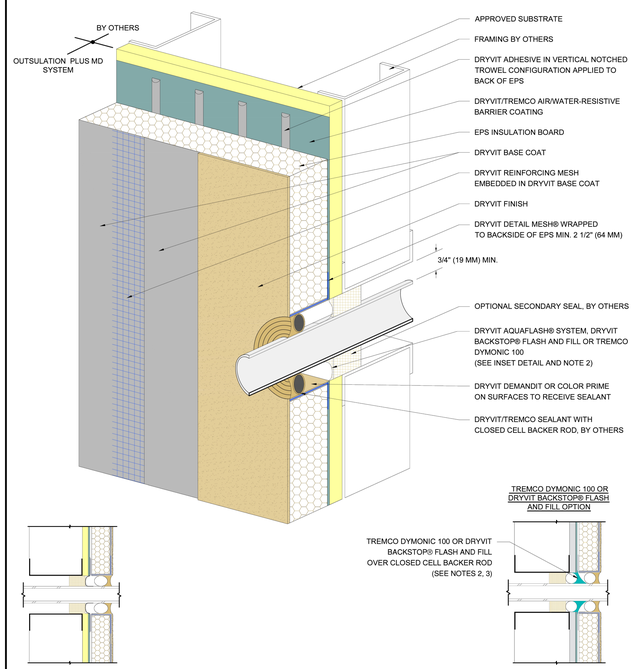
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Vertical Termination at Stone Veneer				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 38

TREMCO Construction Products Group



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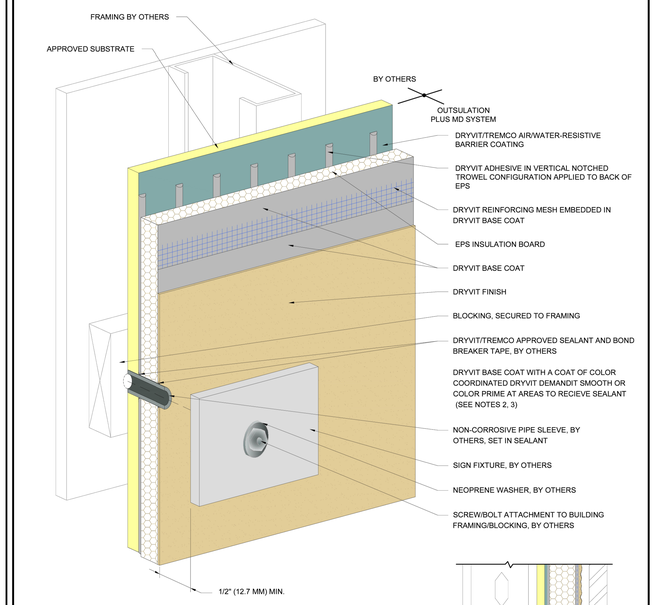
Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Penetrations				File Name:
Drawn by: KAB	Checked by: CB	Scale: NTS	Date: 2/2022	OPMD 39

TREMCO Construction Products Group



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2. PERIMETER OF PIPE SLEEVE IS SEALED TO PREVENT WATER ENTRY INTO WALL.

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Outsulation® Plus MD System®

Dryvit Technical Support: 800-556-7752 | www.tremcocpg.com

Detail: Sign Attachment				File Name:
Drawn by: KAB	Checked by: CW	Scale: NTS	Date: 11/2023	OPMD 40

TREMCO Construction Products Group

GENERAL NOTES:

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Boerne, TX 78006
Phone: 210-698-7887

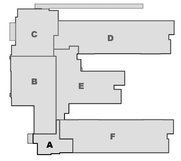
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 23295 STATE OF TEXAS

EXPIRATION DATE 11/30/2026 | SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

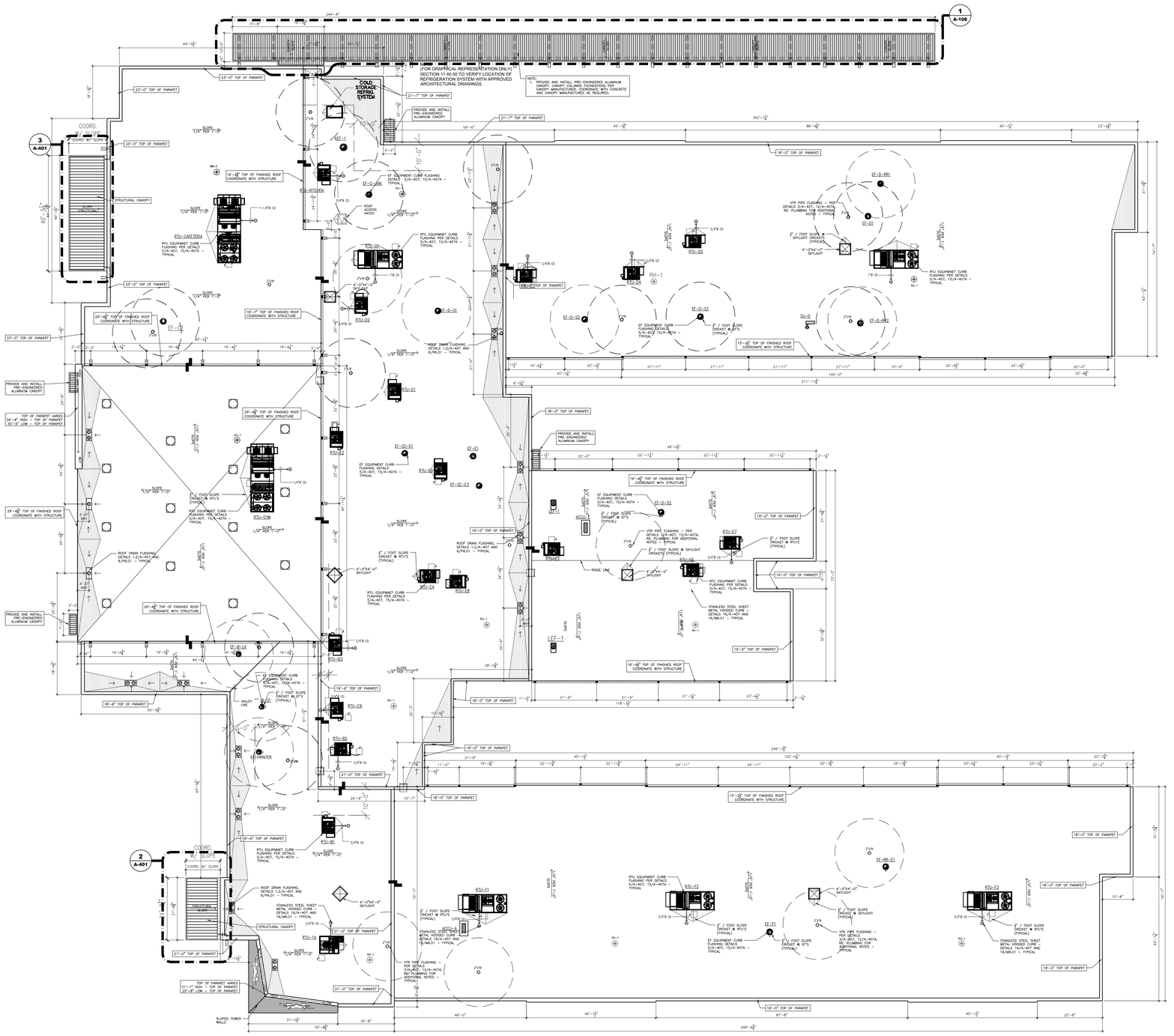
Revisions:

No.	Description	Date

Sheet Title:

TYPICAL EIFS DETAILS

A-312



GENERAL PLAN NOTES:

1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, MEP & STRUCTURAL PLANS TO ASCERTAIN EXACT CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE AND NRCA STANDARDS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN ON THESE ROOF PLAN AND ROOF DETAILS ARE FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION ARE RESPONSIBILITY OF THE SUBCONTRACTOR TO CONFIRM AND GENERAL CONTRACTOR TO COORDINATE.
3. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER, SEE ROOF PLAN AND NOMENCLATURE.
4. MINIMUM SLOP ALLOWANCE ON THE ROOF SHALL BE NO LESS THAN $\frac{1}{4}$" PER FOOT. CRICKET UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" WIDE.
5. ALL NEW CRICKET AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISH $\frac{1}{4}$" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPED SIDE OF ALL SQUARE CURBS AND PROJECTIONS.
6. ALL PIPING/CONDUITS/ETC. SHALL BE A MIN. 12" ABOVE ROOF SURFACE. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS. COORDINATE TYPE THE MEP DRAWINGS. MEP CONTRACTOR SHALL PROVIDE SUPPORTS FOR NEW LINES.
7. PROVIDE 22 GA. STAINLESS STEEL, 2D FINISH, TREATED WOOD CURB AND BOX HOOD AT ALL WATER/ELECTRICAL LINE ROOF PENETRATIONS (RE: GENERAL DETAILS)
8. ISOLATED ALL HEAT PIPE/FLUES AS RECOMMENDED & OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING. (RE: GENERAL DETAILS)
9. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF NEW DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
10. PROVIDE WALKWAY PROTECTION PADS AROUND ALL ROOF HATCHES, ROOF MOUNTED EQUIPMENT, AND LADDERS (TOP & BOTTOM)
11. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS, COORDINATE WITH PLUMBING.
12. GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS (EQUIPMENT, SOIL STACKS, ETC.) ARE INSTALLED MIN. 2'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE.
13. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.
14. LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR).
15. PERIMETER ROOF DRAINS AT GYMNASIUM SHOULD BE LOCATED MAXIMUM 4'-0" FROM FINISHED EDGE TO ALLOW MINIMUM CRICKET BACK SLOPE AT LOCATIONS WITH NO OVERFLOW ROOF DRAINS.
16. UPON SUBSTANTIAL COMPLETION THE GENERAL CONTRACTOR SHALL EXAMINE AND ENSURE DRAIN LINES, GUTTERS AND DOWNSPOUTS ARE FREE OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY, WHERE APPLICABLE.
17. REFER TO SHEET A-407 AND A-408 FOR SLOPING CANOPIES AND PRE-ENGINEERED CANOPIES LAYOUT AND DETAILS.

LEGEND:

- AREA OF TAPERED INSULATION – INDICATES INTENT OF POSITIVE DRAINAGE TO GUTTER/DOWSNPOUTS/ROOF DRAINS
- INDICATES INTENDED DIRECTION OF WATER DRAINAGE
- PRE-FINISHED SHEET METAL DOWNSPOUT AND GUTTER ASSEMBLY – TIED INTO UNDERGROUND STORM DRAIN PIPING – TYPICAL
- PRE-FINISHED SHEET METAL DOWNSPOUT AND GUTTER ASSEMBLY – PROVIDE A CONCRETE SPLASH BLOCK AT EACH LOCATION AS INDICATED (PROVIDE ADDITIONAL ROOF MEMBRANE LAYER, PER ROOF MANUFACTURER RECOMMENDATIONS)
- ALTERNATE BID ITEM – TUBULAR DAYLIGHTING DEVICE
- SKYLIGHT RE: DETAILS X/A-XX AND X/A-XX

ROOF SYSTEM SCHEDULE

SCOPE OF WORK

INSTALL THE SPECIFIED PRODUCTS AND SYSTEMS AT THE FOLLOWING AREAS:

ROOF AREAS "A", "B", "C", "D", "E" AND "F":

- SBS MODIFIED BITUMEN MEMBRANE WITH ULTRA-WHITE SURFACING SYSTEM INSTALLED BY HOT ASPHALT APPLICATION AS SPECIFIED (OVER)
- BASE SHEET AS SPECIFIED (HOT ASPHALT APPLICATION TO)
- COVER BOARD AS SPECIFIED FASTENED TO METAL DECK
- POLYISOCYANURATE ROOFING INSULATION AS SPECIFIED (FASTENED TO)
- METAL DECK AS SPECIFIED (OVER)
- SLOPED STRUCTURE AND LEVEL STRUCTURE

ALTERNATE No. 1: TUBULAR DAYLIGHTING DEVICES

SCOPE OF WORK

- CONTRACTOR TO PROVIDE AND INSTALL A TOTAL OF 15(FIFTEEN) TUBULAR DAYLIGHTING DEVICES AND ACCESSORIES IN THE GYMNASIUM.
- CONTRACTOR TO PROVIDE A MANUFACTURER "DAYLIGHTING CALCULATIONS STUDY" TO BEST LOCATE THE DAYLIGHTING DEVICES.
- CONTRACTOR TO REFER TO DETAIL 9/A-404 TUBULAR DAYLIGHTING DEVICE ROOF CURB DETAIL.

ALTERNATE No. 2: ROOFING SYSTEM

SCOPE OF WORK

INSTALL THE SPECIFIED PRODUCTS AND SYSTEMS AT THE FOLLOWING AREAS:

ROOF AREAS "A", "B", "C", "D", "E" AND "F" :

- TPO ROOF MEMBRANE INSTALLED BY FULLY ADHERED **80ML**
- COVER BOARD AS SPECIFIED AND FASTENED TO METAL DECK
- POLYISOCYANURATE ROOFING INSULATION AS SPECIFIED (FASTENED TO)
- METAL DECK AS SPECIFIED (OVER)
- SLOPED STRUCTURE AND LEVEL STRUCTURE

REFER TO DETAILS ON SHEET A-404B

ALTERNATE No. 3: ROOFING SYSTEM

SCOPE OF WORK

INSTALL THE SPECIFIED PRODUCTS AND SYSTEMS AT THE FOLLOWING AREAS:

ROOF AREAS "A", "B", "C", "D", "E" AND "F":

- TPO ROOF MEMBRANE INSTALLED BY FULLY ADHERED **60ML**
- COVER BOARD AS SPECIFIED AND FASTENED TO METAL DECK
- POLYISOCYANURATE ROOFING INSULATION AS SPECIFIED (FASTENED TO)
- METAL DECK AS SPECIFIED (OVER)
- SLOPED STRUCTURE AND LEVEL STRUCTURE

REFER TO DETAILS ON SHEET A-404B

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PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379

KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

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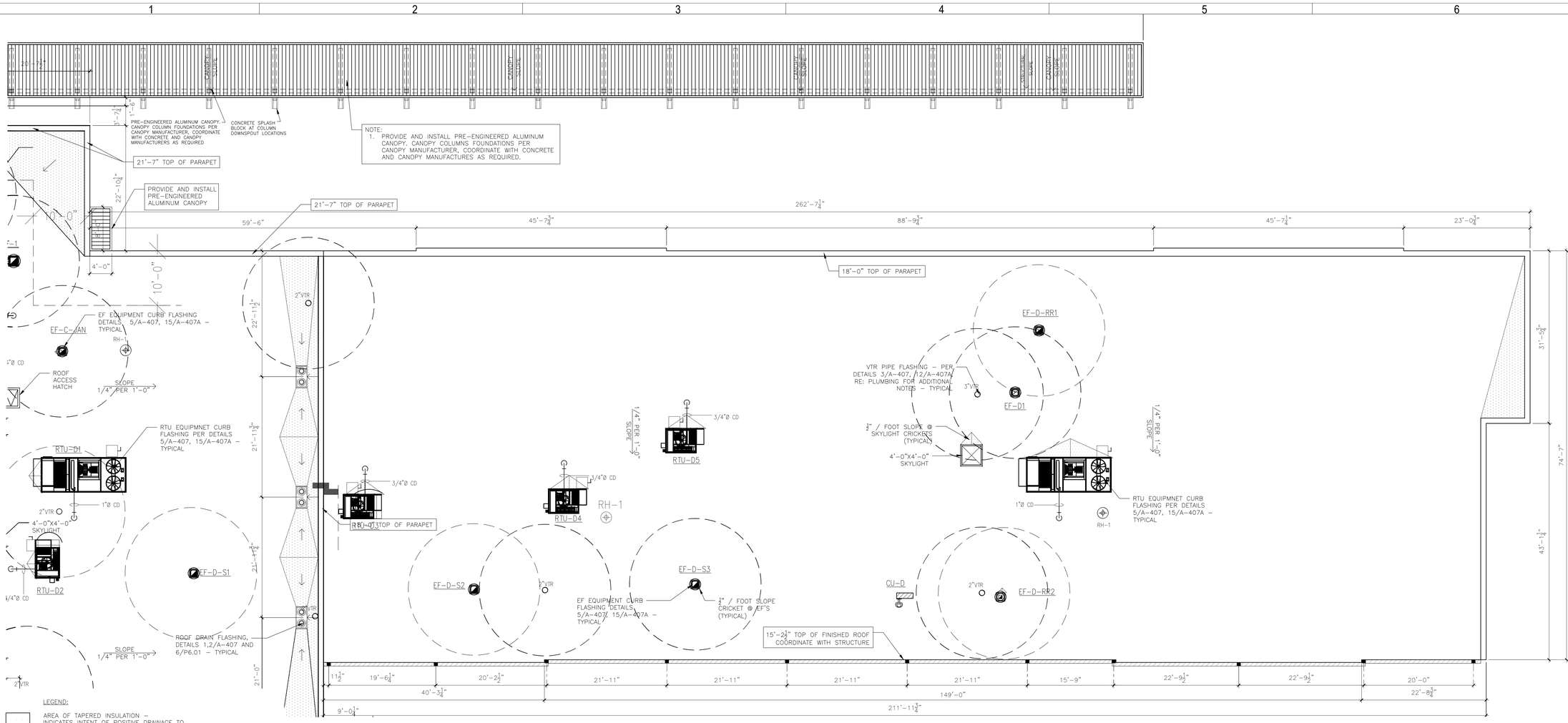
No.	Description	Date

Sheet Title:
OVERALL ROOF PLAN

A-400



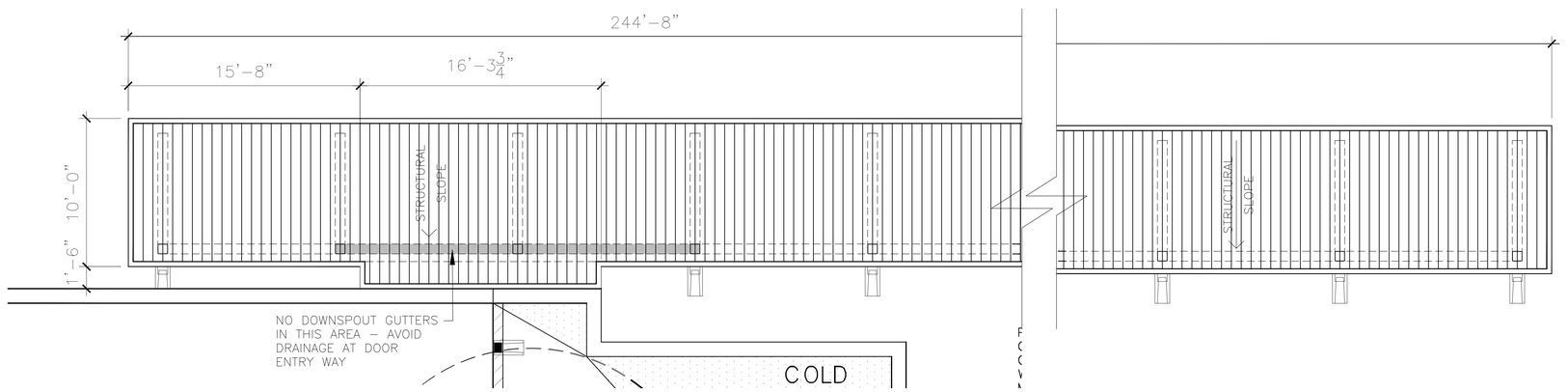
LEGEND:

- AREA OF TAPERED INSULATION – INDICATES INTENT OF POSITIVE DRAINAGE TO GUTTER/DOWSNPOUTS/ROOF DRAINS
- INDICATES INTENDED DIRECTION OF WATER DRAINAGE
- PRE-FINISHED SHEET METAL DOWNSPOUT AND GUTTER ASSEMBLY – TIED INTO UNDERGROUND STORM DRAIN PIPING – TYPICAL
- PRE-FINISHED SHEET METAL DOWNSPOUT AND GUTTER ASSEMBLY – PROVIDE A CONCRETE SPLASH BLOCK AT EACH LOCATION AS INDICATED (PROVIDE ADDITIONAL ROOF MEMBRANE LAYER, PER ROOF MANUFACTURER RECOMMENDATIONS)
- ALTERNATE BID ITEM – TUBULAR DAYLIGHTING DEVICE DETAIL 9/A-407
- SKYLIGHT RE: DETAILS 4/A-407
- ROOF DRAIN AND OVERFLOW ROOF DRAIN RE: SHEET A-407 AND PLUMBING DRAWINGS

GENERAL PLAN NOTES:

1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, MEP & STRUCTURAL PLANS TO ASCERTAIN EXACT CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE AND NRCA STANDARDS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN ON THESE ROOF PLAN AND ROOF DETAILS ARE FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION ARE RESPONSIBILITY OF THE SUBCONTRACTOR TO CONFIRM AND GENERAL CONTRACTOR TO COORDINATE.
3. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER, SEE ROOF PLAN AND NOMENCLATURE.
4. MINIMUM SLOP ALLOWANCE ON THE ROOF SHALL BE NO LESS THAN 1/4" PER FOOT. CRICKET UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" WIDE.
5. ALL NEW CRICKET AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISH 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPED SIDE OF ALL SQUARE CURBS AND PROJECTIONS.
6. ALL PIPING/CONDUITS/ETC. SHALL BE A MIN. 12" ABOVE ROOF SURFACE. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS. COORDINATE TYPE THE MEP DRAWINGS. MEP CONTRACTOR SHALL PROVIDE SUPPORTS FOR NEW LINES.
7. PROVIDE 22 GA. STAINLESS STEEL, 2D FINISH, TREATED WOOD CURB AND BOX HOOD AT ALL WATER/ELECTRICAL LINE ROOF PENETRATIONS (RE: GENERAL DETAILS)
8. ISOLATED ALL HEAT PIPE/FLUES AS RECOMMENDED & OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING. (RE: GENERAL DETAILS)
9. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF NEW DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
10. PROVIDE WALKWAY PROTECTION PADS AROUND ALL ROOF HATCHES, ROOF MOUNTED EQUIPMENT, AND LADDERS (TOP & BOTTOM)
11. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS, COORDINATE WITH PLUMBING.
12. GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS (EQUIPMENT, SOIL STACKS, ETC.) ARE INSTALLED MIN. 2'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE.
13. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.
14. LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR).
15. PERIMETER ROOF DRAINS AT GYMNASIUM SHOULD BE LOCATED MAXIMUM 4'-0" FROM FINISHED EDGE TO ALLOW MINIMUM CRICKET BACK SLOPE AT LOCATIONS WITH NO OVERFLOW ROOF DRAINS.
16. UPON SUBSTANTIAL COMPLETION THE GENERAL CONTRACTOR SHALL EXAMINE AND ENSURE DRAIN LINES, GUTTERS AND DOWNSPOUTS ARE FREE OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY, WHERE APPLICABLE.
17. REFER TO SHEET A-407 AND A-408 FOR SLOPING CANOPIES AND PRE-ENGINEERED CANOPIES LAYOUT AND DETAILS.

1 PLAN TRUE **PARTIAL ROOF PLAN - AREA - D**
1/8"=1'-0"



2 PLAN TRUE **CANOPY AT STUDENDT DROP-OFF / PICK UP AREA**
1/8"=1'-0"

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REGISTERED ARCHITECT RAYMOND C. GIGNAC 23255 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

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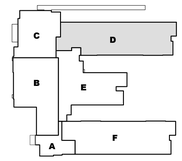

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL ROOF PLAN - AREA - D

A-404

LEGEND:

AREA OF TAPERED INSULATION – INDICATES INTENT OF POSITIVE DRAINAGE TO GUTTER/DOWSNPOUTS/ROOF DRAINS

INDICATES INTENDED DIRECTION OF WATER DRAINAGE

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SKYLIGHT
RE: DETAILS 4/A-407

ROOF DRAIN AND OVERFLOW ROOF DRAIN
RE: SHEET A-407 AND PLUMBING DRAWINGS

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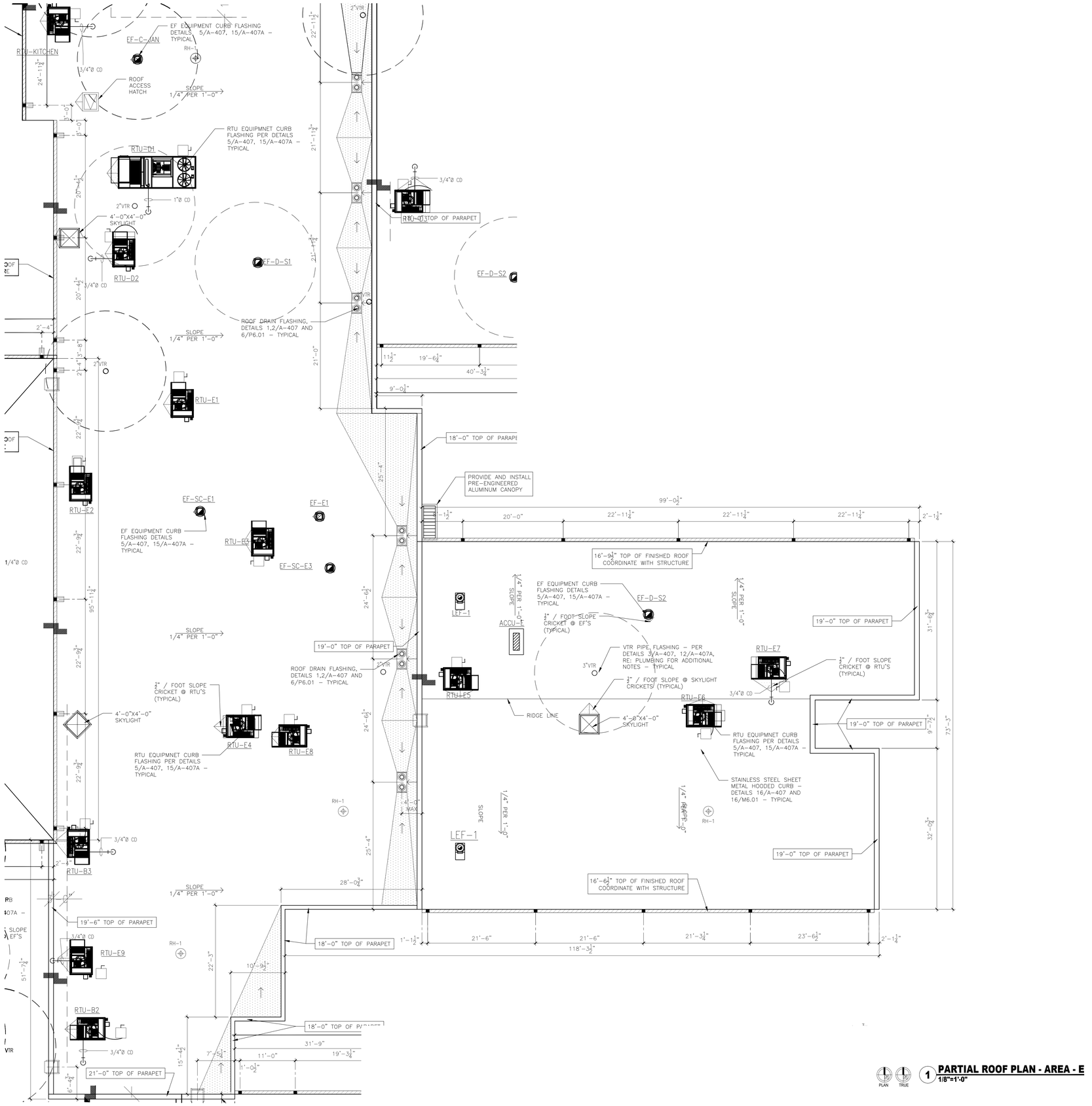

1 PLAN 1 TRUE **PARTIAL ROOF PLAN - AREA - E**
1/8"=1'-0"

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REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 8238

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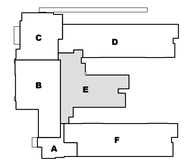

KEYPLAN

Project Number: 24.23
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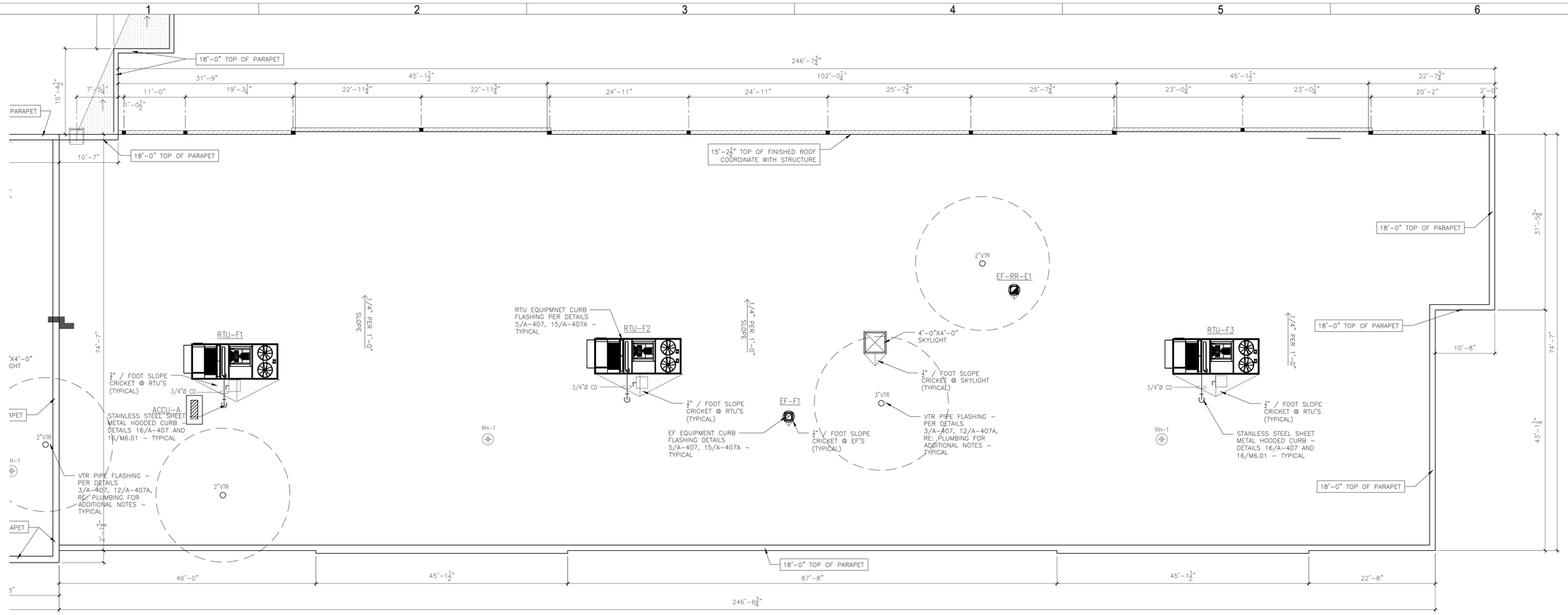
Revisions:

No.	Description	Date

Sheet Title:
PARTIAL ROOF PLAN - AREA - E

A-405



1 PARTIAL ROOF PLAN - AREA - F
1/8"=1'-0"

LEGEND:

AREA OF TAPERED INSULATION – INDICATES INTENT OF POSITIVE DRAINAGE TO GUTTER/DOWSNPOUTS/ROOF DRAINS

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RE: DETAILS 4/A–407

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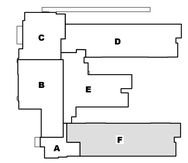

KEYPLAN

Project Number: 24.23
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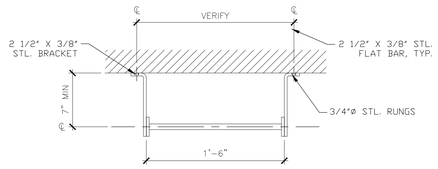
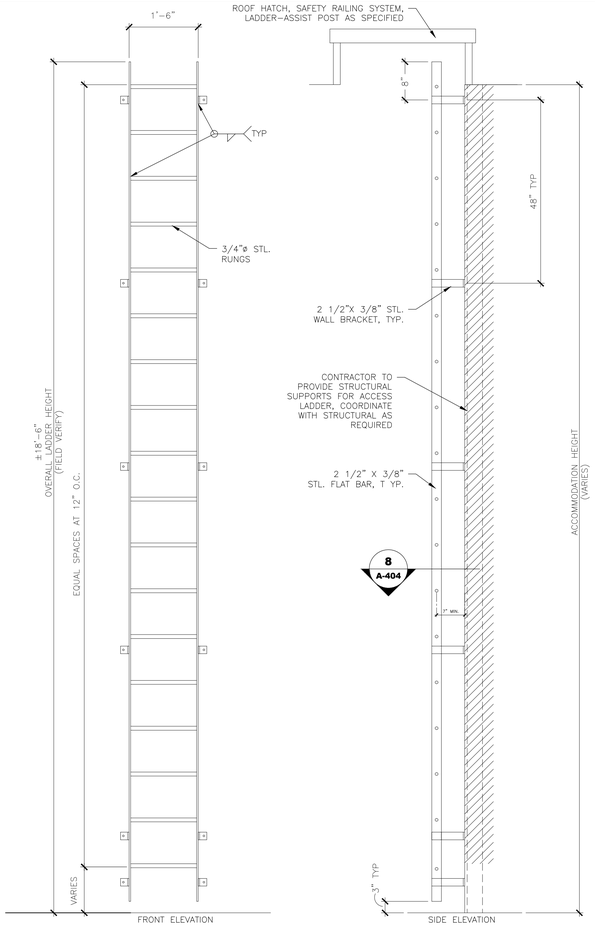
Sheet Title:
PARTIAL ROOF PLAN - AREA - F

A-406



8 RUNG ASSEMBLY DETAIL
SCALE: 1 1/2" = 1'-0"



7 BUILDING SECTION
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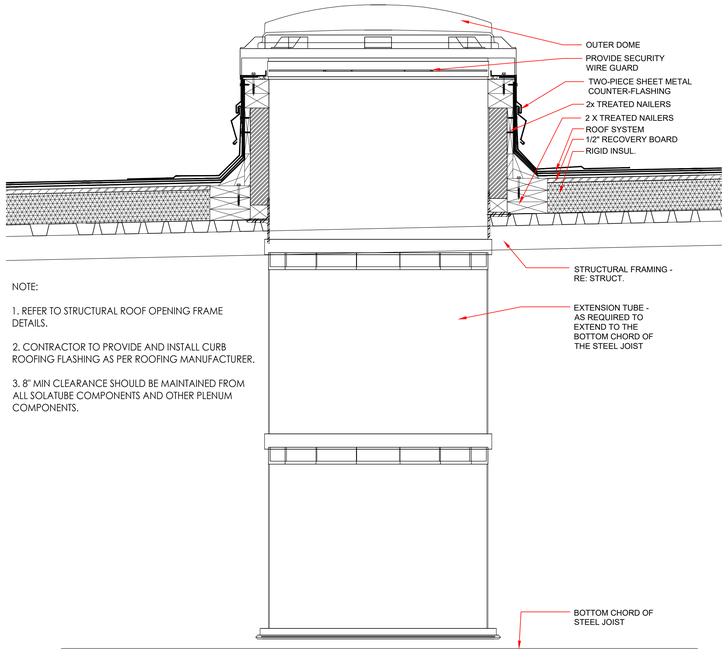


NOTE:

1. REFER TO STRUCTURAL ROOF OPENING FRAME DETAILS.

2. CONTRACTOR TO PROVIDE AND INSTALL CURB ROOFING FLASHING AS PER ROOFING MANUFACTURER.

3. 8" MIN CLEARANCE SHOULD BE MAINTAINED FROM ALL SOLATUBE COMPONENTS AND OTHER PLENUM COMPONENTS.

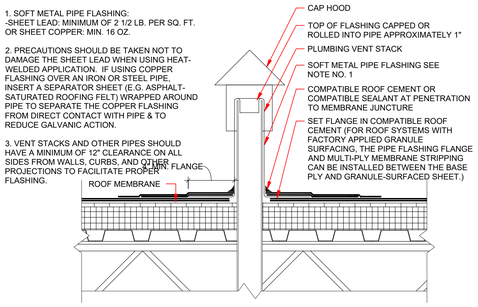
9 ALTERNATE NO. 1 - TUBULAR DAYLIGHTING CURB DETAILS
SCALE: 1 1/2" = 1'-0"

NOTES:

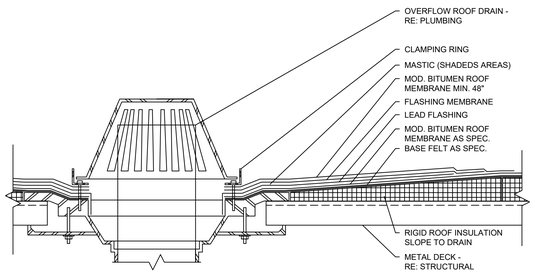
1. SOFT METAL PIPE FLASHING:
-SHEET LEAD: MINIMUM OF 2 1/2 LB. PER SQ. FT.
OR SHEET COPPER: MIN. 16 OZ.

2. PRECAUTIONS SHOULD BE TAKEN NOT TO DAMAGE THE SHEET LEAD WHEN USING HEAT-WELDED APPLICATION. IF USING COPPER FLASHING OVER AN IRON OR STEEL PIPE, INSERT A SEPARATOR SHEET (E.G. ASPHALT-SATURATED ROOFING FELT) WRAPPED AROUND PIPE TO SEPARATE THE COPPER FLASHING FROM DIRECT CONTACT WITH PIPE & TO REDUCE GALVANIC ACTION.

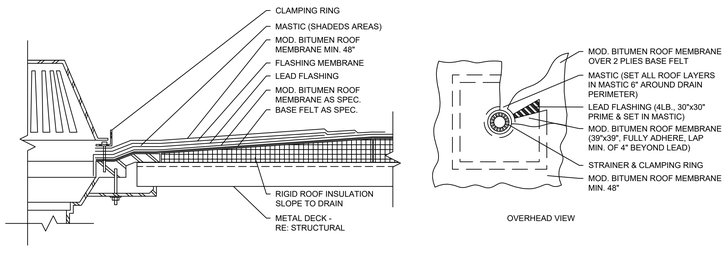
3. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12" CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.



3 PIPE PENETRATION
SCALE: 1 1/2" = 1'-0"



2 OVERFLOW ROOF DRAIN
SCALE: 1 1/2" = 1'-0"



1 ROOF DRAIN
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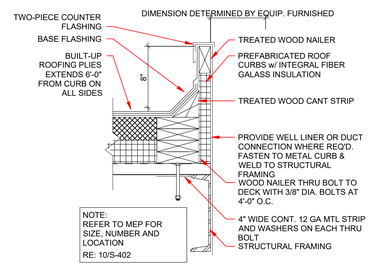
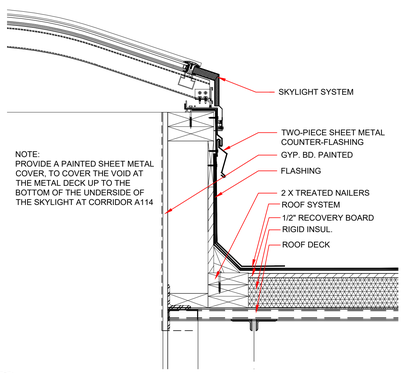
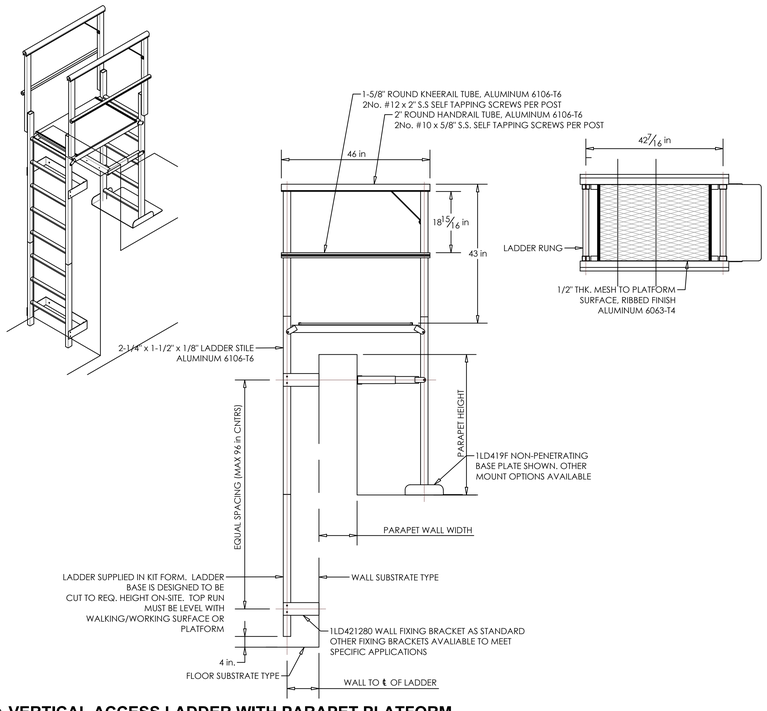


5 ROOF CURB
SCALE: 1 1/2" = 1'-0"



4 SKYLIGHT
SCALE: 1 1/2" = 1'-0"



6 VERTICAL ACCESS LADDER WITH PARAPET PLATFORM
N.T.S.

GIGNAC | ARCHITECTS
TBAE - BR 1221
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Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
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Harlingen, TX 78550
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Phone: 210-698-7887

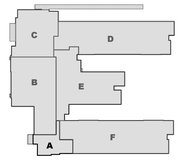
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 23245 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

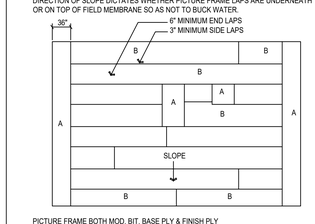
Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

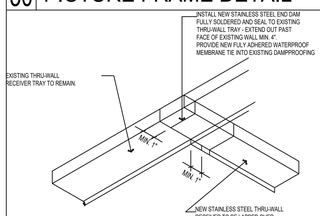
No.	Description	Date

Sheet Title:
ROOF DETAILS

A-407

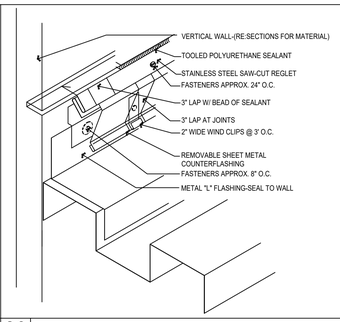


30 PICTURE FRAME DETAIL



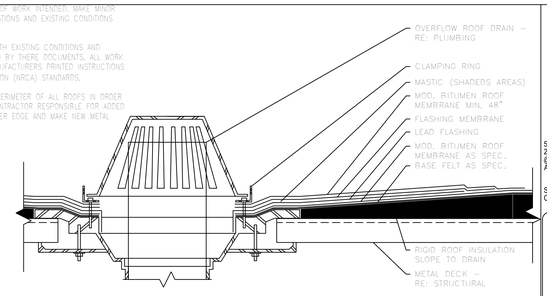
29 SAW CUT REGLET

07M-WF03.dwg NTS



27 OVERFLOW ROOF DRAIN

SCALE: 1 1/2" = 1'-0"



GENERAL NOTE:

A. DETAILS ARE GENERIC DESCRIPTIONS OF SCOPE OF WORK INTENDED. MAKE MINOR ADJUSTMENTS AS REQUIRED TO FIT ACTUAL SITUATIONS AND EXISTING CONDITIONS ENCOUNTERED AT NO ADDITIONAL COST.

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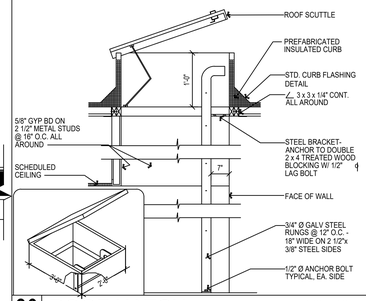
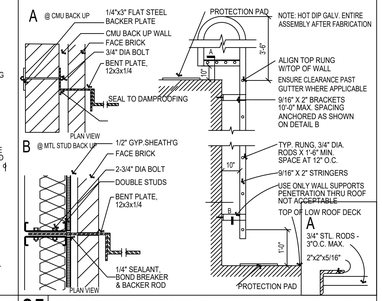
26 ROOF HATCH

07MC-LR01.dwg N.T.S.



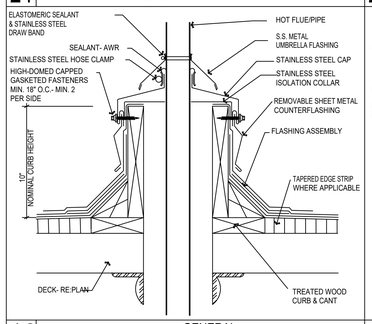
25 ROOF LADDER

07mc-lr05.dwg 1" = 1'-0"

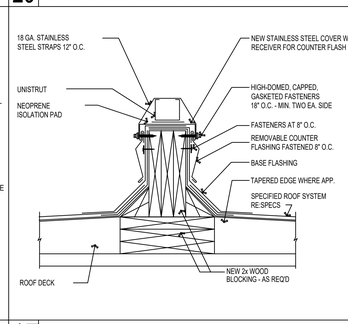


24 THRU-WALL TRAY

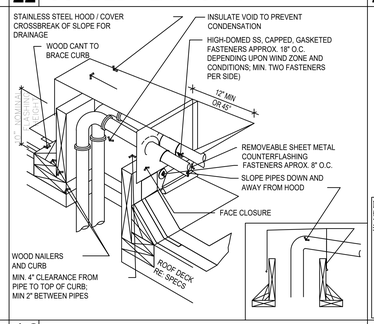
NTS



23 BRICK-PLASTER THRU-WALL TRANSITION

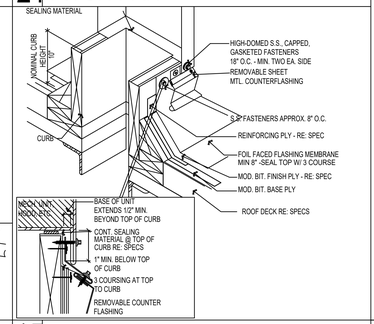


22 CURBED PLATFORM -



21 PITCH PAN

07M-FP01.dwg NTS



18 HOT STACK - GENERAL INFORMATION

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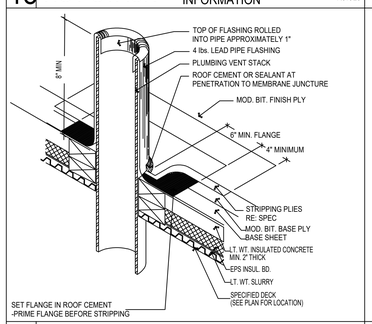

17 EQUIPMENT SUPPORT CURB

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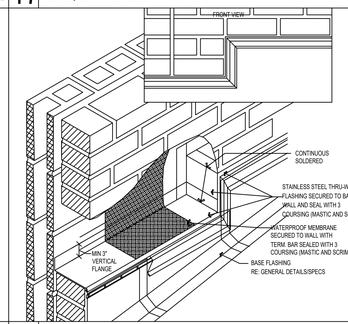

16 HOODED CURB

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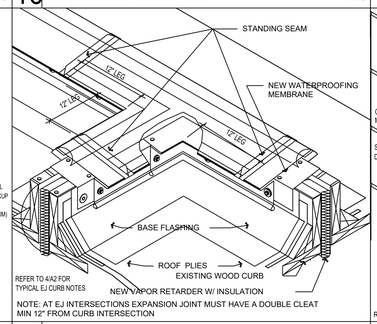
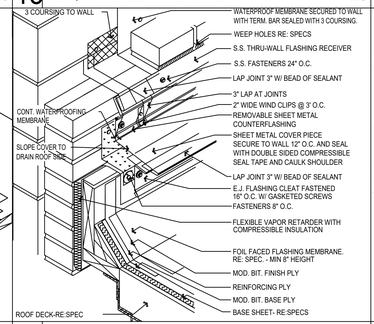


NOTE: AT EJ INTERSECTIONS EXPANSION JOINT MUST HAVE A DOUBLE CLEAT MIN 12" FROM CURB INTERSECTION

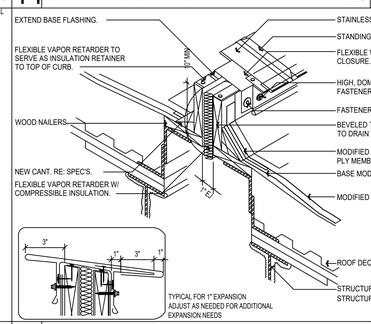
15 EQUIPMENT CURB

07M-CF01.dwg NTS



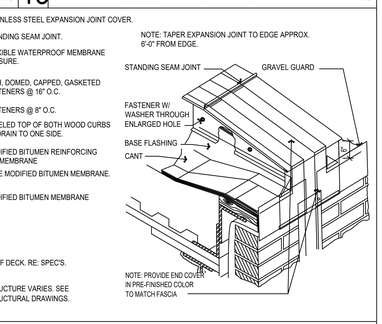
14 DRAIN DETAIL

NTS



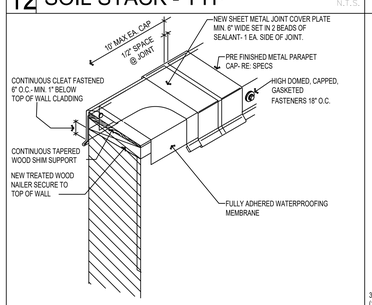
13 ROOF DECK SUPPORT

NTS



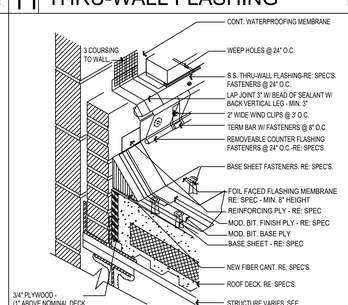
12 SOIL STACK - TYP

N.T.S.



11 THRU-WALL FLASHING

07MC-STF01.dwg NTS



10 EJ INTERSECTION

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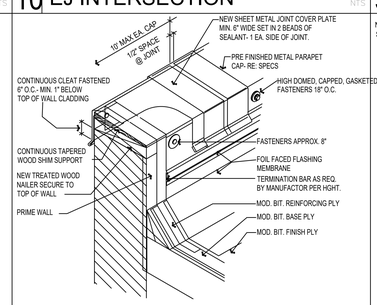
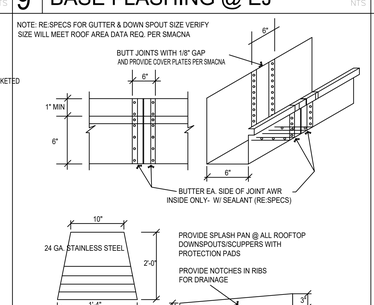


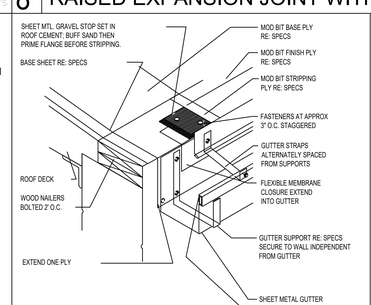
9 BASE FLASHING @ EJ

07M-EJ02.dwg NTS



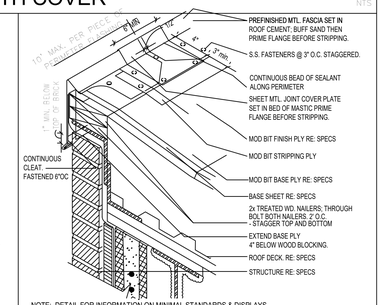
8 RAISED EXPANSION JOINT WITH COVER

NTS



7 ROOF EDGE W/ GUTTER

NTS



NOTE: DETAIL FOR INFORMATION ON MINIMAL STANDARDS & DISPLAYS GENERIC CONDITIONS IN RESPECT TO DECK, WALL AND STRUCTURE. REFER TO PLAN REFERENCED DETAILS FOR JOB SPECIFIC DETAILS.

6 COPING CAP

07M-WF16.dwg NTS

5 BASE FLASHING

07M-WF05.dwg NTS

4 PARAPET BASE & CAP

07M-WF02.dwg NTS

3 GUTTER JOINT

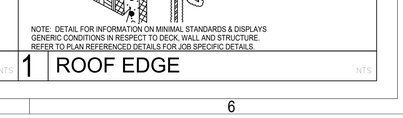
07MC-GJ01.dwg N.T.S.

2 ROOF EDGE W/ GUTTER

NTS

1 ROOF EDGE

NTS



PLAN VIEW

NOTE: INSTALL BRACING PRIOR TO INSTALLATION OF NEW EQUIPMENT CURBS. CONTRACTOR TO VERIFY DIMENSION 'X'. PROVIDE ANGLE SUPPORTS AT ALL EQUIPMENT CURBS



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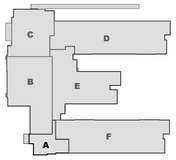


KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
ROOF DETAILS

A-407A

GENERAL NOTES:

A. THE DETAILS ON THIS SHEET ARE BASED ON THE BASIS OF DESIGN – CARLISLE SYNTEC SYSTEMS, SURE –WELD TPO.

B. DETAILS ARE GENERIC DESCRIPTIONS OF SCOPE OF WORK INTENDED. MAKE MINOR ADJUSTMENTS AS REQUIRED TO FIT ACTUAL SITUATIONS AND EXISTING CONDITIONS ENCOUNTERED AT NO ADDITIONAL COST.

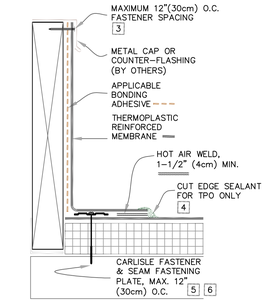
C. CONTRACTOR SHALL REVIEW AND COORDINATE WITH EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THERE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURERS PRINTED INSTRUCTIONS AND NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) STANDARDS.

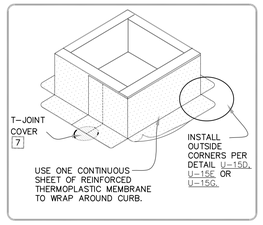
D. INSTALL ADDITIONAL TREATED WOOD NAILERS AT PERIMETER OF ALL ROOFS IN ORDER TO MEET NEW ROOFING INSULATION HEIGHTS. CONTRACTOR RESPONSIBLE FOR ADDED WOOD NAILERS TO ELIMINATE OFFSET AT PERIMETER EDGE AND MAKE NEW METAL EDGING FLUSH WITH FACE WALL / OR FASCIA.

THERMOPLASTIC MEMBRANE — PVC/TPO

NOTES:

1. WHEN USING TPO MEMBRANE, BONDING ADHESIVE IS NOT REQUIRED WHEN THE FLASHING HEIGHT IS 12" (30cm) OR LESS AND THE MEMBRANE IS FASTENED "AS SHOWN" ON TOP OF THE CURB. WHEN CARLISLE TERMINATION BAR IS USED BENEATH THE COUNTER–FLASHING, BONDING ADHESIVE CAN BE ELIMINATED WHEN THE MEMBRANE HEIGHT IS 18" (46cm) OR LESS.
2. APPLICABLE BONDING ADHESIVE FOR PVC OR TPO. IN CASE OF TPO, CAV–GRIP ADHESIVE MAY ALSO BE USED ON VERTICAL PORTION.
3. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER–FLASHING, USE EPDM WASHERS, APPLY WATER CUT–OFF MASTIC UNDER THE COUNTER–FLASHING OR CAULK THE FASTENER HEADS.
4. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT–EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.
5. REFER TO CARLISLE SPECIFICATIONS FOR ACCEPTABLE CARLISLE FASTENERS AND PLATES.
6. MECHANICAL SECUREMENT MAY BE INSTALLED INTO THE VERTICAL SUBSTRATE.
7. WHEN USING 60 MIL OR 80 MIL THICK CURB FLASHING, THE INTERSECTIONS BETWEEN SPLICES MUST OVERLAID WITH A THERMOPLASTIC "T–JOINT" COVER.





	CURB FLASHING WITH TPO OR PVC MEMBRANE	TP	DETAIL NO. U–5A
	MAXIMUM WARRANTY: 30 YEARS		THERMOPLASTIC UNIVERSAL

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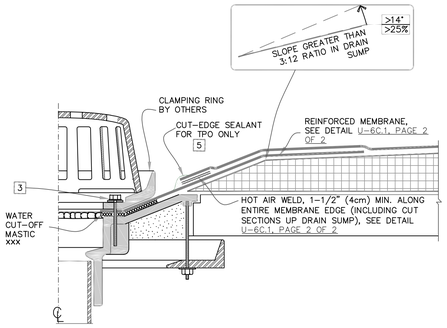
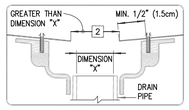
THERMOPLASTIC MEMBRANE — PVC/TPO



NOTES:

1. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES.
2. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" (1.5cm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
3. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT–OFF MASTIC.
4. REMOVE EXISTING LEAD, FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.
5. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT–EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.



	ROOF DRAIN (DRAIN SUMP GREATER THAN 3 INCHES TO 1 HORIZONTAL FOOT) – OPTION 2, PAGE 1 OF 2	TP	DETAIL NO. U–6C
	MAXIMUM WARRANTY: 30 YEARS		THERMOPLASTIC UNIVERSAL

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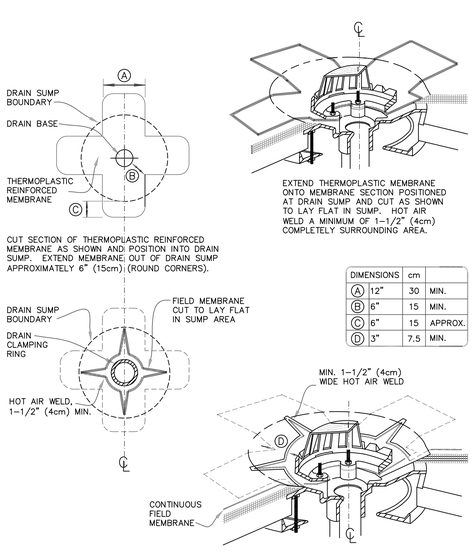
THERMOPLASTIC MEMBRANE — PVC/TPO



DIMENSIONS	cm	
A 12"	30	MIN.
B 6"	15	MIN.
C 6"	15	APPROX.
D 3"	7.5	MIN.

	ROOF DRAIN (DRAIN SUMP GREATER THAN 3 INCHES TO 1 HORIZONTAL FOOT) – OPTION 2, PAGE 2 OF 2	TP	DETAIL NO. U–6C.1
	MAXIMUM WARRANTY: 30 YEARS		THERMOPLASTIC UNIVERSAL

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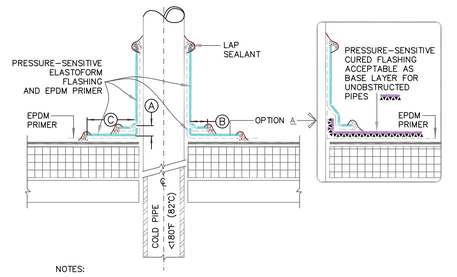
THERMOSET MEMBRANE — EPDM



NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD–FABRICATED FLASHING.
2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C).
3. ACCEPTABLE WITH SQUARE OR RECTANGULAR STRUCTURAL TUBING WITH ROUNDED CORNERS UP TO 12"(30cm). USE DETAIL U–5 IF GREATER THAN 12" (30cm).
4. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE–SENSITIVE ELASTOFORM OR CURED FLASHING.
5. ON MECHANICALLY FASTENED ROOFING SYSTEMS. REFER TO DETAIL MF–8B.
6. MEMBRANE SECUREMENT IS REQUIRED AROUND ALL ROUND PIPE PENETRATIONS GREATER THAN 18" (46cm) IN DIAMETER.

DIMENSIONS	cm	
A 1/2"	1.5	MIN.
B 1"	2.5	MIN.
C 3"	7.5	MIN.

	FIELD FABRICATED PIPE WRAP	FPW	DETAIL NO. U–8B
	MAXIMUM WARRANTY: 20 YEARS		THERMOSET UNIVERSAL

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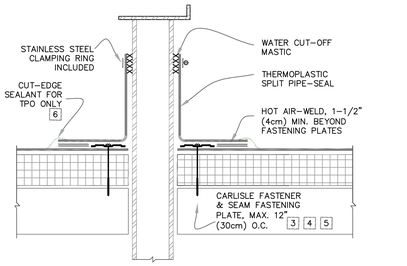
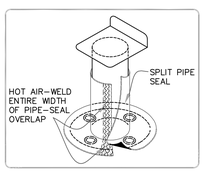
THERMOPLASTIC MEMBRANE — PVC/TPO



NOTES:

1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING SPLIT PIPE FLASHING.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO.
3. INSTALL A MINIMUM OF 4 FASTENERS AND PLATES AROUND THE PIPE, EQUALLY SPACED. IF FASTENERS AND PLATES CANNOT BE INSTALLED AS SHOWN, THEY MAY ALSO BE POSITIONED OUTSIDE THE PIPE MAXIMUM 12" (30cm) O.C. AND FLASHED WITH THERMOPLASTIC REINFORCED MEMBRANE/CUT–EDGE SEALANT. REFER TO DETAIL U–8B.
4. FASTENERS AND PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (46cm).
5. ON MECHANICALLY FASTENED SYSTEMS, HP–X FASTENERS AND PIRANHA PLATES OR HP–XTRA FASTENERS AND PIRANHA XTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD–10 OR HD 14–10 FASTENERS ARE USED WITH PIRANHA PLATES.
6. APPROXIMATELY 1/8" (0.5cm) DIAMETER BEAD OF CUT–EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE ONLY.
7. T–JOINT COVERS ARE NOT REQUIRED ON WHITE, TAN OR GRAY, FOR ADDITIONAL COLORS IT IS REQUIRED TO COVER T–JOINTS.



	CFA CERTIFIED PRE–FABRICATED SPLIT PIPE SEAL	TP	DETAIL NO. U–8E
	MAXIMUM WARRANTY: 30 YEARS		THERMOPLASTIC UNIVERSAL

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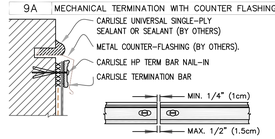
THERMOPLASTIC MEMBRANE — PVC/TPO

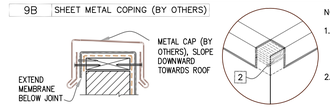
9A MECHANICAL TERMINATION WITH COUNTER FLASHING



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON EXPOSED WOOD.
2. DO NOT WRAP TERMINATION BAR AROUND CORNERS.
3. DETAIL REQUIRED FOR USE ON WARRANTY PROJECTS EXCEEDING 20–YEARS.
4. DETAIL 9E MUST BE USED AT VERTICAL JOINTS IN PANEL WALLS.

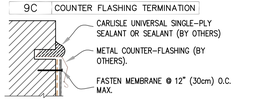
9B SHEET METAL COPING (BY OTHERS)



NOTES:

1. FOR CARLISLE SecurEdge COPING, REFER TO INSTALLATION INSTRUCTIONS PUBLISHED SEPARATELY.
2. MEMBRANE MUST BE EXTENDED TO CORNERS TO PROVIDE COMPLETE COVERAGE OF THE TOP WALL SURFACE.

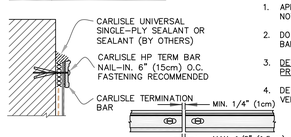
9C COUNTER FLASHING TERMINATION



NOTES:

1. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER–FLASHING, USE EPDM WASHERS, APPLY WATER CUT–OFF MASTIC UNDER THE COUNTER–FLASHING OR CAULK THE FASTENER HEADS.
2. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 10–YEARS.

9D MECHANICAL TERMINATION



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON EXPOSED WOOD.
2. DO NOT WRAP COMPRESSION TERMINATION BAR AROUND CORNERS.
3. DETAIL NOT FOR USE ON WARRANTY PROJECTS EXCEEDING 20–YEARS.
4. DETAIL 9E MUST BE USED AT VERTICAL JOINTS IN PANEL WALLS.

--- APPLICABLE BONDING ADHESIVE. | xxx WATER CUT–OFF MASTIC– MUST BE HELD UNDER CONSTANT COMPRESSION.

	MEMBRANE TERMINATIONS PAGE 1 OF 2	TP	DETAIL NO. U–9
	MAXIMUM WARRANTY: 30 YEARS		THERMOPLASTIC UNIVERSAL

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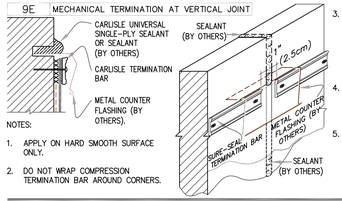
THERMOPLASTIC MEMBRANE — PVC/TPO

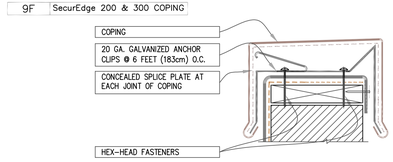
9E MECHANICAL TERMINATION AT VERTICAL JOINT



NOTES:

1. APPLY ON HARD SMOOTH SURFACE ONLY.
2. DO NOT WRAP COMPRESSION TERMINATION BAR AROUND CORNERS.
3. VERTICAL JOINTS IN THE PRE–CAST PANEL AS WELL AS ALL GAPS AT THE JUNCTION OF THE TILT–UP PANEL AND ROOF DECK MUST BE FULLY SEALED TO PREVENT AIR INFILTRATION.
4. CONTINUOUS COUNTER FLASHING REQUIRED FOR WARRANTY PROJECTS EXCEEDING 20–YEARS.
5. THIS DETAIL MUST BE USED FOR ANY PROJECT, REGARDLESS OF WARRANTY

9F SecurEdge 200 & 300 COPING



NOTES:

1. MEMBRANE MUST BE EXTENDED AT CORNERS TO PROVIDE COMPLETE COVERAGE OF THE TOP WALL SURFACE. REFER TO DETAIL U–9B.
2. REFER TO SecurEdge COPING INSTALLATION INSTRUCTION MANUAL FOR STEP–BY–STEP INSTRUCTION PROCEDURES.

9G COPING STONE TERMINATION



--- APPLICABLE BONDING ADHESIVE. | xxx WATER CUT–OFF MASTIC– MUST BE HELD UNDER CONSTANT COMPRESSION.

	MEMBRANE TERMINATIONS PAGE 2 OF 2	TP	DETAIL NO. U–9
	MAXIMUM WARRANTY: 30 YEARS		THERMOPLASTIC UNIVERSAL

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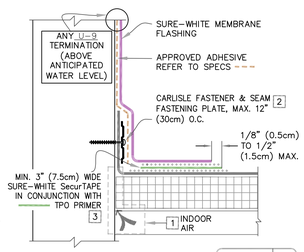
THERMOPLASTIC MEMBRANE — TPO

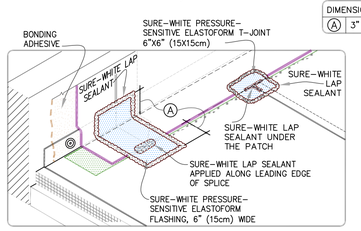
WARRANTY REQUIREMENTS	DETAIL NOT FOR USE ON 25–30 YEAR WARRANTY ROOFS. SEE DETAIL U–12A OR U–12B FOR TPO/PVC.
	FASTENERS AND PLATES ARE REQUIRED AT 6" (15cm) O.C. FOR ADHERED SYSTEMS WITH WARRANTY WIND SPEED COVERAGE GREATER THAN 90 MPH AND FOR ALL PROJECTS WITH WARRANTIES GREATER THAN 20 YEARS.
	SEE NOTE # 3.

NOTES:

1. REFER TO SPECIAL CONDITION SPEC. SUPPLEMENTS G–01–18 OR G–08–19:
   1.1. TO BLOCK INDOOR AIR INFILTRATION AND HUMIDITY AT THE JUNCTION (G–01–18).
   1.2. WHERE ROOF SYSTEM IS DESIGNED WITH A VAPOR RETARDER (G–08–19).
2. SEAM FASTENING PLATE/FASTENER MAY BE INSTALLED INTO THE STRUCTURAL DECK.
3. FOR PROJECTS WITH 20–YEAR WARRANTY, USE 3" (7.5 cm) WIDE FIELD APPLIED SecurTAPE.



DIMENSION	cm
A 3"	7.5



	PARAPET/CURB WITH SURE–WHITE EPDM & SURE–WHITE SecurTAPE	TP	DETAIL NO. U–12AT
	MAXIMUM WARRANTY: 20 YEARS		THERMOPLASTIC TPO

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HARLINGEN, TEXAS 78550
T 956.365.4820
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3700 N. 10TH, SUITE 205
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F 956.622.7313

CONSULTANTS:

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PHONE: 713-462-3242
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4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
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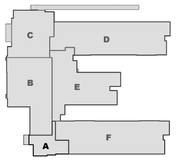
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT — BRENDA G. RUBIANO — STATE OF TEXAS — 23265 — Registered Architect

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

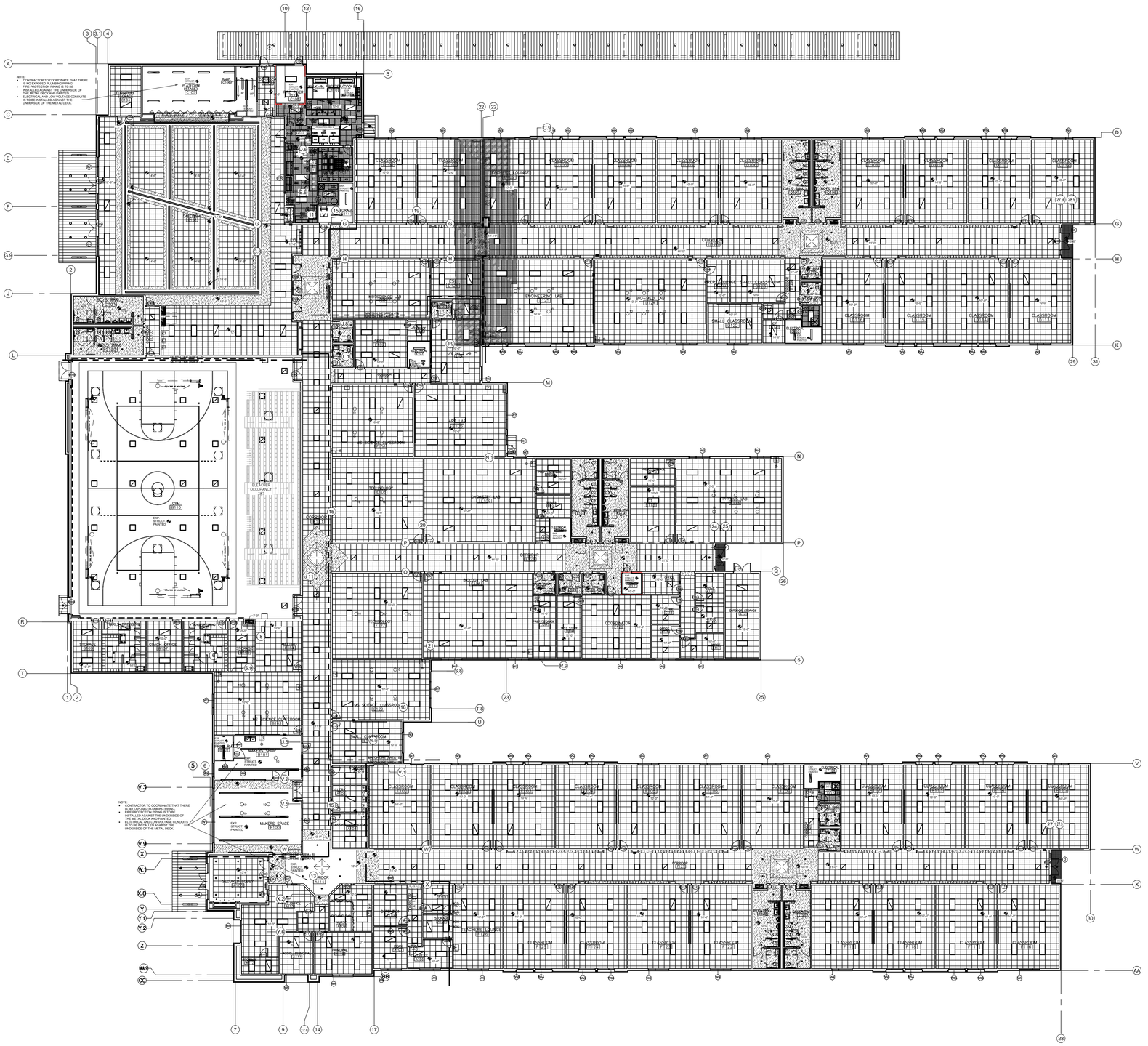
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
ROOF DETAILS ALTERNATES #2 AND #3

A-407B



1 OVERALL REFLECTED CEILINLG PLAN
1/16"=1'-0"

GENERAL NOTES

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

8. APC-1 - SCHOOL ZONE FINE FISSURED, # 1713, ARMSTRONG WORLD INTERIORS INC.. PROVIDE AT ALL INSTRUCTIONAL AREAS SCHEDULED TO RECEIVE 2'-0" X 2'-0" SUSPENDED ACOUSTICAL CEILING TILE AND GRID UNLESS OTHERWISE NOTED. HIGH NRC, USED IN INSTRUCTION AREAS, CLASSROOMS, MEDIA CENTERS,COUNSELORS OFFICE ETC.
   a. 24"X24"X3/4"
   b. WHITE
   c. NRC - 0.70

9. APC-2 - FINE FISSURED, # 1736, ARMSTRONG WORLD INTERIORS INC.. PROVIDE AT ALL NON-INSTRUCTIONAL AREAS SCHEDULED TO RECEIVE 2'-0" X 2'-0" SUSPENDED ACOUSTICAL CEILING TILE AND GRID UNLESS OTHERWISE NOTED. STANDARD NRC, USED IN NON-INSTRUCTIONAL AREAS, OFFICE, CORRIDORS, ETC..
   a. 24"X24"X5/8"
   b. WHITE
   c. NRC - 0.55

10. APC-3 - KITCHEN ZONE, # 673, ARMSTRONG WORLD INDUSTRIES, INC.. PROVIDE AT ALL AREAS SCHEDULED TO RECEIVE 2'-0" X 2'-0" SUSPENDED SANITARY (NON-PERFORATED) CEILING TILE AND GRID. SANITARY, NON-PERFORATED USED IN KITCHENS
   a. 24"X24"X5/8"
   b. WHITE
   c. NRC - N/A

11. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSER, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEILILNG
- PLASTER
- ALTERNATE BID ITEM - SOLATUBE - RE: DETAIL 12/A-313
- DESIGNATED 2 HR. SEPARATION - U419
- 2x2 VINYL FACED SUSPENDED CEILING TILE
- CANOPY PRE-FINISHED METAL SOFFIT PANELS

SCHEDULE OF ALTERNATES

REFER TO SPECIFICATIONS AND CONSTRUCTION DRAWINGS FOR ADDITIONAL INFORMATION ON ALRERNATES LISTED.

ALTERNATE NO. 01:

- TUBULAR DAYLIGHT DEVICES - PROVIDE TUBULAR DEVICES IN GYMNASIUM IN ACCORDANCE PLANS AND SPECIFICATIONS.

GIGNAC | ARCHITECTS
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CONSULTANTS:

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4424 W SAM HOUSTON PKWY, SUITE 600
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STRUCTURAL AND WINDSTORM:
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San Antonio, Texas 78216
Tel : 210-546-9200

INFORMATION TECHNOLOGY:
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100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

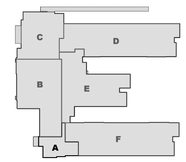
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT — RAYMOND D. GIGNAC — 6295 — STATE OF TEXAS

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:

OVERALL REFLECTED CEILING PLAN

A-408

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

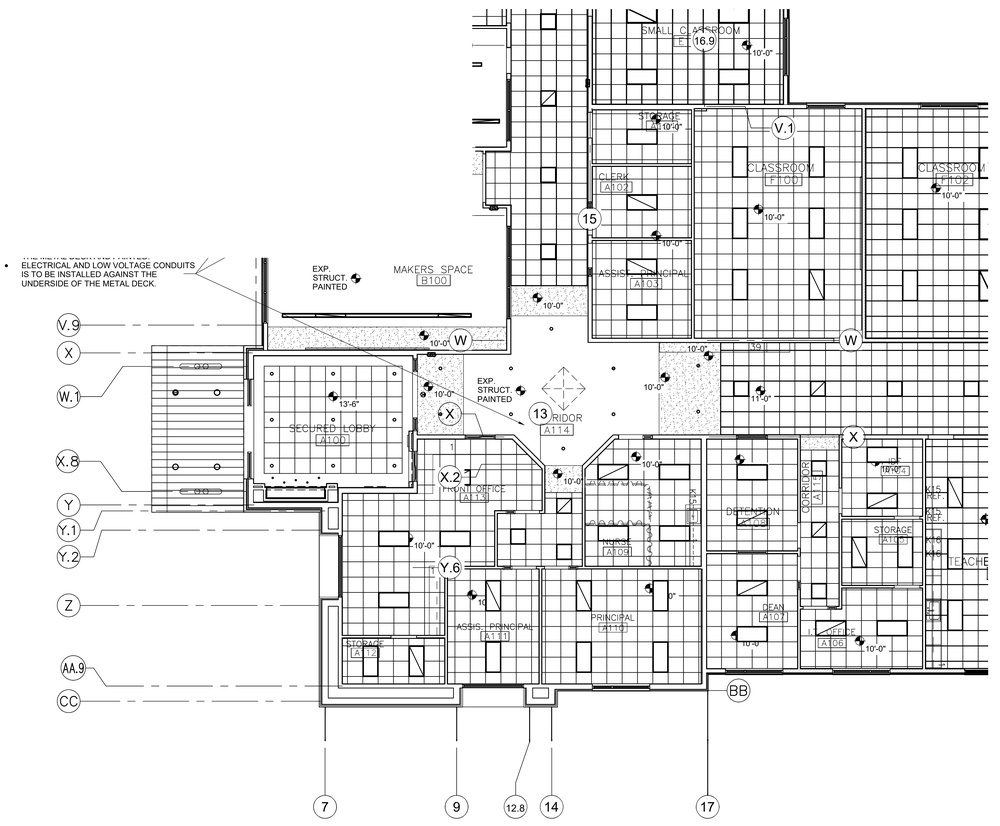
5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEILILNG
- PLASTER
- ALTERNATE BID ITEM - SOLATUBE - RE: DETAIL 12/A-313
- DESIGNATED 2 HR. SEPARATION - U419 RE: SPEC SECTION 078116 CEMENTITIOUS FIREPROOFING
- 2x2 VINYL FACED SUSPENDED CEILING TILE
- CANOPY PRE-FINISHED METAL SOFFIT PANELS



1 **REFLECTED CEILING PLAN - AREA - A**
1/8"=1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL REFLEC. CEILING PLAN - AREA - A

A-409

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

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CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
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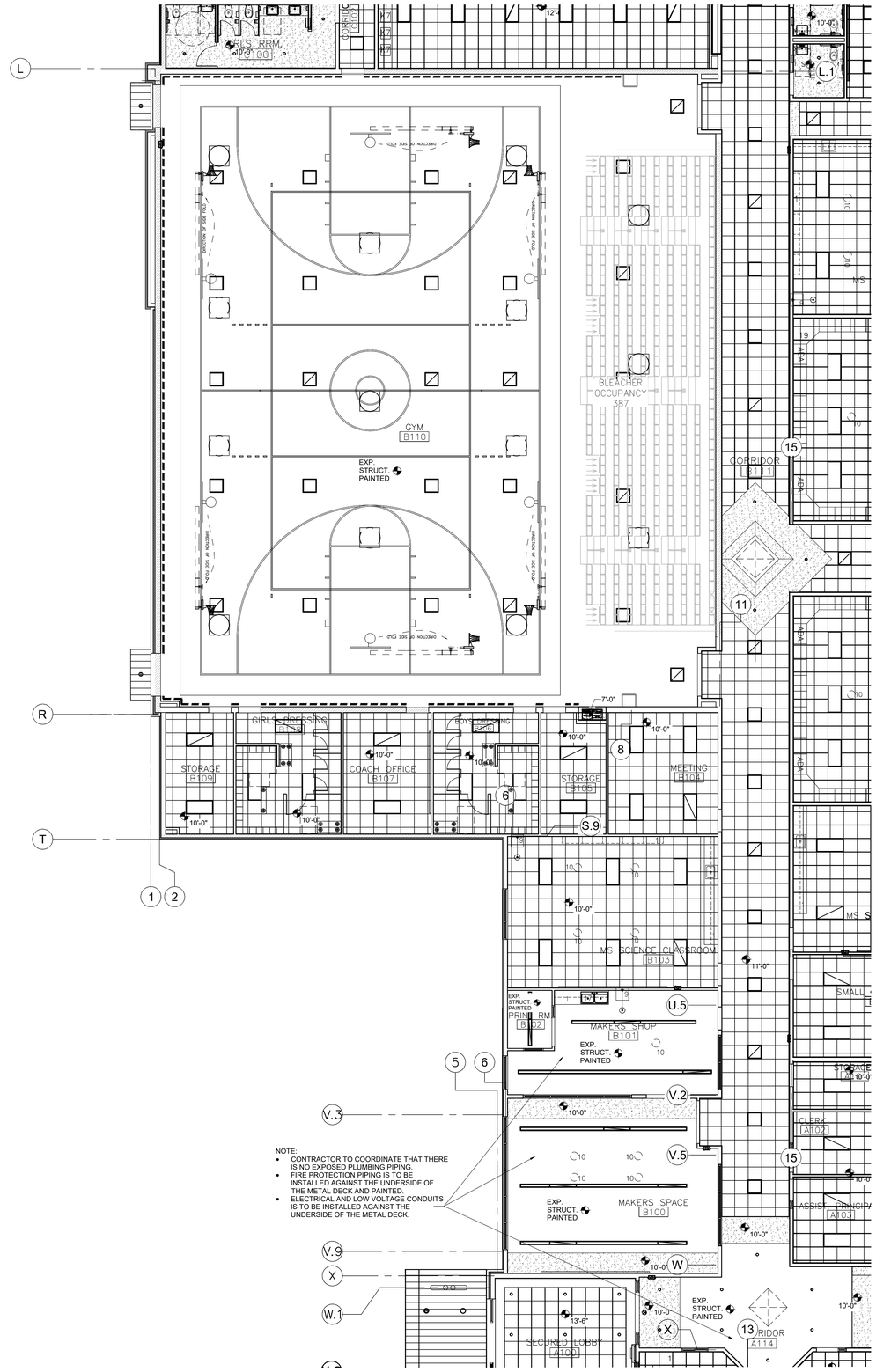
- ALTERNATE BID ITEM - SOLATUBE - RE: DETAIL 12/A-313
- DESIGNATED 2 HR. SEPARATION - U419 RE: SPEC SECTION 078116 CEMENTITIOUS FIREPROOFING
- 2x2 VINYL FACED SUSPENDED CEILING TILE
- CANOPY PRE-FINISHED METAL SOFFIT PANELS



1 REFLECTED CEILING PLAN - AREA - B
1/8"=1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242
LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
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Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
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FOOD SERVICE DESIGN:
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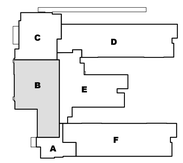
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:

PARTIAL REFLECT. CEILING PLAN - AREA - B

A-410

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

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- 2x4 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEILILNG
- PLASTER
- ALTERNATE BID ITEM - SOLATUBE - RE: DETAIL 12/A-313
- DESIGNATED 2 HR. SEPARATION - U419 RE: SPEC SECTION 078116 CEMENTITIOUS FIREPROOFING
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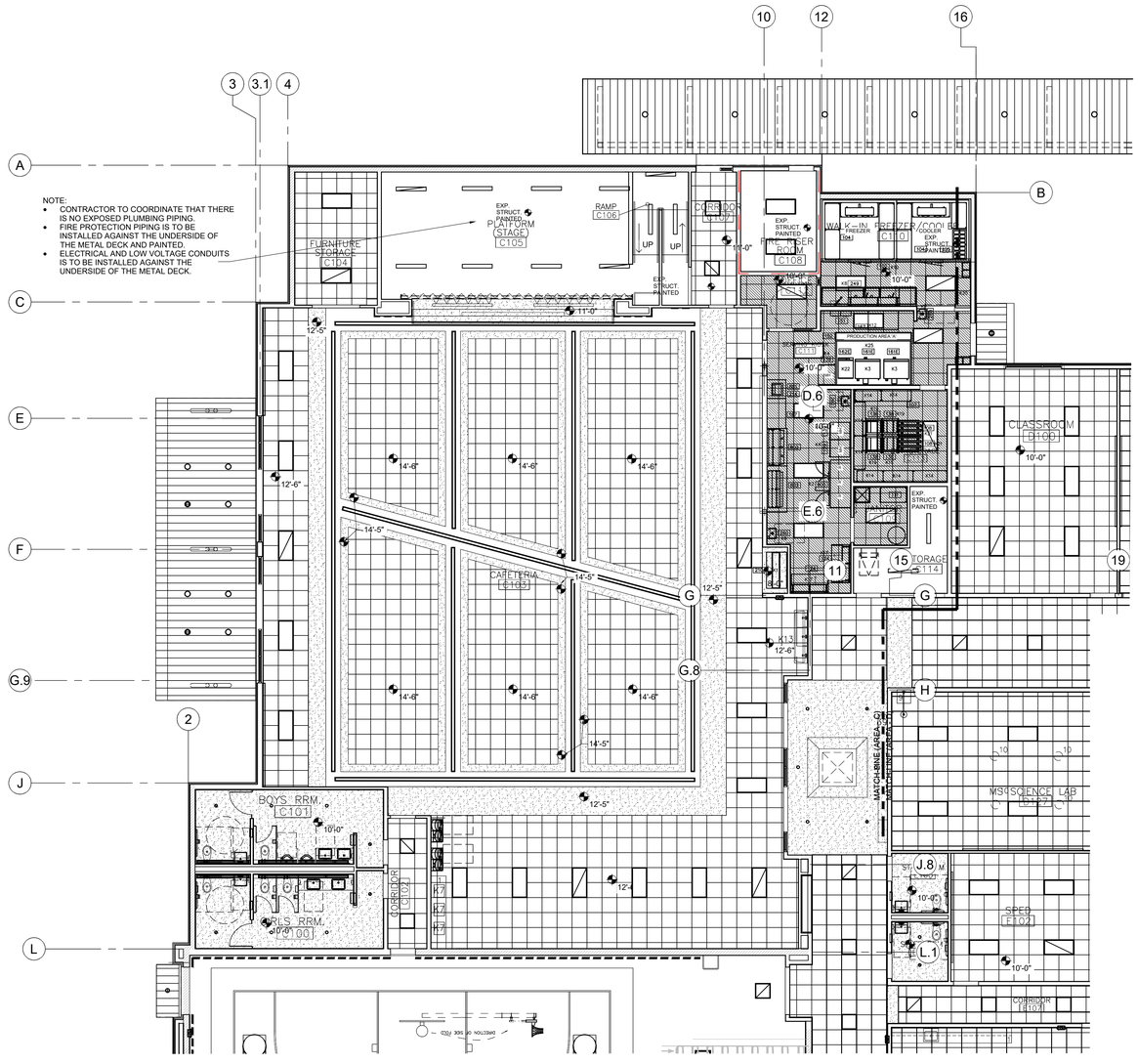

1 REFLECTED CEILING PLAN - AREA - C
1/8"=1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
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T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
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INFORMATION TECHNOLOGY:
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Phone: 210-698-7887

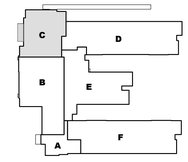
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMUND D. GIGNAC 23455 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

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Checked: RG

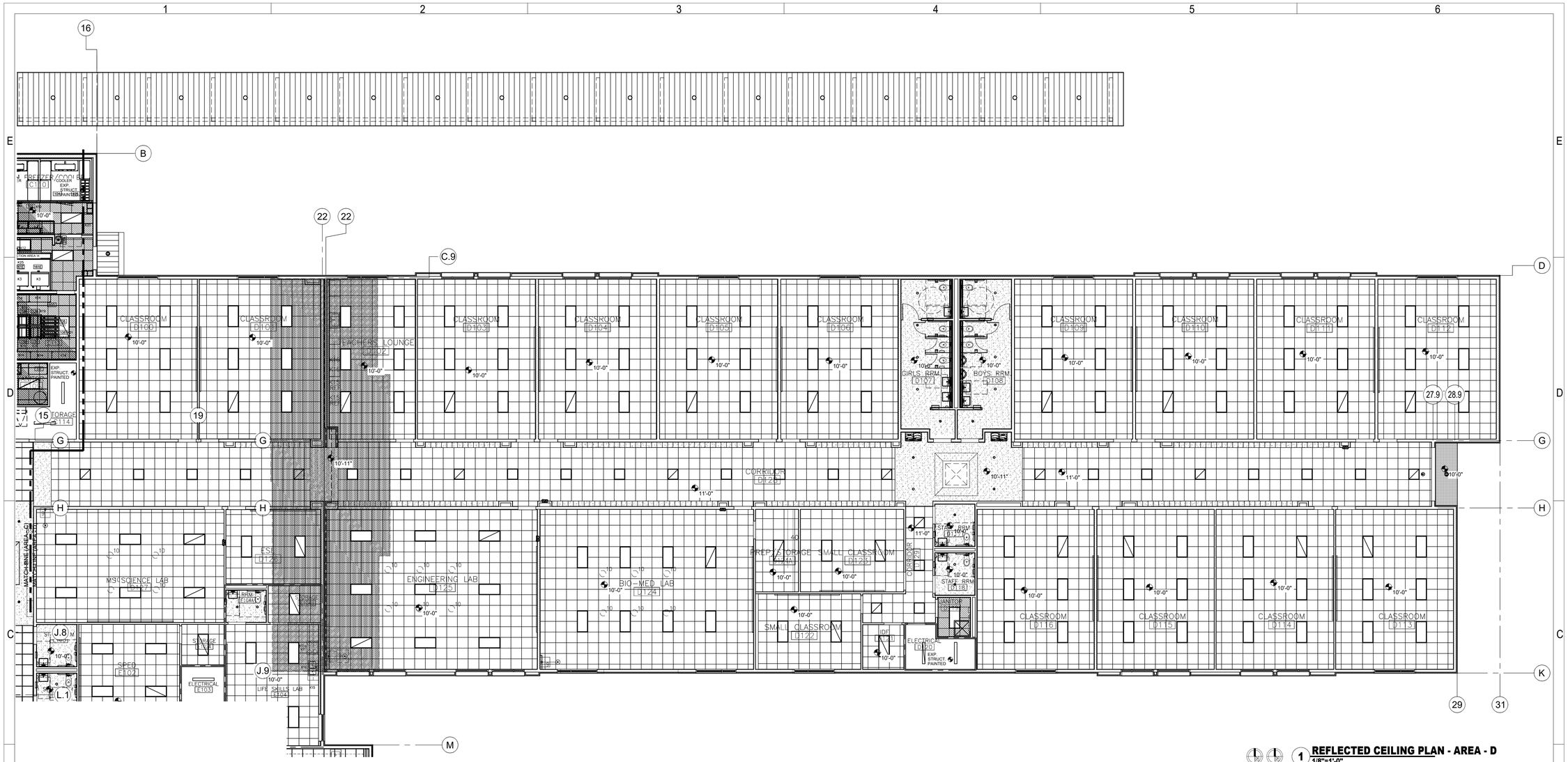
Revisions:

No.	Description	Date

Sheet Title:

PARTIAL REFLEC. CEILING PLAN - AREA - C

A-411



1 REFLECTED CEILING PLAN - AREA - D
1/8"=1'-0"

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.
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CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
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- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEIILING
- PLASTER
- ALTERNATE BID ITEM - SOLATUBE - RE: DETAIL 12/A-313
- DESIGNATED 2 HR. SEPARATION - U419 RE: SPEC SECTION 078116 CEMENTITIOUS FIREPROOFING
- 2x2 VINYL FACED SUSPENDED CEILING TILE
- CANOPY PRE-FINISHED METAL SOFFIT PANELS

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

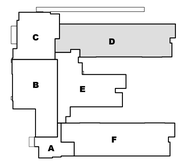
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL REFLEC. CEILING PLAN - AREA - D

A-412

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

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CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
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- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
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- PLASTER
- ALTERNATE BID ITEM - SOLATUBE - RE: DETAIL 12/A-313
- DESIGNATED 2 HR. SEPARATION - U419 RE: SPEC SECTION 078116 CEMENTITIOUS FIREPROOFING
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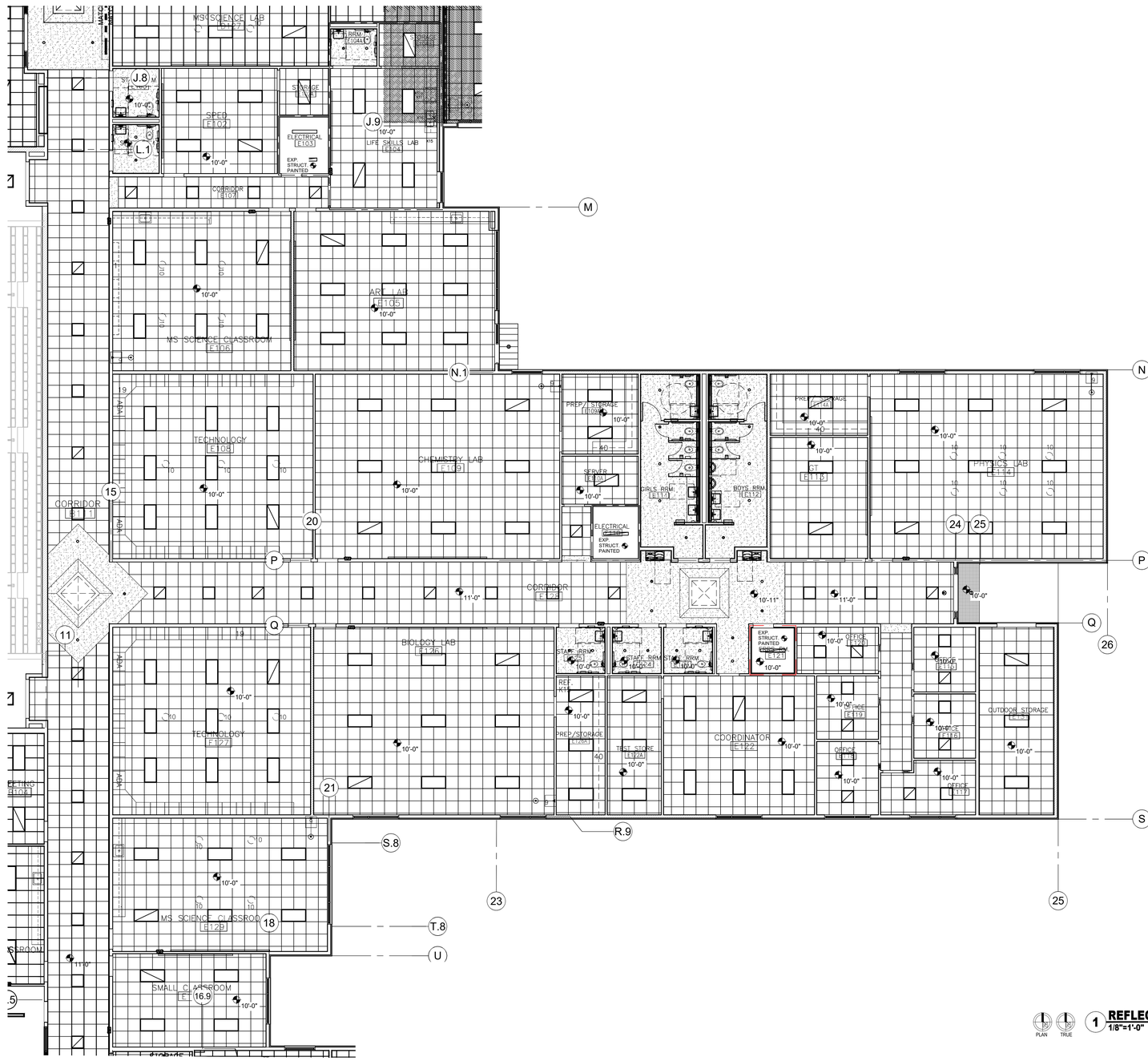

1 **REFLECTED CEILING PLAN - AREA - E**
1/8"=1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
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3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
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Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
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Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 22955 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
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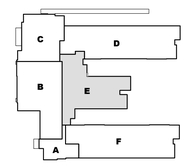

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
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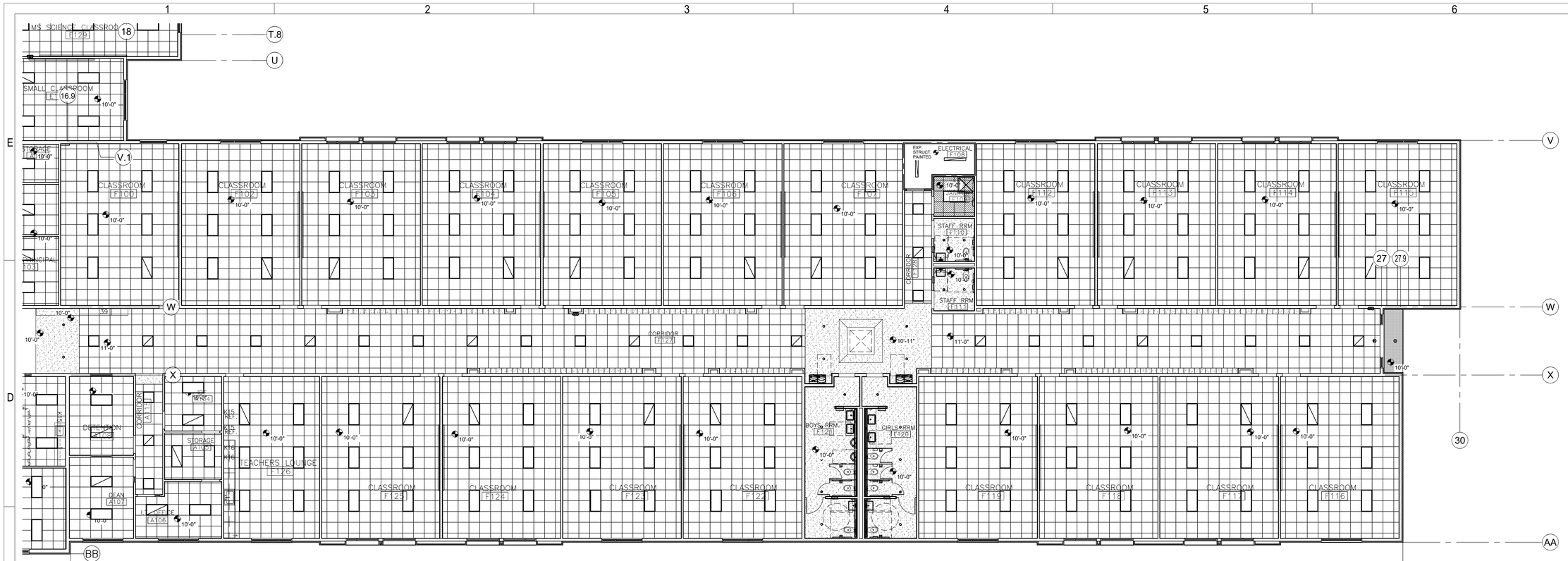
No.	Description	Date

Sheet Title:
PARTIAL REFLEC. CEILING PLAN - AREA - E

A-413



GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

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- RETURN GRILLE
- 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEIILNG
- PLASTER
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- 2x2 VINYL FACED SUSPENDED CEILING TILE
- CANOPY PRE-FINISHED METAL SOFFIT PANELS

PLAN TRUE

1 REFLECTED CEILING PLAN - AREA - F
1/8"=1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
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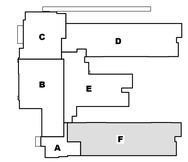
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

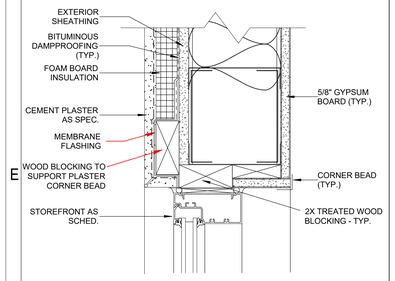
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTIAL RELFEC. CEILING PLAN - AREA - F

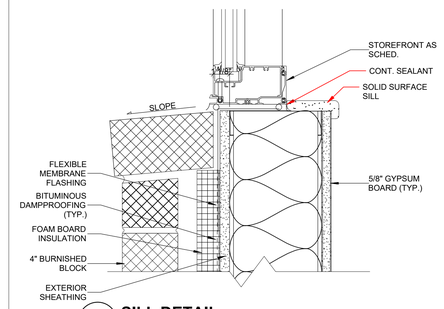
A-414



1 HEAD DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTE:
1. PROVIDE Z-FURRING STRIPS FOR ATTACHMENT OF CEMENT PLASTER AND METAL COMPOSITE WALL PANELS ASSEMBLY AT METAL COLD-FORMED FRAMING ASSEMBLY - TYPICAL.
2. PROVIDE Z-FURRING STRIPS AS REQUIRED FOR MESH LATH ATTACHMENT BETWEEN COLD-FORMED FRAMING AS REQUIRED BY PLASTER MANUFACTURER - TYPICAL.
3. CONTRACTOR TO PROVIDE 2X TREATED WOOD BLOCKING - TYPICAL.

6 NOT USED
SCALE: 3" = 1'-0"



11 SILL DETAIL
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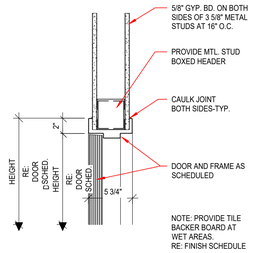

16 DOOR HEAD DETAIL
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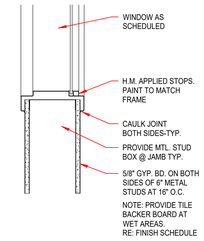
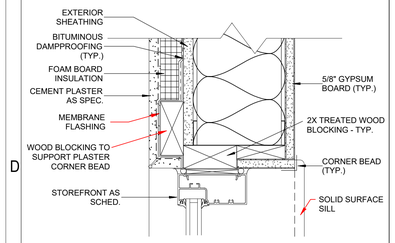


21 H.M. WIN. JAMB - 6" STUD WALL - TYP.
SCALE: 1 1/2" = 1'-0"



2 JAMB DETAIL
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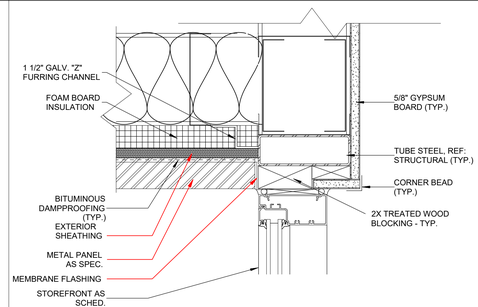
7 NOT USED
SCALE: 3" = 1'-0"



12 HEAD DETAIL
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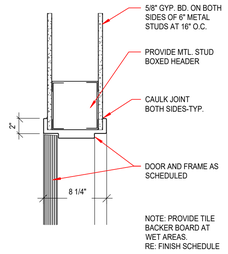

17 DOOR HEAD DETAIL
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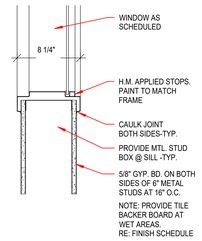

22 H.M. WIN. SILL - 6" STUD WALL
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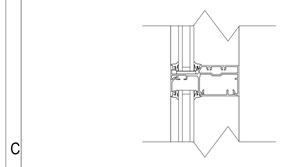

3 TRANSOM DETAIL
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8 NOT USED
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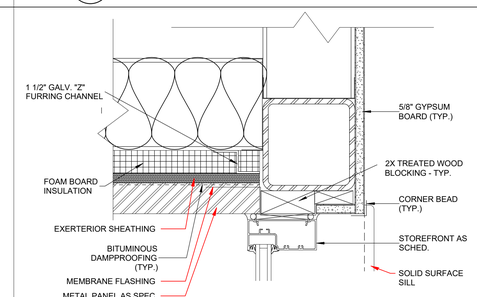

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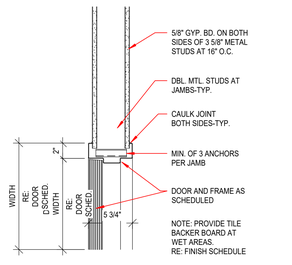

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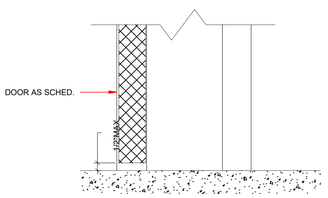
SCALE: 1 1/2" = 1'-0"



23 INT. DOOR TRESHOLD
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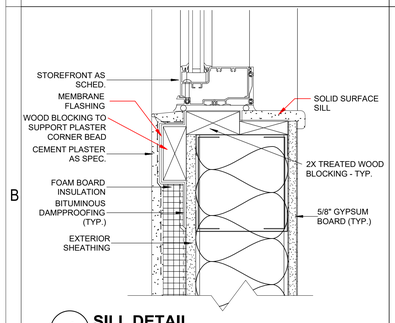

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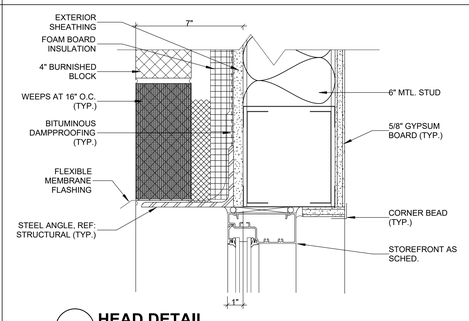
SCALE: 3" = 1'-0"



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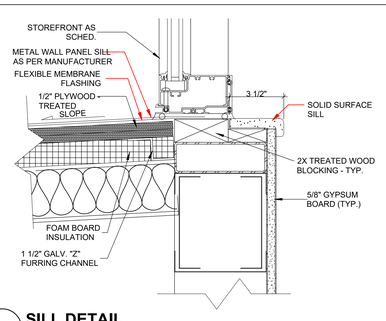

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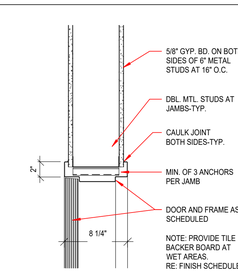
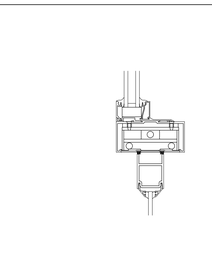


19 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



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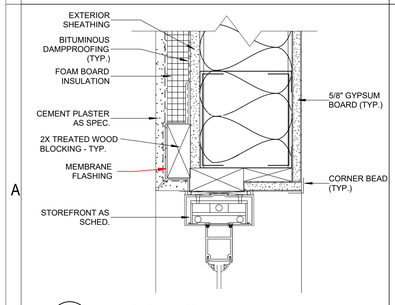
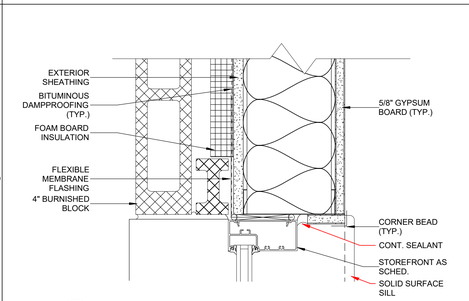
SCALE: 3" = 1'-0"



5 HEAD DETAIL
SCALE: 3" = 1'-0"



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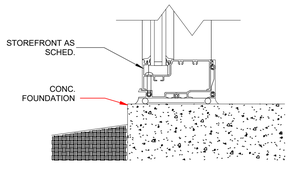

15 SILL DETAIL
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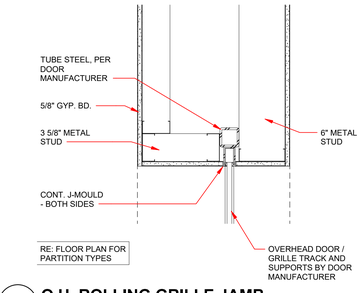
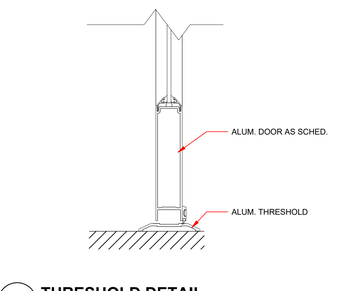


20 O.H. ROLLING GRILLE JAMB
SCALE: 1 1/2" = 1'-0"



25 THRESHOLD DETAIL
SCALE: 3" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
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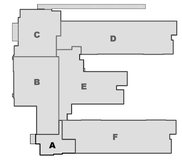
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 8235 STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

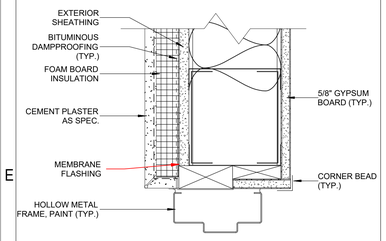
Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

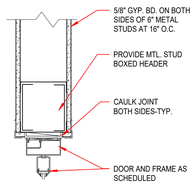
No.	Description	Date

Sheet Title:
DOOR AND WINDOW DETAILS

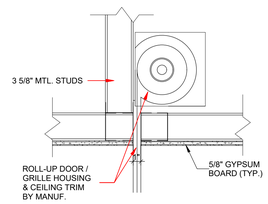
A-501



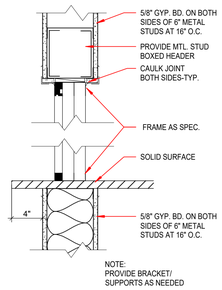
1 HEAD DETAIL
SCALE: 3" = 1'-0"



6 SF DOOR JAMB - 6" STUD WALL
SCALE: 1 1/2" = 1'-0"

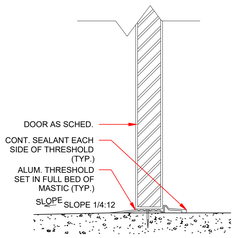


10 ROLL-UP DOOR HEAD
SCALE: 1 1/2" = 1'-0"

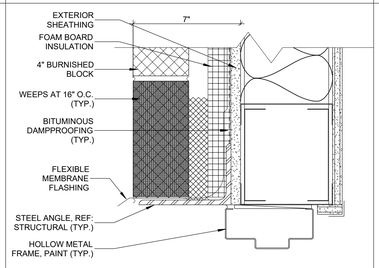


13 SLIDING WINDOW
SCALE: 1 1/2" = 1'-0"

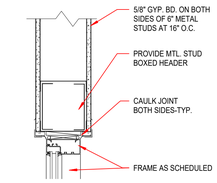
GENERAL NOTE:
1. PROVIDE Z-FURRING STRIPS FOR ATTACHMENT OF CEMENT PLASTER AND METAL COMPOSITE WALL PANELS ASSEMBLY AT METAL COLD-FORMED FRAMING ASSEMBLY - TYPICAL.
2. PROVIDE Z-FURRING STRIPS AS REQUIRED FOR MESH LATH ATTACHMENT BETWEEN COLD-FORMED FRAMING AS REQUIRED BY PLASTER MANUFACTURER - TYPICAL.
3. CONTRACTOR TO PROVIDE 2X TREATED WOOD BLOCKING - TYPICAL.



2 EXT. DOOR THRESHOLD
SCALE: 3" = 1'-0"



7 HEAD DETAIL
SCALE: 3" = 1'-0"



11 STOREFRONT HEAD DETAIL
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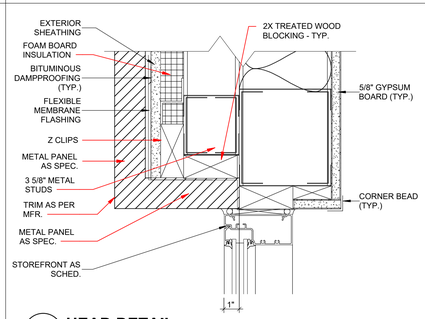

14 HEAD DETAIL
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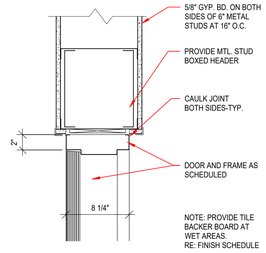
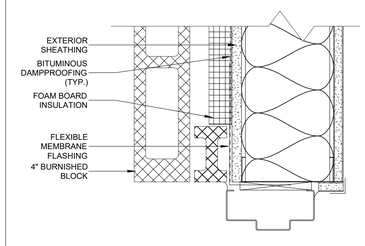


3 H.M. DOOR HEAD - 10" STUD WALL
SCALE: 1 1/2" = 1'-0"



8 JAMB DETAIL
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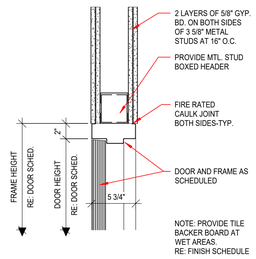

12 FIRE RATED DOOR HEAD
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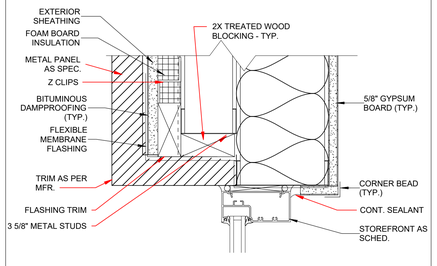

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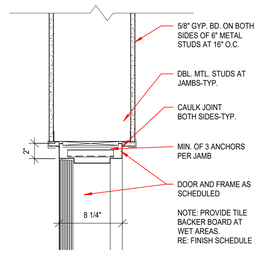
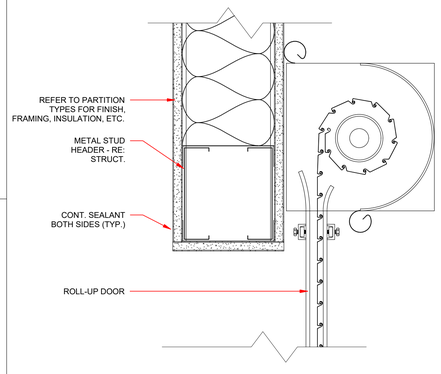
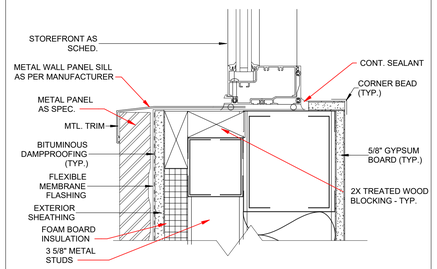


4 H.M. DOOR JAMB - 10" STUD WALL
SCALE: 1 1/2" = 1'-0"



9 ROLL-UP HEAD
SCALE: 3" = 1'-0"



16 SILL DETAIL
SCALE: 3" = 1'-0"

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F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
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F 956.622.7313

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Phone: 210-698-7887

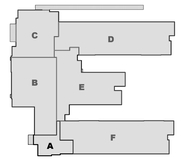
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT — RAYMOND D. GIGNAC — 6298 — STATE OF TEXAS

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

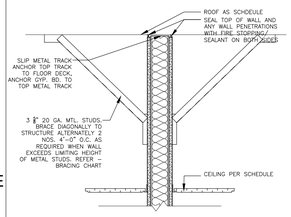
Drawn: RD
Checked: RG

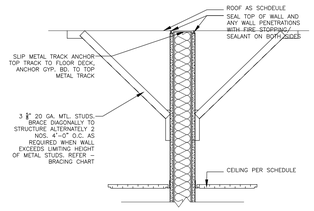
Revisions:

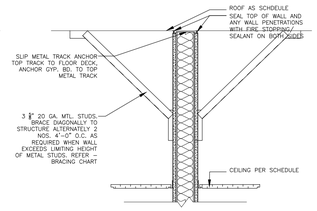
No.	Description	Date

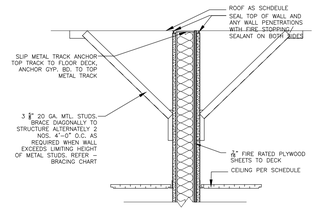
Sheet Title:
DOOR AND WINDOW DETAILS

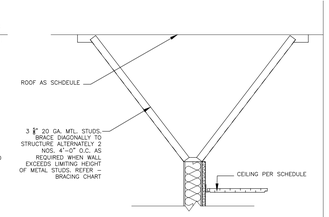
A-502

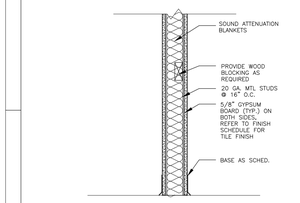




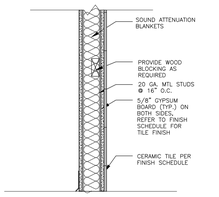




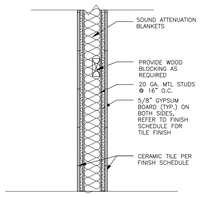




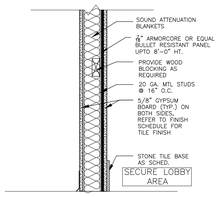
TYPE	RATG.	DESCRIPTION
S1		3 5/8" MTL. STD. TO DECK
S2		6" MTL. STD. TO DECK
S3		8" MTL. STD. TO DECK



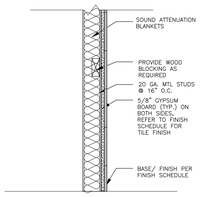
TYPE	RATG.	DESCRIPTION
S5		3 5/8" MTL. STD. WITH TILE ON BOTH SIDES OF WALL SYSTEM
S6		6" MTL. STD. WITH TILE ON ONE SIDES OF WALL SYSTEM
S7		8" MTL. STD. WITH TILE ON ONE SIDES OF WALL SYSTEM
S8		10" MTL. STD. WITH TILE ON ONE SIDES OF WALL SYSTEM



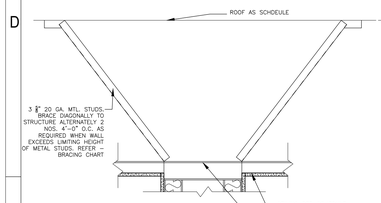
TYPE	RATG.	DESCRIPTION
S5A		3 5/8" MTL. STD. WITH TILE ON BOTH SIDES OF WALL SYSTEM
S6A		6" MTL. STD. WITH TILE ON BOTH SIDES OF WALL SYSTEM
S7A		8" MTL. STD. WITH TILE ON BOTH SIDES OF WALL SYSTEM

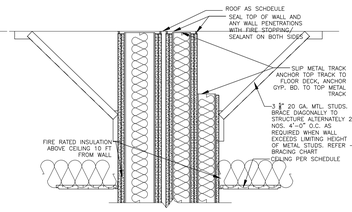


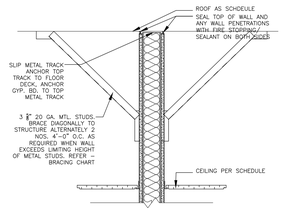
TYPE	RATG.	DESCRIPTION
S10		6" MTL. STD. TO DECK WITH BULLET RESISTANT PANEL
S10A		8" MTL. STD. TO DECK WITH BULLET RESISTANT PANEL

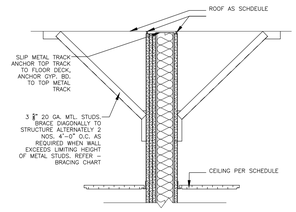


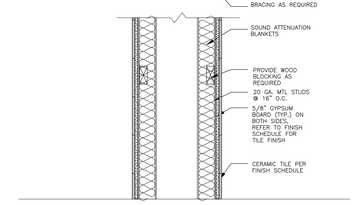
TYPE	RATG.	DESCRIPTION
S12		3 5/8" MTL. STD. CHASE WALL
S13		3 5/8" MTL. STD. CHASE WALL WITH TILE



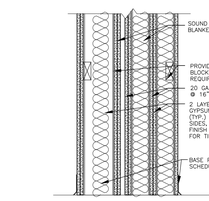




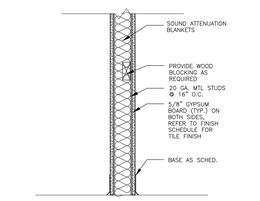




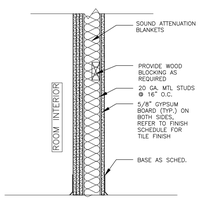
TYPE	RATG.	DESCRIPTION
S20		RESTROOM CHASE 3 5/8" MTL. STD. WITH TILE ON BOTH SIDES OF WALL SYSTEM



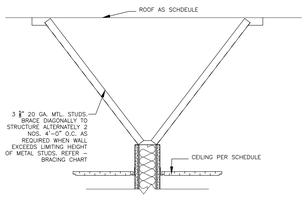
TYPE	RATG.	DESCRIPTION
S14	2 HR	6" MTL. STD. WITH LAYERS OF 5/8" GYP. BD. (UL U 419) 3 5/8" MTL. STD. WITH 5/8" PAINTED GYP. BD. ON ONE SIDE OF FIRE SEPARATION
S14A	2 HR	6" MTL. STD. WITH LAYERS OF 5/8" GYP. BD. (UL U 419) 3 5/8" MTL. STD. WITH 5/8" PAINTED GYP. BD. ON BOTH SIDES OF FIRE SEPARATION

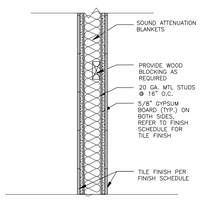


TYPE	RATG.	DESCRIPTION
S15	1 HR	3 5/8" MTL. STD. WITH GYP. BD ON BOTH SIDES OF WALL SYSTEM (UL U419) / AND FINISH PER FINISH SCHEDULE
S16	1 HR	6" MTL. STD. WITH GYP. BD ON BOTH SIDES OF WALL SYSTEM AND FINISH PER FINISH SCHEDULE



TYPE	RATG.	DESCRIPTION
S17	2 HR	3 5/8" MTL. STD. WITH GYP. BD ON BOTH SIDES OF WALL SYSTEM (UL U419) / AND FINISH PER FINISH SCHEDULE
S18	2 HR	6" MTL. STD. WITH GYP. BD ON BOTH SIDES OF WALL SYSTEM AND FINISH PER FINISH SCHEDULE





TYPE	RATG.	DESCRIPTION
S19		3 5/8" MTL. STD. WITH TILE ON BOTH SIDES OF WALL SYSTEM

1 PARTITION TYPES
SCALE: 1" = 1'-0"

BRACING NOTES:

1. AT WALLS THAT TERMINATE ABOVE CEILING, CONTRACTOR MAY CONTINUE METAL STUD FRAMED WALLS TO UNDERSIDE OF METAL DECK AND OMIT DIAGONAL BRACING IF HEIGHT DOES NOT EXCEED LIMITING HEIGHT OF METAL STUD AS INDICATED ON CHART BELOW.
2. PROVIDE INTERMEDIATE BRACING AT ALL PARTITIONS THAT EXCEED LIMITING HEIGHT OF METAL STUDS AS INDICATED ON CHART BELOW.
3. ALL BRACING SHALL BE AT STUD POINTS.
4. WHERE BRACING METHODS BETWEEN THIS SHEET AND STRUCTURE CONFLICT, STRUCTURE SHALL OVERRIDE. NOTIFY RCHITECT.

TERMINATION NOTES:

1. AT ALL RATED PARTITIONS, FILL VOIDS IN METAL DECK AT TOP OF PARTITIONS WITH FIRESAFING.

CMU PARTITION NOTES:

1. LOCATE CONTROL JOINTS IN CMU PARTITIONS AS FOLLOWS (UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER):
   A. PARTITIONS EXCEEDING 25'-0"
   B. WHERE PARTITION ABUTS A STRUCTURAL ELEMENT OF DISSIMILAR WALL.
   C. AT EXPANSION JOINTS
   D. REFER TO DETAILS FOR ADDITIONAL LOCATIONS
2. PROVIDE CMU LINTELS FOR ALL OPENINGS IN INTERIOR CMU PARTITIONS. COORDINATE WITH STRUCTURAL DRAWINGS.
3. PROVIDE 3/4" SPACE BETWEEN TOP OF CMU WALL AND STRUCTURE/ DECK ABOVE FOR POTENTIAL DEFLECTION. SEAL WITH APPROPRIATE SEALANT.
4. REFER TO STRUCTURE FOR ALL REINFORCING, BOND BEAM LOCATIONS AND LINTEL SCHEDULES.

GYPSUM WALLBOARD PARTITION NOTES:

1. ALL METAL STUD PARTITIONS ARE 25 GAUGE METAL STUDS AT 16" O.C. UNLESS NOTED OTHERWISE. IF THE LIMITING HEIGHT FOR A PARTITION IS EXCEEDED, INCREASE GAUGE OF STUDS AS INDICATED ON "LIMITING HEIGHT OF METAL STUDS" TABLE BELOW. NOTIFY ARCHITECT PRIOR TO INSTALLATION
2. PROVIDE 20 GAUGE METAL STUDS IN LIEU OF 25 GAUGE METAL STUDS AT STUD WALL CERAMIC TILE LOCATIONS.
3. SET ALL FLOOR TRACKS ON A CONTINUOUS RIBBON OF SEALANT.
4. AT PARTITIONS DESIGNATED TO HAVE SOUND ATTENUATION BLANKETS:
   A. PROVIDE 3-1/2" OR 6" THICK (MATCH STUD SIZE) SOUND ATTENUATION BLANKETS OR BATTS FULL THEIGHT OF PARTITION, UNLESS NOTED OTHERWISE.
   B. FILL ALL DECK VOIDS WITH SOUND ATTENUATION MATERIAL.
   C. SEAL PARTITION PERIMETER AND ALL PENETRATIONS WITH ACOUSTICAL SEALANT.
   D. TAPE AND BED OR CAULK ALL JOINTS BETWEEN FIRST AND SECOND LAYERS OF GYPSUM BOARD AND AT ALL SOUND RATED WALLS TAKEN THROUGH THE CEILING.
   E. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT BOTTOM OF PARTITION ON BOTH SIDES AT NON-RATED PARTITIONS AND PROVIDE CONTINUOUS FIRE RATED SEALANT AT FIRE-RATED PARTITIONS.
5. PROVIDE TILE BACKER BOARD ON WALLS BEHIND AND ADJACENT TO PLUMBING FIXTURES, AND BEHIND ALL CERAMIC TILE AT ALL DAMP LOCATIONS AT GYPSUM BOARD PARTITIONS.
6. RIGIDLY BRACE ALL DOOR JAMBS AT THE HEAD, HINGE AND STRIKE SIDES AND WINDOW AT THE HEAD, SILL AND JAMBS.
7. LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS:
   A. PARTITIONS OR FURRING RUNS EXCEEDING 30'-0"
   B. WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
   C. CONSTRUCTION CHANGES WITHIN PLANE OF PARTITION
   D. AT EXPANSION OR CONTROL JOINTS THROUGHOUT THE BUILDING
   E. AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR AND WINDOW FRAMES, ABOVE AND BELOW FULL HEIGHT OF WALL
8. FIRE RATED PARTITIONS:
   A. PROVIDE TYPE "X" FIRE RESISTIVE GYPSUM BOARD, 5/8" THICK UNLESS NOTED OTHERWISE
   B. FILL ALL VOIDS AT DECK WITH FOAM FIRESTOP SEALANT
   C. SEAL PARTITION PERIMETER AND ALL PENETRATIONS WITH RATED SEALANT
   D. REFER TO UL MANUAL FOR RATED PARTITION DESCRIPTIONS AND DETAILED CONSTRUCTION NOTES.
9. PROVIDE DEFLECTION TRACK AT ALL STUD CONNECTIONS AT BOTTOM OF DECK AND FILL VOIDS AS REQUIRED.
10. EXTEND GYPSUM BOARD ABOVE ADJACENT FINISHED CEILING MINIMUM OF SIX INCHES (6").

HOW TO USE THIS SHEET:

1. NOT EVERY PARTITION TYPE SHOWN IS NECESSARILY INTENDED FOR THE USE ON THIS PROJECT. REFER TO FLOOR PLANS FOR REFERENCE MARKS INDICATING APPLICABLE PARTITION TYPES.
2. REFER TO BRACING DETAILS FOR SUPPORT OF THE TOP OF EACH PARTITION TYPE AND BRACING OF PARTITIONS THAT EXCEED LIMITING HEIGHT OF PARTITION TYPES.
3. REFER TO FINISH SCHEDULES FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
4. COORDINATE BURNISHED AND SPLIT FACE CMU BLOCK BASED ON FINISH SCHEDULES, SECTIONS AND DETAILS.
5. COORDINATE TOPS OF FINISHED WALLS WITH ADJACENT CEILING HEIGHTS PER SCHEDULES, SECTIONS AND/OR DETAILS.
6. CONSULT ARCHITECT FOR ANY DISCREPANCIES OR QUESTIONS REGARDING PARTITIONS PRIOR TO INSTALLATION.

C5 PARTITION TYPES - NOTES

NON-LOAD BEARING WALL BRACES. BRACING AT THE TOP OF MASONRY WALLS IS REQUIRED ON STRAIGHT RUNS OF WALL MORE THAN SIX FEET FROM A CORNER OR INTERSECTING WALL. BRACING PLAN REQUIREMENTS (INTERIOR WALLS ONLY)

BRACE FRAMING FOR 3 5/8" STUDS

STUD TYPE MISCELLANEOUS	STUD PROP.	SPACING	MAX. LENGTH	
SJ 20 (40 KSI) (20 GA.)	1X = 0.541 IN^4	4.-0" O.C.	14'-0"	BRACE AT MID-POINT FOR LENGTHS OVER 14'-0"
	rx = 1.429 IN			
	A = 0.2136 IN^2			
	Sx = 0.273 IN^3			

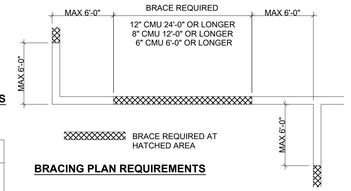
BRACE FRAMING FOR 6" STUDS

STUD TYPE MISCELLANEOUS	STUD PROP.	SPACING	MAX. LENGTH	
SJ 20 (40 KSI) (20 GA.)	1X = 1.787 IN^4	4.-0" O.C.	20'-0"	BRACE AT MID-POINT FOR LENGTHS OVER 20'-0"
	rx = 2.253 IN			
	A = 0.2148 IN^2			
	Sx = 0.539 IN^3			

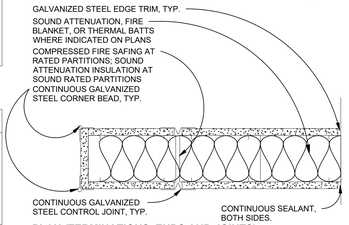
LIMITING HEIGHT OF METAL STUDS

STUD SIZE	SPACING	25 GA.	20 GA.
2 1/2"	16"	11'-3"	12'-10"
3 5/8"	16"	14'-4"	16'-5"
6"	16"	19'-9"	24'-6"

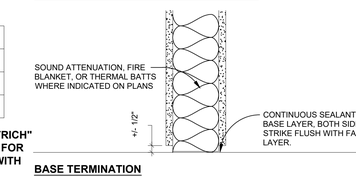
NOTE: THE TABLE INDICATED ABOVE IS BASED ON "DIETRICH" LIMITING HEIGHT CHART AND IS TO BE USED AS A GUIDE FOR INTERIOR WALL CONSTRUCTION. THE TABLE IS BASED WITH SHEATHING BOARD ON BOTH SIDES OF PARTITION.



BRACING PLAN REQUIREMENTS



PLAN (TERMINATIONS, ENDS AND JOINTS)



BASE TERMINATION

A5 PARTITION TYPES - TYP. DETAILS
N.T.S.

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
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Corpus Christi, TX. 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
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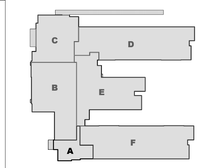
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323



EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
PARTITION TYPES

A-600

AREA "A" — DOOR SCHEDULE

Door #	LOCATION	HARDWARE SET	ACCESS CONTROL	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING	ROOM SIGN TYPE	RAISED/PRINTED TEXT	REMARKS
A100A	SECURE LOBBY	C714AM	CARD READER	6'-0"	7'-0"	STO-1	ALUM	GL-2	A	ALUM	--	--	--	--	--	--	NOTES 1,5,8
A100B	SECURE LOBBY	C710ACM	CARD READER	6'-0"	7'-0"	STO-2	ALUM	GL-4	G	ALUM	--	--	--	--	D, E	--	NOTES 1,5,8
A101	STORAGE	203	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	5/A-500	4/A-500	6/A-500	--	A	STORAGE	--
A102	CLERK OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	5/A-500	4/A-500	6/A-500	--	B	CLERK OFFICE	--
A103	ASSIST. PRINCIPAL	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	5/A-500	4/A-500	6/A-500	--	B	ASSISTANT PRINCIPAL	NOTE 1
A104	IDF	CE201	CARD READER	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	IDF	NOTE 1
A105A	STORAGE	203	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	STORAGE	--
A105B	STORAGE	201	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	STORAGE	--
A106	I.T. OFFICE	CE203	CARD READER	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	I.T. OFFICE	NOTE 1
A107	DEAN	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	DEAN	--
A108	DETENTION	501	--	3'-0"	7'-0"	SNL-2	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	DETENTION	--
A109	NURSE	CE201	CARD READER	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	5/A-500	4/A-500	6/A-500	--	A	NURSE	NOTES 1, 5
A110	PRINCIPAL	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	5/A-500	4/A-500	6/A-500	--	B	PRINCIPAL	--
A111	ASSIST. PRINCIPAL	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	5/A-500	4/A-500	6/A-500	--	B	ASSISTANT PRINCIPAL	--
A112	STORAGE	203S	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	5/A-500	4/A-500	6/A-500	--	A	STORAGE	--
A113	FRONT OFFICE	CE201	CARD READER	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	5/A-500	4/A-500	6/A-500	--	A	FRONT OFFICE	NOTES 1, 5

AREA "B" — DOOR SCHEDULE

Door #	LOCATION	HARDWARE SET	ACCESS CONTROL	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING	ROOM SIGN TYPE	RAISED/PRINTED TEXT	REMARKS
B100	MAKERS SPACE	212	--	6'-0"	7'-0"	SNL-2	WD	GL-1	HMD8	HM	--	--	--	--	B	MAKERS SPACE	--
B101A	MAKERS SHOP	412S	--	6'-0"	7'-0"	SNL-2	WD	GL-1	HMD8	HM	--	--	--	--	A	MAKERS SHOP	--
B101B	MAKERS SHOP	201C	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	5/A-500	4/A-500	6/A-500	--	A	MAKERS SHOP	--
B102	PRINT ROOM	401CW	--	4'-0"	7'-0"	FL-2	WD	GL-1	HMD7	HM	5/A-500	4/A-500	6/A-500	--	A	PRINT ROOM	--
B103	MS SCIENCE CLASSRM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	5/A-500	4/A-500	6/A-500	--	B	MS SCIENCE CLASSROOM	--
B104	MEETING	501	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	5/A-500	4/A-500	6/A-500	--	A	MEETING	--
B105	STORAGE	203	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	5/A-500	4/A-500	6/A-500	--	A	STORAGE	--
B106	BOYS DRESSING	801	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	5/A-500	4/A-500	6/A-500	--	C	BOYS DRESSING ROOM	--
B107	COACH OFFICE	103	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	5/A-500	4/A-500	6/A-500	--	B	COACH OFFICE	--
B108	GIRLS DRESSING	801	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	5/A-500	4/A-500	6/A-500	--	C	GIRLS DRESSING ROOM	--
B109	STORAGE	203	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	5/A-500	4/A-500	6/A-500	--	A	STORAGE	--
B110A	GYM	C714M	CARD READER	6'-0"	7'-0"	MD-1	HM	GL-2	HMD8	HM	--	--	--	--	A, E	GYMNASIUM	NOTE 8
B110B	GYM	C714M	CARD READER	6'-0"	7'-0"	MD-1	HM	GL-2	HMD8	HM	--	--	--	--	A, E	GYMNASIUM	NOTE 8
B110C	GYM	700MR	--	6'-0"	7'-0"	SNL	WD	GL-1	HMD8	HM	--	--	--	--	A	GYMNASIUM	NOTE 8
B110D	GYM	700MR	--	6'-0"	7'-0"	SNL	WD	GL-1	HMD8	HM	--	--	--	--	A	GYMNASIUM	NOTE 8

AREA "C" — DOOR SCHEDULE

Door #	LOCATION	HARDWARE SET	ACCESS CONTROL	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING	ROOM SIGN TYPE	RAISED/PRINTED TEXT	REMARKS
C100	GIRLS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	GIRLS RESTROOM	--
C101	BOYS RESTROOM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	BOYS RESTROOM	--
C102A	CORRIDOR	501	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	--	--	--
C102B	CORRIDOR	501	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	--	--	--
C103A	CAFETERIA	C714AM	CARD READER	6'-0"	7'-0"	STO-1	ALUM	GL-2	B1	ALUM	5/A-501	5/A-501 SIM.	25/A-501	--	A	CAFETERIA	NOTE 8
C103B	CAFETERIA	C714AM	CARD READER	6'-0"	7'-0"	STO-1	ALUM	GL-2	B2	ALUM	5/A-501	5/A-501 SIM.	25/A-501	--	A	CAFETERIA	NOTE 8
C103C	CAFETERIA	700ACMR	--	6'-0"	7'-0"	STO	ALUM	GL-1	H	ALUM	5/A-501	5/A-501 SIM.	25/A-501	--	A	CAFETERIA	NOTE 8
C103D	CAFETERIA	700ACMR	--	6'-0"	7'-0"	STO	ALUM	GL-1	H	ALUM	5/A-501	5/A-501 SIM.	25/A-501	--	A	CAFETERIA	NOTE 8
C104	FURNITURE STORAGE	212S	--	6'-0"	7'-0"	FL-1	WD	--	HMD8	HM	3/A-502	4/A-502	23/A-501	--	A	FURNITURE STORAGE	--
C107A	CORRIDOR	731	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	--	CAFETERIA	NOTE 8
C107B	CORRIDOR	C714AM	CARD READER	3'-0"	7'-0"	STO-1	ALUM	GL-2	C	HM	3/A-502	4/A-502	23/A-501	--	--	--	NOTE 8
C108	RISER ROOM	205	--	3'-0"	7'-0"	MD	HM	--	HMD3	HM	1/A-502	1/A-502 SIM.	2/A-502	--	A	FIRE RISER ROOM	NOTE 6
C109	JANITOR	203T	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	JANITOR	--
C111A	SERVING KIOSK	507T	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	SERVING KIOSK	--
C111B	SERVING KIOSK	CE715TW	CARD READER	4'-0"	7'-0"	MD-2	HM	GL-2	HMD4	HM	16/A-501	18/A-501	23/A-501	--	A, D, E	SERVING KIOSK	NOTE 8
C111C	SERVING KIOSK	--	--	18'-0"	4'-0"	OC1	ALUM	--	OC1	ALUM	16/A-501	18/A-501	23/A-501	--	--	--	--
C112	OFFICE	103T	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD7A	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
C113	DRY STORAGE	503T	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	DRY STORAGE	--
C114	STORAGE	201	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	ROOF ACCESS	NOTE 6

AREA "D" — DOOR SCHEDULE

Door #	LOCATION	HARDWARE SET	ACCESS CONTROL	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING	ROOM SIGN TYPE	RAISED/PRINTED TEXT	REMARKS
D100	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D101	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D102	TEACHERS LOUNGE	101	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	TEACHERS LOUNGE	--
D103	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D104	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D105	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D106	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D107	GIRLS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	GIRLS RESTROOM	--
D108	BOYS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	BOYS RESTROOM	--
D109	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D110	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D111	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D112	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D113	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D114	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D115	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D116	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
D117	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	RESTROOM	--
D118	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	RESTROOM	--
D119	JANITOR	203S	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	JANITOR	--
D120	ELECTRICAL	201C	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	45 MIN.	A	ELECTRICAL	NOTE 6
D121	IDF	CE201C	CARD READER	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	IDF	--
D122	SMALL CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	SMALL CLASSROOM	--
D123	SMALL CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	SMALL CLASSROOM	--
D124	BIO-MED LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	BIO-MED LAB	--
D124A	PREP/ STORAGE	203	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	PREP/ STORAGE	--
D125	ENGINEERING LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	ENGINEERING LAB	--
D126	ESL	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	ESL	--
D127	MS SCIENCE LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	MS SCIENCE LAB	--
D128A	CORRIDOR	C714AM	CARD READER	6'-0"	7'-0"	STO-1	ALUM	GL-2	G	ALUM	--	--	--	--	D, E	--	NOTE 8
D128C	CORRIDOR	--	--	10'-0"	10'-11"	ACC	REFER SPEC	--	ACC	REFER SPEC	--	--	--	2 HR	D, E	--	REFER SHEET A-701

DOOR SCHEDULE NOTES:

1. REFER TO ELECTRICAL AND SECURITY DRAWINGS FOR DOOR ELECTRONIC AND ACCESS REQUIREMENTS, COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.
2. PROVIDE OVERHEAD COILING GRILLE AS PER WINDOW TYPES ON SHEET A-605 AND SPECIFICATIONS.
3. PROVIDE DOOR GLAZING AS PER "GLAZING SCHEDULE" AND DOOR ELEVATIONS.
4. PROVIDE OVERHEAD COUNTER COILING DOORS AS PER WINDOW TYPES ON SHEET A-605 AND SPECIFICATIONS.
5. PROVIDE BACKER PLATE TO MATCH SIGN TYPE "E" AT GLAZING LOCATIONS
6. CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL OFFICE AND PROVIDE/INSTALL ANY ADDITIONAL INTERIOR OR EXTERIOR SIGNAGE

GLAZING SCHEDULE

GL-1: 1/4" THICK CLEAR TEMPERED GLASS

GL-2: 1" THICK LOW-E COATED INSULATED TEMPERED GLASS

GL-3: 7/8" THICK CLEAR GLASS CLAD POLY CARBONATE GLAZING

GL-4: 1 1/4" THICK CLEAR LAMINATED POLY CARBONATE GLAZING

GENERAL DOOR AND GLAZING GENERAL NOTES:

1. ALL GROUND FLOOR GLAZED EXTERIOR ALUMINUM ENTRANCE AND ADJACENT GLAZED EXTERIOR STOREFRONT (FULL HEIGHT AND WIDTH OF STOREFRONT) TO RECEIVE SAFETY AND SECURITY FILM, ATTACHMENT SEALANT TO MATCH COLOR OF STOREFRONT.
2. CONTRACTOR TO PROVIDE AND INSTALL PRE-FINISHED/PAINTED METAL LIGHT FRAME KIT AT ALL LIGHT FRAME OPENINGS.
3. CONTRACTOR TO PROVIDE AND INSTALL PRE-FINISHED/PAINTED LIGHT FRAME KIT TO ACCOMMODATE ¼" GLASS-CLAD POLYCARBONATE SECURITY GLAZING AT ALL CLASSROOMS AND MULTI PURPOSE ROOMS.
4. REFER TO OPENING ELEVATIONS FOR WINDOW TREATMENT LOCATIONS, COORDINATE WITH ELECTRICAL AS REQUIRED FOR POWERED WINDOW TREATMENT.
5. PROVIDE AN ACCESSIBLE INTERIOR ROOM SIGN FOR EACH DOOR, PROVIDE BACKING PLATE AS NEEDED.
6. REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE.

OPENINGS SCHEDULE LEGEND

ALUM	= ALUMINUM FRAME
CO	= CASED OPENING (AT GROUP RESTROOMS/ SERVING KIOSK)
FL-1	= FLUSH WOOD DOOR, 3'-0" WIDE
FL-2	= FLUSH WOOD DOOR, 4'-0" WIDE
HM	= HOLLOW METAL
HM#	= HOLLOW METAL FRAME (WINDOWS)
HMD#	= HOLLOW METAL FRAME (DOORS)
MD	= HOLLOW METAL
MD-1	= HOLLOW METAL DOOR WITH SHORT NARROW LITE WITH GL-2 , 3'-0" WIDE
MD-2	= HOLLOW METAL DOOR WITH SHORT NARROW LIGHT WITH GL-2 , 4'-0" WIDE
OC1	= COILING COUNTER TOP DOOR (INTERIOR)
ACC	= ACCORDION FIRE SEPARATION DOOR
OH#	= OVERHEAD COILING SECURITY GRILLE DOOR
S#	= SLIDING WINDOWS
SNL	= SHORT NARROW LITE WITH GL-1
SNL-1	= SHORT NARROW LITE WITH GL-3(SECURE)
SNL-2	= WOOD DOOR WITH 2 , GL-1 PANELS
STO	= ALUM. STOREFRONT (INTERIOR)
STO-1	= ALUM. STOREFRONT (EXTERIOR)
STO-2	= ALUM. STOREFRONT (SECURITY)
W#	= ALUMINUM STOREFRONT
WD	= PLASTIC LAMINATE FACED WOOD
WT-1	= ROLLER WINDOW SHADES (MANUAL)
WT-2	= ROLLER WINDOW SHADES (MOTORIZED)

WINDOW SCHEDULE

WINDOW MARK	FRAME WIDTH	FRAME HEIGHT	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	DETAILS WINDOW TREATMENT	REMARKS
W1	19'-9"	3'-0"	ALUM.	--	--	--	WT-2	--
W2	5'-0"	6'-0"	ALUM.	--	--	--	WT-1	--
W3	7'-6"	6'-0"	ALUM.	--	--	--	WT-1	--
W4	7'-6"	6'-0"	ALUM.	--	--	--	WT-1	--
W5A	6'-0"	6'-0"	ALUM	--	--	--	WT-1	--
W5B	6'-0"	4'-0"	ALUM.	--	--	--	WT-1	--
W6A	6'-0"	6'-0"	ALUM	--	--	--	WT-1	--
W6B	6'-0"	4'-0"	ALUM.	--	--	--	WT-1	--
W7	13'-1"	6'-0"	ALUM	--	--	--	WT-1	--
W8	8'-0"	4'-0"	ALUM.	--	--	--	WT-1	--
HM1	12'-0"	3'-6"	HOLLOW METAL	--	--	--	WT-2	--
HM2	8'-0"	3'-6"	HOLLOW METAL	--	--	--	WT-1	--
HM3	3'-0"	3'-6"	HOLLOW METAL	--	--	--	--	--
HM4	2'-8"	3'-6"	HOLLOW METAL	--	--	--	WT-1	--
HM5	4'-0"	3'-6"	HOLLOW METAL		--	--	WT-1	--
HM6	16'-0"	3'-6"	HOLLOW METAL				WT-2	
HMD7A	2'-8"	3'-6"	HOLLOW METAL	--	--	--	WT-1	--
S1	4'-0"	4'-0"	SEC. ALUM.	--	--	--	WT-1	--
S2	4'-0"	4'-0"	ALUM.				WT-1	

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EXPIRATION DATE 11/30/2026

SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
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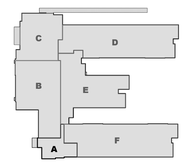

KEYPLAN

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Drawn: RD
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Revisions:

No.	Description	Date

Sheet Title:

DOOR AND WINDOW SCHEDULES

A-602

AREA "E" — DOOR SCHEDULE

Door #	LOCATION	HARDWARE SET	ACCESS CONTROL	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME HEAD DETAIL	FRAME JAMB DETAIL	SILL DETAIL	FIRE RATING	ROOM SIGN TYPE	RAISED/PRINTED TEXT	REMARKS
E100	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
E101	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
E102	SPED	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	SPED	--
E102A	STORAGE	203	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	RESTROOM	--
E103	ELECTRICAL	201	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	45 MIN.	A	ELECTRICAL	NOTE 6
E104	LIFE SKILLS LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	45 MIN.	A	LIFE SKILLS LAB	--
E104A	RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	RESTROOM	--
E104B	STORAGE	203	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	STORAGE	--
E105A	ART LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	ART LAB	--
E105B	ART LAB	205A	--	3'-0"	7'-0"	STO-1	ALUM	GL-2	E	ALUM	24/A-501 SIM.	24/A-501 SIM.	25/A-501	--	B	ART LAB	--
E106	MS SCIENCE CLASSRM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	MS SCIENCE CLASSROOM	--
E108	TECHNOLOGY LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	TECHNOLOGY LAB	--
E109	CHEMISTRY LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	CHEMISTRY LAB	--
E109A	PREP/ STORAGE	203	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	PREP/ STORAGE	--
E110	ELECTRICAL	201C	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	45 MIN.	A	ELECTRICAL	NOTE 6
E110A	SERVER	CE201	CARD READER	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	SERVER	--
E111	GIRLS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	GIRLS RESTROOM	--
E112	BOYS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	BOYS RESTROOM	--
E113	GIFTED & TALENTED	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	GIFTED & TALENTED	--
E114	PHYSICS LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	PHYSICS LAB	--
E114A	PREP / STORAGE	203	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	PREP / STORAGE	--
E115	OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
E116	OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
E117	OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
E118	OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD5	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
E119	OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
E120	OFFICE	103	--	3'-0"	7'-0"	FL-1	WD	GL-1	HMD6	HM	16/A-501	18/A-501	23/A-501	--	B	OFFICE	--
E121	ERRS ROOM	201C	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	90 MIN.	A	EMERGENCY RESPONSER COMMUNICATION SYSTEM	--
E122	COORIDNATOR	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	COORIDNATOR	--
E122A	TEST STORE	201	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	TESTING STORAGE	--
E123	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
E124	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
E125	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
E126	BIOLOGY LAB	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	BIOLOGY LAB	--
E126A	PREP/ STORAGE	203	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	PREP/ STORAGE	--
E127	TECHNOLOGY	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	TECHNOLOGY LAB	--
E128A	CORRIDOR	C715AM	CARD READER	6'-0"	7'-0"	STO-1	ALUM	GL-2	F	ALUM	--	--	--	--	D, E	--	NOTE 8
E129	MS SCIENCE CLASSRM	501	--	3'-0"	7'-0"	SNL-1	HM	GL-3	HMD3	HM	5/A-500	4/A-500	6/A-500	--	B	MS SCIENCE CLASSROM	--
E130	SMALL CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	HM	GL-3	HMD3	HM	5/A-500	4/A-500	6/A-500	--	B	SMALL CLASSROOM	--
E131	OUTDOOR STORAGE	214	--	6'-0"	7'-0"	MD	HM	--	HMD8	HM	--	--	--	--	A	OUTDOOR STORAGE	--

AREA "F" — DOOR SCHEDULE

Door #	LOCATION	HARDWARE SET	ACCESS CONTROL	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME HEAD DETAIL	FRAME JAMB DETAIL	SILL DETAIL	FIRE RATING	ROOM SIGN TYPE	RAISED/PRINTED TEXT	REMARKS
F100	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F102	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F103	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F104	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F105	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F106	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F107	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F108	ELECTRICAL	201C	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	45 MIN.	A	ELECTRICAL	--
F109	JANITOR	203S	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	JANITOR	--
F110	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
F111	STAFF RESTRM	341	--	3'-0"	7'-0"	FL-1	WD	--	HMD3	HM	16/A-501	18/A-501	23/A-501	--	C	STAFF RESTROOM	--
F112	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F113	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F114	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F115	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F116	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F117	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F118	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F119	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F120	GIRLS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	GIRLS RESTROOM	--
F121	BOYS RESTRM	--	--	3'-0"	7'-0"	--	CASED OPENING	--	HMD1	HM	16/A-501	18/A-501	23/A-501	--	C	BOYS RESTROOM	--
F122	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F123	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F124	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F125	CLASSROOM	501	--	3'-0"	7'-0"	SNL-1	WD	GL-3	HMD3	HM	16/A-501	18/A-501	23/A-501	--	B	CLASSROOM	--
F126	TEACHERS LOUNGE	101	--	3'-0"	7'-0"	SNL	WD	GL-1	HMD3	HM	16/A-501	18/A-501	23/A-501	--	A	TEACHERS LOUNGE	--
F127A	CORRIDOR	C714AM	CARD READER	6'-0"	7'-0"	STO-1	ALUM	GL-2	D	ALUM	--	--	--	--	D, E	--	NOTE 1,5,8

OPENINGS SCHEDULE LEGEND

ALUM	= ALUMINUM FRAME
CO	= CASED OPENING (AT GROUP RESTROOMS/ SERVING KIOSK)
FL-1	= FLUSH WOOD DOOR, 3'-0" WIDE
FL-2	= FLUSH WOOD DOOR, 4'-0" WIDE
HM	= HOLLOW METAL
HM#	= HOLLOW METAL FRAME (WINDOWS)
HMD#	= HOLLOW METAL FRAME (DOORS)
MD	= HOLLOW METAL
MD-1	= HOLLOW METAL DOOR WITH SHORT NARROW LITE WITH GL-2 , 3'-0" WIDE
MD-2	= HOLLOW METAL DOOR WITH SHORT NARROW LIGHT WITH GL-2 , 4'-0" WIDE
OC1	= COILING COUNTER TOP DOOR (INTERIOR)
ACC	= ACCORDION FIRE SEPARATION DOOR
OH#	= OVERHEAD COILING SECURITY GRILLE DOOR
S#	= SLIDING WINDOWS
SNL	= SHORT NARROW LITE WITH GL-1
SNL-1	= SHORT NARROW LITE WITH GL-3(SECURE)
SNL-2	= WOOD DOOR WITH 2 , GL-1 PANELS
STO	= ALUM. STOREFRONT (INTERIOR)
STO-1	= ALUM. STOREFRONT (EXTERIOR)
STO-2	= ALUM. STOREFRONT (SECURITY)
W#	= ALUMINUM STOREFRONT
WD	= PLASTIC LAMINATE FACED WOOD
WT-1	= ROLLER WINDOW SHADES (MANUAL)
WT-2	= ROLLER WINDOW SHADES (MOTORIZED)

GLAZING SCHEDULE

GL-1: 1/4" THICK CLEAR TEMPERED GLASS

GL-2: 1" THICK LOW-E COATED INSULATED TEMPERED GLASS

GL-3: 7/8" THICK CLEAR GLASS CLAD POLY CARBONATE GLAZING

GL-4: 1 1/4" THICK CLEAR LAMINATED POLY CARBONATE GLAZING

GENERAL DOOR AND GLAZING GENERAL NOTES:

1. ALL GROUND FLOOR GLAZED EXTERIOR ALUMINUM ENTRANCE AND ADJACENT GLAZED EXTERIOR STOREFRONT (FULL HEIGHT AND WIDTH OF STOREFRONT) TO RECEIVE SAFETY AND SECURITY FILM, ATTACHMENT SEALANT TO MATCH COLOR OF STOREFRONT.
2. CONTRACTOR TO PROVIDE AND INSTALL PRE-FINISHED/PAINTED METAL LIGHT FRAME KIT AT ALL LIGHT FRAME OPENINGS.
3. CONTRACTOR TO PROVIDE AND INSTALL PRE-FINISHED/PAINTED LIGHT FRAME KIT TO ACCOMMODATE 1/4" GLASS-CLAD POLYCARBONATE SECURITY GLAZING AT ALL CLASSROOMS AND MULTI PURPOSE ROOMS.
4. REFER TO OPENING ELEVATIONS FOR WINDOW TREATMENT LOCATIONS, COORDINATE WITH ELECTRICAL AS REQUIRED FOR POWERED WINDOW TREATMENT.
5. PROVIDE AN ACCESSIBLE INTERIOR ROOM SIGN FOR EACH DOOR, PROVIDE BACKING PLATE AS NEEDED.
6. REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE.

DOOR SCHEDULE NOTES:

1. REFER TO ELECTRICAL AND SECURITY DRAWINGS FOR DOOR ELECTRONIC AND ACCESS REQUIREMENTS, COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.
2. PROVIDE OVERHEAD COILING GRILLE AS PER WINDOW TYPES ON SHEET A-605 AND SPECIFICATIONS.
3. PROVIDE DOOR GLAZING AS PER "GLAZING SCHEDULE" AND DOOR ELEVATIONS.
4. PROVIDE OVERHEAD COUNTER COILING DOORS AS PER WINDOW TYPES ON SHEET A-605 AND SPECIFICATIONS.
5. PROVIDE BACKER PLATE TO MATCH SIGN TYPE "E" AT GLAZING LOCATIONS
6. CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL OFFICE AND PROVIDE/INSTALL ANY ADDITIONAL INTERIOR OR EXTERIOR SIGNAGE

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

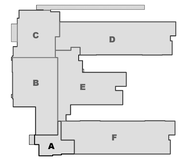
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

EXPIRATION DATE 11/30/2026 — SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

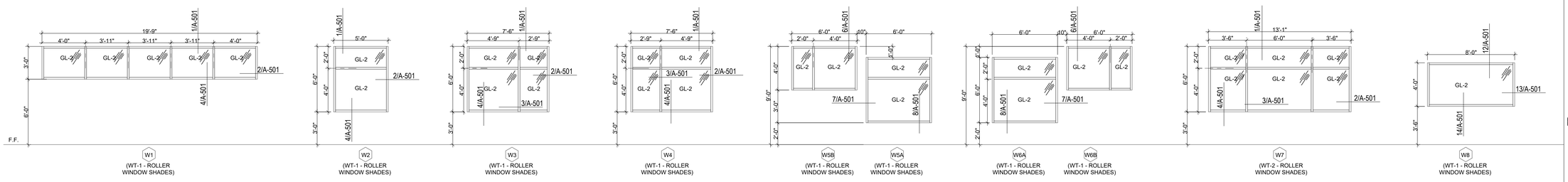
Revisions:

No.	Description	Date

Sheet Title:

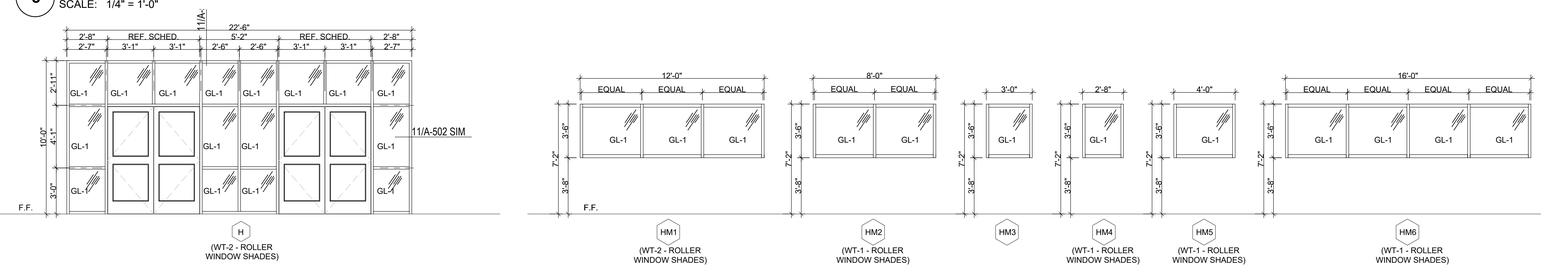
DOOR SCHEDULES

A-603



ALUMINUM-FRAMED STOREFRONT

8 ALUMINUM-FRAMED STOREFRONTS ELEVATIONS
SCALE: 1/4" = 1'-0"



ALUMINUM-FRAMED ENTRANCES AND STOREFRONT

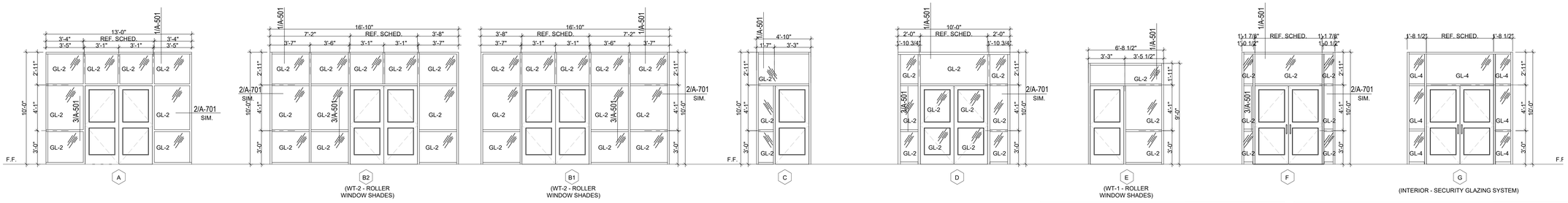
HOLLOW METAL FRAME WINDOWS

TRANSACTION WINDOWS

5 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS ELEVATIONS
SCALE: 1/4" = 1'-0"

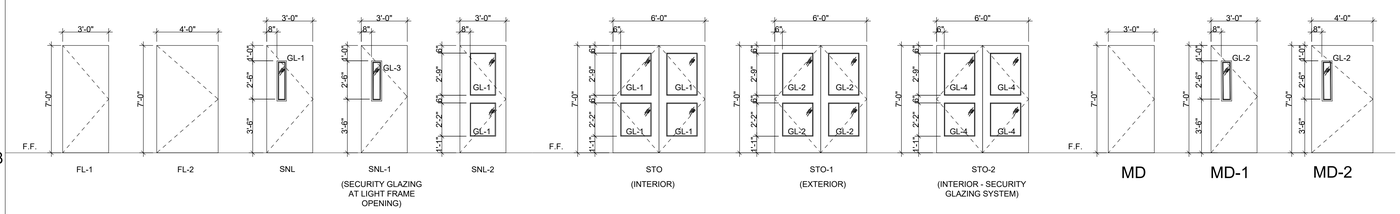
6 HOLLOW METAL FRAME WINDOW ELEVATIONS
SCALE: 1/4" = 1'-0"

7 TRANSACTION WINDOW ELEVATIONS
SCALE: 1/4" = 1'-0"



ALUMINUM-FRAMED ENTRANCES AND STOREFRONT

4 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS ELEVATIONS
SCALE: 1/4" = 1'-0"



PLASTIC LAMINATE FACED WOOD DOORS

ALUMINUM-FRAMED ENTRANCES

HOLLOW METAL DOORS

OPENINGS SCHEDULE LEGEND

ALUM	= ALUMINUM FRAME
CO	= CASED OPENING (AT GROUP RESTROOMS/ SERVING KIOSK)
FL-1	= FLUSH WOOD DOOR, 3'-0" WIDE
FL-2	= FLUSH WOOD DOOR, 4'-0" WIDE
HM	= HOLLOW METAL
HM#	= HOLLOW METAL FRAME (WINDOWS)
HMD#	= HOLLOW METAL FRAME (DOORS)
MD	= HOLLOW METAL
MD-1	= HOLLOW METAL DOOR WITH SHORT NARROW LITE WITH GL-2 , 3'-0" WIDE
MD-2	= HOLLOW METAL DOOR WITH SHORT NARROW LIGHT WITH GL-2 , 4'-0" WIDE
OC1	= COILING COUNTER TOP DOOR (INTERIOR)
OH#	= OVERHEAD COILING SECURITY GRILLE DOOR
S#	= SLIDING WINDOWS
SNL	= SHORT NARROW LITE WITH GL-1
SNL-1	= SHORT NARROW LITE WITH GL-3(SECURE)
SNL-2	= WOOD DOOR WITH 2 , GL-1 PANELS
STO	= ALUM. STOREFRONT (INTERIOR)
STO-1	= ALUM. STOREFRONT (EXTERIOR)
STO-2	= ALUM. STOREFRONT (SECURITY)
W#	= ALUMINUM STOREFRONT
WD	= PLASTIC LAMINATE FACED WOOD
WT-1	= ROLLER WINDOW SHADES (MANUAL)
WT-2	= ROLLER WINDOW SHADES (MOTORIZED)

GLAZING SCHEDULE

GL-1: 1/4" THICK CLEAR TEMPERED GLASS

GL-2: 1" THICK LOW-E COATED INSULATED TEMPERED GLASS

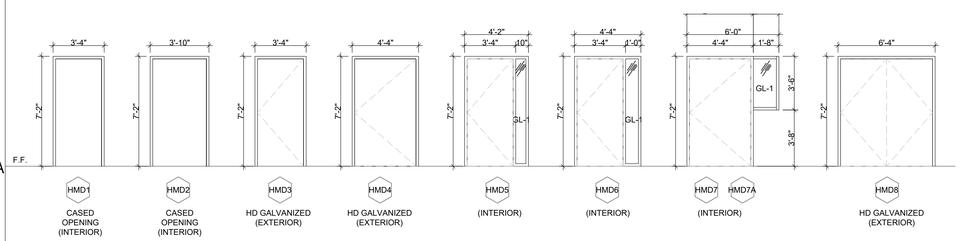
GL-3: 7/8" THICK CLEAR GLASS CLAD POLY CARBONATE GLAZING

GL-4: 1 ¼" THICK CLEAR LAMINATED POLY CARBONATE GLAZING

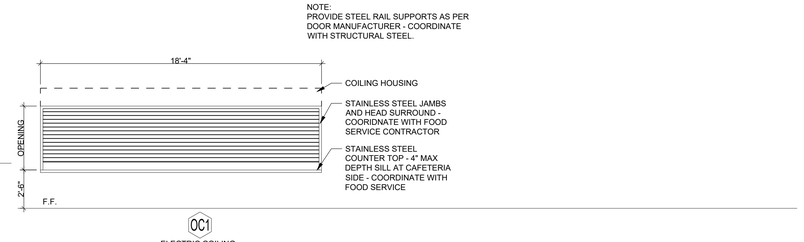
GENERAL DOOR AND GLAZING GENERAL NOTES:

1. ALL GROUND FLOOR GLAZED EXTERIOR ALUMINUM ENTRANCE AND ADJACENT GLAZED EXTERIOR STOREFRONT (FULL HEIGHT AND WIDTH OF STOREFRONT) TO RECEIVE SAFETY AND SECURITY FILM, ATTACHMENT SEALANT TO MATCH COLOR OF STOREFRONT.
2. CONTRACTOR TO PROVIDE AND INSTALL PRE-FINISHED/PAINTED METAL LIGHT FRAME KIT AT ALL LIGHT FRAME OPENINGS.
3. CONTRACTOR TO PROVIDE AND INSTALL PRE-FINISHED/PAINTED LIGHT FRAME KIT TO ACCOMMODATE 7/8" GLASS-CLAD POLYCARBONATE SECURITY GLAZING AT ALL CLASSROOMS AND MULTI PURPOSE ROOMS.
4. REFER TO OPENING ELEVATIONS FOR WINDOW TREATMENT LOCATIONS, COORDINATE WITH ELECTRICAL AS REQUIRED FOR POWERED WINDOW TREATMENT.
5. PROVIDE AN ACCESSIBLE INTERIOR ROOM SIGN FOR EACH DOOR, PROVIDE BACKING PLATE AS NEEDED.
6. REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE.

3 DOOR ELEVATIONS
SCALE: 1/4" = 1'-0"



HOLLOW METAL FRAMES



COILING DOORS

2 DOOR FRAMES
SCALE: 1/4" = 1'-0"

2 COILING DOORS ELEVATIONS
SCALE: 1/4" = 1'-0"

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T 956.365.4820
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Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
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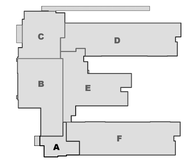
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT RAYMOND D. GIGNAC 22995 STATE OF TEXAS

EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

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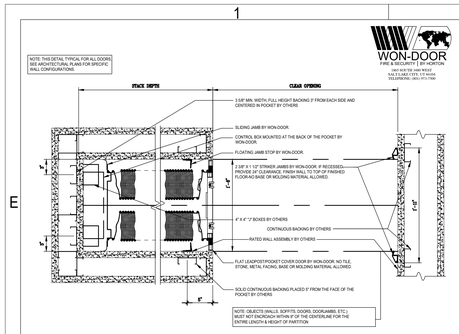
Sheet Title:

OPENINGS TYPES

A-605



POCKET & STRIKER DETAIL
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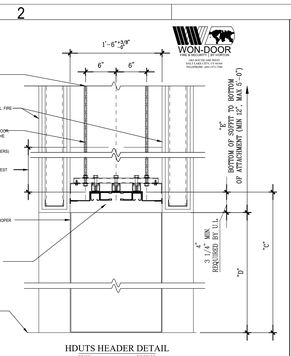

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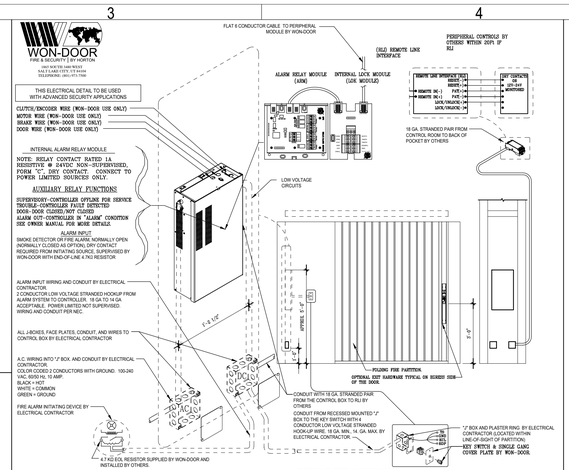

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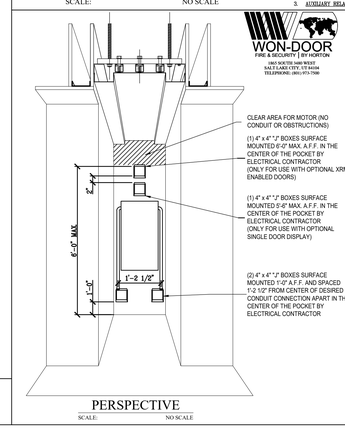

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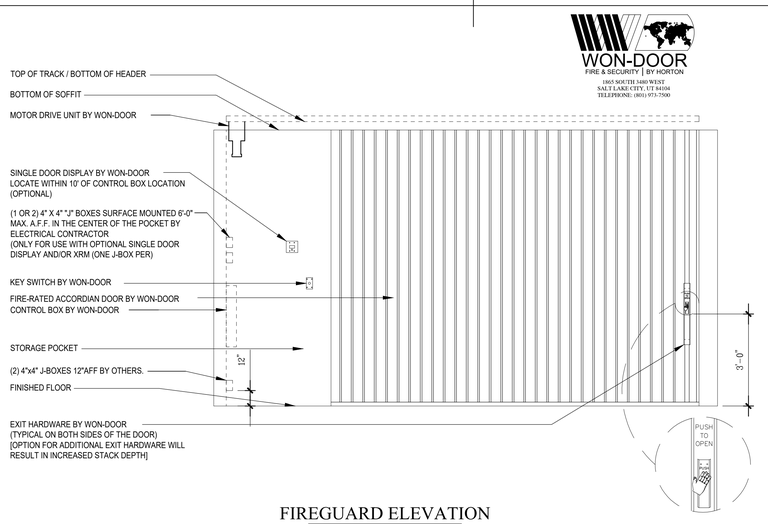
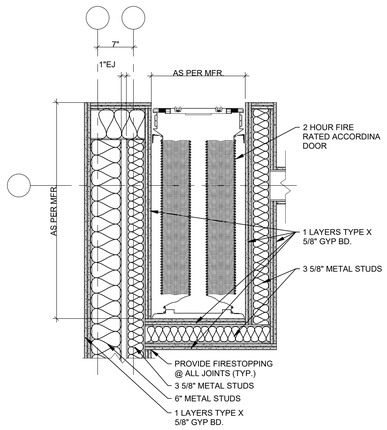
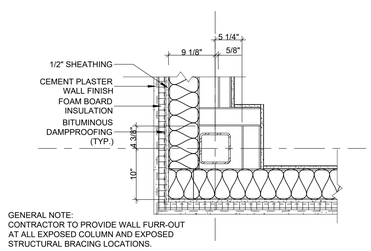


FIREGUARD ELEVATION
SCALE: NO SCALE

3 WON DOOR FIRE RATED ACCORDION DOOR DETAILS
SCALE: NTS



9 PLAN DETAIL
SCALE: 1" = 1'-0"



5 PLAN DETAIL
SCALE: 1" = 1'-0"

WON-DOOR
FIRE & SECURITY | BY HORTON
1865 SOUTH 3480 WEST
SALT LAKE CITY, UT 84104
TELEPHONE: (801) 973-7500

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REGISTERED ARCHITECT
RAYMOND C. GIGNAC
STATE OF TEXAS
6236

EXPIRATION DATE 11/30/2026
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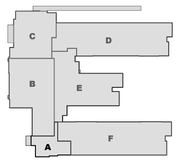

KEYPLAN

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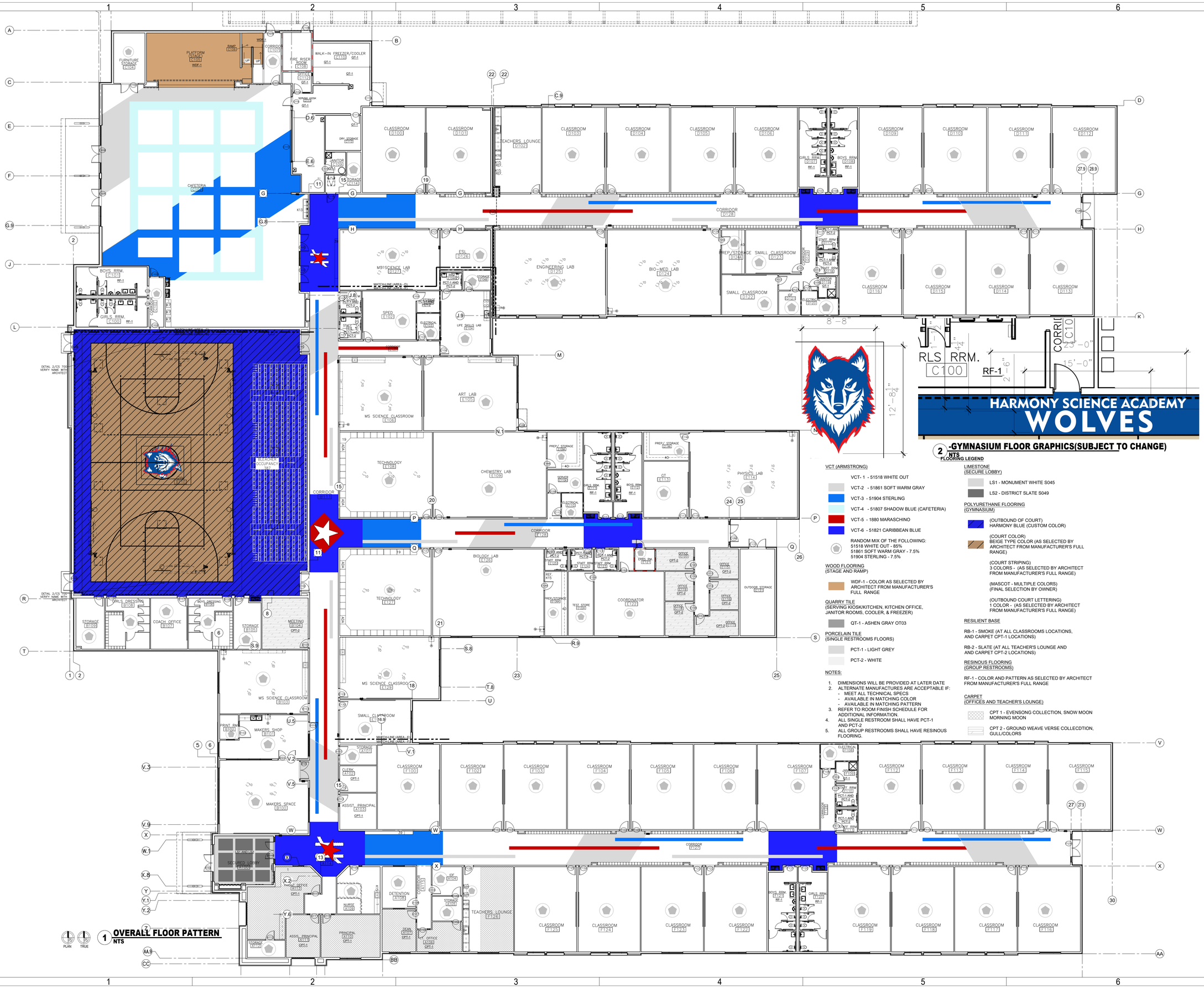
Sheet Title:
PLAN DETAILS

A-701



1 **OVERALL FLOOR PATTERN**
NTS

2 **-GYMNASIUM FLOOR GRAPHICS(SUBJECT TO CHANGE)**
NTS

FLOORING LEGEND

VCT (ARMSTRONG)
- VCT- 1 - 51518 WHITE OUT
- VCT-2 - 51861 SOFT WARM GRAY
- VCT-3 - 51904 STERLING
- VCT-4 - 51807 SHADOW BLUE (CAFETERIA)
- VCT-5 - 1880 MARASCHINO
- VCT-6 - 51821 CARIBBEAN BLUE
- RANDOM MIX OF THE FOLLOWING: 51518 WHITE OUT - 85% 51861 SOFT WARM GRAY - 7.5% 51904 STERLING - 7.5%

WOOD FLOORING (STAGE AND RAMP)
- WDF-1 - COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE

QUARRY TILE (SERVING KIOSK/KITCHEN OFFICE, JANITOR ROOMS, COOLER, & FREEZER)
- QT-1 - ASHEN GRAY OT03

PORCELAIN TILE (SINGLE RESTROOMS FLOORS)
- PCT-1 - LIGHT GREY
- PCT-2 - WHITE

NOTES:
1. DIMENSIONS WILL BE PROVIDED AT LATER DATE
2. ALTERNATE MANUFACTURES ARE ACCEPTABLE IF:
   - MEET ALL TECHNICAL SPECS
   - AVAILABLE IN MATCHING COLOR
   - AVAILABLE IN MATCHING PATTERN
3. REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. ALL SINGLE RESTROOM SHALL HAVE PCT-1 AND PCT-2
5. ALL GROUP RESTROOMS SHALL HAVE RESINOUS FLOORING.

LIMESTONE (SECURE LOBBY)
- LS1 - MONUMENT WHITE S045
- LS2 - DISTRICT SLATE S049

POLYURETHANE FLOORING (GYMNASIUM)
- (OUTBOUND OF COURT) HARMONY BLUE (CUSTOM COLOR)
- (COURT COLOR) BEIGE TYPE COLOR (AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE)
- (COURT STRIPING) 3 COLORS - (AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE)
- (MASCOT - MULTIPLE COLORS) (FINAL SELECTION BY OWNER)
- (OUTBOUND COURT LETTERING) 1 COLOR - (AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE)

RESILIENT BASE
- RB-1 - SMOKE (AT ALL CLASSROOMS LOCATIONS, AND CARPET CPT-1 LOCATIONS)
- RB-2 - SLATE (AT ALL TEACHER'S LOUNGE AND AND CARPET CPT-2 LOCATIONS)

RESINOUS FLOORING (GROUP RESTROOMS)
- RF-1 - COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE

CARPET (OFFICES AND TEACHER'S LOUNGE)
- CPT 1 - EVENSONG COLLECTION, SNOW MOON MORNING MOON
- CPT 2 - GROUND WEAVE VERSE COLLECDTION, GULL/COLORS

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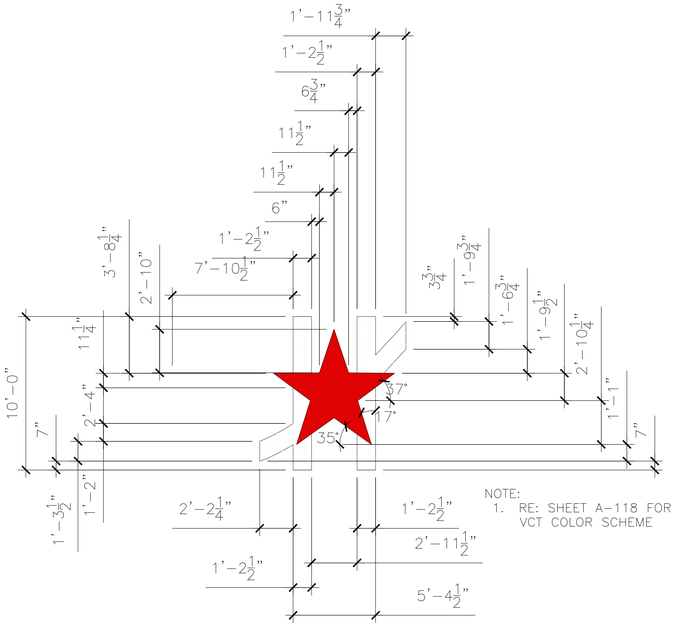
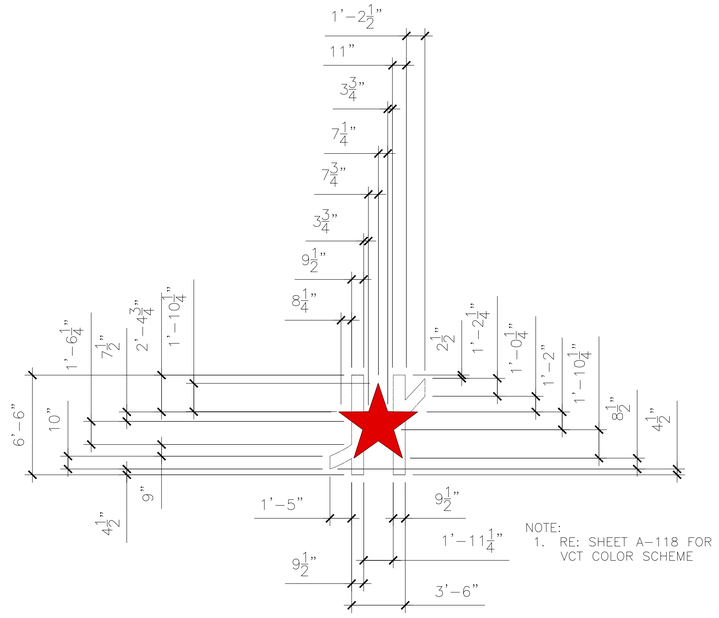
OVERALL FLOOR FINISH PATTERN

CS700



1 **VCT PATTERN DETAIL (10'-0")**
SCALE: 1/4" = 1'-0"



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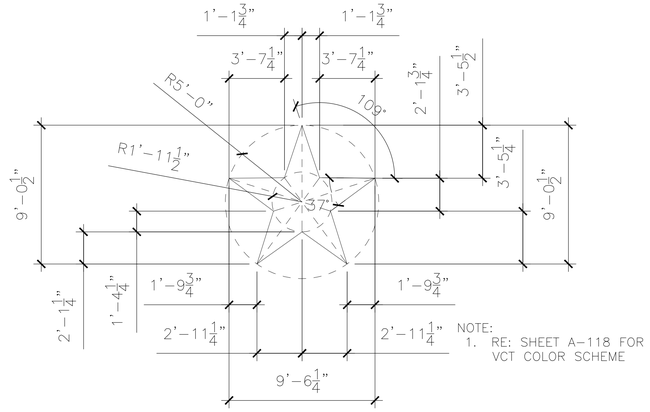
SCALE: 1/4" = 1'-0"



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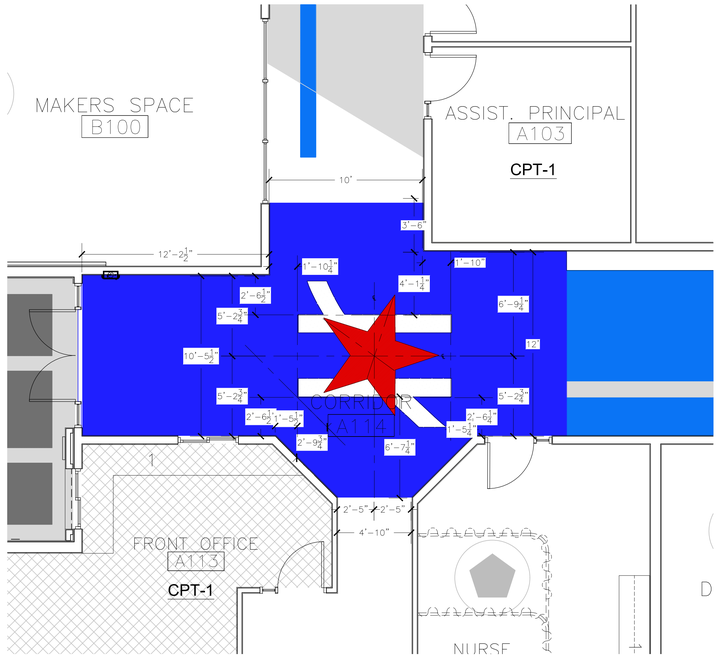
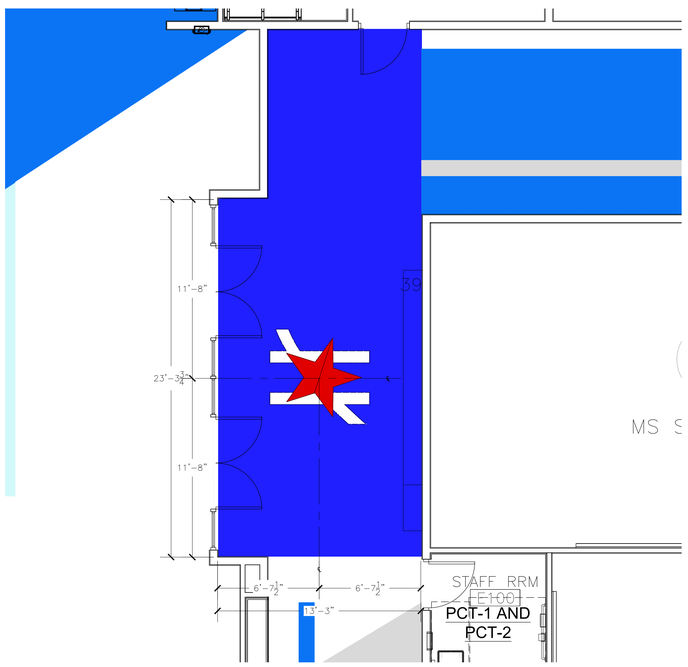
SCALE: 1/4" = 1'-0"



4 **VCT PATTERN DETAIL @ CORRIDOR A114**
SCALE: 1/4" = 1'-0"



5 **VCT PATTERN DETAIL @CAFETERIA ENTRANCE CORRIDOR B111**
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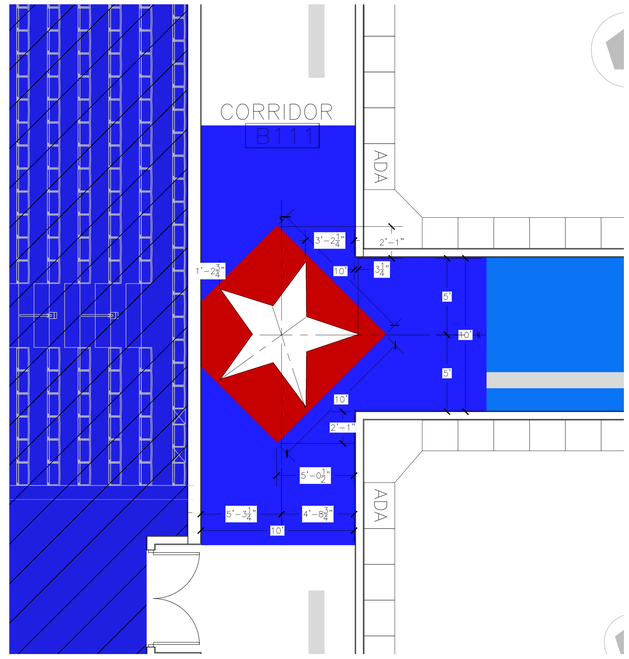

6 **VCT PATTERN DETAIL @CORRIDOR B111**
SCALE: 1/4" = 1'-0"

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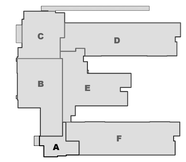

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Sheet Title:
ENLARGED FLOORING PATTERN

CS700A



COLOR SELECTION LEGEND

REFER TO OTHER CS SHEETS FOR TILE, FLOORING AND SPECIALTIES. ADDTIONAL COLOR SELECTIONS WILL BE PROVIDED AT A LATER DATE.

1 PPG 1001-2 - ARIA	10 PPG 1001-4 - FLAGSTONE
2 PPG 1014 - STORMY	11 PPG 1145-4 BLUE WILLOW
3 SW 6070 - HERON PLUME	12 SW 7542 - NATUREL
4 PP 1032-2 - HURRICANE HAZE	13 PPG 147-4 - AQUA FIESTA
5 PPG 10-04 - POLARIS	14 PPG 1236-6 - JAMAICAN SEA
6 PPG 1012-2 - INVERNESS GRAY	15 PPG 1156-5 - SMOKE BLUE
7 PPG 1150-4 - KINGSTON AQUA	16 SW6868 - REAL RED
8 SW 7005 - PURE WHITE	17 SW6966- BLUE BLOOD
9 PPG 10-09 - SOOTHING SAPPHIRE	18 PPG 101-2 - ELEMENTAL

PLASTIC LAMINATE

1. WILSONART 4651-60 - NAVY LEGACY
2. WILSONART 4877--38 - GRAY MESH
3. WILSONART 10776-60 - KENSINGTON
4. WILSONART 4168-60 - GRAY PAMPAS
5. FORMICA 9320-PA - BLUE FELT
6. WILSONART 485760 - SHADOW ZEPHYR

SOLID SURFACING

1. CORIAN - EVENING PRIMA
2. CORIAN - LINEN
3. CORIAN - CAMEO WHITE

PAINT ACCENT WALL LOCATION

- PAINTED ACCENT WALL
- DIGITAL GRAPHIC ON VWC
- PAINTED WALL GRAPHIC

VINYL WALL COVERING

KORSEAL DESERT SAND - PATRIOT BLUE - 59821-69 - FULL HEIGHT

COLOR SELECTION NOTES:

1. INTERIOR DOORS SHALL BE 3
2. INTERIOR PAINTED WINDOW AND DOOR FRAMES SHALL BE 10
3. ALL PAINTED CEILINGS AND FURR-DOWN SHALL BE 8 UNLESS OTHERWISE NOTED
4. ALL CLASSROOM CABINETS SHALL BE 6 COUNTERS WITH 5 CABINETS FACE
5. ALL WINDOW SILL SHALL BE 2
6. 6 IS TYPICAL WALL PAINT AT CORRIDORS, RESTROOMS, AND ANY ROOM NOT LABELED OR PROVIDED ON INTERIOR ELEVATIONS, COORDINATE WITH ARCHITECT.
7. INTERIOR CORRIDOR WALL TILE WAINSCOT TO BE A COMBINATION OF PCT-1 AND PCT-2, REFER TO DETAIL 16/CS-702 FOR TILE PATTERN.
8. REFER TO DETAIL 20/CS-702 FOR TILE PATTERN AT SINGLE RESTROOMS, COORDINATE TILE WAINSCOT WITH INTERIOR ELEVATIONS.

1 OVERALL WALL FINISH PLAN
NTS

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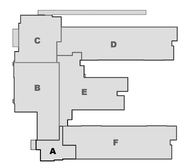

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OVERALL WALL FINISH PLAN

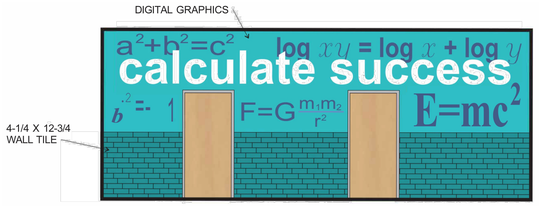
CS-701

TILE LEGEND

WALL TILE COLLECTION
6 X 6 DALTILE - COLOR WHEEL - WALL CLASSIC 4 X 4 DALTILE - COLOR WHEEL - WALL CLASSIC 4 X 12 DALTILE - COLOR WHEEL - LINEAR

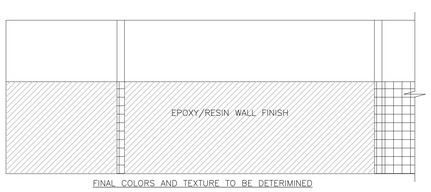
6 X 6 DALTILE - COLOR WHEEL - WALL CLASSIC	4 X 4 DALTILE - COLOR WHEEL - WALL CLASSIC	4 X 12 DALTILE - COLOR WHEEL - LINEAR
ARCTIC WHITE	ARCTIC WHITE	OCEAN BLUE
DESERT GRAY	ELECTRIC BLUE	SFA RIFFF7F
WATERFALL	DESERT GRAY	COBALT
ELECTRIC BLUE	CHALKBOARD	
WOOD VIOLET		
PLUM CRAZY		

NOTE:
1) TILE PATTERN AT KITCHEN AND DRY STORAGE SHOULD BE SIMILAR TO DETAIL 3/CS703, TILE TO BE EXTENDED TO 7'-2" A.F.F.



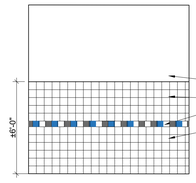
FINAL GRAPHIC AND TILE LAYOUT TO BE DETERMINED

18 CORRIDOR ACCENT ELEVATION
SCALE: 1/4" = 1'-0"



FINAL COLORS AND TEXTURE TO BE DETERIMINED

19 TYPICAL GROUP RESTROOM WALL EPOXY / RESIN ELEVATION
SCALE: 1/4" = 1'-0"



20 TYPICAL SINGLED RESTROOM TILE WAINSCOT
SCALE: 1/4" = 1'-0"

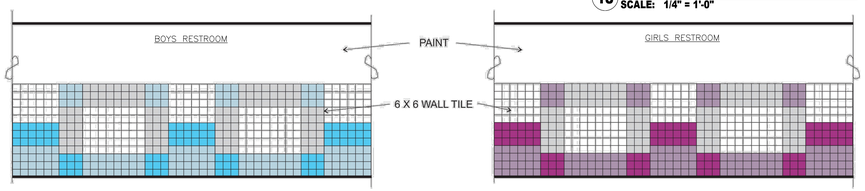
GENERAL NOTES :

1. COORDINATE WALL COLORS WITH SHEET CS-701
2. VECTOR FILES WILL BE PROVIDE TO THE CONTRACTOR FOR ALL WALL GRAPHICS
3. WALL GRAPHICS IN GYMNASIUM B110 AND MAKER SPACE B100 ARE PAINTED, ALL OTHER GRAPHICS ARE DIGITAL PRINTED, CONTRACTOR TO PROVIDE A PROTECTIVE ACRYLIC COAT/FILM AT ALL GRAPHICS.
4. IMPACT RESISTANT WALL COVERING BY "INPRO" OR "KOROWALL" AT WALL PROTECTION AT CAFETERIA AND SECURE LOBBY

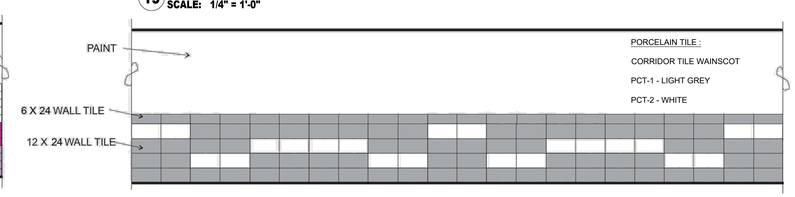
ACOUSTICAL WALL PANEL NOTES:

COLORS ARE BASED ON GULFORED OF MAIN FR701 2100 SERIES:
- COBALT 420
- BLACK 408
- WHITE 224

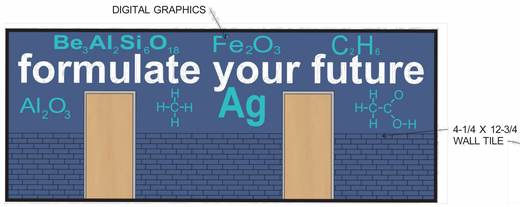
OTHER MANUFACTURER'S ARE ACCEPTABLE IN THEY CAN PROVIDE MATCHING COLORS.



15 TYPICAL GROUP RESTROOM WALL TILE ELEVATION
SCALE: 1/4" = 1'-0"

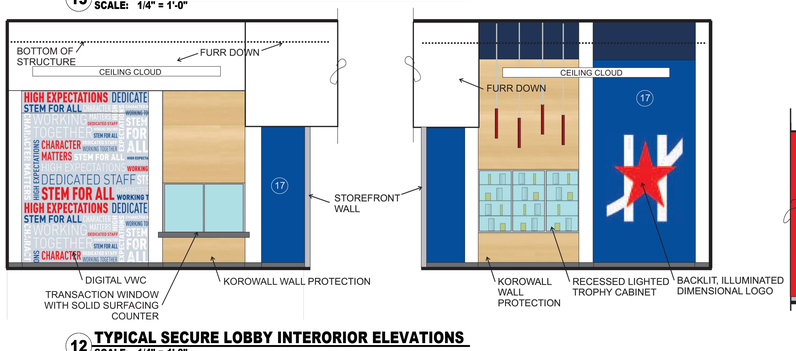


16 TYPICAL CORRIDOR WALL TILE WAINSCOT ELEVATION
SCALE: 1/4" = 1'-0"

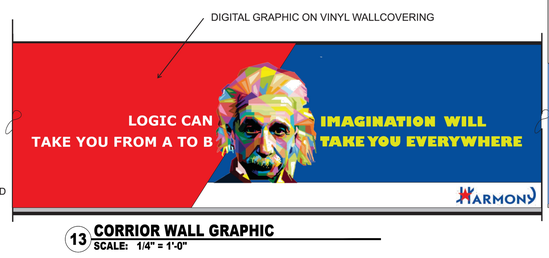


FINAL GRAPHIC AND TILE LAYOUT TO BE DETERMINED

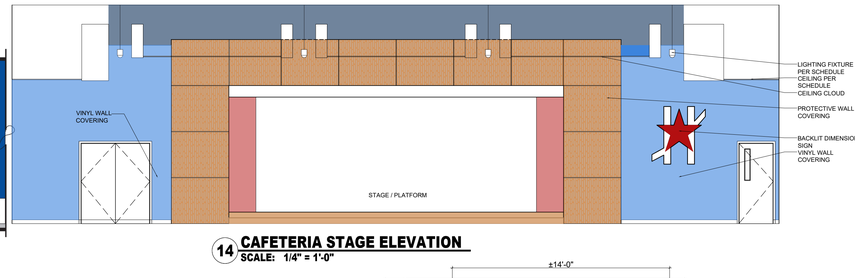
17 CORRIDOR ACCENT ELEVATION
SCALE: 1/4" = 1'-0"



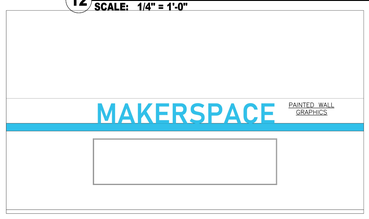
12 TYPICAL SECURE LOBBY INTERORIOR ELEVATIONS
SCALE: 1/4" = 1'-0"

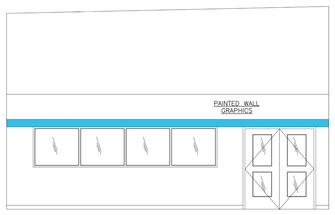


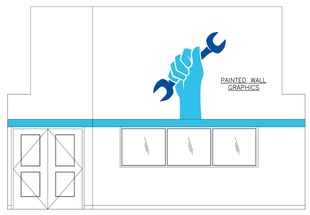
13 CORRIOR WALL GRAPHIC
SCALE: 1/4" = 1'-0"

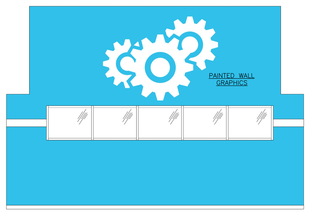


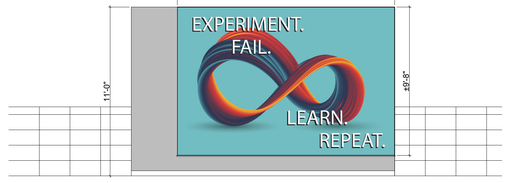
14 CAFETERIA STAGE ELEVATION
SCALE: 1/4" = 1'-0"











11 STUDENT SEAT GRAPHIC ELEVATION
SCALE: 1/4" = 1'-0"

7 MAKER SPACE - SOUTH WALL GRAPHIC
SCALE: 1/4" = 1'-0"

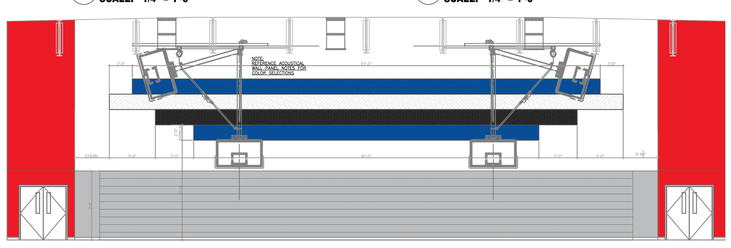
8 MAKER SPACE - NORTH WALL GRAPHIC
SCALE: 1/4" = 1'-0"

9 MAKER SPACE - EAST WALL GRAPHIC
SCALE: 1/4" = 1'-0"

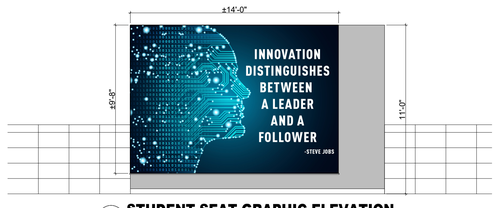
10 MAKER SPACE - WEST WALL GRAPHIC
SCALE: 1/4" = 1'-0"



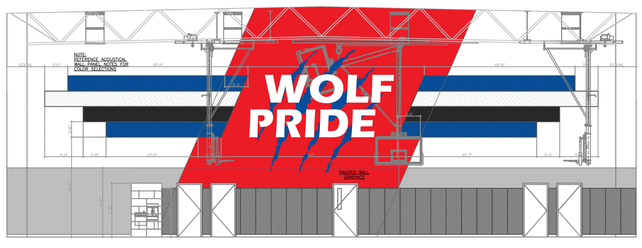
4 GYMNASIUM - NORTH WALL GRAPHIC
SCALE: 1/8" = 1'-0"



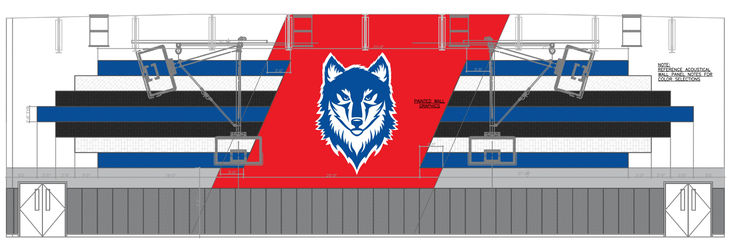
5 GYMNASIUM - EAST WALL GRAPHIC
SCALE: 1/8" = 1'-0"



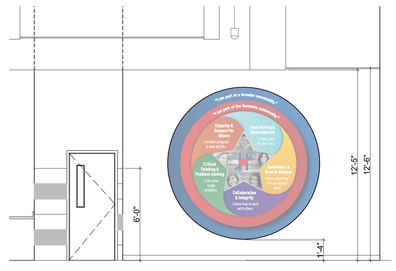
6 STUDENT SEAT GRAPHIC ELEVATION
SCALE: 1/4" = 1'-0"



1 GYMNASIUM - SOUTH WALL GRAPHIC
SCALE: 1/8" = 1'-0"



2 GYMNASIUM - WEST WALL GRAPHIC
SCALE: 1/8" = 1'-0"



3 CAFETERIA - WALL GRAPHIC
SCALE: 1/4" = 1'-0"

THESE ELEVATIONS ARE FOR COLOR AND FINISH MATERIALS ONLY, REFER TO ARCHITECTURAL ELEVATIONS

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ADLA, Inc.
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Corpus Christi, TX 78413
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STRUCTURAL AND WINDSTORM:
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1220 W Harrison Ave.
Harlingen, TX 78550
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MECHANICAL, ELECTRICAL, AND PLUMBING:
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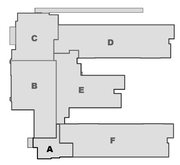
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Houck, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

REGISTERED ARCHITECT
RAYMOND C. GIGNAC
STATE OF TEXAS
EXPIRATION DATE 11/30/2026
SIGNED ON 6/29/2026

HARMONY PUBLIC SCHOOLS
HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:
GRAPHIC AND INTERIOR MATERIALS

CS-702

EXISTING EQUIPMENT NOTES (IF EXISTING EQUIPMENT IS PROVIDED IN THIS PROJECT):

1. EXISTING EQUIPMENT NOT SCHEDULED FOR RE-USE TO BE RELOCATED BY THE K.E.C. COORDINATE WITH OWNER FOR NEW LOCATION.
2. ALL UTILITIES NOT SCHEDULED FOR RE-USE TO BE CAPPED & COVERED BY REQUIRED DISCIPLINE.
3. K.E.C. TO VERIFY ALL EXISTING UTILITY LOCATIONS & COORDINATE WITH ALL EQUIPMENT AS REQUIRED.

8 EXISTING EQUIPMENT NOTES1
NOT TO SCALE

ARCHITECT TO VERIFY/COORDINATE THE AESTHETIC OPTIONS BELOW (FOOD SERVICE COLOR, MATERIAL, OR SIGNAGE SELECTIONS) IF THESE ITEMS ARE PROVIDED IN THIS PROJECT:

1. COUNTERTOPS: STONE (STAINLESS STEEL IS PROVIDED UNLESS OTHERWISE SPECIFIED).
2. TRAY SLIDES: CORIAN OR STONE (STAINLESS STEEL IS PROVIDED UNLESS OTHERWISE SPECIFIED).
3. COUNTER FRONTS: CERAMIC TILE, 3 FORM, OR PLASTIC LAMINATE.
4. SNEEZE GUARDS: STONE INSETS.
5. GENERAL COLOR, MATERIAL AND GRAPHIC SELECTIONS:
   - A. DISPLAY AIR SCREEN MERCHANDISERS - COLOR SELECTION: POWDER COAT OR PLASTIC LAMINATE (S/S IS PROVIDED UNLESS OTHERWISE SPECIFIED).
   - B. BAKERY DISPLAY CASES - COLOR SELECTION: POWDER COAT OR PLASTIC LAMINATE (S/S IS PROVIDED UNLESS OTHERWISE SPECIFIED).
   - C. PASS THRU OR REACH IN HOLDING CABINETS - COLOR SELECTION: POWDER COAT (MFG.: TRUE) OR PLASTIC LAMINATE (MFG.: TRAULSEN) (S/S IS PROVIDED UNLESS OTHERWISE SPECIFIED).
   - D. HANGING HEAT LAMPS - TRACK AND FIXTURE COLOR SELECTION.
   - E. HEATED MERCHANDISERS.
   - F. PORTABLE GUIDE RAILS - STANCHION AND BELT COLOR SELECTION.
   - G. POPCORN MACHINE - SIGNAGE SELECTION.
   - H. BOTTLE COOLER - SIGNAGE SELECTION.
   - I. GRAPHICS PACKAGE INFORMATION.
   - J. HOT FOOD WELL COVERS.
6. ARCHITECT TO VERIFY/COORDINATE THE FINISHES BELOW:
   - A. WALLS: CERAMIC TILE, FLAT FRP, OR MOLDED FRP (SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE AS APPROVED BY LOCAL JURISDICTION).
   - B. CEILINGS: REMOVABLE VINYL FACE TILE (SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE AS APPROVED BY LOCAL JURISDICTION).
   - C. FLOORS: TILE, EPOXY, OR RUBBERIZED FLOORING SYSTEM (SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT AS APPROVED BY LOCAL JURISDICTION) (COORDINATE FLOOR TILE TRANSITION AT SERVING LINES).
   - D. FLOORS: WALK-IN ASSEMBLY - EXTEND KITCHEN FLOOR FLUSH INTO WALK-IN ASSEMBLY WITH COVED BASE.
   - E. FURR DOWNS ABOVE SERVING COUNTERS.

5 ARCHITECTURAL COORDINATION NOTES1
NOT TO SCALE

DIVISION 23 (MECHANICAL) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL MECHANICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO REMOTE FOOD SERVICE EQUIPMENT REFRIGERATION SYSTEMS.
6. ROUGH-IN AND FINAL CONNECTION OF MECHANICAL SYSTEMS TO FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR).
7. TESTING AND BALANCING FOR ROOMS AND EXHAUST HOODS TO BE PERFORMED BY MECHANICAL CONTRACTOR. BALANCE REPORT FOR FOOD SERVICE EXHAUST HOODS TO BE PROVIDED TO FOODSERVICE DESIGN PROFESSIONALS (FDP) IMMEDIATELY UPON COMPLETION (SEND TO HOUSTON.SUBMITTAL@FDP.ORG FOR HOUSTON OFFICE AND DALLAS.SUBMITTAL@FDP.ORG FOR DALLAS OFFICE) AND MUST BE SUBMITTED WITH O&M MANUALS.
8. EXHAUST HOODS, CONDENSATE HOODS, FIRE SUPPRESSION SYSTEMS, CONNECTIONS AND CONTROLS (PROVIDE AND INSTALL – *UNLESS OTHERWISE SPECIFIED*). PROVIDE TEMPERED AIR AT ALL SUPPLY DUCTS.
   - A. IF EXHAUST/CONDENSATE HOODS AND FIRE SUPPRESSION SYSTEMS ARE SPECIFIED UNDER SECTION 11 40 00, DIVISION 23 IS RESPONSIBLE FOR ALL EXHAUST AND CONDENSATE HOOD CONNECTIONS (PROVIDE AND INSTALL).
9. VFD SYSTEM AND CONTROLLERS, WHEN REQUIRED BY CODE (PROVIDE AND INSTALL).
10. PROVIDE AND INSTALL ALL VENTILATION (DIRECT OR INDIRECT), AIR CONDITIONING AND HEATING SYSTEMS (UNLESS OTHERWISE SPECIFIED).
11. COORDINATE SUPPLY AND RETURN DUCTS ABOVE SERVING COUNTERS OR OPEN-AIR REFRIGERATED MERCHANDISERS. NO COLD AIR TO BLOW DIRECTLY ON HOT FOOD COUNTERS.
12. COORDINATE SUPPLY AND RETURN DUCTS AWAY FROM EQUIPMENT WITH TOP MOUNTED REFRIGERATION. NO COLD AIR TO BLOW DIRECTLY ON COMPRESSORS.
13. MECHANICAL CONTRACTOR TO LOCATE TEMPERATURE MONITORS WITHIN RETURN DUCTS.
14. CIRCULATING AIR ABOVE WALK-IN ASSEMBLIES (PROVIDE AND INSTALL).
15. CIRCULATING AIR ABOVE AND IN AIR GAPS AT WAREHOUSE COLD STORAGE ASSEMBLIES (PROVIDE AND INSTALL).
16. WATER CHILLERS AS REQUIRED (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) (PROVIDE, SIZE AND LOCATE).
17. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) (PROVIDE, SIZE AND LOCATE).

NOTE: MECHANICAL CONNECTIONS INDICATED ARE THOSE REQUIRED FORTHE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 23. FOR ADDITIONAL REQUIREMENTS, REFER TO THE MECHANICAL ENGINEER'S DRAWINGS AND FOOD SERVICE GENERAL SPECS.

3 MECHANICAL COORDINATION NOTES1
NOT TO SCALE

REFER TO FOODSERVICE DESIGN PROFESSIONALS SPECIFICATIONS AND SUBSEQUENT SHEETS FOR ADDITIONAL COORDINATION INFORMATION

CRITICAL NOTES:

1. CONTRACTOR MUST COORDINATE AND VERIFY ALL DIMENSIONS WITH FOOD SERVICE EQUIPMENT SHOP DRAWINGS AND MANUFACTURER'S DATA. DIMENSIONS SHOWN ARE FOR DESIGN AND BIDDING PURPOSES ONLY.
2. WALK-IN ASSEMBLY DOORS MUST BE LEFT OPEN WHILE INTERIOR CONCRETE FLOOR CURES.
3. INSTALL PROTECTIVE COVER ON WALK-IN ASSEMBLY WALL PANELS BEFORE INSTALLING CONCRETE FLOORS AND CURBS.
4. REFER TO GENERAL SPECS - DIVISION 27 TO PROVIDE CONDUIT, DATA, AND INTERCONNECT THE PANIC ALARM INSIDE FREEZER AND COOLER TO THE BUILDING AUTOMATION SYSTEM FOR NOTIFICATION TO DISTRICT PERSONNEL IN THE EVENT OF STAFF ENTRAPMENT.
5. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE THE FINAL CONNECTION WITH FOOD SERVICE EQUIPMENT - CRITICAL (DIV. 22).

7 CRITICAL NOTES1
NOT TO SCALE

DIVISION 26 (ELECTRICAL) IS RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL ELECTRICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. ROUGH-IN AND FINAL CONNECTION OF ELECTRICAL SYSTEMS TO FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES PROVIDED LOOSE WITH FOOD SERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 26.
6. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS REFRIGERANT FOR PIPING TO REMOTE FOOD SERVICE EQUIPMENT REFRIGERATION SYSTEMS.
7. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR INTERCONNECT INTERCONNECT CABLES BETWEEN LAN AND POS TERMINALS, CHANGE-MAKERS, PRE-CHECK UNITS, PRINTERS, CPUS, ETC. DIVISION 26 TO VERIFY WHERE THE CONDUIT IS TO RUN FOR POS SYSTEM (I.E., MANAGER'S OFFICE OR IDF ROOM).
8. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR FIRE SUPPRESSION SYSTEMS. INTERCONNECT FIRE PROTECTION SYSTEM TO PANEL BOX SHUNT TRIPS AND BUILDING ALARM.
9. WALK-IN LIGHT FIXTURE INSTALLATION (PROVIDED LOOSE BY SECTION 11 40 00) (IF WALK-IN IS PROVIDED IN THIS PROJECT).
10. TABLE LIMIT SWITCH (PROVIDED LOOSE BY SECTION 11 40 00) (IF DISHMACHINE IS PROVIDED IN THIS PROJECT) - INSTALL AND INTERCONNECT TO DISHMACHINE .
11. ELECTRICAL MATERIALS AND DEVICES (SHUNT-TRIP BREAKERS, SURGE PROTECTORS, LIGHTING CONTROL DEVICES, CONDUIT, WIRE, ETC.).
12. SWITCHES AND STAINLESS STEEL DISCONNECTS AS REQUIRED (PROVIDE, LOCATE, AND INSTALL – TO BE IN AN ACCESSIBLE LOCATION).
13. CHARGING STATIONS FOR FORKLIFTS, PALLET STACKERS, AND PALLET JACKS (SIZE, PROVIDE, LOCATE, AND INSTALL) (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
14. INTERCONNECTION BETWEEN CONDENSATE FAN AND DISHMACHINE CONTROL PANEL (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
15. INTERCONNECTION BETWEEN EXHAUST HOOD FANS AND SWITCH (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
16. INTERCONNECTION BETWEEN EXHAUST HOOD LIGHTS AND SWITCH (IF EQUIPMENT IS PROVIDED IN THIS PROJECT).
17. DOOR HEATERS, LIGHTS, COILS, AND PRESSURE RELIEF PORTS PRE-WIRED TO JUNCTION BOX AT TOP OF WALK-IN ASSEMBLIES (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) PROVIDED BY SECTION 11 40 00. FINAL CONNECTION BY DIV. 26.
18. IF ANY ELECTRICAL ACCESSORIES, FITTINGS, AND CORD/PLUGS ARE PROVIDED LOOSE WITH EQUIPMENT BY 11 40 00, DIV.26 IS TO ATTACH TO EQUIPMENT AND PROVIDE FINAL CONNECTION.
19. PROVIDE WATERPROOF RECEPTACLES IN WET AREAS.
20. ALL ELECTRICAL LIGHTING, POWER, AND DISTRIBUTION SYSTEMS.
21. ALL ELECTRICAL CONNECTIONS BENEATH EXHAUST HOODS (IF EQUIPMENT IS PROVIDED IN THIS PROJECT) TO EXTEND TO SHUNT TRIP BREAKERS WITH ELECTRICAL PANEL BOX FOR SHUTDOWN DURING FIRE MODE.
22. RECEPTACLES ARE TO BE PRE-WIRED TO THE JUNCTION BOX OR LOAD CENTER FOR FINAL CONNECTION BY DIVISION 26.
23. DO NOT INTERCONNECT MORE THAN THREE (3) CONVENIENCE OUTLETS ON ONE (1) BREAKER.
24. OTHER THAN CONVENIENCE OUTLETS, ALL ELECTRICAL CONNECTIONS SHOWN ON FOOD SERVICE PLANS ARE DEDICATED BREAKERS.
25. DOORBELL AT RECEIVING DOOR (PROVIDE AND INSTALL – TO BE AUDIBLE THROUGHOUT KITCHEN, OFFICE, AND DRY STORAGE ROOM).
26. ADEQUATE LIGHTING AT RECEIVING DOOR.
27. (IF WALK-IN IS PROVIDED IN THIS PROJECT) WALK-IN MANUFACTURER IS TO PROVIDE THREE (3) EDWARDS 860 SERIES (OR EQUAL) RED LENS, SURFACE-MOUNTED XENON EMERGENCY STROBE BEACONS. DIV 26 WILL INSTALL ONE (1) LOCATED IN THE KITCHEN IN ARCHITECTURAL CEILING ABOVE WALK-IN COOLER DOOR, ONE (1) LOCATED IN THE KITCHEN IN ARCHITECTURAL CEILING ABOVE WALK-IN FREEZER DOOR, AND THE THIRD UNIT LOCATED IN THE CAFETORIUM (DIV 26 TO COORDINATE LOCATION WITH OWNERS AND ARCHITECT). DIVISION 26 IS TO PROVIDE ALL CONDUIT AND WIRING REQUIRED AND INTERCONNECT THE ILLUMINATED PUSH BUTTON PANIC ALARM IN THE WALK-IN COOLER AND FREEZER TO ALL STROBE BEACONS (CRITICAL). COORDINATE WITH DIVISION 27. REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL DETAILS.
28. DEDICATED CIRCUIT FOR HEATED DRAIN LINE CONNECTION IN WALK-IN FREEZER AT EACH COIL (IF WALK-IN IS PROVIDED IN THIS PROJECT).
29. GFCI BREAKER FOR ALL RECEPTACLES UNDER EXHAUST HOODS (IF HOODS ARE PROVIDED IN THE PROJECT). AND HOLDING CABINETS (IF HOLDING CABINETS ARE PROVIDED IN THIS PROJECT), TO BE LOCATED WITHIN KITCHEN'S ELECTRICAL BREAKER PANEL AND NOT AT THE RECEPTACLES.
30. REMOTE GFCI RESET SWITCHES TO BE ACCESSIBLE TO USER.
31. ALL ELECTRICAL BELOW EXHAUST HOOD (IF HOODS ARE PROVIDED IN THE PROJECT) ARE TO HAVE SHUNT TRIP BREAKERS.
32. INTERCONNECT TEMP SENSOR TO EXHAUST / SUPPLY FANS (IF HOODS ARE PROVIDED IN THE PROJECT).

NOTE: ELECTRICAL CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 26. FOR ADDITIONAL REQUIREMENTS, REFER TO THE ELECTRICAL ENGINEER'S DRAWINGS AND FOOD SERVICE GENERAL SPECS.

6 ELECTRICAL COORDINATION NOTES1
NOT TO SCALE

DIVISION 22 (PLUMBING) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL PLUMBING REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. EMPTY PVC CONDUIT WITH WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO BEVERAGE LINES, CO2 LINES, AND REMOTE FOOD SERVICE EQUIPMENT REFRIGERATION SYSTEMS.
6. ROUGH-IN AND FINAL PLUMBING CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES PROVIDED LOOSE WITH FOOD SERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 22. THIS INCLUDES BUT IS NOT LIMITED TO INSTALLATION OF ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), HOSES, GAS DISCONNECTS, AND DRAINS FROM EQUIPMENT POINT OF CONNECTION TO BUILDING PLUMBING SYSTEMS. ALL DRAIN LINES ARE PROVIDED AND INSTALLED BY DIV. 22.
7. KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), DRAIN FITTINGS, MIXING VALVES, CONTROL VALVES, WATER PRESSURE REGULATORS, VACUUM BREAKERS, AND ALL ACCESSORIES FOR EQUIPMENT SPECIFIED UNDER 11 40 00. DIVISION 22 IS RESPONSIBLE FOR INSTALLATION.
8. INDIRECT DRAIN LINE RUNS FROM EQUIPMENT TO NEAREST DRAIN OR FLOOR SINK. LINES TO BE TYPE 'K' COPPER.
9. IF ANY PLUMBING ACCESSORIES OR FITTINGS ARE PROVIDED LOOSE WITH EQUIPMENT BY 11 40 00, DIV. 22 IS TO ATTACH TO EQUIPMENT AND PROVIDE FINAL CONNECTION.
10. GAS SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
11. WATER SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
12. COMPRESSED AIR SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM (IF REQUIRED FOR THIS PROJECT).
13. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE THE FINAL CONNECTION WITH FOOD SERVICE EQUIPMENT - CRITICAL.
14. FLOOR SINKS (PROVIDE AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.
15. FLOOR DRAINS (PROVIDE AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.
16. TRENCH DRAINS (PROVIDE AND INSTALL). TRENCH LINERS PROVIDED BY 11 40 00. FLANGE AND LINERS TO BE FLUSH WITH FINISHED FLOOR.
17. GREASE TRAPS AS REQUIRED. VERIFY WITH LOCAL CODES TO BYPASS OR PIPE THRU GREASE TRAP AND/OR INTERCEPTOR.
18. P-TRAPS AS REQUIRED (INCLUDING ALL DISPOSERS).
19. INTERCONNECT WATER THRU WATER FILTER (FILTER PROVIDED BY 11 40 00 UNLESS OTHERWISE SPECIFIED) TO EQUIPMENT.
20. GAS QUICK DISCONNECT INSTALLATION (QUICK DISCONNECT PROVIDED BY 11 40 00).
21. SAFETY RESTRAINT CABLE INSTALLATION (SAFETY RESTRAINT CABLE PROVIDED BY 11 40 00).
22. SPECIFIED COUPLINGS AND PIPING TO ALL EQUIPMENT FURNISHED BY 11 40 00.
23. AIR COMPRESSORS (IF REQUIRED FOR THIS PROJECT) (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
24. WATER SOFTENERS (IF REQUIRED FOR THIS PROJECT) (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
25. PRESSURE BOILERS (IF REQUIRED FOR THIS PROJECT) (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
26. HAND SINKS (PROVIDE (UNLESS OTHERWISE SPECIFIED) AND INSTALL). PROVIDE HOT WATER TEMPERING VALVE IF REQUIRED. WATER TEMPERATURE TO BE AT LEAST 100 DEGREES AND FLOW FOR AT LEAST 20 SECONDS.
27. ICE BIN DRAIN INSULATION (IF ICE MACHINE IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL).
28. UNIONS AT DISPOSER SOLENOID VALVES (IF DISPOSER IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL).
29. BACK FLOW PREVENTION AS REQUIRED (PROVIDE AND INSTALL - INCLUDING ALL DISPOSERS). BACK- SIPHONAGE SHALL BE INSTALLED AT ALL FIXTURES AND EQUIPMENT WHERE BACKFLOW AND/OR BACK-SIPHONAGE MAY OCCUR AND WHERE A MINIMUM AIR GAP CANNOT BE PROVIDED BETWEEN THE WATER TO THE FIXTURE OR EQUIPMENT AT ITS FLOOD/LEVEL RIM. VACUUM BREAKERS, WHEN FURNISHED WITH EQUIPMENT, SHALL OVERRIDE THE ABOVE. IF ACCEPTABLE WITH APPLICABLE CODES. DIVISION 22 RESPONSIBLE FOR VERIFYING REQUIREMENT WITH LOCAL CODES.
30. JANITOR SINK WITH FAUCET (PROVIDE AND INSTALL).
31. FREEZE PROOF HYDRANT AT EXTERIOR OF BUILDING BY RECEIVING DOOR (PROVIDE AND INSTALL).
32. REVERSE OSMOSIS SYSTEMS (SIZE, PROVIDE (UNLESS OTHERWISE SPECIFIED), LOCATE AND INSTALL).
33. ALL PIPING WITHIN COUNTER BODY OR UNDER FABRICATED COUNTERS TO BE RUN TO A CONNECTION POINT BELOW COUNTER BODY BY SECTION 11 40 00. FINAL CONNECTION BY DIVISION 22.
34. EXHAUST HOOD CONDENSATE DRAIN CONNECTIONS (IF EXHAUST HOOD IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL).
35. INTERCONNECTION OF 1/2" CW TO PRE-RINSE AND DISPOSERS CONE/BODY INLETS PIPED THROUGH SOLENOID AND VACUUM BREAKER (IF DISPOSER IS PROVIDED IN THIS PROJECT).
36. FIRE SYSTEM PIPING. EXPOSED PIPING TO BE CHROME PLATED.
37. PIPE 1/2" COLD WATER TO SWIRL INLETS AT DISPOSERS (IF DISPOSER IS PROVIDED IN THIS PROJECT).
38. WATER TREATMENT FOR ICE BUILDERS (NON-CHLORINATED WATER WITH A PH LEVEL OF 10 OR HIGHER) AND ANY DRAINS AND OVERFLOWS. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS BY DIV. 23 (IF ICE BUILDERS AND TUMBLE CHILLERS ARE PROVIDED IN THIS PROJECT).

NOTE: WATER AND DRAIN CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 22. FOR ADDITIONAL REQUIREMENTS, REFER TO THE PLUMBING ENGINEER'S DRAWINGS AND FOOD SERVICE GENERAL SPECS.

4 PLUMBING COORDINATION NOTES1
NOT TO SCALE

GENERAL CONTRACTOR RESPONSIBLE FOR BUT NOT LIMITED TO:

1. ANY WALL PENETRATION REQUIRED FOR FOOD SERVICE EQUIPMENT UTILITIES. ESCUTCHEON PLATES OR S/S SLEEVES TO BE PROVIDED AND INSTALLED AS NEEDED.
2. BULK FREEZER VENTILATION PIPE (IF BULK FREEZER IS PROVIDED IN THIS PROJECT) (PROVIDE AND INSTALL, UNLESS OTHERWISE SPECIFIED).
3. CORE DRILLING FOR GUIDE RAILS (IF GUIDE RAILS ARE PROVIDED IN THIS PROJECT).
4. REFRIGERATION ROOF CURBS / ROOF JACK (IF REFRIGERATION SYSTEM IS PROVIDED IN THIS PROJECT AND LOCATED ON ROOF).
5. INTERIOR BOLLARDS (IF REQUIRED FOR THIS PROJECT) – TO BE EPOXY PAINTED PER LOCAL CODES (PROVIDE AND INSTALL).
6. FURNISH AND INSTALL 3/4" PLYWOOD BLOCKING IN THE WALL FOR MOUNTING EQUIPMENT FURNISHED BY SECTION 11 40 00 AS REQUIRED.
7. WALK-IN DEPRESSIONS (TO BE DEAD LEVEL) AND SAND LEVELING BED (IF WALK-IN IS PROVIDED IN THIS PROJECT AND RECESS IS SHOWN).
8. STRUCTURAL BRACING FOR BULK WALK-IN CEILING PANELS IF REQUIRED.
9. MENU SYSTEM VIDEO MONITORS IN SERVERY (UNLESS OTHERWISE SPECIFIED).
10. STRUCTURAL BRACING FOR MENU SYSTEM VIDEO MONITORS IF REQUIRED.
11. INTERIOR/EXTERIOR REFRIGERATION PENETRATIONS AND SLEEVES AT BUILDING PENETRATIONS.
12. DOORSCOPE VIEWER (PEEPHOLE) WITH WIDE VIEWING ANGLE AT RECEIVING DOOR.
13. CANOPY AT RECEIVING DOOR. COORDINATE HEIGHT WITH THE HEIGHT OF RECEIVING DOOR (8') AND THE MOUNTING HEIGHT OF AIR SCREEN ABOVE THE DOOR.
14. SOAP AND TOWEL DISPENSER PROVIDED BY OWNER. G.C. RESPONSIBLE FOR INSTALLATION.
15. WASHER AND DRYER (PROVIDE AND INSTALL, UNLESS OTHERWISE SPECIFIED).
16. DWARF WALL AT EXPOSED FRONT/ENDS OF CAFETERIA SERVING COUNTERS WITH FINISH AS SELECTED BY ARCHITECT (IF REQUIRED IN THIS PROJECT).

2 GENERAL CONTRACTOR COORDINATION NOTES1
NOT TO SCALE

HEALTH DEPARTMENT REQUIREMENTS (VERIFY WITH LOCAL JURISDICTIONS):

1. FLOORS: VERIFY WITH DIVISION 9. FLOORS TO BE SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT.
2. WALLS: VERIFY WITH ARCHITECTURAL DOCUMENTS. WALLS TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
3. CEILING: LAY-IN TILES. CEILING TILES TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
4. EMPLOYEE TOILET: TO BE LOCATED OFF MAIN CORRIDOR AND ADJACENT TO MAIN KITCHEN. RESTROOM MUST HAVE A VESTIBULE AND NOT OPEN TO KITCHEN / PREP AREAS. TOILETS TO BE WELL VENTILATED.
5. LAVATORIES: WALL HUNG LAVATORIES LOCATED WITHIN ALL FUNCTIONAL WORKING AREAS.
6. UTENSIL CLEANING/SANITIZING: ACCOMPLISHED IN UTENSIL WASH AREA WITH (3) 2'-0" x 2'-2" x 15" MINIMUM DEEP SINKS AND WAREWASH MACHINE.
7. MECHANICAL CLEANING/SANITIZING OF TABLEWARE: ACCOMPLISHED BY WAREWASH MACHINE.
8. STOREROOMS: AMPLE DAILY STORAGE PROVIDED IN ENCLOSED STORE ROOMS. STORE ROOMS TO BE VENTILATED AND MAINTAIN PROPER TEMPERATURE.
9. WATER HEATER: LOCATED IN THE MECHANICAL ROOM ADJACENT TO KITCHEN. TO BE SIZED TO PROVIDE AMPLE WATER TO MAINTAIN PROPER WATER TEMPERATURE THROUGHOUT HOURS OF OPERATION.
10. GREASE TRAP: LOCATED AT EXTERIOR OF BUILDING. REFER TO ENGINEER'S DRAWINGS.
11. FOOD SERVICE EQUIPMENT: ALL FLOOR-MOUNTED EQUIPMENT IS TO BE SEALED TO THE FLOOR TO PROVIDE AN EASILY CLEANABLE SURFACE AND PREVENT SEEPAGE. EQUIPMENT NOT MOUNTED TO THE FLOOR IS TO BE WALL MOUNTED ON WALL CARRIERS, OR ELEVATED ON LEGS TO PROVIDE AT LEAST A SIX-INCH CLEARANCE BETWEEN FLOOR AND EQUIPMENT.
12. MOP SINK: LOCATED IN JANITOR CLOSET OFF MAIN KITCHEN CORRIDOR, AND LOCATED IN CLOSE PROXIMITY TO THE WAREWASH AREA.
13. EXHAUST HOODS: EXHAUST HOODS PROVIDED OVER COOKING EQUIPMENT WITH LIQUID CHEMICAL ANSUL FIRE EXTINGUISHING SYSTEM.
14. LIGHTING AND PROTECTIVE SHIELDING: RECESSED CEILING-MOUNTED FLUORESCENT LIGHT FIXTURES FITTED WITH CLEAR LEXAN DIFFUSERS.
15. GARBAGE AND REFUSE: CENTRAL TRASH COLLECTION PROVIDED FOR BUILDING LOCATED NEAR RECEIVING AREA ON SMOOTH CONCRETE SURFACE.
16. POISONOUS AND TOXIC MATERIAL STORAGE: LOCATED IN RESPECTIVE JANITOR CLOSETS WITH LOCKING HARDWARE.

1 HEALTH DEPARTMENT COORDINATION NOTES1
NOT TO SCALE

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EXP. DATE: 11-30-2024

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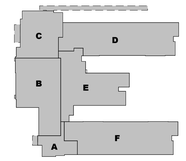

KEYPLAN

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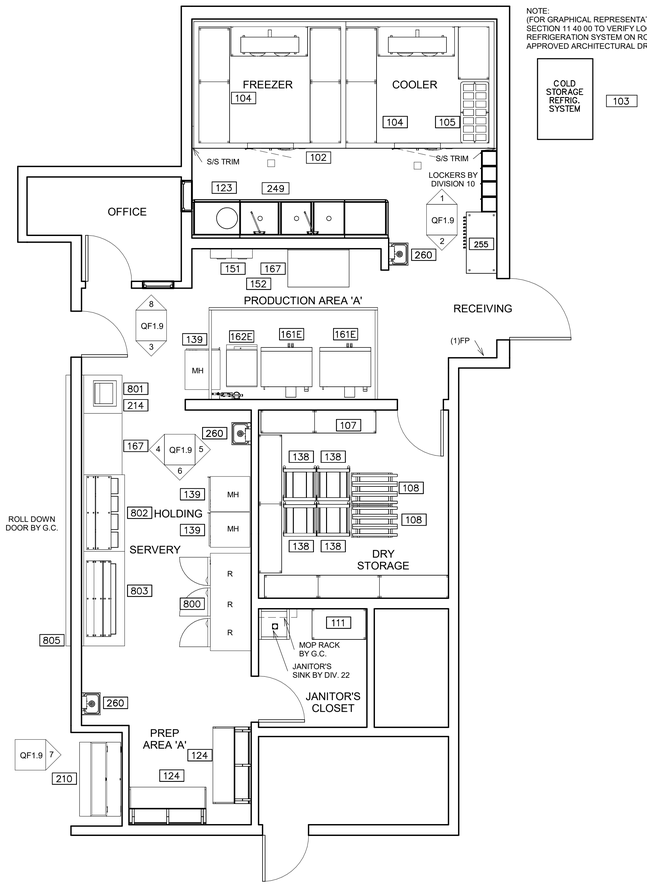
Sheet Title:

FS GENERAL COORDINATION NOTES

QF1

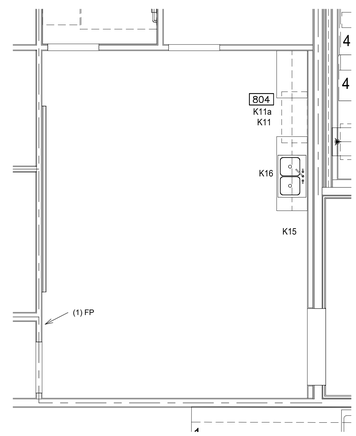
FOOD SERVICE DRAWING INDEX	
FDP SHEET NUMBER	FDP SHEET NAME
QF1	FS GENERAL COORDINATION NOTES
QF1.0	FS EQUIPMENT PLAN
QF1.1	FS FACILITY MODEL
QF1.2	FS EQUIPMENT MODEL
QF1.3	FS SPECIAL CONDITIONS & MECHANICAL PLAN
QF1.4	FS PLUMBING PLAN
QF1.5	FS ELECTRICAL PLAN
QF1.6	FS EXHAUST HOODS
QF1.6.1	FS EXHAUST HOODS
QF1.7	FS CONDENSING UNITS
QF1.8	FS WALK-INS
QF1.9	FS ELEVATIONS
QF1.10	FS SECTIONS & DETAILS
QF1.11	FS DETAILS



NOTE:
(FOR GRAPHICAL REPRESENTATION ONLY)
SECTION 11 40 00 TO VERIFY LOCATION OF REFRIGERATION SYSTEM ON ROOF WITH APPROVED ARCHITECTURAL DRAWINGS.

1 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"

FOOD SERVICE EQUIPMENT SCHEDULE - KITCHEN			
REFER TO SHEET QF1 FOR GENERAL CONTRACTOR & HEALTH DEPARTMENT COORDINATION NOTES			
FDP ITEM	FDP QTY	FDP DESCRIPTION	FDP REMARKS
102	1	COLD STORAGE ASSEMBLY	
103	1	COLD STORAGE REFRIGERATION SYSTEM	
104	2	COLD STORAGE SHELVING	
105	1	DUNNAGE RACK	
107	1	DRY STORAGE SHELVING	
108	2	CAN RACK	
111	1	CHEMICAL SHELF	
123	1	DISPOSER-CONE MOUNT	
124	2	WORKTABLE W. OVERSHELF	
138	4	PAN RACK	
139	3	HEATED TRANSPORT CART	
151	1	FIRE PROTECTION SYSTEM	
152	1	EXHAUST HOOD	
161E	2	CONVECTION OVEN-ELECTRIC DBL	
162E	1	CONVECTION STEAMER-ELECTRIC	
167	2	MOBILE WORKTABLE	
210	1	DROP FRONT MILK COOLER - 16 CASE	
214	1	CASH REGISTER	OWNER FURNISHED
249	1	THREE COMPARTMENT SINK W/DISPOSER	W/PRE-RINSE FAUCET
255	1	MOBILE DRYING RACK	
260	3	HAND SINK	FURNISHED AND INSTALLED BY DIV. 22
800	1	REFRIGERATOR RACH-IN 3DR.	
801	1	CASHIER STATION	MOBILE
802	1	(4)HOT WELLS	MOBILE
803	1	(4)PAN COLD	MOBILE
804	1	EXHAUST HOOD	
805	1	TRAY SLIDE	



2 FOOD SERVICE EQUIPMENT - LIFE SKILLS CENTER PLAN
1/4" = 1'-0"

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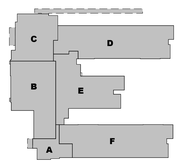

KEYPLAN

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FS EQUIPMENT PLAN

QF1.0

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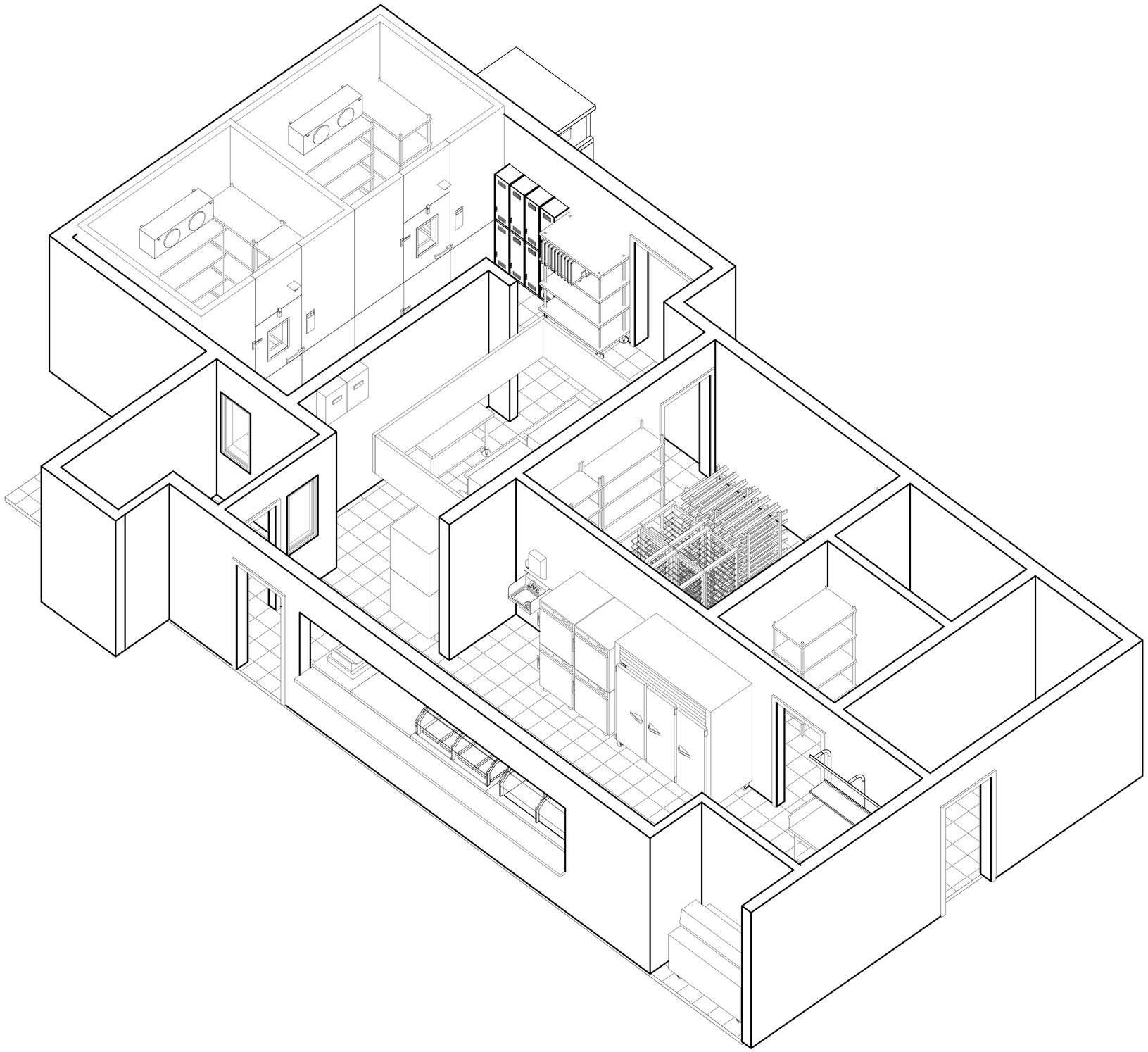

1 FS FACILITY MODEL

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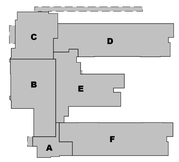

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FS FACILITY MODEL

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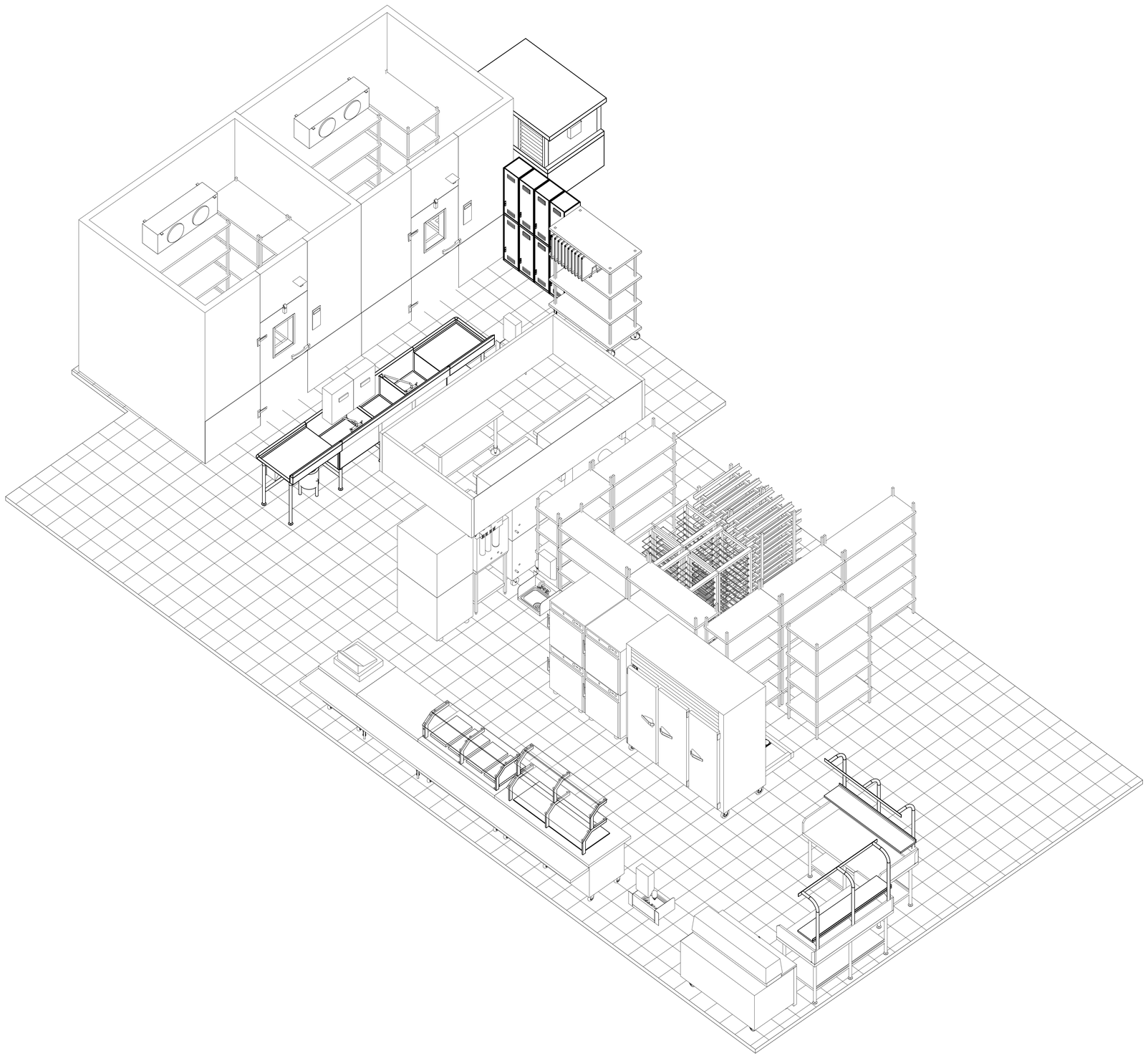

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FOOD SERVICE DESIGN:
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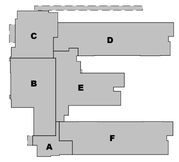
RAYMOND D. GIGNAC #6296
EXP. DATE: 11-30-2024

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING, TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026

Drawn: RD
Checked: RG

Revisions:

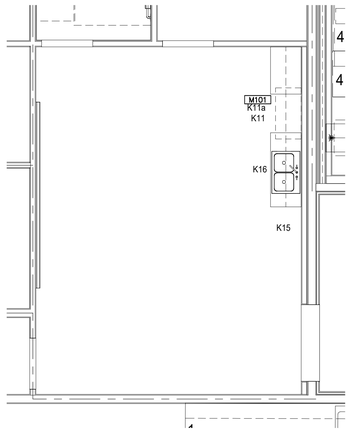
No.	Description	Date

Sheet Title:

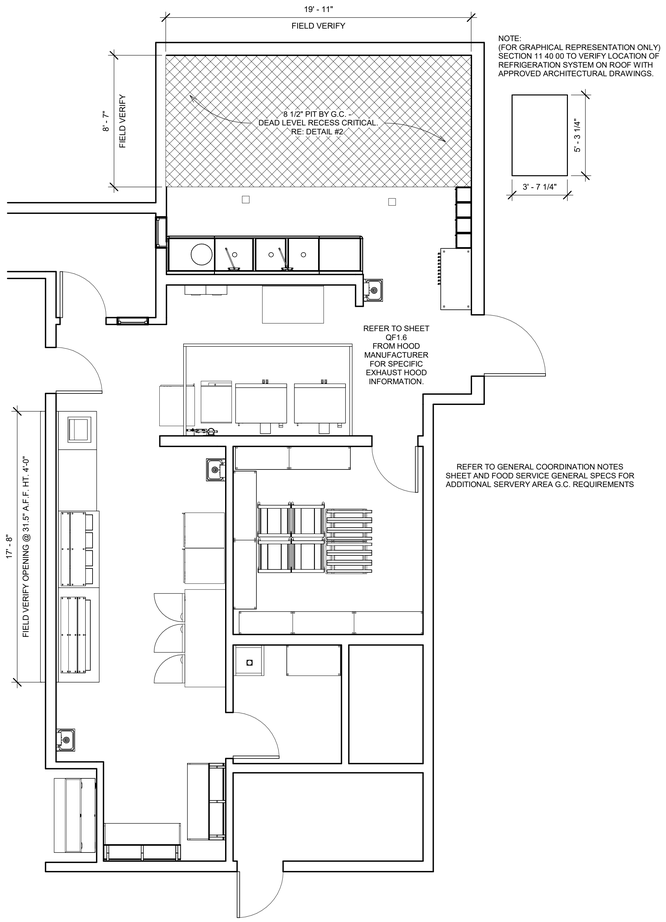
FS EQUIPMENT MODEL

QF1.2

FOOD SERVICE MECHANICAL SCHEDULE						
REFER TO SHEET QF1 FOR MECHANICAL COORDINATION NOTES						
FDP NO.	FDP QTY	FDP TYPE	FDP SIZE	FDP LOC	FDP CFM	FDP S.P.
M101	1	EXHAUST	8" DIAMETER	WALL	500	---

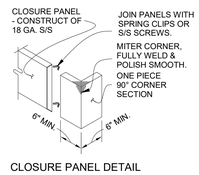


6 FOOD SERVICE EQUIPMENT - LIFE SKILLS CENTER PLAN SPECIAL CONDITIONS PLAN
1/4" = 1'-0"

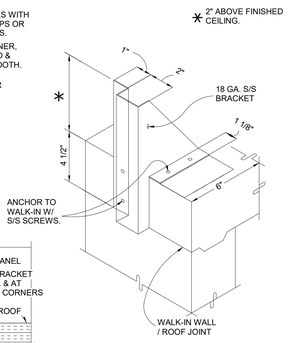


NOTE:
(FOR GRAPHICAL REPRESENTATION ONLY)
SECTION 11 40 00 TO VERIFY LOCATION OF REFRIGERATION SYSTEM ON ROOF WITH APPROVED ARCHITECTURAL DRAWINGS.

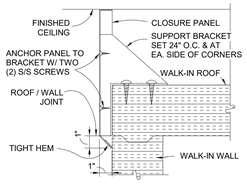
1 FOOD SERVICE SPECIAL CONDITIONS PLAN
1/4" = 1'-0"



CLOSURE PANEL DETAIL

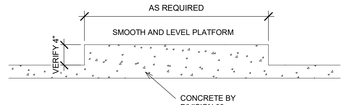


ISOMETRIC - SUPPORT BRACKET



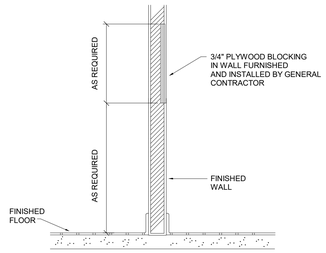
SECTION - CLOSURE PANEL

3 COLD STORAGE ASSEMBLY ENCLOSURE PANEL DETAIL
NOT TO SCALE

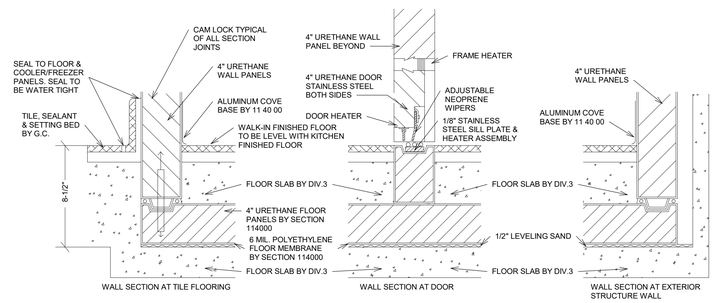


4 COLD STORAGE ASSEMBLY REFRIGERATION SYSTEM
GROUND MOUNT 4" PLATFORM DETAIL
NOT TO SCALE

NOTE:
SECTION 11 40 00 TO COORDINATE
FINAL LOCATION AND SIZE OF WALL
BLOCKING.



5 WALL BLOCKING DETAIL
NOT TO SCALE



NOTE:
FLOOR SLAB COLD STORAGE ASSEMBLIES TO BE DEAD LEVEL
REFER TO SPECIFICATIONS FOR EXTERIOR/INTERIOR FINISH OF WALL PANELS.

2 COLD STORAGE ASSEMBLY 8 1/2" DEPRESSION DETAIL
NOT TO SCALE

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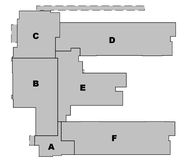

KEYPLAN

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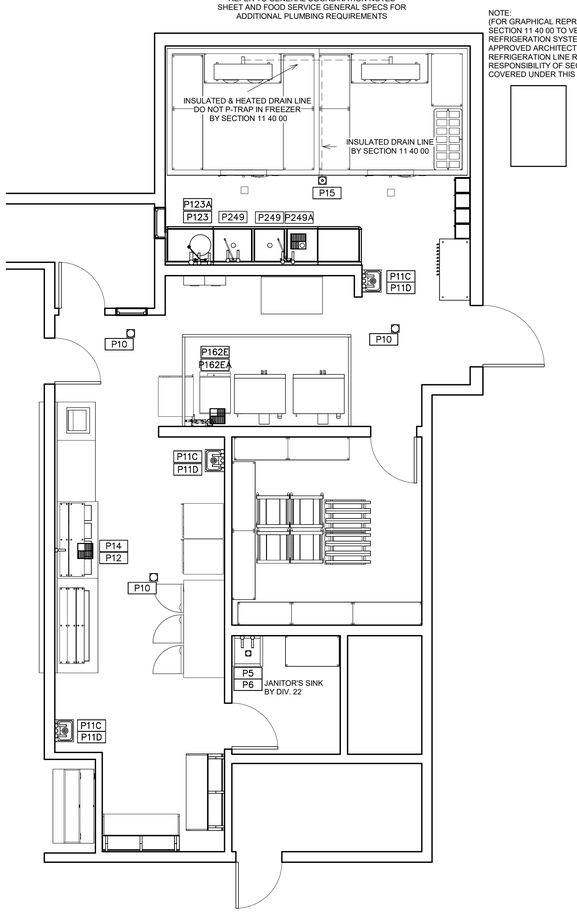
FS SPECIAL CONDITIONS & MECHANICAL PLAN

QF1.3

REFER TO GENERAL COORDINATION NOTES SHEET AND FOOD SERVICE GENERAL SPECS FOR ADDITIONAL PLUMBING REQUIREMENTS

NOTE:
(FOR GRAPHICAL REPRESENTATION ONLY) SECTION 11 40 00 TO VERIFY LOCATION OF REFRIGERATION SYSTEM ON THE ROOF WITH APPROVED ARCHITECTURAL DRAWINGS. REFRIGERATION LINE RUNS ARE TO BE THE RESPONSIBILITY OF SECTION 11 40 00 AND COVERED UNDER THIS CONTRACT.



1 FOOD SERVICE PLUMBING PLAN
1/4" = 1'-0"

FOOD SERVICE PLUMBING SCHEDULE						
REFER TO SHEET QF1 FOR PLUMBING COORDINATION NOTES						
FDP PNO	FDP PSIZE	FDP PCONN	FDP PSERVICE TO	FDP PLOC	FDP PAFF	FDP REMARKS
P5	3/4"	H & C WATER	JANITOR SINK	WALL	48"	BTC
P6	4"	FLOOR DRAIN	JANITOR SINK	FLOOR	VERIFY	BTC
P10	VERIFY	FLOOR DRAIN	GENERAL AREA DRAIN	FLOOR	VERIFY	LOCATE PER ENGINEER'S DRAWING
P11C	1/2"	H & C WATER	FAUCET	WALL	18"	FURNISHED & INSTALLED BY DIV. 22
P11D	1 1/2"	DIRECT DRAIN	HAND SINK	WALL	15"	FURNISHED & INSTALLED BY DIV. 22
P12	12"SQ.	FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4 GRATE
P14	1/2"	COLD WATER	FILL FAUCET	WALL	18"	BTC - S/S FLEX HOSE TO FILL FAUCET
P15	4"	FLOOR DRAIN	FUNNEL FLOOR DRAIN	FLOOR	0"	---
P123	3/4"	H & C WATER	FAUCET / DISPOSER	WALL	13"	BTC
P123A	2"	DIRECT DRAIN	DISPOSER	WALL	10"	BTC
P162E	12" SQ.	FLOOR SINK	CONVECTION STEAMER	FLOOR	0"	3/4 GRATE
P162EA	3/4"	COLD WATER	CONVECTION STEAMER	WALL	18"	BTC; INTERCONNECT THRU WATER FILTER
P249	3/4"	H & C WATER	FAUCET	WALL	13"	BTC
P249A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	THREE QUARTER GRATE

SECTION 11 40 00 TO PROVIDE LOOSE WITH FOOD SERVICE EQUIPMENT. INSTALLATION BY DIV. 22 & 26.

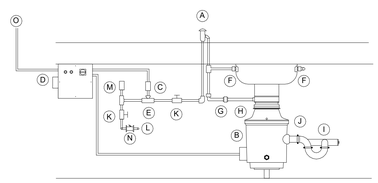
- (A) VACUUM BREAKER
- (B) DISPOSER
- (C) TIME DELAY
- (D) CONTROL PANEL
- (E) SOLENOID VALVE

DIVISION 22 TO PROVIDE AND INSTALL

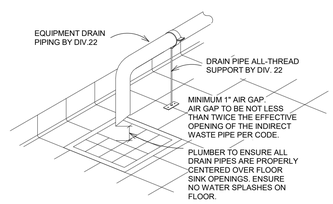
- (F) 1/2" CW INLET
- (G) FLOW CONTROL
- (H) 1/2" CW
- (I) 2" DRAIN LINE WITH P-TRAP & Y ADAPTOR
- (J) 1-1/2" TAILPIECE
- (K) GATE VALVE
- (L) 1/2" CW SUPPLY
- (M) SHOCK STOP
- (N) RPZ BACK FLOW PREVENTOR

DIVISION 26 TO PROVIDE AND INSTALL

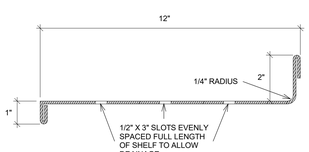
- (O) POWER SUPPLY



3 DISPOSER WITH VACUUM BREAKER DETAIL
NOT TO SCALE



5 DRAIN PIPING FASTENER DETAIL
NOT TO SCALE



8 WAREWASH - PERFORATED OVER SHELF DETAIL
NOT TO SCALE

○	HW	HOT WATER	⊡	FFD	FUNNEL FLOOR DRAIN
○	CW	COLD WATER	◣	EVC	EXHAUST VENT CONNECTION
○	HTW	180 F HOT WATER	⋈	SVC	SUPPLY VENT CONNECTION
◍		CHILLED WATER	⬑	FR	DIRECT-CONNECTED FLUE RISER
●	W	DIRECT WASTE	⊕	PS	PIPE SLEEVE
○	IW	INDIRECT WASTE	⊙		COMPRESSED AIR
⊙		GAS SUPPLY	♦		CO2
◑		STEAM SUPPLY		AFF	ABOVE FINISHED FLOOR
⊗	CR	CONDENSATE RETURN		BTC	BRANCH TO CONN. ON EQUIP
●	DR	DRAIN		DFA	DROP FROM ABOVE
▢	FD	FLOOR DRAIN		CLG	CEILING
▟	FST	FLOOR SINK 3/4 GRATE			
▯	FSH	FLOOR SINK 3/4 GRATE			

2 PLUMBING SYMBOLS
NOT TO SCALE

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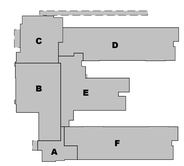

KEYPLAN

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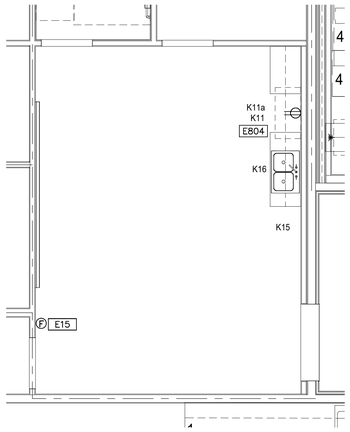
FS PLUMBING PLAN

QF1.4

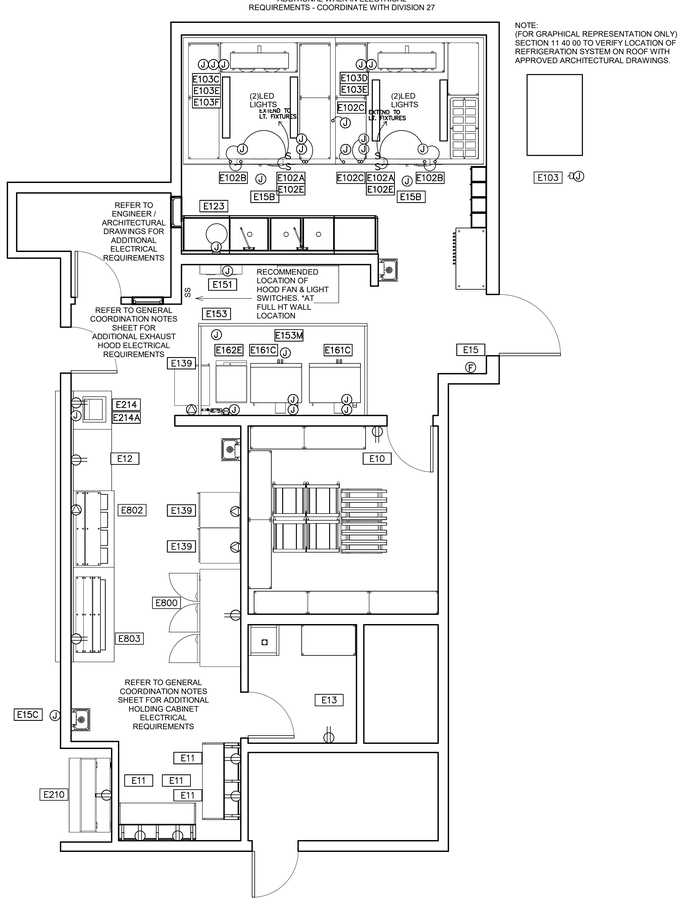
REMOTE GFCI RESET SWITCHES TO BE ACCESSIBLE TO USER. REFER TO ELECTRICAL ENGINEERING DRAWINGS.

GFCI BREAKER FOR ALL RECEPTACLES UNDERNEATH EXHAUST HOODS (WHEN SHOWN), AND RECEPTACLES FOR HOLDING CABINETS (WHEN SHOWN) TO BE LOCATED WITHIN KITCHEN ELECTRICAL BREAKER PANEL AND NOT AT THE RECEPTACLES.

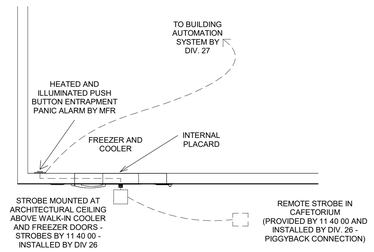


3 FOOD SERVICE EQUIPMENT - LIFE SKILLS CENTER ELECTRICAL PLAN
1/4" = 1'-0"

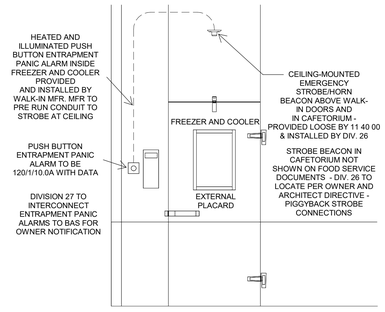
FOOD SERVICE ELECTRICAL SCHEDULE								
REFER TO SHEET QF1 FOR ELECTRICAL COORDINATION NOTES								
FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH	FDP ESERVICE TO	FDP ELOC	FDP EAFF	FDP REMARKS
E10	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	24"	---
E11	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	47"	MOUNT HORIZONTAL
E12	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	47"	---
E13	WPR	16.0A	120	1	CONVENIENCE OUTLET	WALL	48"	---
E15	JB	---	---	--	REMOTE FIRE PULL	WALL	54"	BTC; RECESSED JB - EXTEND TO FIRE SYSTEM FOR HOOD
E15B	JB	---	---	---	STROBE LIGHT	CLG	DFA	JB MOUNTED IN CEILING OUTSIDE CLR FRZ DOOR
E15C	JB	---	---	---	REMOTE STROBE LIGHT	WALL	96"	LOCATE PER OWNERS DIRECTION NO LOAD OR VOLTAGE
E102A	JB	16.0A	120	1	DOOR HEATER/LIGHTS	CLG	DFA	BTC
E102B	JB	5.0A	120	1	TEMP. ALARM	CLG	DFA	BTC
E102C	JB	5.0A	120	1	PRESSURE RELIEF PORT	CLG	DFA	BTC
E102E	JB	10.0A	120	1	PANIC ALARM BUTTON	CLG	DFA	BTC; INTERCONNECT TO STROBE LIGHT/HORN ABOVE FREEZER & COOLER DOOR AT ARCHITECTS CEILING
E103	JB/DS	25.0A	208	3	REFRIGERATION SYSTEM	VERIFY	VERIFY	BTC - WEATHERPROOF DISCONNECT SWITCH
E103C	JB	8.2A	208	1	FREEZER COIL	CLG	DFA	BTC
E103D	JB	2.0A	120	1	COOLER COIL	CLG	DFA	BTC
E103E	JB	---	---	---	DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT
E123	JB	3.0HP	208	3	DISPOSER	WALL	24"	BTC - CONNECT THRU C.P. TO DISPOSER
E139	SR	7.2A	208	1	INSUL. MOBILE PROOFER	VERIFY	48"	VERIFY NEMA PLUG
E151	JB	1.0A	120	1	FIRE PROT. SYSTEM	CLG	DFA	BTC
E153	JB	10.0A	120	1	HOOD LIGHTS	CLG	DFA	BTC
E153M	JB	10.0A	120	1	HEAT SENSOR	CLG	DFA	BTC
E161C	(2)JB	30.0A	480	3	CONVECTION OVEN	WALL	24"/36"	BTC; SHUNT TRIP BREAKER
E162E	JB	48.0A	208	3	CONVECTION STEAMER	WALL	48"	BTC; SHUNT TRIP BREAKER
E210	DR	3.2A	120	1	DROP FRONT MILK COOLER-16 CASE	WALL	24"	---
E214	DR	16.0A	120	1	CASH REGISTER	WALL	24"	DEDICATED CIRCUIT
E214A	JB	---	---	---	POS	WALL	24"	BTC; CONDUIT W/DATA LINE TO RUN TO MANAGER'S OFFICE OR IDF ROOM-VERIFY
E800	DR	7.9A	120	1	REFRIGERATOR REACH-IN 3DR.	WALL	96"	MOUNT HORIZONTAL
E802	JB	17.3A	208	1	(4) HOT WELLS	WALL	24"	
E803	DR	5.2A	120	1	(4) COLD PAN	WALL	24"	
E804	DR	20.0A	115	1	RANGE HOOD	WALL	60"	

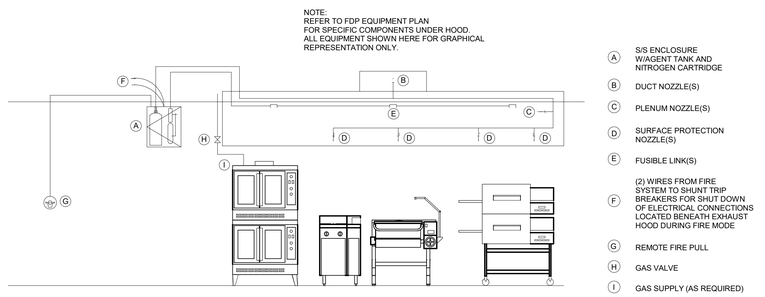


1 FOOD SERVICE ELECTRICAL PLAN
1/4" = 1'-0"

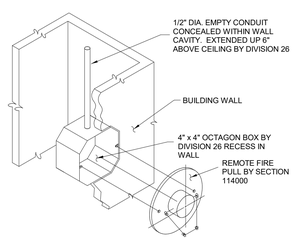


6 COLD STORAGE ASSEMBLY ENTRAPMENT PANIC ALARM DETAIL2
NOT TO SCALE





4 FIRE PROTECTION SYSTEM TYPICAL DETAIL
NOT TO SCALE



5 FIRE PROTECTION SYSTEM RECESSED FIRE PULL DETAIL
NOT TO SCALE

	SCR	CONDUIT STUB BTC ON RECEPT FURNISH WITH EQUIPMENT		CC	CONDUIT FOR COMPUTER CABLES
•	CS	CONDUIT STUB UP/OUT FOR DIRECT CONNECTION		BTC	BRANCH TO CONNECTION ON EQUIPMENT
	DR	DUPLEX RECEPTACLE		WPR	WATERPROOF RECEPTACLE (SPRING COVER)
	SR	SINGLE PURPOSE RECEPTACLE-1PH		FPB	FIRE PROTECTION BUZZER
	SR	SINGLE PURPOSE RECPTACLE-3PH		BSC	BEVERAGE SYSTEM CONDUIT
	FR	FLUSH FLOOR RECEPTACLE		DFA	DROP FROM ABOVE
	PMR	PEDESTAL MOUNTED RECEPTACLE		AFF	ABOVE FINISH FLOOR
	DCR	DROP CORD RECEPTACLE		CSJB	JUNCTION BOX ON PEDESTAL
	JB	JUNCTION BOX ON CEILING		SW	SWITCH
	JB	JUNCTION BOX IN WALL		D	DATA
	JB/DS	JUNCTION BOX WITH DISCONNECT BY DIV.26			

2 ELECTRICAL SYMBOLS
NOT TO SCALE

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXAS
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T 361.884.2661
222 E. 3rd, SUITE 102
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3701 W. 10th, SUITE 205
McALLEN, TEXAS
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T 956.686.0100
F 956.622.7313

CONSULTANTS:

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HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES 1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4481

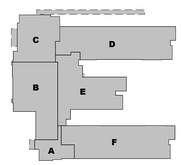
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

FOR INTERIM REVIEW
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND ARE NOT INTENDED FOR BIDDING, PERMIT, OR CONSTRUCTION PURPOSES.
RAYMOND D. GIGNAC #6296
EXP. DATE: 11-30-2024

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING, TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: RD
Checked: RG

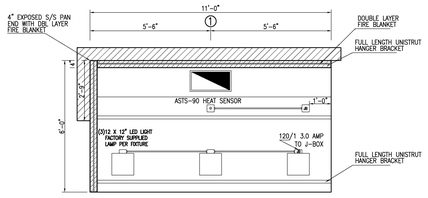
Revisions:

No.	Description	Date

Sheet Title:

FS ELECTRICAL PLAN

QF1.5



HOOD WGT. – 1045 LBS

Ⓐ PLAN – MODEL W ITEM 152
SCALE 3/8"=1'-0"

EXHAUST COLLAR CHART					
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
1	10" X 21"	210	2310	1584	.50"

SUPPLY COLLAR CHART					
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
2	8" X 18"	100	550	550	.30"
3	8" X 18"	100	550	550	.30"

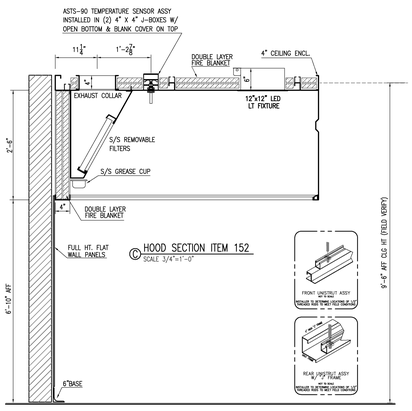
304 STAINLESS STEEL USED FOR HOOD CONSTRUCTION AND ALL EXPOSED AREAS

HOODS DESIGNED TO MEET TO THE 2015 IECC C403.2.8, 2018 IECC AND 2021 IECC C403.7.5 UNDER 5,000 CFM TOTAL KITCHEN HOOD EXHAUST.

NOTE TO G.C. AND CEILING GRID INSTALLERS :

FASTENERS FOR CEILING GRID SURROUNDING KITCHEN HOOD MUST NOT PENETRATE HOOD CAPTURE AREA OR HOOD GREASE PLENUM. IMPROPER PENETRATIONS THROUGH HOOD IN THESE AREAS VIOLATE HOOD U.L. PROCEDURE AND LOCAL MECHANICAL CODE.

PROVIDE FILTER REMOVAL TOOL



Ⓒ HOOD SECTION ITEM 152
SCALE 3/4"=1'-0"

UL FILE # MH 30031

2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

HARMONY PS-MIDLAND — **FDP**

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COMMERCIAL KITCHENS INC.

2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

NO.	DATE	REVISION	BY
152	11.13.25	MUA removed per FDP request	
152			

DRAWING # D25-2117-1.152rev1
DRAWN BY JO
CHECKED BY ADC
DATE Oct. 20, 2025

SHEET 1 OF 1 SHEET

GIGNAC | ARCHITECTS
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T 956.365.4820
370 N. 10th, SUITE
205
McALLEN, TEXAS
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T 956.686.0100

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
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Tel : 210-546-0200

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Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
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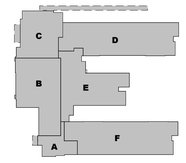
RAYMOND D. GIGNAC #6296
EXP. DATE: 11-30-2024

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING, TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

Sheet Title:

FS EXHAUST HOODS

QF1.6

AUTO START THERMAL SENSOR ASTS–90 STANDARD WIRING CONFIGURATIONS

MOD–U–SERVE WILL PROVIDE THE FOLLOWING:

- (1) J BOX 1'–0" FROM END OF HOOD ON HOODS 5'–0" OR GREATER IN LENGTH
- ½" EMT FROM FIRST ASTS.90 TO J BOX WILL BE FACTORY INSTALLED WITH WIRE RAN
- THE WIRE AND THE ½" EMT BETWEEN CONTINUOUS CAPTURE HOOD SECTIONS

INSTALLER / ELECTRICAL SCOPE OF WORK:

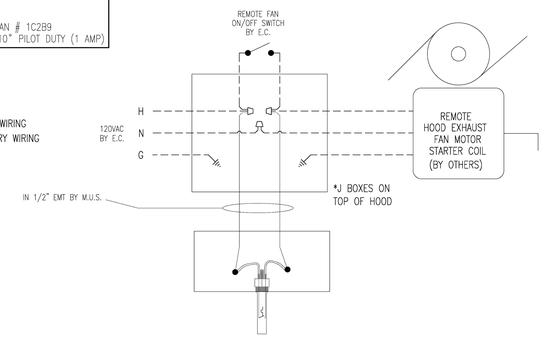
- INSTALL THE PROVIDED ½" EMT BETWEEN HOOD SECTIONS
- PULL THE PROVIDED WIRES THROUGH THE PROVIDED EMT TO CONNECT THE SENSORS OVER CONTINUOUS CAPTURE FIELD JOINTS
- BRING POWER TO J BOX LOCATED ON HOOD AND MAKE FINAL CONNECTIONS
- WALL SWITCHES AND HEAT SENSORS WIRED PARALLEL

*** WALL SWITCHES AND FAN STARTERS NOT PROVIDED BY MOD–U–SERVE WHEN ASTS.90 HEAT SENSOR HOODS ARE REQUIRED ***

AUTO START THERMAL SENSOR ASTS–90

THERMOSTAT– VULCAN # 1C2B9
FACTORY PRE–SET TO 110° PILOT DUTY (1 AMP)

SINGLE HOOD CKT



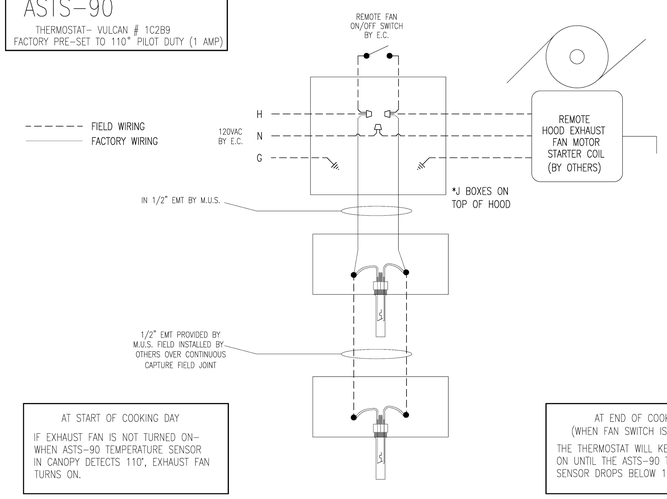
AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ON– WHEN ASTS–90 TEMPERATURE SENSOR IN CANOPY DETECTS 110°, EXHAUST FAN TURNS ON.

AT END OF COOKING DAY
(WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN ON UNTIL THE ASTS–90 TEMPERATURE SENSOR DROPS BELOW 110° F.

AUTO START THERMAL SENSOR ASTS–90

THERMOSTAT– VULCAN # 1C2B9
FACTORY PRE–SET TO 110° PILOT DUTY (1 AMP)

DOUBLE HOOD CKT



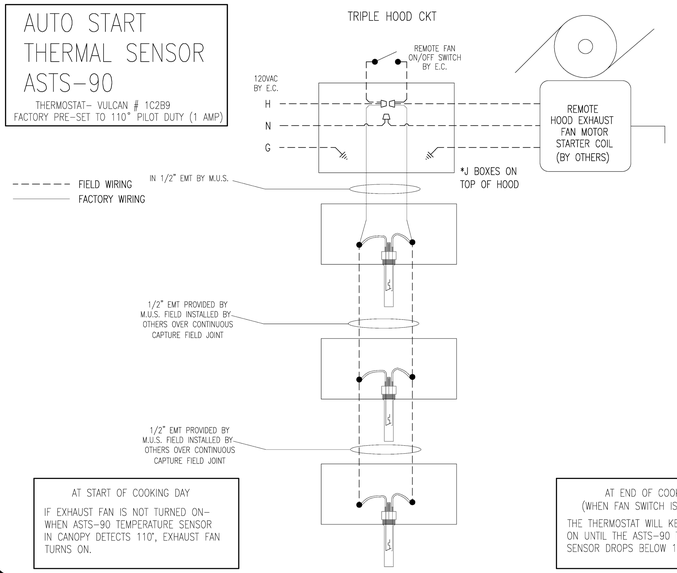
AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ON– WHEN ASTS–90 TEMPERATURE SENSOR IN CANOPY DETECTS 110°, EXHAUST FAN TURNS ON.

AT END OF COOKING DAY
(WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN ON UNTIL THE ASTS–90 TEMPERATURE SENSOR DROPS BELOW 110° F.

AUTO START THERMAL SENSOR ASTS–90

THERMOSTAT– VULCAN # 1C2B9
FACTORY PRE–SET TO 110° PILOT DUTY (1 AMP)

TRIPLE HOOD CKT



AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ON– WHEN ASTS–90 TEMPERATURE SENSOR IN CANOPY DETECTS 110°, EXHAUST FAN TURNS ON.

AT END OF COOKING DAY
(WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN ON UNTIL THE ASTS–90 TEMPERATURE SENSOR DROPS BELOW 110° F.

UL FILE # MH 30031
MOD U SERVE NSF Air Systems
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

ASTS.90 HEAT SENSORS
MOD-U-SERVE

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COMMERCIAL KITCHENS INC.
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

NO.	DATE	REVISION	BY

DRAWING # ASTS.90 HEAT SENSOR
DRAWN BY ADC
CHECKED BY
DATE July 29, 2025
SHEET 1 OF 1 SHEET

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS
78401
T 361.884.2661
222 E. 200 BLVD, SUITE
102
HARLINGEN, TEXAS 78550
T 956.365.4820
3701 W. MILITARY SUITE
205
McALLEN, TEXAS
78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
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GREEN RUBIANO & ASSOCIATES 1220 W Harrison Ave.
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MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
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San Antonio, Texas 78216
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INFORMATION TECHNOLOGY:
Combs Consulting Group
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Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
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Phone: 281-350-2323

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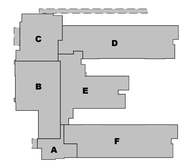
RAYMOND D. GIGNAC #6296
EXP. DATE: 11-30-2024

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING, TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date

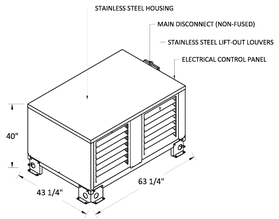
Sheet Title:

FS EXHAUST HOODS

FDP

QF1.6.1

MODEL NO. ROAM01012L01011T3F OUTDOOR AIR COOLED REFRIGERATION SYSTEM
ITEM NO. 103



NOTE:
- CRANKCASE HEATERS
- FAN CYCLING SWITCH
- DOOR SENSORS (SHIPPED LOOSE)

RACK WEIGHT: 530 LBS.

ENGINEERING SUMMARY

POWER SUPPLY: 208-230/60/3
CONNECTED LOAD: 25.0 AMPS

MOPD: 35 AMP
MINIMUM CIRCUIT AMPACITY: 28.0

SYSTEM	ITEM #	DESCRIPTION	FIXTURES: TEMP °F: FIXT.	FIXTURES: TEMP °F: SUCT.	REQ'D FIXTURE BTU/H	REFRIG.	CONDENSING UNIT: COMPRESSOR: MODEL NO.	RATING @ 60 HZ: RLA	V	PH	BTU CAP @ AMB °F: 110	TYPE	ESTIMATED REFRIG. CHARGE (lbs.)	CONDENSER	EVAPORATOR COILS: ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ: RLA	V	PH	HEATERS @ 60 HZ: RLA	V	PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	CONTROLLER QTY	ACCESSORIES: T-STAT	SOL. VALVE	EXP. VALV.	CHECK VELV.	SHUT-OFF F.M.C.	REFRIGERANT LINE SIZES (IN): SUCT.	SUCT. LINE RISER	LIQUID	LINE RUN	EPDT	TYPE	TOTAL SYSTEM LOAD
A	103	WALK-IN COOLER	35	25	8357	454A	YS11KAE	11.2	208	3	11700	Z	8.3	L1R	103	KLP210MA	1	2.0	115	1				O.C.	ECOSMART	1	F	F	EF	L	L	5/8	5/8	3/8	100	M		11.2
B	103	WALK-IN FREEZER	-10	-20	9152	454A	YF10KAE	13.8	208	3	11050	Z	10.3	L2R	103	KLP209LE	1	1.2	208	1	8.2	208	1	ELEC.	ECOSMART	1	F	F	EF	L	L	7/8	5/8	3/8	100	M		13.8

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

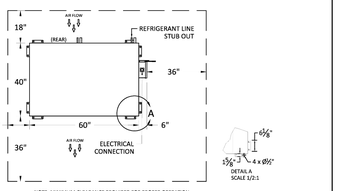
COMPRESSOR TYPE
Z SCROLL
H HERMETIC
S SEMI-HERMETIC
D DISCUS

DEFROST TYPE
O.C. OFF CYCLE
ELEC ELECTRIC

LINE TYPE
M MAIN - UP TO 100'
B BRANCH - UP TO 50'
T TRUNK - UP TO 200'

EVAPORATOR ACCESSORIES
EF EEV FACTORY EQUIPPED ON EVAP
TF TXV FACTORY EQUIPPED ON EVAP
F FACTORY EQUIPPED ON EVAP
O PROVIDED BY OTHERS
L LOOSE (FIELD INSTALLATION)

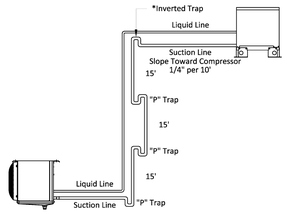
PLANVIEW/ CLEARANCE REQUIREMENTS



NOTE: MINIMUM CLEARANCE REQUIRED FOR PROPER OPERATION

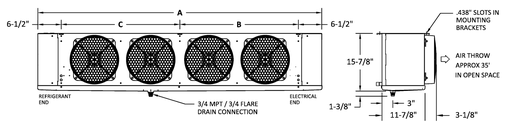
NOTE: ROOF CURB OR GROUND PAD CAN BE SAME SIZE AS OUTDOOR UNIT

SUCTION LINE VERTICAL RISE DETAIL



- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

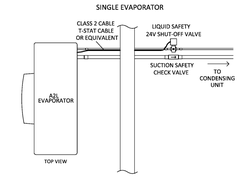
EVAPORATOR DETAILS - MODEL KLP



AIR DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps 115V	208V
210MA	46-1/4	33-1/4	-	1/2 OD	7/8 ID	3/4	70	2	2.0	1.2

ELECTRIC DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/3
206LE	46-1/4	33-1/4	-	1/2 OD	7/8 ID	3/4	80	2	1.2	8.2	5.3	N/A

EVAPORATOR RDS PIPING DIAGRAM



EACH EVAPORATOR COIL:
- EQUIPPED WITH TWO LEAK SENSORS, PRE-MOUNTED AND PRE-WIRED
- SUPPLIED WITH A LIQUID LINE SHUT-OFF VALVE AND SUCTION LINE CHECK VALVE, SHIPPED LOOSE FOR FIELD INSTALL, LOCATED OUTSIDE OF COMPARTMENTS AND NO MORE THAN 10' FROM EVAPORATOR COIL.

PREMIERPAK ENGINEERING SPECS.

Multi or Single-compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "PREMIERPAK", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75168. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System

The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact powder coated steel frame. The entire housing shall be brushed stainless steel. The unit shall include an air-cooled aluminum fin-copper tube condenser designed to operate at 10° - 20° TD. The exterior housing shall feature stainless steel one piece louvers. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. The condenser intake surface shall be protected with stainless steel louvered guard to protect against vandalism and hail damage. Refrigeration system shall operate with the refrigerant specified in the RDT engineering schedule.

The refrigeration system shall be included with the following components:
- Scroll Compressor
- Ball-Bearing Fan Motor
- Suction Filter
- Liquid Drier/Filter
- Sight Glass
- Fan Cycling Controls
- Head Pressure Controls
- Crankcase Heaters
- ¾" Aramflex insulation on all suction lines
- Oil Separator (When Required)
- Oil Reservoir (When Required)
- Oil Control System/OMC (When Required)
- Suction Accumulator (When Required)

2. Pre Piping

All refrigerant lines shall be extend to the outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps. All joints must be brazed-not soldered. All piping and controls shall be factory pressure-tested with dry nitrogen.

3. Control Panel

U.L.-Listed and Labeled pre-wired control panel complete with circuit breakers, contactors wired for single point power connection. Main disconnect (non fused) where required.

4. Evaporator Coils

All Evaporators shall be direct expansion type, fabricated of copper tubes with aluminum fins and will include the following components:
- Factory-Mounted Solenoid Valve
- Factory-Mounted Electronic Expansion Valve
- Factory-Mounted Demand Defrost Controller w/Temperature sensors
- Factroy-Mounted Refrigerant Leak Detectors
- Shipped Loose Liquid Line Shut-off Valve
- Shipped Loose Suction Stop Valve

General Information

General contractor shall verify all dimensions onsite and coordinate with other trades. General contractor shall also prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor

All copper tubing shall be refrigerant grade A.C.R or type "L" and shall meet all local/federal installation codes for labeling. Silver solder or soft solder is not acceptable. All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi. The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation. Refrigeration contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor. **Any isolation valves required in the line set apart from the refrigeration rack system will be supplied by the installation contractor, not RDT.**

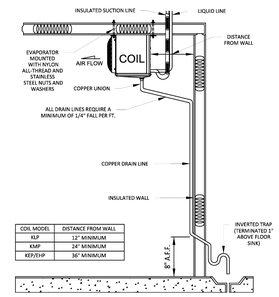
Electrical Contractor

Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram. Electrical contractor to connect drain-line heater in the freezer. All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Electrical contractor shall seal all penetrations through the walk-in units with foam or silicone.

Plumbing Contractor

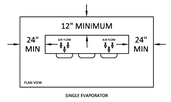
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Plumbing contractor to fit condensate drain lines with — sweat union. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air. Plumbing contractor to provide individual drain-line for each evaporator unless other arrangements made. All plumbing installation shall be in accordance with local codes.

EVAPORATOR MOUNTING DETAIL (TYPICAL)



COIL MODEL	DISTANCE FROM WALL
KLP	12" MINIMUM
KMP	24" MINIMUM
KEP/EHP	36" MINIMUM

EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - KLP)

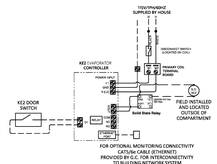


NOTE:
H = TOTAL HEIGHT OF THE EVAP. COIL

WIRING DIAGRAM - ECOSMART - AKEA1AE DEMAND DEFROST W/KE2 DOOR SWITCH FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW:

ITEM	DESCRIPTION	VOLTAGE
103	WALK-IN COOLER	115/1

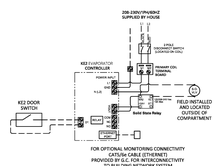


FACTORY WIRING
FIELD WIRING

WIRING DIAGRAM - ECOSMART - AKEB1EE DEMAND DEFROST W/KE2 DOOR SWITCH FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW:

ITEM	DESCRIPTION	VOLTAGE
103	WALK-IN FREEZER	208/1



FACTORY WIRING
FIELD WIRING

APPROVAL STATUS

THIS DRAWING REPRESENTS OUR UNDERSTANDING OF THE SPECIFICATIONS. PLEASE REVIEW IT CAREFULLY FOR ACCURACY, CLEARLY AND IN DETAIL NOTE CHANGES REQUIRED.

MARK APPROPRIATE BOX, SIGN, AND DATE BELOW.

- ☐ APPROVED FOR FABRICATION NO CHANGES
- ☐ APPROVED FOR FABRICATION WITH CHANGES NOTED
- ☐ REVISE AND RE-SUBMIT DRAWING

BY: _____ DATE: _____

NOTICE

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No.	Revision/Issue	Date
0	ORIGINAL ISSUE	10-23-25
1	REMOVED 24" STAND	11-08-25

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(800) 736-9518
www.rdtonline.com

Consultant:
Foodservice Design Professionals
The Woodlands, TX

Dealer
-
-

Harmony Public Schools
Middle-High School of Science
Midland, TX

Project No: 32432
Designed By: M. Willert
Drawn By: M. Willert
Sheet 1.1 of sheets

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FOOD SERVICE DESIGN:
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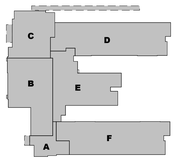
RAYMOND D. GIGNAC #6296
EXP. DATE: 11-30-2024

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING, TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: RD
Checked: RG

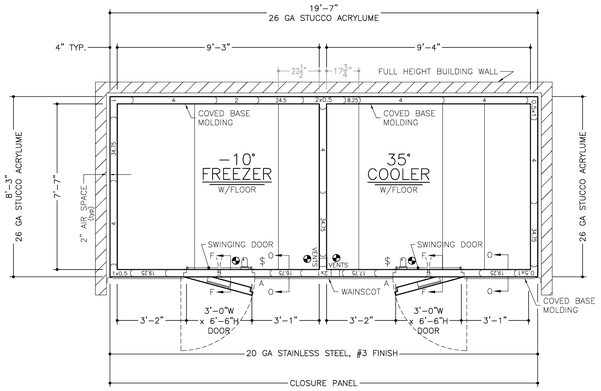
Revisions:

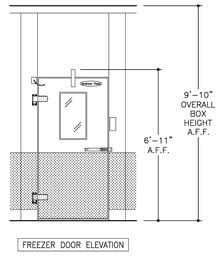
No.	Description	Date

Sheet Title:

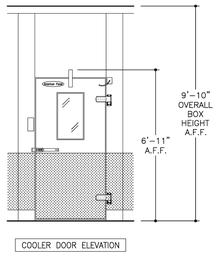
FS CONDENSING UNITS

QF1.7

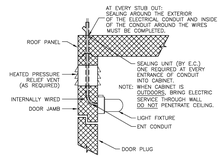




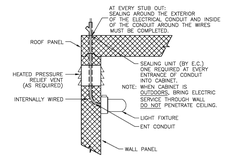
FREEZER DOOR ELEVATION



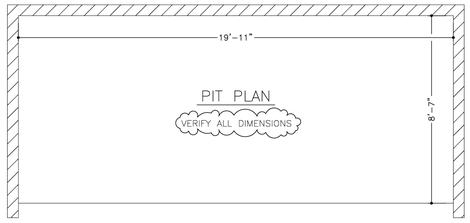
COOLER DOOR ELEVATION

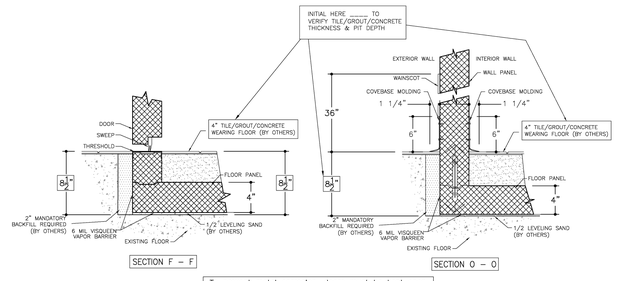


DOOR ELECTRICAL CONNECTION



PANEL MOUNTED ELECTRICAL CONNECTION

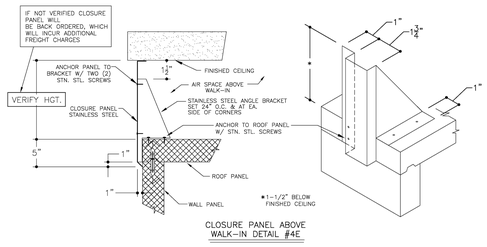




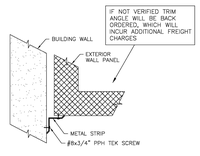
SECTION F – F

SECTION O – O

To prevent metal corrosion, doors must be kept open and air circulating during application and curing of all flooring materials including concrete, grout, epoxy, etc.



CLOSURE PANEL ABOVE WALK–IN DETAIL #4E



TRIM ANGLE DETAIL #2

KASON MODEL 0027/C DOOR HANDLE WITH KASON 1299 TURN KNOB FROST FREE INSIDE RELEASE GLOW IN DARK SURFACE AND TETHER TO INTERNAL STRIKE MECHANISM - ADA COMPLIANT.

PROVIDE AT ALL COMARTMENTS KE2 THERM COMBO DISPLAY MODEL NO. 21877 CONTROL PANEL WITH PANIC BOTTON TIED INTO OWNER'S NETWORK FOR NOTIFICATION CONTROL TO BE SET FOR HI/LOW LIMITS. ROUTE TEMPERATURE SENSOR TO BE LOCATED TO THE SIDE OF THE EVAPORATOR COIL.

~SPECIFICATIONS~

BOX HEIGHT: FREEZER – 10'-6" OVERALL (9'-6" INTERIOR)
COOLER – 10'-6" OVERALL (9'-6" INTERIOR)

CONSTRUCTION: FOAMED IN PLACE
NSF LISTED, STANDARD NO. 7

INSULATION: 4" URETHANE, FINISHED PANEL
UL CLASSIFIED FLAME SPREAD 20
CORE SMOKE DEVELOPED 250

INSTALLATION: INDOOR

FLOOR: (SEE DETAILS) FREEZER – STANDARD
COOLER – STANDARD

DOOR HARDWARE & ACCESSORIES: (EACH DOOR)
SMOOTH POLISHED DOOR HARDWARE
POWER TO BE STUBBED OUT CEILING PANEL
DRY CONTACT LEADS TO BE STUBBED OUT CEILING PANEL IN A SEPARATE STUB OUT
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK
PROVISION & QUARTER TURN INSIDE RELEASE (EXTERIOR DOORS ONLY)
1/8" STAINLESS STEEL THRESHOLD COVER PLATE
14 GA STAINLESS STEEL SUB THRESHOLD
FRAME HEATER WIRE
HYDRAULIC DOOR CLOSER
IC+ WALK–IN DOOR CONTROLLER AND ALARM SYSTEM INCLUDING:
INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3–WAY & 4–WAY CAPABILITY
TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP. AND LOW TEMP. VISUAL AND AUDIO ALARM
F OR C TEMPERATURE SELECTION
INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)
DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED)
HACCP PREVIEW VIA ONBOARD LCD SCREEN
HACCP DOWNLOAD VIA USB
WIFI CONNECTIVITY (INTERNET ENABLED WIFI NETWORK NEEDED)
BATTERY BACKUP
TEMPERATURE ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
POWER FAILURE NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
(FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE
POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT)
AUTOMATIC AND ON DEMAND TRANSMISSION OF HACCP DATA VIA EMAIL
ADAPTIVE SETTINGS
MOMENTARY BACK–TO–BACK LIGHT SWITCH W/PILOT
25° AIR TEMPERATURE PROBE
APCHILL CLOUD CONNECTIVITY TO ENABLE REMOTE MONITORING
ON MOBILE DEVICES AND PUSH NOTIFICATIONS FOR ALARMS
(INTERNET ENABLED WIFI NETWORK NEEDED)
DOOR SWITCH TO ENABLE DOOR AJAR ALARM, DOOR AJAR NOTIFICATION VIA EMAIL &/OR
EMAIL TO SMS TEXT MESSAGES, AND AUTOMATIC LIGHTS ON WHEN DOOR OPENS
KASON #1967–A57 ENTRAPMENT/PANIC ALARM
PANIC ALARM WITH ILLUMINATED PANIC BUTTON, ALARM BUZZER WITH LED,
& NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES (1–COOLER, 1–FREEZER)
KASON SCREW–IN VAPOR PROOF LIGHT FIXTURE
W/8.5 WATT SYLVANIA LED BULB & GLOBE & NIGHT LIGHT
CCI CLEAR VU SWINGING DOOR
2 – KASON #1346 ADJUSTABLE SPRING LOADED HINGES
HEATED VISION WINDOW (14" x 24")
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH I/S & O/S DOOR & FRAME
4 – KASON #1832 PRESSURE RELIEF VENTS W/INDICATOR LIGHTS – FIELD INTERCONNECTION REQUIRED
(FOAMED IN PANEL – PER PLAN) (2–COOLER, 2–FREEZER)

PANEL MOUNTED ACCESSORIES:
ACCESSORIES: (SHIPPED LOOSE) 2 – PCS. TRIM ANGLE – 18 GA STAINLESS STEEL, #3 FINISH
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN) — VERIFY LENGTH
18 GA STAINLESS STEEL, #3 FINISH
2 – 48" (1810LC) LED LIGHT FIXTURE(S) @ 40W EACH
1/8" DIAMOND ALUMINUM TREAD PLATE WAINSCOT @ 36" HIGH (EXPOSED EXTERIOR ONLY)
ALUMINUM COVED BASE MOLDING (COMPLETE INTERIOR ONLY)
20 GA STAINLESS STEEL COVED BASE MOLDING (EXPOSED EXTERIOR ONLY)
2 – BAKELITE LABEL(S) (BLACK) ("FREEZER", "COOLER")
6 MIL POLYETHYLENE VAPOR BARRIER
7 – BELL BOX(ES) & COVER PLATE(S)
2 – DOOR STOP(S)
3 – EDWARDS 860 SERIES STROBE BEACONS

METAL FINISHES: INTERIOR & EXTERIOR DOOR & FRAME – 20 GA STAINLESS STEEL, #3 FINISH
INTERIOR WALLS – WHITE .040 STUCCO ALUMINUM
INTERIOR CEILING – SMOOTH WHITE .040 ALUMINUM (U.S.D.A.)
EXPOSED EXTERIOR – 20 GA STAINLESS STEEL, #3 FINISH
UNEXPOSED EXTERIOR – 26 GA STUCCO ACRYLUME
EXTERIOR FLOOR & CEILING – 26 GA STUCCO ACRYLUME
INTERIOR FLOOR – .100 SMOOTH ALUMINUM

REFRIGERATION: BY OTHERS

NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 57.5" x 118".
NOTE: THE LARGEST ROOF/FLOOR PANEL ON THIS JOB IS 46.5" x 99".
CUSTOMER IS TO VERIFY THAT THIS PANEL SIZE WILL NOT CONFLICT WITH ANY JOB SITE RESTRICTIONS.
NOTE: CUSTOMER IS TO VERIFY ALL DIMENSIONS, SECTIONS, DETAILS AND SPECIFICATIONS
NOTE: MAXIMUM LIGHT CIRCUIT LOAD IS 1200W 120VAC TUNGSTEN, 5A 120VAC ELECTRONIC BALLAST. FOR HIGHER LOADS ADDITIONAL LIGHT FIXTURES MUST BE CONTROLLED VIA RELAY (BY OTHERS).

ELECTRICAL DATA
⚽ = POINT OF ELECTRICAL CONNECTIONS.
WALK–IN DOORS: 115v/1ø – 350w*
PANEL MOUNTED ACC: 115v/1ø – 23w (EACH VENT)

*NOTE: ADD WATTAGE FOR EACH ADDITIONAL LIGHT FIXTURE IN ACCESSORIES.

WALK-IN PANEL		
R-8967		
BUILDING UNITS	R-8967	97M2
USA		
SURFACE BURNING CHARACTERISTICS		
MATERIAL DETAILS	"FLAME SPREAD"	"SMOKE DEVELOPED"
ALUMINUM PANELS, PAINTED OR UNPAINTED, 5" OR LESS	15	350
"GALVANIZED STEEL OR STAINLESS STEEL PANELS, PAINTED OR UNPAINTED, 5" OR LESS"	10	400 TO 500
CORE MATERIAL, 6" THICK	20	250

INSULATION R-VALUES		
PANEL TYPE	COOLER	FREEZER
4" WALLS, ROOFS	R-29	R-32
5" WALLS, ROOFS	R-36	R-40
FLOORS	R-25	R-28
DOORS	R-32	

THE WALK–IN MUST BE INSTALLED ON A PERFECTLY LEVEL AND FLAT SURFACE TO ENSURE PROPER ALIGNMENT AND SMOOTH DOOR OPERATION.

AMERICAN PANEL WALK–IN COOLERS AND FREEZERS COMPLY WITH THE 2024 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C403.11

THIS AMERICAN PANEL WALK–IN WILL BE MANUFACTURED TO UL & NSF REQUIREMENTS. AMERICAN PANEL ACCEPTS NO LIABILITY FOR LOCAL CODE REQUIREMENTS OF WHICH AMERICAN PANEL HAS NOT BEEN MADE AWARE OF IN WRITING PRIOR TO FABRICATION.

FREEZER DOOR	
DOOR FRAME KWH/DAY	4.272

COOLER DOOR	
DOOR FRAME KWH/DAY	2.424

ITEM #102

☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT
SIGNATURE _____
PRINT NAME _____
DATE _____

1) Please verify that door swing and location are correct.

2) If this walk–in is to be installed in a depression, or quarry tile is to be applied to the interior, depression depths or tile thickness must be specified to insure proper door height.

3) All site preparation, floor or slab construction, plumbing, electrical connections (including control wiring) by others.

4) ⚽ Electrical: 115–60–1 required above latch side of each door, through ceiling, to operate frame heater and light.

5) Special note to General Contractor and his Sub Contractor for quarry tile or concrete wearing floors: the sheet metal panel facings may be susceptible to staining due to excessive moisture created by hydration of concrete type materials. Therefore, it is absolutely necessary that each room be properly ventilated. Also note that special precautions must be taken when using muriatic acid due to effects hydrochloric acid fumes have on aluminum and stainless steel.

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American Panel — AMERICAN PANEL CORPORATION
5800 S.E. 78th St. Ocala, Florida 34472
Ph. (352) 245-7055 Fax (352) 245-0726

CUSTOMER: C.P.I.
PROJECT: HARMONY PUBLIC SCHOOLS – MIDLAND HS/MS – MIDLAND, TX
DATE: 11/05/25 | DRAWN BY: GJ/DMM | P.O.#:
SCALE: 3/8"=1'-0" | PROPOSAL #: PD216715 | JOB#: | SHEET: 1 of 1

ALL DIMENSIONS MUST BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION

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EXP. DATE: 11-30-2024

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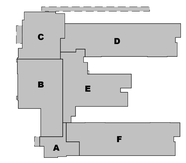


KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: RD
Checked: RG

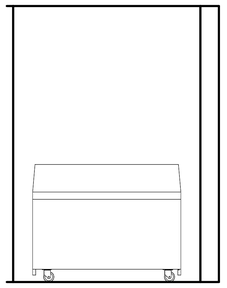
Revisions:

No.	Description	Date

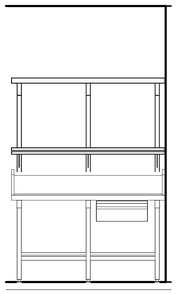
Sheet Title:

FS WALK-INS

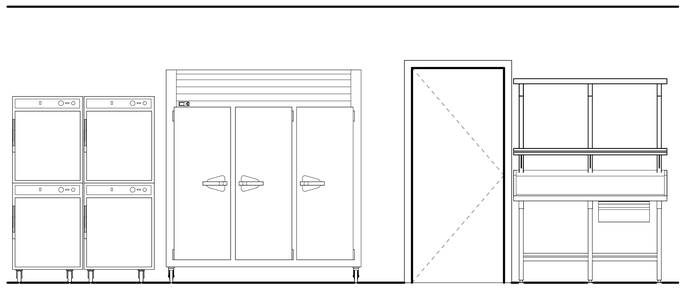
QF1.8



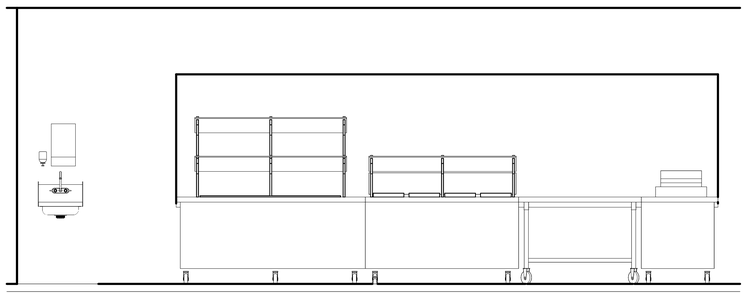
7 ELEVATION @ MILK CASE
1/2" = 1'-0"



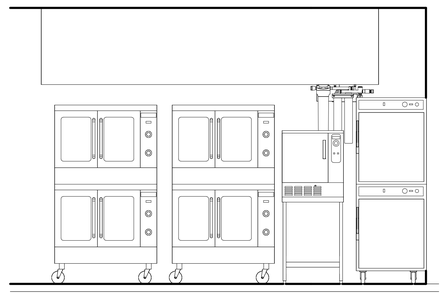
6 ELEVATION @ WORKTABLE
1/2" = 1'-0"



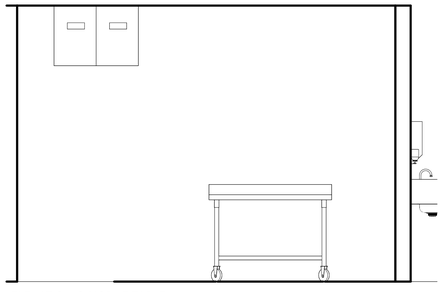
5 ELEVATION @ HOLDING & WORKTABLE
1/2" = 1'-0"



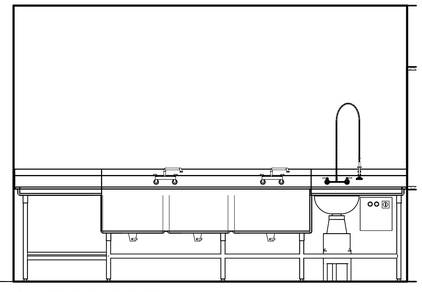
4 ELEVATION @ SERVING COUNTER
1/2" = 1'-0"



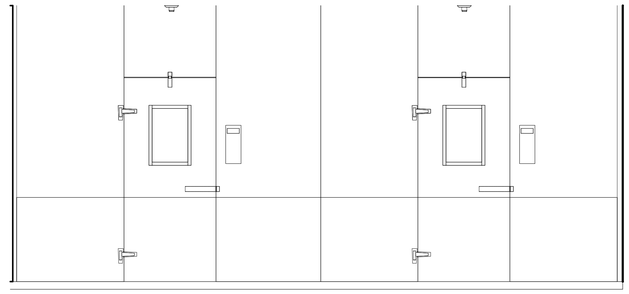
3 ELEVATION @ PRODUCTION
1/2" = 1'-0"



8 ELEVATION @ MOBILE TABLE
1/2" = 1'-0"



2 ELEVATION @ THREE COMPARTMENT SINK
1/2" = 1'-0"



1 ELEVATION @ COLD STORAGE ASSEMBLY
1/2" = 1'-0"

GIGNAC | ARCHITECTS
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STRUCTURAL AND WINDSTORM:
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FOOD SERVICE DESIGN:
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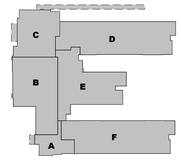
RAYMOND D. GIGNAC #6296
EXP. DATE: 11-30-2024

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026

Drawn: RD
Checked: RG

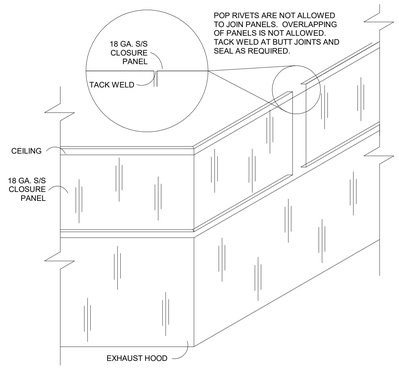
Revisions:

No.	Description	Date

Sheet Title:

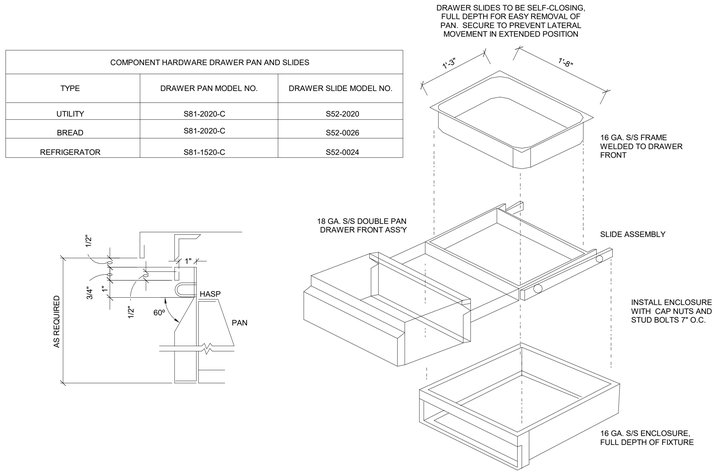
FS
ELEVATIONS

QF1.9

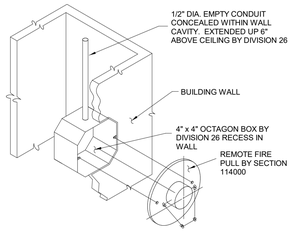


10 EXHAUST HOOD CLOSURE PANEL DETAIL
NOT TO SCALE

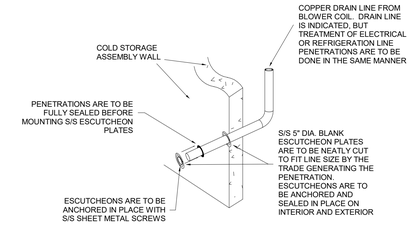
COMPONENT HARDWARE DRAWER PAN AND SLIDES		
TYPE	DRAWER PAN MODEL NO.	DRAWER SLIDE MODEL NO.
UTILITY	S81-2020-C	S52-2020
BREAD	S81-2020-C	S52-0026
REFRIGERATOR	S81-1520-C	S52-0024



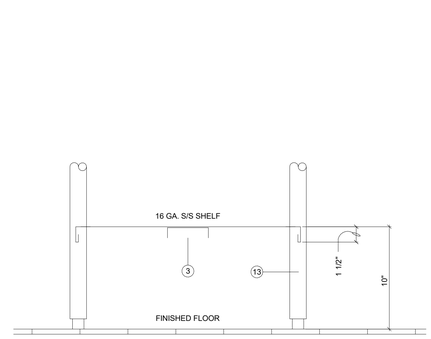
6 DRAWER ASSEMBLY DETAIL
NOT TO SCALE



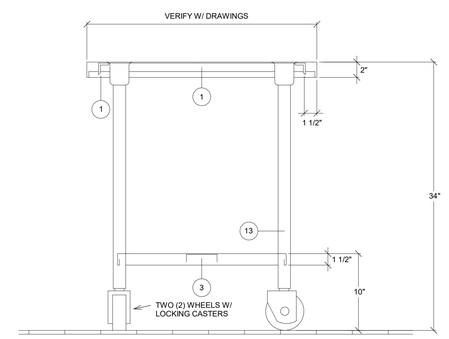
8 FIRE PROTECTION SYSTEM FIRE PULL DETAIL
NOT TO SCALE



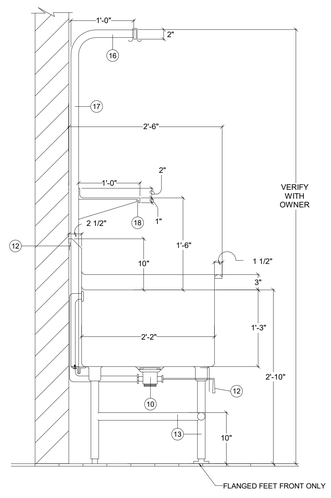
7 COLD STORAGE ASSEMBLY ESCUTCHEON & PENETRATION DETAIL
NOT TO SCALE



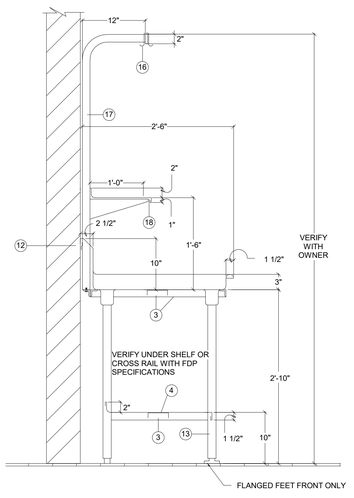
9 UNDER SHELF DETAIL
NOT TO SCALE



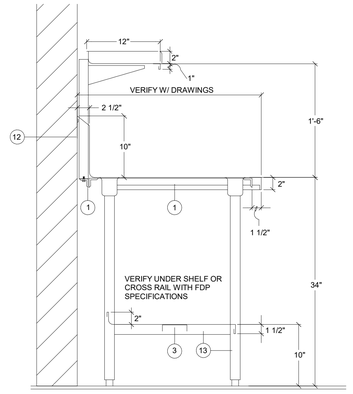
5 WORKTABLE - MOBILE SECTION
NOT TO SCALE



4 SINK - UTENSIL WASH SECTION
NOT TO SCALE



3 DRAINBOARD - UTENSIL WASH SECTION
NOT TO SCALE



2 WORKTABLE W/ OVER SHELF SECTION
NOT TO SCALE

SECTION DETAIL NOTES:

1. 1 1/2" X 1 1/2" X 1/8" GALVANIZED ANGLE IRON.
2. 1" X 4" 14 GAUGE STAINLESS STEEL HAT CHANNEL.
3. 16 GAUGE STAINLESS STEEL C-CHANNEL.
4. 16 GAUGE STAINLESS STEEL UNDER SHELF, COVE UP REAR 2", TURN DOWN FRONT 1 1/2".
5. 1/2" CEMENT BACKERBOARD WITH TILE FRONT BY TRADE CONTRACTOR OR COUNTER MANUFACTURER. VERIFY FINISH WITH ARCHITECTURAL DRAWINGS.
6. COLD PAN - 2" RIGID INSULATION WITH 1" C.P. DRAIN - 16 GAUGE STAINLESS STEEL SECTION FALSE BOTTOM. PERFORATE FALSE BOTTOM WITH 1/4" DIA. HOLES AT 3" O.C.
7. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN DOOR WITH RECESSED PULL.
8. MANIFOLD DRAINS AT HOT FOOD UNITS WITH 1" TYPE 'K' COPPER AND EXTEND TO VALVE IN PLUMBING COMPARTMENT.
9. FINISHED TRUE AND LEVEL MASONRY BASE BY DIVISION 09. CLOSE COUNTER BODY AT BASE AND SEAL BY SECTION 11 40 00.
10. FISHER #22314 DRAIN WITH TAILPIECE AND OVERFLOW.
11. 14 GAUGE STAINLESS STEEL BRACKET WITH DRAIN HANDLE BUSHING.
12. 16 GAUGE STAINLESS STEEL 'Z' CLIP TO WALL AND SEAL.
13. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL LEGS AND CROSS RAILS.
14. 1/2" S/S TUBING DRAIN LINE - STRAP TO SHELF AND WALL - EXTEND DOWN TO TOP OF SPLASH.
15. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL TUBING - SUPPORT FRONT OF SHELF WITH 1/2" ALL-THREAD INSIDE TUBING EXTENDING TO STRUCTURE ABOVE.
16. 1/4" S/S BAR STOCK WELDED TO TOP OF EACH POST - POT HOOKS TO BE COMPONENT HARDWARE #J77-4401 SPACED 8" O.C.
17. 1 5/8" 16 GAUGE STAINLESS STEEL TUBING - BOLT TO ANGLE IRON AND EXTEND UP THRU SPLASH TO 7'-0" A.F.F.
18. OVER SHELF - 16 GAUGE STAINLESS STEEL, COVE UP REAR 2", TURN FRONT AND ENDS DOWN 1", ENDS TO BE CAPPED WITH EASED CORNERS WHERE ADJACENT TO WALL / FIXTURE.
19. 18 GAUGE STAINLESS STEEL LOUVERED PANEL.
20. 18 GAUGE STAINLESS STEEL LOUVERED DOUBLE PAN DOOR WITH RECESSED PULL.
21. NUMBER NOT USED.
22. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN SLIDING DOOR WITH COMPONENT HARDWARE COMPONENTS

    A. #B57 - (VERIFY LENGTH) EXTRUDED ALUMINUM TRACK.
    B. #B58-5511 & #B58-5521 FRONT & REAR DOOR SHEAVES.
    C. #B62-1093 DOOR GUIDE.
    D. #B60-1086 DOOR STOPS WHERE NEEDED.
    E. #P62-1010 RECESS PULLS.

1 SECTION DETAIL NOTES
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KEYPLAN

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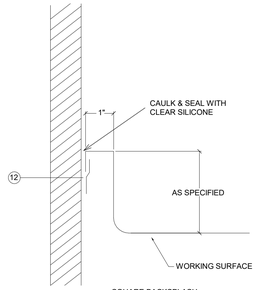
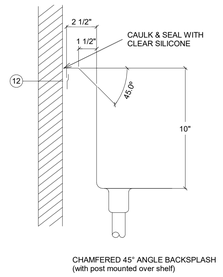
FS SECTIONS & DETAILS

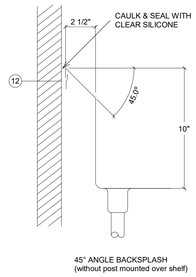
QF1.10



SQUARE BACKSPLASH
(beverage counters, back counters, snack bar counters, concession counters)

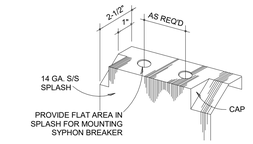


CHAMFERED 45° ANGLE BACKSPLASH
(with post mounted over shelf)

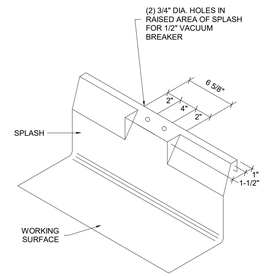


45° ANGLE BACKSPLASH
(without post mounted over shelf)

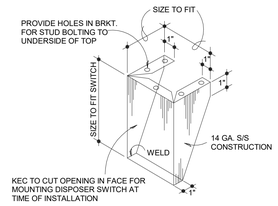
2 BACKSPLASH DETAILS
NOT TO SCALE



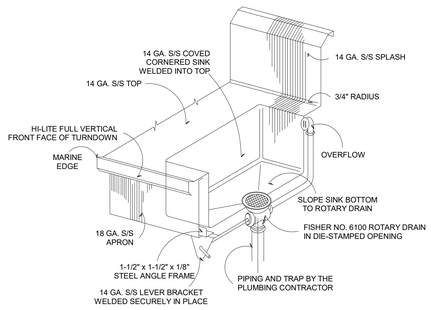
6 SPLASH @ SYPHON BREAKER
NOT TO SCALE



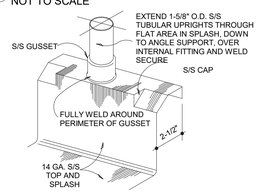
8 VACUUM BREAKER DETAIL
NOT TO SCALE



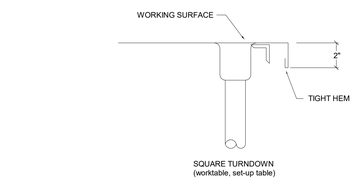
9 DISPOSER SWITCH BRACKET DETAIL
NOT TO SCALE



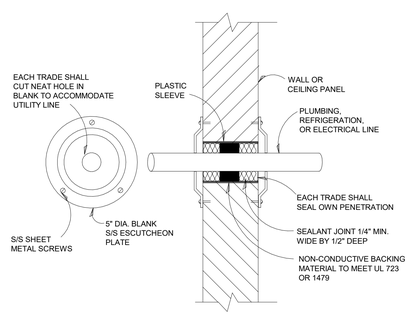
11 SINK ASSEMBLY DETAIL
NOT TO SCALE



7 SPLASH @ UPRIGHT (DISH TABLE) DETAIL
NOT TO SCALE



1 EDGE DETAILS
NOT TO SCALE



15 COLD STORAGE ASSEMBLY WALL PENETRATION DETAIL
NOT TO SCALE

CUSTOM FABRICATION NOTES:

A. WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER, TO COMPLETE SATISFACTION OF FOODSERVICE DESIGN PROFESSIONALS (FDP).

B. STAINLESS STEEL SHALL BE U.S. STANDARD GAUGES AS CALLED FOR. 18-8, TYPE 304, NOT OVER .012% MAXIMUM CARBON, NO. 4 FINISH.

C. GALVANIZED IRON SHALL BE ARMCO OR EQUAL. FRAMEWORK OF GALVANIZED IRON SHALL BE WELDED CONSTRUCTION, HAVING WELDS SMOOTH, AND WHERE GALVANIZING HAS BURNED OFF, TOUCHED UP WITH HIGH-GRADE ALUMINUM BRONZE.

D. LEGS AND CROSSRAIL SHALL BE CONTINUOUSLY WELDED, UNLESS OTHERWISE NOTED, AND GROUND SMOOTH.

E. BOTTOM OF LEGS AT FLOOR SHALL BE FITTED WITH SANITARY STAINLESS STEEL BULLET-TYPE FOOT, WITH NO LESS THAN 1/2" ADJUSTMENT.

F. LEGS SHALL BE FASTENED TO EQUIPMENT AS FOLLOWS:

01. TO SINKS BY MEANS OF CLOSED GUSSETS. GUSSETS SHALL BE S/S, REINFORCED WITH BUSHING, HAVING SET SCREWS FOR SECURING LEGS.

02. TO TABLES AND DRAINBOARDS WITH CLOSED GUSSETS WHICH SHALL BE WELDED TO GALVANIZED HAT SECTIONS OR CHANNELS, 14 GAUGE OR HEAVIER, EXPOSED HAT SECTIONS HAVING CLOSED ENDS. BRACING SHALL BE UNDERSIDE OF TOPS.

G. CLOSED GUSSETS SHALL BE 3" MINIMUM DIAMETER AT TOP, WELDED TO FRAME MEMBERS OR TO SINK BOTTOM.

H. ROLLS SHALL BE 1 1/2" DIAMETER, EXCEPT AS DETAILED TO THE CONTRARY, WITH CORNERS BULLNOSED, GROUND, AND POLISHED.

I. SEAMS AND JOINTS SHALL BE SHOP-WELDED WHERE POSSIBLE. WELDS TO BE GROUND AND POLISHED TO MATCH ORIGINAL FINISH. MATERIALS 18 GAUGE OR HEAVIER SHALL BE WELDED.

J. METAL TOPS SHALL BE ONE-PIECE WELDED CONSTRUCTION UNLESS SPECIFIED OTHERWISE, REINFORCED ON UNDERSIDE WITH GALVANIZED HAT SECTIONS OR CHANNELS WELDED IN PLACE. CROSSBRACE TO BE NOT MORE THAN 30" ON CENTERS.

K. HARDWARE SHALL BE SOLID MATERIALS AND EXCEPT WHERE EXPOSED OR SPECIFIED TO THE CONTRARY, OF CAST BRASS, CHROME-PLATED. IDENTIFY ALL HARDWARE WITH MANUFACTURER'S NAME AND NUMBER SO THAT BROKEN OR WORN PARTS MAY BE ORDERED AND REPLACED.

L. FABRICATE SINK COMPARTMENTS WITH 3/4" COVED VERTICAL AND HORIZONTAL CORNERS. MULTIPLE- COMPARTMENT PARTITIONS TO BE DOUBLE THICKNESS, CONTINUOUSLY WELDED WHERE SHEETS JOIN AT TOP. FRONT OF MULTIPLE-COMPARTMENT PARTITIONS TO BE CONTINUOUS ON EXTERIOR. BOTTOMS SHALL BE CREASED TO DRAIN.

M. ENDS OF FIXTURES, SPLASHBACKS, SHELVES, ETC., SHALL BE FINISHED FLUSH TO WALLS OR ADJOINING FIXTURES.

N. DISHTABLES, DRAINBOARDS, SPLASHBACKS, AND TURN-UP EDGES SHALL HAVE RADIUS BENDS IN ALL HORIZONTAL AND VERTICAL CORNERS, COVED AT INTERSECTIONS.

O. ROUNDED AND COVED CORNERS OR RADIUS BENDS SHALL BE 1/2" RADIUS OR LONGER.

P. UNDERSIDES OF TOPS TO BE COATED WITH HEAVY-BODIED RESINOUS MATERIAL COMPOUND FOR PERMANENT, NON-FLAKING ADHESION TO METAL, 1/8" THICK, APPLIED AFTER REINFORCING MEMBERS HAVE BEEN INSTALLED, DRYING WITHOUT DIRT-CATCHING CREVICES.

Q. SHELVES ARE TO BE TURNED UP 2" ON THE BACK EDGE. TURN OTHER EDGES DOWN 1 1/2" TO FORM OPEN CHANNELS. REINFORCE SHELF UNITS TO SUPPORT 40 LBS. PER SQUARE FOOT LOADING, PLUS 100% IMPACT LOADING.

R. TRIMWORK AND FRAMING AT MASONRY OPENINGS SHALL BE 18 GAUGE STAINLESS STEEL AND FORMED SO AS TO FIT SNUG TO WALLS AND ADJACENT SURFACES. FRAMING SHALL EXTEND A MINIMUM OF 2" ON EACH SURFACE. SEAL TRIMWORK TO WALLS. REFER TO DRAWINGS.

S. METAL COMPONENTS, UNLESS SPECIFIED OR NOTED OTHERWISE, TO BE THE FOLLOWING GAUGES:

TABLETOPS	14 GAUGE STAINLESS STEEL
WALL SHELVES	16 GAUGE STAINLESS STEEL
UNDER SHELVES	16 GAUGE STAINLESS STEEL
SINKS & DRAINBOARDS	14 GAUGE STAINLESS STEEL
EXHAUST DUCTS	18 GAUGE STAINLESS STEEL
LEGS - 1 5/8" DIA.	16 GAUGE STAINLESS STEEL

10 CUSTOM FAB NOTES
NOT TO SCALE

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KEYPLAN

Project Number: 24.23
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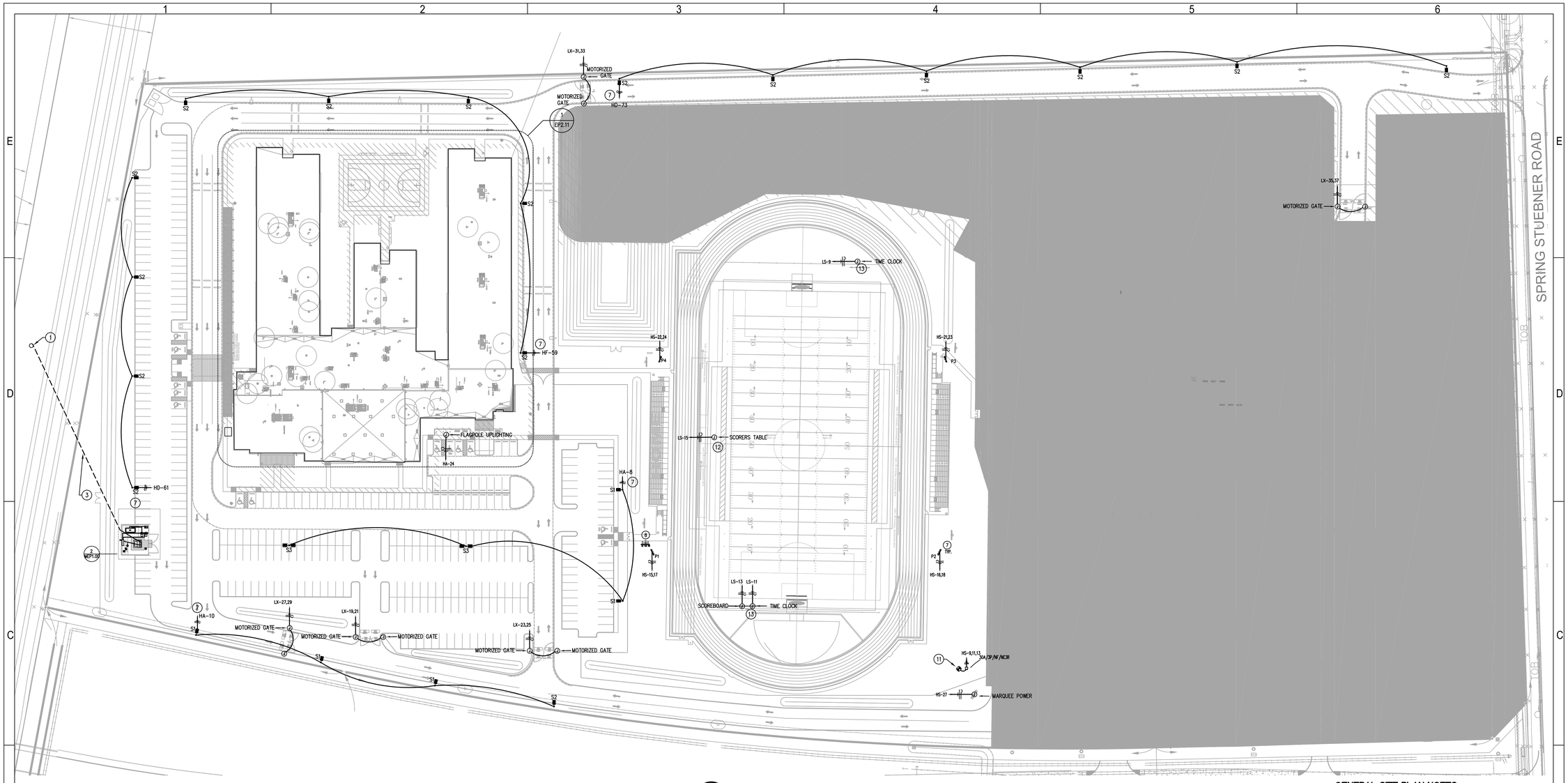
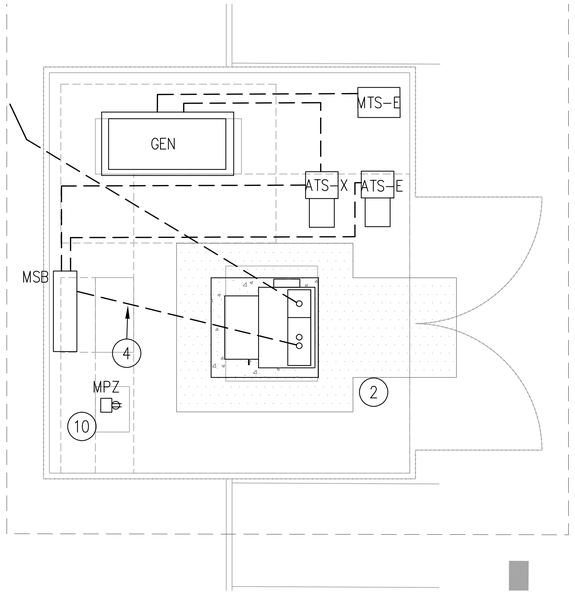
FS DETAILS

QF1.11



1 MEP-100 **MEP SITE PLAN**
1"=50'-0"



2 MEP-100 **ENLARGED ELECTRICAL SERVICE YARD**
3/16" = 1'

ELECTRICAL KEYED NOTES:

1. PROPOSED LOCATION OF RISER POLE BY UTILITY COMPANY.
2. PROPOSED LOCATION OF PAD MOUNT SERVICE TRANSFORMER. PROVIDE PRIMARY AND SECONDARY ROUTING PER CENTERPOINT ENERGY POWER COMPANY STANDARDS. PROVIDE BOLLARDS AND FENCING PER POWER COMPANY STANDARDS. CONTRACTOR SHALL COORDINATE DIRECTLY WITH UTILITY TO PROVIDE TEMPORARY AND PERMANENT POWER WITHIN THE CONSTRUCTION TIMELINE. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. PROPOSED UNDERGROUND PRIMARY SERVICE TO TRANSFORMER. PROVIDE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. REFERENCE DETAIL SHEET FOR REFERENCE DETAIL OF PRIMARY DUCTBANK INSTALLATION – TO BE USED FOR SCOPE ESTIMATION ONLY. DETAILS PROVIDED SHALL BE SUPERCEDED BY UTILITY COMPANY AT TO ADDITIONAL COST TO OWNER.
4. UNDERGROUND SECONDARY DUCTBANK TO NEW SWITCHBOARD 'MSB'.
5. (2) 2" CONDUIT FROM ELECTRICAL ROOM TO PROPERTY LINE. PROVIDE EMPTY WITH PULL STRING.
6. PROVIDE 120V 20A DUPLEX RECEPTACLE MOUNTED INSIDE THE MARQUEE BOARD TO SUPPORT THE FIBER OPTIC MEDIA CONVERTER. PROVIDE (2) #6CU (1) #8 GRD, & 277V TO 120V 1.0KVA ENCAPSULATED STEP-DOWN TRANSFORMER. COORDINATE POWER REQUIREMENTS WITH MARQUEE SIGN PROVIDER.
7. ROUTE CIRCUIT THROUGH CONTRACTOR PROVIDED CONTACTOR AND ROUTE TO BAS. TYPICAL FOR ALL EXTERIOR LIGHTING CIRCUITS.
8. EXTERIOR FIELD PANEL LOCATION. COORDINATE CONDUIT ROUTING AND SIZING WITH FEEDER SCHEDULE PRIOR TO INSTALLATION.
9. PROVIDE 2" CONDUIT WITH PROTECTIVE CAPS, PULL STRINGS AND INSULATED BUSHINGS. COORDINATE WITH TECHNOLOGY DRAWINGS FOR ACCURATE LOCATIONS.
10. PROVIDE 5KVA MINI POWER ZONE. COORDINATE ROUGH-IN LOCATION WITH NEC CLEARANCE REQUIREMENTS PRIOR TO INSTALLATION.
11. EXTERIOR IRRIGATION PUMP AND ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE LOCATED IN ORDER TO ADHERE TO NEC CLEARANCE REQUIREMENTS. COORDINATE WITH UTILITY COMPANY PRIOR TO INSTALLATION
12. PROVIDE DIESEL TANK ADHERING TO OWNER'S DESIRED RUN TIME. COORDINATE DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION.
13. COORDINATE APPROXIMATE LOCATION OF SCORERS TABLE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
14. CONTRACTOR SHALL RUN 4" CONDUIT FOR DATA TO SCORER'S TABLE LOCATION FROM SCOREBOARD
15. PROVIDE LIGHTING CONTACTOR PANEL FOR SPORTS LIGHTING FIXTURES. PROVIDE FIXTURES WITH UL1008 DEVICE. REFERENCE SHEET ES.01 FOR ADDITIONAL INFORMATION.

GENERAL SITE PLAN NOTES:

A. CONTRACTOR SHALL INSTALL ALL RACEWAYS, DUCTBANKS, CONCRETE PADS ETC. REQUIRED BY THE UTILITY COMPANY. OBTAIN WRITTEN INSTRUCTIONS FROM THE UTILITY COMPANY BEFORE ROUGH IN.

B. CONTRACTOR SHALL BORE UNDERNEATH EXISTING PAVEMENT WHERE CONDUITS ARE ROUTED UNDER EXISTING PAVING. SAW CUTTING IS NOT PERMITTED WITHOUT OWNER PERMISSION PRIOR TO BEGINNING WORK.

C. CONDUIT SHALL BE PERMITTED TO BE ROUTED EXPOSED/SURFACE MOUNTED IN MECHANICAL YARDS. EXPOSED CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. ROUTING SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

D. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE SLABS WHEN REQUIRED TO INSTALL NEW RACEWAYS. COORDINATE PROPOSED ROUTING WITH ARCHITECT PRIOR TO SAW CUTTING. CONTRACTOR SHALL PATCH TO MATCH EXISTING CONDITIONS. PERFORM X-RAY SCAN ON ANY POST TENSION SLAB PRIOR TO COMMENCING CUTTING.

E. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER, SANITARY/SEWER, AND/OR GAS LINES THAT MAY BE BURIED IN AREAS OF NEW CONSTRUCTION OR WHEN TRENCHING FOR NEW FEEDERS AND BRANCHES IS REQUIRED. COORDINATE WITH CIVIL PLANS FOR ADDITIONAL INFORMATION.

F. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND CIVIL PLANS FOR EXACT EQUIPMENT LOCATION BEFORE INSTALLATION. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE.

G. THE CONTRACTOR SHALL PROVIDE AND INSTALL PULL STRINGS TO ALL SPARE OR UNUSED UNDERGROUND CONDUITS.

H. CONTRACTOR SHALL PROVIDE CONDUIT AS REQUIRED BY DIVISION 27/28. COORDINATE WITH DIVISION 27/28 SYSTEM PROVIDER FOR EXACT SIZE AND QUANTITY OF CONDUITS REQUIRED.

I. PROVIDE FLUSH WITH GRADE TRAFFIC-RATED CONCRETE PULL-BOXES AS REQUIRED EVERY 250' MAXIMUM FOR ALL BELOW GRADE CONDUIT RUNS SHOWN. LOW VOLTAGE AND LINE VOLTAGE CABLING SHALL NOT BE RUN THROUGH THE SAME PULL BOX.

J. ELECTRICAL SERVICE PULL-BOXES/MANHOLES SHALL BE COORDINATED WITH THE POWER COMPANY. REFER TO POWER COMPANY STANDARDS FOR EXACT REQUIREMENTS.

K. UNDER GROUND BRANCH CIRCUITS CONDUITS SHALL BE A MINIMUM SIZE OF 1 INCH USING #10 AWG CONDUCTORS UNLESS OTHERWISE NOTED.

L. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUIT SHALL BE PROVIDED WITH PULLBOXES AS REQUIRED BY NEC.

M. ALL PULL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. REFER TO CIVIL PLANS FOR FINAL GRADE ELEVATION.

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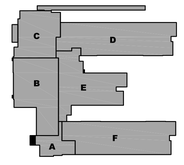

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
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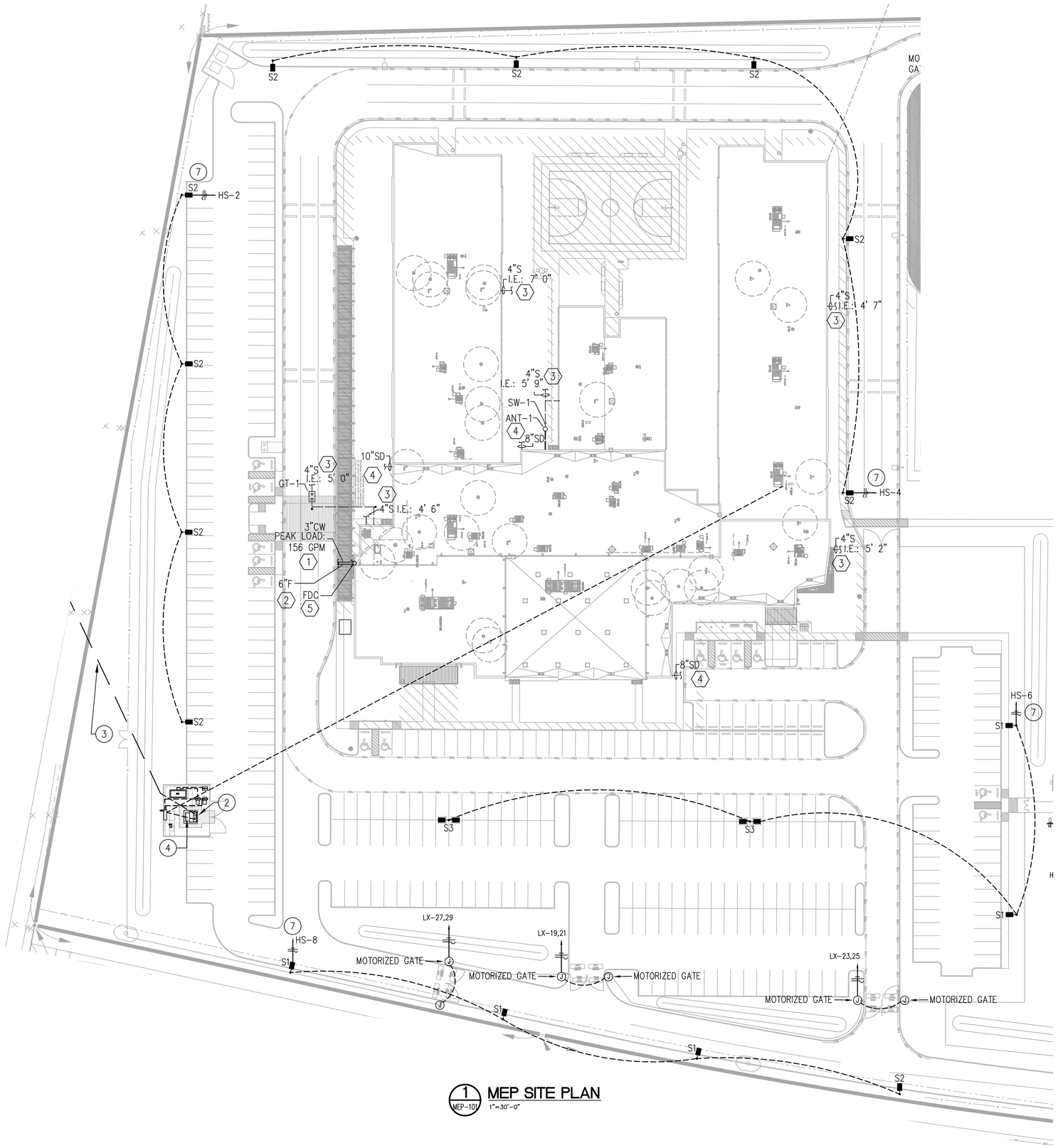
MEP SITE PLAN

MEP-100



1 MEP SITE PLAN
MEP-101 1"=30'-0"

ELECTRICAL KEYED NOTES:

1. PROPOSED LOCATION OF RISER POLE BY UTILITY COMPANY.
2. PROPOSED LOCATION OF PAD MOUNT SERVICE TRANSFORMER. PROVIDE PRIMARY AND SECONDARY ROUTING PER CENTERPOINT ENERGY POWER COMPANY STANDARDS. PROVIDE BOLLARDS AND FENCING PER POWER COMPANY STANDARDS. CONTRACTOR SHALL COORDINATE DIRECTLY WITH UTILITY TO PROVIDE TEMPORARY AND PERMANENT POWER WITHIN THE CONSTRUCTION TIMELINE. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. PROPOSED UNDERGROUND PRIMARY SERVICE TO TRANSFORMER. PROVIDE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. REFERENCE DETAIL SHEET FOR REFERENCE DETAIL OF PRIMARY DUCTBANK INSTALLATION – TO BE USED FOR SCOPE ESTIMATION ONLY. DETAILS PROVIDED SHALL BE SUPERCEDED BY UTILITY COMPANY AT TO ADDITIONAL COST TO OWNER.
4. UNDERGROUND SECONDARY DUCTBANK TO NEW SWITCHBOARD 'MSB'.
5. (2) 2" CONDUIT FROM ELECTRICAL ROOM TO PROPERTY LINE. PROVIDE EMPTY WITH PULL STRING.
6. PROVIDE 120V 20A DUPLEX RECEPTACLE MOUNTED INSIDE THE MARQUEE BOARD TO SUPPORT THE FIBER OPTIC MEDIA CONVERTER. PROVIDE (2) #8CU (1) #8 GRD, & 277V TO 120V 1.0KVA ENCAPSULATED STEP-DOWN TRANSFORMER. COORDINATE POWER REQUIREMENTS WITH MARQUEE SIGN PROVIDER.
7. ROUTE CIRCUIT VIA LIGHTING RELAY PANEL.
8. PROVIDE (2) #8CU, (1) #8 GRD 277V CIRCUIT. ROUTE 1" UNDERGROUND CONDUIT. CONNECT TO GATE OPERATOR MOTOR. ROUTE ADDITIONAL CONDUIT TO KEYPAD, SENSOR, AND ADDITIONAL MOTOR DEVICES AS REQUIRED. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUIT AND ROUGH-IN REQUIREMENTS.
9. ROUTE 1" CONDUIT TO MAGNETIC GATE, PROVIDE STUB-UP NEAR POST ON THE INSIDE OF CAMPUS.
10. PROVIDE 2" CONDUIT WITH PROTECTIVE CAPS, PULL STRINGS AND INSULATED BUSHINGS. COORDINATE WITH TECHNOLOGY DRAWINGS FOR ACCURATE LOCATIONS.

GENERAL SITE PLAN NOTES:

A. CONTRACTOR SHALL INSTALL ALL RACEWAYS, DUCTBANKS, CONCRETE PADS ETC. REQUIRED BY THE UTILITY COMPANY. OBTAIN WRITTEN INSTRUCTIONS FROM THE UTILITY COMPANY BEFORE ROUGH IN.

B. CONTRACTOR SHALL BORE UNDERNEATH EXISTING PAVEMENT WHERE CONDUITS ARE ROUTED UNDER EXISTING PAVING. SAW CUTTING IS NOT PERMITTED WITHOUT OWNER PERMISSION PRIOR TO BEGINNING WORK.

C. CONDUIT SHALL BE PERMITTED TO BE ROUTED EXPOSED/SURFACE MOUNTED IN MECHANICAL YARDS. EXPOSED CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. ROUTING SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

D. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE SLABS WHEN REQUIRED TO INSTALL NEW RACEWAYS. COORDINATE PROPOSED ROUTING WITH ARCHITECT PRIOR TO SAW CUTTING. CONTRACTOR SHALL PATCH TO MATCH EXISTING CONDITIONS. PERFORM X-RAY SCAN ON ANY POST TENSION SLAB PRIOR TO COMMENCING CUTTING.

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F. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND CIVIL PLANS FOR EXACT EQUIPMENT LOCATION BEFORE INSTALLATION. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE.

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H. CONTRACTOR SHALL PROVIDE CONDUIT AS REQUIRED BY DIVISION 27/28. COORDINATE WITH DIVISION 27/28 SYSTEM PROVIDER FOR EXACT SIZE AND QUANTITY OF CONDUITS REQUIRED.

I. PROVIDE FLUSH WITH GRADE TRAFFIC-RATED CONCRETE PULL-BOXES AS REQUIRED EVERY 250' MAXIMUM FOR ALL BELOW GRADE CONDUIT RUNS SHOWN. LOW VOLTAGE AND LINE VOLTAGE CABLING SHALL NOT BE RUN THROUGH THE SAME PULL BOX.

J. ELECTRICAL SERVICE PULL-BOXES/MANHOLES SHALL BE COORDINATED WITH THE POWER COMPANY. REFER TO POWER COMPANY STANDARDS FOR EXACT REQUIREMENTS.

K. UNDER GROUND BRANCH CIRCUITS CONDUITS SHALL BE A MINIMUM SIZE OF 1 INCH USING #10 AWG CONDUCTORS UNLESS OTHERWISE NOTED.

L. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUIT SHALL BE PROVIDED WITH PULLBOXES AS REQUIRED BY NEC.

M. ALL PULL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. REFER TO CIVIL PLANS FOR FINAL GRADE ELEVATION.

PLUMBING KEYED NOTES:

1. PROPOSED LOCATION OF DOMESTIC WATER SERVICE. SIZE AND FLOW AS NOTED. REFER TO CIVIL PLANS FOR CONTINUATION OF LINE BEYOND 5' OUTSIDE OF BUILDING.
2. PROPOSED LOCATION OF FIRE WATER SERVICE. SIZE AS NOTED. REFER TO CIVIL PLANS FOR CONTINUATION OF LINE BEYOND 5' OUTSIDE OF BUILDING.
3. PROPOSED LOCATION OF SANITARY SEWER LINE. SIZE AS NOTED. REFER TO CIVIL PLANS FOR CONTINUATION OF LINE BEYOND 5' OUTSIDE OF BUILDING.
4. PROPOSED LOCATION OF PRIMARY STORM DRAINAGE LINE. SIZE AS NOTED. REFER TO CIVIL PLANS FOR CONTINUATION OF LINE BEYOND 5' OUTSIDE OF BUILDING.
5. PROPOSED LOCATION OF 4" SIAMESE FIRE DEPARTMENT CONNECTION. REFER TO 1-2/P3.05.

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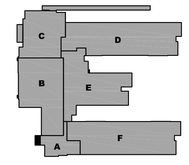

KEYPLAN

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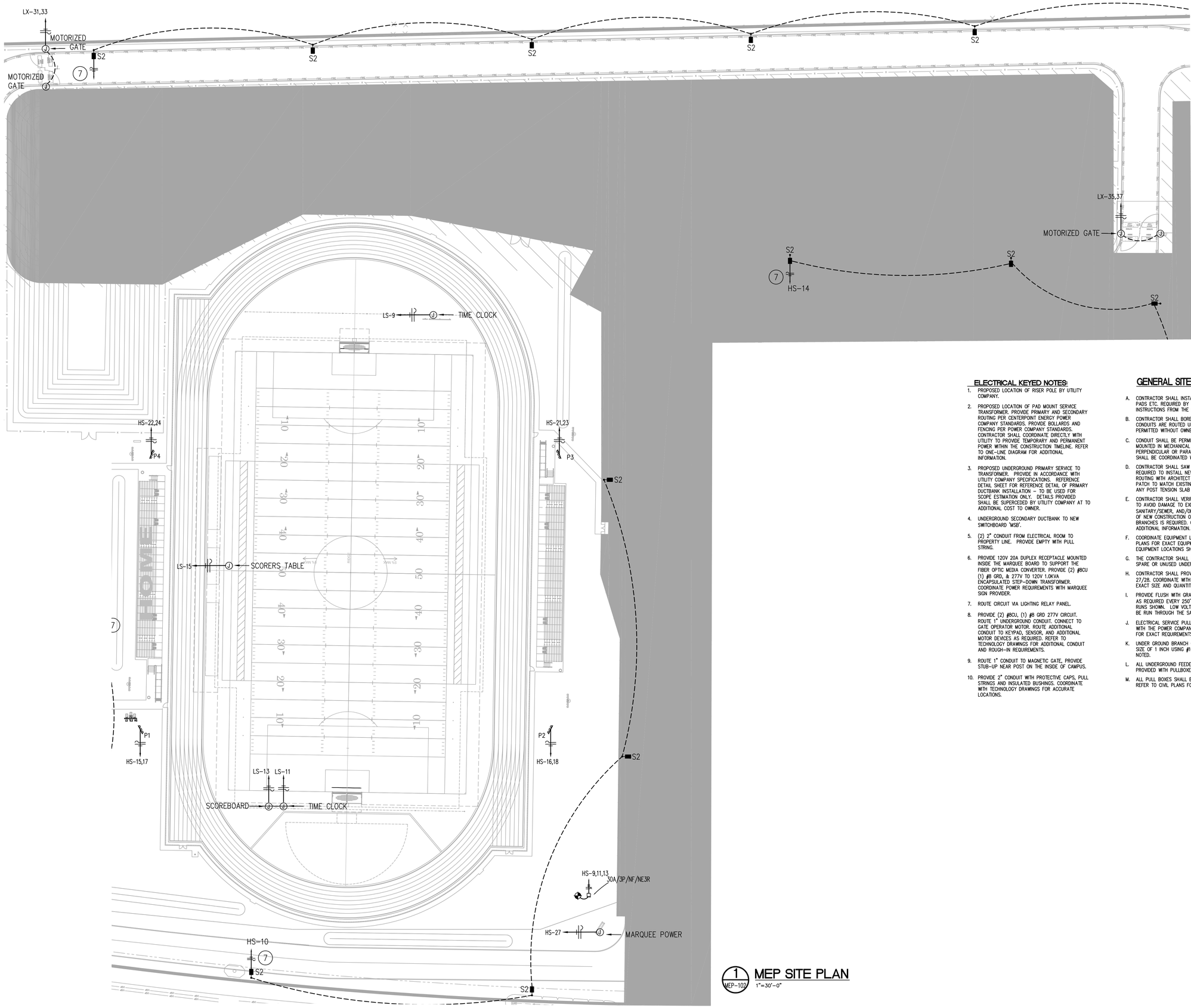
MEP-101



1 MEP-102 MEP SITE PLAN
1"=30'-0"

ELECTRICAL KEYED NOTES:

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2. PROPOSED LOCATION OF PAD MOUNT SERVICE TRANSFORMER. PROVIDE PRIMARY AND SECONDARY ROUTING PER CENTERPOINT ENERGY POWER COMPANY STANDARDS. PROVIDE BOLLARDS AND FENCING PER POWER COMPANY STANDARDS. CONTRACTOR SHALL COORDINATE DIRECTLY WITH UTILITY TO PROVIDE TEMPORARY AND PERMANENT POWER WITHIN THE CONSTRUCTION TIMELINE. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
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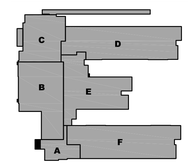

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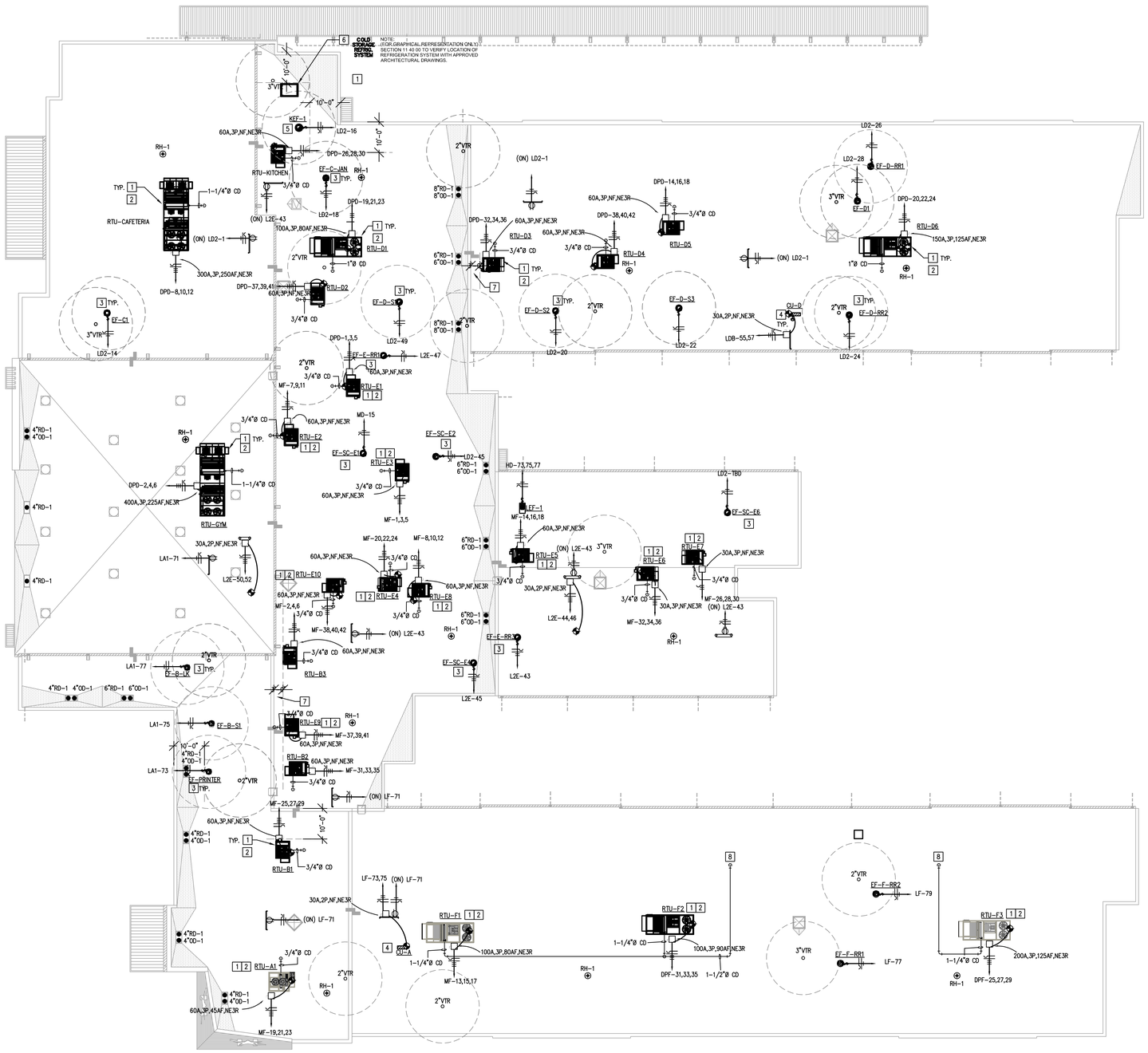
MEP SITE PLAN

MEP-102



1 MEP2.11 **MEP ROOF PLAN**
1/16" = 1'-0"

MECHANICAL KEYED NOTES

1. PROVIDE PACKAGED ROOFTOP UNIT ON ROOF AT APPROXIMATE LOCATION SHOWN. PROVIDE UNIT WITH ROOF CURB TO MATCH ROOF SLOPE. PROVIDE ALL CLEARANCES AROUND UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE FINAL LOCATION WITH STRUCTURAL. RE: DETAIL 19 / M6.01.
2. CONNECT CONDENSATE DRAIN LINE TO ROOFTOP UNIT AND EXTEND THRU THE ROOF. SIZE AS INDICATED. FIELD COORDINATE EXACT ROUTING. PROVIDE WITH P-TRAP AND PIPE ROOF SUPPORTS AT A MAXIMUM OF 10' O.C. RE: DETAIL 16, 20, 21 / M6.01.
3. PROVIDE ROOF MOUNTED EXHAUST FAN AT APPROXIMATE LOCATION SHOWN. PROVIDE FAN WITH ROOF CURB TO MATCH ROOF SLOPE. RE: DETAIL 24 / M6.01.
4. PROVIDE ROOF MOUNTED AIR COOLED CONDENSING UNIT AT APPROXIMATE LOCATION SHOWN. INSTALL UNIT ON ROOF CURB SUPPORTS. PROVIDE ALL CLEARANCES AROUND CONDENSER AS REQUIRED BY EQUIPMENT MANUFACTURER. ROUTE REFRIGERANT PIPING FROM AIR COOLED CONDENSING UNIT THROUGH THE ROOF TO INDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. RE: DETAIL 14, 15, 16, 17 / M6.01.
5. PROVIDE ROOF MOUNTED GREASE UPBLAST EXHAUST FAN AT APPROXIMATE LOCATION SHOWN. PROVIDE FAN WITH ROOF CURB TO MATCH ROOF SLOPE. RE: DETAIL 1 / M6.02.
6. OUTDOOR CONDENSING UNIT PER FOOD SERVICE DRAWINGS. EXTEND REFRIGERANT PIPING THRU THE ROOF AND CONNECT TO EVAPORATOR UNITS. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS. FIELD COORDINATE ROUTING. FOR ADDITIONAL INFORMATION REFER TO FOOD SERVICE PLANS.
7. INSTALL THE RTU AT LEAST 3 FEET FROM THE VERTICAL RISER WALL.
8. RE: M2.11F FOR CONTINUATION.

ELECTRICAL KEYED NOTES

1. REFER TO SHEET EP2.11D FOR REFRIGERATION RACK POWER REQUIREMENTS AND DISCONNECTING MEANS.
2. ALL ROOFTOP SERVICE RECEPTACLES SHALL BE WP/GFCI.

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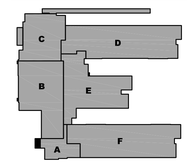

KEYPLAN

Project Number:	24.23
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	ISSUE FOR BID	2026-07-02

Sheet Title:

MEP ROOF PLAN

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https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

MEP2.11

ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT, AIR VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT SIAMESE CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HORIZ	HORIZONTAL
HP	HORSEPOWER
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
INV	INVERT
IW	INDIRECT WASTE

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAN	SANITARY SEWER
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SD	STORM DRAIN
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER

T

TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CORNEAL COMPRESSOR
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VR	VARIABLE AIR VOLUME REHEAT
VTR	VENT THRU ROOF

W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC

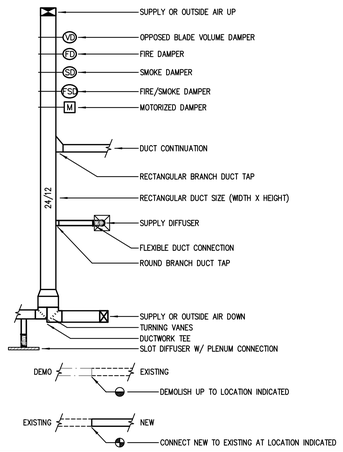
Y

Y	YARD HYDRANT

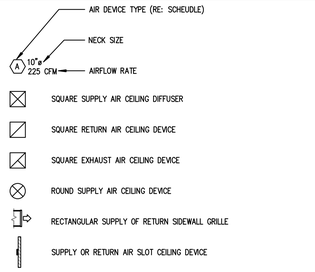
Z

Z	ZONE

DUCTWORK



AIR DEVICE TYPES



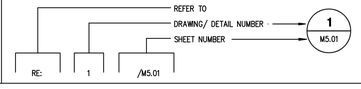
WALL MOUNTED SENSOR TYPES

- (T) THERMOSTAT
- (H) HUMIDISTAT
- (C) CARBON DIOXIDE SENSOR
- (CO) CARBON MONOXIDE SENSOR
- (N) NITROGEN DIOXIDE SENSOR
- ($) ON/OFF SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
REF	REFRIGERANT PIPING SIZED BY MFR.

DRAWING/DETAIL REFERENCE KEY



MECHANICAL GENERAL NOTES

1. PIPING AND DUCTWORK SHOWN ON PLANS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTING, INSULATION, AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATIONS.
2. EXACT LOCATIONS OF EQUIPMENT, GRILLES, AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
3. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND CUTSHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
4. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0".
5. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS.
6. INSTALL EQUIPMENT TO ENSURE ACCESS PANELS ARE NOT BLOCKED. ACCESS FOR SERVICE MUST BE PROVIDED.
7. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
8. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
9. PROVIDE RECTANGULAR BRANCH DUCT TAP FOR ALL RECTANGULAR DUCT CONNECTIONS TO RECTANGULAR DUCT TRUNKS.
10. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR HVAC DUCT CONSTRUCTION.
11. ALL OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR DUCTWORK AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING. REFER TO SPECIFICATION 23 07 13 DUCT INSULATION FOR FURTHER INFORMATION AND ADDITIONAL REQUIREMENTS.
12. ALL DUCTWORK SHALL BE CONSTRUCTED TO SEAL CLASS 'A' AS REFERENCED IN SMACNA STANDARDS. ALL NON-WELDED JOINTS AND SEAMS SHALL BE SEALED. THIS INCLUDES BUT IS NOT LIMITED TO TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS, SPIN-INS, TAPS, AND OTHER BRANCH CONNECTIONS, ACCESS DOORS, ACCESS PANELS, AND DUCT CONNECTIONS TO EQUIPMENT. OPENINGS FOR ROTATING SHAFTS SHALL ALSO BE SEALED WITH BUSHINGS. REFER TO SPECIFICATION 23 31 13 METAL DUCTWORK FOR FURTHER INFORMATION.
13. ALL EXPOSED DUCTWORK AND PIPING WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
14. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE SENSORS AND HUMIDITY SENSORS.
15. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS.
16. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
17. PROVIDE INSULATED ACCESS DOORS FOR DUCTWORK DOWNSTREAM OF AIR HANDLING UNITS AT EVERY 20'-0" TO FACILITATE DUCT CLEANING. PROVIDE ACCESS DOORS WITHIN 5'-0" OF EACH ELBOW.
18. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
19. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICE FINISHES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
20. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
21. ALL PIPING LOCATED INSIDE BUILDING SHALL BE SUPPORTED FROM THE STRUCTURE WITH SADDLE OR TRAPEZE HANGERS WITH ADJUSTABLE CLEVIS OR THREADED RODS.
22. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 15 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
23. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR ALL CONDENSATE DRAIN PIPES CONNECTING TO A SINK DRAIN TAIL PIECE.
24. ALL KITCHEN GREASE EXHAUST DUCTWORK SHALL BE CONTINUOUSLY WELDED 16 GA. CARBON STEEL. ALL GREASE EXHAUST DUCTS SHALL BE WRAPPED WITH 3M 2 HR. FIRE RATED WRAP OR INSTALLED WITHIN A FIRE RATED ENCLOSURE.

ROOF MOUNTED EQUIPMENT ANCHORAGE REQUIREMENTS

1. ALL ROOF MOUNTED EQUIPMENT CURBS, ROOF MOUNTED EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE CONTRACTOR. DESIGN CRITERIA FOR WIND LOADING SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND PER LOCAL CODES FOR THE PROJECT LOCATION AND BUILDING CATEGORY. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE SUBMITTAL SHALL INCLUDE ATTACHMENT DETAILS OF THE EQUIPMENT TO THE STRUCTURE WITH DESIGN LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE CONTRACTOR SHALL ALSO SUBMIT THE INFORMATION TO THE STRUCTURAL ENGINEER TO COORDINATE THE DESIGN OF THE PRIMARY STRUCTURAL FRAME WITH THE FINAL LOADS AND ATTACHMENTS SUBMITTED.

CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	S	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	T	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

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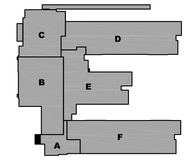

KEYPLAN

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MECHANICAL SYMBOL LEGEND

M0.01

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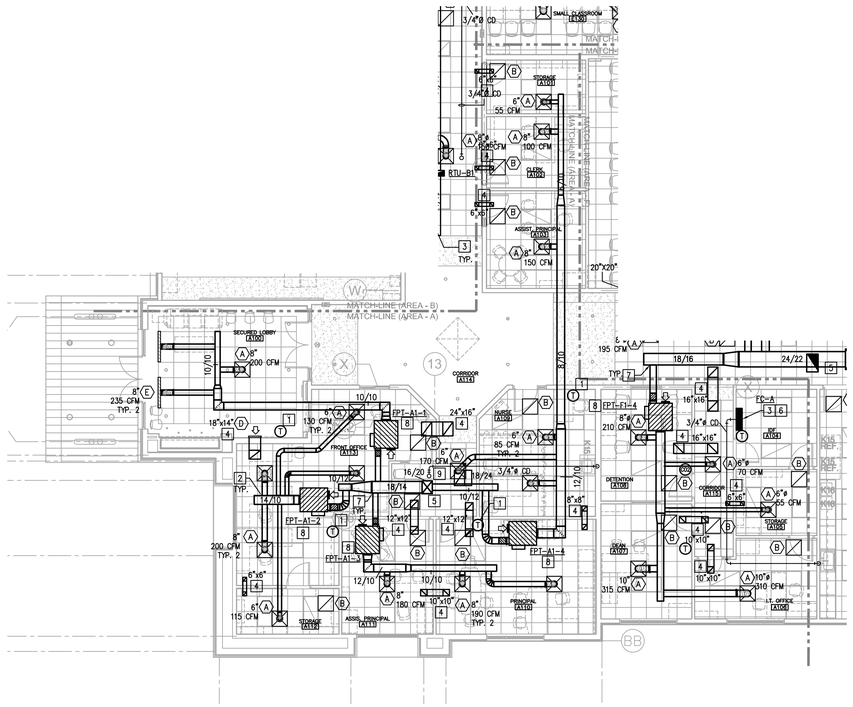

1 M2.11A **MECHANICAL PLAN - AREA A**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

1. PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS. PROVIDE WITH LOCKBOX COVER AT ALL PUBLIC SPACES.
2. PROVIDE SPIN-IN FITTING WITH LOCKING QUADRANT BUTTERFLY DAMPER FOR ALL ROUND DUCT CONNECTIONS TO RECTANGULAR DUCT. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS. DETAIL: RE DETAIL 6, 7, 8, 9 / M6.01.
3. PROVIDE WALL MOUNTED DUCTLESS FAN COIL UNIT AT APPROXIMATE LOCATION SHOWN. INSTALL UNIT AS HIGH AS POSSIBLE ON WALL. ROUTE REFRIGERANT PIPING FROM WALL MOUNTED DUCTLESS FAN COIL UNIT TO ASSOCIATED AIR COOLED CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. FIELD COORDINATE EXACT ROUTING. CONNECT 3/4" CONDENSATE DRAIN AND EXTEND AS NOTED.
4. PROVIDE RETURN AIR TRANSFER BOOT / SIDEWALL RETURN AIR TRANSFER BOOT. SIZE AS INDICATED. DETAIL: RE 10, 11 / M6.01.
5. EXTEND SUPPLY AND RETURN MAIN DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF TOP UNIT. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 19 / M6.01.
6. ROUTE 3/4" CONDENSATE DRAIN LINE TO PLUMBING TAILPIECE LOCATED BELOW SINK. COORDINATE EXACT CONNECTION LOCATION WITH PLUMBING. RE: DETAIL 22, 23 / M6.01.
7. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0". RE: DETAIL 12 / M6.01.
8. PROVIDE FAN POWERED TERMINAL UNIT AT APPROXIMATE LOCATION SHOWN. SUPPORT UNIT FROM STRUCTURE. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. PROVIDE WITH ACCESS DOOR IF LOCATED OVER GYPSUM CEILINGS. RE: DETAIL 13 / M6.01.
9. CONDENSATE DRAIN LINE FROM ROOF. ROUTE TO NEAREST SINK AND TERMINATE AT PLUMBING TAILPIECE. RE: DETAIL 23/M6.01

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FOOD SERVICE DESIGN:
Foodservice Design Professionals
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Ryan Miller
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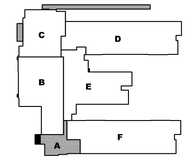

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

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MECHANICAL PLAN - AREA A

DBR
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DBR Project#: 254026.000
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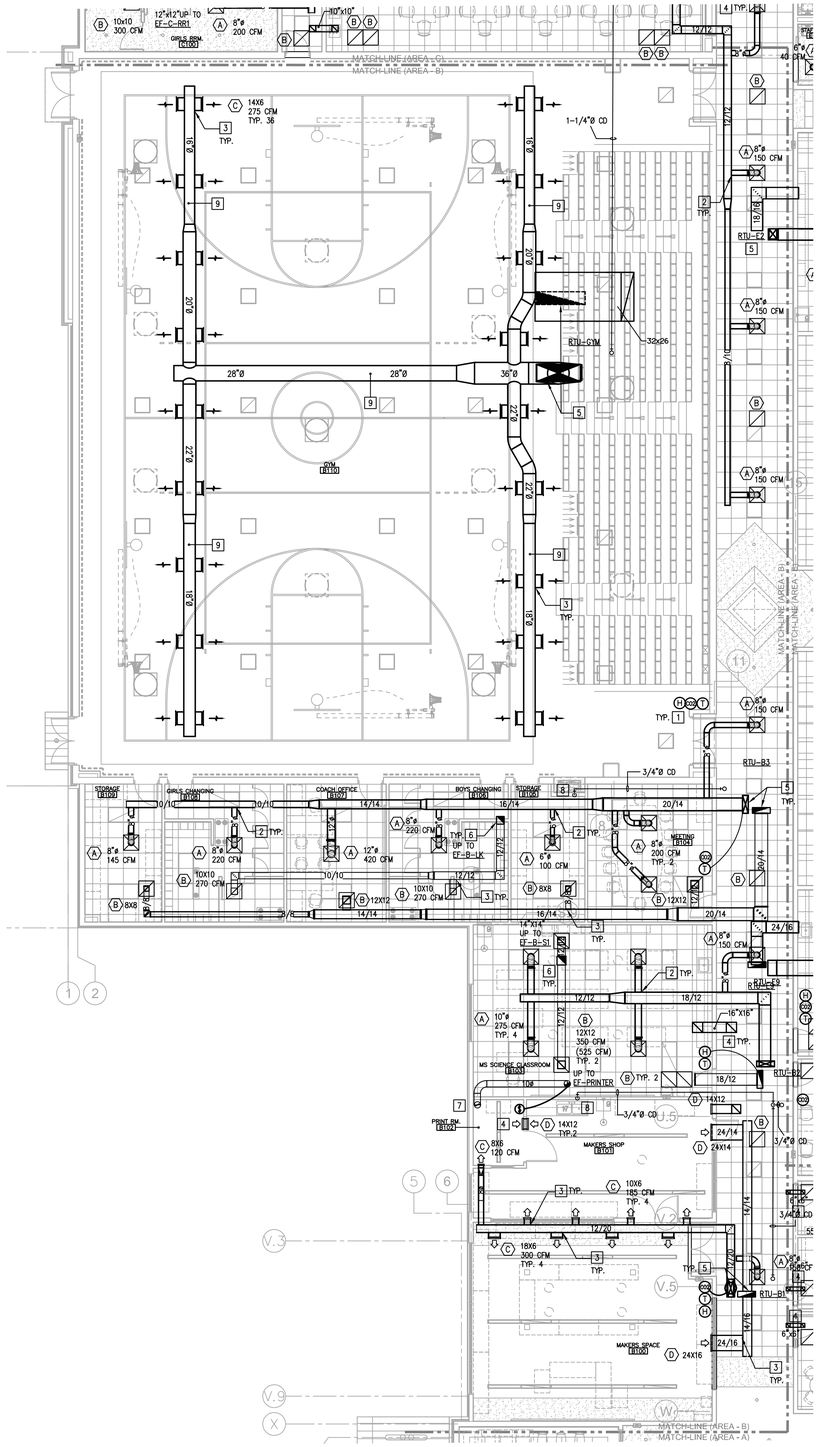
M2.11A



MECHANICAL KEYED NOTES

1. PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS. PROVIDE WITH LOCKBOX COVER AT ALL PUBLIC SPACES.
2. PROVIDE SPIN-IN FITTING WITH LOCKING QUADRANT BUTTERFLY DAMPER FOR ALL ROUND DUCT CONNECTIONS TO RECTANGULAR DUCT. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS. DETAIL: RE DETAIL 6, 7, 8, 9 / M6.01.
3. PROVIDE RECTANGULAR DUCT BRANCH CONNECTION WITH OPPOSED BLADE DAMPER AND LOCKING QUADRANT, USE YOUNG'S REGULATOR IN CEILING IF DAMPER IS NOT ACCESSIBLE. PARALLEL BLADE DAMPER SHALL BE USED IF BRANCH DUCT HEIGHT IS 9" OR LESS INSIDE. TYPICAL. DETAIL: RE 2, 3, 4, 5 / M6.01.
4. PROVIDE RETURN AIR TRANSFER BOOT / SIDEWALL RETURN AIR TRANSFER BOOT. SIZE AS INDICATED. DETAIL: RE 10, 11 / M6.01.
5. EXTEND SUPPLY AND RETURN MAIN DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF TOP UNIT. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 19 / M6.01.
6. EXTEND EXHAUST DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED EXHAUST FAN. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 24 / M6.01.
7. ROUTE EXHAUST DUCT DOWN AND CONNECT TO LASER CUTTER. TRANSITION AS REQUIRED. INTERLOCK EF-PRINTER WITH WALL MOUNTED SWITCH FOR OPERATION AT THE SAME TIME THAN THE LASER PRINTER.
8. ROUTE CONDENSATE DRAIN LINE TO PLUMBING TAILPIECE LOCATED BELOW PLUMBING FIXTURE. COORDINATE EXACT CONNECTION LOCATION WITH PLUMBING.SIZE AS INDICATED ON DRAWING. RE: DETAIL 22, 23 / M6.01.
9. EXPOSED DUCTWORK SHALL BE ROUTED BETWEEN WEB JOIST. FIELD COORDINATE EXACT ROUTING.

1 M2.11B **MECHANICAL PLAN - AREA B**
1/8" = 1'-0"

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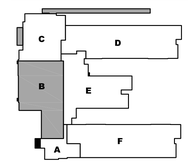

KEYPLAN

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MECHANICAL PLAN - AREA B

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DBR Project# 254026.000
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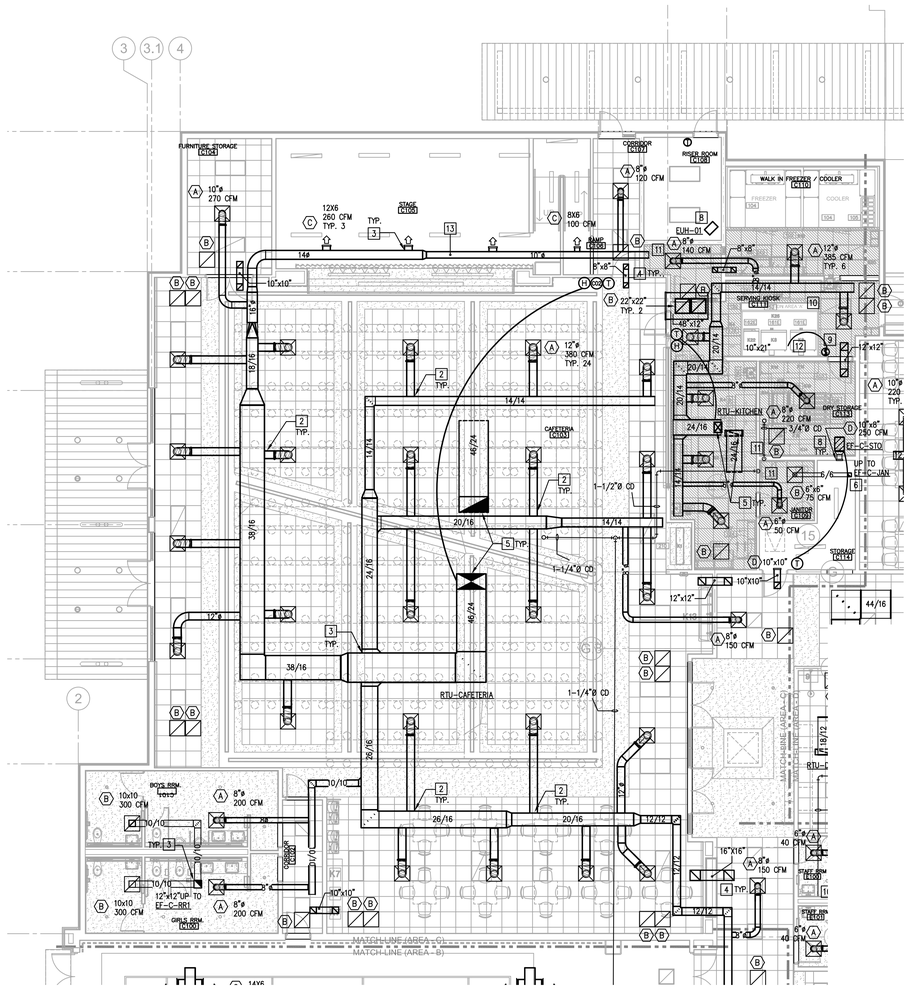
M2.11B



1 M2.11C **MECHANICAL PLAN - AREA C**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

1. PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS. PROVIDE WITH LOCKBOX COVER AT ALL PUBLIC SPACES.
2. PROVIDE SPIN-IN FITTING WITH LOCKING QUADRANT BUTTERFLY DAMPER FOR ALL ROUND DUCT CONNECTIONS TO RECTANGULAR DUCT. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS. DETAIL: RE DETAIL 6, 7, 8, 9 / M6.01.
3. PROVIDE RECTANGULAR DUCT BRANCH CONNECTION WITH OPPOSED BLADE DAMPER AND LOCKING QUADRANT, USE YOUNG'S REGULATOR IN CEILING IF DAMPER IS NOT ACCESSIBLE. PARALLEL BLADE DAMPER SHALL BE USED IF BRANCH DUCT HEIGHT IS 9" OR LESS INSIDE. TYPICAL. DETAIL: RE 2, 3, 4, 5 / M6.01.
4. PROVIDE RETURN AIR TRANSFER BOOT / SIDEWALL RETURN AIR TRANSFER BOOT. SIZE AS INDICATED. DETAIL: RE 10, 11 / M6.01.
5. EXTEND SUPPLY AND RETURN MAIN DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF TOP UNIT. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 19 / M6.01.
6. EXTEND EXHAUST DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED EXHAUST FAN. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 24 / M6.01.
7. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0". RE: DETAIL 12 / M6.01.
8. PROVIDE FAN POWERED TERMINAL UNIT AT APPROXIMATE LOCATION SHOWN. SUPPORT UNIT FROM STRUCTURE. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. PROVIDE WITH ACCESS DOOR IF LOCATED OVER GYPSUM CEILINGS. RE: DETAIL 13 / M6.01.
8. PROVIDE ELECTRIC UNIT HEATER AT APPROXIMATE LOCATION SHOWN. MOUNT AT 10 FEET A.F.F. PROVIDE THERMOSTAT. MOUNT THERMOSTAT AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT AND OTHER TRADES PRIOR TO CONSTRUCTION TO AVOID CONFLICT WITH EQUIPMENT. HEATER SHALL BE SET TO TURN ON THE HEATER WHEN SPACE TEMPERATURE FALLS BELOW 50F.(ADJUSTABLE). RE: DETAIL 26 / M6.01.
9. PROVIDE ON / OFF SWITCH AT APPROXIMATE LOCATION SHOWN. SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS.
10. PROVIDE KITCHEN HOOD AT APPROXIMATE LOCATION SHOWN. SUPPORT UNIT FROM STRUCTURE. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. INSTALL PER MANUFACTURER RECOMMENDATIONS. FOR ADDITIONAL INFORMATION REFER TO FOOD SERVICE PLANS.
11. ROUTE CONDENSATE DRAIN LINE DOWN INSIDE WALL PARTITION AND DISCHARGE 1" ABOVE MOP SINK RIM. PROVIDE WITH CHROME PLATED WALL ESCUTCHEON AT WALL PENETRATION. SIZE AS INDICATED ON DRAWING. COORDINATE EXACT DRAIN LOCATION WITH PLUMBING.
12. GREASE DUCT GOES UP THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF MOUNTED EXHAUST FAN. TRANSITION DUCTWORK AS REQUIRED. GREASE DUCT SHALL BE FIRE WRAPPED WITH 2-HR FIRE RATED WRAP. FIRE WRAP SHALL BE CONTINUOUS FROM THE HOOD TO EXHAUST FAN. SLOPE GREASE DUCT 1/4" PER FOOT TO HOOD AS REQUIRED BY CODE HOOD MANUFACTURER. RE: DETAIL 2 / M6.02.
13. COORDINATE EXPOSED DUCTWORK ROUTING, LOCATION AND INSTALLATION HEIGHT WITH STAGE CURTAIN.

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RYAN G. MILLER
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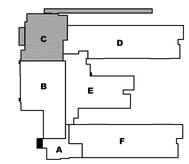

KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

MECHANICAL PLAN - AREA C

DBR
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DBR Project#: 254026.000
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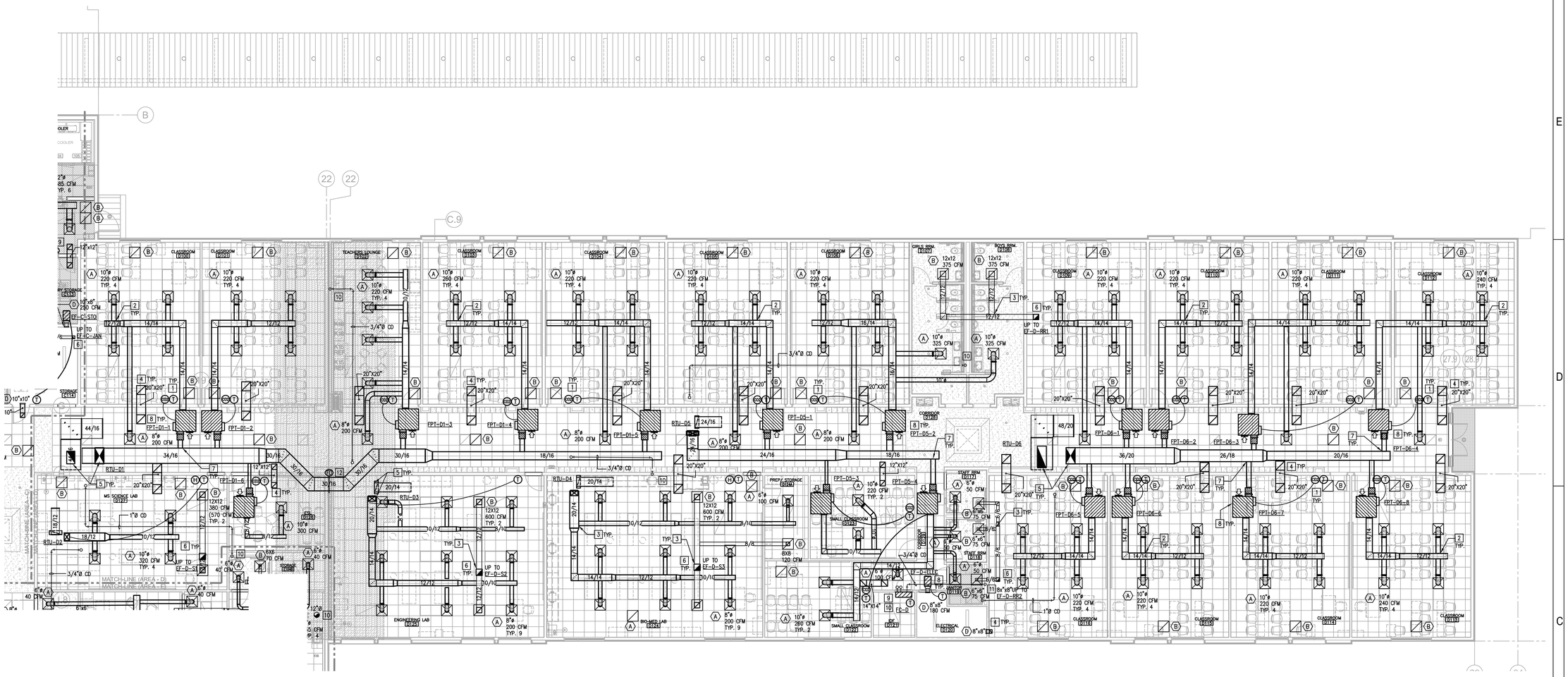
M2.11C



1 MECHANICAL PLAN - AREA D

M2.11D

1/8" = 1'-0"

MECHANICAL KEYED NOTES

1. PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS. PROVIDE WITH LOCKBOX COVER AT ALL PUBLIC SPACES.
2. PROVIDE SPIN-IN FITTING WITH LOCKING QUADRANT BUTTERFLY DAMPER FOR ALL ROUND DUCT CONNECTIONS TO RECTANGULAR DUCT. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS. DETAIL: RE DETAIL 6, 7, 8, 9 / M6.01.
3. PROVIDE RECTANGULAR DUCT BRANCH CONNECTION WITH OPPOSED BLADE DAMPER AND LOCKING QUADRANT, USE YOUNG'S REGULATOR IN CEILING IF DAMPER IS NOT ACCESSIBLE. PARALLEL BLADE DAMPER SHALL BE USED IF BRANCH DUCT HEIGHT IS 9" OR LESS INSIDE. TYPICAL. DETAIL: RE 2, 3, 4, 5 / M6.01.
4. PROVIDE RETURN AIR TRANSFER BOOT / SIDEWALL RETURN AIR TRANSFER BOOT. SIZE AS INDICATED. DETAIL: RE 10, 11 / M6.01.
5. EXTEND SUPPLY AND RETURN MAIN DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF TOP UNIT. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 19 / M6.01.
6. EXTEND EXHAUST DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED EXHAUST FAN. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 24 / M6.01.
7. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0". RE: DETAIL 12 / M6.01.
8. PROVIDE FAN POWERED TERMINAL UNIT AT APPROXIMATE LOCATION SHOWN. SUPPORT UNIT FROM STRUCTURE. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. PROVIDE WITH ACCESS DOOR IF LOCATED OVER GYPSUM CEILINGS. RE: DETAIL 13 / M6.01.
8. PROVIDE IN-LINE FAN AT APPROXIMATE LOCATION SHOWN. SUSPEND FAN FROM STRUCTURE. PROVIDE NECESSARY DUCT TRANSITIONS FROM FAN INLET AND DISCHARGE. FAN SHALL BE INTERLOCKED WITH STAND ALONE THERMOSTAT TO ENERGIZE FAN WHEN SPACE TEMPERATURE EXCEEDS 80F (ADJUSTABLE). RE: DETAIL 9 / M6.02.
9. PROVIDE WALL MOUNTED DUCTLESS FAN COIL UNIT AT APPROXIMATE LOCATION SHOWN. INSTALL UNIT AS HIGH AS POSSIBLE ON WALL. ROUTE REFRIGERANT PIPING FROM WALL MOUNTED DUCTLESS FAN COIL UNIT TO ASSOCIATED AIR COOLED CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. FIELD COORDINATE EXACT ROUTING. CONNECT 3/4" CONDENSATE DRAIN AND EXTEND AS NOTED.
10. ROUTE CONDENSATE DRAIN LINE TO PLUMBING TAILPIECE LOCATED BELOW PLUMBING FIXTURE. COORDINATE EXACT CONNECTION LOCATION WITH PLUMBING.SIZE AS INDICATED ON DRAWING. RE: DETAIL 22, 23 / M6.01.
11. ROUTE CONDENSATE DRAIN LINE DOWN INSIDE WALL PARTITION AND DISCHARGE 1" ABOVE MOP SINK RIM. PROVIDE WITH CHROME PLATED WALL ESCUTCHEON AT WALL PENETRATION. SIZE AS INDICATED ON DRAWING. COORDINATE EXACT DRAIN LOCATION WITH PLUMBING.
12. PROVIDE FIRE DAMPER AT DUCT PENETRATION THRU FIRE RATED WALL. PROVIDE WITH FIRE DAMPER ACCESS DOOR. RE: DETAIL 28, 29 / M6.01.

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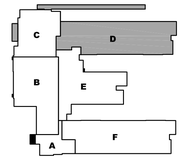

KEYPLAN

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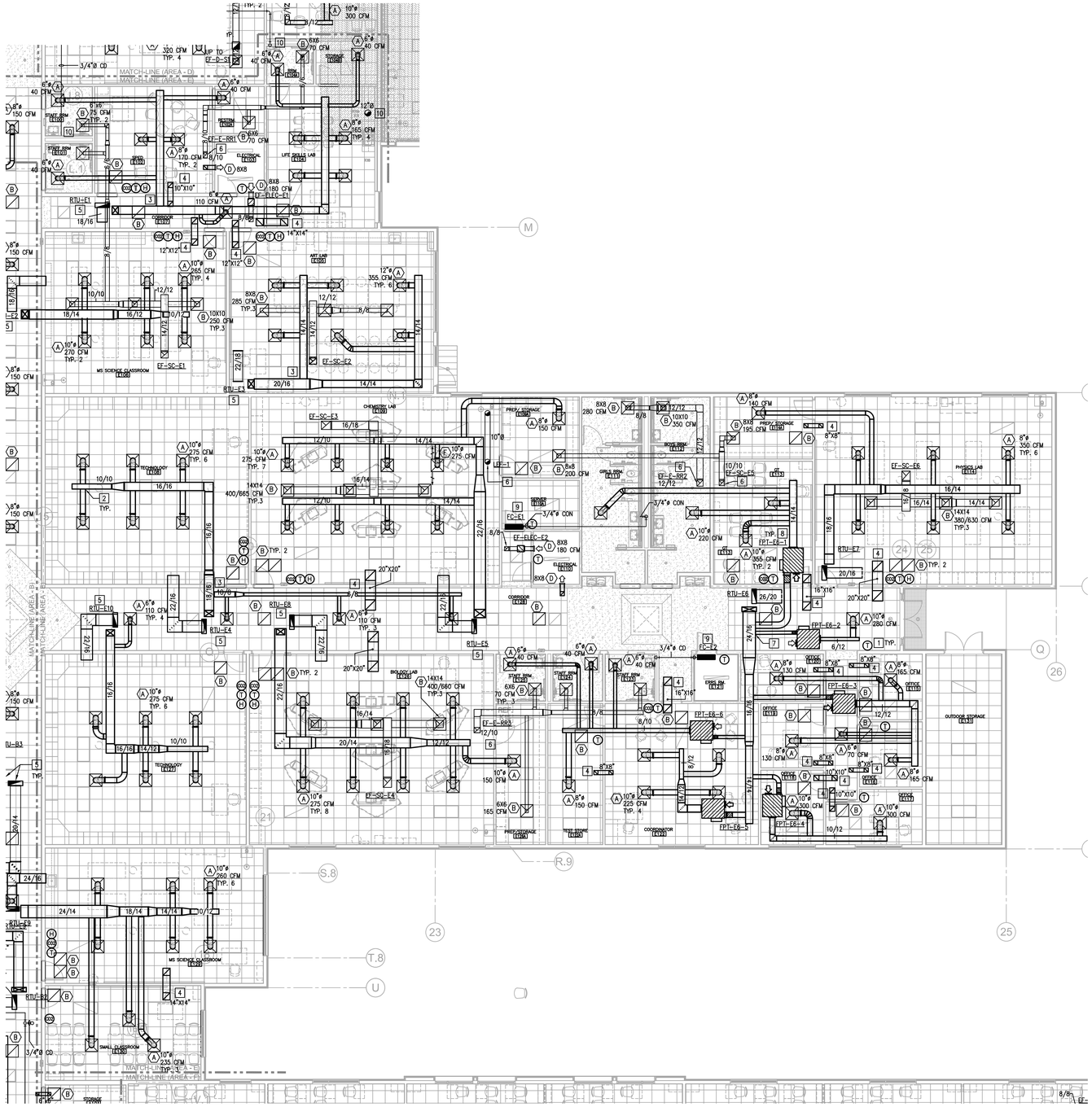
MECHANICAL PLAN - AREA D

M2.11D



1 M2.11E **MECHANICAL PLAN - AREA E**
1/8" = 1'-0"

MECHANICAL KEYED NOTES

1. PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS. PROVIDE WITH LOCKBOX COVER AT ALL PUBLIC SPACES.
2. PROVIDE SPIN-IN FITTING WITH LOCKING QUADRANT BUTTERFLY DAMPER FOR ALL ROUND DUCT CONNECTIONS TO RECTANGULAR DUCT. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS. DETAIL: RE DETAIL 6, 7, 8, 9 / M6.01.
3. PROVIDE RECTANGULAR DUCT BRANCH CONNECTION WITH OPPOSED BLADE DAMPER AND LOCKING QUADRANT, USE YOUNG'S REGULATOR IN CEILING IF DAMPER IS NOT ACCESSIBLE. PARALLEL BLADE DAMPER SHALL BE USED IF BRANCH DUCT HEIGHT IS 9" OR LESS INSIDE. TYPICAL. DETAIL: RE 2, 3, 4, 5 / M6.01.
4. PROVIDE RETURN AIR TRANSFER BOOT / SIDEWALL RETURN AIR TRANSFER BOOT. SIZE AS INDICATED. DETAIL: RE 10, 11 / M6.01.
5. EXTEND SUPPLY AND RETURN MAIN DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF TOP UNIT. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 19 / M6.01.
6. EXTEND EXHAUST DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED EXHAUST FAN. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 24 / M6.01.
7. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0". RE: DETAIL 12 / M6.01.
8. PROVIDE FAN POWERED TERMINAL UNIT AT APPROXIMATE LOCATION SHOWN. SUPPORT UNIT FROM STRUCTURE. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. PROVIDE WITH ACCESS DOOR IF LOCATED OVER GYPSUM CEILINGS. RE: DETAIL 13 / M6.01.
9. PROVIDE WALL MOUNTED DUCTLESS FAN COIL UNIT AT APPROXIMATE LOCATION SHOWN. INSTALL UNIT AS HIGH AS POSSIBLE ON WALL. ROUTE REFRIGERANT PIPING FROM WALL MOUNTED DUCTLESS FAN COIL UNIT TO ASSOCIATED AIR COOLED CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. FIELD COORDINATE EXACT ROUTING. CONNECT 3/4" CONDENSATE DRAIN AND EXTEND TO LAVATORY TAILPIECE. RE: DETAIL 23/M6.01.
10. PROVIDE 12" EXHAUST DUCT FOR RANGE HOOD. CONNECT TO OWNER PROVIDED HOOD AND FAN. TERMINATE AT ROOF WITH ROOF CAP.

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Ryan Miller, State of Texas, Ryan G. Miller, 131159, Licensed Professional Engineer
07/02/2026

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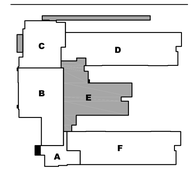
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

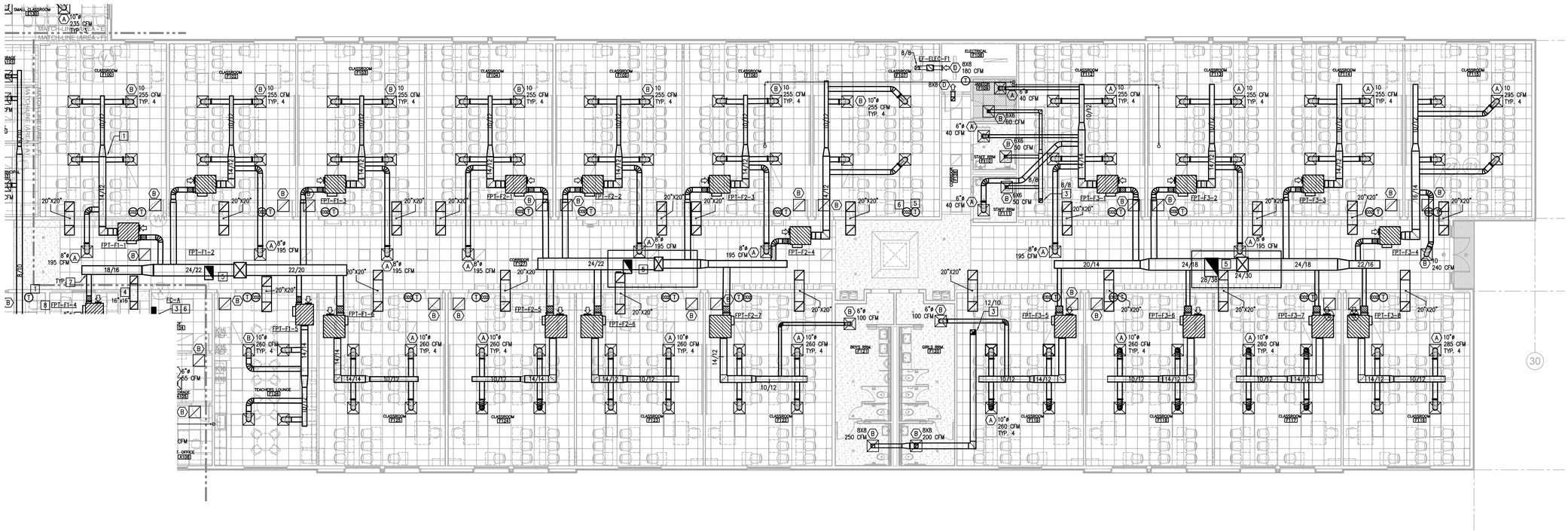
No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

MECHANICAL PLAN - AREA E

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#: 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

M2.11E



1 MECHANICAL PLAN - AREA F

M2.11F

1/8" = 1'-0"

MECHANICAL KEYED NOTES

1. PROVIDE THERMOSTAT AT APPROXIMATE LOCATION SHOWN. THERMOSTAT SHALL BE INSTALLED AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES TO AVOID CONFLICTS. PROVIDE WITH LOCKBOX COVER AT ALL PUBLIC SPACES.
2. PROVIDE SPIN-IN FITTING WITH LOCKING QUADRANT BUTTERFLY DAMPER FOR ALL ROUND DUCT CONNECTIONS TO RECTANGULAR DUCT. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS. DETAIL: RE DETAIL 6, 7, 8, 9 / M6.01.
3. PROVIDE RECTANGULAR DUCT BRANCH CONNECTION WITH OPPOSED BLADE DAMPER AND LOCKING QUADRANT, USE YOUNG'S REGULATOR IN CEILING IF DAMPER IS NOT ACCESSIBLE. PARALLEL BLADE DAMPER SHALL BE USED IF BRANCH DUCT HEIGHT IS 9" OR LESS INSIDE. TYPICAL. DETAIL: RE 2, 3, 4, 5 / M6.01.
4. PROVIDE RETURN AIR TRANSFER BOOT / SIDEWALL RETURN AIR TRANSFER BOOT. SIZE AS INDICATED. DETAIL: RE 10, 11 / M6.01.
5. EXTEND SUPPLY AND RETURN MAIN DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED ROOF TOP UNIT. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 19 / M6.01.
6. EXTEND EXHAUST DUCTWORK THRU THE ROOF AND CONNECT TO ASSOCIATED EXHAUST FAN. TRANSITION DUCTWORK AS REQUIRED. PROVIDE WITH COMMERCIAL GRADE FLEXIBLE CONNECTOR. FIELD COORDINATE FINAL LOCATION WITH ROOF STRUCTURE. RE: DETAIL 24 / M6.01.
7. PROVIDE CONICAL SPIN-IN CONNECTOR FOR ALL ROUND DUCT CONNECTIONS TO VAV TERMINAL UNIT INLETS. SHEET METAL INLET DUCTS TO VAV TERMINAL UNITS SHALL BE SAME SIZE AS THE BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE VAV BOX IS MORE THAN 6'-0". RE: DETAIL 12 / M6.01.
8. PROVIDE FAN POWERED TERMINAL UNIT AT APPROXIMATE LOCATION SHOWN. SUPPORT UNIT FROM STRUCTURE. PROVIDE ALL CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE WITH ADJACENT PIPING, WALLS, CONDUIT, STRUCTURAL MEMBERS, ETC. PROVIDE WITH ACCESS DOOR IF LOCATED OVER GYPSUM CEILINGS. RE: DETAIL 13 / M6.01.
9. 3/4" CONDENSATE DRAIN PIPE TO TERMINATE UNDER LAVATORY. RE: M2.11A FOR CONTINUATION.

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DBR Project#: 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

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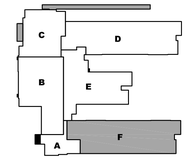

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

MECHANICAL PLAN - AREA F

M2.11F

AIR DEVICE SCHEDULE

MARK	MFR. & MODEL	TYPE	REMARKS
A	TITUS TMS-AA	LOUVERED FACE SUPPLY AIR DIFFUSER	SEE PLAN FOR FACE SIZE. ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING OR HARD CEILING, DEPENDING ON CEILING TYPE. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE; SIZE NECK ACCORDING TO DRAWING.
B	TITUS PAR-AA	PERFORATED FACE RETURN AIR GRILLE	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING OR HARD CEILING, DEPENDING ON CEILING TYPE. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE, SIZE NECK ACCORDING TO DRAWING. PROVIDE 22"x22" NECK UNLESS OTHERWISE NOTED. PROVIDE O.B.D. FOR DUCTED EXHAUST.
C	TITUS 300FL	SIDEWALL SUPPLY AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D.
D	TITUS 350FL	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.
E	TITUS ML-39	LINEAR SLOT DIFFUSER	4 FOOT WIDTH .3 SLOTS, 1" WIDE, CONCEALED MOUNTING FLANGE BORDER AND MPI-39 PLENUM, NECK SIZE AS INDICATED ON PLAN.
F	TITUS TRITEC-AL	LAMINAR FLOW PERFORATED DIFFUSER	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR LAY-IN CEILING, SIZE NECK ACCORDING TO DRAWING.

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
2. REFER TO MECHANICAL FLOOR PLAN FOR NECK SIZES.

DUCTLESS SPLIT SYSTEM SCHEDULE

	MARK	FC-D	FC-E1	FC-E2	FC-A
INDOOR UNIT	SERVES	IT ROOM	IT ROOM	ERRS	IT ROOM
	TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
	AIRFLOW (CFM)	915	915	915	915
	TOTAL / SENSIBLE COOLING (MBH)	33.2	33.2	33.2	33.2
	VOLTS/PHASE/HERTZ	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
	MCA / MOCP	POWERED BY OUTDOOR	POWERED BY OUTDOOR	POWERED BY OUTDOOR	POWERED BY OUTDOOR
	MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
	MODEL NUMBER	FTX36WVJU9	FTX36WVJU9	FTX36WVJU9	FTX36WVJU9
OUTDOOR UNIT	MARK	CU-D	CU-E1	CU-E2	CU-A
	VOLTS/PHASE/HERTZ	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
	MCA	16.6	16.6	16.6	16.6
	MOCP	20	20	20	20
	MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
	MODEL NUMBER	RK36WMVJU9	RK36WMVJU9	RK36WMVJU9	RK36WMVJU9
SEER2 / EER2		15.9 / 9.10	15.9 / 9.10	15.9 / 9.10	15.9 / 9.10
NOTES:		1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

NOTES:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
2. PROVIDE WALL MOUNTED THERMOSTAT. PROVIDE WITH INTERFACE FOR ECMS INTEGRATION.
3. PROVIDE CONDENSATE PUMP. PROVIDE WITH CONDENSATE OVERFLOW SENSOR.
4. PROVIDE WITH CONDENSER COIL HAIL GUARD.
5. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.

FAN POWERED TERMINAL UNIT SCHEDULE

MARK	PRIMARY AIR CFM		HEATING CFM	REHEAT	INLET SIZE	VOLTS/ PHASE/ HZ	ECM HP	MFR	MODEL NO.
	MAX.	MIN.		KW					
FPT-A1-1	670	270	470	4.0	8"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-A1-2	860	340	605	4.5	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-A1-3	560	220	395	3.0	8"Ø	277/1/60	1/3	TITUS	DTFS-B
FPT-A1-4	645	260	455	3.5	8"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D1-1	1,080	430	760	6.0	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D1-2	880	350	620	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D1-3	1,080	430	760	6.0	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D1-4	880	350	620	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D1-5	1,080	430	760	6.0	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D1-6	300	120	210	2.0	6"Ø	277/1/60	1/3	TITUS	DTFS-B
FPT-D5-1	1,080	430	760	6.0	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D5-2	1,730	690	1215	9.5	14"Ø	480/3/60	3/4	TITUS	DTFS-E
FPT-D5-3	440	180	310	2.5	8"Ø	277/1/60	1/3	TITUS	DTFS-B
FPT-D5-4	720	290	505	4.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D6-1	1,080	430	760	6.0	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D6-2	880	350	620	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D6-3	1,080	430	760	6.0	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D6-4	1,160	460	815	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-D6-5	880	350	620	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D6-6	880	350	620	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D6-7	880	350	620	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-D6-8	960	380	675	5.5	10"Ø	480/3/60	1/3	TITUS	DTFS-C
FPT-E6-1	1,150	460	805	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-E6-2	280	110	200	1.5	6"Ø	277/1/60	1/3	TITUS	DTFS-B
FPT-E6-3	660	260	465	3.5	8"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-E6-4	600	240	420	3.5	8"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-E6-5	900	360	630	5.0	10"Ø	277/1/60	1/3	TITUS	DTFS-C
FPT-E6-6	270	110	190	1.5	6"Ø	277/1/60	1/3	TITUS	DTFS-B
FPT-F1-1	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F1-2	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F1-3	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F1-4	1,980	790	1390	10.5	14"Ø	480/3/60	3/4	TITUS	DTFS-E
FPT-F1-5	1,040	420	730	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F1-6	1,040	420	730	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-1	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-2	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-3	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-4	1,020	410	715	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-5	1,040	420	730	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-6	1,040	420	730	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F2-7	1,140	460	800	6.0	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-1	1,335	530	935	7.0	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-2	1,215	490	855	6.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-3	1,020	410	715	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-4	1,420	570	995	7.5	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-5	1,140	460	800	6.0	12"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-6	1,040	420	730	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-7	1,040	420	730	5.5	10"Ø	480/3/60	1/2	TITUS	DTFS-D
FPT-F3-8	1,140	460	800	6.0	12"Ø	480/3/60	1/2	TITUS	DTFS-D

NOTES:
1. PROVIDE AEROCROSS MULTI-POINT CENTER AVERAGING VELOCITY SENSOR IN PRIMARY AIR INLET.
2. PROVIDE TERMINAL UNIT CASING WITH 1" INTERNALLY LINED FIBERGLASS FREE INSULATION.
3. PROVIDE TERMINAL UNIT WITH INTEGRAL DISCONNECT SWITCH.
4. PROVIDE ELECTRIC REHEAT COIL WITH 0-10V SCR MODULATING CAPACITY CONTROL.
5. PROVIDE WITH ECM MOTOR.
6. MINIMUM HEATING LEAVING AIR TEMPERATURE IS 85°F.
7. SUPPLY VOLTAGE FOR ALL TERMINAL UNIT FAN MOTOR SHALL BE 277 V / 1 PH / 60 HZ. INDIVIDUAL VOLTAGE FOR EACH TERMINAL IN SCHEDULE IS POWER REQUIREMENT FOR ELECTRIC HEATER.

ELECTRIC UNIT HEATER SCHEDULE

MARK	EUH-1
SERVES	FIRE RISER ROOM
CFM	310
KW	3
VOLTS/PHASE/HERTZ	208/1/60
MANUFACTURER	REZNOR
MODEL NO.	EUH-3
NOTES	1

NOTES:
1. SHALL INCLUDE BUILT-IN THERMOSTAT, FUSED CONTROL CIRCUIT, MANUAL RESET HIGH LIMIT, "FAN ONLY" SWITCH, AND WALL BRACKET.

KITCHEN EXHAUST FAN SCHEDULE

MARK	KEF-1
SERVES	KITCHEN
TYPE/DRIVE	DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN
INTERLOCK	KITCHEN HOOD
CFM (MIN./MAX.)	2,310
EXT. S.P. (IN. W.G.)	1.00
HORSEPOWER	1 HP
FAN SPEED (RPM)	1,257
WEIGHT (LBS)	200 LBS
VOLTS/PHASE/HERTZ	115 / 1 / 60
MANUFACTURER	GREENHECK
MODEL NUMBER	CUE-160-VG
NOTES	1,2,3, 4, 5

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE WITH PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
3. FAN SHALL BE LISTED TO COMPLY WITH UL-762 POWER VENTILATORS FOR RESTAURANT EXHAUST APPLIANCES.
4. PROVIDE WITH GREASE BOX WITH DRAIN CONNECTION.
5. PROVIDE WITH VENTED ROOF CURB EXTENSION , HINGE KIT, AND HEAT BAFFLE.

FAN SCHEDULE

	AREA D						AREA C			AREA B			AREA E												AREA F		
MARK	EF-D-ELEC	EF-D-RR1	EF-D-RR2	EF-D-S1	EF-D-S2	EF-D-S3	EF-C-RR1	EF-C-STO	EF-C-JAN	EF-PRINTER	EF-B-LK	EF-B-S1	EF-E-RR1	EF-E-RR2	EF-E-RR3	EF-ELEC-E1	EF-ELEC-E2	EF-SC-E1	EF-SC-E2	EF-SC-E3	EF-SC-E4	EF-SC-E5	EF-SC-E6	LEF-1	EF-F-RR1	EF-F-RR2	EF-ELEC-F1
SERVES	ELEC ROOM	RESTROOMS	RESTROOMS	SCIENCE CLASSROOM	SCIENCE CLASSROOM	SCIENCE CLASSROOM	RESTROOMS	STO / ELEC ROOM	JANITOR CLOSET	PRINTER	LOCKER ROOMS	SCIENCE CLASSROOM	RESTROOMS	RESTROOMS	RESTROOMS	ELEC ROOM	ELEC ROOM	SCIENCE CLASSROOMS	SCIENCE CLASSROOMS	CHEMISTRY LAB	BIOLOGY LAB	PREP / STORAGE ROOMS	PHYSICS LAB	CHEMISTRY LAB	RESTROOMS	RESTROOMS	ELEC ROOM
TYPE/DRIVE	INLINE / DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	INLINE / DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	INLINE / DIRECT	INLINE / DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	CENT/DIRECT	INLINE / DIRECT
INTERLOCK	THERMOSTAT	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	THERMOSTAT	THERMOSTAT	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	ASSOC. RTU	EMCS	ASSOC. RTU	HOOD SWITCH	ASSOC. RTU	EMCS	THERMOSTAT
CFM (MIN./MAX.)	180	750	225	760 / 1140	1,200	1,320	750	240	75	500	540	700 / 1050	140	1,025	210	180	180	750	855	1200 / 1995	1200 / 1980	395	1140 / 1890	710	450	160	180
EXT. S.P. (IN. W.G.)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.30	0.40	0.40	0.40	0.25	0.50	0.33	0.40	0.40	0.50	0.50	0.50	0.50	0.50	0.50	1.00	0.30	0.30	0.40
HORSEPOWER (WATTS	1/10	1/4	1/10	1/4	1/4	1/4	1/6	1/10	1/15	1/6	1/6	1/4	1/15	1/4	1/15	1/10	1/10	1/4	1/4	3/4	3/4	1/6	3/4	1	1/15	1/10	1/10
FAN SPEED (RPM)	1,473	1,243	1,485	1,085	1,085	1,085	1,491	1,422	1,582	1,437	1,437	1,085	1,246	1,158	1,516	1,473	1,473	1,059	1,102	979 / 1283	979 / 1277	1,469	964 / 1237	2,655	1,431	1,177	1,473
SONES (MAX.)	6.0	6.1	7.1	8.2	8.2	8.2	8.4	6.3	3.6	7.8	7.8	8.2	2.5	8.2	4.2	6.0	6.0	7.0	7.5	7.1 / 11.9	7.1 / 11.8	6.8	6.9 / 11.0	16.1	3.6	4.9	6.0
VOLTS/PHASE/HERTZ	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60	480 / 3 / 60	115 / 1 / 60	115 / 1 / 60	115 / 1 / 60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	SQ-80-VG	G-100-VG	G-080-VG	G-130-VG	G-130-VG	G-130-VG	G-095-VG	SQ-90-VG	G-060-VG	G-095-VG	G-095-VG	G-130-VG	G-070-VG	G-120-VG	G-070-VG	SQ-80-VG	SQ-80-VG	G-120-VG	G-120-VG	G-140-VG	G-140-VG	G-090-VG	G-140-VG	VK-H-10-6	G-070-VG	G-080-VG	SQ-80-VG
NOTES	1, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4, 9	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4, 9	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 4, 5, 6	1, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	1, 2, 4, 7, 9	1, 2, 4, 7, 9	1, 2, 4, 7	1, 2, 4, 7, 9	1, 8, 10	1, 2, 3, 4	1, 2, 3, 4	1, 4, 5, 6

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE WITH 12" PREFABRICATED ROOF CURB, WEATHERPROOF DISCONNECT SWITCH, AND ALUMINUM BIRD SCREEN.
3. PROVIDE WITH GRAVITY DAMPER. DAMPER SHALL BE INSTALLED IN ACCESSIBLE LOCATION.
4. PROVIDE WITH DIRECT DRIVE, ELECTRONICALLY COMMUTATED FAN MOTOR (ECM).
5. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. PROVIDE WITH VIBRATION ISOLATORS AND BACKDRAFT DAMPER.
6. FAN SHALL BE THERMOSTATICALLY CONTROLLED. FAN SHALL ENERGIZE WHEN SPACE TEMPERATURE REACHES 85°F (ADJ.) OR ABOVE.
7. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH FAN OPERATION SUCH THAT DAMPER SHALL OPEN WHEN FAN IS ENERGIZED AND SHUT WHEN FAN IS DE-ENERGIZED. DAMPER SHALL BE INSTALLED IN DUCTWORK BELOW ROOF DECK, NOT IN DAMPER TRAY.
8. FAN SHALL BE HARDWIRE INTERLOCKED WITH ASSOCIATED (HOOD/WALL) SWITCH.
9. FAN SHALL RUN AT LOW SPEED DURING NORMAL OPERATION AND SHALL BE INTERLOCKED WITH EMCS. FAN SHALL RUN AT HIGH SPEED WHEN EMERGENCY PURGE SEQUENCE IS ACTIVATED. *INDICATES PERFORMACE VALUE WHEN FAN IS OPERATING IN PURGE MODE.
10. PROVIDE MOTOR STARTER DISCONNECT SWITCH, EPOXY COATED FAN CASING AND BLOWER WHEELS, BACKWARD INCLINED BLOWER WHEELS, AND DRAIN AT BOTTOM OF FAN HOUSING.

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07/02/2026

HARMONY PUBLIC SCHOOLS

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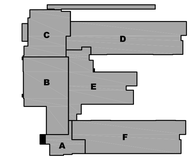

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

MECHANICAL SCHEDULES

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TBPE Firm Registration No. 2234
DBR Project# 254026.000
RM | IL/CQ | MK/AB | CG/CR | ---

M5.01

PACKAGED DX ROOF TOP UNIT SCHEDULE

MARK	RTU-A	RTU-GYM	RTU-B1	RTU-B2	RTU-B3	RTU-CAFETERIA	RTU-KITCHEN	RTU-D1	RTU-D2	RTU-D3	RTU-D4	RTU-D5	RTU-D6
SERVES	AREA A	GYMNASIUM	AREA B	AREA B	AREA B	AREA C / CAFETERIA	AREA C / KITCHEN	AREA D	AREA D	AREA D	AREA D	AREA D	AREA D
UNIT TYPE	MULTIZONE VAV	SZ VAV	SZ VAV	SZ VAV	SZ VAV	SZ VAV	SZ VAV	MULTIZONE VAV	SZ VAV	SZ VAV	SZ VAV	MULTIZONE VAV	MULTIZONE VAV
DUCT CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
DESIGN SUPPLY AIR FLOW RATE (CFM)	3,500	10,000	1,810	1,250	1,450	11,200	2,720	5,500	1,280	1,800	1,900	4,000	8,700
MINIMUM SUPPLY AIR FLOW RATE (CFM)	1,400	--	--	--	--	4,720	--	2,620	--	--	--	1,760	3,740
DESIGN OUTDOOR AIR FLOW RATE (CFM)	820	6,200	300	410	220	4,720	260	2,620	480	670	670	1,760	3,740
MINIMUM OUTDOOR AIR FLOW RATE (CFM)	410	3,100	--	--	--	2,360	--	1,310	--	--	--	880	1,870
IEER (SEER2) / EER	20 / 11.6	11.2 / 17.6	20 / 10.7	(17.8) / 12.5	(17.8) / 12.5	17.8 / 11	21 / 11.1	21 / 10.9	21 / 11.1	21 / 11.1	21 / 11.1	20.4 / 11	16.7 / 10.4
EXT. S.P. (IN. W.G.)	1.50	1.50	1.50	1.50	1.50	1.50	1.20	1.50	1.50	1.50	1.50	1.50	1.50
FAN MOTOR HORSEPOWER (EXHASUT / SUPPLY)	1 / 4.4	3.8 HP / 6.58 BHP	1 / 2.1	1 / 3	1 / 3	4.7 / 4.4	1 / 3	1 / 5	1 / 3	1 / 3	1 / 3	1 / 5	2 / 5.8
FAN TYPE	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI
FAN DRIVE	DIRECT DRIVE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE	DIRECT DRIVE
COOLING DATA													
AMBIENT AIR (°F)	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
TOTAL COOLING CAPACITY (MBH)	113.6	562.7	55.2	47.1	41.2	473.2	66.5	254.4	65.1	62.9	61.5	162.4	376.9
TOTAL SENSIBLE CAPACITY (MBH)	79.4	335.1	41.0	31.9	31.5	302.8	56.3	163.2	45.9	43.5	43.4	104.4	239.4
EAT DB/WB (°F)	79.6 / 66.6	88.9 / 73.3	79.9 / 66.7	83.8 / 69.3	79.5 / 66.2	86.2 / 71.2	78.0 / 64.4	83.9 / 69.6	82.1 / 70.9	82.9 / 68.5	82.6 / 68.3	83.0 / 69.2	84.6 / 70.1
LAT DB/WB (°F)	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54
HEATING DATA													
HEATING CAPACITY (KW)	-	150 KW	18 KW	18 KW	18 KW	150 KW	30 KW	-	18 KW	30 KW	30 KW	-	-
EAT DB (°F)	-	41.6	62.5	54.0	62.0	43.8	65.5	-	55.5	50.9	53.0	-	-
LAT DB (°F)	-	85.0	95.0	95.0	95.0	85.0	95.0	-	95.0	95.0	95.0	-	-
ELECTRICAL DATA													
VOLTS/PHASE/HERTZ	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60
MCA	29.8	218.5	31.4	32.2	32.2	237.7	50.2	59.6	32.2	50.2	50.2	43.6	97.0
MOCP	45.0	225.0	35.0	35.0	35.0	250.0	60.0	80.0	35.0	60.0	60.0	60.0	125.0
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NO.	DPSC10B	DPSA045	DPSC06B	DPSC05B	DPSC05B	DPSA045	DPSC06B	DPSC25B	DPSC06B	DPSC06B	DPSC06B	DPSC16B	DPSA040
OPERATING WEIGHT (LBS)	2,086	13,042	1,110	1,114	1,114	11,804	1,109	3,718	1,116	1,116	1,109	3,448	7,776
NOTES	1 - 15	1 - 16	1 - 14, 16	1 - 13, 16	1 - 13, 16	1 - 16	1 - 13, 16	1 - 15	1 - 13, 16	1 - 13, 16	1 - 13, 16	1 - 15	1 - 15

MARK	RTU-E1	RTU-E2	RTU-E3	RTU-E4	RTU-E5	RTU-E6	RTU-E7	RTU-E8	RTU-E9	RTU-E10	RTU-F1	RTU-F2	RTU-F3
SERVES	AREA E	AREA E	AREA E	AREA E	AREA E	AREA E	AREA E	AREA E	AREA E	AREA E	AREA F	AREA F	AREA F
UNIT TYPE	SZ VAV	SZ VAV	SZ VAV	SZ VAV	SZ VAV	MULTIZONE VAV	SZ VAV	SZ VAV	SZ VAV	SZ VAV	MULTIZONE VAV	MULTIZONE VAV	MULTIZONE VAV
DUCT CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
DESIGN SUPPLY AIR FLOW RATE (CFM)	1,310	1,600	1,860	1,980	2,350	3,800	2,240	2,350	2,265	1,760	6,000	7,500	8,600
MINIMUM SUPPLY AIR FLOW RATE (CFM)	620	640	745	795	940	1,520	900	940	910	705	2,400	3,340	3,800
DESIGN OUTDOOR AIR FLOW RATE (CFM)	620	380	620	585	500	760	510	500	785	585	2,400	3,340	3,800
MINIMUM OUTDOOR AIR FLOW RATE (CFM)	310	190	310	295	250	380	255	250	395	295	1,200	1,670	1,900
IEER (SEER2)	21 / 11.2	21 / 11.1	20.3 / 13.2	20.3 / 13.2	20.3 / 13.2	19.4 / 12	20.3 / 13.2	20.3 / 13.2	19.8 / 11.5	20.3 / 13.2	21 / 10.9	16.9 / 10.2	16.7 / 10.4
EXT. S.P. (IN. W.G.)	1.50	1.20	1.20	1.50	1.20	1.50	1.50	1.20	1.20	1.20	1.50	1.50	1.50
FAN MOTOR HORSEPOWER	1 / 1.7	1 / 1.7	1 / 1.7	1 / 1.7	1 / 3	1 / 4.6	1 / 3	1 / 3	1 / 3	1 / 1.7	1 / 5	1 / 7.5	2 / 5.8
FAN TYPE	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI	SWSI
FAN DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE	DIRECT DRIVE
COOLING DATA													
AMBIENT AIR (°F)	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
TOTAL COOLING CAPACITY (MBH)	65.7	60.4	86.5	81.1	91.4	135.5	89.4	91.4	98.5	75.2	257.6	336.4	382.9
TOTAL SENSIBLE CAPACITY (MBH)	43.5	44.0	53.8	57.2	62.5	100.8	60.8	62.5	68.1	52.4	167.2	214.4	243.8
EAT DB/WB (°F)	85.7 / 69.7	80.4 / 66.3	81.7 / 68.7	81.7 / 67.2	79.6 / 67.2	79.5 / 65.7	80.1 / 66.9	79.6 / 67.2	82.8 / 67.9	82.5 / 67.7	83.1 / 69.1	84.1 / 69.8	84.4 / 69.9
LAT DB/WB (°F)	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54	55 / 54
HEATING DATA													
HEATING CAPACITY (KW)	18 KW	18 KW	18 KW	18 KW	36 KW	-	18 KW	36 KW	36 KW	18 KW	-	-	-
EAT DB (°F)	49.3	59.6	55.4	57.1	60.0	-	60.1	60.0	54.9	55.5	-	-	-
LAT DB (°F)	85.0	95.0	85.0	85.0	95.0	-	85.0	95.0	85.0	85.0	-	-	-
ELECTRICAL DATA													
VOLTS/PHASE/HERTZ	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60
MCA	34.2	32.2	34.2	34.2	59.7	38.1	35.5	59.7	62.5	34.2	59.6	73.8	91.4
MOCP	35.0	35.0	35.0	35.0	60.0	50.0	40.0	60.0	70.0	35.0	80.0	90.0	110.0
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NO.	DPSC06B	DPSC06B	DPSC07B	DPSC07B	DPSC07B	DPSC12B	DPSC07B	DPSC07B	DPSC10B	DPSC07B	DPSC25B	DPSC31B	DPSA040
OPERATING WEIGHT (LBS)	1,116	1,116	1,891	1,891	1,891	1,790	1,891	1,891	1,893	1,891	3,718	3,803	7,670
NOTES	1 - 14, 16	1 - 14, 16	1 - 14, 16	1 - 14, 16	1 - 14, 16	1 - 15	1 - 14, 16	1 - 14, 16	1 - 14, 16	1 - 15	1 - 15	1 - 15	1 - 15

NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE UNIT WITH OUTDOOR AIR INTAKE HOOD WITH MODULATING MOTORIZED DAMPER.
3. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION.
4. PROVIDE FLOAT SWITCH IN PRIMARY DRAIN PAN TO DE-ENERGIZE THE UNIT WHEN PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. PROVIDE UNITS WITH MINIMUM MERV 13 FILTERS.
6. PROVIDE UNIT CONTROLLER BY MANUFACTURER. PROVIDE CONTROLLER WITH BACNET INTERFACE CARD FOR INTEGRATION WITH EMCS.
7. PROVIDE UNIT WITH DUCT MOUNTED SMOKE DETECTORS IN RETURN DUCTWORK FOR ALL UNITS DISCHARGING IN EXCESS OF 2,000 CFM. PROVIDE WITH REMOTE SMOKE DETECTOR TESTER / INDICATOR.
8. PROVIDE UNIT WITH CONDENSER HAIL GUARD AND 14" PREFABRICATED ROOF CURB.
9. PROVIDE UNIT WITH COMPARATIVE ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
10. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH AND POWERED CONVENIENCE OUTLET.
11. PROVIDE WITH VARIABLE CAPACITY SCROLL COMPRESSORS.
12. PROVIDE WITH DOUBLE WALL RIGID POLYURETHANE FOAM PANEL CONSTRUCTION, R-13 INSULATION.
13. PROVIDE UNIT WITH MINIMUM SHORT CIRCUIT CURRENT RATING (SCCR) OF 65,000 AIC.
14. CONTROL CONTRACTOR TO PROVIDE WITH AN EBTRON GOLD SERIES AIR FLOW MEASURING STATION (AFMS) AND AN EXTEND OUTDOOR AIR HOOD FOR USE WITH AFMS FOR DEMAND CONTROL VENTILATION.
15. PROVIDE WITH POWER EXHAUST. PROVIDE OUTDOOR PRESSURE PICKUP PORT AT ROOFTOP UNIT. MECHANICAL CONTRACTOR SHALL PROVIDE INDOOR PRESSURE PICKUP PORT AND TUBING AS REQUIRED FOR BUILDING STATIC PRESURE CONTROL.
16. PROVIDE UNIT WITH HOT GAS REHEAT FOR HUMIDITY CONTROL.

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TBPE Firm Registration No. 2234
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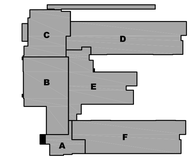

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

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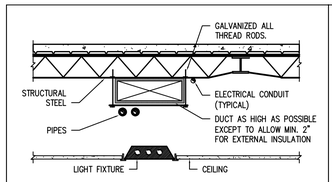
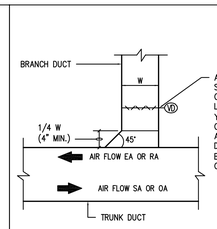
MECHANICAL SCHEDULES

M5.02



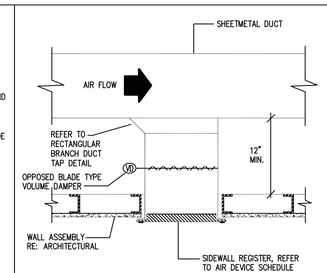
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

1 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE — MAS-01

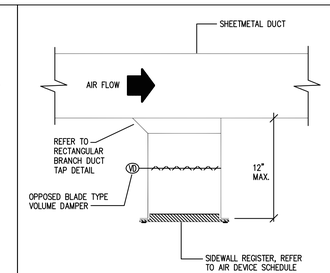


NOTES:
THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

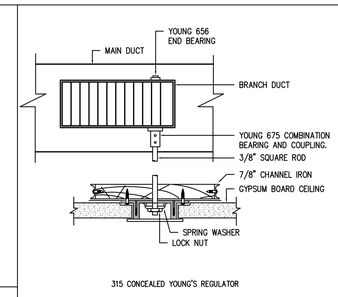
2 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE — MAS-06



3 SIDEWALL SUPPLY REGISTER DETAIL
NOT TO SCALE — MAS-63

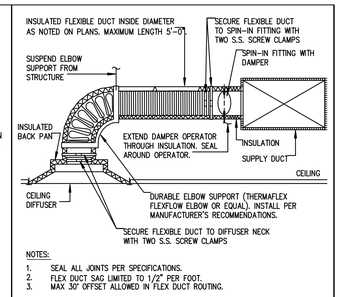


4 EXPOSED SIDEWALL SUPPLY REGISTER DETAIL
NOT TO SCALE — MAS-60



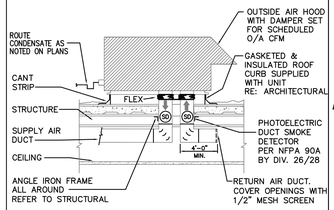
315 CONCEALED YOUNG'S REGULATOR

5 YOUNG'S REGULATOR OPERATOR
NOT TO SCALE — MAS-13



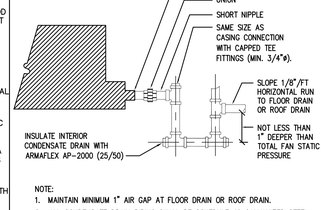
NOTES:
1. SEAL ALL JOINTS PER SPECIFICATIONS.
2. FLEX DUCT SAG LIMITED TO 1/2" PER FOOT.
3. MAX 30° OFFSET ALLOWED IN FLEX DUCT ROUTING.

6 CEILING DIFFUSER CONNECTION
*NOT TO SCALE



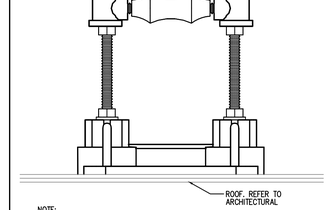
NOTES:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'–0" AND MAXIMUM 6'–0"
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS.
3. ALL JOINTS SHALL BE SEALED WITH MASTIC AND FIBER CLOTH PER SPECIFICATIONS.

7 SPIN-IN DETAIL
NOT TO SCALE — MAS-09



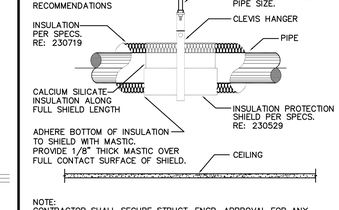
NOTES:
1. MOUNT OPERATOR CRANK AND CABLE PLATFORM ON TOP OF EXTERNAL INSULATION AT DAMPER.

8 REMOTE SPIN-IN DAMPER OPERATOR
NOT TO SCALE — MAS-11

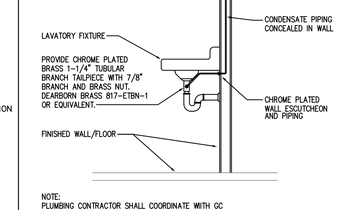


YOUNG'S #270–896C BOWDEN CABLE CONTROL KIT ILLUSTRATED

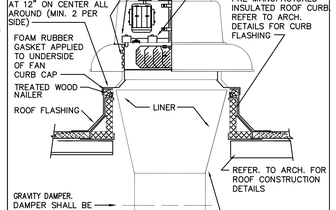
9 REMOTE DAMPER OPERATOR
NOT TO SCALE — MAS-12



10 RETURN AIR BOOT THRU WALL
NOT TO SCALE — MAAR4.DWG



11 SIDEWALL REGISTER RETURN AIR BOOT
NOT TO SCALE — MAS-210



NOTES:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'–0" AND MAXIMUM 6'–0".
2. TYPICAL OF ROUND DUCT CONNECTIONS TO VAV BOXES FROM RECTANGULAR MAIN DUCTS.
3. ALL JOINTS SHALL BE SEALED WITH MASTIC AND FIBER CLOTH PER SPECIFICATIONS.

12 CONICAL SPIN-IN DETAIL
NOT TO SCALE — MAS-210

13 SERIES FAN POWERED TERMINAL UNIT
NOT TO SCALE — MEQ–04

NOTE: 1. PROVIDE CLEARANCE AROUND UNIT FOR AIRFLOW AND SERVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

14 CONDENSING UNIT ROOF MOUNTED
NOT TO SCALE — MECU101.DWG

NOTE:
1. COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT.
3. PROVIDE FILTER DRIER ON ALL SYSTEMS.
4. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

15 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE — MPRE100.DWG

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION AND FLASHING DETAILS.

16 PIPING ROOF PENETRATION
NOT TO SCALE — MPPE200.DWG

17 ROOF MTD. REFR. PIPE SUPPORT
NOT TO SCALE — MPPE201.DWG

NOTE: PROVIDE SUPPORTS AT 3'–0" ON CENTER MAX. AND WITHIN 1'–0" OF ALL CHANGES IN PIPE DIRECTION.

18 REFRIGERANT PIPE HANGER
NOT TO SCALE — MPRE201.DWG

NOTE: ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

19 ROOF TOP UNIT MOUNTING DETAIL
NOT TO SCALE — MERT100.DWG

NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

20 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE — MPCE300.DWG

NOTE:
1. PROVIDE PORTABLE PIPE HANGER MODEL SSB–R OR APPROVED EQUAL.
2. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'–0" ON CENTER.
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

21 DRAIN LINE SUPPORT ON ROOF
NOT TO SCALE — MPHS102.DWG

NOTE:
CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE. CONTRACTOR SHALL CONFORM TO ALL MAXIMUM SPAN DISTANCES PER SPECIFICATIONS FOR HANGER SPACING. RE: 230529

22 PIPE HANGER DETAIL (1–PIPE)
NOT TO SCALE — MPHS102.DWG

NOTE:
PLUMBING CONTRACTOR SHALL COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR ACTUAL LOCATIONS AND QUANTITY OF SINKS OR LAVATORIES THAT WILL RECIEVE CONDENATE.

23 CONDENSATION TERMINATION DETAIL
NOT TO SCALE

24 CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE — MEFA100.DWG

25 IN–LINE EXHAUST FAN DETAIL
NOT TO SCALE

CONTRACTOR SHALL PROVIDE:
- WALL–MOUNTED THERMOSTAT
- LOW VOLTAGE CONTROL TRANSFORMER
- UNIVERSAL WALL AND CEILING–MOUNTED BRACKET
- AUTOMATIC RESET THERMAL CUT–OUT
- ADJUSTABLE DISCHARGE
- REMOTE SUMMER FAN SWITCH

26 ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE

27 FUME HOOD EXHAUST FAN
NOT TO SCALE

NOTES: 1. INSTALL FIRE DAMPERS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

28 HORIZONTAL FIRE DAMPER
NOT TO SCALE

NOTES:
1. MINIMUM 12" X 12" ACCESS PANEL SIZE.
2. DUCT ACCESS DOORS SHALL BE INSTALLED AT EACH FIRE, SMOKE OR FIRE/SMOKE DAMPER. ACCESS DOORS SHALL BE LOCATED SO THAT THE FIRE, SMOKE OR FIRE/SMOKE DAMPER CATCH MAY BE RELEASED W/ THE FIRE DAMPER IN A CLOSED POSITION AND THE FUSIBLE LINK REPLACED. EACH DOOR SHALL BE STENCILED WITH BLACK 3/8" HIGH "FIRE DAMPER ACCESS", "SMOKE DAMPER ACCESS" OR BEFORE FIRE/SMOKE DAMPER ACCESS" AS REQUIRED. DUCT ACCESS DOORS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
3. SEALANTS SHALL BE APPLIED TO THE JOINT AS REQUIRED FOR TIGHTNESS. SEALANTS USED SHOULD BE NON–HARDENING AND HAVE A FLAME SPREAD OF NOT OVER 25 AND A SMOKE DEVELOPED RATING OF NOT OVER 50.

29 FIRE DAMPER ACCESS DOOR
NOT TO SCALE — MAAD103.DWG

30 SLOT DIFFUSER CONNECTION
NOT TO SCALE — MAAD103.DWG

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DBR
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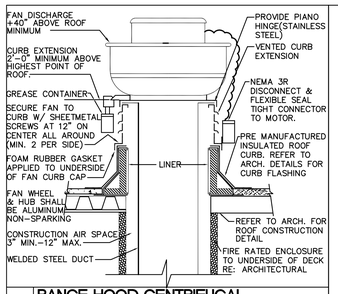
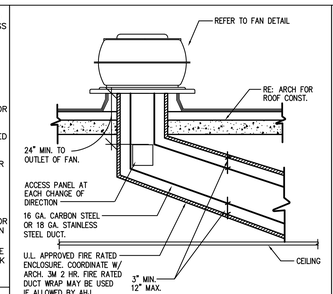
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#: 254026.000

RM	IL/CQ	MK/AB	CG/CR	--

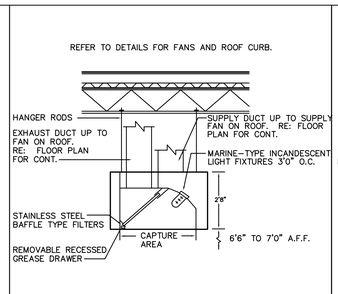
M6.01



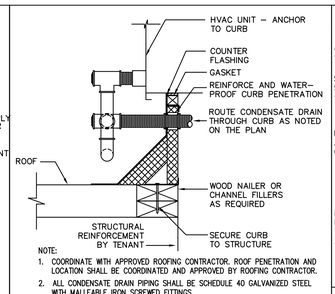
1 **RANGE HOOD CENTRIFUGAL UPBLAST EXHAUST FAN**
NOT TO SCALE



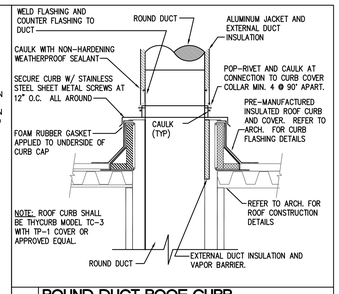
2 **KITCHEN EXHAUST DETAIL**
NOT TO SCALE
MAHD101.DWG



3 **KITCHEN EXHAUST HOOD DETAIL**
NOT TO SCALE
MAHD100.DWG



4 **CONDENSATE DRAIN THRU CURB**
NOT TO SCALE



5 **ROUND DUCT ROOF CURB PENETRATION DETAIL**
NOT TO SCALE
MAS-15

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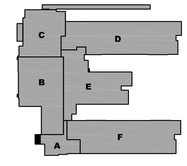

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AI ANALOG INPUT

AO ANALOG OUT PUT

DI/BI DIGITAL/BINARY INPUT

DO/BO DIGITAL/BINARY OUTPUT

MD ON-OFF MOTORIZED DAMPER

MMD MODULATING TYPE MOTORIZED DAMPER

AFMS AIR FLOW MEASURING STATION

MCV CONTROL VALVE MODULATING TYPE

VFD VARIABLE FREQUENCY DRIVE

CSR CURRENT SENSING RELAY

FPZ FREEZESTAT

HSL HIGH STATIC LIMIT

SPT STATIC PRESSURE TRANSMITTER

DPT DIFFERENTIAL PRESSURE TRANSDUCER

FM FLOW METER

FS FLOW SWITCH

DAT DISCHARGE AIR TEMPERATURE SENSOR

S T WALL SENSOR/THERMOSTAT

CO2 CARBON DIOXIDE SENSOR

SP SET POINT

S/A SUPPLY AIR

R/A RETURN AIR

O/A OUTSIDE AIR

HC HEATING COIL

CC COOLING COIL

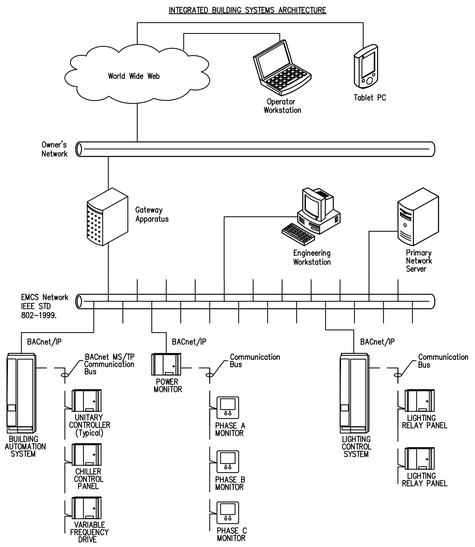
DX DIRECT EXPANSION COOLING COIL

PICV PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE

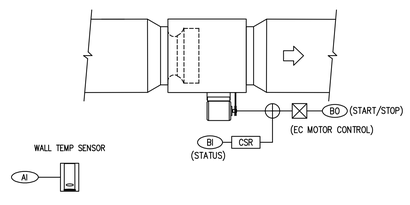
AFC AIRFLOW CROSS

DPS DIFFERENTIAL PRESSURE SWITCH

1 CONTROL SCHEMATIC LEGEND
NOT TO SCALE



2 EMCS Network Architecture - Control Schematic
NOT TO SCALE



System Operation - When system start-up has been initiated, the following sequences shall be implemented:
The exhaust fan shall energize when the space temperature exceeds the active Space Temperature Setpoint.

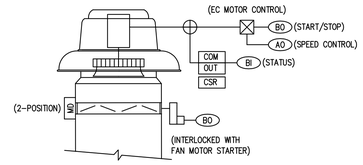
System Setpoints - The setpoints for the system shall be set as follows:
The Space Temperature Setpoint shall be set initially at 85 °F (adjustable).

System Alarms - The EMCS shall generate an alarm as follows:
If the current sensor relay, CSR, proves current but the fan status does not prove on.

4 Exhaust Fan Electrical Room - Control Schematic + Sequence of Operations
NOT TO SCALE

Outdoor Air Conditions
The sensors shall be mounted in an area on the north side of the building where the representative temperature and humidity can be monitored, both shall have sun shields. Based on the outdoor air temperature and humidity the EMCS shall calculate the outdoor air enthalpy, wet bulb and dew point temperatures. These outdoor air conditions shall be broadcast as global data points for use by other control programs. These shall be displayed on all major air and water systems graphics.

3 MISCELLANEOUS SYSTEMS
NOT TO SCALE



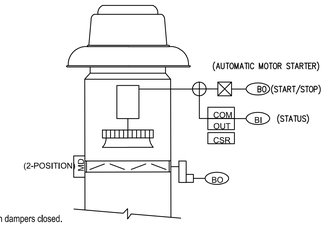
System Operation - When system start-up has been initiated, the following sequences shall be implemented:
The ventilation exhaust fan shall be interlocked with associated Roof top unit serving the classroom operation.
The exhaust fan is to provide general ventilation during normal occupancy at the scheduled minimum air flow rate for all science labs and prep rooms. The exhaust fan shall be provided with a relay to the science lab utility controller such that the exhaust fan will provide the scheduled maximum air flow rate when an emergency purge event is activated from the local utility controller. The exhaust fan shall operate at its maximum scheduled flow rate indefinitely until manually overridden. The exhaust fan shall be provided with an ECM motor that is capable of two-speed operation via a 0-10 VDC control signal.

System Setpoints - The setpoints for the system shall be set as follows:
The design airflow rates shall be set at the values given in the Mechanical Drawings.

System Alarms:
If an emergency push button is activated, a visual and sound alarm shall be activated and shall remain active until manually overridden.

5 Science Lab Exhaust Fan - Control Schematic and Sequence of Operations
NOT TO SCALE

AUTOMATICALLY CONTROLLED EXHAUST FANS (TOILET ROOMS, LOCKER ROOMS, ETC.)



SYSTEM OFF - When the system is off:
Automatically controlled exhaust fans shall be off and their 2-position dampers closed.

SYSTEM START-UP - System start-up shall be initiated:
Exhaust fan shall be interlocked with associated Roof top unit serving the same area, to operate at the same time.

AUTOMATICALLY CONTROLLED EXHAUST FANS: Upon activation of building occupied mode and start-up of the associated Roof top Units, the exhaust fans shall be energize and open their respective two-position motorized dampers. If the Roof top unit are turn off, the automatically controlled building exhaust fans shall be de-energized.

6 Automatically Controlled Exhaust/Supply Fans - Control Schematic and Sequence of Operations
NOT TO SCALE

CONTROL GENERAL NOTE

THE ECMS SYSTEM SHALL INTEGRATE ONLY THE VAV SYSTEMS.

"FOR SZVAV NO ECMS IS TO BE PROVIDED, SEQUENCES ARE SHOWN TO ILLUSTRATE EXPECTATION OF THE EQUIPMENT'S PRE-PROGRAMMED CAPABILITIES."

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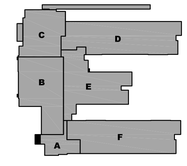

KEYPLAN

Project Number: 24.23
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MECHANICAL CONTROLS

M7.01

CONTROL GENERAL NOTE

THE ECMS SYSTEM SHALL INTEGRATE ONLY THE VAV SYSTEMS.

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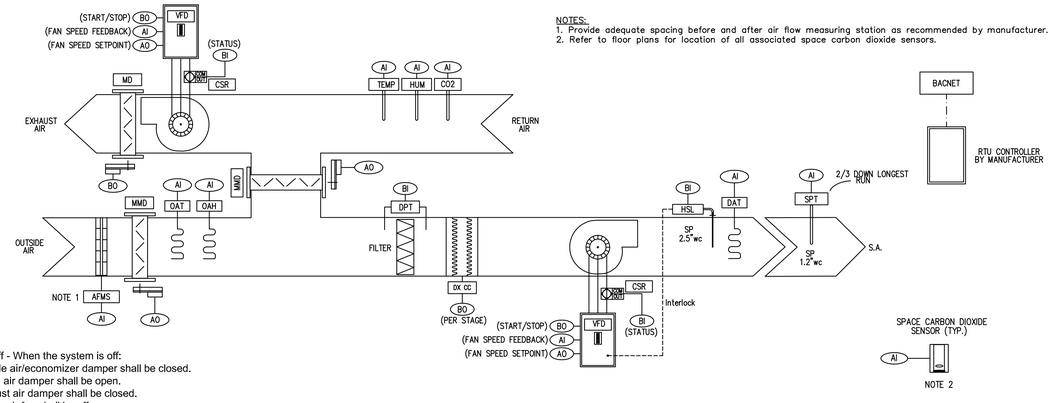


NOTES:
1. Provide adequate spacing before and after air flow measuring station as recommended by manufacturer.
2. Refer to floor plans for location of all associated space carbon dioxide sensors.

System Off - When the system is off:
The outside air/economizer damper shall be closed.
The return air damper shall be open.
The exhaust air damper shall be closed.
The supply air fan shall be off.
The exhaust air fan shall be off.
The compressors shall be disabled.
The control loops shall be disabled.

System Startup - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Pre-Start Mode or Night-Setback Mode.

Pre-Start Mode:
The system shall be enabled automatically by the EMCS based on the Optimal Start/Stop algorithm. Once enabled, the system shall operate per the system Operation section, as detailed below. Operation of the system during Pre-Start Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

Night Setback Mode:
The system shall be enabled automatically by the EMCS based on the cooling demand of 5 (adjustable) or more associated terminal units whose space temperature has exceeded the terminal units Unoccupied Cooling Setpoint. Once enabled, the system shall operate per the System Operation section as detailed below. Operation of the system during Night-Setback Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

System Operation - When system start-up has been initiated:
The variable speed supply fan shall start. Following a confirmation of fan start status, the supply fan speed shall be modulated to maintain the supply air static pressure at setpoint. The speed of the fan shall not be adjusted by more than 20% in any one-minute period. The static pressure setpoint shall be reset via the control algorithm below to optimize the energy usage.
Supply Air Static Pressure Reset - The static pressure setpoint shall be reset up in defined increments at defined intervals until the primary air damper position to all of the associated terminal units have been below the defined value for more than the defined interval. The static pressure setpoint shall be reset down in defined increments at defined intervals until the primary air damper position to at least one (critical zone) of the associated terminal units has been above the defined value for more than the defined interval. The setpoints are detailed in the **System Setpoint** section below.

COOLING MODE: The refrigerant compression shall be staged to maintain the active supply air temperature setpoint. The supply air temperature setpoint shall be reset via the control algorithm below to optimize the energy usage.
Supply Air Temperature Reset - The supply air temperature setpoint shall be reset based on the actual return air temperature, according to the defined reset schedule detailed in the **System Setpoint** section below. If the Demand Control Ventilation sequence is in maximum outdoor air flow mode or Economizer Mode is active, then the supply air temperature reset shall be disabled and the setpoint shall be set to the initial value.

ECONOMIZER MODE: When the outside air enthalpy is less than 28.0 btu/lb, the outside air dry bulb temperature is less than 75°F, and there is a call for cooling, the outside air/economizer and return air dampers shall be modulated such that the unit provides 100% outside air for space cooling, and the refrigerant compression shall be staged to maintain the active supply air temperature setpoint. During Economizer Mode the exhaust air damper shall open and the variable speed exhaust fan shall start. Following confirmation of fan start status, the exhaust fan speed shall be modulated to match the speed of the supply fan with an adjustable 10% offset to maintain positive building pressure. If the outside air enthalpy exceeds 28.0 btu/lb or the outside air temperature exceeds 75°F, or there is no longer a call for cooling, Economizer Mode shall be disabled.

DEMAND CONTROL VENTILATION - During occupied hours, the outside air flow rate shall modulate from its scheduled maximum flow rate to its scheduled minimum flow rate. If the CO2 concentration of the return air CO2 sensor or any of the associated zone space CO2 sensors are at least 100 ppm (adj) less than the active high limit setpoint for a time period of 10 minutes (adj), the outside air/economizer damper and return air damper shall be modulated to maintain the minimum scheduled outside air flow rate. If the CO2 concentration of the return air CO2 sensor or any associated zone space CO2 sensor rises to within 50 ppm (adj) of the active high limit, the outside air/economizer damper and return air damper shall be modulated to maintain the scheduled maximum outside air flow rate.

Outside Air Damper / Return Air Damper Integration with Supply Fan VFD: Dynamic control of the outside air damper and return air damper positions shall be provided through the full range of the supply fan VFD modulation. The outside air and return air motorized dampers shall modulate in sequence to maintain the active outside air flow rate setpoint. The outside air damper shall first modulate open. If the outside air damper has reached the 100% open position and still cannot achieve the active outside air flowrate setpoint, then the return air damper shall begin to modulate closed. The return air damper position shall have a low limit of 50% open (adj) during normal system operation. Damper positions shall not be adjusted by more than 20% (adj) in any one-minute time period.

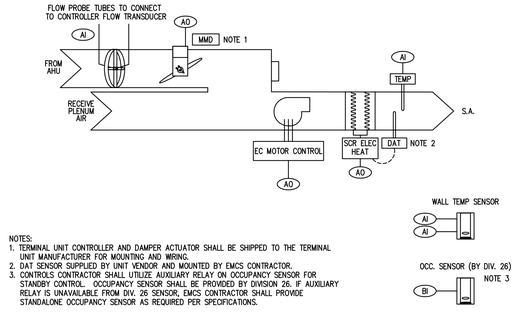
System Setpoints - The setpoints for the system shall be determined as follows:
The maximum speed reference value shall be the VFD speed required to obtain the design supply airflow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be VFD speed required to obtain 50% of the design supply airflow value from the unit schedule on the mechanical drawings but not less than the active outside air flow rate setpoint.
The supply air static pressure setpoint shall be set initially at 1.2 inches w.c. (adj) and shall have reset limits of 0.15 to 1.2 inches w.c. (adj).
The time interval for static pressure reset shall be set at 10 minutes (adj).
The static pressure reset increment shall be set at 0.05 inches w.c. (adj)
The terminal unit primary damper position setpoint shall be 90% open. (adj)
The time interval for terminal unit primary damper position shall be set at 15 minutes. (adj)
The supply air temperature setpoint shall be set initially at 54 °F (adjustable).
The supply air temperature setpoint shall be reset to 54 °F (adj.) when the return air temperature is at 78°F (adj.)
The supply air temperature setpoint shall be reset to 58 °F (adj.) when the return air temperature is at 72°F (adj.)
The minimum outside air flowrate setpoint shall be set at the scheduled minimum flowrate from the unit schedules on the mechanical drawings.
The maximum outside air flowrate setpoint shall be set at the scheduled maximum flowrate from the unit schedule on the mechanical drawings.
The space carbon dioxide high-limit setpoint be set to 1000 ppm (adj).
The air filter pressure differential high-limit shall be set at 1.0 in.wc. (adj).
The supply air static pressure high limit setpoint shall be set initially at 2.5 inches w.c. (adj).

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.
Automatically by supply fan current sensor status failure.
Automatically by the high-static pressure shut down.

System Alarms - The EMCS shall generate an alarm if:
If the supply air temperature is above or below the active setpoint by more than 2°F for 5 minutes (adj).
If any associated space carbon dioxide level exceeds its high-limit for more than 20 minutes (adj) or the space carbon dioxide level exceeds the high-limit by 10% or more.
If the filter differential pressure exceeds the trip point.
If the current sensor relay indicates a supply fan failure status.
If the current sensor relay indicates an exhaust fan failure status.
All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

Notes:
The equipment manufacturer's unit controller shall include controls to perform all equipment functions. The EMCS Contractor shall integrate with the unit controller via BACnet for detailed setpoint adjustments, unit monitoring, alarm inputs, and equipment scheduling.

1 Direct Expansion VAV Rooftop Unit w/ Economizer and DCV - Control Schematic and Sequence of Operations
NOT TO SCALE



NOTES:
1. TERMINAL UNIT CONTROLLER AND DAMPER ACTUATOR SHALL BE SHIPPED TO THE TERMINAL UNIT MANUFACTURER FOR MOUNTING AND WIRING.
2. DAT SENSOR SUPPLIED BY UNIT VENDOR AND MOUNTED BY EMCS CONTRACTOR.
3. CONTROLS CONTRACTOR SHALL UTLIZE AUXILIARY RELAY ON OCCUPANCY SENSOR FOR STANDBY CONTROL. OCCUPANCY SENSOR SHALL BE PROVIDED BY DIVISION 26. IF AUXILIARY RELAY IS UNAVAILABLE FROM DIV. 26 SENSOR, EMCS CONTRACTOR SHALL PROVIDE STANDALONE OCCUPANCY SENSOR AS REQUIRED PER SPECIFICATIONS.

System Off - When the system is off:
The primary air damper shall be closed.
The fan shall be off.
The heating coil shall be disabled.
The control loops shall be disabled.

System Startup - Startup shall be initiated automatically by the EMCS:
In Unoccupied when the corresponding AHU is in UNOCCUPIED MODE.
In Occupied when the corresponding AHU is in PRE-START MODE.
In Unoccupied when the corresponding AHU is in NIGHT-SETBACK MODE.
In Occupied when the corresponding AHU is in OCCUPIED MODE.
In Standby when the corresponding AHU is in OCCUPIED MODE and the zone-mounted Occupancy Sensor times out.

System Operation - When system start-up has been initiated, the following sequences shall be implemented:
The fan shall run at its maximum scheduled primary airflow rate. The primary air damper shall be modulated between the minimum and maximum values to maintain the space temperature within +/- 0.5 °F of the active Cooling Setpoint. When the space temperature falls below the deadband, the primary air damper shall be modulated to the minimum flow value, the fan shall be modulated to maintain its scheduled heating airflow rate, and the electric heat shall be modulated to maintain the space temperature within +/- 0.5 °F of the active Heating Setpoint. The SCR electric heat controller shall be set to maintain a maximum discharge air temperature of 95 °F (adjustable).

System Setpoints - The setpoints for the system shall be set as follows:
The Occupied Heating Setpoint shall be set initially at 70 °F (adjustable).
The Occupied Cooling Setpoint shall be set initially at 74 °F (adjustable).
The Unoccupied Heating Setpoint shall be set initially at 55 °F (adjustable).
The Unoccupied Cooling Setpoint shall be set initially at 85 °F (adjustable).
The Standby Heating Setpoint shall be set initially at 66 °F (adjustable).
The Standby Cooling Setpoint shall be set initially at 78 °F (adjustable).
The maximum heating mode discharge air temperature shall be set at 95 °F (adjustable).
The minimum and maximum primary air flowrates shall set at the values given in the Mechanical Drawings.

System Alarms - The EMCS shall generate an alarm as follows:
If the space temperature during the Occupied Mode is 5 °F above the cooling setpoint or 5 °F below the heating setpoint respectively.

2 Series Fan-Powered Terminal Unit with Modulating Electric Heat - Control Schematic and Sequence of Operations
NOT TO SCALE

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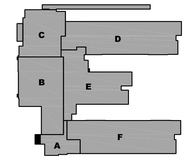

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Sheet Title:

MECHANICAL CONTROLS

M7.02

CONTROL GENERAL NOTE

THE ECMS SYSTEM SHALL INTEGRATE ONLY THE VAV SYSTEMS.

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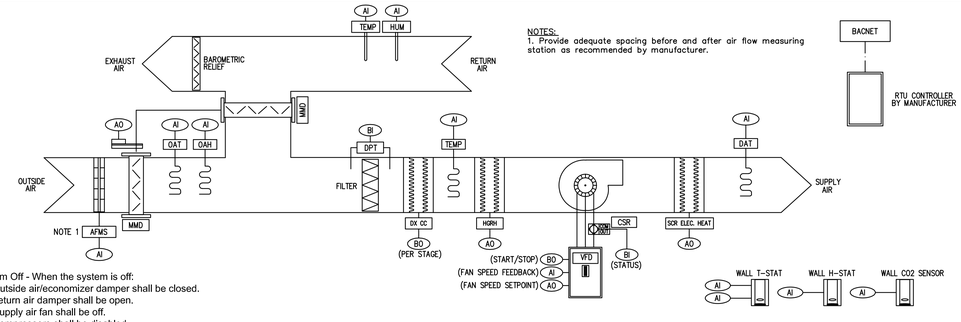

NOTES:
1. Provide adequate spacing before and after air flow measuring station as recommended by manufacturer.

System Off - When the system is off:
The outside air/economizer damper shall be closed.
The return air damper shall be open.
The supply air fan shall be off.
The compressors shall be disabled.
The hot gas reheat valve shall be closed.
The electric heater shall be disabled.
The control loops shall be disabled.

System Startup - System start-up shall be initiated:
By an operator entered manual command at the EMCS.
Automatically by the EMCS based on Pre-Start Mode or Night-Setback Mode.

Pre-Start Mode:
The system shall be enabled automatically by the EMCS based on the Optimal Start/Stop algorithm. Once enabled, the system shall operate per the system Operation section, as detailed below. Operation of the system during Pre-Start Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

Night Setback Mode:
The system shall be enabled automatically by the EMCS when the space temperature drifts outside the active Unoccupied Cooling or Heating Setpoint. Once enabled, the system shall operate per the System Operation section as detailed below. Operation of the system during Night-Setback Mode shall not include ventilation air. Economizer mode shall be permitted to operate per the System Operation section as detailed below.

System Operation - When system start-up has been initiated:
The variable speed supply air fan shall start. Following a conformation of fan start status, the supply fan speed shall be modulated to the minimum speed reference value. The speed of the fan shall not be adjusted by more than 20 Hz in any one-minute period. The unit shall be controlled by one of the following modes:
COOLING MODE: When the space temperature is above the Cooling Setpoint, the refrigerant compression shall be staged to maintain the active DX coil discharge air temperature setpoint. The supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Cooling Setpoint.

ECONOMIZER MODE: When the outside air enthalpy is less than 28.0 btu/lb, the outside air dry bulb temperature is less than 75°F, and there is a call for cooling, the outside air/economizer and return air dampers shall be modulated such that the unit provides 100% outside air for space cooling, and the refrigerant compression shall be staged to maintain the active DX coil discharge air temperature setpoint, and the supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Cooling Setpoint. The barometric relief damper integral to the unit shall prevent building over-pressurization. If the outside air enthalpy exceeds 28.0 btu/lb or the outside air temperature exceeds 75°F, or if there is no longer a call for cooling, Economizer Mode shall be disabled.

HEATING MODE: When the space temperature is below the Heating Setpoint, the electric heater shall modulate to maintain the active electric heating discharge air temperature setpoint. The supply fan VFD shall modulate from its minimum setting to its maximum setting as required to maintain the active space Heating Setpoint.

DE-HUMIDIFICATION MODE: When the space humidity is above the space humidity high-limit setpoint, the refrigerant compression shall be staged to maintain the active de-humidification DX coil discharge air temperature setpoint, the supply fan VFD shall modulate to its minimum setting, and the hot gas reheat valve shall modulate to maintain the reheat setpoint as required. The unit shall exit de-humidification mode when the space humidity setpoint has been satisfied for at least 10 minutes (adj).

DEMAND CONTROL VENTILATION - During occupied hours, the outside air flow rate shall modulate from its scheduled maximum flow rate to its scheduled minimum flow rate. If the space CO2 level is at least 100 ppm (adj) less than its active high limit setpoint for a time period of 10 minutes (adj), the outside air/economizer damper and return air damper shall be modulated to maintain the minimum scheduled outside air flow rate. If the space CO2 level rises to within 50 ppm (adj) of its active high limit, the outside air/economizer damper and return air damper shall be modulated to maintain the scheduled maximum outside air flow rate.

Outside Air/Economizer Damper / Return Air Damper Integration with Supply Fan VFD: Dynamic control of the outside air/economizer damper and return air damper positions shall be provided through the full range of the supply fan VFD modulation. The outside air/economizer and return air motorized dampers shall modulate to maintain the active outside air flow rate setpoint. Damper positions shall not be adjusted by more than 20% (adj) in any one-minute time period.

System Setpoints - The setpoints for the system shall be determined as follows:
The maximum speed reference value shall be the VFD speed required to obtain the design supply airflow value from the unit schedule on the Mechanical Drawings.
The minimum speed reference value shall be VFD speed required to obtain 50% of the design supply airflow value from the unit schedule on the mechanical drawings but not less than the active outside air flow rate setpoint.
The Occupied Heating Setpoint shall be set initially at 72 °F (adjustable).
The Occupied Cooling Setpoint shall be set initially at 74 °F (adjustable).
The Unoccupied Heating Setpoint shall be set initially at 55 °F (adjustable).
The Unoccupied Cooling Setpoint shall be set initially at 85 °F (adjustable).
The DX coil discharge air temperature setpoint shall be set initially at 53 °F (adjustable).
The de-humidification DX coil discharge air temperature setpoint shall be set initially at 50 °F (adjustable).
The electric heating discharge air temperature setpoint shall be set initially at 85 °F (adjustable).
The space humidity high-limit setpoint shall be set initially at 60% RH (adjustable).
The reheat setpoint shall be set initially at 75 °F (adjustable).
The minimum outside air flowrate setpoint shall be set at the scheduled minimum flowrate from the unit schedules on the mechanical drawings.
The maximum outside air flowrate setpoint shall be set at the scheduled maximum flowrate from the unit schedule on the mechanical drawings.
The space carbon dioxide high-limit setpoint be set to 1000 ppm (adj).
The air filter pressure differential high-limit shall be set at 1.0 in.wc. (adj).

System Shutdown - System shutdown shall be initiated:
By operator entered manual command at the EMCS.
Automatically by the EMCS based on Night-Setback or Time of Day schedule.
Automatically by supply fan current sensor status failure.

System Alarms - The EMCS shall generate an alarm if:
If the space temperature is outside the active low or high limits by more than 2°F for 5 minutes (adj).
If the supply air temperature drops below the DX coil discharge air temperature low-limit of 45 °F for 5 minutes (adj).
If the supply air temperature rises above the electric heating discharge air temperature high-limit of 100 °F for 5 minutes (adj).
If the space humidity level exceeds its high-limit for more than 20 minutes (adj).
If the space carbon dioxide level exceeds its high-limit for more than 20 minutes (adj) or the space carbon dioxide level exceeds the high-limit by 10% or more.
If the filter differential pressure exceeds the trip point.
If the current sensor relay indicates a supply fan failure status.
All alarms shall be inhibited when the supply fan is not operating except the space temperature alarms. The alarms, except the fan failure and the space temperature alarms, shall remain inhibited following startup of the unit for 2 minutes.

Notes:
The equipment manufacturer's unit controller shall include controls to perform all equipment functions. The EMCS Contractor shall integrate with the unit controller via BACnet for detailed setpoint adjustments, unit monitoring, alarm inputs, and equipment scheduling.

1 **Direct Expansion Single Zone VAV Rooftop Unit w/ Elec. Heat, Econ., De-humidification, DCV - Control Schematic and Sequence of Operations**
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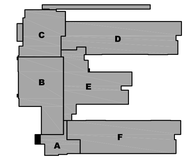

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MECHANICAL CONTROLS

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ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FEED
FLA	FULL LOAD AMPS
FT	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE, "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:

- "GFCI" GROUND FAULT INTERRUPTER
- "WP" WEATHERPROOF
- "IG" ISOLATED GROUND
- "TR" TAMPER RESISTANT
- "USB" RECEPTACLE WITH USB CHARGING PORTS
- "AC" ABOVE COUNTER MOUNTING
- "UC" UNDER COUNTER MOUNTING
- "H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- TV TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- JUNCTION BOX
  - "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  - "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  - "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- P PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- PP POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- C (2) CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' 2' X 2' 1' X 4' 1' X 2' 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL — EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  - "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT — LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED, HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- HS HDS SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- VC VOLUME CONTROL - WALL MOUNTED
- CB INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- S L INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- S VC INTERCOM/PA SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P SWITCH, RATING AS SHOWN
- 400A FUSE, RATING AS SHOWN
- ST SHUNT TRIP
- GFP GROUND FAULT PROTECTION
- K KIRK-KEY INTERLOCK
- M DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- M ELECTRICAL UTILITY REVENUE METER
- SPD SURGE PROTECTION DEVICE
- GANN GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER

DAYLIGHT ZONES

- DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

MISCELLANEOUS

- SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 DRAWING NOTE REFERENCE
- SOS AREA OF RESCUE ASSISTANCE

FIRE ALARM

- W WATER FLOW SWITCH
- SP SUPERVISORY SWITCH
- S SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S SF SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H HEAT DETECTOR
- S BT BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S FIRE ALARM SPEAKER / CEILING MOUNT.
- DH MAGNETIC DOOR HOLDER
- R AUXILIARY CONTROL RELAY
- FH FIRE FIGHTER HANDSET
- F FIRE ALARM PULL STATION +42" AFF
- F FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP FIRE ALARM CONTROL PANEL
- ANN REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- PB ADA AUTO DOOR OPEN BUTTON
- DR DOOR RELEASE BUTTON
- CR WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON "LIGHTING CONTROL DEVICE SCHEDULE" LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:

- TYPE, PER SCHEDULE
- NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH
- SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:

- OCx OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
- CEILING SENSOR
- WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:

- PC DIGITAL PHOTOCELL
- DS DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:

- XX RELAYS/CONTACTORS/TIMERS/DEVICES WHERE "XX" INDICATES:
  - "LC" LIGHTING CONTRACTOR
  - "LCP" LIGHTING CONTROL PANEL
  - "TS" TIME SWITCH
  - "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER; SHEET NUMBER

PANELBOARD NOMENCLATURE

5 DP C H A 1

- 5 SUB PANEL
- DP AREA
- C VOLTAGE
  - H: 480Y/277V
  - L: 208Y/120V
- H BRANCH
- A NONE: NORMAL
  - E: LIFE SAFETY
  - Q: EQUIPMENT
  - C: CRITICAL
  - R: LEGALLY REQUIRED
  - X: OPTIONAL STAND-BY
- 1 DISTRIBUTION PANEL (IF APPLICABLE)
- LEVEL

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

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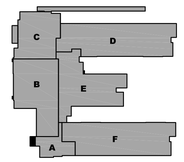


KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

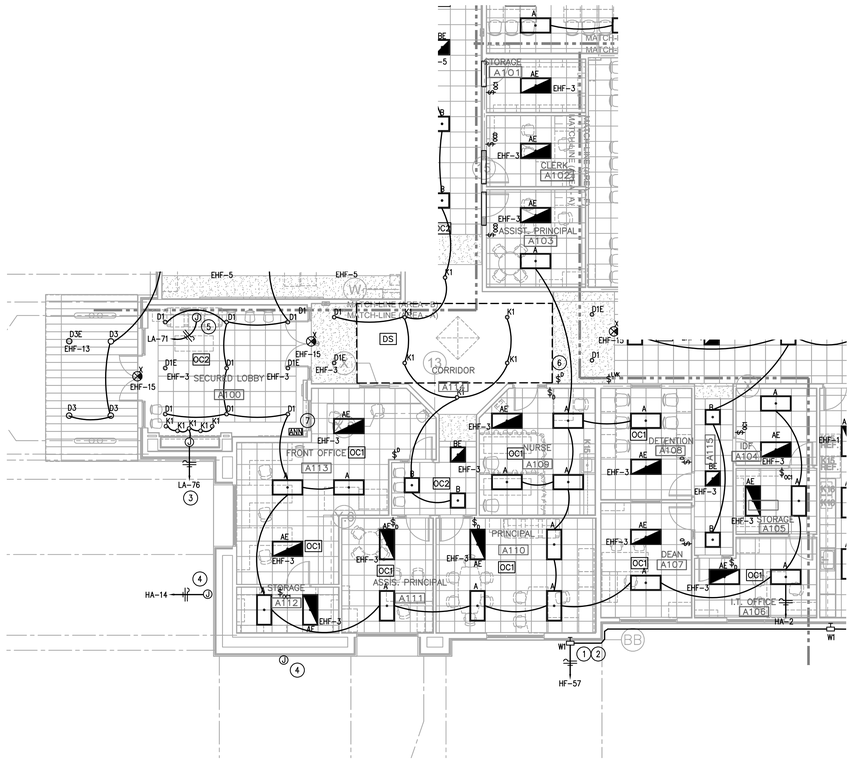
Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL SYMBOL LEGEND

E0.01



1 LIGHTING PLAN - AREA A

EL2.11A

1/8" = 1'-0"

LIGHTING GENERAL NOTES: (APPLIES TO ALL LIGHTING SHEETS)

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVCE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENT IN CEILING LOCATION TO ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES MUST BE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

EMER. LIGHTING GENERAL NOTES: (APPLIES TO ALL LIGHTING SHEETS)

A. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET E6.01 FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

C. PROVIDE DEDICATED BRANCH CIRCUIT ON LIFE SAFETY PANEL FOR EXIT SIGNS PER AREA.

KEYED NOTES:

1. ROUTE THIS CIRCUIT THROUGH LIGHTING RELAY PANEL.
2. EXTERIOR WALL PACK FIXTURES MOUNTING HEIGHT OF 12'-0" A.F.F. TYPICAL.
3. PROVIDE 120V CONNECTION TO TROPHY CASE INTEGRAL LIGHT FIXTURE AND TIE INTO CORRIDOR/LOBBY LIGHTING CONTROLS.
4. DEDICATED CIRCUIT FOR BUILDING MOUNTED SIGNAGE. CONFIRM QUANTITY OF J-BOX ROUGH-INS WITH SIGN MANUFACTURER'S SHOP DRAWINGS, AND FINAL HEIGHT WITH ARCHITECTURAL ELEVATIONS.
5. PROVIDE 120V CONNECTION TO LOBBY WALL SIGN AND TIE INTO CORRIDOR/LOBBY LIGHTING CONTROLS. PROVIDE RELAY.
6. APPROXIMATE LOCATION OF DIMMER SWITCH FOR TUBULAR SKYLIGHT DEVICES.

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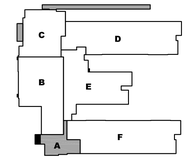

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

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Revisions:

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LIGHTING PLAN - AREA A

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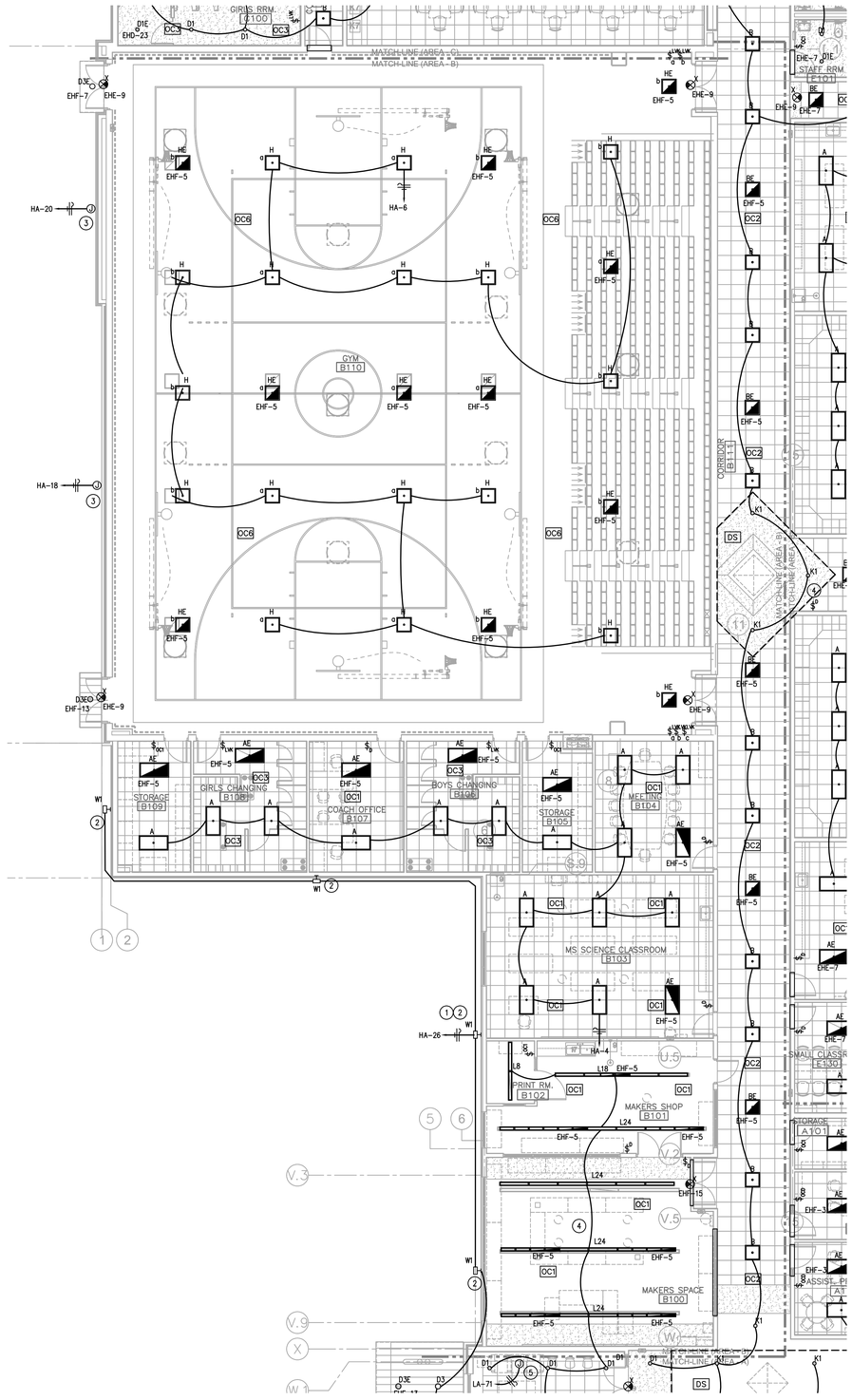
EL2.11A



1 LIGHTING PLAN - AREA B
EL2.11B 1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENT IN CEILING LOCATION TO ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES MUST BE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

EMER. LIGHTING GENERAL NOTES:

A. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET E6.01 FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

C. PROVIDE DEDICATED BRANCH CIRCUIT ON LIFE SAFETY PANEL FOR EXIT SIGNS PER AREA.

D. ALL EMERGENCY LIGHTING CIRCUITS SHALL BE ROUTED THROUGH A UL 1008-LISTED BODINE 20A GENERATOR TRANSFER DEVICE (GTD) TO PROVIDE AUTOMATIC TRANSFER TO THE EMERGENCY POWER SOURCE.

KEYED NOTES:

1. ROUTE THIS CIRCUIT THROUGH LIGHTING CONTACTOR.
2. EXTERIOR WALL PACK FIXTURES MOUNTING HEIGHT OF 12'-0" A.F.F TYPICAL.
3. DEDICATED CIRCUIT FOR BUILDING MOUNTED SIGNAGE. CONFIRM QUANTITY OF J-BOX ROUGH-INS WITH SIGN MANUFACTURER'S SHOP DRAWINGS, AND FINAL HEIGHT WITH ARCHITECTURAL ELEVATIONS.
4. APPROXIMATE LOCATION OF DIMMER SWITCH FOR TUBULAR SKYLIGHT DEVICES. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

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LICENSED PROFESSIONAL ENGINEER
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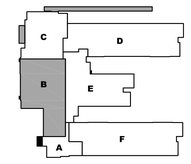

KEYPLAN

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Revisions:

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LIGHTING PLAN - AREA B

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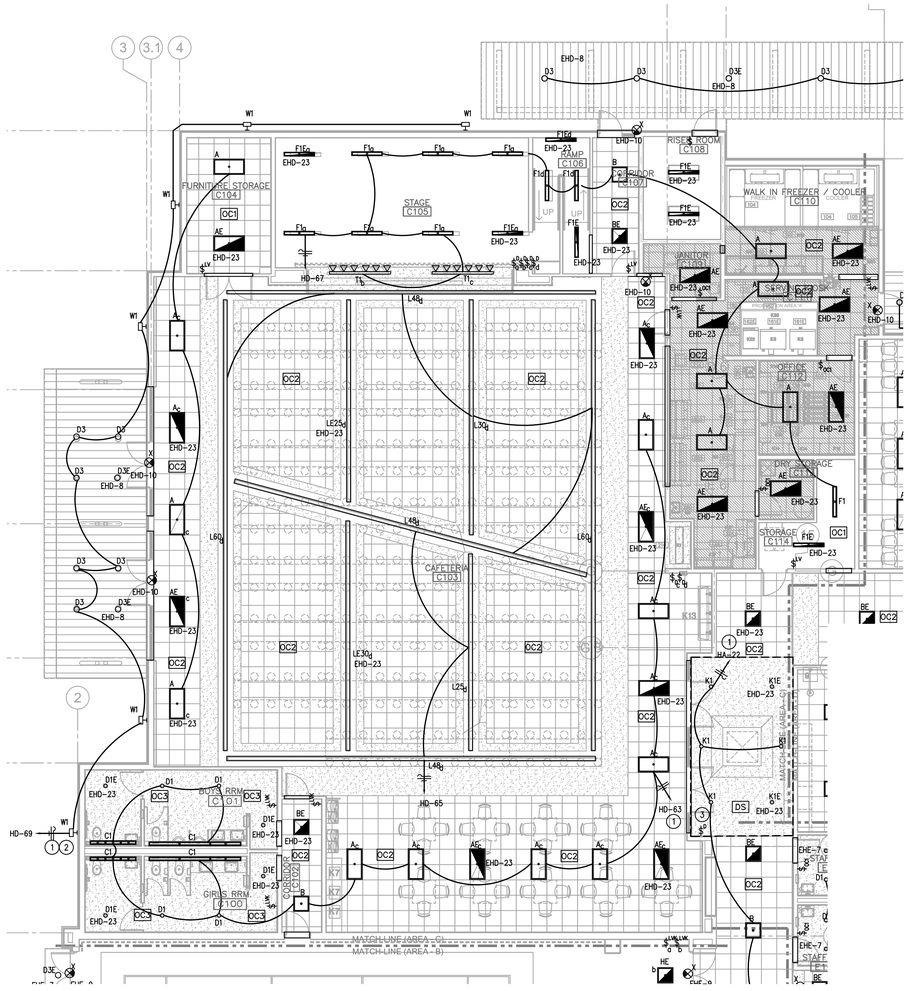
EL2.11B



1 EL2.11C **LIGHTING PLAN - AREA C**
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENT IN CEILING LOCATION TO ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES MUST BE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

EMER. LIGHTING GENERAL NOTES:

A. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET E6.01 FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

C. PROVIDE DEDICATED BRANCH CIRCUIT ON LIFE SAFETY PANEL FOR EXIT SIGNS PER AREA.

D. ALL EMERGENCY LIGHTING CIRCUITS SHALL BE ROUTED THROUGH A UL 1008-LISTED BODINE 20A GENERATOR TRANSFER DEVICE (GTD) TO PROVIDE AUTOMATIC TRANSFER TO THE EMERGENCY POWER SOURCE.

KEYED NOTES:

1. ROUTE THIS CIRCUIT THROUGH LIGHTING CONTACTOR.
2. EXTERIOR WALL PACK FIXTURES MOUNTING HEIGHT OF 12'-0" A.F.F. TYPICAL.
3. APPROXIMATE LOCATION OF DIMMER SWITCH FOR TUBULAR SKYLIGHT DEVICES. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

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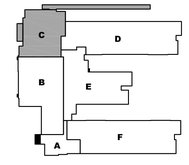

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LIGHTING PLAN - AREA C

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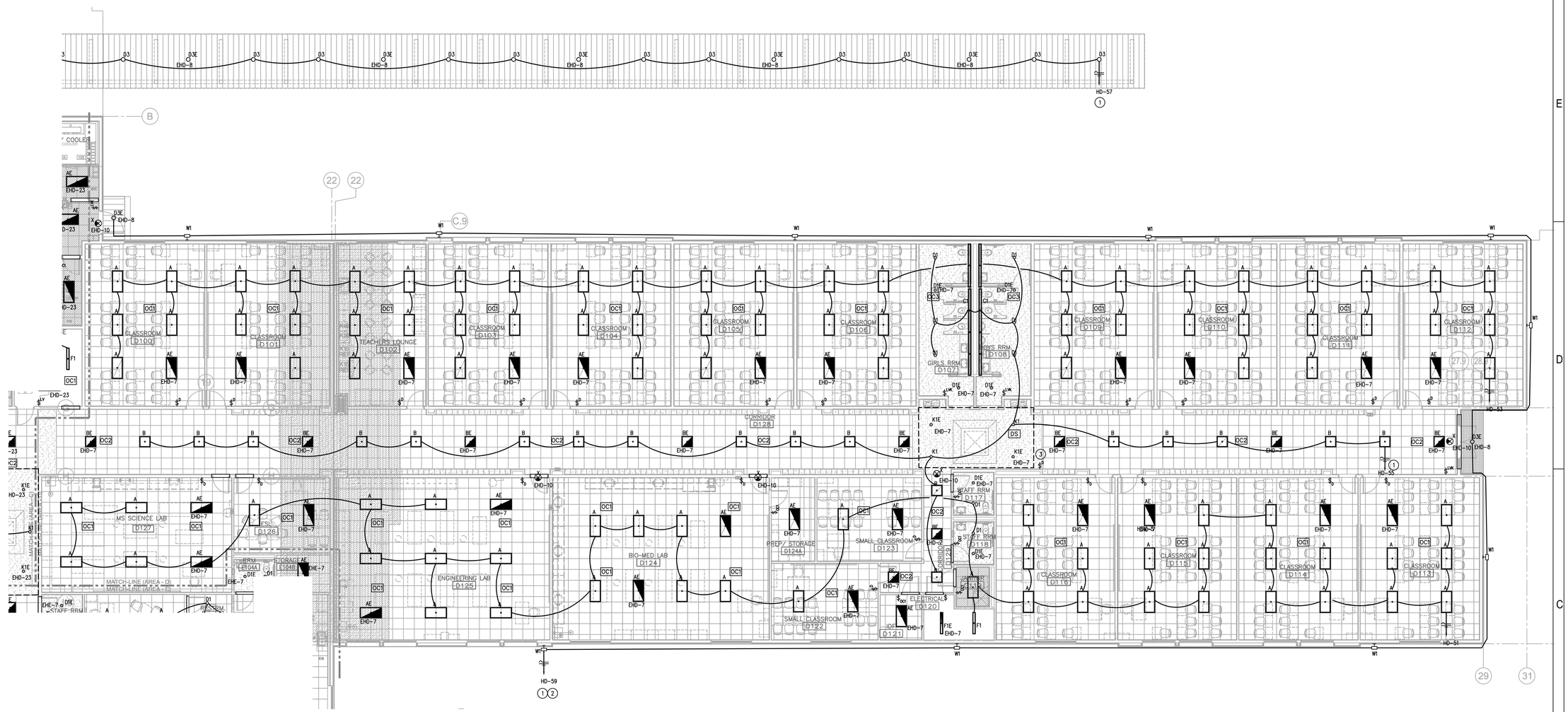
EL2.11C



1 LIGHTING PLAN - AREA D
EL2.11D
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

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E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

EMER. LIGHTING GENERAL NOTES:

A. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET E6.01 FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

C. PROVIDE DEDICATED BRANCH CIRCUIT ON LIFE SAFETY PANEL FOR EXIT SIGNS PER AREA.

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KEYED NOTES:

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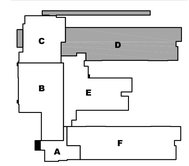

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LIGHTING PLAN - AREA D

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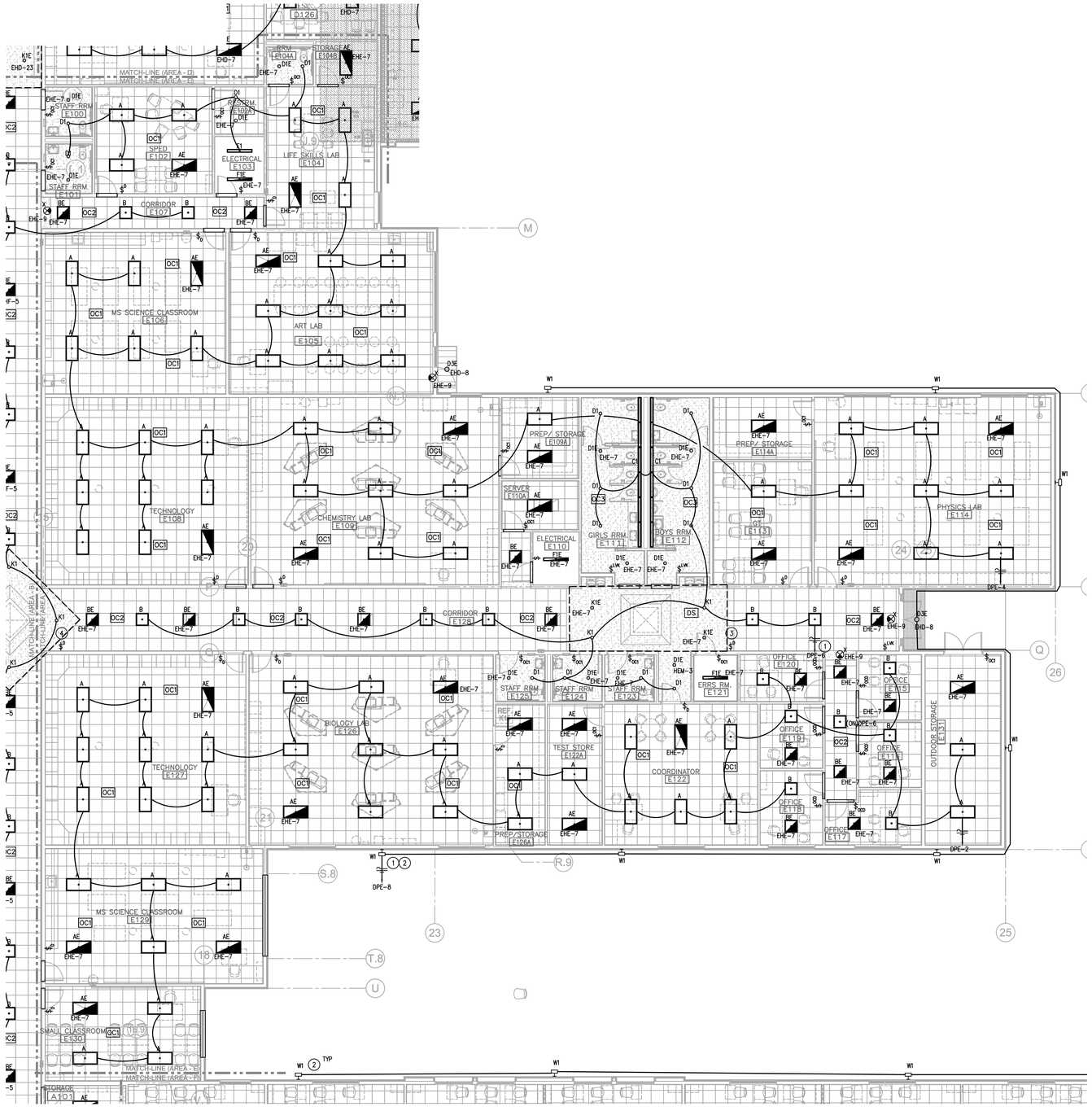

1 EL2.11E **LIGHTING PLAN - AREA E**
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

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E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

EMER. LIGHTING GENERAL NOTES:

A. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE GTD DEVICE. REFER TO GTD WIRING DIAGRAM ON SHEET E6.01 FOR ADDITIONAL INFORMATION.

B. ALL EMERGENCY LIGHT FIXTURE GENERATOR TRANSFER DEVICES SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT INDICATED ON DRAWINGS. ALL EMERGENCY WIRING SHALL BE ROUTED IN A SEPARATE CONDUIT.

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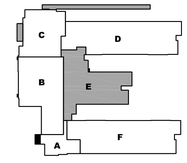

KEYPLAN

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LIGHTING PLAN - AREA E

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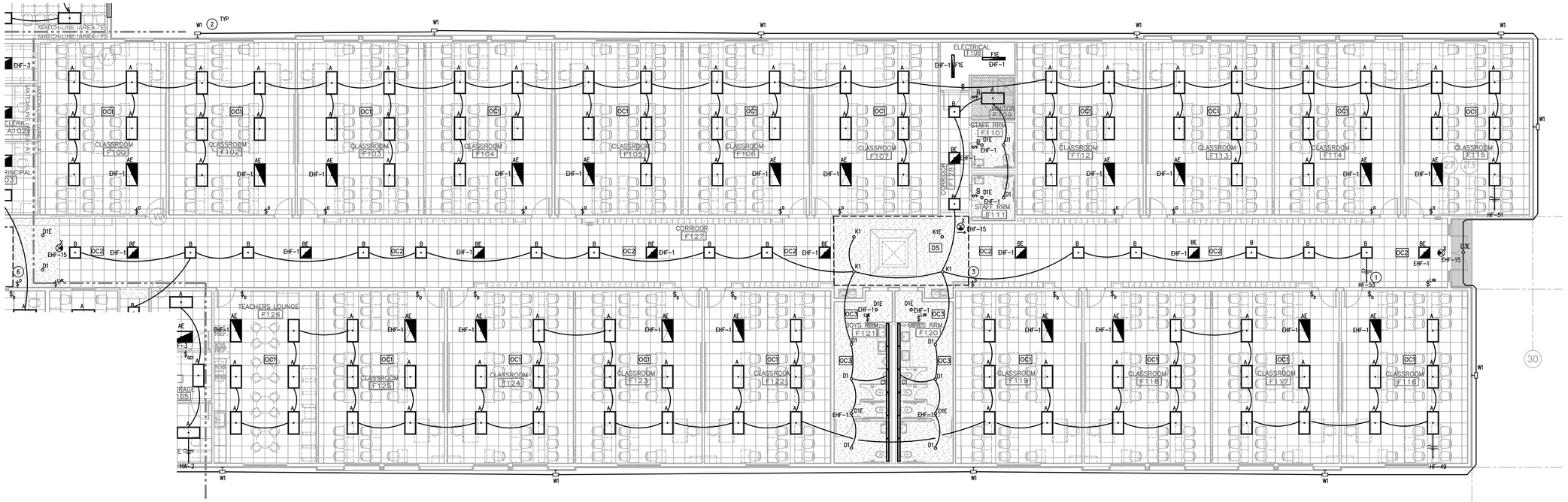
EL2.11E



1 LIGHTING PLAN - AREA F

EL2.11F

1/8" = 1'-0"

LIGHTING GENERAL NOTES:

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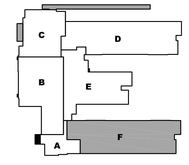

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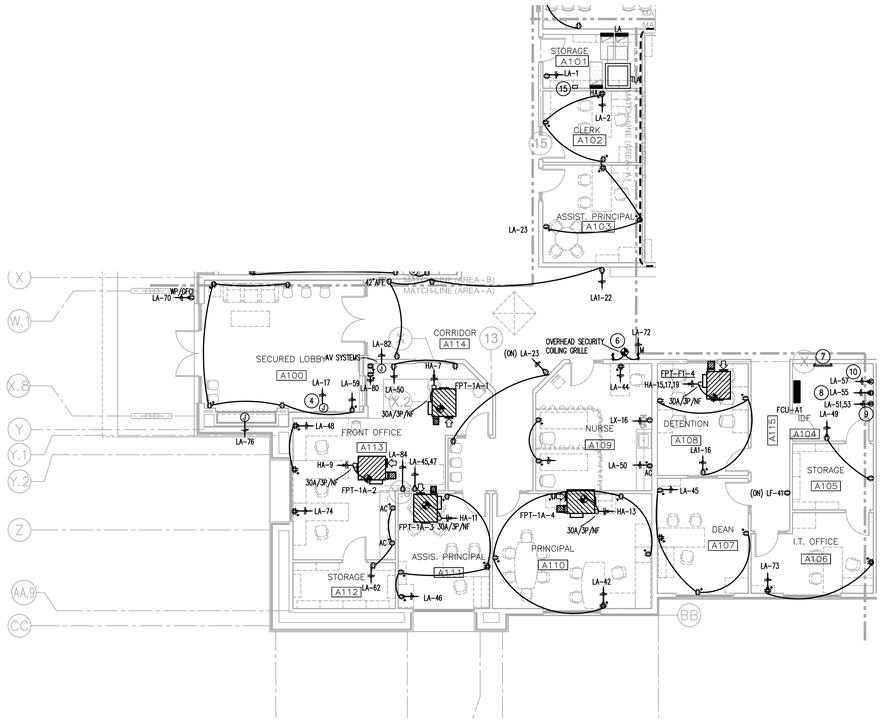
LIGHTING PLAN - AREA F

EL2.11F



1 EP2.11A **ELECTRICAL POWER PLAN AREA A**

1/8" Scale

GENERAL ELECTRICAL NOTES:

1. PROVIDE RECEPTACLE AT CEILING FOR CEILING MOUNTED PROJECTOR. COORDINATE WITH OWNER AND DIVISION 27 FOR REQUIRED DATA ROUGH-IN.
2. PROVIDE HUBELL #HBLC40123TT CORD REEL NEAR STUDENT DESK SIDE. PROVIDE DUPLEX RECEPTACLE AT CEILING NEAR BASE OF CORD REEL AND WITH BALL STOPPER ON CORD. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH INSTALLATION. TYPICAL FOR ALL CORD REELS.
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4. POWER TO INTERIOR LED SIGN ON LOBBY WALL. COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT.
5. PROVIDE HUBBEL FLOOR BOX MODEL #CFB2G30RCR WITH SUB-PLATES #FBMPREC & #FBMP6KS. COORDINATE DEVICE COVER/FINISH WITH ARCHITECT PRIOR TO ORDERING. TYPICAL FOR ALL FLOOR BOXES.
6. PROVIDE POWER TO OVERHEAD COILING GRILLE WITH FIRE ALARM CONTROL AND MONITORING RELAYS. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH SELECTED EQUIPMENT. PROVIDE KEYED SWITCHES FOR OPERATION ON EITHER SIDE DOOR IN CORRIDOR.
7. GROUND BUS BAR MOUNTED 64"A.F.F BY DIVISION 27.
8. RECEPTACLE MOUNTED DIRECTLY BELOW WALL MOUNTED IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
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14. PROVIDE HUBBEL HBL25143GF215M CORD REEL AT APPROXIMATE LOCATION. ENSURE ASSOCIATED BREAKER IS TYPE GFCI.
15. PROVIDE LIGHTING CONTACTOR PANEL FOR EXTERIOR/CORRIDOR FIXTURES. PROVIDE FIXTURES WITH UL1008 DEVICE. REFERENCE SHEET E5.01 FOR ADDITIONAL INFORMATION.

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TBPE Firm Registration No. 2234
DBR Project#: 254026.000
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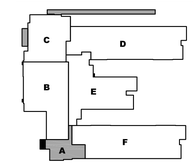


KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

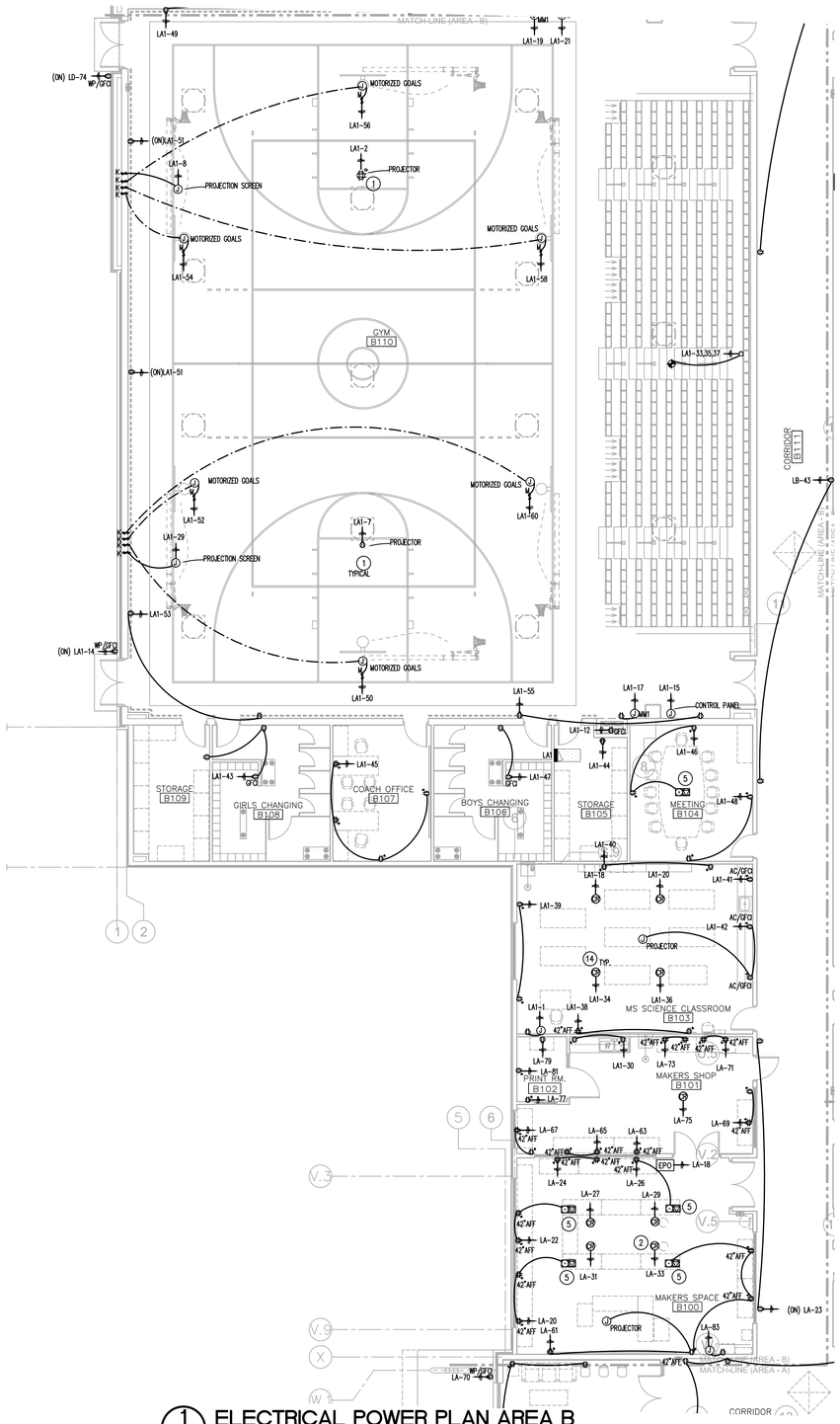
Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL POWER PLAN - AREA A

EP2.11A



1 EP2.11B **ELECTRICAL POWER PLAN AREA B**
1/8" Scale

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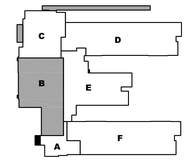

KEYPLAN

Project Number: 24.23
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Revisions:

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ELECTRICAL POWER PLAN - AREA B

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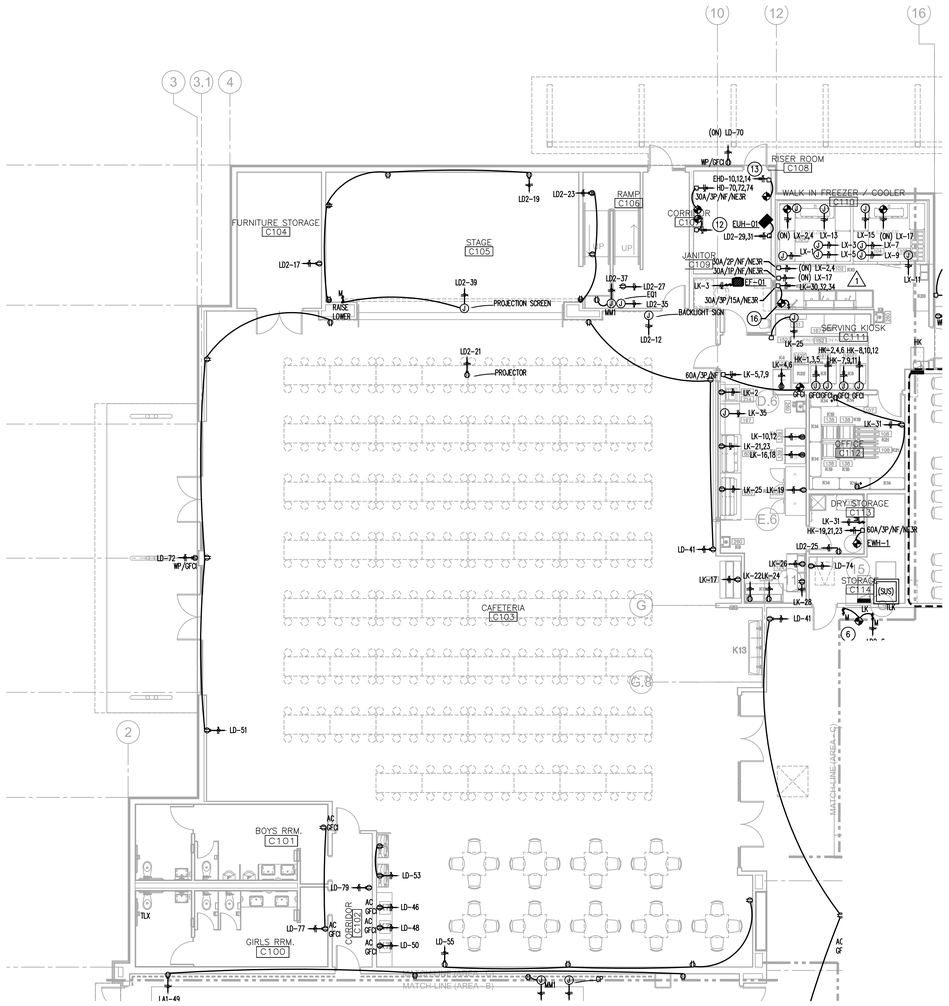
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

EP2.11B



1 EP2.11C ELECTRICAL POWER PLAN AREA C

1/8" Scale

FOOD SERVICE ELECTRICAL SCHEDULE								
REFER TO SHEET GF1 FOR ELECTRICAL COORDINATION NOTES								
FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH	FDP ESERVICE TO	FDP ELOC	FDP EAFF	FDP EREMARKS
E10	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	24"	---
E11	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	47"	MOUNT HORIZONTAL
E12	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	47"	---
E13	WPR	16.0A	120	1	CONVENIENCE OUTLET	WALL	48"	---
E15	JB	---	---	---	REMOTE FIRE PULL	WALL	54"	BTC; RECESSED JB - EXTEND TO FIRE SYSTEM FOR HOOD
E102A	JB	16.0A	120	1	DOOR HEATER/LIGHTS	CLG	DFA	BTC
E102B	JB	5.0A	120	1	TEMP. ALARM	CLG	DFA	BTC
E102C	JB	5.0A	120	1	PRESSURE RELIEF PORT	CLG	DFA	BTC
E102E	JB	10.0A	120	1	PANIC ALARM BUTTON	CLG	DFA	BTC; INTERCONNECT TO STROBE LIGHT/HORN ABOVE FREEZER DOOR AND IN CAFETORIUM
E103	JB/DS	40.0A	208	3	REFRIGERATION SYSTEM	VERIFY	VERIFY	BTC; RE: NOTE #4 & #5; WEATHERPROOF DISCONNECT SWITCH
E103C	JB	16.0A	208	1	FREEZER COIL	CLG	DFA	BTC
E103D	JB	10.0A	120	1	COOLER COIL	CLG	DFA	BTC
E103E	JB	---	---	---	DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT
E110B	SR	30.0A	120/240	1	STACKED WASHER DRYER	WALL	48"	VERIFY NEMA PLUG RECEPTACLE
E139	SR	7.2A	208	1	INSUL. MOBILE PROOFER	VERIFY	48"	VERIFY NEMA PLUG
E151	JB	1.0A	120	1	FIRE PROT. SYSTEM	CLG	DFA	BTC
E153	JB	10.0A	120	1	HOOD LIGHTS	CLG	DFA	BTC
E153M	JB	10.0A	120	1	HEAT SENSOR	CLG	DFA	BTC
E161C	(2)JB	30.0A	480	3	CONVECTION OVEN	WALL	24"/36"	BTC; SHUNT TRIP BREAKER
E162E	JB	9.25"	208	3	CONVECTION STEAMER	WALL	48"	BTC; SHUNT TRIP BREAKER
E210	DR	6.0A	120	1	DROP FRONT MILK COOLER-16 CASE	WALL	24"	---
E214	DR	16.0A	120	1	CASH REGISTER	WALL	24"	DEDICATED CIRCUIT
E214A	JB	---	---	---	POS	WALL	24"	BTC; CONDUIT W/DATA LINE TO RUN TO MANAGER'S OFFICE OR IDF ROOM-VERIFY
E800	DR	7.9A	120	1	REFRIGERATOR REACH-IN 3DR.	WALL	96"	MOUNT HORIZONTAL
E802	JB	9.6A	208	1	(4) HOT WELLS	WALL	24"	
E803	DR	3.1A	120	1	(4) COLD PAN	WALL	24"	

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10. 16.(4)-4" CONDUITS FROM MDF ROOM. CONDUITS SHALL BE STUBBED UP TO 4" ABOVE FINISHED FLOOR AND SHALL BE NO FURTHER THAN 4" FROM WALL. COORDINATE STUB UP LOCATION WITH DIVISION 27. PROVIDE CONDUITS WITH NYLON PULL STRING AND INSULATED BUSHING.
11. REFER TO TECHNOLOGY DRAWINGS FOR COMPLETE LAYOUT AND EQUIPMENT INFORMATION.
12. PROPOSED LOCATION FOR FIRE PUMP CONTROLLER WITH INTEGRAL AUTOMATIC TRANSFER SWITCH PER DIVISION 21 SPECIFICATION. PROVIDE NORMAL POWER CONDUIT AND WIRING ORIGINATING FROM GEN SET SPECIFICATIONS AND ADDITIONAL INFORMATION. DIVISION 26 SHALL ROUTE OUTPUT CIRCUIT FROM CONTROLLER AND TERMINATE ON FIRE PUMP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
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14. PROVIDE HUBBEL HBLI25143GF215M CORD REEL AT APPROXIMATE LOCATION. ENSURE ASSOCIATED BREAKER IS TYPE GFCI.
15. PROVIDE LIGHTING CONTACTOR PANEL FOR EXTERIOR/CORRIDOR FIXTURES. PROVIDE FIXTURES WITH UL1008 DEVICE. REFERENCE SHEET E5.01 FOR ADDITIONAL INFORMATION.
16. PROVIDE POWER FOR GARBAGE DISPOSAL. COORDINATE WITH GARBAGE INSTALLER FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. (1)

FOOD SERVICE ELECTRICAL GENERAL NOTES:

A. ELECTRICAL PLANS ARE SCHEMATIC AND INDICATE GENERAL LOCATION OF ALL DEVICES. ALL ROUGH-INS AND SPECIAL INSTALLATION REQUIREMENTS FOR ANY DEVICE, FIXTURE, OR APPLIANCE IN THE KITCHEN SHALL BE BASED ON FOOD SERVICE PLANS.

B. ALL CONNECTIONS SHOWN ON THESE MAY INCLUDE SPECIAL MOUNTING INSTRUCTIONS THAT ARE INDICATED ON FOOD SERVICE PLANS. REFERENCE FOOD SERVICE FOR ALL DETAILS

C. ALL DISCONNECTS PANELS, COVER PLATES AND ENCLOSURE WITHIN THE LIMITS OF THE KITCHEN WALLS SHALL BE STAINLESS STEEL.

D. ALL RECEPTACLES WITHIN FOOD SERVICE, AREA SHALL INCLUDE GFCI PROTECTION PER NATIONAL ELECTRIC CODE. PROVIDE GFCI TYPE CIRCUIT BREAKER FOR ALL RECEPTACLES THAT ARE NOT READILY ACCESSIBLE, AND ALL SPECIAL RECEPTACLES.

E. CONTRACTOR SHALL PROVIDE ALL EXACT ELECTRICAL CONNECTIONS FOR COOLER/FREEZER SYSTEM AND ACCESSORIES AS INDICATED ON FOOD SERVICE PLANS. ELECTRICAL PLANS SHOW SCHEMATIC CIRCUITRY ONLY.

F. CONTRACTOR SHALL PROVIDE CIRCUIT AND SWITCH CONTROL TO KITCHEN HOOD LIGHTS.

G. PROVIDE INTERCONNECT FIRE PROTECTION SYSTEM TO PANEL SHUNT TRIP BREAKER(S), NATURAL GAS SOLENOID VALVES, AND BUILDING ALARM.

H. PROVIDE EMPTY CONDUIT FROM CASHIER STATION TO MANAGERS OFFICE FOR POS SYSTEM. LOCATION OF MANAGER'S OFFICE SHALL BE VERIFIED IN FIELD WITH FOOD SERVICE INSTALLERS, OWNER, AND ARCHITECT PRIOR TO INSTALLATION OF CONDUIT AND ASSOCIATED ROUGH-INS. COORDINATE EXACT LOCATION OF POS SYSTEM IN MANAGERS OFFICE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

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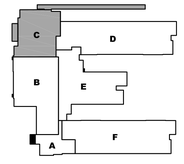

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL POWER PLAN - AREA C

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TBPE Firm Registration No. 2234
DBR Project#: 254026.000
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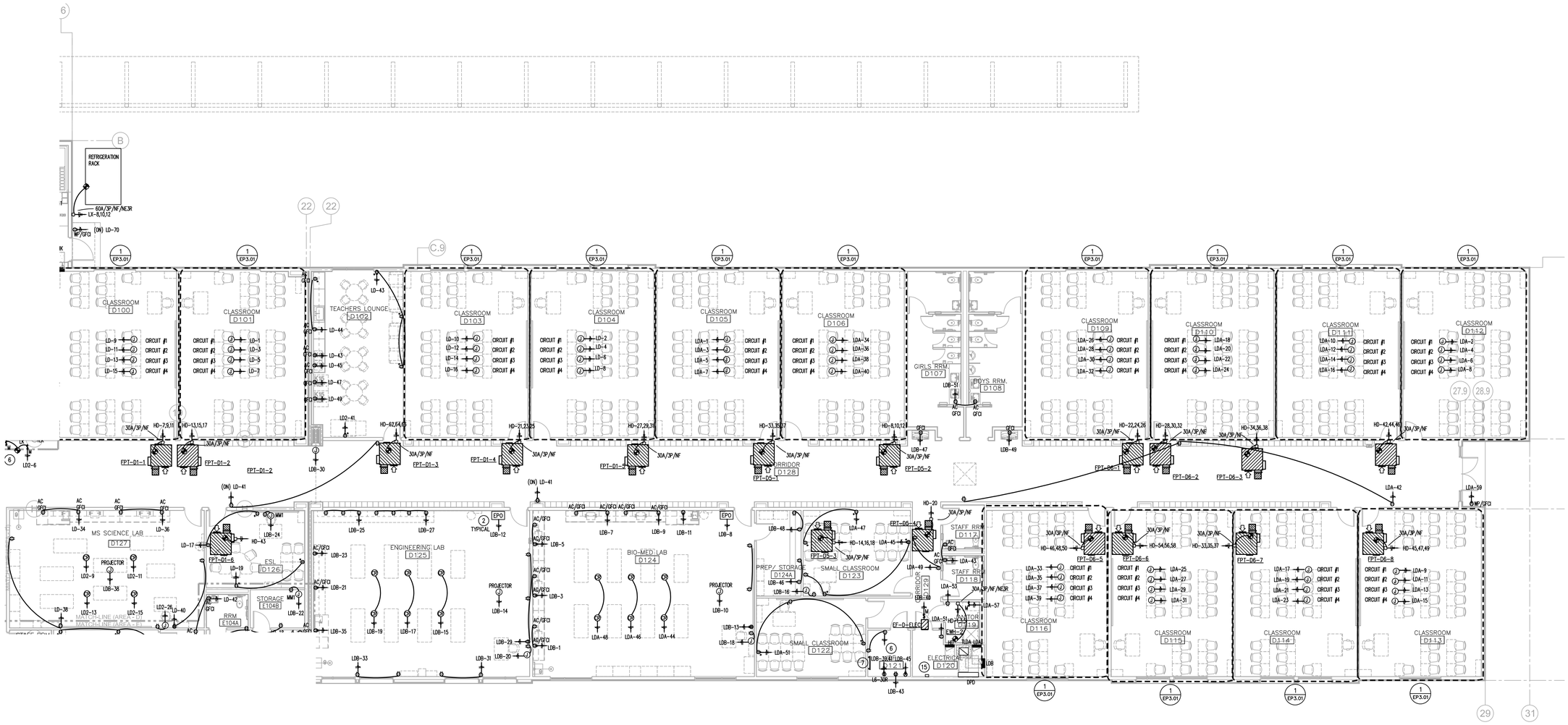
EP2.11C



1 EP2.11D ELECTRICAL POWER PLAN AREA D

1/8" Scale

KEYED NOTES:

1. PROVIDE RECEPTACLE AT CEILING FOR CEILING MOUNTED PROJECTOR. COORDINATE WITH OWNER AND DIVISION 27 FOR REQUIRED DATA ROUGH-IN.
2. PROVIDE HUBELL #HBLC40123TT CORD REEL NEAR STUDENT DESK SIDE. PROVIDE DUPLEX RECEPTACLE AT CEILING NEAR BASE OF CORD REEL AND WITH BALL STOPPER ON CORD. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH INSTALLATION. TYPICAL FOR ALL CORD REELS.
3. PROPOSED LOCATION OF A MAINTAINED CONTACT EMERGENCY POWER OFF SWITCH, PROVIDE WITH A STOPPER II CLEAR COVER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. POWER TO INTERIOR LED SIGN ON LOBBY WALL. COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT.
5. PROVIDE HUBBEL FLOOR BOX MODEL #CFB2G3ORCR WITH SUB-PLATES #FBMPREC & #FBMP8KS. COORDINATE DEVICE COVER/FINISH WITH ARCHITECT PRIOR TO ORDERING. TYPICAL FOR ALL FLOOR BOXES.
6. PROVIDE POWER TO OVERHEAD COILING GRILLE WITH FIRE ALARM CONTROL AND MONITORING RELAYS. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH SELECTED EQUIPMENT. PROVIDE KEYED SWITCHES FOR OPERATION ON EITHER SIDE DOOR IN CORRIDOR.
7. GROUND BUS BAR MOUNTED 64"A.F.F BY DIVISION 27.
8. RECEPTACLE MOUNTED DIRECTLY BELOW WALL MOUNTED IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
9. PROVIDE L6-30R TWIST LOCK RECEPTACLE MOUNTED DIRECTLY BELOW IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
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14. PROVIDE HUBBEL HBU25143GF215M CORD REEL AT APPROXIMATE LOCATION. ENSURE ASSOCIATED BREAKER IS TYPE GFCI.
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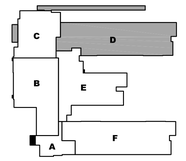

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
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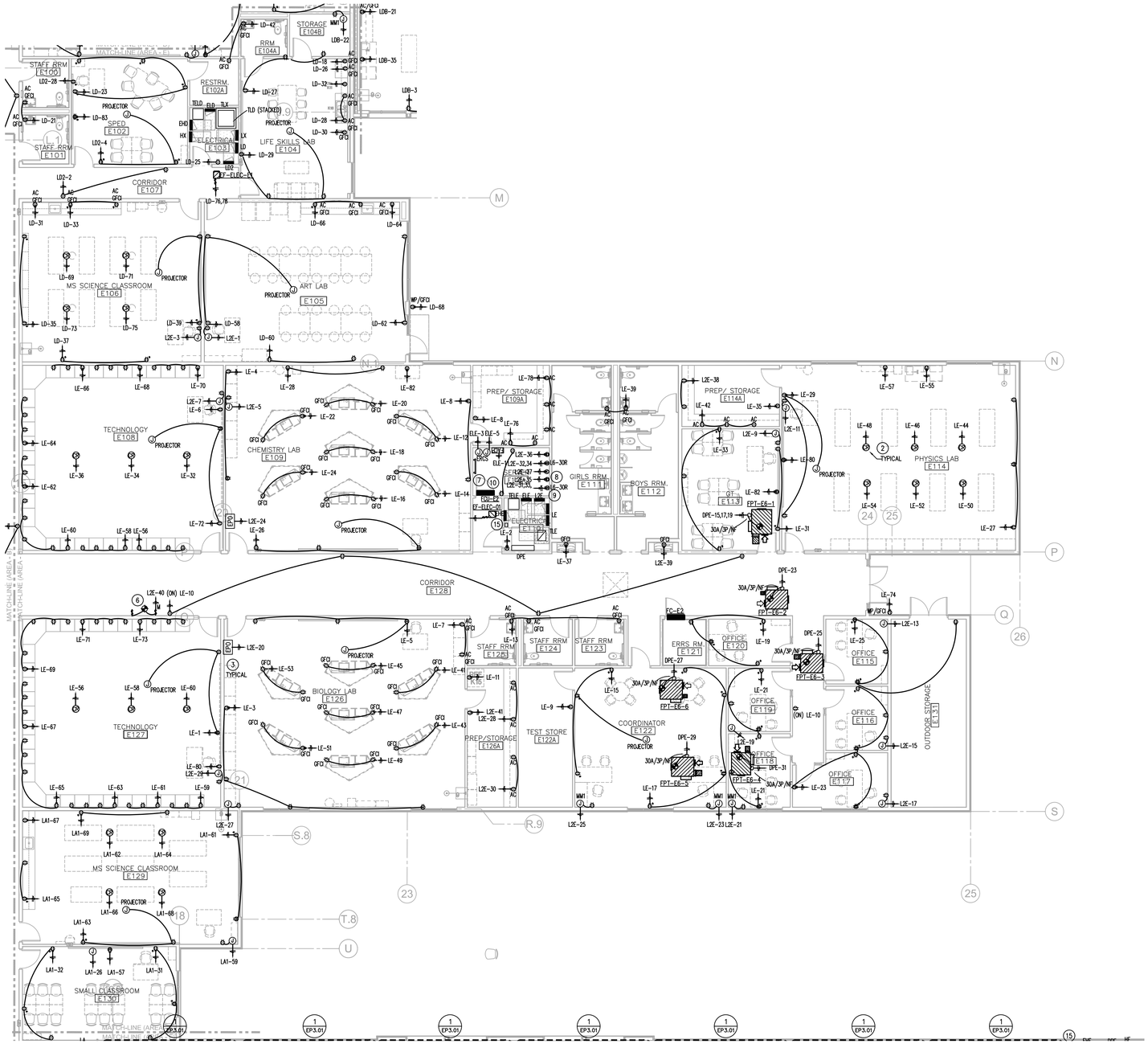
Sheet Title:

ELECTRICAL POWER PLAN - AREA D

EP2.11D



1 EP2.11E ELECTRICAL POWER PLAN AREA E

1/8" Scale

GENERAL ELECTRICAL NOTES:

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2. PROVIDE HUBELL #HBLC40123TT CORD REEL NEAR STUDENT DESK SIDE. PROVIDE DUPLEX RECEPTACLE AT CEILING NEAR BASE OF CORD REEL AND WITH BALL STOPPER ON CORD. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH INSTALLATION. TYPICAL FOR ALL CORD REELS.
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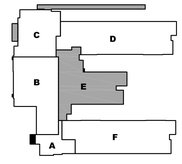

KEYPLAN

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ELECTRICAL POWER PLAN - AREA E

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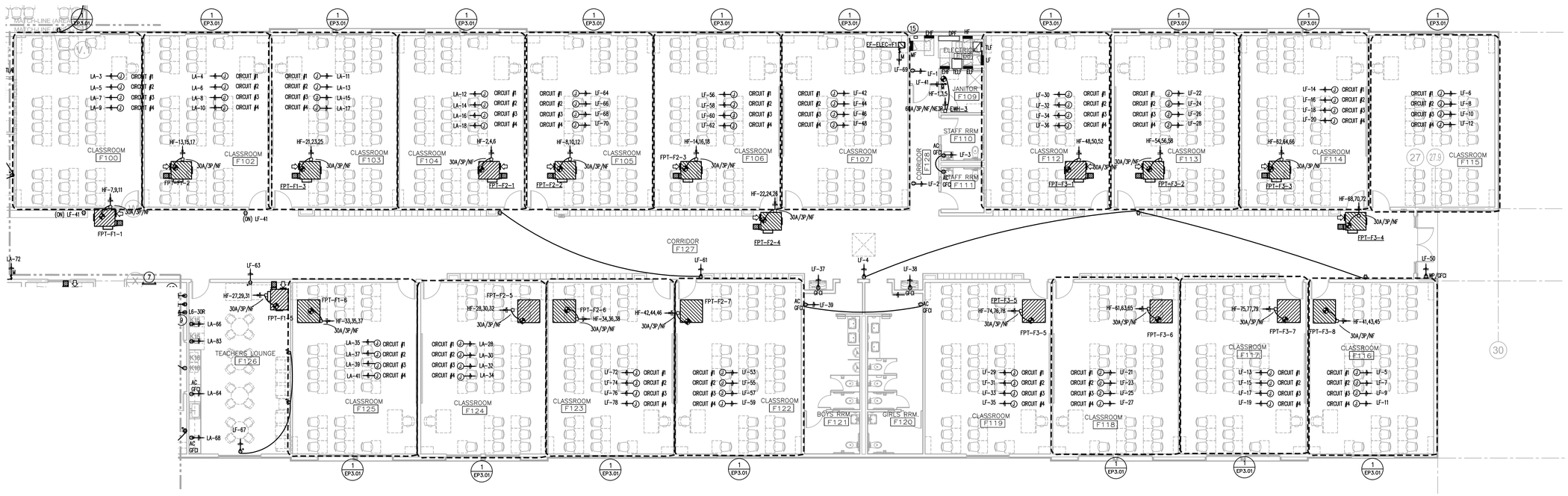
EP2.11E



1 ELECTRICAL POWER PLAN AREA F

EP2.11F

1/8" Scale

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8. RECEPTACLE MOUNTED DIRECTLY BELOW WALL MOUNTED IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
9. PROVIDE L6-30R TWIST LOCK RECEPTACLE MOUNTED DIRECTLY BELOW IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
10. 16.(4)-4" CONDUITS FROM MDF ROOM. CONDUITS SHALL BE STUBBED UP TO 4" ABOVE FINISHED FLOOR AND SHALL BE NO FURTHER THAN 4" FROM WALL. COORDINATE STUB UP LOCATION WITH DIVISION 27. PROVIDE CONDUITS WITH NYLON PULL STRING AND INSULATED BUSHING.
11. REFER TO TECHNOLOGY DRAWINGS FOR COMPLETE LAYOUT AND EQUIPMENT INFORMATION.
12. PROPOSED LOCATION FOR FIRE PUMP CONTROLLER WITH INTEGRAL AUTOMATIC TRANSFER SWITCH PER DIVISION 21 SPECIFICATION. PROVIDE NORMAL POWER CONDUIT AND WIRING ORIGINATING FROM GEN SET SPECIFICATIONS AND ADDITIONAL INFORMATION. DIVISION 26 SHALL ROUTE OUTPUT CIRCUIT FROM CONTROLLER AND TERMINATE ON FIRE PUMP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
13. PROPOSED LOCATION FOR JOCKEY PUMP CONTROLLER PROVIDE CONDUIT AND WIRING ORIGINATING FROM GEN SET AND ROUTED THRU CONTROLLER AND TERMINATE ON JOCKEY PUMP PER MANUFACTURER INSTALLATION INSTRUCTIONS.
14. PROVIDE HUBBEL HBL25143GF215M CORD REEL AT APPROXIMATE LOCATION. ENSURE ASSOCIATED BREAKER IS TYPE GFCI.

GENERAL ELECTRICAL NOTES:

1. PROVIDE RECEPTACLE AT CEILING FOR CEILING MOUNTED PROJECTOR. COORDINATE WITH OWNER AND DIVISION 27 FOR REQUIRED DATA ROUGH-IN.
2. PROVIDE HUBELL #HBLC40123TT CORD REEL NEAR STUDENT DESK SIDE. PROVIDE DUPLEX RECEPTACLE AT CEILING NEAR BASE OF CORD REEL AND WITH BALL STOPPER ON CORD. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH INSTALLATION. TYPICAL FOR ALL CORD REELS.
3. PROPOSED LOCATION OF A MAINTAINED CONTACT EMERGENCY POWER OFF SWITCH, PROVIDE WITH A STOPPER II CLEAR COVER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. POWER TO INTERIOR LED SIGN ON LOBBY WALL. COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT.
5. PROVIDE HUBBEL FLOOR BOX MODEL #CFB2G30RCR WITH SUB-PLATES #FSMPREC & #FSMPBKS. COORDINATE DEVICE COVER/FINISH WITH ARCHITECT PRIOR TO ORDERING. TYPICAL FOR ALL FLOOR BOXES.
6. PROVIDE POWER TO OVERHEAD COILING GRILLE WITH FIRE ALARM CONTROL AND MONITORING RELAYS. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH SELECTED EQUIPMENT. PROVIDE KEYED SWITCHES FOR OPERATION ON EITHER SIDE DOOR IN CORRIDOR.
7. GROUND BUS BAR MOUNTED 64"A.F.F BY DIVISION 27.
8. RECEPTACLE MOUNTED DIRECTLY BELOW WALL MOUNTED IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
9. PROVIDE L6-30R TWIST LOCK RECEPTACLE MOUNTED DIRECTLY BELOW IT CABINET. COORDINATE EXACT LOCATION WITH DIVISION 27.
10. 16.(4)-4" CONDUITS FROM MDF ROOM. CONDUITS SHALL BE STUBBED UP TO 4" ABOVE FINISHED FLOOR AND SHALL BE NO FURTHER THAN 4" FROM WALL. COORDINATE STUB UP LOCATION WITH DIVISION 27. PROVIDE CONDUITS WITH NYLON PULL STRING AND INSULATED BUSHING.
11. REFER TO TECHNOLOGY DRAWINGS FOR COMPLETE LAYOUT AND EQUIPMENT INFORMATION.
12. PROPOSED LOCATION FOR FIRE PUMP CONTROLLER WITH INTEGRAL AUTOMATIC TRANSFER SWITCH PER DIVISION 21 SPECIFICATION. PROVIDE NORMAL POWER CONDUIT AND WIRING ORIGINATING FROM GEN SET SPECIFICATIONS AND ADDITIONAL INFORMATION. DIVISION 26 SHALL ROUTE OUTPUT CIRCUIT FROM CONTROLLER AND TERMINATE ON FIRE PUMP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
13. PROPOSED LOCATION FOR JOCKEY PUMP CONTROLLER PROVIDE CONDUIT AND WIRING ORIGINATING FROM GEN SET AND ROUTED THRU CONTROLLER AND TERMINATE ON JOCKEY PUMP PER MANUFACTURER INSTALLATION INSTRUCTIONS.
14. PROVIDE HUBBEL HBL25143GF215M CORD REEL AT APPROXIMATE LOCATION. ENSURE ASSOCIATED BREAKER IS TYPE GFCI.
15. PROVIDE LIGHTING CONTACTOR PANEL FOR EXTERIOR/CORRIDOR FIXTURES. PROVIDE FIXTURES WITH UL1008 DEVICE. REFERENCE SHEET E5.01 FOR ADDITIONAL INFORMATION.

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TBPE Firm Registration No. 2234
DBR Project#: 254026.000
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07/02/2026

HARMONY PUBLIC SCHOOLS

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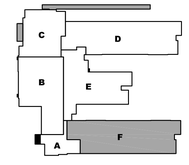


KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

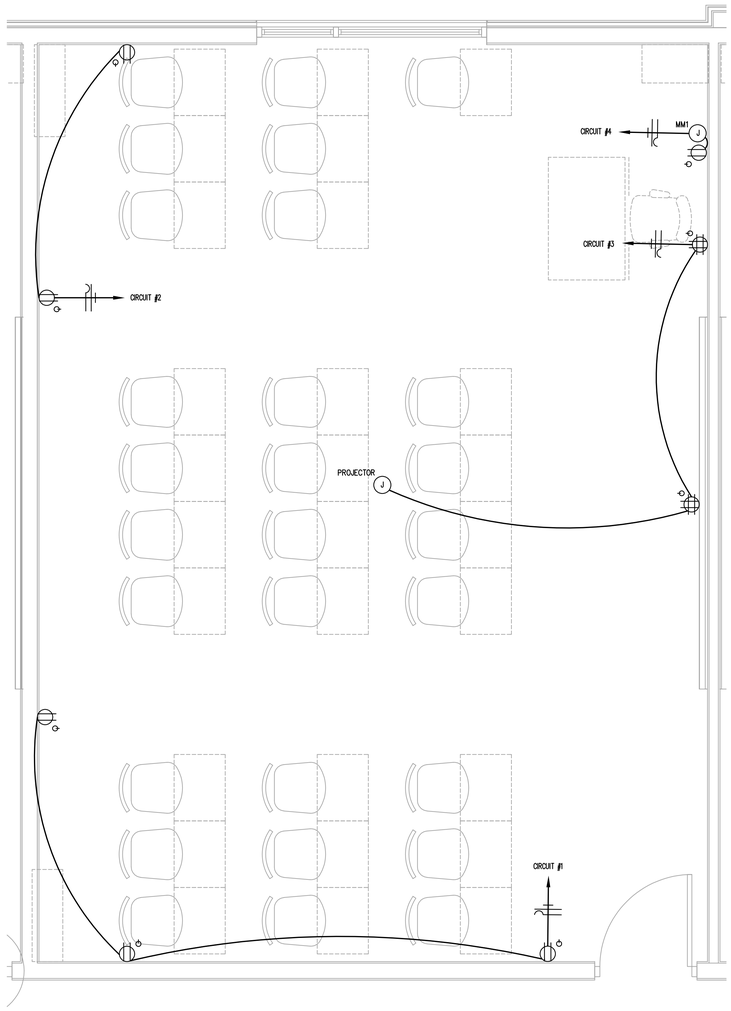
Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL POWER PLAN - AREA F

EP2.11F



1 EP3.01 ENLARGED ELECTRICAL POWER PLAN LEVEL 1
1/2" = 1'-0"

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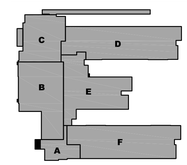

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

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ENLARGED ELECTRICAL POWER PLAN LEVEL 1

EP3.01

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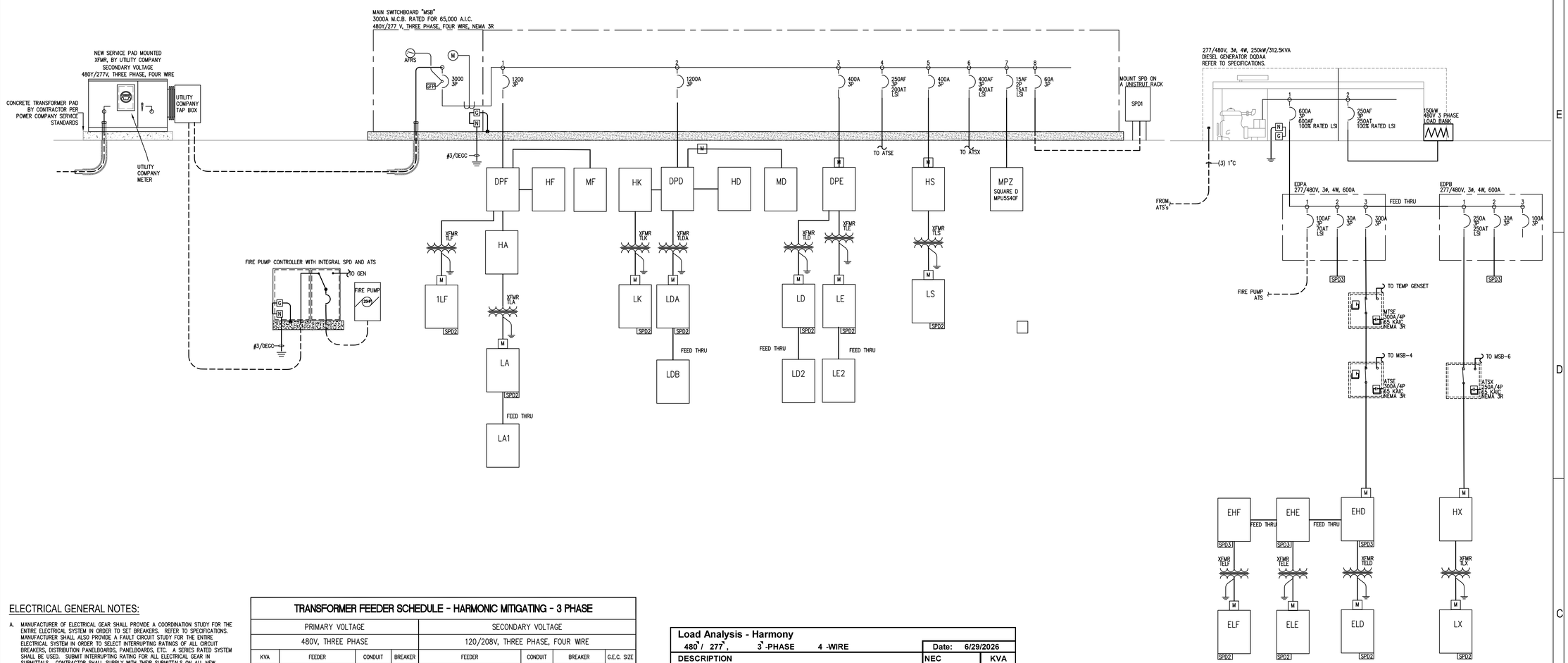

ELECTRICAL GENERAL NOTES:

A. MANUFACTURER OF ELECTRICAL GEAR SHALL PROVIDE A COORDINATION STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SET BREAKERS. REFER TO SPECIFICATIONS. MANUFACTURER SHALL ALSO PROVIDE A FAULT CIRCUIT STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SELECT INTERRUPTING RATINGS OF ALL CIRCUIT BREAKERS, DISTRIBUTION PANELBOARDS, PANELBOARDS, ETC. A SERIES RATED SYSTEM SHALL BE USED. SUBMIT INTERRUPTING RATING FOR ALL ELECTRICAL GEAR IN SUBMITTALS. CONTRACTOR SHALL SUPPLY WITH THEIR SUBMITTALS ON ALL NEW EQUIPMENT THE MANUFACTURER'S UL DATA LISTING THE SERIES RATING OF ALL EQUIPMENT. THIS SWITCHBOARD AND ALL NEW EQUIPMENT CONNECTED DOWNSTREAM SHALL BEAR LABELS INDICATING "SERIES RATED EQUIPMENT" ON THEIR EXTERIOR AS SPECIFIED IN THE SPECIFICATIONS. CONTRACTOR SHALL INSTRUCT MANUFACTURER TO INCLUDE IN THEIR SUBMITTALS ALL TRIP CURVES AND ALL LITERATURE INDICATING THE INTERRUPTING RATING CHARACTERISTICS OF EQUIPMENT BEING SUPPLIED.

B. A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.

C. ALL WIRING SHALL BE THHN/THWN COPPER UNLESS NOTED OTHERWISE.

D. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND CONDUIT AS REQUIRED BY UTILITY COMPANY FOR METERING PURPOSES.

E. FEEDERS SERVING PANELBOARDS SHALL BE SIZED PER CIRCUIT BREAKER RATING.

F. PROVIDE PANELBOARD WITH INDICATED 3-PHASE KWH INTEGRAL METER WITH BACNET INTERFACE. CONTRACTOR SHALL PROVIDE DATA CABLE TO NETWORK METERS TOGETHER. MONITORING SOFTWARE SHALL BE CONFIGURED TO PROVIDE ENERGY USAGE DATA COMPLYING IECC 2021 METERING REQUIREMENTS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE SHARK ENCMP200 FOR MULTI CIRCUIT METERING APPLICATIONS.

G. THIS PROJECT USES IECC 2021 AS AN ENERGY CODE. CONTRACTOR SHALL PROVIDE A MULTIMETER TO METER INTERIOR LIGHTING, EXTERIOR LIGHTING, ALL HVAC, WATER HEATERS AND RECEPTACLES. PROVIDE CABLE TO NETWORK METERS TOGETHER. CONNECT ALL METERS TO THE BUILDING AUTOMATION SYSTEM (BAS). THE BAS SHALL MONITOR THIS METERING INFORMATION AND STORE ALL DATA FOR 3 YEARS.

ONE-LINE DIAGRAM KEYED NOTES:

1. CONNECT GROUNDING ELECTRODE CONDUCTOR TO MAIN GROUND BUS. REFER TO DETAILS.
2. APPROXIMATE DISTANCE FROM PANEL LC1 IS 200' PROVIDE FEEDERS CONDUCTORS FOUR (4)#4 ONE (1)#1G IN A 1 #C FOR VOLTAGE DROP COMPENSATION.
3. PROVIDE NEW FEEDERS PER FEEDER SCHEDULE TO NEW BUS WASHING EQUIPMENT.
4. THE FOLOWING EQUIPMENT SHALL INCLUDE AN ARC FAULT REDUCTION SWITCH.

TRANSFORMER FEEDER SCHEDULE - HARMONIC MITIGATING - 3 PHASE

PRIMARY VOLTAGE				SECONDARY VOLTAGE			
480V, THREE PHASE				120/208V, THREE PHASE, FOUR WIRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	G.E.C. SIZE
15	3#10, 1#10G.	3/4"	25A/3P	3#6, 1#4N, 1#6G.	1"	60A/3P	#8
30	3#8, 1#10G.	1"	45A/3	3#3, 1#1/0N, 1#6G.	1 1/4"	100A/3P	#8
45	3#4, 1#8G.	1"	70A/3P	3#1/0, 1#4/0N, 1#6G.	2"	150A/3P	#6
75	3#1, 1#6G.	1 1/4"	125A/3P	3#250, 2#3/0N, 1#2G.	3"	250A/3P	#2
112.5	3#2/0, 1#6G.	1 1/2"	175A/3P	3#600, 2#300N, 1 #1/0G.	4"	400A/3P	#1/0

NOTE:
-ALL CONDUCTORS SHALL BE COPPER

TRANSFORMER SCHEDULE

MARK	KVA	PRIMARY	SECONDARY	MOUNTING	RATING	REMARKS
TLA	75	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 0 DEGREES PHASE SHIFT
TLD	75	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 20 DEGREES PHASE SHIFT
TLDA	75	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 40 DEGREES PHASE SHIFT
TLE	75	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 0 DEGREES PHASE SHIFT
TLF	45	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 20 DEGREES PHASE SHIFT
TLK	75	480V.	120/208V., 3PH., 4W.	PAD	GENERAL, DRY-TYPE	GENERAL PURPOSE
TLS	45	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 40 DEGREES PHASE SHIFT
TLX	45	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 0 DEGREES PHASE SHIFT
TELD	15	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 20 DEGREES PHASE SHIFT
TELE	15	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 40 DEGREES PHASE SHIFT
TELF	15	480V.	120/208V., 3PH., 4W.	PAD	HARMONIC, DRY-TYPE	PQI DV SERIES, 0 DEGREES PHASE SHIFT

NOTE:
-PROVIDE ALL TRANSFORMERS WITH ALUMINUM WINDING, UNLESS NOTED OTHERWISE.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

MARK	MANUFACTURER	MODEL	VOLTAGE	PHASE	SURGE RATING PER MODE	BREAKER SIZE	TIERGUIDE CABLE SIZE
SPD-1	SOUTHERN TIER TECHNOLOGIES	T452771Y125ALAM1C	480/277	3	125/250KA	60A/3P	5 #6, 1 1/2" C.
SPD-2	SOUTHERN TIER TECHNOLOGIES	T45120Y100AWAJ2S	208/120	3	100/200KA	30A/3P	INCLUDED
SPD-3	SOUTHERN TIER TECHNOLOGIES	T452771Y100AWAJ2S	480/277	3	100/200KA	30A/3P	INCLUDED

*ALL T45 SERIES SPD ENCLOSURES INSTALLED IN FOOD SERVICE AREAS (IE. KITCHENS, SNACK BARS, FOOD LABS, CULINARY ARTS ROOMS AND LIFE SKILLS ROOMS) SHALL BE RECESSED IN THE WALL. PROVIDE RECESSED WALL KIT #RKSS.

Load Analysis - Harmony

480°/ 277°, 3°-PHASE 4 -WIRE — Date: 6/29/2026

DESCRIPTION					NEC	KVA
LIGHTING:						
INTERIOR =	78,983	S.F. X	3.0	W/S.F.	220.12	236.9
EXTERIOR =	10,000	VA				10.0
POWER:						
RECEPTACLES =	157,992	VA				158.0
MISCELLANEOUS =	78,983	S.F. X	3.0	W/S.F.		236.9
		QUANTITY				
KITCHEN =	171,468	VA				171.5
MDF/IDF's	50	KVA				50.0
						0.0
HVAC:						
COOLING =	969,045	VA			220.60	969.0
HEATING =	0	VA			220.60	0.0
FANS=	33,000.0	VA				33.0
25% LARGEST MOTOR =	10,000	VA				10.0
PLUMBING:						
WATER HEATER =	96,000	VA				96.0
DRINKING FOUNTAIN =	5,000	VA				5.0
CIRCULATING PUMP =	600	VA				0.6
					TOTAL =	1977.0
					TOTAL AMPS:	2378.0
SQUARE FOOTAGE = 78,983					SERVICE SIZE:	4000.0
					SPARE AMPACITY	1622.0

Generator Load Analysis - Harmony

480 / 277 , 3 -PHASE 4 -WIRE

DESCRIPTION			NEC	KVA
LIGHTING:				
INTERIOR =	0.5VA/SF X	78,983		39.4915
EXTERIOR=	3000	VA		3
POWER:				
KITCHEN FREEZER/COOLER=	30000	VA		30
FIRE PUMP	28233	VA		28.233
SPARE CAPACITY				
25% SPARE CAPACITY REQUIRED BY OWNER:				25.18113
			TOTAL =	125.9056
Square footage:	78,983		TOTAL AMPS:	149.8876
			GEN SIZE (KW)	250
			GEN SIZE (KVA)	312.5
			LOAD FACTOR	40.29%

FEEDER SCHEDULE
COPPER ONLY

RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	4#10, 1#10 G.	3/4"
40A	1	4#8, 1#10 G.	1"
50A	1	4#8, 1#10 G.	1"
60A	1	4#6, 1#10 G.	1"
70A	1	4#4, 1#8 G.	1 1/4"
80A	1	4#4, 1#8 G.	1 1/4"
90A	1	4#3, 1#8 G.	1 1/4"
100A	1	4#3, 1#8 G.	1 1/4"
125A	1	4#1, 1#6 G.	1 1/2"
150A	1	4#1/0, 1#6 G.	1 1/2"
175A	1	4#2/0, 1#6 G.	2"
200A	1	4#3/0, 1#6 G.	2"
225A	1	4#4/0, 1#4 G.	2 1/2"
250A	1	4#250, 1#4 G.	2 1/2"
300A	1	4#350, 1#4 G.	3"
350A	1	4#500, 1#3 G.	3 1/2"
400A	1	4#600, 1#3 G.	4"
450A	2	4#4/0, 1#2 G.	2 1/2"
500A	2	4#250, 1#2G.	2 1/2"
600A	2	4#350, 1#1G.	3"
700A	2	4#500, 1#1/0G.	4"
800A	2	4#600, 1#1/0G.	4"
1000A	3	4#500, 1#2/0G.	4"
1200A	4	4#350, 1#3/0G.	3"
1600A	4	4#600, 1#4/0G.	4"
	5	4#500, 1#4/0G.	4"
2000A	5	4#600, 1#250G.	4"
	6	4#500, 1#250G.	4"
2500A	6	4#600, 1#350G.	4"
	7	4#500, 1#350G.	4"
3000A	8	4#500, 1#400G.	4"
3500A	9	4#600, 1#500G.	4"
	10	4#500, 1#500G.	4"
4000A	10	4#600, 1#500G.	4"
	11	4#500, 1#500G.	4"
5000A	12	4#600, 1#750G.	4"
	14	4#500, 1#750G.	4"

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
2. GROUND NOT REQUIRED AT SERVICE LATERAL.

1-PHASE 3-WIRE FEEDER SCHEDULE
COPPER ONLY

RATING	SETS	CONDUCTOR SIZE	CONDUIT
30A	1	3#10, 1#10 G.	3/4"
40A	1	3#8, 1#10 G.	3/4"
50A	1	3#8, 1#10 G.	3/4"
60A	1	3#6, 1#10 G.	1"
70A	1	3#4, 1#8 G.	1"
80A	1	3#4, 1#8 G.	1"
90A	1	3#3, 1#8 G.	1 1/4"
100A	1	3#3, 1#8 G.	1 1/4"
125A	1	3#1, 1#6 G.	1 1/4"
150A	1	3#1/0, 1#6 G.	1 1/2"
175A	1	3#2/0, 1#6 G.	1 1/2"
200A	1	3#3/0, 1#6 G.	2"
225A	1	3#4/0, 1#4 G.	2"
250A	1	3#250, 1#4 G.	2 1/2"
300A	1	3#350, 1#4 G.	2 1/2"
350A	1	3#500, 1#3 G.	3"
400A	1	3#600, 1#3 G.	3 1/2"
450A	2	3#4/0, 1#2 G.	2"
500A	2	3#250, 1#2G.	2 1/2"
600A	2	3#350, 1#1G.	3"
700A	2	3#500, 1#1/0G.	3 1/2"
800A	2	3#600, 1#1/0G.	3 1/2"
1000A	3	3#500, 1#2/0G.	3"
1200A	4	3#350, 1#3/0G.	3"
1600A	4	3#600, 1#4/0G.	3 1/2"
	5	3#500, 1#4/0G.	3"
2000A	5	3#600, 1#250G.	3 1/2"
	6	3#500, 1#250G.	3"
2500A	6	3#600, 1#350G.	3 1/2"
	7	3#500, 1#350G.	3 1/2"
3000A	8	3#500, 1#400G.	3 1/2"
3500A	9	3#600, 1#500G.	3 1/2"
	10	3#500, 1#500G.	3 1/2"
4000A	10	3#600, 1#500G.	3 1/2"
	11	3#500, 1#500G.	3 1/2"

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
2. GROUND NOT REQUIRED AT SERVICE LATERAL.

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07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
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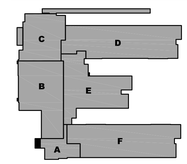

KEYPLAN

Project Number: 24.23
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Sheet Title:

ELECTRICAL ONE-LINE DIAGRAMS

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TBPE Firm Registration No. 2234
DBR Project# 254026.000
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E4.01

LIGHTING CONTROLS COMMISSIONING

THE CONTRACTOR SHALL INCLUDE, AS PART OF THEIR SCOPE, THE REQUIREMENTS TO COMMISSION THE LIGHTING CONTROL SYSTEM, AS REQUIRED BELOW. THE LIGHTING CONTROL SYSTEM MAY BE STAND–ALONE, NETWORK, RELAY, CONTACTOR OPERATED, TIMER, PHOTOCELL, OR ANY COMBINATION OF THESE MSTED. FOR EACH OF THE FOLLOWING TASKS, RECORD THE DATE PERFORMED, PERSON(S) COMPLETING THE VERIFICATION, INTIAL SETTING/CONDITION, ACTIONS PERFORMED, AND, FINAL SETTING CONDITION. SUBMIT DOCUMENTATION TO THE CITY HAVING JURISDICATION AT OR BEFORE
SUBSTANTION COMPLETION. SUBMITTING AFTER SUBSTANTION COMPLETION WILL DELAY THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

A. ENSURE ALL LIGHTING FIXTURES HAVE LAMPS THAT ARE FUNCTIONAL
B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY TRANSFER
DEVICES OR CENTRAL BATTERY SYSTEM.
C. VERIFY THAT ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONS.
D. TEST ALL WALL–SWITCH OCCUPANCY SENSORS
E. TEST ALL DIGITAL/LOW VOLTAGE SWITCHES AND THEIR PERIPHERALS, WHERE INSTALLED, SUCH AS:
E.1. CEILING MOUNTED OCCUPANCY SENSORS
E.2. POWER PACKS
E.3. DAYLIGHT SENSING/HARVESTING SENSORS
F. VERIFY THE FOLLOWING FUNATIONALITY AND/OR INSTALLATION OF ALL CONTROL DEVICES:
F.1. SENSORS HAVE BEEN LOCATED AND AIMED TO RELEVANT LOCATIONS OF OCCUPANCY, PER MANUFACTURERS RECOMMENDATION
F.2. VERIFY STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT
F.3. DEVICES CONTROL LIGHTING FIXTURES AS SPECIFIED ON THE DRAWINGS
F.4. ALL OCCUPANCY/VACANCY MODE TIME–OUTS ARE SET TO NO GREATER THAN 30 MINUTES.
F.5. ALL CONTROL DEVICES ARE SET VACANCY MODE, OR NO MORE THAN 50% OF FIXTURES TURN ON AUTOMATICALLY UPON ENTERING A SPACE/ROOM.
F.6. MOVEMENT IN ADJACENT SPACES OR CYCLING OF HVAC SYSTEMS DOES NOT FALSELY TRIGGER SENSORS. (VACANCY MODE PREFERRED TO PREVENT THIS) SHOULD ADDITIONAL INFORMATION REGARDING THE TESTING REQUIREMENTS BE NEEDED, REFERENCE IECC 2015 SECTION 408.3

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
$\$^{3,4}$	LINE VOLTAGE SWITCH.	"3" INDICATES THREE WAY SWITCHING. "4" INDICATES FOUR WAY SWITCHING. "K" INDICATES SWITCH SHALL BE KEYED SWITCH.
$\$^{MC}$	LINE VOLTAGE MOMENTARY CONTACT SWITCH.	
$\$^{DR}$	LINE VOLTAGE DIMMER SWITCH	DIMMER FOR USE IN DWELLING UNIT. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY.
$\$^{3,D}$	LINE VOLTAGE DIMMER WITH 3–WAY SWITCH.	3–WAY DIMMER FOR USE IN DWELLING UNIT. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY.
$\$^{F}$	MULTI–SPEED FAN CONTROLLER WITH LINE VOLTAGE SWITCH.	
$\$^{T}$	LINE VOLTAGE TIMER SWITCH WITH DIGITAL TIMER.	RATED FOR 120/277VAC. PROVIDE WITH AUDIBLE & VISUAL ALERTS. USER PROGRAMMABLE FOR 5MIN–12HR TIME–OUT SETTINGS.
$\$^{OC1}$	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
$\$^{OC2}$	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
$\$^{OCD}$	LOW VOLTAGE OC SENSOR SWITCH WITH 0–10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
$\$^{LLLMC}$	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI–BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. "K" INDICATES SWITCH SHALL BE KEYED SWITCH.
$\$^{TBLORK}$	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO RELAY PANEL OR TIME CLOCK FOR TIME OF DAY OVERRIDE AS NOTED ON PLANS. PROVIDE MULTI–BUTTON SWITCH AS NOTED ON PLANS. "K" INDICATES SWITCH SHALL BE KEYED SWITCH.
$\$^{D}$	LOW VOLTAGE SWITCH WITH 0–10V DIMMER	PROVIDE MULTI–BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN OR PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC3	CEILING MOUNTED ULTRASONIC OR MICROPHONIC OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC4	CORNER MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC5	WET LOCATION PIR OCCUPANCY SENSOR.	CONNECT GARAGE OCCUPANCY SENSORS TO RELAY PANEL SERVING AREA. PROVIDE POWER PACKS FOR CONTROL WHERE NOT LOCATED IN THE GARAGE.
OC6	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR FOR HIGH BAY APPLICATION.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
PC	DIGITAL PHOTOSENSOR	CONNECT TO ROOM CONTROLLER OR RELAY PANEL AS NOTED ON PLANS.
DS	DAYLIGHT HARVESTING SENSOR	CONNECT TO ROOM CONTROLLER OR INDIVIDUAL LIGHT FIXTURE FOR DAYLIGHT HARVESTING DIMMING CONTROL.

NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTACTOR SCHEDULE

MARK	ROOM / AREA DESCRIPTION	CIRCUIT #
HD -1	SITE LIGHTS	HD-61
HF -1	SITE LIGHTS	HF-59
HA -1	SITE LIGHTS	HA-8
HA -2	SITE LIGHTS	HA-10
HF -2	EXTERIOR LIGHTS	HF-57
HA -3	EXTERIOR LIGHTS	HA-26
HD -2	EXTERIOR LIGHTS	HD-69
HD -3	EXTERIOR LIGHTS	HD-57
HD -4	EXTERIOR LIGHTS	HD-59
HE -1	EXTERIOR LIGHTS	DPE-8
HF -3	CORRIDOR LIGHTS	HF-53
HA -4	CORRIDOR LIGHTS	HA-22
HE -2	CORRIDOR LIGHTS	DPE-6
HD -5	CORRIDOR LIGHTS	HD-63
HD -6	CORRIDOR LIGHTS	HD-55
HD -7	CORRIDOR LIGHTS	HD-63
HD -8	CORRIDOR LIGHTS	HD-55
HA -5	FLAGPOLE LIGHT	HA-24
HS -1	SPORTS LIGHTING	HS-15,17
HS -2	SPORTS LIGHTING	HS-16,18
HS -3	SPORTS LIGHTING	HS-21,23
HS -4	SPORTS LIGHTING	HS-22,24
0 -23	SPARE	
0 -24	SPARE	
0 -25	SPARE	
0 -26	SPARE	
0 -27	SPARE	
0 -28	SPARE	
0 -29	SPARE	
0 -30	SPARE	
0 -31	SPARE	
0 -32	SPARE	

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/MODEL NO.	SUPPLY	DIM	WATTS	TEMP	COLOR	MOUNTING	NOTES	DESCRIPTION
A1	METALUX 24C22-60-S-UNV-L835-CD1-U	UNV	0-10V	46W	35K	WHT	CEILING RECESSED		2' X 4' RECESSED TROFFER
A1E	METALUX 24C22-60-S-EL14W-UNV-L835-CD1-U	UNV	0-10V	46W	35K	WHT	CEILING RECESSED	1	2' X 4' RECESSED TROFFER WITH BATTERY BACK UP
B1	METALUX 22C22-60VHE-S-UNV-L835-CD1-U	UNV	0-10V	42W	35K	WHT	CEILING RECESSED		2' X 2' RECESSED TROFFER
B1E	METALUX 22C22-60VHE-S-EL14W-UNV-L835-CD1-U	UNV	0-10V	42W	35K	WHT	CEILING RECESSED	1	2' X 2' RECESSED TROFFER WITH BATTERY BACK UP
C21	NEORAY S123DR-S560840-FSR21F0-1-UDD-F-W	UNV	0-10V	101W	35K	WHT	CEILING RECESSED		21' RECESSED PERIMETER LIGHT
C23	NEORAY S123DR-S560840-FSR23F0-1-UDD-F-W	UNV	0-10V	110W	35K	WHT	CEILING RECESSED		23' RECESSED PERIMETER LIGHT
C23E	NEORAY S123DR-S560840-FSR23F0-1B2-UDD-F-W	UNV	0-10V	110W	35K	WHT	CEILING RECESSED	1	23' RECESSED PERIMTER LIGHT WITH BATTERY BACK UP
C25E	NEORAY S123DR-S560840-FSR25F0-1B2-UDD-F-W	UNV	0-10V	120W	35K	WHT	CEILING RECESSED	1	25' RECESSED PERIMETER LIGHT WITH BATTERY BACK UP
C28E	NEORAY S123DR-S560840-FSR28F0-1B2-UDD-F-W	UNV	0-10V	134W	35K	WHT	CEILING RECESSED	1	28' RECESSED PERIMTER LIGHT WITH BATTERY BACK UP
C29E	NEORAY S123DR-S560840-FSR29F0-1B2-UDD-F-W	UNV	0-10V	139W	35K	WHT	CEILING RECESSED	1	29' RECESSED PERIMTER LIGHT WITH BATTERY BACK UP
C47-6E	NEORAY S123DR-S560840-FSR47F6-1B2-UDD-F-W	UNV	0-10V	228W	35K	WHT	CEILING RECESSED	1	47' RECESSED PERIMTER LIGHT WITH BATTERY BACK UP
C48E	NEORAY S123DR-S560840-FSR48F0-1B2-UDD-F-W	UNV	0-10V	230W	35K	WHT	CEILING RECESSED	1	48' RECESSED PERIMTER LIGHT WITH BATTERY BACK UP
C56-6E	NEORAY S123DR-S560840-FSR56F6-1B2-UDD-F-W	UNV	0-10V	271W	35K	WHT	CEILING RECESSED	1	56' RECESSED PERIMTER LIGHT WITH BATTERY BACK UP
D1	ATLANTIC COMA-SYL20-35-U / 4CMFR-HZ	UNV	0-10V	17W	35K	HAZE	CEILING RECESSED		4" ROUDN RECESSED DOWNLIGHT
D1E	ATLANTIC COMA-SYL20-35-U-LEM / 4CMFR-HZ	UNV	0-10V	17W	35K	HAZE	CEILING RECESSED	1	4" ROUND RECESSED DOWNLIGHT WITH BATTERY BACK UP
D3	ATLANTIC LED4ADJ-VR20-35K-2 / 4LADJ-HZ-B40	UNV	0-10V	20W	35K	HAZE	SLOPED CEILING RECESSED		4" ROUND SLOPED DOWNLIGHT
D3E	ATLANTIC LED4ADJ-VR20-35K-2-LEM / 4LADJ-HZ-B40	UNV	0-10V	20W	35K	HAZE	SLOPED CEILING RECESSED	1	4" ROUND SLOPED DOWNLIGHT WITH BATTERY BACK UP
F1	TECHLIGHT DLS-4-N-7L-VWD-1-(G10)	UNV	0-10V	43W	35K	WHT	SURFACE/PENDANT	2	4' LENSED STRIP LIGHT
F1E	TECHLIGHT DLS-4-N-7L-VWD-1-HOEB-(G10)	UNV	0-10V	43W	35K	WHT	SURFACE/PENDANT	1,2	4' LENSED STRIP LIGHT WITH BATTERY BACK UP
G24	CAMMAN P1044-24-35K-CLB-MV-MW-CBA-ACM-OAHXX'	UNV	0-10V	115W	35K	CBA	CEILING PENDANT	2	2' ROUND LOW PROFILE PENDANT
G36	CAMMAN P1044-36-35K-CLB-MV-MW-CBA-ACM-OAHXX'	UNV	0-10V	170W	35K	CBA	CEILING PENDANT	2	3' ROUND LOW PROFILE PENDANT
G48	CAMMAN P1044-48-35K-CLB-MV-MW-CBA-ACM-OAHXX'	UNV	0-10V	235W	35K	CBA	CEILING PENDANT	2	4' ROUND LOW PROFILE PENDANT
H1	TECHLIGHT HOLH-2D-4D-31L-VWD-1-10IC-HOG2	UNV	0-10V	213W	35K	WHT	BOTTOM OF JOIST		HIGH BAY
H1E	TECHLIGHT HOLH-2D-4D-31L-VWD-1-10IC-HOG2-HOEB	UNV	0-10V	213W	35K	WHT	BOTTOM OF JOIST	1	HIGH BAY WITH BATTERY BACK UP
K1	HALO HCCS6-2D-D010-CBA / HM6C052S835 / 61MDH /HCAC120MW	UNV	0-10V	21W	35K	CBA	PENDANT	2	6" CYLINDER DOWNLIGHT
L8	NEORAY S123DP-C560D835-C4JB8F0-1-UDD-F-CBA	UNV	0-10V	38W	35K	CBA	CEILING PENDANT	2	8' SUSPENDED DOWNLIGHT
L18E	NEORAY S123DP-C560D835-C4JB18F0-1B2-UDD-F-CBA	UNV	0-10V	86W	35K	CBA	CEILING PENDANT	1,2	18' SUSPENDED LIGHT WITH BATTERY BACK UP
L24E	NEORAY S123DP-C560D835-C4JB24F0-1B2-UDD-F-CBA	UNV	0-10V	115W	35K	CBA	CEILING PENDANT	1,2	24' SUSPENDED LIGHT WITH BATTERY BACK UP
L28E	NEORAY S123DP-C560D835-C4JB28F0-1B2-UDD-F-CBA	UNV	0-10V	134W	35K	CBA	CEILING PENDANT	1,2	28' SUSPENDED LIGTH WITH BATTERY BACK UP
S1	MCGRAW EDISON GALN-SA6D-735-U-T2R-CBA-AHD145-BPC-HSS / ULS RTS-30-6511-AB-D1-CBA	UNV	0-10V	368W	35K	CBA	POLE		SINGLE AREA LIGHT
S2	MCGRAW EDISON GALN-SA6D-735-U-T4FT-CBA-AHD145-BPC-HSS / ULS RTS-30-6511-AB-D1-CBA	UNV	0-10V	368W	35K	CBA	POLE		SINGLE AREA LIGHT
S3-2	MCGRAW-EDISON GALN-SA6D-735-U-T4W-CBA-AHD145-BPC / ULS RTS-30-6511-AB-D2@180-CBA	UNV	0-10V	368W	35K	CBA	POLE		DOUBLE AREA LIGHT 180 DEGREE
S4-2	MCGRAW-EDISON GALN-SA8C-735-U-T4FT-CBA-AHD145-BPC / ULS RTS-20-5211-AB-D2@90-CBA	UNV	0-10V	429W	35K	CBA	POLE		DOUBLE AREA LIGHT 90 DEGREE
S5	LUMARK NFFLD-C25-E-UNV-66-S-BZ-PER-OA/RA1016	UNV	0-10V	85W	40K	BRONZE	FLOODLIGHT		FLOOD LIGHT
NEMA 2	USR2800GXX70N21GC	UNV	0-10V	770W		WHT	POLE	4	UNISTRUT FLOOD LIGHT
NEMA 3	USR2800GXX70N31GC		0-10V	770W		WHT	POLE	4	UNISTRUT FLOOD LIGHT
NEMA 4	USR2800GXX70N41GC		0-10V	770W		WHT	POLE	4	UNISTRUT FLOOD LIGHT
T1	HALO L8D916WF935MB277	120		14W	35K	BLACK	TRACK SUSPENDED	2,3	3' TRACK LIGHT
W1	MCGRAW-EDISON IST-SA1C-740-U-T3-CBA-SPB2	UNV	0-10V	34W	35K	CBA	EXT WALL		EXTERIOR WALL PACK
X	SURE-LITES EUX7RSD	UNV					WALL/CEILING	1	EXIT LIGHT
EM	SURE-LITES SELW25CBA	UNV					WALL	1	EGRESS WALL PACK

NOTES
1. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT
2. COORDINATE INDIVIDUAL TRACK LENGTHS WITH WITH ARCHITECT
3. INDIVIDUAL CHM FIXTURES MAKE UP THE LUMEN PROJECTION OF EACH INDIVIDUAL POLE LIGHT. COORDINATE WITH CHM DRAWINGS PRIOR TO ORDERING.
4. ALL LIGHTING FIXUTRE COLOR FINISHES/PATTERNS MUST BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURERS FULL RANGE. THE GENERAL CONTRACTOR IS TO CONFIRM ALL COLORS. WITH THE ARCHITECT PRIOR TO ORDERING
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE COMPATIBILITY BETWEEN THE CEILING TYPE, AS DEFINED ON THE ARCHITECTURAL ROOM FINISH SCHEDULE AND THE LIGHT FIXTURE TRIM AS DEFINED ON THE LIGHT FIXTURE SCHEDULE.

2018 IECC STANDARD SEQUENCE OF OPERATIONS

v0.2 - 01022019

ROOM TYPE	OCCUPANCY SENSOR	TIME SWITCH	DAYLIGHT CTL	LT REDUCT	MANUAL CONTROL	SEQUENCE OF OPERATION	DLM Wired Wiring Example	CODE SOLUTIONS WEB SITE DLM Wired Wiring Example	ALL WIRING EXAMPLES PDF DLM Wired Wiring Example
Spaces (≤ 300 sq ft)	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	2 Zone Switching	2 Zone Dimming	1zone Dimming
Enclosed Offices	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	1 Zone Dimming	2 Zone Dimming w/plug	2 Zone Dimming DLT
Open Plan Office Areas ≤600SqFt zones	50% 20 min		D	● D	● D ●	Auto On 50%; Occupancy sensor Auto Off. Manaul control and ≥50% light reduction with two on/off controls. Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	2 Zone Dimming	3 Zone Dimming	4 Zone Dimming
Class/Lecture/Training Room	50% 20 min		D	● D	● D ●	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	3 Zone Dimming DLT	4 Zone Dimming	6 Zone Dimming DLT&AV
Conference/Meeting Room	50% 20 min		D	● D	● D ●	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	3 Zone Dimming	5 Zone Dimming DLT&AV	
Copy/Print Room	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	1 Zone Dimming	1 Zone Dimming 2 Switch	
Electrical/Mech/Equip Room	● 20 min			●		Manual On; Occupancy sensor Auto Off. Manual control device.	1 Zone Switching Wall Box	1 Zone Dimming	1 Zone Switching
Janitor Closet	● 20 min			●		Manual On; Occupancy sensor Auto Off. Manual control device.	1 Zone Switching Wall Box	1 Zone Dimming	1 Zone Switching
Restroom	100% 20 min			●		Auto On 100%. Occupancy sensor Auto Off. Manual control	1 Zone Switching Wall Box	2 Zone Switching	2 Zone Dimming & Fan
Lunch/Break Rooms/Lounges	50% 20 min		D	● D	● D ●	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	3 Zone Switching	1 Zone Switching	
Corridor	100% 20 min		D	D	● D ●	Auto On 100%. Occupancy sensor Auto Off. Manual control device; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	Relay Panel Sensors and Switches	2 Zone Dimming	4 Zone Dimming DLT
Stairwell	100% 20 min		D	D	● D	Auto On 100%; Occupancy sensor Auto Off. Manual control. Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	1 Zone Dimming With DLT	1 Zone Dimming Mulit Level	
Storage Room	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	1 Zone Switching Wall Box	1 Zone Dimming	1 Zone Switching
Cafeteria / Gym	● 11 PM		D	● D	● D	Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where ≥150W in daylight area, continuous dimming daylighting control with dimmer switch.	4 Zone Dimming with DLT	9 Zone Dimming	7 Zone Dimming and Switching
Multipurpose Rooms	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	9 Zone Dimming		
Locker Room	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	4 Zone Switching	2 Zone Switching	
Lab	50% 20 min		D	● D	● D	Auto On 50%; Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off switches. Where ≥150W in daylight area, use continuous dimming daylighting control and dimmer switch.	6 Zone Dimming DLT&AV		
Warehouse Aisle (Racks)	50% 50% 20 min 20 min	open close	D	● D	●	Time On 50%. Occupancy sensor Partial Off ≥50%; Manual control device; After hour occupancy sensor Auto On/Off; Where ≥150W in daylight area, continuous dimming daylighting control.	18 Zone Dimming with DLT and Time Clock		
Warehouse Open Area	50% 50% 20 min 20 min	open close	D	● D	●	Time On 50%. Occupancy sensor Partial Off ≥50%; Local control device; After hour occupancy sensor Auto On/Off; Where ≥150W in daylight area, continuous dimming daylighting control.	6 Zone Dimming	9 Zone Dimming with DLT	18 Zone Dimming with DLT and Time Clock
Restaurant / Dining	close	D		D	●	Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where ≥150W in daylight area, continuous dimming daylighting control with dimmer switch.	9 Zone Dimming with Time Clock	4 Zone Dimming with Time Clock	
Building Façade / Landscape (Decorative)	open close ●	Dusk Auto On with astro time switch or photocell; Evening Time Auto Off no later than one hour after business close. Morning Time Auto On no earlier than one hour before business open; Dawn Auto Off.	4 zone Dimming with Time Clock		
Exterior / Parking Lots / Site Lighting (Setback)	6AM[1] 12:00 AM[2] ●	Dusk Auto On with astro time switch or photocell; Reduce at least 30% from midnight or up to one hour after business close. Auto On to full at 6:00AM or up to one hour before business open. Dawn Auto Off.	4 zone Dimming with Time Clock		
Parking Garage	open close	Time On 100% when open. Time Off when closed.	4 zone Dimming with Time Clock		

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Phone: 210-698-7887

FOOD SERVICE DESIGN:
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RYAN G. MILLER
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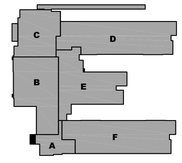
PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025
Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL SCHEDULES

E4.02

Panelboard DPD

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB MLO — 1200 AMP MCB 1200 AMP BUS (Copper)

X Single Double Feed - Thru

Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
						1	A	2						
	22719	RTU-E1	C	8	35/3	3	B	4	225/3	4/0	C	RTU-GYM	145153	1
						5	C	6						
	166122	HD	M	350	300/3	7	A	8	250/3	250	C	RTU-CAFETERIA	157908	1
						9	B	10						
						11	C	12						
	39542	TLDA	M	4	70/3	13	A	14	60/3	6	C	RTU-D5	28964	
						15	B	16						
						17	C	18						
	39539	RTU-D1	C	4	80/3	19	A	20	125/3	1	C	RTU-D6	64439	
						21	B	22						
						23	C	24						
		SPARE		12	20/1	25	A	26	60/3	6	C	RTU-KITCHEN	33348	
		SPARE		12	20/1	27	B	28						
		SPARE		12	20/1	29	C	30						
						31	A	32						
	92142	HK	M	600	400/3	33	B	34	60/3	6	C	RTU-D3	33348	
						35	C	36						
						37	A	38						
	22719	RTU-D2	C	8	35/3	39	B	40	60/3	6	C	RTU-D4	33348	
						41	C	42						
	382,783	Subtotal										Subtotal	496,508	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	581.485	100%	581.485	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	297.806	100%	297.806		(SP) Sub Panel	0	100%	0

Total Connected Load = 879,291 VA = 1058.1 AMPS
Total Load (Diversified)= 879,291 VA = 1058.1 AMPS

Location of Panel:

Panelboard HK

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB MLO — 400 AMP MCB 400 AMP BUS (Copper)

X Single Double Feed - Thru

Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
						1	A	2						
	25000	CONVECTION OVEN	K	8	40/3	3	B	4	40/3	8	K	CONVECTION OVEN	25000	
						5	C	6						
		SHUNT TRIP		12	20/1	7	A	8	20/1	12		SPACE		
	25000	CONVECTION OVEN	K	8	40/3	9	B	10	40/3	8	K	CONVECTION OVEN	25000	
						11	C	12						
						13	A	14						
		SHUNT TRIP		12	20/1	15	B	16	20/1	12		SPACE		
		SPACE		12	20/1	17	C	18	20/1	12		SPARE		
	40500	EWH-1	K	4	70/3	19	A	20	20/1	12		SPARE		
						21	B	22	20/1	12		SPARE		
						23	C	24	20/1	12		SPARE		
		SPACE		12	20/1	25	A	26	20/1	12		SPARE		
		SPACE		12	20/1	27	B	28	20/1	12		SPARE		
		SPACE		12	20/1	29	C	30	20/1	12		SPARE		
	10488	TLK	K	4	70/3	31	A	32	20/1	12		SPARE		
						33	B	34	20/1	12		SPARE		
						35	C	36	20/1	12		SPARE		
		SPARE		12	20/1	37	A	38	20/1	12		SPARE		
		SPARE		12	20/1	39	B	40	20/1	12		SPARE		
		SPARE		12	20/1	41	C	42	20/1	12		SPARE		
	100,988	Subtotal										Subtotal	50,000	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	150,988	65%	98,142		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 150,988 VA = 181.7 AMPS
Total Load (Diversified)= 98,142 VA = 118.1 AMPS

Location of Panel:

Panelboard HD

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB MLO — 300 400 AMP MCB 400 AMP BUS (Copper)

X Single Double Feed - Thru

Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
						1	A	2						
	15000	EWH-2	WH	10	25/3	3	B	4	20/3	12	H	FPT-D5-1	7500	
						5	C	6						
	7500	FPT-D1-1	H	10	25/3	7	A	8	20/3	12	H	FPT-D5-2	10500	
						9	B	10						
						11	C	12						
	6000	FPT-D1-2	H	10	25/3	13	A	14	20/3	12	H	FPT-D5-3	10500	
						15	B	16						
						17	C	18						
		SPARE		12	20/1	19	A	20	20/1	12	H	FPT-D5-4	5000	
						21	B	22						
	6000	FPT-D1-4	H	12	20/3	23	C	24	20/3	12	H	FPT-D6-1	7500	
						25	A	26						
	7500	FPT-D1-5	H	12	20/3	27	B	28	20/3	12	H	FPT-D6-2	6000	
						29	C	30						
						31	A	32						
	6500	FPT-D6-7	H	12	20/3	33	B	34	20/3	12	H	FPT-D6-3	7500	
						35	C	36						
						37	A	38						
		SPARE		12	20/1	39	B	40	20/1	12		SPARE		
		SPARE		12	20/1	41	C	42						
	2500	FPT-D1-6	H	12	20/1	43	A	44	20/3	12	H	FPT-D6-4	8000	
						45	B	46						
	7000	FPT-D6-8	H	10	25/3	47	C	48	20/3	12	H	FPT-D6-5	6500	
						49	A	50						
	2009	LIGHTS AREA D	L	12	20/1	51	B	52						
	2530	LIGHTS AREA D	L	12	20/1	53	C	54						
	1076	LIGHTS CORRIDOR D128	L	12	20/1	55	A	56	20/3	12	H	FPT-D6-6	6500	
	850	LIGHTS EXTERIOR CANOPY	EL	12	20/1	57	B	58						
	600	EXTERIOR LIGHTS AREA D	EL	12	20/1	59	C	60	20/1	12		SPARE		
	1472	SITE LIGHTS	EL	12	20/1	61	A	62						
	1500	LIGHTS AREA C	L	12	20/1	63	B	64	25/3	10	H	FPT-D1-3	7500	
	2200	LIGHTS CAFETERIA C103	L	12	20/1	65	C	66						
	1000	LIGHTS KITCHEN / STAGE	L	12	20/1	67	A	68	20/1	12		SPARE		
	750	EXTERIOR LIGHTS AREA D	EL	12	20/1	69	B	70						
				12	20/1	71	C	72	20/3	12	H	DWBP	5895	
	1743	LEF-1	H	12	20/3	73	A	74						
						75	B	76				SPACE		
						77	C	78				SPACE		
				12	20/1	79	A	80				SPACE		
				12	20/1	81	B	82				SPACE		
		SPARE				83	C	84				SPACE		
	73,730	Subtotal										Subtotal	88,895	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	10,315	125%	12,894
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	3,672	125%	4,590
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	133,638	100%	133,638		(WH) Water Ht.	15,000	100%	15,000
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 162,625 VA = 195.7 AMPS
Total Load (Diversified)= 166,122 VA = 199.9 AMPS

Location of Panel:

Panelboard LK

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB MLO — 250 AMP MCB 250 AMP BUS (Copper)

X Single Double Feed - Thru

Mounting X Surface Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	600	CIRC PUMP	WH	12	20/1	1	A	2	25/1	10	M	CONVENIENCE	1920	
	500	EF	M	12	20/1	3	B	4	20/1	12	M	MOBILE PROOFER	1500	
	15000	CONVECTION STEAMER	M	6	60/3	5	C	6						
						7	A	8	20/1	12				
		SHUNT TRIP BREAKER				9	B	10	20/1	12	M	MOBILE PROOFER	1500	
	500	FIRE PROTECTION SYSTEM	M	12	20/1	11	C	12						
				12	20/1	13	A	14	20/1	12				
	500	MILK DISPENSER	M	12	20/1	15	B	16	20/1	12	M	MOBILE PROOFER	1500	
	948	3 DOOR FRIDGE	M	12	20/1	17	C	18						
	2500	HOT FOOD WELL	M	12	20/1	19	A	20	20/1	12				
						21	B	22	20/1	12	R	CONVENIENCE R	180	
						23	C	24	20/1	12	R	CONVENIENCE R	180	
	600	COLD FOOD BAR	M	12	20/1	25	A	26	20/1	12	R	CONVENIENCE R	180	
		SPARE		12	20/1	27	B	28	20/1	12	R	CONVENIENCE R	180	
		SPARE		12	20/1	29	C	30		12	MT		1271	
	720	CONVENIENCE R	R	12	20/1	31	A	32	15/3	12	MT	GARBAGE DISPOSAL	1271	
		SPARE		12	20/1	33	B	34		12	MT		1271	
	1920	CASH REGISTER	M	12	20/1	35	C	36	20/1	12		SPARE		
		SPARE		12	20/1	37	A	38						
		SPARE		12	20/1	39	B	40	30/3	10	M	SDP2		
		SPARE		12	20/1	41	C	42						
	23,788	Subtotal										Subtotal	10,953	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	1,440		1,440	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	600	100%	600
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	3,813	125%	4,766
	(M) Misc.	28,888	100%	28,888		(SP) Sub Panel	0	100%	0

Total Connected Load = 34,741 VA = 96.5 AMPS
Total Load (Diversified)= 35,694 VA = 99.2 AMPS

Location of Panel:

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
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F 956.365.4822
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McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

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RYAN G. MILLER — 131759 — LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

07/02/2026

HARMONY PUBLIC SCHOOLS

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CITY PLACE
PHASE 2
22000 SPRINGWOODS
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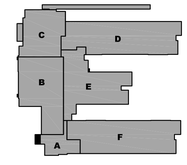
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL PANEL SCHEDULES

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#: 254026.000

RM	IL/CQ	MK/AB	CG/CR	--

E5.01

Panelboard LDA

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
2 -Nema Rating

X MCB 250 AMP MCB
MLO 250 AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	540	RCPT CLASSROOM	R	12	20/1	1	A	2	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	3	B	4	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR - D112	R	12	20/1	5	C	6	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D112	900	
	180	MM1 RECEPTACLE	R	12	20/1	7	A	8	20/1	12	R	MM1 RECEPTACLE - CLASSROOM D112	180	
	540	RCPT CLASSROOM	R	12	20/1	9	B	10	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	11	C	12	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR - D112	R	12	20/1	13	A	14	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D112	900	
	180	MM1 RECEPTACLE	R	12	20/1	15	B	16	20/1	12	R	MM1 RECEPTACLE - CLASSROOM D112	180	
	540	RCPT CLASSROOM	R	12	20/1	17	C	18	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	19	A	20	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR - D112	R	12	20/1	21	B	22	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D112	900	
	180	MM1 RECEPTACLE	R	12	20/1	23	C	24	20/1	12	R	MM1 RECEPTACLE - CLASSROOM D112	180	
	540	RCPT CLASSROOM	R	12	20/1	25	A	26	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	27	B	28	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR - D112	R	12	20/1	29	C	30	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D112	900	
	180	MM1 RECEPTACLE	R	12	20/1	31	A	32	20/1	12	R	MM1 RECEPTACLE - CLASSROOM D112	180	
	540	RCPT CLASSROOM	R	12	20/1	33	B	34	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	35	C	36	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR - D112	R	12	20/1	37	A	38	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D112	900	
	180	MM1 RECEPTACLE	R	12	20/1	39	B	40	20/1	12	R	MM1 RECEPTACLE - CLASSROOM D112	180	
		CORRIDOR R	R	12	20/1	41	C	42	20/1	12	R	CORRIDOR R		
	360	RR R	R	12	20/1	43	A	44	20/1	12	R	BIO-MED CORD REEL	360	
	360	OFFICE R	R	12	20/1	45	B	46	20/1	12	R	BIO-MED CORD REEL	360	
	540	OFFICE R	R	12	20/1	47	C	48	20/1	12	R	BIO-MED CORD REEL	360	
	540	HALLWAY R	R	12	20/1	49	A	50	20/1	12	R	SPARE		
	540	OFFICE R	R	12	20/1	51	B	52	20/1	12	R	SPARE		
	180	CLOSET R	R	12	20/1	53	C	54	20/1	12	R	SPARE		
	360	CLOSET R	R	12	20/1	55	A	56						
	600	CP-2	WH	12	20/1	57	B	58	30/3	10	M	SPD2		
	180	EXTERIOR WP/GFCI	R	12	20/1	59	C	60						
	13,560	Subtotal										Subtotal	10,980	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	23,940		16,970	210.20(a)	(IL) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	600	100%	600
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 24,540 VA = 68.2 AMPS
Total Load (Diversified)= 39,542 VA = 109.8 AMPS

Location of Panel:

Panelboard LDB

0 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 100 AMP MCB
MLO 250 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	360	BIOMED LAB AC GFCI	R	12	20/1	1	A	2				SPACE		
	360	BIOMED LAB AC GFCI	R	12	20/1	3	B	4				SPACE		
	360	BIOMED LAB AC GFCI	R	12	20/1	5	C	6				SPACE		
	360	BIOMED LAB AC GFCI	R	12	20/1	7	A	8	20/1	12	M	EPO	300	
	360	BIOMED LAB AC GFCI	R	12	20/1	9	B	10	20/1	12	R	POWER FOR PROJECTOR - BIO MED LAB D125	500	
	180	BIOMED LAB R	R	12	20/1	11	C	12	20/1	12	M	EPO		
	720	BIOMED LAB R	R	12	20/1	13	A	14	20/1	12	R	POWER FOR PROJECTOR-ENGINEERING LAB D125	500	
	360	ENGINEERING LABS CORD REELS	R	12	20/1	15	B	16				SPARE		
	360	ENGINEERING LABS CORD REELS	R	12	20/1	17	C	18				SPARE		
	360	ENGINEERING LABS CORD REELS	R	12	20/1	19	A	20				SPARE		
	360	ENGINEERING LAB AC/GFCI	R	12	20/1	21	B	22				MM1 RECEPTACLE	500	
	360	ENGINEERING LAB AC/GFCI	R	12	20/1	23	C	24	20/1	12	R	MM1 RECEPTACLE - ESL D126	180	
	540	ENGINEERING LAB DESK R	R	12	20/1	25	A	26				SPARE		
	720	ENGINEERING LAB DESK R	R	12	20/1	27	B	28				SPARE		
	720	ENGINEERING LAB R	R	12	20/1	29	C	30	20/1	12	M	FIRE RATED ACCORDION DOOR	500	
	360	ENGINEERING LAB R	R	12	20/1	31	A	32	20/2	12	R	PRINTER	1500	
	360	ENGINEERING LAB R	R	12	20/1	33	B	34				-		
	1500	ENGINEERING LAB COPIER	M	12	20/1	35	C	36	20/1	12	R	COPIER	1500	
	1500	ENGINEERING LAB COPIER	M	12	20/1	37	A	38	20/1	12	M	POWER FOR PROJECTOR - SCIENCE LAB D127	500	
	3000	IDF L6-30R	M	10	30/2	39	B	40	20/1	12	F	EF-D-ELEC	500	
						41	C	42				SPACE		
	360	IDF R	R	12	20/1	43	A	44				SPARE		
	180	IDF R	R	12	20/1	45	B	46				SPACE		
	180	EDF	R	12	20/1	47	C	48				SPARE		
	180	EDF	R	12	20/1	49	A	50				SPARE		
	180	SERVICE RECEPTACLE	R	12	20/1	51	B	52				SPARE		
	360	RESTROOM R	R	12	20/1	53	C	54				SPARE		
	2762	CU-D	C	12	20/2	55	A	56				SPARE		
						57	B	58				SPARE		
		SPACE				59	C	60				SPARE		
	17,402	Subtotal										Subtotal	6,480	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	12,820		11,410	210.20(a)	(IL) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	2,762	100%	2,762	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	500	100%	500	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	7,300	100%	7,300		(SP) Sub Panel	0	100%	0

Total Connected Load = 23,382 VA = 65.0 AMPS
Total Load (Diversified)= 21,972 VA = 61.0 AMPS

Location of Panel:

Panelboard HX

22,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 250 AMP MCB
MLO 250 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
						1	A	2	20/1	12		SPARE		
	28781	TLX	SP	1	125/3	3	B	4	20/1	12		SPARE		
						5	C	6	20/1	12		SPARE		
		SPACE		12	20/1	7	A	8	20/1	12		SPARE		
		SPACE		12	20/1	9	B	10	20/1	12		SPARE		
		SPACE		12	20/1	11	C	12	20/1	12		SPARE		
		SPACE		12	20/1	13	A	14	20/1	12		SPARE		
		SPACE		12	20/1	15	B	16	20/1	12		SPARE		
		SPACE		12	20/1	17	C	18	20/1	12		SPARE		
		SPACE		12	20/1	19	A	20	20/1	12		SPARE		
		SPACE		12	20/1	21	B	22	20/1	12		SPARE		
		SPACE		12	20/1	23	C	24	20/1	12		SPARE		
		SPACE		12	20/1	25	A	26	20/1	12		SPARE		
		SPACE		12	20/1	27	B	28	20/1	12		SPARE		
		SPACE		12	20/1	29	C	30	20/1	12		SPARE		
	28,781	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	28,781	100%	28,781

Total Connected Load = 28,781 VA = 34.6 AMPS
Total Load (Diversified)= 28,781 VA = 34.6 AMPS

Location of Panel:

Panelboard HS

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 225 AMP MCB
MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
						1	A	2	20/1			SPACE		
	11080	TLS	M	4	70/3	3	B	4	20/1			SPACE		
						5	C	6	20/1			SPACE		
		SPACE		12	20/1	7	A	8	20/1			SPACE		
	11625	IRRIGATION PUMP	M	12	20/3	9	B	10	20/1			SPACE		
						11	C	12	20/1			SPACE		
						13	A	14	20/1	12	EL	SPACE	280	
	7699	SPORTS LIGHTING P1	EL	10	30/2	15	B	16	30/2	10	EL	SPORTS LIGHTING P2	7699	
	7699		EL			17	C	18			EL		7699	
		SPARE		12	20/1	19	A	20	20/1	12		SPACE		
	7699	SPORTS LIGHTING P3	EL	10	30/2	21	B	22	30/2	10	EL	SPORTS LIGHTING P4	7699	
	7699		EL			23	C	24			EL		7699	
		SPARE		12	20/1	25	A	26	20/1	12		SPACE		
		SPARE		12	20/1	27	B	28	20/1	12		SPACE		
		SPARE		12	20/1	29	C	30	20/1	12		SPACE		
		SPARE		12	20/1	31	A	32	20/1	12		SPACE		
		SPARE		12	20/1	33	B	34	20/1	12		SPACE		
		SPARE		12	20/1	35	C	36	20/1	12		SPACE		
		SPARE		12	20/1	37	A	38	20/1	12		SPACE		
		SPARE		12	20/1	39	B	40	20/1	12		SPACE		
		SPARE		12	20/1	41	C	42	20/1	12		SPACE		
	53,501	Subtotal										Subtotal	31,076	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	61,872	125%	77,340
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	22,705	100%	22,705		(SP) Sub Panel	0	100%	0

Total Connected Load = 84,577 VA = 101.8 AMPS
Total Load (Diversified)= 100,045 VA = 120.4 AMPS

Location of Panel:

Panelboard LX

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 100 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	600	TEMP ALARM	M	12	20/1	1	A	2						
	1920	DOOR HEATER AND LIGHTS	M	12	20/1	3	B	4	20/2	12	M	FREEZER COIL	3328	
	1200	PANIC ALARM BUTTOn	M	12	20/1	5	C	6	20/1	12				
	1920	DOOR HEATER AND LIGHTS	M	12	20/1	7	A	8						
	600	PRESSURE RELIEF PORT	M	12	20/1	9	B	10	50/3	8	M	REFRIDGERATION SYSTEM	14393	
	600	TEMP ALARM	M	12	20/1	11	C	12						
	1920	DRAIN LINE HEATER	M	12	20/1	13	A	14	20/1	12				
	600	PRESSURE RELIEF PORT	M	12	20/1	15	B	16	20/1	12				
	1200	COOLER COIL	M	12	20/1	17	C	18	20/1	12				
	750	MOTORIZED GATE	M	10	20/2	19	A	20	20/1	12				
	750		M	10	20/2	21	B	22	20/1	12				
	750	MOTORIZED GATE	M	10	20/2	23	C	24	20/1	12				
	750		M	10	20/2	25	A	26	20/1	12				
	750	MOTORIZED GATE	M	10	20/2	27	B	28	20/1	12				
	750		M	10	20/2	29	C	30	20/1	12				
	750	MOTORIZED GATE	M	10	20/2	31	A	32	20/1	12				
	750		M	10	20/2	33	B	34	20/1	12				
	750	MOTORIZED GATE	M	10	20/2	35	C	36	20/1	12				
	750		M	10	20/2	37	A	38						
				12	20/1	39	B	40	30/3	10	M	SPD2		
				12	20/1	41	C	42						
	18,060	Subtotal										Subtotal	17,721	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	35,781	100%	35,781		(SP) Sub Panel	0	100%	0

Total Connected Load = 35,781 VA = 99.4 AMPS
Total Load (Diversified)= 35,781 VA = 99.4 AMPS

Location of Panel:

Panelboard LS

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 225 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	1500	SITE MARQUEE	M	12	20/1	1	A	2	20/1	12		SPACE		
	1500	MOTORIZED GATE	M	12	20/1	3	B	4	20/1	12		SPACE		
	1500	MOTORIZED GATE	M	12	20/1	5	C	6	20/1	12		SPACE		
	1500	MOTORIZED GATE	M	12	20/1	7	A	8	20/1	12		SPACE		
	200	TIME CLOCK	M	12	20/1	9	B	10	20/1	12		SPACE		
	200	TIME CLOCK	M	12	20/1	11	C	12	20/1	12		SPACE		
	1500	SCOREBOARD	M	12	20/1	13	A	14	20/1	12		SPACE		
	1500	SCORERS TABLE	M	12	20/1	15	B	16	20/1	12		SPACE		
	180	SERVICE RECEPTACLE	R	12	20/1	17	C	18	20/1	12		SPACE		
	1500	MOTORIZED GATE	M	12	20/1	19	A	20	20/1	12		SPACE		
		SPACE		12	20/1	21	B	22	20/1	12		SPACE		
		SPACE		12	20/1	23	C	24	20/1	12		SPACE		
		SPACE		12	20/1	25	A	26	20/1	12		SPACE		
		SPACE		12	20/1	27	B	28	20/1	12		SPACE		
		SPACE		12	20/1	29	C	30	20/1	12		SPACE		
		SPACE		12	20/1	31	A	32	20/1	12		SPARE		
		SPACE		12	20/1	33	B	34	20/1	12		SPARE		
		SPACE		12	20/1	35	C	36	20/1	12		SPARE		
		SPACE		12	20/1	37	A	38						
		SPACE		12	20/1	39	B	40	30/3	10	M	SPD2		
		SPACE		12	20/1	41	C	42						
	11,080	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	180		180	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	10,900	100%	10,900		(SP) Sub Panel	0	100%	0

Total Connected Load = 11,080 VA = 30.8 AMPS
Total Load (Diversified)= 11,080 VA = 30.8 AMPS

Location of Panel:

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
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T 956.365.4820
F 956.365.4822
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McALLEN, TEXAS 78501
T 956.686.0100
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CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
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PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
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Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave,
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
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San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
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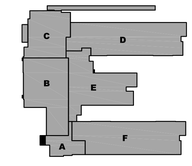
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

Licensed Professional Engineer
RYAN G. MILLER
131259
STATE OF TEXAS
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL PANEL SCHEDULES

E5.02

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000

RM	IL/CQ	MK/AB	CG/CR	---

Distribution Panelboard DPF

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 1200 AMP MCB
MLO 1200 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	118581	HA	M	350	300/3	1	A	2	20/1	12		SPACE		
						3	B	4	20/1	12		SPACE		
						5	C	6	20/1	12		SPACE		
	211230	HF	M	350	300/3	7	A	8	20/1	12		SPACE		
						9	B	10	20/1	12		SPACE		
						11	C	12	20/1	12		SPACE		
	27644	TLF	M	4	70/3	13	A	14	20/1	12		SPACE		
						15	B	16	20/1	12		SPACE		
						17	C	18	20/1	12		SPACE		
	385693	MF	M	500	400/3	19	A	20	20/1	12		SPARE		
						21	B	22	20/1	12		SPARE		
						23	C	24	20/1	12		SPARE		
	60718	RTU-F3	C	2	110/3	25	A	26	20/1	12		SPARE		
						27	B	28	20/1	12		SPARE		
						29	C	30	20/1	12		SPARE		
	49026	RTU-F2	C	3	90/3	31	A	32	20/1	12		SPARE		
						33	B	34	20/1	12		SPARE		
						35	C	36	20/1	12		SPARE		
		SPACE		12	20/1	37	A	38	20/1	12		SPARE		
		SPACE		12	20/1	39	B	40	20/1	12		SPARE		
		SPACE		12	20/1	41	C	42	20/1	12		SPARE		
	852,892	Subtotal										Subtotal	0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	109,744	100%	109,744	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	743,148	100%	743,148		(SP) Sub Panel	0	100%	0

Total Connected Load = 852,892 VA = 1026.3 AMPS
Total Load (Diversified)= 852,892 VA = 1026.3 AMPS

Location of Panel:

Panelboard MF

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 400 AMP MCB
MLO 400 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	22719	RTU-E3	C	8	35/3	1	A	2						
						3	B	4	35/3	8	C	RTU-B3	21391	
						5	C	6						
	21391	RTU-E2	C	8	35/3	7	A	8						
						9	B	10	60/3	6	C	RTU-E8	39659	
						11	C	12						
	39593	RTU-F1	C	4	80/3	13	A	14						
						15	B	16	60/3	6	C	RTU-E5	39659	
						17	C	18						
	19796	RTU-1A	C	8	45/3	19	A	20						
						21	B	22	35/3	12	C	RTU-E4	22719	
						23	C	24						
	20859	RTU-1B	C	8	35/3	25	A	26						
						27	B	28	40/3	8	C	RTU-E7	23583	
						29	C	30						
	21391	RTU-2B	C	8	35/3	31	A	32						
						33	B	34	50/3	8	C	RTU-E6	25310	
						35	C	36						
	41520	RTU-E9	C	4	70/3	37	A	38						
						39	B	40	35/3		C	RTU-E10	22719	
						41	C	42						
	696	EF-E-RR2	F	12	20/1	43	A	44				SPARE		
	696	EF-E-RR1	F	12	20/1	45	B	46				SPARE		
				12	20/1	47	C	48				SPARE		
				12	20/1	49	A	50				SPARE		
				12	20/1	51	B	52				SPARE		
						53	C	54				SPARE		
		SPACE				55	A	56				SPARE		
		SPACE				57	B	58				SPARE		
		SPACE				59	C	60				SPARE		
	188,651	Subtotal										Subtotal	195,040	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	359,590	100%	359,590	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	1,392	100%	1,392	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 360,982 VA = 434.4 AMPS
Total Load (Diversified)= 360,982 VA = 434.4 AMPS

Location of Panel:

Panelboard HF

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 300 AMP MCB
MLO 400 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	40500	EWH-3	WH	4	70/3	1	A	2						
						3	B	4	20/3	12	H	FPT-F2-1	8000	
						5	C	6						
	7500	FPT-F1-1	H	12	20/3	7	A	8						
						9	B	10	20/3	12	H	FPT-F2-2	8000	
						11	C	12						
	7500	FPT-F1-2	H	12	20/3	13	A	14						
						15	B	16	20/3	12	H	FPT-F2-3	8000	
						17	C	18						
		SPACE				19	A	20	20/1	12		SPARE		
	7500	FPT-F1-3	H	12	20/3	21	B	22						
						23	C	24	20/3	12	H	FPT-F2-4	7000	
						25	A	26						
	7000	FPT-F1-5	H	12	20/3	27	B	28						
						29	C	30	20/3	12	H	FPT-F2-5	7000	
						31	A	32						
	7000	FPT-F1-6	H	12	20/3	33	B	34						
						35	C	36	20/3	12	H	FPT-F2-6	7000	
						37	A	38						
		SPACE				39	B	40	20/1	12		SPARE		
	8500	FPT-F3-8	H	12	20/3	41	C	42						
						43	A	44	20/3	12	H	FPT-F2-7	8000	
						45	B	46						
		SPACE				47	C	48						
	2484	LIGHTS AREA F	L	12	20/1	49	A	50	20/3	12	H	FPT-F3-1	9000	
	2530	LIGHTS AREA F	L	12	20/1	51	B	52						
	882	LIGHTS CORRIDOR F127	L	12	20/1	53	C	54						
				12	20/1	55	A	56	20/3	12	H	FPT-F3-2	8500	
						57	B	58						
	1840	SITE LIGHTS	EL	12	20/1	59	C	60	20/1	12		SPARE		
	7500	FPT-F3-6	H	12	20/3	61	A	62						
						63	B	64	20/3	12	H	FPT-F3-3	7500	
						65	C	66						
		SPARE				67	A	68						
		SPARE				69	B	70	20/3	12	H	FPT-F3-4	10000	
	1840	SITE LIGHTS	EL	12	20/1	71	C	72						
	2208	SITE LIGHTS	EL	12	20/1	73	A	74						
	7500	FPT-F3-7	H	12	20/3	75	B	76	20/3	12	H	FPT-F3-5	8000	
						77	C	78						
						79	A	80	20/1	12		SPARE		
		SPARE				81	B	82	20/1	12		SPARE		
		SPARE				83	C	84	20/1	12		SPARE		
	112,284	Subtotal										Subtotal	96,000	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	5,896	125%	7,370
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	5,888	125%	7,360
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	156,000	100%	156,000		(WH) Water Ht.	40,500	100%	40,500
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 208,284 VA = 250.6 AMPS
Total Load (Diversified)= 211,230 VA = 254.2 AMPS

Location of Panel:

Panelboard LF

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 150 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	180	RCPT ELEC.	R	12	20/1	1	A	2	20/1	12	R	RCPT JANITOR. CORR.	360	
	360	RCPT RESTROOM	R	12	20/1	3	B	4	20/1	12	R	RCPT CORR.	540	
	540	RCPT CLASSROOM	R	12	20/1	5	C	6	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	7	A	8	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR -F116	R	12	20/1	9	B	10	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F115	900	
	180	MM1 RECEPTACLE - CLASSROOM F116	R	12	20/1	11	C	12	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F115	180	
	540	RCPT CLASSROOM	R	12	20/1	13	A	14	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	15	B	16	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR -F117	R	12	20/1	17	C	18	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F114	900	
	180	MM1 RECEPTACLE - CLASSROOM F117	R	12	20/1	19	A	20	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F114	180	
	540	RCPT CLASSROOM	R	12	20/1	21	B	22	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	23	C	24	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR -F118	R	12	20/1	25	A	26	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F113	900	
	180	MM1 RECEPTACLE - CLASSROOM F118	R	12	20/1	27	B	28	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F113	180	
	540	RCPT CLASSROOM	R	12	20/1	29	C	30	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	31	A	32	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR -F119	R	12	20/1	33	B	34	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F112	900	
	180	MM1 RECEPTACLE - CLASSROOM F119	R	12	20/1	35	C	36	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F112	180	
	540	WATER COOLER	M	12	20/1	37	A	38	20/1	12	M	WATER COOLER	540	
	360	RCPT BATHROOM	M	12	20/1	39	B	40	20/1	12	WH	GWH	600	
	600	CP-3	WH			41	C	42	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT LAB	R	12	20/1	43	A	44	20/1	12	R	RCPT CLASSROOM	360	
	360	RCPT LAB	R	12	20/1	45	B	46	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F107	900	
	360	RCPT LAB	R	12	20/1	47	C	48	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F107	180	
	180	RCPT LAB	R	12	20/1	49	A	50	20/1	12	R	EXTERIOR WP/GFCI	180	
	360	RCPT LAB	R	12	20/1	51	B	52	20/2	12	R	FCU-A2		
	540	RCPT CLASSROOM	R	12	20/1	53	C	54						
	360	RCPT CLASSROOM	R	12	20/1	55	A	56	20/1	12	R	RCPT CLASSROOM	540	
	900	CLASSROOM RCPT/PROJECTOR -F122	R	12	20/1	57	B	58	20/1	12	R	RCPT CLASSROOM	360	
	180	MM1 RECEPTACLE - CLASSROOM F122	R	12	20/1	59	C	60	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F106	900	
	180	CORRIDOR R	R	12	20/1	61	A	62	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F106	180	
	1000	TEACHER LOUNGE COPIER	R	12	20/1	63	B	64	20/1	12	R	RCPT CLASSROOM	540	
						65	C	66	20/1	12	R	RCPT CLASSROOM	360	
	540	TEACHERS LOUNGE R	R	12	20/1	67	A	68	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F105	900	
	500	EF-ELEC-F1	F	12	20/1	69	B	70	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F105	180	
	900	ROOFTOP SERVICE RECEP				71	C	72	20/1	12	R	RCPT CLASSROOM	540	
	2762	CU-A	C	12	20/2	73	A	74	20/1	12	R	RCPT CLASSROOM	360	
						75	B	76	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F123	900	
	696	EF-E-RR2	F	12	20/1	77	C	78	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F123	180	
	696	EF-E-RR1	F	12	20/1	79	A	80						
		SPARE				81	B	82	30/3	10	M	SPD2		
		SPARE				83	C	84						
	20,834	Subtotal										Subtotal	18,060	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	30,700		20,350	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	2,762	100%	2,762	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	1,200	100%	1,200
220.60	(F) Fans	1,892	100%	1,892	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	1,440	100%	1,440		(SP) Sub Panel	0	100%	0

Total Connected Load = 37,994 VA = 105.5 AMPS
Total Load (Diversified)= 27,644 VA = 76.8 AMPS

Location of Panel:

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242
LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

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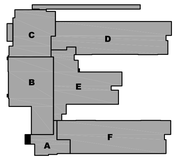
HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL PANEL SCHEDULES

E5.03

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000

RM	IL/CQ	MK/AB	CG/CR	--

Panelboard HA

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 300 AMP MCB
MLO 400 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
						1	A	2	20/1	12	L	LIGHTS AREA A	2500	
	62561	TLA	M	1	125/3	3	B	4	20/1	12	L	LIGHTS AREA B	1000	
						5	C	6	20/1	12	L	LIGHTS GYM B110	2556	
	4500	FPT-1A-1	F	10	25/1	7	A	8	20/1	12	EL	SITE LIGHTS	1472	
	5000	FPT-1A-2	F	10	25/1	9	B	10	20/1	12	EL	SITE LIGHTS	1472	
	3500	FPT-1A-3	F	12	20/1	11	C	12	20/1	12	L	BUIDING SIGNAGE	1000	
	4000	FPT-1A-4	F	12	20/1	13	A	14	20/1	12	L	BUIDING SIGNAGE	1000	
						15	B	16	20/1	12		SPARE		
	12000	FPT-F1-4	H	12	20/3	17	C	18	20/1	12	L	BUIDING SIGNAGE	1000	
						19	A	20	20/1	12	L	BUIDING SIGNAGE	1000	
		SPACE		12	20/1	21	B	22	20/1	12	L	LIGHTING CORRIDOR B111	1200	
		SPACE		12	20/1	23	C	24	20/1	12	L	FLAGPOLE UPLIGHTING	1500	
		SPACE		12	20/1	25	A	26	20/1	12	EL	EXTERIOR WALLPACKS	1500	
		SPACE		12	20/1	27	B	28	20/1	12	EL	SITE LIGHTS	1472	
		SPACE		12	20/1	29	C	30	20/1	12	EL	SITE LIGHTS	1472	
		SPACE		12	20/1	31	A	32	20/1	12	EL	SITE LIGHTS	1472	
		SPACE		12	20/1	33	B	34	20/1	12		SPARE		
		SPACE		12	20/1	35	C	36	20/1	12		SPARE		
		SPACE		12	20/1	37	A	38	20/1	12		SPARE		
		SPACE		12	20/1	39	B	40	20/1	12		SPARE		
		SPACE		12	20/1	41	C	42	20/1	12		SPARE		
	91,561	Subtotal										Subtotal	21,616	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	12,756	125%	15,945
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	8,860	125%	11,075
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	12,000	100%	12,000		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	17,000	100%	17,000	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	62,561	100%	62,561		(SP) Sub Panel	0	100%	0

Total Connected Load = 113,177 VA = 136.2 AMPS
Total Load (Diversified)= 118,581 VA = 142.7 AMPS

Location of Panel:

Panelboard LA

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 250 AMP MCB
MLO 250 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	180	RCPT ELEC.	R	12	20/1	1	A	2	20/1	12	R	RCPT OFFICES	1440	
	540	RCPT CLASSROOM F100	R	12	20/1	3	B	4	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM F100	R	12	20/1	5	C	6	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR - F100	R	12	20/1	7	A	8	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F102	900	
	180	MM1 RECEPTACLE - CLASSROOM F100	R	12	20/1	9	B	10	20/1	12	R	MM1 RECEPTACLE - CLASSROOM F102	180	
	540	RCPT CLASSROOM - F103	R	12	20/1	11	C	12	20/1	12	R	RCPT CLASSROOM F104	540	
	360	RCPT CLASSROOM - F103	R	12	20/1	13	A	14	20/1	12	R	RCPT CLASSROOM F104	360	
	900	CLASSROOM RCPT/PROJECTOR - F103	R	12	20/1	15	B	16	20/1	12	R	CLASSROOM RCPT/PROJECTOR - F104	900	
	180	MM1 RECEPTACLE - F103	R	12	20/1	17	C	18	20/1	12	R	MM1 RECEPTACLE - F104	180	
	540	RCPT CLASSROOM F105	R	12	20/1	19	A	20	20/1	12	R	MAKERS SPACE R	900	
	360	RCPT CLASSROOM F105	R	12	20/1	21	B	22	20/1	12	R	MAKERS SPACE R	900	
	360	CORRIDOR R	R	12	20/1	23	C	24	20/1	12	R	MAKERS SPACE R	720	
			R	12	20/1	25	A	26	20/1	12	R	MAKERS SPACE R	540	
	180	MAKERS SPACE CORD REELS	R	12	20/1	27	B	28	20/1	12	R	RCPT CLASSROOM	540	
	180	MAKERS SPACE CORD REELS	R	12	20/1	29	C	30	20/1	12	R	RCPT CLASSROOM	360	
	180	MAKERS SPACE CORD REELS	R	12	20/1	31	A	32	20/1	12	R	CLASSROOM RCPT/PROJECTOR	900	
	180	MAKERS SPACE CORD REELS	R	12	20/1	33	B	34	20/1	12	R	MM1 RECEPTACLE - F122	180	
	540	RCPT CLASSROOM	R	12	20/1	35	C	36	20/1	12	R	SPARE		
	360	RCPT CLASSROOM	R	12	20/1	37	A	38	20/1	12	R	SPARE		
	900	CLASSROOM RCPT/PROJECTOR - F123	R	12	20/1	39	B	40	20/1	12	R	SPARE		
	180	MM1 RECEPTACLE - F123	R	12	20/1	41	C	42	20/1	12	R	RCPT OFFICES	900	
	540	CORRIDOR R	R	12	20/1	43	A	44	20/1	12	R	NURSE QUAD	360	
	1000	PRINTER - FRONT OFFICE A113	R	12	20/1	45	B	46	20/1	12	R	R OFFICE	900	
		SPARE				47	C	48	20/1	12	R	R OFFICE	1440	
	180	IDF R	R	12	20/1	49	A	50	20/1	12	R	R OFFICE CORRIDOR	720	
	3000	IDF L6-30R	R	12	20/1	51	B	52	20/1	12	R	DED. RCPT NURSE	500	
						53	C	54	20/1	12	R	RCPT NURSE	720	
	360	IDF R	R	12	20/1	55	A	56						
	180	IDF R	R	12	20/1	57	B	58	30/3	10		SPD2		
	900	SECURED LOBBY	R	12	20/1	59	C	60			M			
	1360	MAKERS SPACE R	R	12	20/1	61	A	62	20/1	12		OFFICE R	540	
	360	MAKERS SPACE R	R	12	20/1	63	B	64	20/1	12	M	DED. RCPT BREAKROOM	1000	
	720	MAKERS SPACE R	R	12	20/1	65	C	66	20/1	12	K	REFRIGERATOR	1000	
	540	MAKERS SPACE R	R	12	20/1	67	A	68	20/1	12	R	DED REC BREAKROOM	180	
	540	MAKERS SPACE R	R	12	20/1	69	B	70	20/1	12	R	EXTERIOR WP/GFCI	180	
	720	MAKERS SPACE R	R	12	20/1	71	C	72	20/1	12	R	OVERHEAD SECURITY COILING GRILLE	1000	
	720	MAKERS SPACE R	R	12	20/1	73	A	74	20/1	12				
	180	MAKERS SHOP CORD REEL	R	12	20/1	75	B	76	20/1	12	L	POWER FOR DISPLAY CASE LIGHTS	500	
	180	PRINT ROOM R	R	12	20/1	77	C	78	20/1	12	R	FIRE ALARM ANNUNCIATOR	500	
	1000	PRINTER	R	12	20/1	79	A	80	20/1	12	R	RECEPTACLES - FRONT OFFICE A113	360	
	180	PRINT ROOM R	R	12	20/1	81	B	82	20/1	12	R	POWER FOR VIDEO/INTERCOM DEVICE	500	
	1000	REFRIGERATOR	K	12	20/1	83	C	84	20/1	12	M	COPIER - FRONT OFFICE A113	360	
	21,760	Subtotal										Subtotal	22,100	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	39,460		24,730	210.20(a)	(L) Lighting	500	125%	625
220.56	(K) Kitchen	2,000	100%	2,000		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	1,360	100%	1,360		(SP) Sub Panel	0	100%	0

Total Connected Load = 43,320 VA = 120.3 AMPS
Total Load (Diversified)= 62,561 VA = 173.8 AMPS

Location of Panel:

Panelboard LA1

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 100 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	180	MM1 RECEPTACLE - F124	R	12	20/1	1	A	2	20/1	12	M	CLASSROOM RCPT/PROJECTOR	900	
	900	CLASSROOM RCPT/PROJECTOR	R	12	20/1	3	B	4	20/1	12	M	CLASSROOM RCPT	360	
	360	CLASSROOM RCPT	R	12	20/1	5	C	6	20/1	12	M	MM1 RECEPTACLE - F124	180	
	540	CLASSROOM RCPT	R	12	20/1	7	A	8	20/1	12	M	CLASSROOM RCPT	540	
	720	RCPT CORR	R	12	20/1	9	B	10	20/1	12	R	RCPT BREAKROOM	720	
	800	DED. RCPT BREAKROOM	M	12	20/1	11	C	12	20/1	12	R	EDF	180	
				12	20/1	13	A	14	20/1	12	R	EXTERIOR WP/GFCI	180	
	1500	EQUIPMENT - GYM	R	12	20/1	15	B	16	20/1	12	R	RCPT OFFICES	1444	
	1500	EQUIPMENT - GYM	R	12	20/1	17	C	18	20/1	12	R	CORD REELS	180	
	1500	EQUIPMENT - GYM	M	12	20/1	19	A	20	20/1	12	R	CORD REELS	180	
	1500	EQUIPMENT - GYM	R	12	20/1	21	B	22	20/1	12	R	RCPT CORR	720	
	720	RCPT OFFICE	R	12	20/1	23	C	24	20/1	12	R	RCPT ENTRANCE, FOYER	720	
	900	RCPT OFFICE, CORR.	R	12	20/1	25	A	26	20/1	12	R	MM1	500	
	360	RCPT LABORATORY	R	12	20/1	27	B	28	20/1	12	R	RCPT LABORATORY	360	
	500	PROJECTION SCREEN	R	12	20/1	29	C	30	20/1	12	R	RCPT LABORATORY, SHOP	360	
	540	RCPT CLASS, LAB	R	12	20/1	31	A	32	20/1	12	R	RCPT CLASS, LAB	540	
						33	B	34	20/1	12	R	CORD REELS	180	
	1500	MOTORIZED STANDS	M	10	30/3	35	C	36	20/1	12	R	CORD REELS	180	
						37	A	38	20/1	12	R	RCPT LAB	360	
	360	RCPT LAB	R	12	20/1	39	B	40	20/1	12	R	RCPT LAB	360	
	180	DED. RCPT LAB	M	12	20/1	41	C	42	20/1	12	R	RCPT LAB	360	
	540	RPCT LOCKER ROOM	R	12	20/1	43	A	44	20/1	12	R	TECH RACK	180	
	540	RCPT COACH OFFICE	R	12	20/1	45	B	46	20/1	12	R	RCPT CONFERENCE	540	
	360	RCPT LOCKER ROOM	R	12	20/1	47	C	48	20/1	12	R	RCPT CONFERENCE	360	
	540	RCPT GYMNASIUM	R	12	20/1	49	A	50	20/1	12	M	GYMNASIUM GOAL POWER	1176	
	360	RCPT GYMNASIUM	R	12	20/1	51	B	52	20/1	12	M	GYMNASIUM GOAL POWER	1176	
	360	RCPT GYMNASIUM	R	12	20/1	53	C	54	20/1	12	M	GYMNASIUM GOAL POWER	1176	
	360	RCPT GYMNASIUM	R	12	20/1	55	A	56	20/1	12	M	GYMNASIUM GOAL POWER	1176	
	360	SMALL CLASSROOM BOARD	R	12	20/1	57	B	58	20/1	12	M	GYMNASIUM GOAL POWER	1176	
	500	MM1	R	12	20/1	59	C	60	20/1	12	M	GYMNASIUM GOAL POWER	1176	
	540	MS SCIENCE CLASSROOM R	R	12	20/1	61	A	62	20/1	12	R	CORD REELS	180	
	860	MS SCIENCE CLASSROOM R	R	12	20/1	63	B	64	20/1	12	R	CORD REELS	180	
	360	MS SCIENCE CLASSROOM R	R	12	20/1	65	C	66	20/1	12	R	CORD REELS	180	
	180	MS SCIENCE CLASSROOM R	R	12	20/1	67	A	68	20/1	12	R	CORD REELS	180	
	360	MS SCIENCE CLASSROOM R	R	12	20/1	69	B	70	20/1	12		SPARE		
	180	MAINT. RECEP	R	12	20/1	71	C	72				SPARE		
	696	EF-PRINTER	F	12	20/1	73	A	74				SPARE		
	696	EF-B-S1	F	12	20/1	75	B	76				SPARE		
	696	EF-B-LK	F	12	20/1	77	C	78				SPARE		
		SPACE				79	A	80				SPARE		
		SPACE				81	B	82				SPARE		
		SPACE				83	C	84				SPARE		
	23,048	Subtotal										Subtotal	18,360	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	26,484		18,242	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	2,088	100%	2,088	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	13,516	100%	13,516		(SP) Sub Panel	0	100%	0

Total Connected Load = 42,088 VA = 116.9 AMPS
Total Load (Diversified)= 33,846 VA = 94.0 AMPS

Location of Panel:

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

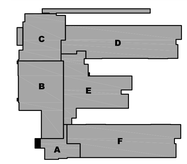
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

Ryan Miller
STATE OF TEXAS
RYAN G. MILLER
131759
LICENSED
ELECTRICAL ENGINEER

07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL PANEL SCHEDULES

E5.04

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#: 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

Distribution Panelboard DPE

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 300 AMP MCB
MLO 400 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH	OKT #	CB	Wire	Type	Description	Load (VA)	Notes
	50246	TLE	M	4	70/3	1	A	2	20/1	12	L	LIGHTS AREA E	1650	
						3	B	4	20/1	12	L	LIGHTS AREA E	2135	
						5	C	6	20/1	12	L	LIGHTS CORRIDOR E128	758	
	55078	TLD	M	1	125/3	7	A	8	20/1	12	EL	EXTERIOR LIGHTS AREA E	1500	
						9	B	10	20/1	12		SPARE		
						11	C	12	20/1	12		SPARE		
		SPARE		12	20/1	13	A	14	20/1	12		SPARE		
	913	FPTU-E6-1	H	10	30/3	15	B	16	20/1	12		SPARE		
						17	C	18	20/1	12		SPARE		
						19	A	20	20/1	12		SPARE		
		SPARE		12	20/1	21	B	22	20/1	12		SPARE		
	4803	FPTU-E6-2	H	10	30/1	23	C	24	20/1	12		SPARE		
	4803	FPTU-E6-3	H	12	20/1	25	A	26	20/1	12		SPARE		
	4803	FPTU-E6-6	H	12	20/1	27	B	28	20/1	12		SPARE		
	4803	FPTU-E6-5	H	12	20/1	29	C	30	20/1	12		SPARE		
	4803	FPTU-E6-4	H	12	20/1	31	A	32	20/1	12		SPARE		
		SPARE		12	20/1	33	B	34	20/1	12		SPARE		
		SPARE		12	20/1	35	C	36	20/1	12		SPACE		
		SPACE		12	20/1	37	A	38	20/1	12		SPACE		
		SPACE		12	20/1	39	B	40	20/1	12		SPACE		
		SPACE		12	20/1	41	C	42	20/1	12		SPACE		
	130,252	Subtotal										Subtotal	6,043	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	4,543	125%	5,679
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	1,500	125%	1,875
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	24,928	100%	24,928		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	105,324	100%	105,324		(SP) Sub Panel	0	100%	0

Total Connected Load = 136,295 VA = 164.0 AMPS
Total Load (Diversified)= 137,806 VA = 165.8 AMPS

Location of Panel:

Panelboard LE

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
2 -Nema Rating

X MCB 250 AMP MCB
MLO 250 AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH	OKT #	CB	Wire	Type	Description	Load (VA)	Notes
	720	CLASSROOM R	R	12	20/1	1	A	2	20/1	12	R	ELECTRICAL R	180	
	720	LAB R	R	12	20/1	3	B	4	20/1	12	R	LAB R	360	
	900	LAB R	R	12	20/1	5	C	6	20/1	12	R	MM1 RECEPTACLE - TECHNOLOGY E108	180	
	360	AC GFCI R	R	12	20/1	7	A	8	20/1	12	R	CLASSROOM R	360	
	180	TEST STORE R	R	12	20/1	9	B	10	20/1	12	R	CORRIDOR R	900	
	1200	REF R	R	12	20/1	11	C	12	20/1	12	R	LAB R	360	
	540	RR R	R	12	20/1	13	A	14	20/1	12	R	LAB R	360	
	540	CLASSROOM R	R	12	20/1	15	B	16	20/1	12	R	LAB R	360	
	720	CLASSROOM R	R	12	20/1	17	C	18	20/1	12	R	LAB R	360	
	900	OFFICE R	R	12	20/1	19	A	20	20/1	12	R	LAB R	360	
	1440	OFFICE R	R	12	20/1	21	B	22	20/1	12	R	LAB R	360	
	1444	OFFICE R	R	12	20/1	23	C	24	20/1	12	R	LAB R	360	
	900	OFFICE R	R	12	20/1	25	A	26	20/1	12	R	LAB R	900	
	720	CLASSROOM R	R	12	20/1	27	B	28	20/1	12	R	LAB R	360	
	360	CLASSROOM R	R	12	20/1	29	C	30	20/1	12	R	SERVER RECEPTACLE	180	
	360	GT R	R	12	20/1	31	A	32	20/1	12	R	TECHNOLOGY CORD REELS	180	
	540	GT R	R	12	20/1	33	B	34	20/1	12	R	TECHNOLOGY CORD REELS	180	
	180	CLOSET R	R	12	20/1	35	C	36	20/1	12	R	TECHNOLOGY CORD REELS	180	
	360	EOF	R	12	20/1	37	A	38						
	360	RR R	R	12	20/1	39	B	40	30/3	10	M	SPD2		
	360	LAB R	R	12	20/1	41	C	42						
	360	LAB R	R	12	20/1	43	A	44	20/1	12	R	PHYSICS LAB CORD REELS	180	
	540	LAB R	R	12	20/1	45	B	46	20/1	12	R	PHYSICS LAB CORD REELS	180	
	360	LAB R	R	12	20/1	47	C	48	20/1	12	R	PHYSICS LAB CORD REELS	180	
	360	LAB R	R	12	20/1	49	A	50	20/1	12	R	PHYSICS LAB CORD REELS	180	
	360	LAB R	R	12	20/1	51	B	52	20/1	12	R	PHYSICS LAB CORD REELS	180	
	360	LAB R	R	12	20/1	53	C	54	20/1	12	R	PHYSICS LAB CORD REELS	180	
	180	PHYSICS LAB R	R	12	20/1	55	A	56	20/1	12	R	TECHNOLOGY E108 COMPUTERS	720	
	180	PHYSICS LAB R	R	12	20/1	57	B	58	20/1	12	R	TECHNOLOGY E108 COMPUTERS	720	
	720	TECHNOLOGY COMPUTERS	R	12	20/1	59	C	60	20/1	12	R	TECHNOLOGY E108 COMPUTERS	900	
	540	TECHNOLOGY COMPUTERS	R	12	20/1	61	A	62	20/1	12	R	TECHNOLOGY E108 COMPUTERS	720	
	720	TECHNOLOGY COMPUTERS	R	12	20/1	63	B	64	20/1	12	R	TECHNOLOGY E108 COMPUTERS	720	
	900	TECHNOLOGY COMPUTERS	R	12	20/1	65	C	66	20/1	12	R	TECHNOLOGY E108 COMPUTERS	720	
	720	TECHNOLOGY COMPUTERS	R	12	20/1	67	A	68	20/1	12	R	TECHNOLOGY E108 COMPUTERS	720	
	900	TECHNOLOGY COMPUTERS	R	12	20/1	69	B	70	20/1	12	R	TECHNOLOGY E108 COMPUTERS	900	
	720	TECHNOLOGY COMPUTERS	R	12	20/1	71	C	72	20/1	12	R	RECEPTACLES - TECHNOLOGY E108	720	
	720	TECHNOLOGY COMPUTERS	R	12	20/1	73	A	74	20/1	12	R	EXTERIOR WP/GFCI	180	
		SPARE		12	20/1	75	B	76	20/1	12	R	PREP AC R	360	
		SPARE		12	20/1	77	C	78	20/1	12	R	PREP AC R	540	
		SPARE		12	20/1	79	A	80	20/1	12	R	MM1 RECEPTACLE - TECHNOLOGY E127	360	
		SERVER RECEPTACLE	R	10	30/2	81	B	82	20/1	12	R	FUME HOOD - LAB E109	500	
	-	-	-	-	-	83	C	84	20/1	12	R	SERVER RECEPTACLE	360	
	22,444	Subtotal										Subtotal	16,700	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	39,144		24,572	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 39,144 VA = 108.7 AMPS
Total Load (Diversified)= 50,246 VA = 139.6 AMPS

Location of Panel:

Panelboard L2E

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 150 AMP MCB
MLO 150 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH	OKT #	CB	Wire	Type	Description	Load (VA)	Notes
	500	MM1	R	12	20/1	1	A	2	20/1	12	F	KEF-E1	1580	
	500	MM1	R	12	20/1	3	B	4						
	500	MM1	R	12	20/1	5	C	6	20/1	12	R	SPACE		
	500	MM1	R	12	20/1	7	A	8	20/1	12	F	KEF-E2	1580	
	500	MM1	R	12	20/1	9	B	10						
	500	MM1	R	12	20/1	11	C	12	20/1	12	R	SPACE		
	500	MM1	R	12	20/1	13	A	14	20/1	12	F	KEF-E3	1580	
	500	MM1	R	12	20/1	15	B	16						
	500	MM1	R	12	20/1	17	C	18	20/1	12	R	SPACE		
	500	MM1	R	12	20/1	19	A	20	20/1	12	R	EPO	500	
	500	MM1	R	12	20/1	21	B	22	20/1	12	R	SPACE		
	500	MM1	R	12	20/1	23	C	24	20/1	12	R	EPO	500	
	500	MM1	R	12	20/1	25	A	26	20/1	12	R	SPACE		
	500	MM1	R	12	20/1	27	B	28	20/1	12	R	PREP STORAGE	360	
	500	MM1	R	12	20/1	29	C	30	20/1	12	R	PREP STORAGE	360	
	3000	IDF L6-30R	R	12	20/2	31	A	32	20/2	12	R	IDF L6-30R	3000	
						33	B	34						
	360	IDF R	R	12	20/1	35	C	36	20/1	12	R	IDF QUAD	360	
	180	IDF R	R	12	20/1	37	A	38	20/1	12	R	PREP AC R	360	
	180	EDF	R	12	20/1	39	B	40	20/1	12	M	OVERHEAD SECURTIY COILING GRILLE	1000	
	180	PREP STORAGE R	R	12	20/1	41	C	42	20/1	12	R	PREP AC R	540	
	900	ROOF SERVICE RECEPTACLE	R	12	20/1	43	A	44	20/2	12	C	CU-E	2762	
	696	EF-E-RR3	F	12	20/1	45	B	46						
	696	EF-E-RR2	F	12	20/1	47	C	48	20/1	12	R	SPACE		
	696	EF-E-RR1	F	12	20/1	49	A	50	20/2	12	C	CU-E2	2762	
		SPARE	R	12	20/1	51	B	52						
		SPARE	R	12	20/1	53	C	54	20/1	12	R	SPACE		
		SPARE	R	12	20/1	55	A	56	20/1	12	R	TECHNOLOGY CORD REELS	180	
		SPARE	R	12	20/1	57	B	58	20/1	12	R	TECHNOLOGY CORD REELS	180	
		SPARE	R	12	20/1	59	C	60	20/1	12	R	TECHNOLOGY CORD REELS	180	
	14,388	Subtotal										Subtotal	17,784	

N.E.C.	Load Type	Conn.	Fct	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	18,820		14,410	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	5,524	100%	5,524	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	6,828	100%	6,828	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	1,000	100%	1,000		(SP) Sub Panel	0	100%	0

Total Connected Load = 32,172 VA = 89.4 AMPS
Total Load (Diversified)= 27,762 VA = 77.1 AMPS

Location of Panel:

Panelboard LD

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 250 AMP MCB
MLO 250 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH	OKT #	CB	Wire	Type	Description	Load (VA)	Notes
	540	RCPT CLASSROOM	R	12	20/1	1	A	2	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	3	B	4	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR -D101	R	12	20/1	5	C	6	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D104	900	
	180	MM1 RECEPTACLE - CLASSROOM D101	M	12	20/1	7	A	8	20/1	12	M	MM1 RECEPTACLE - CLASSROOM D104	180	
	540	RCPT CLASSROOM	R	12	20/1	9	B	10	20/1	12	R	RCPT CLASSROOM	540	
	360	RCPT CLASSROOM	R	12	20/1	11	C	12	20/1	12	R	RCPT CLASSROOM	360	
	900	CLASSROOM RCPT/PROJECTOR -D100	R	12	20/1	13	A	14	20/1	12	R	CLASSROOM RCPT/PROJECTOR - D103	900	
	180	MM1 RECEPTACLE - CLASSROOM D100	M	12	20/1	15	B	16	20/1	12	M	MM1 RECEPTACLE - CLASSROOM D103	180	
	360	OFFICE R	R	12	20/1	17	C	18	20/1	12	K	MICROWAVE - LIFE SKILLS LAB E104	1800	
	360	OFFICE R	R	12	20/1	19	A	20	20/1	12	R	RCPT QUAD CLASSROOM - SPED E102	360	
	360	RR R	R	12	20/1	21	B	22	20/1	12	R	MM1 RECEPTACLE - SPED E102	180	
	900	CLASSROOM R - SPED E102	R	12	20/1	23	C	24	20/1	12	R	CLASSROOM R - SPED E102	540	
	540	CLASSROOM R	R	12	20/1	25	A	26	20/1	12	K	MICROWAVE - LIFE SKILLS LAB E104	1800	
	540	RECEPTACLES - LIFE SKILLS LAB E104	R	12	20/1	27	B	28	20/1	12	R	RECEPTACLES - LIFE SKILLS LAB E104	360	
	720	RECEPTACLES - LIFE SKILLS LAB E104	R	12	20/1	29	C	30	20/1	12	K	REFRIGERATOR - LIFE SKILLS LAB E104	1000	
	180	COUNTER TOP R - CLASSROOM E106	R	12	20/1	31	A	32	20/1	12	K	RANGE HOOD - LIFE SKILLS LAB E104	500	
	360	COUNTER TOP R - CLASSROOM E106	R	12	20/1	33	B	34	20/1	12	R	COUNTER TOP R	360	
	360	CLASSROOM R - CLASSROOM E106	R	12	20/1	35	C	36	20/1	12	R	COUNTER TOP R	360	
	360	CLASSROOM R - CLASSROOM E106	R	12	20/1	37	A	38	20/1	12	R	CLASSROOM R	360	
	540	CLASSROOM R - CLASSROOM E106	R	12	20/1	39	B	40	20/1	12	R	CLASSROOM R	360	
	540	CORRIDOR R	R	12	20/1	41	C	42	20/1	12	R	RR R	360	
	720	HOME EC R	R	12	20/1	43	A	44	20/1	12	R	COUNTER TOP R	360	
	1800	MICROWAVE	R	12	20/1	45	B	46	20/1	12	K	MICROWAVE - CAFETERIA	1800	
	1800	MICROWAVE	R	12	20/1	47	C	48	20/1	12	K	MICROWAVE - CAFETERIA	1800	
	1500	FRIDGE	R	12	20/1	49	A	50	20/1	12	K	MICROWAVE - CAFETERIA	1800	
	720	CAFETERIA R	R	12	20/1	51	B	52	20/1	12		SPARE		
	720	CAFETERIA R	R	12	20/1	53	C	54	20/1	12		SPARE		
	720	CAFETERIA R	R	12	20/1	55	A	56	20/1	12		SPARE		
	180	MM1 RECEPTACLE - CLASSROOM E106	R	12	20/1	57	B	58	20/1	12	R	RECEPTACLES - ART LAB E105	540	
	180	MM1 RECEPTACLE - CLASSROOM E106	R	12	20/1	59	C	60	20/1	12	R	RECEPTACLES - ART LAB E105	360	
		SPACE		12	20/1	61	A	62	20/1	12	R	RECEPTACLES - ART LAB E105	360	
		SPACE		12	20/1	63	B	64	20/1	12	R	RECEPTACLES - ART LAB E105	180	
		SPACE		12	20/1	65	C	66	20/1	12	R	RECEPTACLES - ART LAB E105	360	
		SPACE		12	20/1	67	A	68	20/1	12	R	EXTERIOR WP/GFCI	180	
	180	MS SCIENCE CORD REELS	R	12	20/1	69	B	70	20/1	12	R	EXTERIOR WP/GFCI	360	
	180	MS SCIENCE CORD REELS	R	12	20/1	71	C	72	20/1	12	R	EXTERIOR WP/GFCI	180	
	180	MS SCIENCE CORD REELS	R	12	20/1	73	A	74	20/1	12	R	STORAGE R	180	
	180	MS SCIENCE CORD REELS	R	12	20/1	75	B	76	20/2	12	R	FCU-E1	2762	
	360	RR R	R	12	20/1	77	C	78						
	180	CORRIDOR R	R	12	20/1	79	A	80						
	360	PROJECTOR SCREEN	R	12	20/1	81	B	82	30/3	10	M	SPD2		
	360	PROJECTOR SCREEN	R	12	20/1	83	C	84						
	20,400	Subtotal										Subtotal	23,522	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	32,702		21,361	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	10,500	65%	6,825		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	720	100%	720		(SP) Sub Panel	0	100%	0

Total Connected Load = 43,922 VA = 122.0 AMPS
Total Load (Diversified)= 55,078 VA = 153.0 AMPS

Location of Panel:

Panelboard LD2

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 100 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	OKT #	PH	OKT #	CB	Wire	Type	Description	Load (VA)	Notes
	900	ROOF SERVICE RECEP	R	12	20/1	1	A	2	20/1	12	R	CORRIDOR R	360	
		SPARE	R	12	20/1	3	B	4	20/1	12	M	SPED R AND PROJECTOR	860	
		SPARE		12	20/1	5	C	6	20/1	12	MT	OVERHEAD SECURTIY COILING GRILLE	1000	
		SPARE	R	12	20/1	7	A	8	20/1	12		SPARE		
	180	MS SCIENCE CORD REELS	R	12	20/1	9	B	10	20/1	12		SPARE		
	180	MS SCIENCE CORD REELS	R	12	20/1	11	C	12	20/1	12	M	H-LOGO BACKLIGHT SIGN	1500	1
	180	MS SCIENCE CORD REELS	R	12	20/1	13	A	14	15/1	12	F	EF-C1	696	
	180	MS SCIENCE CORD REELS	R	12	20/1	15	B	16	20/1	12	F	KEF-1	1920	
	180	FURNITURE STORAGE R	R	12	20/1	17	C	18	20/1	12	F	EF-C-JAN	696	
	1080	STAGE R	R	12	20/1	19	A	20	20/1	12	F	EF-D-S2	696	
	300	OVERHEAD PROJECTOR	R	12	20/1	21	B	22	20/1	12	F	EF-D-S3	696	
	900	STAGE R	R	12	20/1	23	C	24	20/1	12	F	EF-D-RR2	696	
	180	CORRIDOR R	R	12	20/1	25	A	26	20/1	12	F	EF-D-RR1	696	
	180	STAGE R	R	12	20/1	27	B	28	20/1	12	F	EF-D1	696	
	3000	EUH-1	H	12	20/1	29	C	30	20/1	12		SPACE		
						31	A	32	20/1	12		SPACE		
		SPARE		12	20/1	33	B	34	20/1	12		SPACE		
	1500	EQ1	R	12	20/1	35	C	36	20/1	12		SPACE		
	1000	MM1	R	12	20/1	37	A	38	20/1	12		SPACE		
	1000	PROJECTION SCREEN	R	12	20/1	39	B	40	20/1	12		SPACE		
	1000	COPIER	M	12	20/1	41	C	42	20/1	12		SPACE		
	696	EF-SC-E3	F	12	20/1	43	A	44						
	696	EF-E1	F	12	20/1	45	B	46						
	696	EF-SC-E1	F	12	20/1	47	C	48						
	696	EF-D-S1	F	12	20/1	49	A	50						
	696	EF-D-S2	F	12	20/1	51	B	52						
						53	C	54						
						55	A	56						
						57	B	58						
						59	C	60						
	15,420	Subtotal										Subtotal	10,512	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	8,300		8,300	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	3,000	100%	3,000		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	10,272	100%	10,272	220.50	(MT) Lrg. Mot.	1,000	125%	1,250
	(M) Misc.	3,360	100%	3,360		(SP) Sub Panel	0	100%	0

Total Connected Load = 25,932 VA = 72.0 AMPS
Total Load (Diversified)= 26,182 VA = 72.7 AMPS

Location of Panel:

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:
CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242
LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335
STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461
MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
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Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200
INFORMATION TECHNOLOGY:
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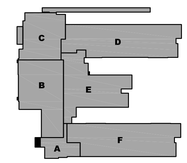
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

RYAN G. MILLER
131159
ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL PANEL SCHEDULES

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000

RM | IL/CQ | MK/AB | CG/CR | --

E5.05

Panelboard EHD

22,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB X MLO 400 AMP MCB AMP BUS (Copper)

X Single
X Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	1449	LGTS F100, F102- F128	L	12	20/1	1	A	2						
	1825	LGTS A101- A103, E100-E131	L	12	20/1	3	B	4	25/3	12	M	ELD		
	1068	LGTS D100- D129	L	12	20/1	5	C	6						
	1760	EMERGENCY LIGHTS AREA D	L	12	20/1	7	A	8	20/1	12	L	EXTERIOR EMERGENCY LIGHTS	750	
	1817	EMERGENCY LIGHTS AREA E	L	12	20/1	9	B	10						
		SPARE	L	12	20/1	11	C	12	25/3	12	M	JOCKEY PUMP	1743	
		SPARE	L	12	20/1	13	A	14						
		SPARE	L	12	20/1	15	B	16	20/1	12		SPACE		
		SPARE	L	12	20/1	17	C	18	20/1	12		SPARE		
		SPARE	L	12	20/1	19	A	20						
		SPARE	L	12	20/1	21	B	22	30/3	10	M	SPD3		
	880	EMERGENCY LIGHTS AREA C	L	12	20/1	23	C	24						
	8,799	Subtotal							Subtotal				2,493	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	9,549	125%	11,936
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	1,743	100%	1,743		(SP) Sub Panel	0	100%	0

Total Connected Load = 11,292 VA = 13.6 AMPS
Total Load (Diversified)= 27,180 VA = 32.7 AMPS

Location of Panel:

Panelboard EHE

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB X MLO 100 AMP MCB AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	500	ELE	M	10	25/3	1	A	2	20/1	12		SPARE		
						3	B	4	20/1	12		SPARE		
						5	C	6	20/1	12		SPARE		
	2530	EMERGENCY LIGHTS AREA E	L	12	20/1	7	A	8	20/1	12		SPARE		
		SPACE		12	20/1	9	B	10	20/1	12		SPARE		
		SPACE		12	20/1	11	C	12	20/1	12		SPARE		
		SPACE		12	20/1	13	A	14	20/1	12		SPARE		
		SPACE		12	20/1	15	B	16	20/1	12		SPARE		
		SPACE		12	20/1	17	C	18	20/1	12		SPARE		
		SPACE		12	20/1	19	A	20						
		SPACE		12	20/1	21	B	22	30/3	10	M	SPD3		
		SPACE		12	20/1	23	C	24						
	3,030	Subtotal							Subtotal				0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	2,530	125%	3,163
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	500	100%	500		(SP) Sub Panel	0	100%	0

Total Connected Load = 3,030 VA = 3.6 AMPS
Total Load (Diversified)= 3,683 VA = 4.4 AMPS

Location of Panel:

Panelboard EHF

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB X MLO 100 AMP MCB AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	1272	EMERGENCY LIGHTS AREA F	L	12	20/1	1	A	2	20/1	12		SPARE		
	1000	EMERGENCY LIGHTS AREA A	L	12	20/1	3	B	4	20/1	12		SPARE		
	2072	EMERGENCY LIGHTS AREA B	L	12	20/1	5	C	6	20/1	12		SPARE		
						7	A	8	20/1	12		SPARE		
	0	ELF	M	10	25/3	9	B	10	20/1	12		SPARE		
						11	C	12	20/1	12		SPARE		
	750	EMERGENCY EXTERIOR LIGHTS	L	12	20/1	13	A	14	20/1	12		SPARE		
		SPACE		12	20/1	15	B	16	20/1	12		SPARE		
		SPACE		12	20/1	17	C	18	20/1	12		SPARE		
		SPACE		12	20/1	19	A	20						
		SPACE		12	20/1	21	B	22	30/3	10	M	SPD3		
		SPACE		12	20/1	23	C	24						
	5,094	Subtotal							Subtotal				0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	5,094	125%	6,368
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 5,094 VA = 6.1 AMPS
Total Load (Diversified)= 6,368 VA = 7.7 AMPS

Location of Panel:

Panelboard MPZ

18,000 AIC Rating
Existing
X New

120/240 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB X MLO 30 AMP MCB 30 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	180	SERVICE RECEPTACLE		12	20/1	1	A	2	20/1	12		SPARE		
		SPACE		12	20/1	3	B	4	20/1	12		SPARE		
		SPACE		12	20/1	5	C	6	20/1	12		SPARE		
		SPACE		12	20/1	7	A	8	20/1	12		SPARE		
		SPACE		12	20/1	9	B	10	20/1	12		SPARE		
	180	Subtotal							Subtotal				0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 0 VA = 0.0 AMPS
Total Load (Diversified)= 0 VA = 0.0 AMPS

Location of Panel:

Panelboard ELD

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 60 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
		SPACE		12	20/1	1	A	2	20/1	12		SPARE		
		SPACE		12	20/1	3	B	4	20/1	12		SPARE		
		SPACE		12	20/1	5	C	6	20/1	12		SPARE		
		SPACE		12	20/1	7	A	8						
		SPACE		12	20/1	9	B	10	30/3	10	M	SPD2		
		SPACE		12	20/1	11	C	12						
	0	Subtotal							Subtotal				0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 0 VA = 0.0 AMPS
Total Load (Diversified)= 0 VA = 0.0 AMPS

Location of Panel:

Panelboard ELE

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 60 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	500	FACP	M	12	20/1	1	A	2	20/1	12		SPARE		
	1500	ERCS	M	12	20/1	3	B	4	20/1	12		SPARE		
	1500	ERCS	M	12	20/1	5	C	6	20/1	12		SPARE		
		SPACE		12	20/1	7	A	8						
		SPACE		12	20/1	9	B	10	30/3	10	M	SPD2		
		SPACE		12	20/1	11	C	12						
	3,500	Subtotal							Subtotal				0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	3,500	100%	3,500		(SP) Sub Panel	0	100%	0

Total Connected Load = 3,500 VA = 9.7 AMPS
Total Load (Diversified)= 3,500 VA = 9.7 AMPS

Location of Panel:

Panelboard ELF

22,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire
1 Section
1 -Nema Rating

X MCB 60 AMP MCB
MLO 100 AMP BUS (Copper)

X Single
Double
Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
		SPACE		12	20/1	1	A	2	20/1	12		SPARE		
		SPACE		12	20/1	3	B	4	20/1	12		SPARE		
		SPACE		12	20/1	5	C	6	20/1	12		SPARE		
		SPACE		12	20/1	7	A	8						
		SPACE		12	20/1	9	B	10	30/3	10	M	SPD2		
		SPACE		12	20/1	11	C	12						
	0	Subtotal							Subtotal				0	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load = 0 VA = 0.0 AMPS
Total Load (Diversified)= 0 VA = 0.0 AMPS

Location of Panel:

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

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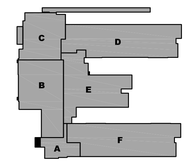
The Woodlands, TX 77380
Phone: 281-350-2323

RYAN G. MILLER
131756
LICENSED
PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

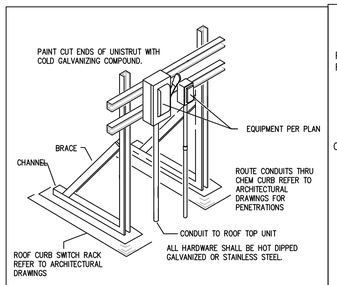
No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

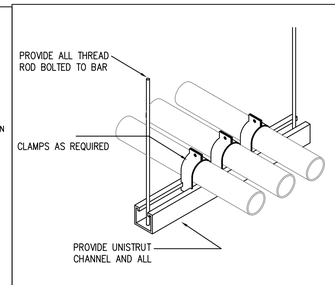
ELECTRICAL SPECIFICATIONS

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

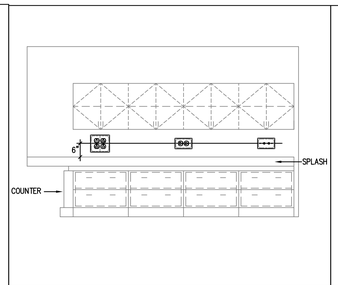
E5.06



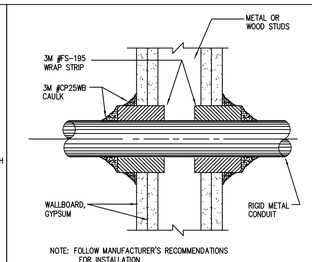
0 ROOF UNISTRUT RACK DETAIL
NOT TO SCALE E10015



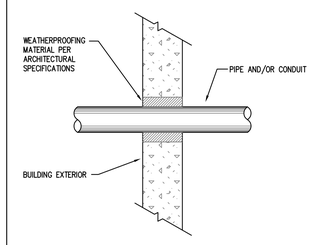
1 UNISTRUT CONDUIT DETAIL
NOT TO SCALE



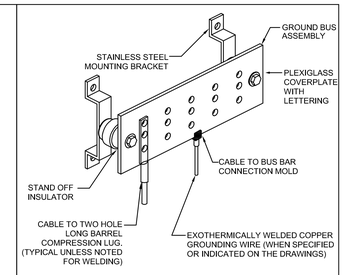
2 TYPICAL COUNTERTOP DEVICE ELEVATION
NOT TO SCALE E13009



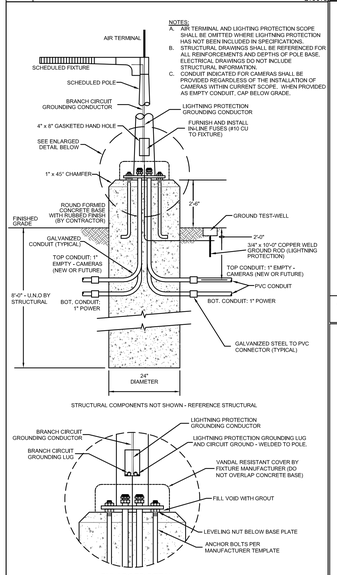
3 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE E10017



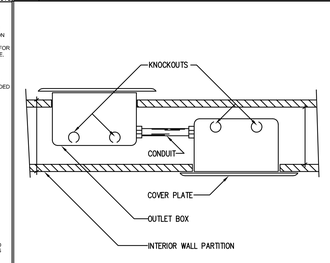
4 PIPE AND/OR CONDUIT PENETRATION
NOT TO SCALE E10018



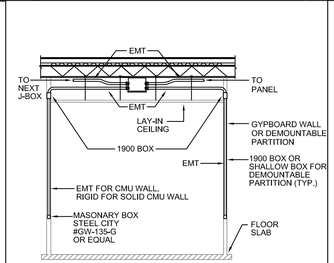
5 TECHNICAL GROUND BAR DETAIL
NOT TO SCALE



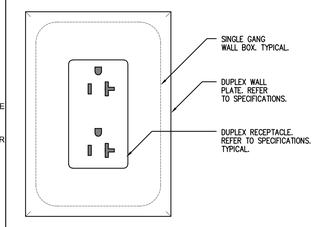
6 CONCRETE POLE BASE DETAIL 1
NOT TO SCALE E14009



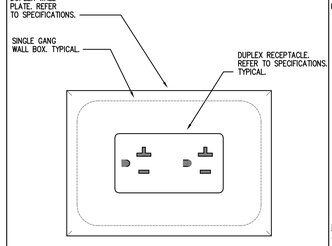
7 BACK-TO-BACK OUTLETS
NOT TO SCALE E13022



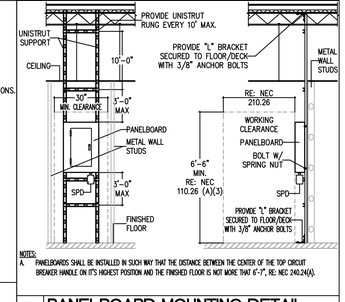
8 A-A SECTION OF TYPICAL RACEWAY CONFIGURATION
NOT TO SCALE E20007



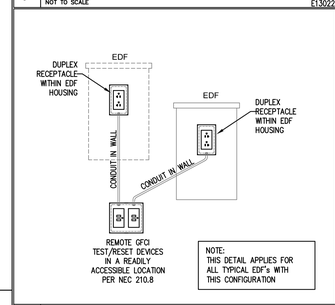
9 TYPICAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE E13018



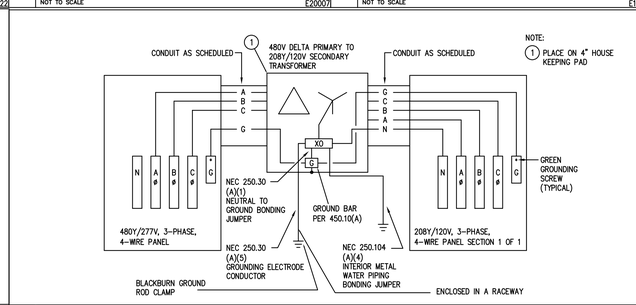
10 HORIZONTAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE E13016



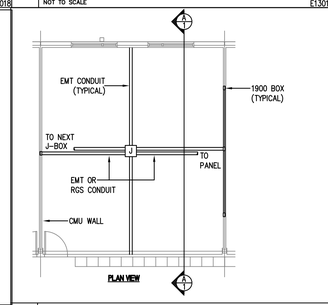
11 PANELBOARD MOUNTING DETAIL
NOT TO SCALE E22002



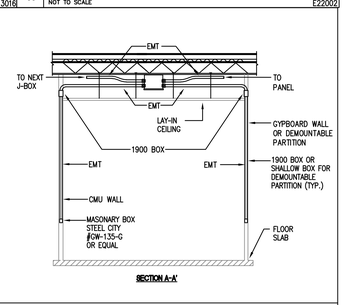
12 ELEC. DRINKING FOUNTAIN DETAIL
NOT TO SCALE E13008

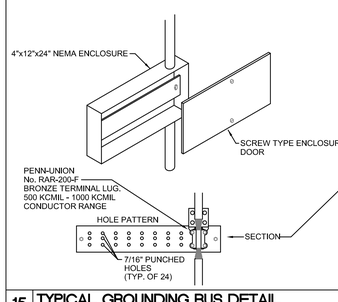


13 TRANSFORMER WIRING SCHEMATIC
NOT TO SCALE E11001



14 TYP. RACEWAY CONFIGURATION
NOT TO SCALE E18001





15 TYPICAL GROUNDING BUS DETAIL
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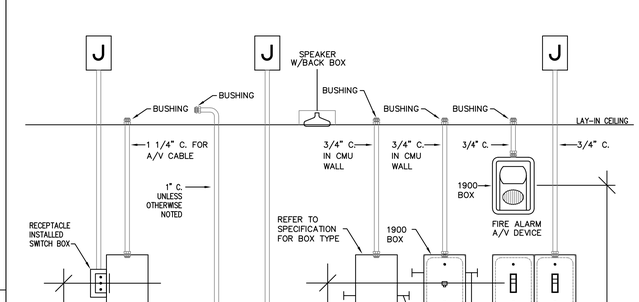
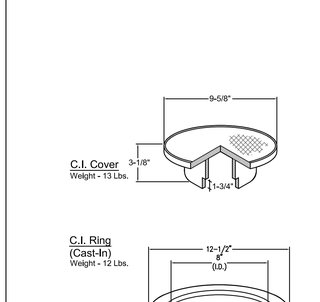
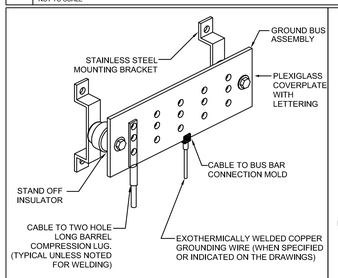


16 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE E11001



17 GROUND TESTWELL ENCLOSURE DETAIL
NOT TO SCALE E16001



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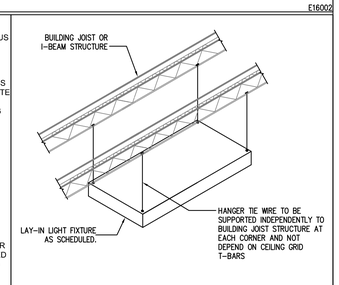
NOT TO SCALE



19 LIGHTING FIXTURE SUPPORT DETAIL
NOT TO SCALE E14024

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
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FOOD SERVICE DESIGN:
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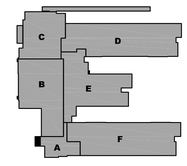
RYAN G. MILLER, 131159, LICENSED PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

ELECTRICAL DETAILS

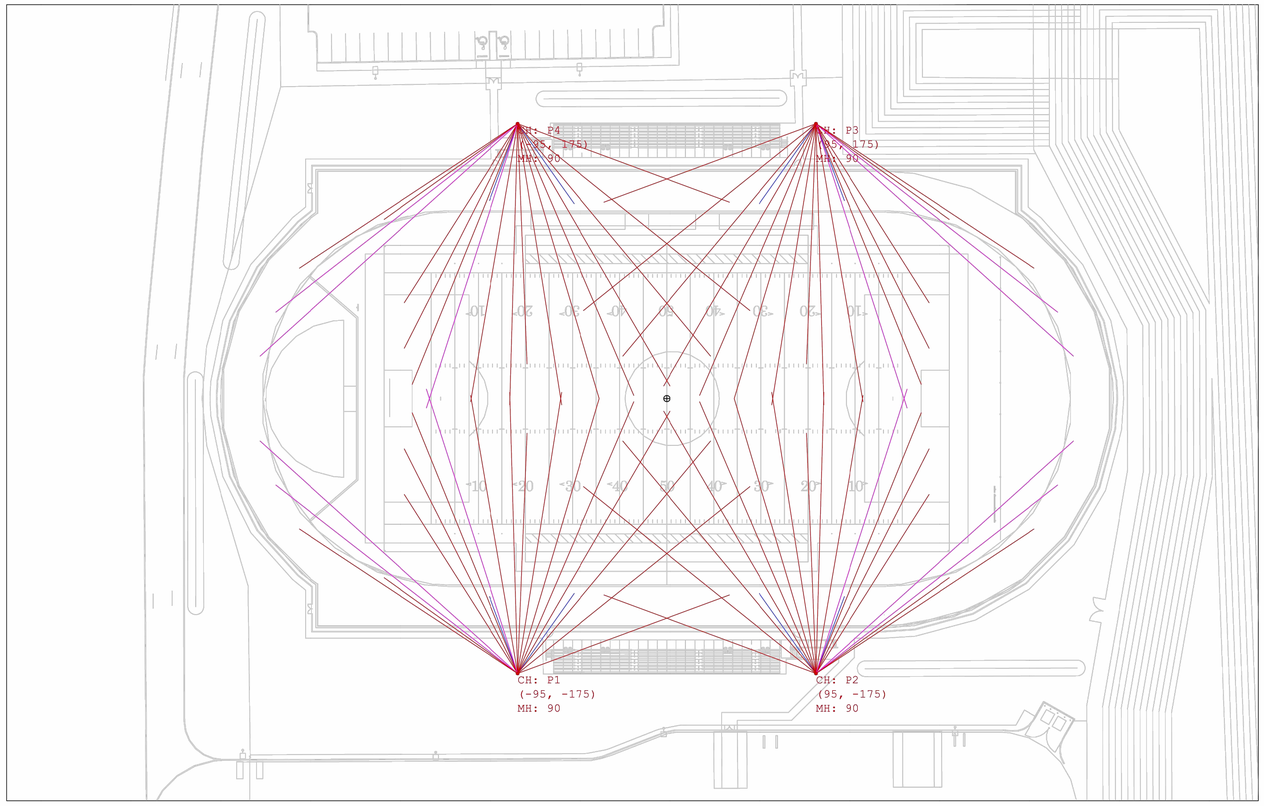
DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project# 254026.000
RM | IL/CQ | MK/AB | CG/CR | ---

E6.01

Luminaire Schedule						
Scenario: CHM Lighting						
Label	**Symbol**	**Qty**	**LLF**	**Arrangement**	**Description**	**Lum. Watts**
NEMA 2	⊙	12	0.950	Single	USR2800GXX70N21GC	770
NEMA 3	⊙	60	0.950	Single	USR2800GXX70N31GC	770
NEMA 4	⊙	8	0.950	Single	USR2800GXX70N41GC	770

Calculation Summary										
Scenario: CHM Lighting										
Label	**CalcType**	**Units**	**Avg**	**Max**	**Min**	**Avg/Min**	**Max/Min**	**# Pts**	**PtSpcLr**	**PtSpcTb**
Football Field	Illuminance	Fc	54.2	60	46	1.2	1.3	72	30	30
Track	Illuminance	Fc	31.0	40	16	1.9	2.5	69	20	N.A.

Scenario/Channel Summary			
Scenario: CHM Lighting			
Channel	**M.H.**	**# Lums**	**Total kW**
P1	90'	20	15.40 kW
P2	90'	20	15.40 kW
P3	90'	20	15.40 kW
P4	90'	20	15.40 kW



Overview
Scale: 1 inch= 75 Ft.

GIGNAC | ARCHITECTS
TBAE - BR 1221
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CORPUS CHRISTI, TEXS 78401
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F 361.884.4232
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STATE OF TEXAS
RYAN G. MILLER
131259
LICENSED
PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

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SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
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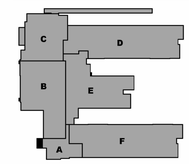
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
Drawn:	RD
Checked:	RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

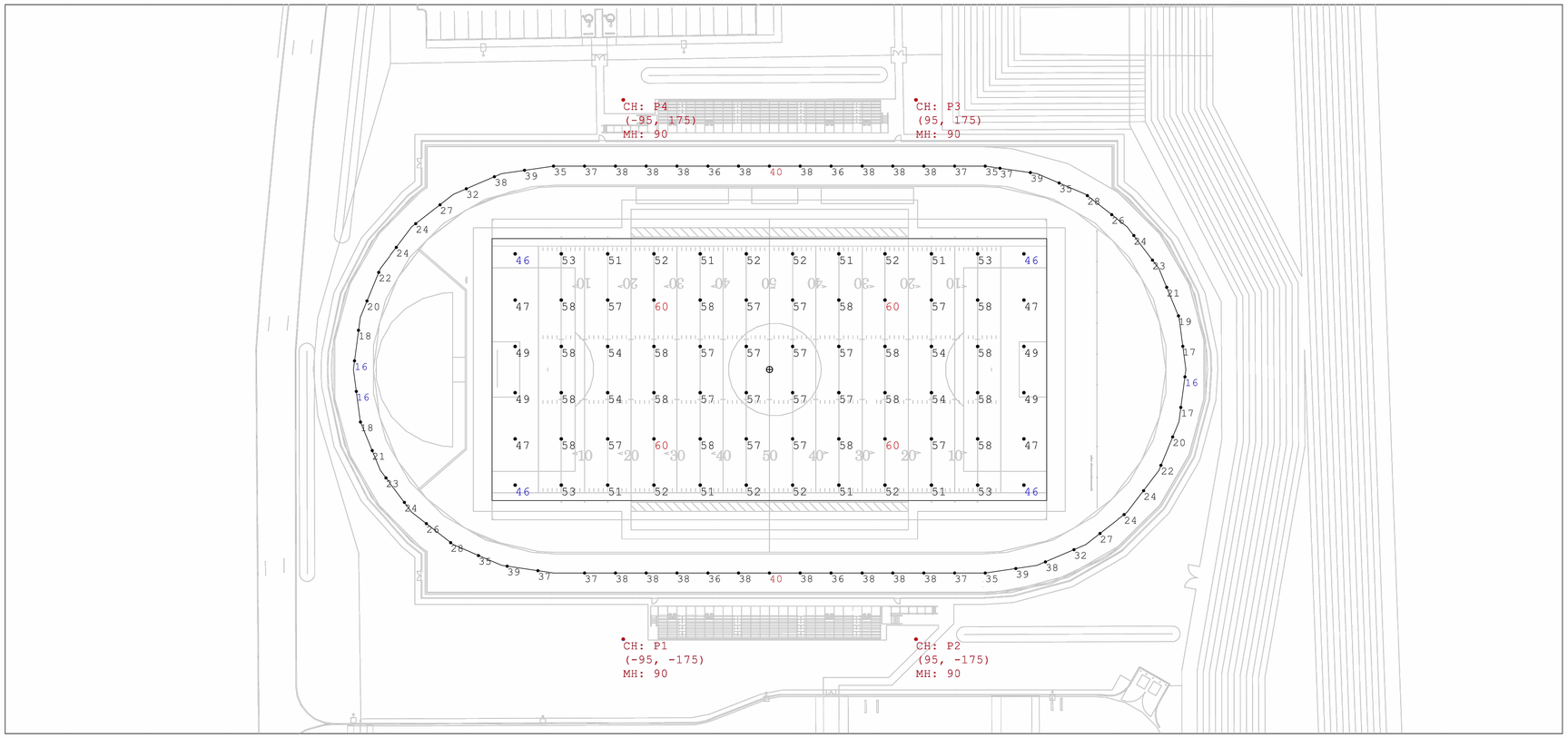
SPORTS LIGHTING

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#: 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

E7.01

Luminaire Schedule						
Scenario: CHM Lighting						
Label	**Symbol**	**Qty**	**LLF**	**Arrangement**	**Description**	**Lum. Watts**
NEMA 2	⊙	12	0.950	Single	USR2800GXX70N21GC	770
NEMA 3	⊙	60	0.950	Single	USR2800GXX70N31GC	770
NEMA 4	⊙	8	0.950	Single	USR2800GXX70N41GC	770

Calculation Summary										
Scenario: CHM Lighting										
Label	**CalcType**	**Units**	**Avg**	**Max**	**Min**	**Avg/Min**	**Max/Min**	**# Pts**	**PtSpcLr**	**PtSpcTb**
Football Field	Illuminance	Fc	54.2	60	46	1.2	1.3	72	30	30
Track	Illuminance	Fc	31.0	40	16	1.9	2.5	69	20	N.A.



Football Field and Track
Scale: 1 inch= 70 Ft.

GIGNAC | ARCHITECTS
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07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
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VILLAGE PKWY, SPRING ,
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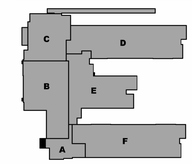

KEYPLAN

Project Number:	24.23
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SPORTS LIGHTING

DBR
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DBR Project#: 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

E7.02

PLUMBING SYMBOLS AND ABBREVIATIONS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT
AW	ACID WASTE
AUX	AUXILIARY

B

B	BOILER
BFF	BELOW FINISH FLOOR
BFV	BUTTERFLY VALVE
BM	BENCH MARK
BOB	BOTTOM OF BEAM
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CP	CIRCULATING PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CRAC	COMPUTER ROOM A/C UNIT
CW	COLD WATER

D

DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DBP	DOMESTIC BOOSTER PUMP

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FLEX	FLEXIBLE
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER
FS	FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GLV	GLOBE VALVE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HP	HORSEPOWER
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LT	LINT
LP	LOW PRESSURE OR LIQUID PROPANE LEVEL
LVL	

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MS	MOP SINK
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK
O	MEDICAL OXYGEN

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PNEU	PNEUMATIC
PNL	PANEL
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
REINF	REININGFORCING
REQD	REQUIRED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SIM	SIMILAR
SK	SINK
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER
SOV	SHUT-OFF VALVE

T

TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TCO	TRAFFIC CLEANOUT
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TYP	TYPICAL

U

U	URINAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UF	UNDERFLOOR
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM (MEDICAL)
VB	VACUUM BREAKER, VALVE BOX
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VP	VACUUM PUMP
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WSFU	WATER SUPPLY FIXTURE UNITS
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER METER OR SUB-METER

PLUMBING SYSTEMS

- SANITARY DRAIN (BELOW FLOOR/SLAB)
- S(E) — EXISTING SANITARY OR WASTE PIPING (BELOW FLOOR/SLAB) S(E)
- SANITARY DRAIN (ABOVE FLOOR)
- S(E) — EXISTING SANITARY OR WASTE PIPING (ABOVE FLOOR) S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE (ABOVE CEILING)
- GW — GREASE WASTE (BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD(E) — EXISTING STORM DRAIN(ABOVE CEILING) SD(E)
- SD — STORM DRAIN(BELOW FLOOR/SLAB)
- SD — STORM DRAIN(BELOW FLOOR/SLAB)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD(E) — EXISTING OVERFLOW DRAIN(ABOVE CEILING) OD(E)
- OD — OVERFLOW DRAIN(BELOW FLOOR/SLAB)
- OD(E) — EXISTING OVERFLOW DRAIN(BELOW FLOOR/SLAB) OD(E)
- AW — ACID WASTE(ABOVE CEILING)
- AW(E) — EXISTING ACID WASTE PIPING A.G. AW(E)
- AW — ACID WASTE(BELOW FLOOR)
- AW(E) — EXISTING ACID WASTE PIPING B.G. AW(E)
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV(E) — EXISTING ACID VENT PIPING AV(E)
- COLD WATER CW
- NP-CW — NON-POTABLE – COLD WATER
- CW(E) — EXISTING DOMESTIC COLD WATER CW(E)
- HOT WATER HW
- HW(E) — EXISTING DOMESTIC HOT WATER HW(E)
- HOT WATER RECIRCULATION
- HWR(E) — EXISTING DOMESTIC HOT WATER RETURN HWR(E)
- G (4oz) — NATURAL GAS
- G (2 PSI) — NATURAL GAS
- G (5 PSI) — NATURAL GAS
- TW — TEMPERED WATER
- A — COMPRESSED AIR
- MA — MEDICAL AIR
- MO — MEDICAL OXYGEN
- MV — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE, WET AUTOMATIC FIRE SPRINKLER
- FW — FORCE WASTE
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- PX.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN / SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER / SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

GENERAL PLUMBING NOTES

1. UNLESS NOTED OTHERWISE, UNDER THE UPC GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4" PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS 1/8" PER FOOT UNIFORM SLOPE UNDER THE IPC GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4" PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" TO 6" SHALL BE SLOPED AT 1/8" PER FOOT AND 8" AND LARGER SHALL BE PROVIDED AT NO LESS 1/16" PER FOOT UNIFORM SLOPE
2. WHERE THE PREVAILING CODE ALLOWS FOR A SHALLOWER SLOPE FOR GRAVITY DRAINAGE PIPING THAN INDICATED ABOVE, THIS SHALL BE ALLOWED IF REQUIRED PER PROJECT CONDITIONS.
3. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE FOR GRAVITY DRAINAGE PIPING THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT(S) SHALL CONTROL.
4. UNLESS NOTED OTHERWISE, GRAVITY STORM DRAINAGE AND SECONDARY (OVERFLOW) PIPING SHALL BE PROVIDED AT NO LESS THAN 1/8" PER FOOT UNIFORM SLOPE.
5. FUEL GAS PIPING SHALL BE PROVIDED IN ACCORDANCE WITH THE PREVAILING GAS CODE OR NFPA 54, WHICHEVER REQUIREMENTS ARE MORE STRINGENT.
6. THE INSTALLATION OF THE BUILDING PLUMBING SYSTEMS SHALL BE COORDINATED ACCORDINGLY WITH THE WORK OF ALL OTHER TRADES.

GENERAL FIRE PROTECTION NOTE

AN APPROPRIATELY STATE REGISTERED FIRE PROTECTION COMPANY SHALL PROVIDE A FULLY COMPLIANT AND FUNCTIONAL AUTOMATIC FIRE SPRINKLER SYSTEM TO PROTECT THE BUILDING IN ACCORDANCE WITH NFPA 13, THE PROJECT SPECIFICATIONS, AND THE REQUIREMENTS OF THE OWNER AND THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ). THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

PLUMBING CODE

2021	IPC
2021	IFC
2021	IECC

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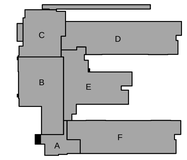

KEYPLAN

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PLUMBING SYMBOL LEGEND

P0.01

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GENERAL WORK NOTES:

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC: GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC: GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
12. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS, THE APPLICABLE INSTALLATION STANDARDS, AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT PRODUCTS.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE "K" PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
18. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
19. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
20. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
21. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
22. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
23. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN (FOR RENOVATIONS) SHALL GOVERN THE EXTENT AND NATURE OF WORK.
24. FOR RENOVATIONS THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
25. RENOVATIONS SITE INSPECTIONS: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

FIXTURE NOTES:

1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN.
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

SITE UTILITY NOTES:

1. REFER TO CIVIL DRAWINGS FOR CONTINUATION OF DOMESTIC WATER, FIRE PROTECTION WATER, STORM, AND SANITARY WASTE UTILITIES.
2. REFER TO CIVIL DRAWINGS FOR LOCATION(S) OF WATER METER(S).
3. REFER TO CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION(S).
4. ALL INVERT ELEVATIONS INDICATED ARE RELATIVE TO THE FINISHED FLOOR ELEVATION OF THE BUILDING SLAB AT THEIR RESPECTIVE LOCATIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
5. INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE FINAL INVERT ELEVATIONS OF GRAVITY OUTFALLS WITH SITE UTILITY CONTRACTOR. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO AVAILABLE SITE UTILITIES.
6. ROLL-DOWN AS NECESSARY AND PROVIDE PIPE, FITTINGS, AND ADAPTERS AS REQUIRED TO MAKE PROPER CONNECTIONS TO SITE UTILITY LINES.
7. PROVIDE SCHEDULE 40 SOLID WALL PVC SLEEVES FOR ALL INCOMING GAS SERVICE PIPING TO BE ROUTED BELOW CONCRETE, ASPHALT, OR PAVING. SLEEVES SHALL BE NO SMALLER THAN TWO TIMES THE DIAMETER OF THE GAS PIPING TO BE SERVED. PROVIDE 4'-0" X 4'-0" TEMPORARY LEAVE-OUTS IN THE PAVING AT ALL CHANGES IN DIRECTION ALONG THE ROUTE OF THE SLEEVING. ENSURE ALL SLEEVES ARE MAINTAINED FREE FROM DIRT AND DEBRIS, CAPPED AT BOTH ENDS, AND CLEARLY LABELED. FILL LEAVE-OUTS TO MATCH FINISHED CONDITIONS. THESE GENERAL GUIDELINES SHALL NOT SUPERCEDE THE LOCAL GAS PROVIDER'S REQUIREMENTS, WHICH SHALL GOVERN THE INSTALLATION OF ALL SLEEVING.
8. FIELD COORDINATE/CONFIRM THE ROUTING AND INSTALLATION OF GAS SERVICE PIPING WITH THE LOCAL UTILITY PROVIDER PRIOR TO ANY SITE PAVING WORK. MAKE ADJUSTMENTS AS REQUIRED.

KITCHEN NOTES:

1. ALL DOMESTIC WATER LINES ROUTED BELOW SLAB SHALL BE SOFT TYPE K COPPER WATER TUBE CONTINUOUS WITH NO JOINTS BELOW SLAB. PROVIDE CORROSION PROTECTION PER SPECIFICATIONS FOR ALL BURIED TUBE AND EXTEND PROTECTION UP TO 6 INCHES ABOVE FINISHED SLAB.
2. PROVIDE AN ACCESSIBLE MANUAL GAS SHUTOFF VALVE UPSTREAM OF EACH ANSUL VALVE THAT IS TO BE INSTALLED IN CONJUNCTION WITH A KITCHEN HOOD FIRE SUPPRESSION SYSTEM, SPECIFIED BY OTHERS.
3. GAS PIPING TO SERVE EQUIPMENT COOK LINES SHALL BE ROUTED LOW AND SECURED TO THE FACE OF THE WALL BEHIND THE APPLIANCES. FOR EACH EQUIPMENT GAS INLET, PROVIDE AN ACCESSIBLE LINE SIZED SHUT OFF VALVE AND ANSI Z21.69 LISTED, COMMERCIAL-GRADE MOVEABLE GAS CONNECTOR IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NOTE THAT SOME APPLIANCES MAY REQUIRE MORE THAN ONE CONNECTION.
4. COORDINATE IN FIELD TO ENSURE THAT ALL INDIRECT WASTE RECEPTORS ARE PROPERLY POSITIONED WITH REGARD TO THE FIXTURES AND/OR EQUIPMENT THEY ARE INTENDED TO SERVE. MAKE ADJUSTMENTS AS REQUIRED. INSTALLATIONS WHERE SUPPORT FEET/CASTERS FOR APPLIANCES, EQUIPMENT, COUNTERTOPS, ETC., REST UPON DRAIN STRAINERS, GRATES, OR RIMS SHALL BE CONSIDERED UNACCEPTABLE. SUCH INSTALLATIONS SHALL BE CORRECTED SOLELY AT THE CONTRACTOR'S EXPENSE.
5. COORDINATE IN FIELD TO ENSURE THAT ALL DRAINS LOCATED IN AREAS OF SLOPED OR DEPRESSED SLABS ARE PROPERLY POSITIONED FOR THE INTENDED DRAINAGE. MAKE ADJUSTMENTS AS REQUIRED.
6. FOR ANY UNDERSLAB BEVERAGE LINES: PROVIDE MINIMUM 6 INCH SCHEDULE 40 SOLID WALL PVC PIPE SLEEVES WITH LONG RADIUS FITTINGS. EXTEND LINES TO A MINIMUM OF 6 INCHES ABOVE FINISHED FLOOR AT BOTH ENDS. CONFIRM FINAL REQUIREMENTS, COORDINATE WITH OTHER UNDERSLAB PIPING AND BUILDING ELEMENTS, AND MAKE ADJUSTMENTS AS REQUIRED PRIOR TO ROUGH-IN. CAP PIPE ENDS DURING CONSTRUCTION TO PREVENT DEBRIS AND WATER FROM ENTERING PIPE SLEEVES.
7. PROVIDE BACKFLOW PREVENTION AT CONNECTIONS TO ALL KITCHEN EQUIPMENT AS REQUIRED BY CODE AND AS RECOMMENDED BY KITCHEN EQUIPMENT MANUFACTURER(S). ROUTE ANY ASSOCIATED DRAIN LINES TO ADJACENT FLOOR SINKS OR INDIRECT WASTE RECEPTORS WITHOUT POSING A TRIP HAZARD. BACKFLOW DEVICES SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE ITEMS DESCRIBED BELOW.
8. PROVIDE ASSE 1022 APPROVED 3/8" WATTS SD-3 LEAD FREE DUAL CHECK VALVE DEVICE WITH ATMOSPHERIC VENT, 316 STAINLESS STEEL BODY, AND WYE PATTERN STRAINER UPSTREAM OF DEVICE AT EACH WATER CONNECTION TO TEA BREWERS, COFFEE BREWERS, JUICE DISPENSERS, AND CARBONATED BEVERAGE EQUIPMENT. PIPING DOWNSTREAM OF CARBONATED BEVERAGE BACKFLOW DEVICES SHALL NOT BE AFFECTED BY CARBON DIOXIDE GAS.
9. PROVIDE ASSE 1012 APPROVED 3/4" WATTS 9D-M2-SC DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT DEVICE WITH SATIN CHROME FINISH AND STAINLESS STEEL INTERNAL PARTS AT WATER CONNECTIONS TO STEAMERS AND COMBI OVENS. PROVIDE UPSTREAM OF ANY PRESSURE REGULATING DEVICE AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE ASSE 1001 APPROVED WATTS 3/4" LF288AC ATMOSPHERIC TYPE VACUUM BREAKER WITH LEAD FREE BRASS BODY AND CHROME FINISH AT WATER CONNECTIONS TO GLASS WASHERS, DISHMACHINES, AND FOOD WASTE DISPOSERS.
11. FOR ANY EQUIPMENT WHICH IS FURNISHED FROM THE MANUFACTURER WITH A CLEANING-AGENT CONNECTION AND ASSOCIATED DOMESTIC WATER CONNECTION, ENSURE TO PROVIDE A 3/4" WATTS LF-909-QT REDUCED PRESSURE ZONE (RPZ) TYPE BACKFLOW PREVENTER ASSEMBLY. THIS SHALL SUPERSEDE THE REQUIREMENTS INDICATED ABOVE. THIS SHALL APPLY TO ITEMS SUCH AS, BUT NOT NECESSARILY LIMITED TO, COMBI OVENS WITH SUCH FEATURES.

ROOF PLAN NOTES:

1. ALL PRIMARY AND OVERFLOW ROOF DRAIN AND STORM PIPE SIZING IS BASED ON A RAINFALL RATE OF SIX (6) INCHES PER HOUR.
2. CONFIRM FINAL DRAIN LOCATIONS WITH LATEST ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. MAKE ADJUSTMENTS AS REQUIRED.
3. UNLESS NOTED OTHERWISE, THE ROOF EDGE IS TO PROVIDE A MEANS OF RAINWATER OVERFLOW IN AREAS WHERE NO OVERFLOW DRAINS ARE INDICATED.
4. UNLESS NOTED OTHERWISE, ROOF AREAS WITH NO ROOF DRAINS SHOWN ARE TO SHEET FLOW TO AND DRAIN VIA THE BUILDING EDGE. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION AND FOR ANY DETAILS REGARDING GUTTERS AND/OR DOWNSPOUTS.
5. IF VENT TERMINAL LOCATIONS ARE NOT SHOWN ON THIS DRAWING, REFER TO INDIVIDUAL FLOOR PLANS AND COORDINATE ACCORDINGLY.
6. ALL VENT TERMINALS SHALL BE LOCATED NO LESS THAN FIFTEEN (15) FEET AWAY FROM ANY OPENABLE WINDOW, DOOR, OPENING, OUTSIDE AIR INTAKE, OR SUPPLY AIR FAN. IF LOCAL CODE OR FACILITY LICENSING REQUIREMENTS CALL FOR GREATER SEPARATION, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
7. PROVIDE ENGINEERED SUPPORTS FOR ALL ROOFTOP GAS PIPING. PROVIDE NECESSARY OFFSETS AND SUPPORTS TO ENSURE THAT NO PIPING RESTS DIRECTLY UPON COPING OR BUILDING EXPANSION JOINTS. PROVIDE SUPPORTS TO SECURELY FASTEN OUTDOOR VERTICAL PIPING TO FACES OF EXTERIOR WALLS. COORDINATE IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED TO PREVENT VISIBILITY OF SUCH PIPING FROM ANY ADJACENT WINDOWS OR OTHER GLAZING.
8. PROVIDE BENDS, LOOPS, AND/OR OFFSETS FOR THERMAL EXPANSION AND CONTRACTION OF ROOFTOP GAS PIPING IN ACCORDANCE WITH NFPA 54.
9. ALL GAS PIPING ROUTED ON ROOF OR SIMILARLY EXPOSED (UNBURIED, OUTSIDE THE BUILDING AND NOT INSTALLED BY THE LOCAL UTILITY PROVIDER) SHALL BE PAINTED TO PROVIDE PROTECTION AGAINST CORROSION AS REQUIRED BY THE FUEL GAS CODE. HIGH-SOLIDS, FAST CURE EPOXY, SEMI-GLOSS, YELLOW IN COLOR UNLESS REQUIRED OTHERWISE BY OWNER AND/OR AHJ.
10. ALL VERTICAL STORM CONDUCTORS WITHIN THE BUILDING SHALL BE LOCATED AND ROUTED CONCEALED FROM PUBLIC VIEW WITHIN CHASES/FURR-OUTS PROVIDED. REFER TO LATEST ARCHITECTURAL DRAWINGS. COORDINATE IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.

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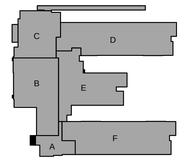

KEYPLAN

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PLUMBING GENERAL NOTES

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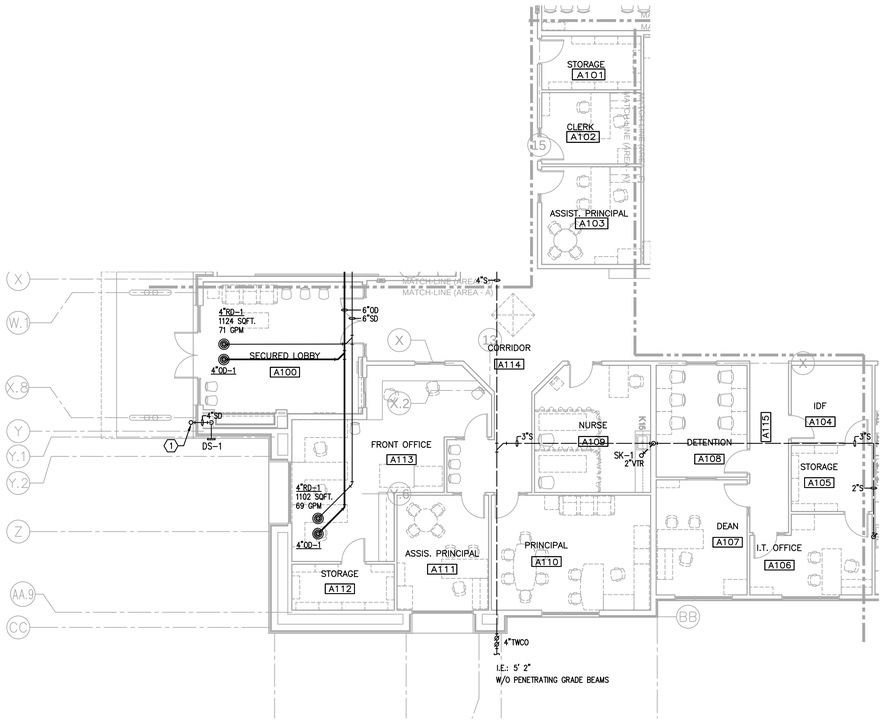
P0.02

PLUMBING KEYED NOTES

1. PRIMARY STORM DRAIN CONNECTION FROM PRE-MANUFACTURED CANOPY



1 PLUMBING PLAN - AREA A

P2.11A

1/8" = 1'-0"

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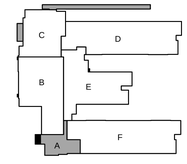

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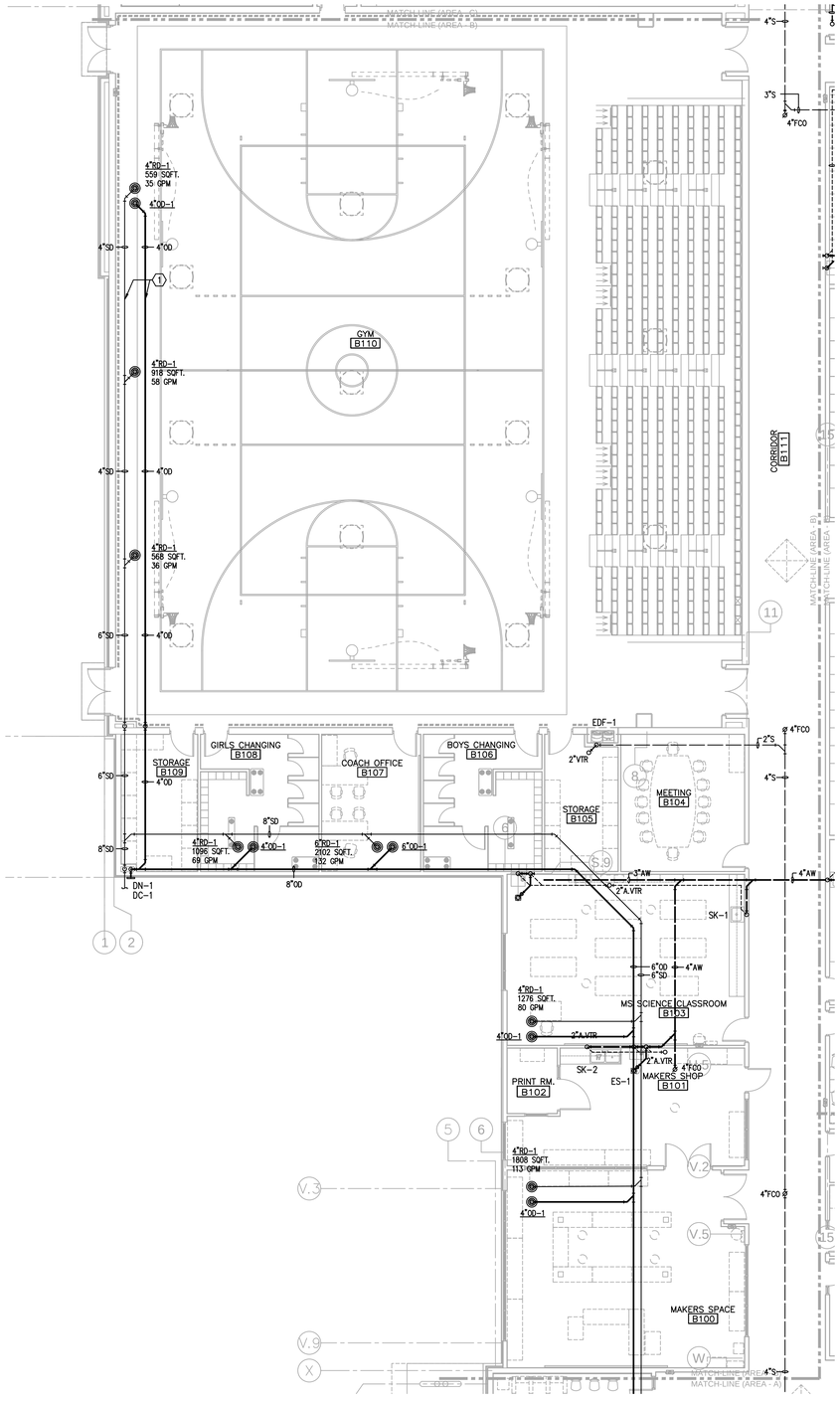

1 P2.11B

PLUMBING PLAN - AREA B

1/8" = 1'-0"

PLUMBING KEYED NOTES

1 KEEP STORM DRAIN PIPING TIGHT TO STRUCTURE. PAINT PIPING TO MATCH ROOF.

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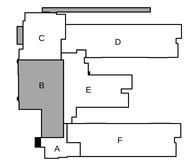

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P2.11B

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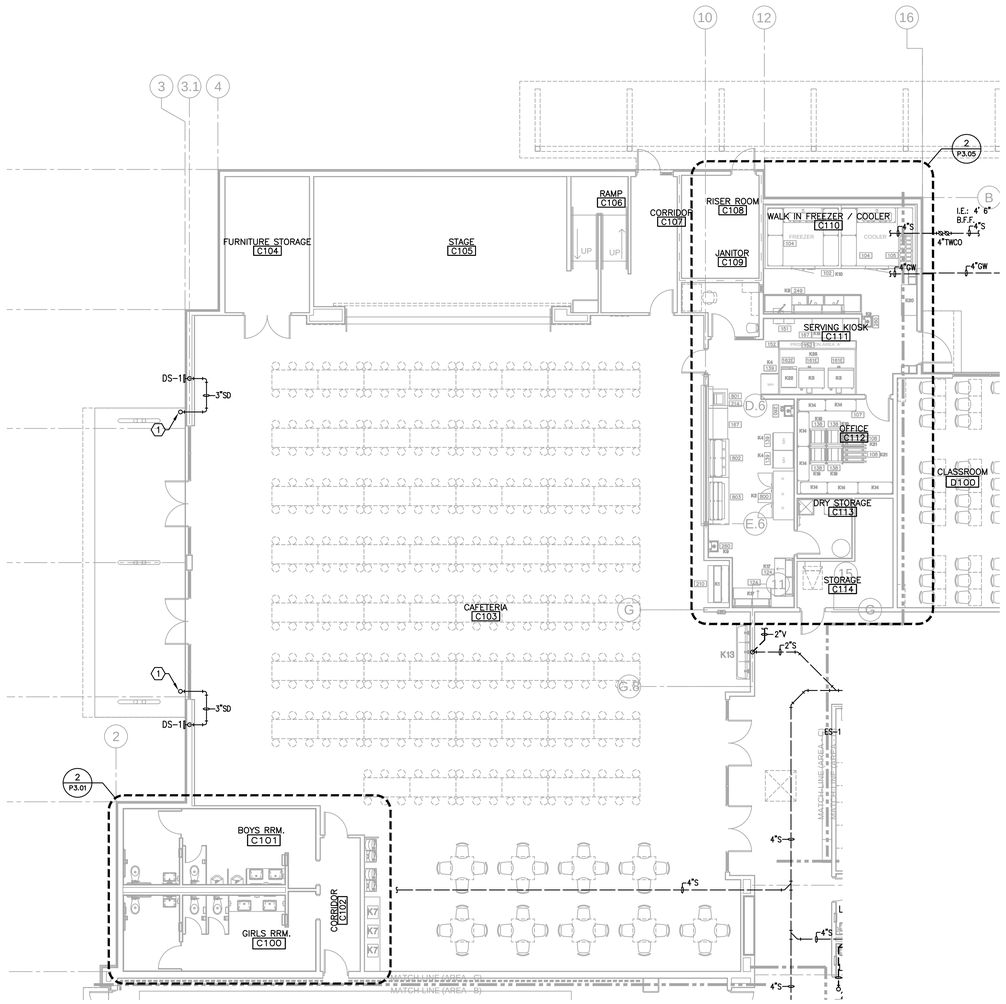

1 P2.11C PLUMBING PLAN - AREA C
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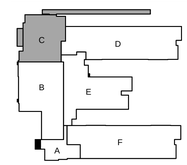

KEYPLAN

Project Number:	24.23
Drawing Date:	11/20/2025
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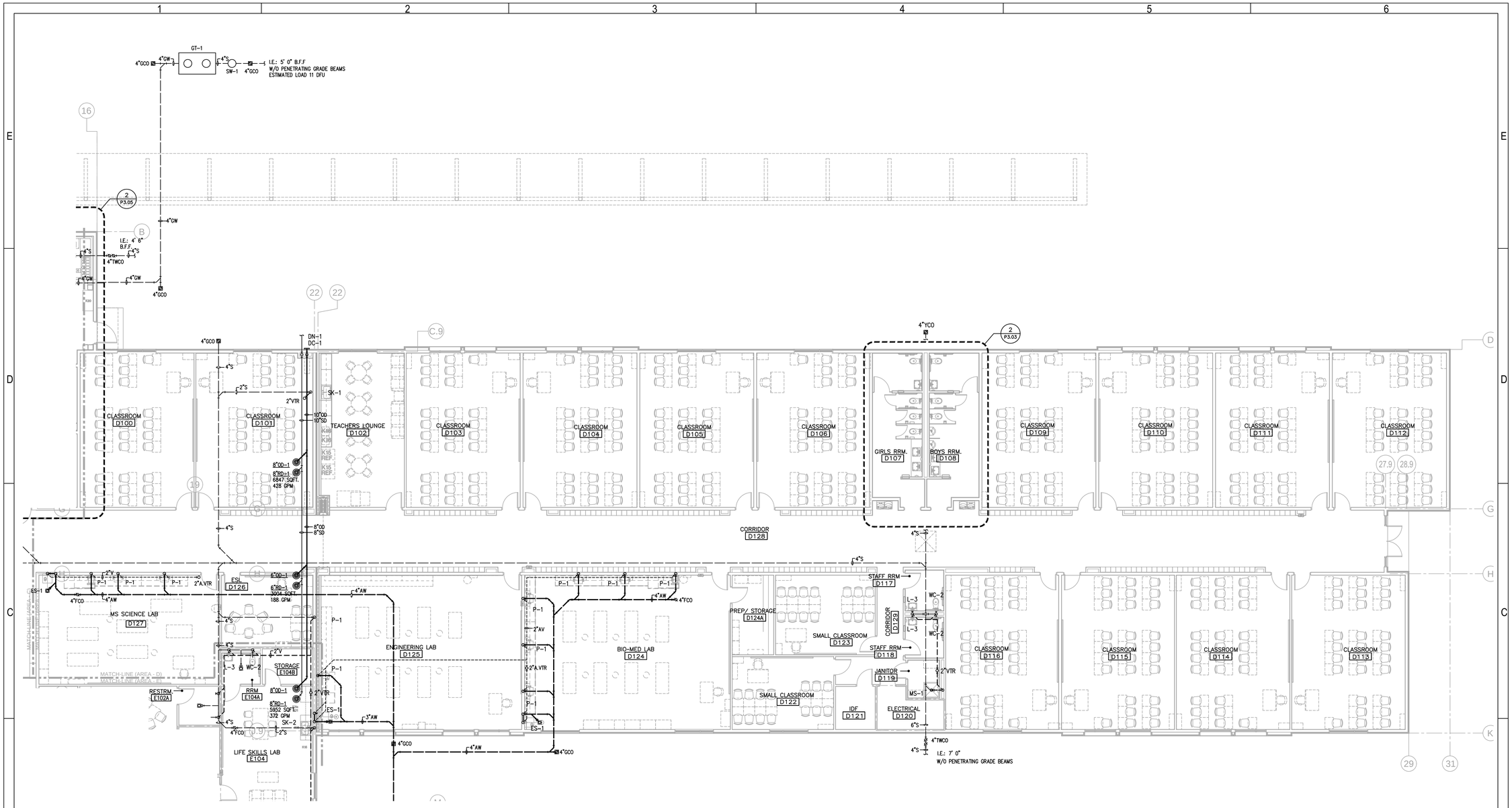
P2.11C



1 P2.11D **PLUMBING PLAN - AREA D**

1/8" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

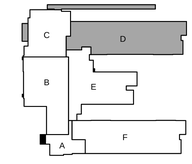
FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

RYAN G. MILLER 131759 LICENSED PROFESSIONAL ENGINEER

07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

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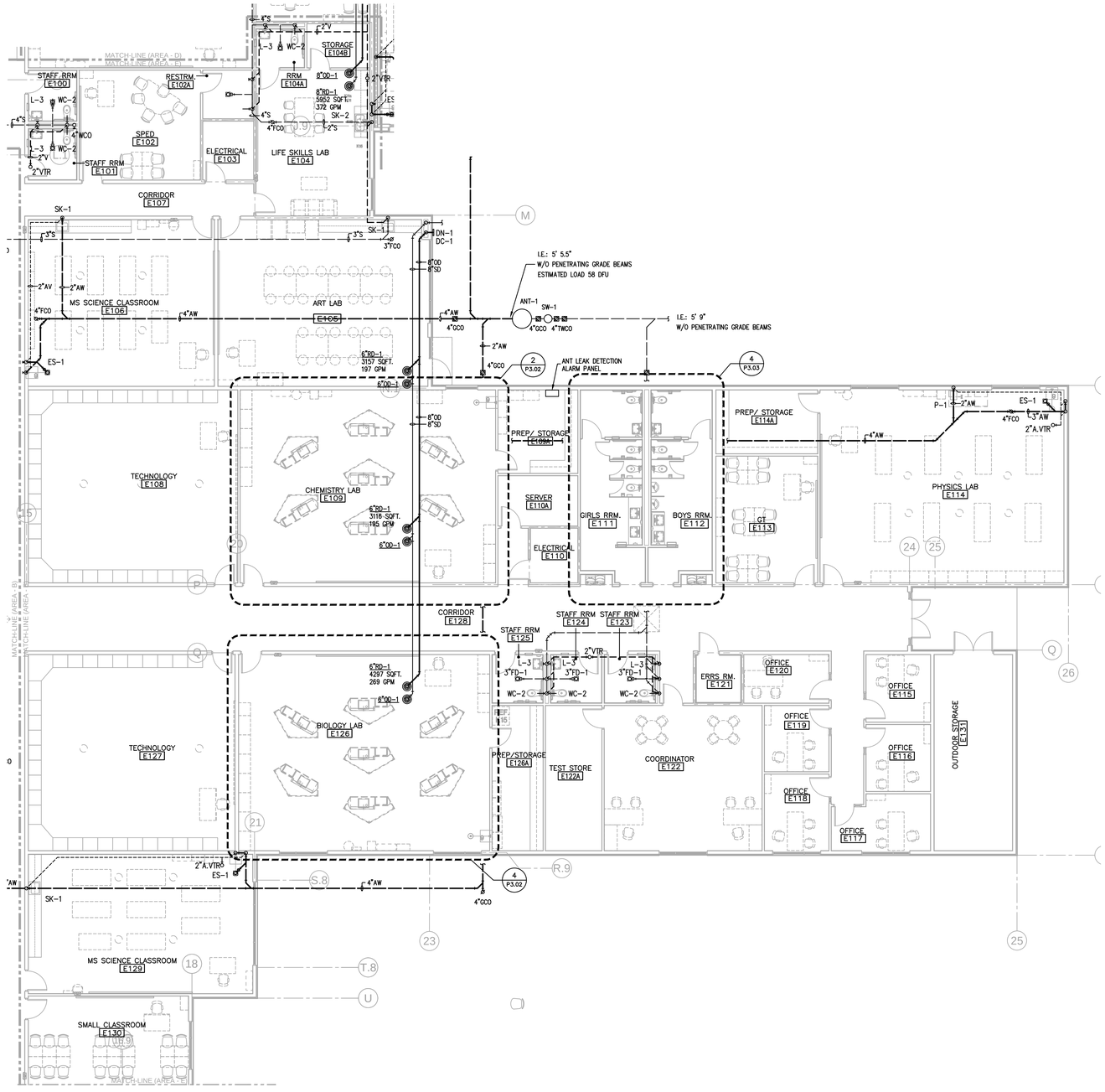

1 P2.11E **PLUMBING PLAN - AREA E**

1/8" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

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4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
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1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

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San Antonio, Texas 78216
Tel : 210-546-0200

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Combs Consulting Group
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Boerne, TX 78006
Phone: 210-698-7887

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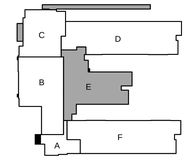
The Woodlands, TX 77380
Phone: 281-350-2323

RYAN G. MILLER 131759 LICENSED PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



KEYPLAN

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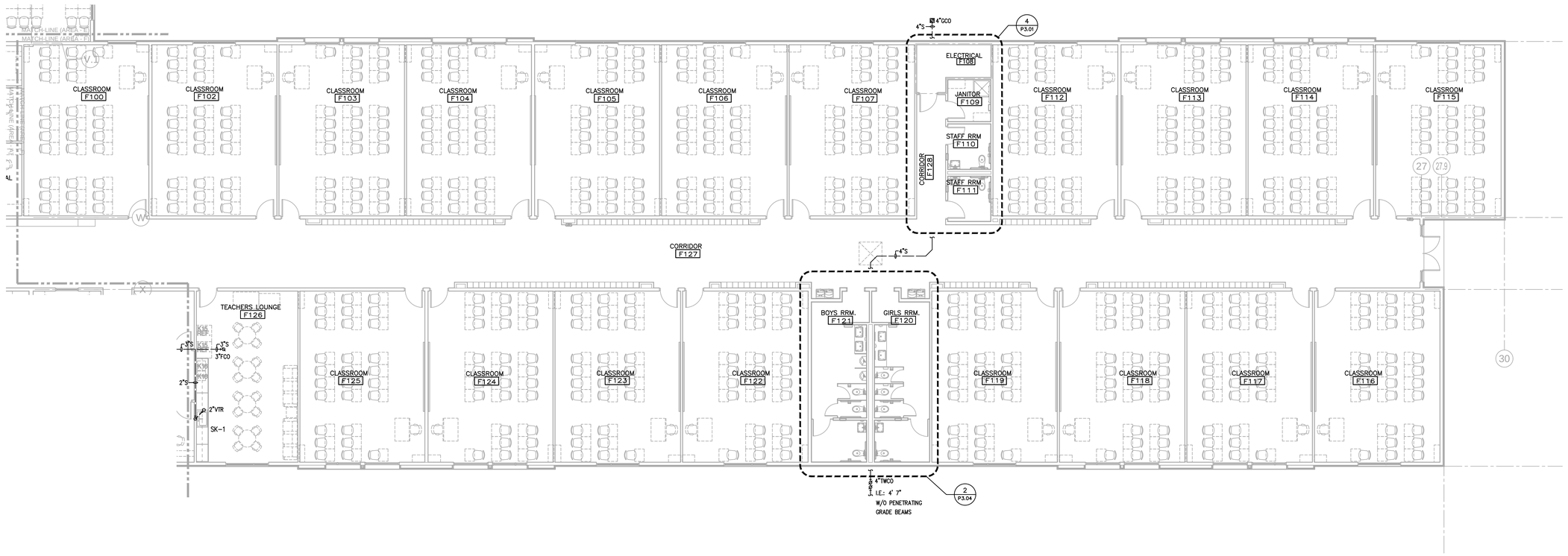

1 P2.11F PLUMBING PLAN - AREA F

1/8" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
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F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
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F 956.622.7313

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HOUSTON, TEXAS 77041
PHONE: 713-462-3242

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ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
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1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

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DBR
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San Antonio, Texas 78216
Tel : 210-546-0200

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Boerne, TX 78006
Phone: 210-698-7887

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Foodservice Design Professionals
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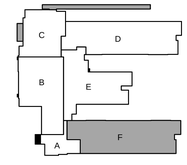
The Woodlands, TX 77380
Phone: 281-350-2323

RYAN G. MILLER
131750
LICENSED
PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

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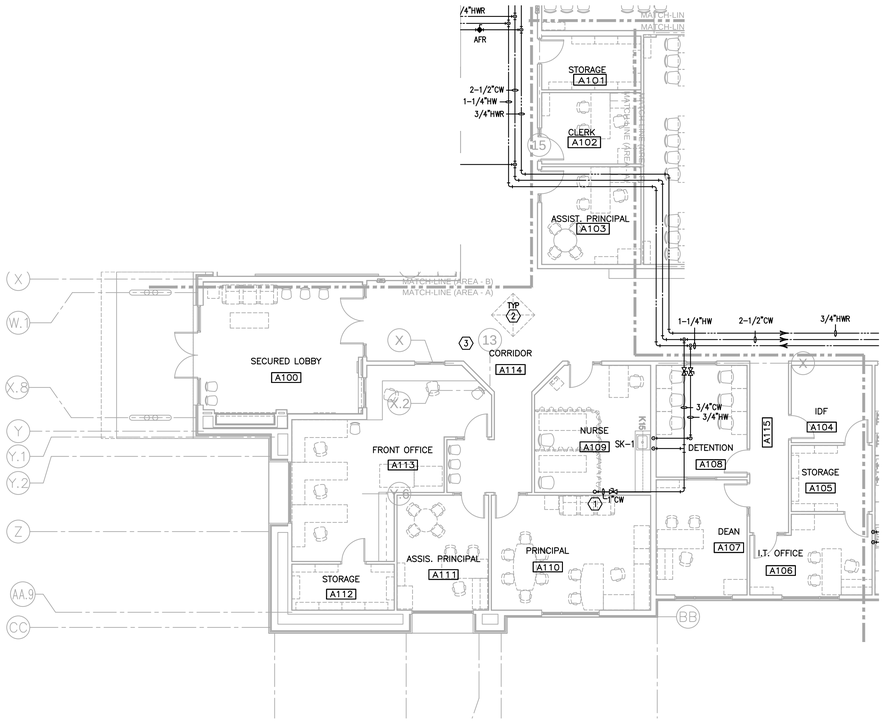
P2.11F

PLUMBING KEYED NOTES:

1. UP TO ROOF HYDRANT ABOVE.
2. ARCHITECTURAL SKYLIGHT AT THIS LOCATION. DO NOT RUN PIPING THROUGH THESE AREAS. (TYP)
3. CORRIDOR IS AN OPEN CEILING, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXTENTS OF OPEN CEILING. KEEP ALL PIPING OUT OF EXPOSED AREAS.



1 P2.21A **PLUMBING PLAN LEVEL 1 - AREA A - DOMESTIC WATER**
1/8" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
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F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

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Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
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San Antonio, Texas 78216
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Boerne, TX 78006
Phone: 210-698-7887

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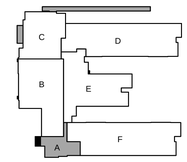
The Woodlands, TX 77380
Phone: 281-350-2323

RYAN G. MILLER — STATE OF TEXAS — 131759 — REGISTERED PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



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PLUMBING PLAN LEVEL 1 - AREA A

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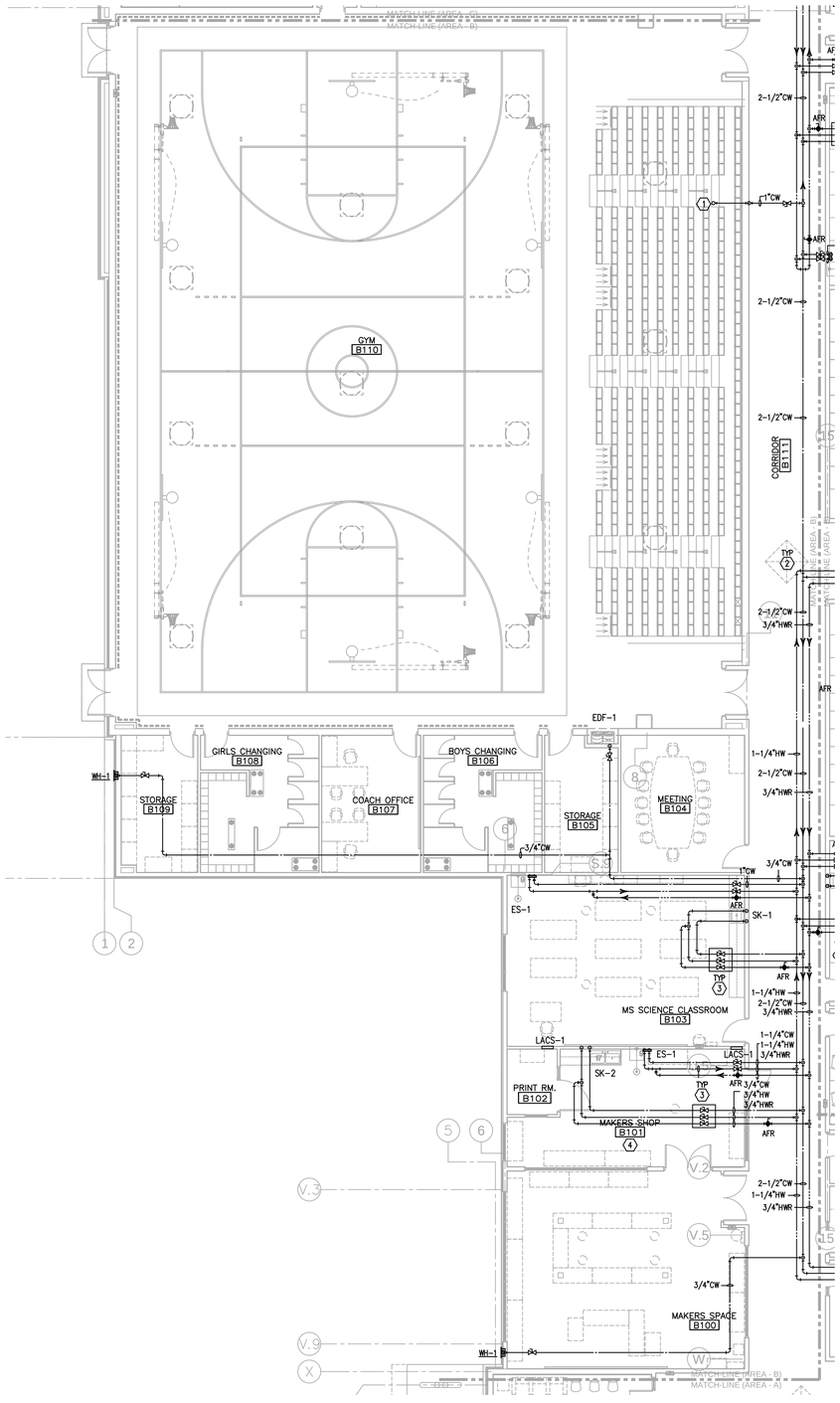
P2.21A



PLUMBING KEYED NOTES:

1. UP TO ROOF HYDRANT ABOVE.
2. ARCHITECTURAL SKYLIGHT AT THIS LOCATION. DO NOT RUN PIPING THROUGH THESE AREAS. (TYP)
3. SOLENOID VALVE BOX ASSOCIATED WITH LACS SYSTEM. REFER TO DRAWINGS FOR UTILITIES, QUANTITY, AND SIZE.
4. ROOM HAS EXPOSED CEILING. KEEP PIPING TIGHT TO STRUCTURE.

1 P2.21B PLUMBING PLAN LEVEL 1 - AREA B - DOMESTIC WATER

1/8" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
COBB FENDLEY & ASSOCIATES
4424 W SAM HOUSTON PKWY, SUITE 600
HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
ADLA, Inc.
4833 Saratoga Blvd. #116
Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
GREEN RUBIANO & ASSOCIATES
1220 W Harrison Ave.
Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
DBR
9601 McAllister Freeway
Suite 410,
San Antonio, Texas 78216
Tel : 210-546-0200

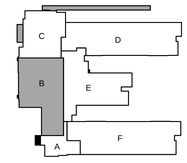
INFORMATION TECHNOLOGY:
Combs Consulting Group
100 West Hosack, Suite 101
Boerne, TX 78006
Phone: 210-698-7887

FOOD SERVICE DESIGN:
Foodservice Design Professionals
594 Sawdust Road, Suite 139
The Woodlands, TX 77380
Phone: 281-350-2323

STATE OF TEXAS
RYAN G. MILLER
131759
LICENSED
PROFESSIONAL ENGINEER
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

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PLUMBING PLAN LEVEL 1 - AREA B

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TBPE Firm Registration No. 2234
DBR Project#: 254026.000
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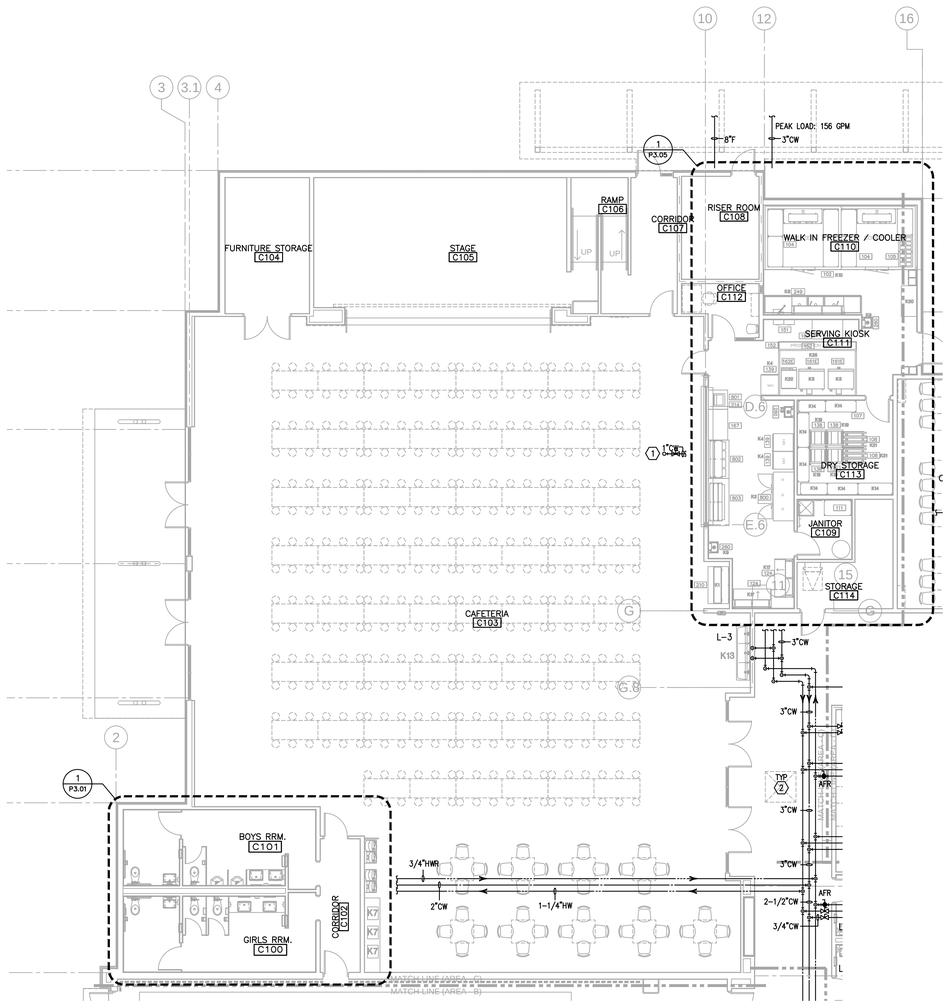
P2.21B

PLUMBING KEYED NOTES:

1. UP TO ROOF HYDRANT ABOVE.



1 P2.21C PLUMBING PLAN LEVEL 1 - AREA C - DOMESTIC WATER

1/8" = 1'-0"

GIGNAC | ARCHITECTS
TBAE - BR 1221
416 STARR STREET
CORPUS CHRISTI, TEXS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
F 956.622.7313

CONSULTANTS:

CIVIL:
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HOUSTON, TEXAS 77041
PHONE: 713-462-3242

LANDSCAPE AND IRRIGATION:
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Corpus Christi, TX 78413
Phone: 361-288-2335

STRUCTURAL AND WINDSTORM:
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Harlingen, TX 78550
Phone: 956-428-4461

MECHANICAL, ELECTRICAL, AND PLUMBING:
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Tel : 210-546-0200

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RYAN G. MILLER 131759 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
07/02/2026

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CITY PLACE
PHASE 2
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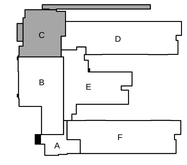

KEYPLAN

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PLUMBING PLAN LEVEL 1 - AREA C

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DBR Project#: 254026.000

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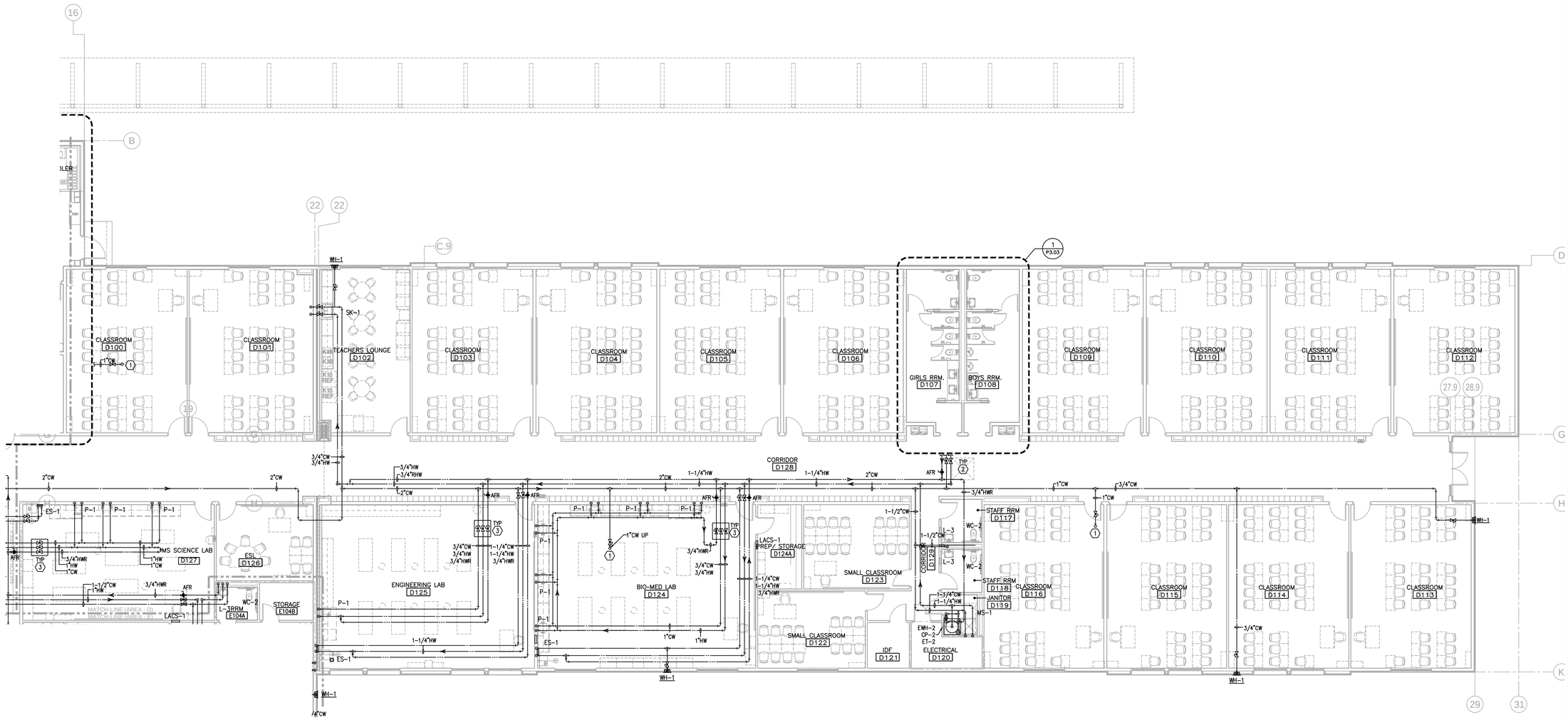

1 P2.21D PLUMBING PLAN LEVEL 1 - AREA D - DOMESTIC WATER

1/8" = 1'-0"

PLUMBING KEYED NOTES:

1. UP TO ROOF HYDRANT ABOVE.
2. ARCHITECTURAL SKYLIGHT AT THIS LOCATION. DO NOT RUN PIPING THROUGH THESE AREAS. (TYP)
3. SOLENOID VALVE BOX ASSOCIATED WITH LACS SYSTEM. REFER TO DRAWINGS FOR UTILITIES, QUANTITY, AND SIZE.

GIGNAC | ARCHITECTS
TBAE - BR 1221
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F 361.884.4232
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F 956.365.4822
3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
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CONSULTANTS:

CIVIL:
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HOUSTON, TEXAS 77041
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LANDSCAPE AND IRRIGATION:
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Phone: 361-288-2335

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FOOD SERVICE DESIGN:
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The Woodlands, TX 77380
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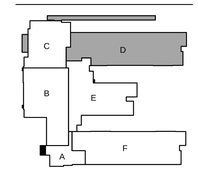
RYAN G. MILLER 131759 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



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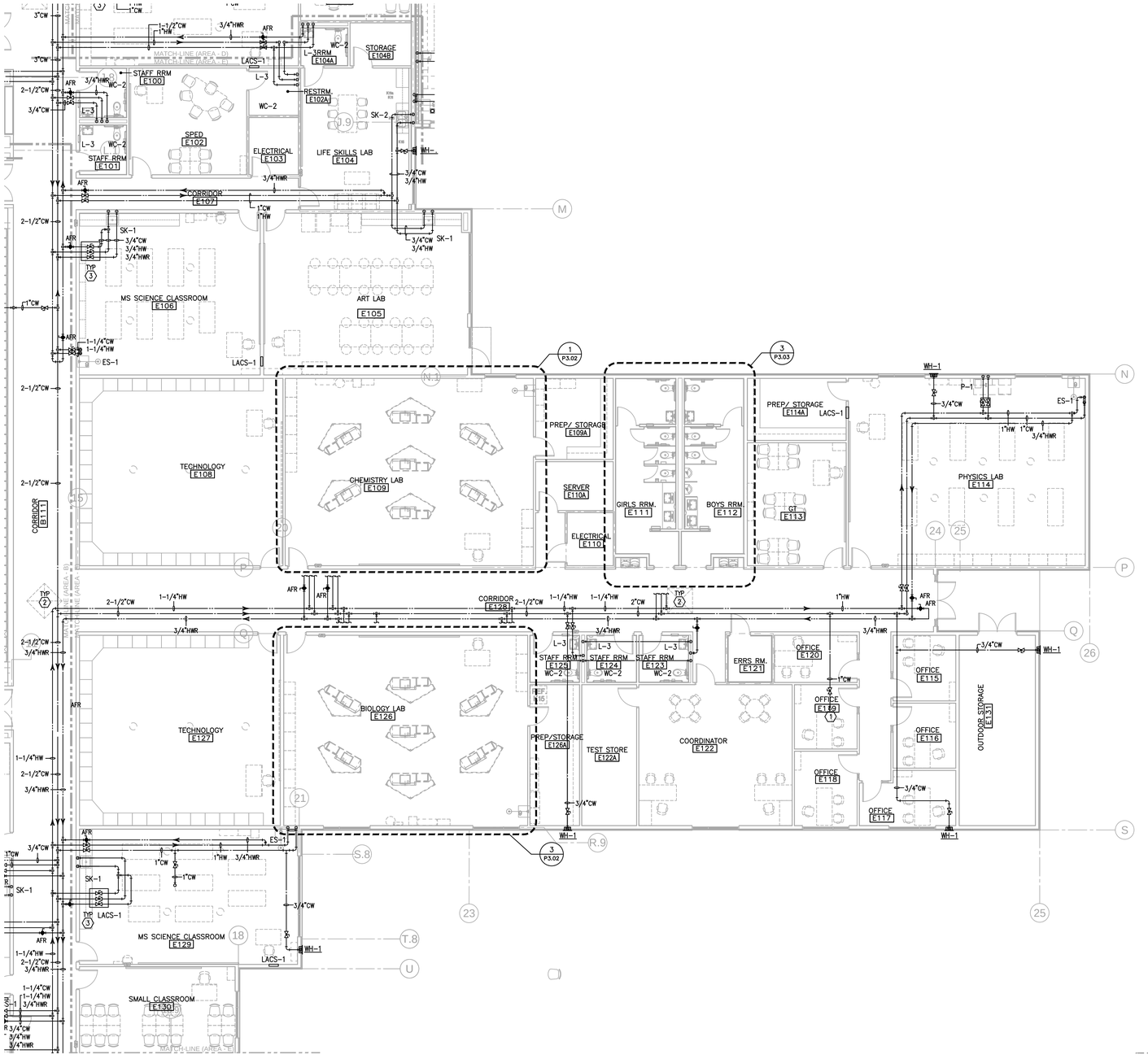

1 P2.21E **PLUMBING PLAN LEVEL 1 - AREA E - DOMESTIC WATER**

1/8" = 1'-0"

PLUMBING KEYED NOTES:

1. UP TO ROOF HYDRANT ABOVE.
2. ARCHITECTURAL SKYLIGHT AT THIS LOCATION. DO NOT RUN PIPING THROUGH THESE AREAS. (TYP)
3. SOLENOID VALVE BOX ASSOCIATED WITH LACS SYSTEM. REFER TO DRAWINGS FOR UTILITIES, QUANTITY, AND SIZE.

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3700 N. 10TH, SUITE 205
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San Antonio, Texas 78216
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Phone: 281-350-2323

RYAN G. MILLER — 131759 — LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS

07/02/2026

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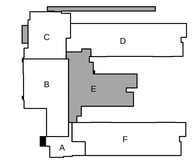
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

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Sheet Title:

PLUMBING PLAN LEVEL 1 - AREA E

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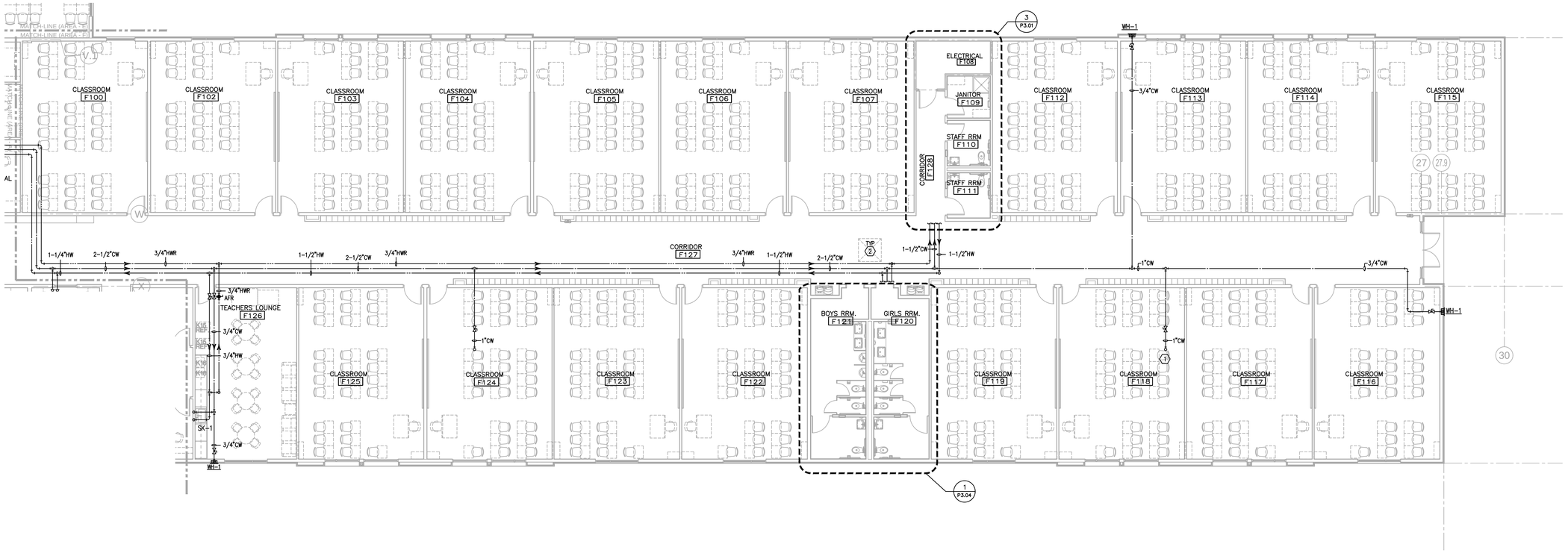
P2.21E



1 P2.21F PLUMBING PLAN LEVEL 1 - AREA F - DOMESTIC WATER

1/8" = 1'-0"

PLUMBING KEYED NOTES:

1. UP TO ROOF HYDRANT ABOVE.
2. ARCHITECTURAL SKYLIGHT AT THIS LOCATION. DO NOT RUN PIPING THROUGH THESE AREAS. (TYP)

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CITY PLACE
PHASE 2
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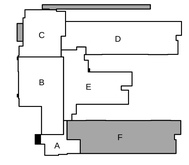

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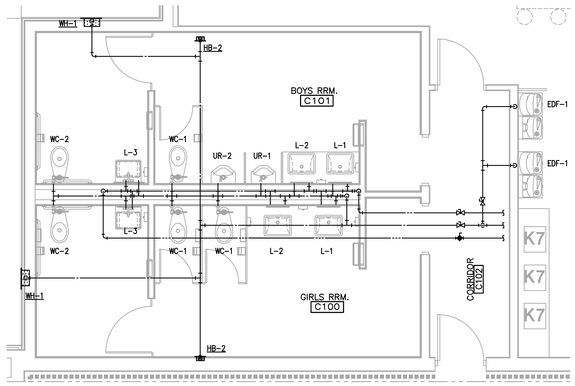
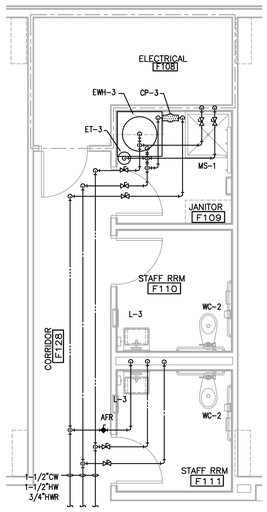
PLUMBING PLAN LEVEL 1 - AREA F

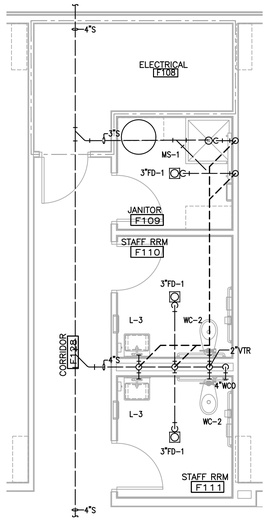
P2.21F



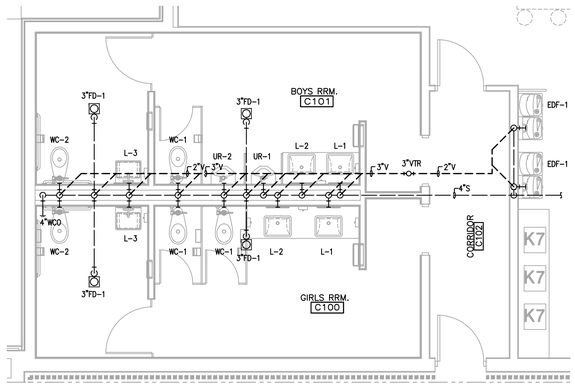
1 P3.01 ENLARGED PLUMBING PLAN
1/4" = 1'-0"



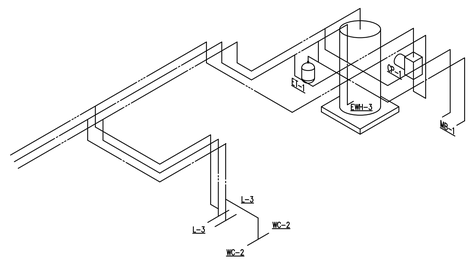
3 P3.01 ENLARGED PLUMBING PLAN
1/4" = 1'-0"



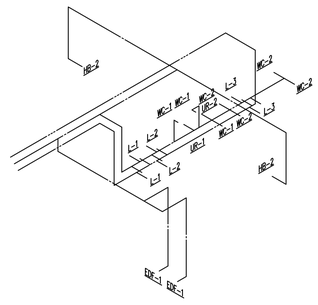
4 P3.01 ENLARGED UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"



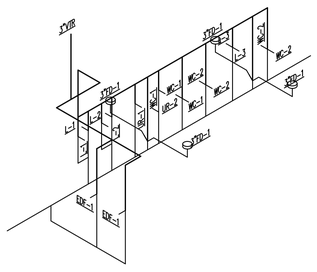
2 P3.01 ENLARGED UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"



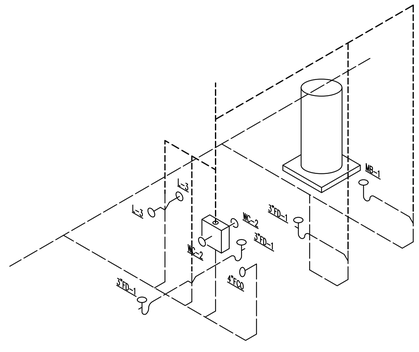
7 P3.01 PLUMBING RISER - WATER
1/4" = 1'-0"



5 P3.01 PLUMBING RISER - WATER
1/4" = 1'-0"



6 P3.01 PLUMBING RISER - SANITARY SEWER AND VENT
1/4" = 1'-0"



8 P3.01 PLUMBING RISER - SANITARY SEWER AND VENT
1/4" = 1'-0"

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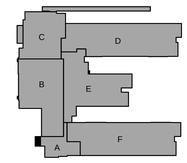
VILLAGE PKWY, SPRING ,
TEXAS 77379



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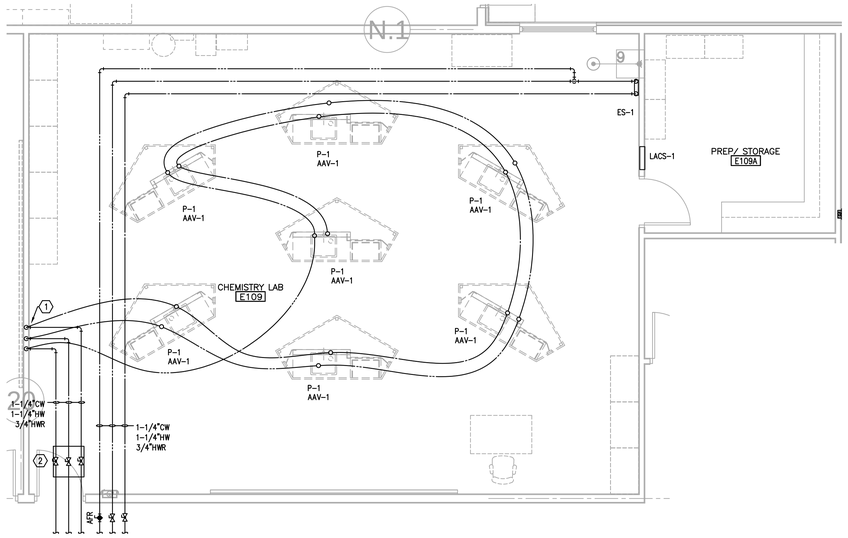
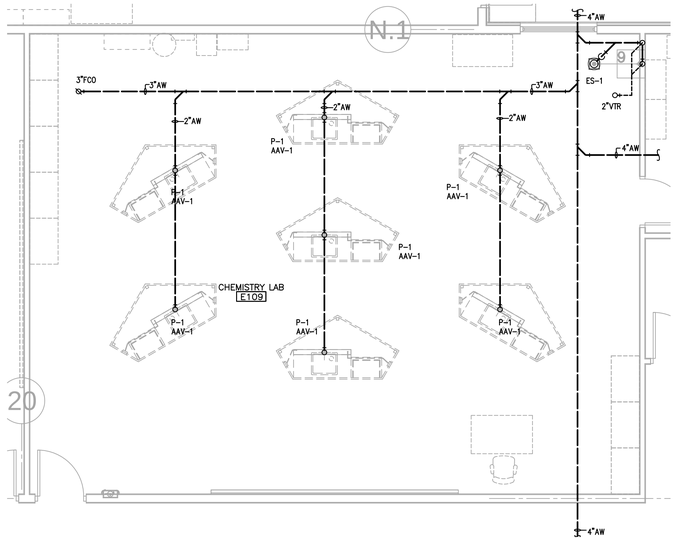
P3.01



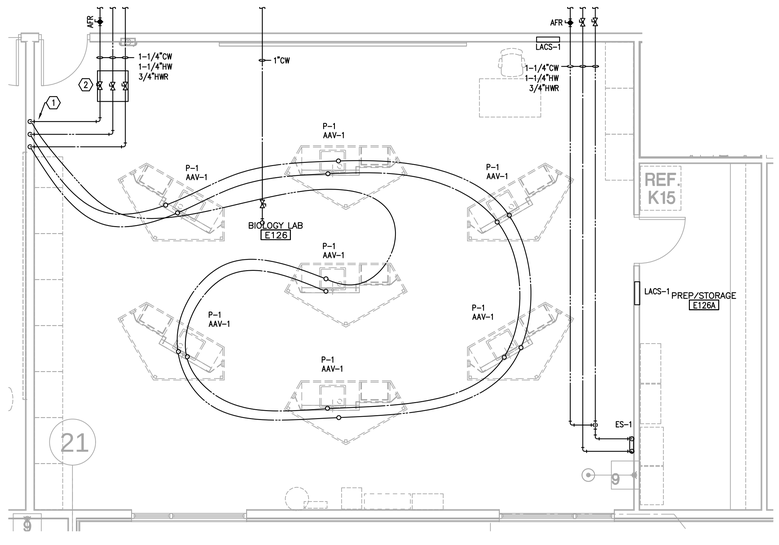
1 ENLARGED PLUMBING PLAN
P3.02
1/4" = 1'-0"



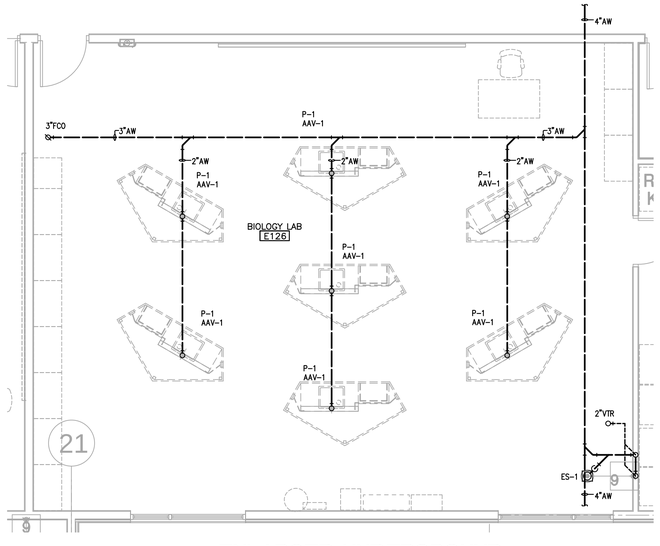
2 ENLARGED UNDERGROUND PLUMBING PLAN
P3.02
1/4" = 1'-0"

PLUMBING KEYED NOTES

1. TRANSITION TO PEX-A PIPING IN WALL PRIOR TO MOVING UNDER FLOOR. ROUTE ALL UNDER-FLOOR DOMESTIC WATER PIPING IN THIS CLASSROOM IN PEX-A
2. SOLENOID VALVE BOX ASSOCIATED WITH LACS SYSTEM. REFER TO DRAWINGS FOR UTILITIES, QUANTITY, AND SIZE.



3 ENLARGED PLUMBING PLAN
P3.02
1/4" = 1'-0"



4 ENLARGED UNDERGROUND PLUMBING PLAN
P3.02
1/4" = 1'-0"

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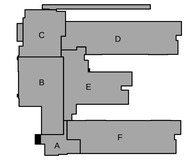

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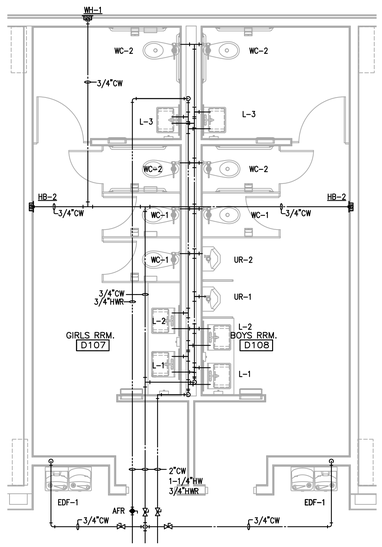
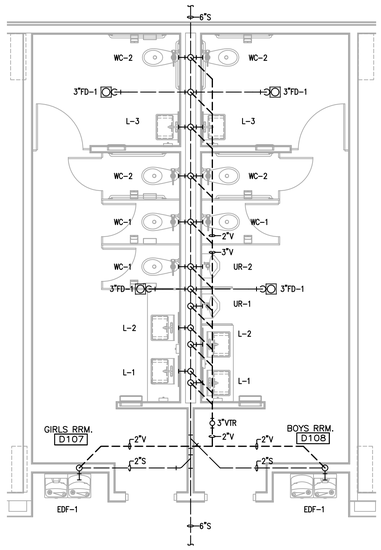
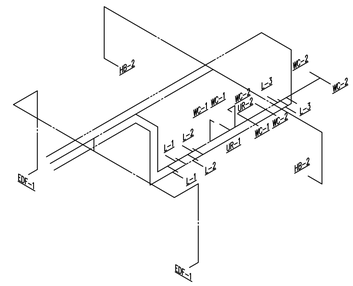
P3.02



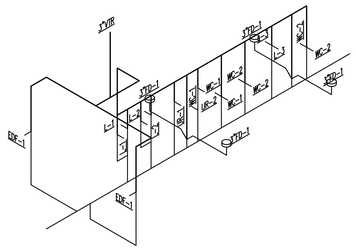
1 P3.03 ENLARGED PLUMBING PLAN
1/4" = 1'-0"



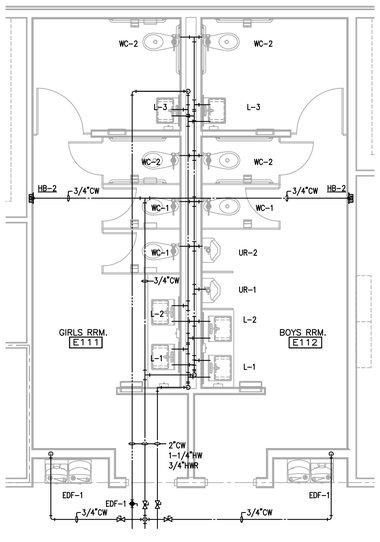
2 P3.03 ENLARGED UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"



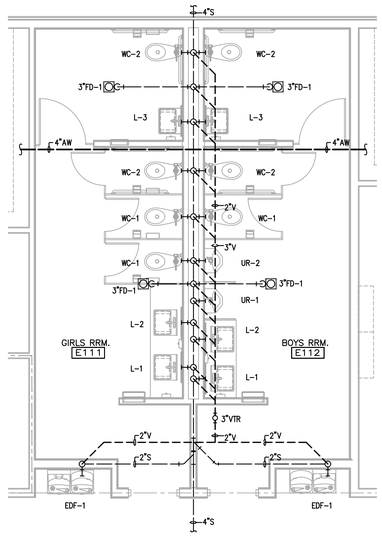
5 P3.03 PLUMBING RISER - WATER
1/4" = 1'-0"



6 P3.03 PLUMBING RISER - SANITARY SEWER AND VENT
1/4" = 1'-0"



3 P3.03 ENLARGED PLUMBING PLAN
1/4" = 1'-0"



4 P3.03 ENLARGED UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"

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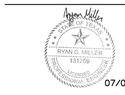

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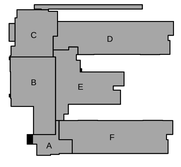

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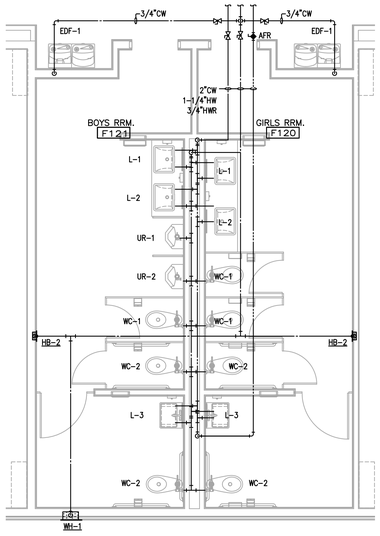
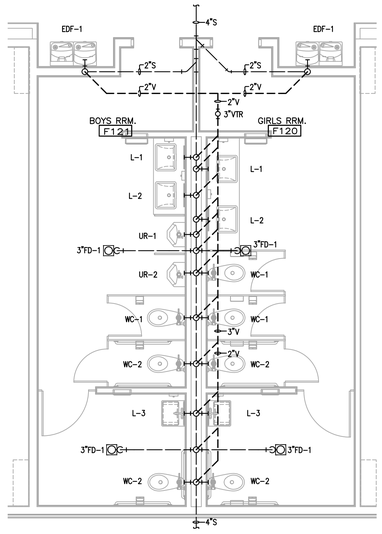
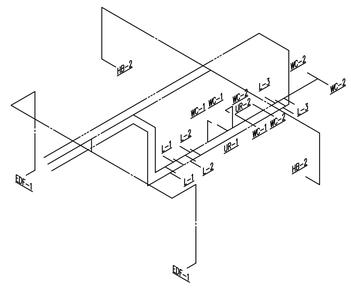


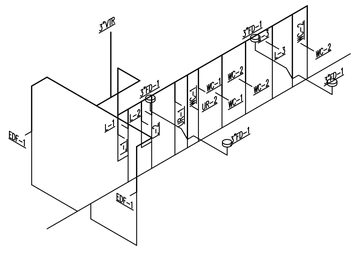
1 P3.04 **ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



2 P3.04 **ENLARGED UNDERGROUND PLUMBING PLAN**
1/4" = 1'-0"



3 P3.04 **PLUMBING RISER - WATER**
1/4" = 1'-0"



4 P3.04 **PLUMBING RISER - SANITARY SEWER AND VENT**
1/4" = 1'-0"

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ARCHITECT
07/02/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
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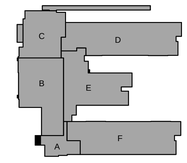


KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

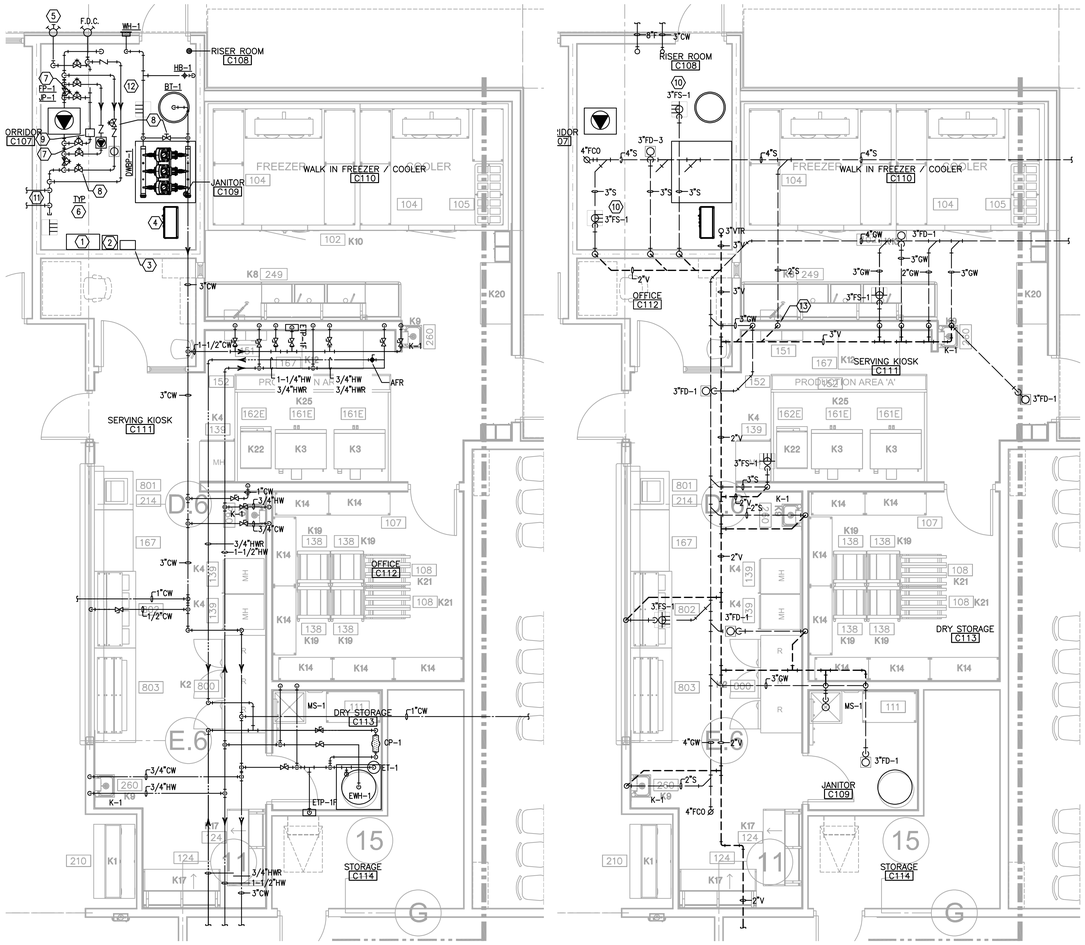
Sheet Title:

PLUMBING
PLAN LEVEL 1

DBR
O: 713.914.0888
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#: 254026.000

RM	IL/CQ	MK/AB	CG/CR	--

P3.04



1 P3.05 **ENLARGED PLUMBING PLAN**
1/4" = 1'-0"

2 P3.05 **ENLARGED PLUMBING PLAN - WASTE AND VENT**
1/4" = 1'-0"

Equipment Plumbing Schedule

NO.	QTY	EQUIPMENT DESCRIPTION	WATER		ROUGH-IN HEIGHT	WASTE		ROUGH-IN HEIGHT	REMARKS
			HOT	COLD		DIRECT	INDIRECT		
260	3	HAND SINK	1/2"	1/2"	18" AFF	1-1/2"		15" AFF	
802	1	EQUIPMENT FILL FAUCET	1/2"				3"		3" FLOOR SINK
249	1	TRIPLE COMP. SINK	3/4"(2)	3/4"(2)	48" AFF		3"		3" FLOOR SINK
162E	2	CONVECTION STEAMER		3/4"	42" & 32" AFF		3"		3" FLOOR SINK
123	1	DISPOSER		3/4"	48" AFF	2"			

PLUMBING KEYED NOTES

1. FIRE PUMP CONTROLLER.
2. FIRE PUMP DISCONNECT.
3. JOCKEY PUMP CONTROLLER.
4. DOMESTIC WATER BOOSTER PUMP CONTROLLER.
5. FIRE PUMP TEST HEADER.
6. PROVIDE 36" CLEARANCE IN FRONT OF ALL CONTROL PANELS AND PUMP (TYP)
7. NORMALLY CLOSED VALVE.
8. NORMALLY CLOSED BYPASS VALVE.
9. FIRE PUMP TEST FLOW METER.
10. ROUTE NEARBY SYSTEM OR EQUIPMENT DRAIN LINES TO INDIRECTLY DRAIN TO FLOOR SINK.
11. FIRE SPRINKLER RISERS.
12. REFER TO PLUMBING DETAIL 33/P6.02 FOR FIRE PUMP PIPE LAYOUT SIZING.
13. 2" DRAIN UP TO KITCHEN FOOD WASTE DISPOSER. PROVIDE P-TRAP FOR POINT OF CONNECTION.

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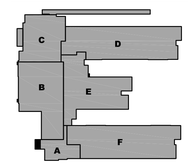

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P3.05

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PLUMBING FIXTURE SCHEDULE CONT.

PLAN MARK	MINIMUM ROUGH-IN SIZES				DESCRIPTION
	WASTE & VENT		CW	HW	
EMERGENCY SHOWER EMERGENCY EYEWASH COMBINATION ES-1	3"	2"	1-1/4"	1-1/4"	WATER SAVER SSBF2150 RECESSED SAFETY STATION WITH EYEWASH, STAINLESS STEEL PAN PROVIDE WITH FLOW REGULATOR, LIGHT AND ALARM HORN (REFER TO ELECTRICAL), AND TM6044 THERMOSTATIC MIXING VALVE IN A RECESSED MOUNTED IN A STAINLESS STEEL CABINET. SET TEMP TO 85F.
LAB SINK STUDENT TABLE P-1	2"	2"	1/2"	---	FIXTURE WITH DRAIN OUTLET & FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE & INSTALL ALL ASSOCIATED PIPING, BOTTLE TRAP, VALVES & TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
LAB SINK STUDENT TABLE P-2 **ADA**	2"	2"	1/2"	---	FIXTURE WITH DRAIN OUTLET & FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE & INSTALL ALL ASSOCIATED PIPING, BOTTLE TRAP, VALVES & TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
LABORATORY CONTROL SYSTEM LACS-1	---	---	---	---	LAB-TROL, MODEL BLC-20208-SM-1CW-1G CF WHITE POWDER COATED SURFACE MOUNTED NEMA-1 ENCLOSURE SIZE 20"H x 20"W x 8"D WITH FULL PANEL DOOR AND KEYED LOCK, FURNISHED WITH TWO 120V NORMALLY CLOSED SOLENOID VALVES, ONE 1" CW AND GAS VALVE. INTEGRATED EPO EMERGENCY SHUT-OFF BUTTON, KEY RESET SWITCH FOR WATER SERVICE TO TEACHERS DEMO DESK AND STUDENT SINK OUTLETS. VALVE BOX SHALL BE LABELED FOR ITS INTENDED USE AND ASSEMBLED WITH THREADED MAIN BALL VALVES AND STRAINERS WITH UNION FITTINGS UPSTREAM OF SOLENOID VALVE ASSEMBLY AND UNION FITTINGS DOWNSTREAM OF VALVE ASSEMBLY. VALVE BOX WILL INCLUDE COOLING FAN AND LOUVERED DOOR. REFER TO ELECTRICAL DRAWINGS FOR WIRING REQUIREMENTS AND CONTRACTOR LOCATION AND EPO ON WALL. REFER TO PLAN FOR LOCATION.
MOP SINK MS-1	3"	2"	3/4"	3/4"	FLORESTONE MODEL 87. FLOOR MOUNTED, 32"X32"x 12" HEIGHT, NEO ANGLE TERRAZZO MOP SINK MOLDED STONE DRAIN BODY TO BE BRASS, CAST INTEGRAL TO MOP SINK., CONTRACTOR SHALL COORDINATE APRON ON TWO OR ONE SIDE, HOSE AND HOSE BRACKET.
FAUCET					ZURN MODEL Z841M4-XL WALL MOUNT SERVICE SINK FAUCET WITH 6" VACUUM BREAKER SPOUT, 4" WRIST BLADE HANDLES, WITH 3/4" HOSE END AND BRACE.
ACCESSORIES					STERN WILLIAMS No. T-40 MOP BRACKET, STERN WILLIAMS No. T-35 BRACKET AND HOSE.
HOSE BIBB HB-1 (MECHANICAL ROOMS)	---	---	1/2"	---	T&S BRASS MODEL: B-2301 SILL FAUCET WITH NON-REMOVABLE VACUUM BREAKER AND LOOSE KEY OPERATING HANDLE. MOUNTING HEIGHT FOR 36" A.F.F. IN MECHANICAL ROOMS.
HOSE BIBB HB-2 (TOILET ROOMS)	---	---	1/2"	---	JAY R SMITH MODEL: 5509QT-SAP RECESSED STAINLESS STEEL WALL BOX WITH COLD WATER VALVE, INTEGRAL STOP, VB AND HINGED LOCKING COVER STAMPED 'WATER' INSTALL FLUSH AND RIGID TO (TOILET ROOM FITTING) FINISHED WALL AND SEALED WATERTIGHT.
WALL HYDRANT WH-1	---	---	3/4"	---	JAY R SMITH MODEL: 5519 NON-FREEZE AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION. INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, COPPER CASING, ALL-BRONZE INTERIOR COMPONENTS. HYDRANT FURNISHED WITH TYPE 304 STAINLESS STEEL HOUSING WITH LOCKING HINGED COVER STAMPED "WATER" AND INCLUDES OPERATING KEY
ROOF DRAIN RD-1	---	---	---	---	JAY R SMITH MODEL: 1015Y-R-C 15" CAST IRON DRAIN AND DOME STRAINER WITH FLASHING CLAMPING COLLAR, UNDERDECK CLAMP ROOF SUMP RECEIVER, ADJUSTABLE EXTENSION UP TO 4", CAULKED OR NO-HUB OUTLET. DRAIN TO BE INSTALLED WITH MINIMUM OF 36" ADJACENT ROOF DRAIN.
OVERFLOW DRAIN OD-1	---	---	---	---	JAY R SMITH MODEL: 1080Y-AE-R-C 15" CAST IRON DRAIN AND DOME STRAINER WITH FLASHING CLAMPING COLLAR, UNDERDECK CLAMP ROOF SUMP RECEIVER AND 2" HIGH INTERNAL WATER DAM, ADJUSTABLE EXTENSION UP TO 4", CAULKED OR NO-HUB OUTLET. DRAIN TO BE INSTALLED WITH MINIMUM OF 36" ADJACENT ROOF DRAIN.
DOWNSPOUT DN-1 NOZZLE	---	---	---	---	JAY R SMITH FIGURE NO. 1770T NO-HUB CONNECTION AND ROUGH BRONZE FINISH. OR NO. 1775 STAINLESS STEEL FLANGE AND PERFORATED HINGED COVER. REFER TO DRAWINGS FOR SIZE.
DOWNSPOUT DC-1 COVER	---	---	---	---	ZURN No. ZS-199-DC STAINLESS STEEL DOWNSPOUT COVER WITH FABRICATED SECURED PERFORATED STAINLESS STEEL HINGED STRAINER, MOUNTED 12" A.F.F. UNLESS NOTED OTHERWISE.
DOWNSPOUT BOOT DB-1	---	---	---	---	
WALL BOX WB-1	---	---	1/2"	---	GUY GRAY NO. MIB1HAAB 1/2"x1/2" O.D. TUBE ICE MAKER WITH HAMMER ARRESTER VALVE. LEAVE 60" COIL OF 1/4"O.D.S. TYPE "K" SOFT COPPER FOR EQUIPMENT CONNECTION. FOR FREE STANDING REFRIGERATOR WITH ICE MAKER. INSTALL BOX AT 54" A.F.F. FOR UNDER COUNTER REFRIGERATOR ICE MAKER: INSTALL BOX AT 18" A.F.F. FOR COFFEE MACHINE: INSTALL BOX AT 24" A.F.F. BELOW COUNTER OR ABOVE COUNTER BACKSPLASH; COORDINATE WITH ARCHITECT FOR EXACT LOCATION. FOR ICE/COFFEE MAKER PROVIDE WITH CUNO NO. AP717 FILTER BRACKETED TO WALL AND WATTS SD-3 IN-LINE BACKFLOW PREVENTER.
WALL CLEANOUT WCO	---	---	---	---	ZURN No. ZN-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEANOUT FCO	---	---	---	---	ZURN No.ZS-1400 CAST IRON CLEANOUT EXTRA-HEAVY DUTY AND ROUND SCORIATED TOP FOR PURPOSE TRAFFIC AREAS (SUCH AS WAREHOUSE/FORK-LIFT). PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWG'S FOR FLOOR TYPES.
GRADE CLEANOUT GCO	---	---	---	---	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x6" THICK CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	CW INLET	HW OUTLET	GPH RECOVERY @ 71 °F TEMP RISE	ELECTRICAL REQUIREMENTS			
									VOLTS (V)	PHASE	kW	AMPS
ELECTRIC WATER HEATER EWH-1	A.O. SMITH	DRE-120-40.5	STORAGE TANK	ELECTRIC	120	1"	1"	235.7	480	3	40.5	48.7
ELECTRIC WATER HEATER EWH-2	A.O. SMITH	DRE-80-15	STORAGE TANK	ELECTRIC	80	1"	1"	87.3	480	3	15.0	18.0
ELECTRIC WATER HEATER EWH-3	A.O. SMITH	DRE-120-40.5	STORAGE TANK	ELECTRIC	120	1"	1"	235.7	480	3	40.5	48.7

NOTES:
1. PROVIDE WITH HOLDRITE FLOOR MOUNTED WATER HEATER PLATFORM.
2. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND DIAL THERMOMETER IN HW OUTLET PIPING
3. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	kW	HP
CIRCULATION PUMP CP-1 CP-2 CP-3	GRUNDFOS	MAGNA-3 32-60	ALL STAINLESS STEEL FLANGED PUMP, WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS WITH INTEGRAL HEAT SENSING AQUASTAT CONTROLLER AND FLOW CONTROL SENSOR. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 12.5FT HEAD LOSS.	115	1	106 W	--
TIME SWITCH TS-1	INTERMATIC	EH-10	ELECTROMECHANICAL 24 HOUR TIME SWITCH POWERED BY A SELF STARTING SYNCHRONOUS MOTOR. INSTALL ON WALL ADJACENT TO CIRCULATING PUMP. COORDINATE WITH ELECTRICAL AND PROVIDE FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.	120	1	--	--
THERMAL EXPANSION TANK ET-1 ET-3	WATTS	PLT-20	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 8.5 GALLONS.	--	--	--	--
THERMAL EXPANSION TANK ET-2	WATTS	PLT-12	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 4.5 GALLONS.	--	--	--	--

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	SIZE
WHA-A	1-11	1/2" NPT
WHA-B	12-32	3/4" NPT
WHA-C	33-60	1" NPT
WHA-D	61-113	1 1/4" NPT
WHA-E	114-154	1 1/2" NPT
WHA-F	155-330	2" NPT

ASME 1998 PRE-CHARGED SHOCK ARRESTOR FITTING SIZED AND LOCATED IN ACCORDANCE WITH P.D.I. STANDARD WH-201 SHOCK ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE SUITABLE FOR INSTALLATION WITHOUT REQUIREMENT FOR ACCESS DOORS.

SHOWER/TUB - 2 FU
WATER CLOSET (TANK) - 5 FU
WATER CLOSET (FV) - 10 FU
URINAL - 5 FU
LAVATORY - 2 FU
DRINKING FOUNTAIN - 2 FU
MOP SINK - 4 FU
SINK/HAND SINK - 3 FU
3 COMPARTMENT SINK - 12 FU

AT GROUPS OF FIXTURES LOCATE BETWEEN THE LAST TWO FIXTURES (TYP)

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES				DESCRIPTION
	WASTE & VENT		CW	HW	
WATER CLOSET WC-1 FLOOR MOUNT	4"	2"	1"	---	AMERICAN STANDARD No. 2234.001 "MADERA" WHITE V.C. ELONGATED SIPHON FLOOR MOUNT (1.28 GPF) BOWL WITH TOP SPUD, LESS EVERCLEAN.
FLUSH VALVE					ZURN MODEL: Z6000AV-2HET EXPOSED MANUAL DIAPHRAGM FLUSH VALVE WITH TOP SPUD CONNECTION.
ACCESSORIES					OLSONITE No. 95SSCT ELONGATED WHITE OPEN FRONT SEAT LESS COVER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
WATER CLOSET WC-2 FLOOR MOUNT **ADA**	4"	2"	1"	---	AMERICAN STANDARD No.3043.001 "MADERA" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-1	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" WHITE V.C. WASHOUT FIXTURE (0.125 GPF) WITH WALL HANGERS, MOUNTING BRACKET, S.S. STRAINER 047068-0070A, TOP SPUD
FLUSH VALVE					SLOAN ROYAL No.186-0.13 FLUSH VALVE TOP SPUD 0.125 GPF EXPOSED MANUAL DUAL FILTER DIAPHRAGM URINAL FLUSH VALVE.
ACCESSORIES					ZURN Z1222 - PLATE TYPE SYSTEM WITH BEARING PLATE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-2 **ADA**	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
LAVATORY L-1 ADA WALL MOUNT	2"	2"	1/2"	1/2"	AMERICAN STANDARD NO. 9024.004ED 20" X 18" V.C. LAVATORY, REAR OVERFLOW OR LESS OVERFLOW FAUCET HOLES DRILLED ON 4" CENTER FAUCET HOLES, RECESSED SELF-DRAINING DECK. PROVIDED WITH HANGER PLATE AND HOLES FOR CONCEALED ARM CARRIER.
FAUCET					ZURN Z8915-XL BATTERY-POWERED, POLISHED CHROME-PLATED CAST BRASS SENSOR FAUCET WITH INFRARED PROXIMITY SENSOR FOR RETROFIT AND NEW CONSTRUCTION. 0.5 GPM AERATOR AND MOUNTING HARDWARE. INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR, 30-SECOND TIME OUT FEATURE, CHROME-PLATED, CAST BRASS BODY, IN-LINE FILTER, 4 "AA" BATTERIES.
ACCESSORIES					GRID DRAIN MODEL# Z8743-PC CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG FURNIESHED W/ 5" LONG, CHROME PLATED BRASS 17 GAUGE TAILPIECE. P-TRAP W/ WALL BEND Z8700-8B-PC CHROME PLATED CAST BODY 1-1/2" P-TRAP WITH CLEANOUT, TUBULAR WALL BENT, SHALLOW ESCUTCHEON WITH COMPRESSION INLET. SUPPLY STOPS MODEL # Z#8822-XL-LRLK-PC CHROME PLATE, SOLID BRASS ANGLE STOPS WITH LOOSE KEY, FLEXIBLE CHROME PLATED COPPER LABATORY RISERS COMPLETE WITH PLATED STEEL FLANGES. ZURN Z1231 CONCEALED ARM WALL CARRIER
LAVATORY L-2 (COUNTER MOUNTED)	2"	2"	1/2"	1/2"	KOHLER MODEL: K-21058 UNDERMOUNT WHITE V.C. LAVATORY WITH REAR OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTER FAUCET HOLES
FAUCET					ZURN Z8915-XL BATTERY-POWERED, POLISHED CHROME-PLATED CAST BRASS SENSOR FAUCET WITH INFRARED PROXIMITY SENSOR FOR RETROFIT AND NEW CONSTRUCTION. 0.5 GPM AERATOR AND MOUNTING HARDWARE. INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR, 30-SECOND TIME OUT FEATURE, CHROME-PLATED, CAST BRASS BODY, IN-LINE FILTER, 4 "AA" BATTERIES.
ACCESSORIES					GRID DRAIN MODEL# Z8743-PC CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG FURNIESHED W/ 5" LONG, CHROME PLATED BRASS 17 GAUGE TAILPIECE. P-TRAP W/ WALL BEND Z8700-8B-PC CHROME PLATED CAST BODY 1-1/2" P-TRAP WITH CLEANOUT, TUBULAR WALL BENT, SHALLOW ESCUTCHEON WITH COMPRESSION INLET. SUPPLY STOPS MODEL # Z#8822-XL-LRLK-PC CHROME PLATE, SOLID BRASS ANGLE STOPS WITH LOOSE KEY, FLEXIBLE CHROME PLATED COPPER LABATORY RISERS COMPLETE WITH PLATED STEEL FLANGES. ZURN Z1231 CONCEALED ARM WALL CARRIER
LAVATORY L-3 WALL MOUNT ADA	2"	2"	1/2"	1/2"	BRADLEY MODEL: ELX-3-S53-3500-R-T-5 EXPRESS LAVATORY SYSTEM. THREE STATION MOLDED, ANCHORED TO WALL. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT & COLOR AND CONFIGURATION.
FAUCET					BRADLEY MODEL: S3-3500 LINEA W/ TOUCH FREE BATTERY POWERED SENSOR ACTIVATION. WATER SUPPLY TO BE WITH MIXING VALVE. FLOW CONTROL 0.5 GPM MULTIPLE INDIVIDUAL LAMINAR STREAM. FAUCET FINISHED TO BE POLISHED CHROME. PROVIDE WITH SOAP DISPENSER OWNER TO DETERMINE TYPE TO BE USED. HAND DRYER TO BE INSTALLED. COORDINATE SENSER WITH OWNER REQUIREMENTS. FINAL COLOR AND FINISHED TO BE DETERMINED BY ARCHITECTURAL DRAWINGS.
ACCESSORIES					PROVIDE WITH THERMOSTATIC MIXING VALVE ASSEMBLY (ASSE 1070 COMPLIANT). PROVIDE W/ STAINLESS STEEL BRACKETS SUPPORTS AS NEEDED PER MANUFACTURER REQUIREMENTS. SINGLE CHROME PLATED P-TRAP WITH SWING DOWN STAINLESS STEEL ACCESS PANEL.
SINK SK-1 **ADA** FAUCET	2"	2"	1/2"	1/2"	ELKAY No. LRAD-2219 "LUSTERTONE" SINGLE COMPARTMENT SINK, THREE HOLE PUNCH, **6" DEEP** STAINLESS STEEL SINK WITH OFF CENTER REAR DRAIN OPENING. CHICAGO NO. 201-AE35-317ABCP (1.5 GPM)SWING SPOUT FAUCET WITH BRASS LEVER HANDLES AND SWING SPOUT
ACCESSORIES					REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS. PROVIDE TMV-1 .
SINK SK-2 **ADA** FAUCET	2"	2"	1/2"	1/2"	ELKAY No. LRAD-3119 "LUSTERTONE" DOUBLE COMPARTMENT SINK, THREE HOLE PUNCH, **6" DEEP** STAINLESS STEEL SINK WITH OFF CENTER REAR DRAIN OPENING. ZURN MODEL: Z871B4-XL POLISHED CHROME-PLATED 8" BRASS DECK FAUCET WITH RIGID SPOUT AND QUARTER TURN CERAMIC DISC CARTRIDGES. 2.0 GPM AERATOR FLOW CONTROL IN BASE SPOUT.
ACCESSORIES					REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS. PROVIDE TMV-1 SET TEMPERATURE TO 90°.
KITCHEN SINK K-1	2"	2"	1/2"	1/2"	ADVANCED TABCO 7-PS-68 WALL MOUNTED HAND SINK, TWO HOLE VERTICAL PUNCH, **5" DEEP** 20 GAUGE 304 STAINLESS STEEL SINK WITH 1.0 GPM HEAVY DUTY SLASH MOUNTED GOOSENECK FAUCET WITH WRIST BLADES, BASKET DRAIN, WALL BRACKET.
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA	2"	2"	1/2"	---	ELKAY MODEL LVRCGRNTLBWSK EZH2O BOTTLE FILLING STATION & BI-LEVEL HIGH EFFICIENCY VANDALRESISTANT COOLER FILTERED REFRIGERATED STAINLESS CHILING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL*, FILTERED, GREEN TICKER, HANDS FREE, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT STREAMSAVER ™ BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 2 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS					1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES					REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
THERMOSTATIC MIXING VALVE TMV-1	---	---	1/2"	1/2"	POWERS MODEL: LFe480 ADJUSTABLE POINT-OF-USE LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET TEMPERATURE AT 90°. PROVIDE WITH MOUNTING BRACKET.
AUTOMATIC FLOW REGULATOR AFR	---	---	---	VARIES	THERM-OMEGA-TECH CIRCUIT SOLVER ASSEMBLY (CSUAS) - SELF ACTUATING THERMOSTATIC BALANCING VALVE. VALVE OPEN SHALL BE SET TO 125 DEG F. PROVIDE LINE SIZED ASSEMBLIES.
FLOOR DRAIN FD-1	3"	2"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
FLOOR DRAIN FD-2	3"	2"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 7" DIAMETER TYPE 'E' STRAINER, TRAP PRIMER CONNECTION AND 4" DIAMETER FUNNEL GRATE. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
FLOOR DRAIN FD-3 MECHANICAL ROOMS	3"	2"	---	---	ZURN No. Z-540-12 CAST IRON MEDIUM DUTY DRAIN, LESS GRATE AND SUR-SET BUCKET STRAINER. PROVIDE DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
FLOOR SINK FS-1	4"	2"	---	---	ZURN No. ZN-1902-2-25-K, 12" SQUARE, 10" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR, SEDIMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB.
FLOOR SINK FS-2	3"	2"	---	---	ZURN No. ZN-1901-2-25-K, 12" SQUARE, 8" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR, SEDIMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
ELECTRONIC TRAP PRIMER ETP-1F "FLUSH MOUNTED"	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS: "MINI-PRIME" MPB-500-115V. ELECTRONIC TRAP PRIMING MANIFOLD WITH COMPONENTS ENCLOSED IN FLUSH MOUNTED NEMA ENCLOSURE. UNIT SHALL BE WIRED FOR OPERATION ON 115 VOLTS AND SHALL INCLUDE RECYCLE TIMER (PRE-SET FOR 12 SECONDS EVERY 24 HOURS), UL LISTED SOLENOID VALVE, CIRCUIT BREAKER AND 1/2" NPT PIPE CONNECTIONS. UNIT SHALL MEET REQUIREMENTS OF ASSE STANDARD 1044. PROVIDE DISTRIBUTION UNIT TO SERVE UP TO FOUR DRAINS WHERE APPLICABLE. POWER REQUIREMENTS: 120V/1PH
TRAP GUARD TG-1	---	---	---	---	PRO-SET TRAP GUARD. INSTALL AS PER DETAIL SHOWN ON P6.01.
AIR ADMITTANCE VALVE AAV-1	---	---	---	---	OATEY 39 SERIES SURE-VENT AIR ADMITTANCE VALVE. INSTALL AS PER MANUFACTURER GUIDELINES.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

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07/02/2026

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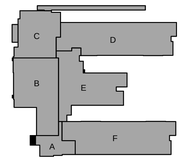

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Project Number: 24.23
Drawing Date: 11/20/2025
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Sheet Title:
PLUMBING SCHEDULES

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TBPE Firm Registration No. 2234
DBR Project# 254026.000
RM | IL/CQ | MK/AB | CG/CR | --

P5.01

DOMESTIC BOOSTER PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TOTAL SYSTEM FLOW RATE (GPM)	FLOW RATE PER PUMP (GPM)		BOOST PRESSURE (PSI)	SUCTION HEAD (PSI)	DISCHARGE PRESSURE (PSI)	RPM	MOTOR RATING HP (EACH)	ELECTRICAL REQUIREMENTS		
				PUMP QTY	PUMP GPM						Voltage (V)	Phase	HZ
DWBP-1	GRUNDFOS	HYDRO MPC-E 3CRE 10-2	155	3	52	18	48	66	3600	1.5	480	3	60

GENERAL NOTES:
1. DOMESTIC WATER BOOSTER PUMP PACKAGE. VERTICAL MULTISTAGE PUMPS WITH VARIABLE FREQUENCY DRIVE CONTROL.
2. REFER TO ELECTRICAL DRAWINGS FOR MOTOR VOLTAGE AND PHASE REQUIREMENTS.
3. CONTRACTOR TO COORDINATE ALL REQUIREMENTS WITH ELECTRICIAN PRIOR TO EQUIPMENT ORDERING.
4. DBP-1 MOTORS TO BE TEFC.
5. PROVIDE WITH 4" MAINTENANCE PAD, MAINTENANCE PAD TO BE 6" WIDER THAN LARGEST DIMENSION OF EQUIPMENT.
6. VFD'S TO BE SUPPLIED IN MINIMUM NEMA 3R ENCLOSURE WITH THERMOSTATICALLY CONTROLLED COOLING FAN.
7. PROVIDE ELBI DWT-200-V BLADDER TANK OR AN APPROVED EQUAL.

FIRE PUMP SYSTEM AND EQUIPMENT

TYPE	DESCRIPTION	MANUFACTURER & MODEL	MINIMUM PERFORMANCE CRITERIA	NOTES	ELECTRICAL REQUIREMENTS			
					VOLTS (V)	PHASE	Hz	HP
FP-1	FIRE PUMP	PEERLESS PUMPS 5PVF7	ELECTRIC DRIVEN, SINGLE STAGE, VERTICAL INLINE, UL LISTED/FM APPROVED FIRE PUMP, 500 GPM AT 80 PSI OUTLET PRESSURE (50 PSI OF BOOST, SEE NOTE 4 BELOW), 25 HP, 3,520 RPM. PROVIDE PUMP WITH 125 POUND SUCTION AND DISCHARGE FLANGES.	1,2,3,4,5, 6,7,8,9,10	480	3	60.0	25.0
JP-1	JOCKEY PUMP	GRUNDFOS SERIES CR-1	ELECTRIC DRIVEN, VERTICAL MULTI-STAGE PUMP, ALL HYDRAULIC COMPONENTS OF 304 STAINLESS STEEL CONSTRUCTION, TOTALLY ENCLOSED FAN COOLED (TEFC) MOTOR. 5.0 GPM @ 90 PSI. 1.0 HP, 3450 RPM. MINIMUM 1" SUCTION AND DISCHARGE CONNECTIONS, 125 POUND FLANGES.	1	480	3	60.0	1.0
FPC-1	FIRE PUMP CONTROLLER	FIRETROL SERIES FTA-1930	ELECTRIC FIRE PUMP CONTROLLER FOR 17 HP PUMP, COMBINED MANUAL AND AUTOMATIC CONTROLLER, SOFT START REDUCED VOLTAGE STARTING, DIGITAL MICROPROCESSOR BASED. 100,000 AMP WITHSTAND RATING. COMPLETE WITH NEMA 4 ENCLOSURE, AND VOLTAGE SURGE PROTECTOR.	1	480	3	60.0	N/A
JPC-1	JOCKEY PUMP CONTROLLER	FIRETROL SERIES FTA-570	ELECTRIC JOCKEY PUMP CONTROLLER FOR 1.0 HP PUMP, MICROPROCESSOR BASED, FULL VOLTAGE, ACROSS THE LINE CONTROLLER. COMPLETE WITH NEMA 4 ENCLOSURE.	1	480	3	60.0	N/A

NOTES:
1. CONFIRM MOTOR VOLTAGE AND PHASE REQUIREMENTS WITH ELECTRICAL DRAWINGS. CONTRACTOR TO COORDINATE ALL SUCH REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.
2. PROVIDE FIRE PUMP SYSTEM COMPLETE WITH PUMP, DRIVER, CONTROLLER AND ACCESSORIES.
3. FIRE PUMP SHALL DELIVER NOT LESS THAN 150% OF RATED FLOW AT A PRESSURE NOT LESS THAN 65% OF RATED PRESSURE. THE SHUT OFF PRESSURE SHALL NOT EXCEED 140% OF RATED PRESSURE.
4. EXPECTED SUCTION PRESSURE IS 30 PSIG.
5. PROVIDE 6"x5" ECCENTRIC TAPERED SUCTION REDUCER AND 3"x6" CONCENTRIC TAPERED DISCHARGE INCREASER.
6. PROVIDE 6" FIRE PUMP BYPASS COMPLETE WITH LISTED CHECK VALVE.
7. PROVIDE A 6" FIRE PUMP TEST LOOP, NORMALLY CLOSED, COMPLETE WITH MINIMUM 5" SIZE VENTURI TYPE FLOW METER DEVICE, BY GLOBAL VISION INC. (GVI).
8. PROVIDE 4" HOSE VALVE TEST HEADER SUPPLY (UNLESS PIPE LENGTH EXCEEDS 15'-0", VERIFY IN FIELD AND INCREASE PIPE SIZE IN ACCORDANCE WITH NFPA 20).
9. PROVIDE WALL-MOUNTED HOSE VALVE TEST HEADER WITH A MINIMUM OF (2) 2-1/2" HOSE VALVES, NST THREAD, COMPLETE WITH CAPS AND CHAINS.
10. PROVIDE SYSTEM PIPING TO A FIRE DEPARTMENT CONNECTION COMPLETE WITH LISTED CHECK VALVE WITH APPROVED AUTOMATIC DRAIN VALVE, IN ACCORDANCE WITH NFPA AND LOCAL AHJ REQUIREMENTS.

GREASE INTERCEPTOR SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES WASTE & VENT		DESCRIPTION
ACID WASTE INTERCEPTOR ANT-1	2"	2"	PARK EQUIPMENT CO. ANT-PH 150-PP ACID NEUTRALIZATION TANK. 150 GALLON CAPACITY, RATED FOR 300 GAL/HR FLOW. DESIGNED FOR 29 LAB STATIONS. PROVIDE WITH HIGH DENSITY POLYETHYLENE INTERIOR LINER AND HIGH DENSITY POLYETHYLENE EXTERIOR LINER. REFER TO MEP PLANS FOR INLET AND OUTLET CONNECTION POINTS AND SIZES. ALL JOINTS SHALL BE SEALED WATER TIGHT WITH PLASTIC FLEXIBLE GASKET. INCLUDE LEAK DETECTION ALARM AND PH ALARM. COORDINATE WITH ELECTRICAL CONTRACTOR. INSTALL IN ACCORDANCE WITH MANUFACTURER GUIDELINES AND SPECIFICATIONS.
GREASE INTERCEPTOR GT-1	4"	2"	PARK EQUIPMENT CO. GT-1000 WITH GAS TIGHT, TRAFFIC RATED COVERS. 1000 US GAL LIQUID CAPACITY, 2300 LBS GREASE CAPACITY 8'-8" LONG x 5'-0" WIDE x 6'-0" HEIGHT.
SAMPLE WELL SW-1	4"	---	SCHIER MODEL: SV-24 SEWER SAMPLING PORT, H-20 TRAFFIC RATED COVER. COVER SHALL BE PROVIDED WITH WATER/GAS-TIGHT SEAL.PROVIDE WITH RISER AS NEEDED.

GENERAL NOTES:
1. COORDINATE LOCATION WITH CIVIL DRAWINGS.
2. CONTRACTOR TO COORDINATE IF VENT IS REQUIRED.
3. PROVIDE SAMPLE WELL AFTER GREASE TRAP AND ACID WASTE NEUTRALIZATION TANK.

Grease Interceptor Sizing Worksheet — Drainage Fixture Unit Method

Project:	Harmony Public Schools - Science Academy (City of Midland
Location:	Midland, TX
Engineer (or Name):	DBR Engineering Consultants Inc.
Firm:	Park Equipment
Date:	8/28/2025

Fixture Type	Trap Arm Size	Fixture Units FU	Quantity	Other Factors (if applicable)	Extended
3-Compartment Sink - 1.5" arm	1-1/2"	3	1		3
3-Compartment Sink - 2" arm	2"	4	0		0
2-Compartment Sink - 1.5" arm	1-1/2"	3	0		0
Dishwasher	2"	4	0		0
Mop Sink	1-1/2"	3	0		0
Mop Sink	2"	4	0		0
Mop Sink	3"	6	1		6
Mop Sink	4"	8	0		0
Pot Sink (pre-rinse sink)	1-1/2""	3	0		0
Pot Sink (pre-rinse sink)	2"	4	0		0
Hand Sink	1-1/4"	2	2		4
Hand Sink	1-1/2"	3	0		0
Floor Drain - 2"	2"	4	0		0
Floor Drain - 3"	3"	6	2		12
Floor Drain - 4"	4"	8	0		0
Trench Drain	4"	4	0		0
Other			0		0
Other			0		0
				Total Fixture Units	25
				GreaseTrooper Size	GT - 1000

Gravity Grease Interceptor Sizing (2015 IPC)

DFUs (1, 3)	Interceptor Volume (2)	Park Model
8	500 gallons	GT - 500
21	750 gallons	GT - 750
35	1,000 gallons	GT - 1000
90	1,250 gallons	GT - 1250
172	1,500 gallons	GT - 1500
216	2,000 gallons	GT - 2000
307	2,500 gallons	GT - 2500
342	3,000 gallons	GT - 3000
428	4,000 gallons	GT - 4000
576	5,000 gallons	GT - 5000
720	7,500 gallons	GT - 8000
2112	10,000 gallons	GT - 10000
2640	15,000 gallons	GT - 15000

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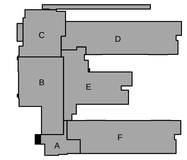

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Project Number: 24.23
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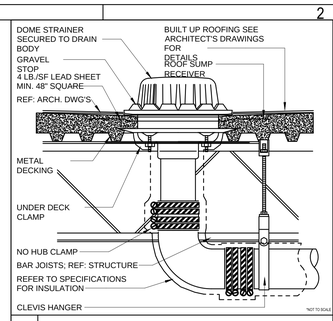
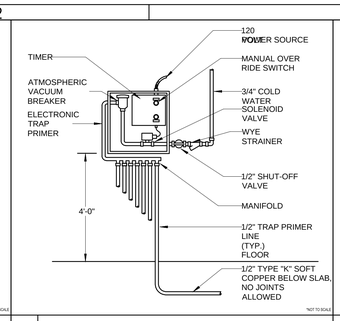
PLUMBING SCHEDULES

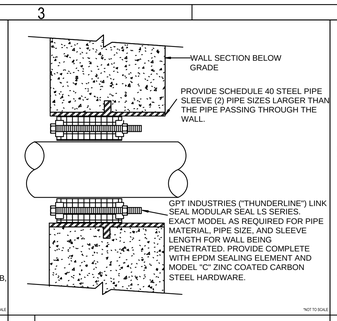
P5.02



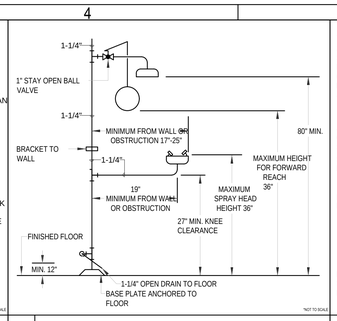
6 ROOF DRAIN P1047



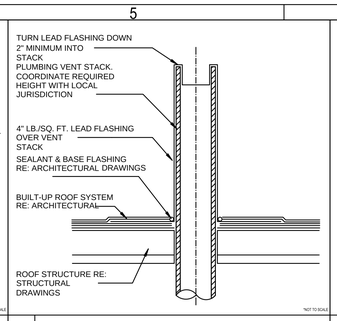
5 ELECTRONIC TRAP PRIMER TP-1 P1046



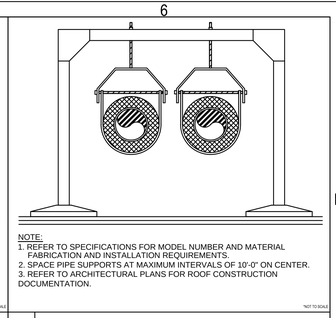
4 PIPE PENETRATION BELOW GRADE P1056



3 EMERGENCY SHOWER/EYEWASH P1161



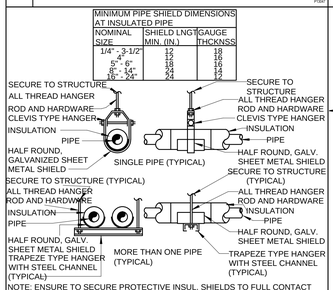
2 VENT THRU ROOF P1012



NOTE:
1. REFER TO SPECIFICATIONS FOR MODEL NUMBER AND MATERIAL FABRICATION AND INSTALLATION REQUIREMENTS.
2. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
3. REFER TO ARCHITECTURAL PLANS FOR ROOF CONSTRUCTION DOCUMENTATION.

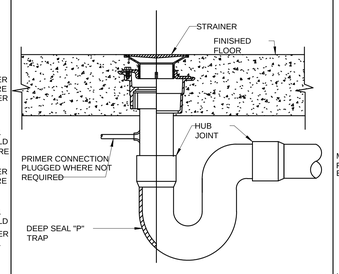
1 PIPE HANGER ON ROOF P1013

MINIMUM PIPE SHIELD DIMENSIONS AT INSULATED PIPE		
NOMINAL SIZE	SHIELD LNG MIN. (IN.)	GAUGE THCKNSS
1/4" - 3-1/2"	12	18
4"	12	16
5" - 6"	18	16
8" - 14"	24	14
16" - 24"	24	12

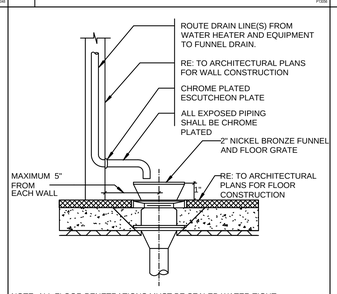


NOTE: ENSURE TO SECURE PROTECTIVE INSUL. SHIELDS TO FULL CONTACT CONTACT AREA WITH PIPE INSULATION WITH 1/8" THICK COATING OF MASTIC.

12 TYPICAL INSULATED PIPE HANGER INSTALLATION P1044

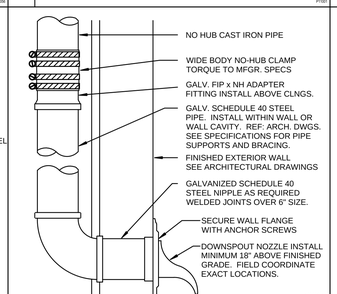


11 FLOOR DRAIN P1045

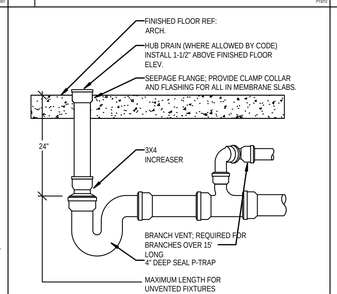


NOTE: ALL FLOOR PENETRATIONS MUST BE SEALED WATER TIGHT.

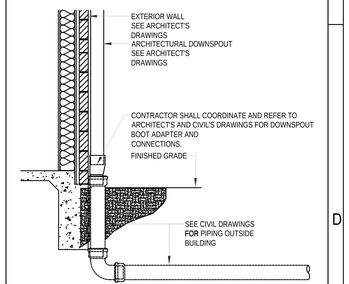
10 TYPICAL FUNNEL AND DRAIN P1015



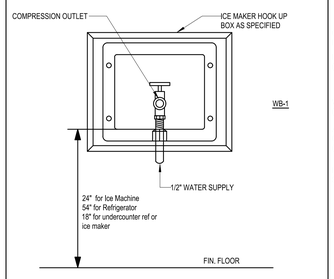
9 DOWNSPOUT NOZZLE P1016



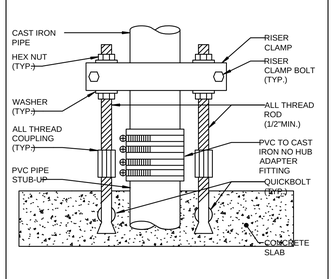
8 COMBINED WASTE/VENT P1010



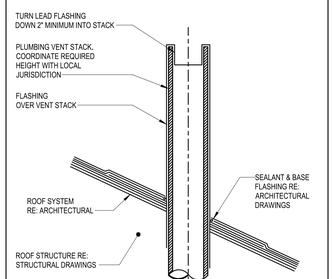
7 DOWNSPOUT ADAPTER P1050



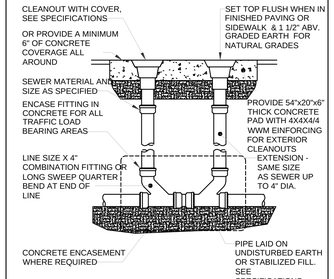
18 ICE MAKER SUPPLY BOX P1767



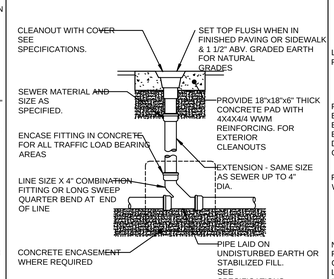
17 PVC TO CAST IRON SUPPORT P1008



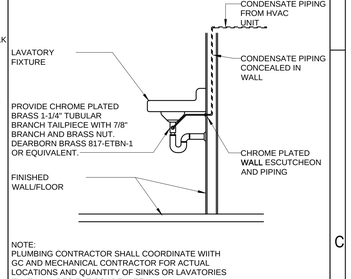
16 VENT THRU PITCH ROOF P1300



15 TWO-WAY CLEANOUT (TWCO) P1081

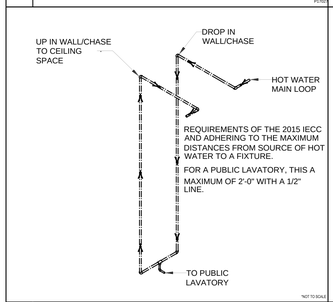


14 CLEANOUT P1069

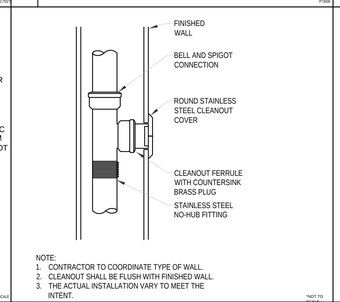


NOTE:
PLUMBING CONTRACTOR SHALL COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR ACTUAL LOCATIONS AND QUANTITY OF SINKS OR LAVATORIES THAT WILL RECIEVE CONDENATE.

13 CONDENSATION TERMINATION P1062

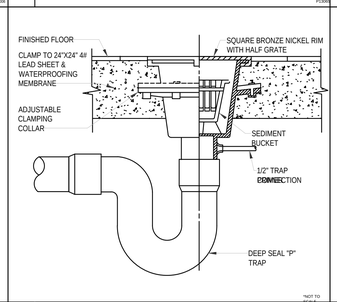


24 HOT WATER LOOP W/O BYPASS P1079

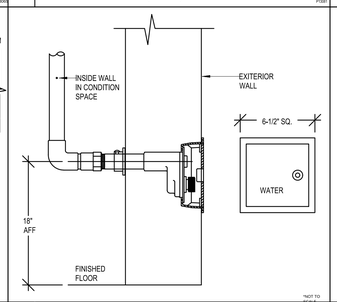


NOTE:
1. CONTRACTOR TO COORDINATE TYPE OF WALL.
2. CLEANOUT SHALL BE FLUSH WITH FINISHED WALL.
3. THE ACTUAL INSTALLATION VARY TO MEET THE INTENT.

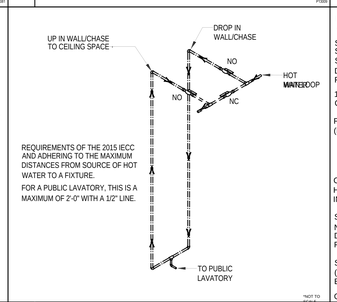
23 WALL CLEANOUT P1300



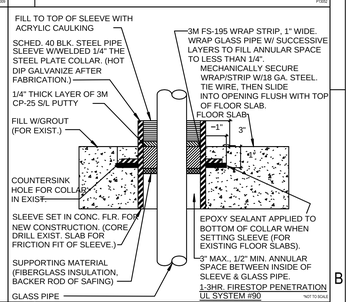
22 FLOOR SINK DRAIN P1305



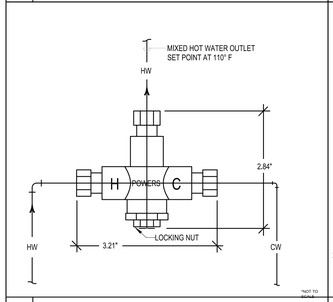
21 WALL HYDRANT P1767



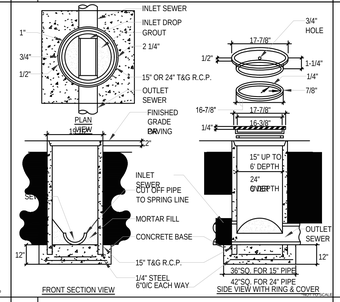
20 HOT WATER LOOP W/BYPASS P1306



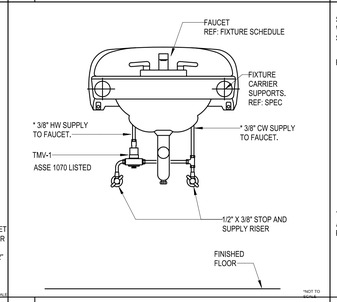
19 PIPE PENETRATION P1082



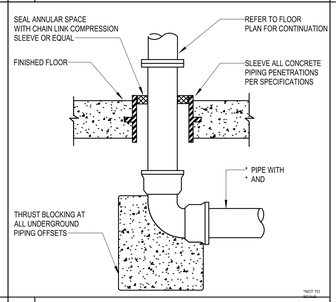
28 THERMOSTATIC MIXING VALVE P1703



27 SAMPLE WELL (SW-1) P1800



26 TMV-1 INSTALLATION P1703



25 PIPE THRU FLOOR PENETRATION P1762

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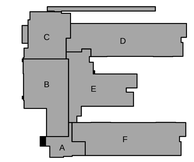

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
	ISSUE FOR BID	2026-07-02

Sheet Title:

PLUMBING DETAILS

DBR
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https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project#. 254026.000

RM	IL/CQ	MK/AB	CG/CR	---

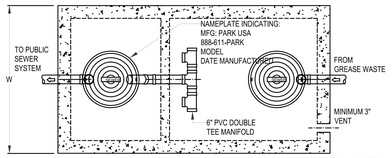
P6.01

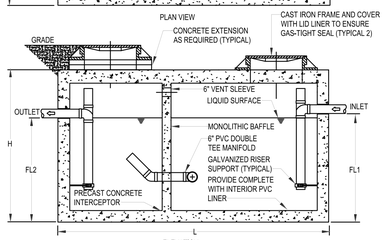
SPECIFICATIONS:

CONCRETE
CLASS III CONCRETE WITH DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH, MONOLITHIC BAFFLE REQUIRED, SLIDE-IN TYPE IS NOT ACCEPTABLE.

REINFORCEMENT
GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

CAST IRON CASTINGS
MANHOLE FRAMES AND COVERS MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.



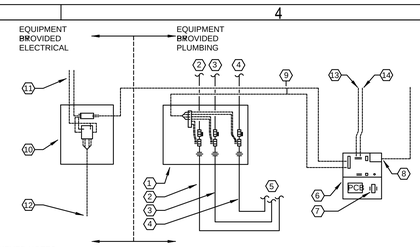


GREASE INTERCEPTOR SCHEDULE									
MARK	PARK USA MODEL	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-1	GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"

"NOT TO SCALE"

31 GREASE INTERCEPTOR

P1602



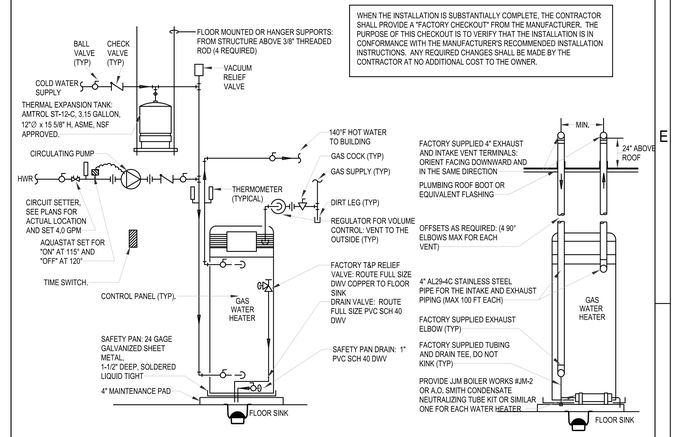
SCHEMATIC DIAGRAM KEYED NOTES:

1. SOLENOID VALVE ENCLOSURE PROVIDED BY PLUMBING CONTRACTOR. LOCATE IN ADJACENT PREP ROOM UNLESS INDICATED OTHERWISE ON DRAWINGS. ALL PIPED UTILITIES GOVERNED BY CONTROLLER SHALL BE ROUTED THROUGH THIS UNIT. ENSURE REQUIRED MAINTENANCE ACCESS/CLEARANCE FOR ENCLOSURE. ALL ASSOCIATED SOLENOID VALVES SHALL BE NORMALLY CLOSED, ENERGIZE TO OPEN TYPE.
2. DOMESTIC COLD WATER (SIZE AS INDICATED ON DRAWINGS).
3. NATURAL GAS (SIZE AS INDICATED ON DRAWINGS).
4. ADDITIONAL PIPED UTILITY - COMPRESSED AIR, ETC. (ONLY IF AND AS INDICATED ON DRAWINGS, AND SIZED AS NOTED).
5. UTILITIES ROUTED TO SINK FAUCETS AND GAS TURRETS (ROUTING AND SIZES AS INDICATED ON DRAWINGS).
6. UTILITY CONTROLLER PROVIDED BY PLUMBING CONTRACTOR. LOCATE ADJACENT TO INSTRUCTOR'S STATION UNLESS INDICATED OTHERWISE ON DRAWINGS. UNIT SHALL BE PROVIDED COMPLETE WITH EMERGENCY SHUT-OFF CONTROLS FOR EACH UTILITY (WATER, GAS, ELECTRICITY, ETC.) AND SHALL BE PROVIDED IN A LOCATION ACCESSIBLE TO THE INSTRUCTOR BUT NOT EASILY ACCESSIBLE TO STUDENTS.
7. FACTORY INSTALLED 24 VAC TRANSFORMER HOUSED WITHIN UTILITY CONTROLLER.
8. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC POWER SUPPLY TO UTILITY CONTROLLER AND MAKE CONNECTION AT UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
9. ELECTRICAL CONTRACTOR TO PROVIDE MINIMUM 18 GAUGE 24VAC CONTROL WIRING TO EACH SOLENOID AND RELAY.
10. ELECTRICAL CONTRACTOR TO PROVIDE CONTACT ENCLOSURE WITH NUMBER OF CONTACTS AS REQUIRED TO CONTROL ALL CIRCUITS SERVING DESIGNATED ELECTRICAL RECEPTACLES IN THE SCIENCE CLASSROOM. REFER TO ELECTRICAL POWER DRAWINGS AND CONTACTOR SCHEDULE.
11. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC POWER SUPPLY TO CONTACT ENCLOSURE AND MAKE CONNECTION AT UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
12. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC TO ALL DESIGNATED ELECTRICAL RECEPTACLES IN THE SCIENCE CLASSROOM.
13. UTILITY CONTROLLER TO BE PROVIDED COMPLETE WITH A BUILDING AUTOMATION SYSTEM (BAS) INPUT, TO ALLOW SIGNAL TO ENABLE AND DISABLE THE UNIT DURING SPECIFIED TIME PERIODS.
14. UTILITY CONTROLLER TO BE PROVIDED COMPLETE WITH LOW VOLTAGE CONNECTIVITY TO A BUILDING FIRE ALARM SYSTEM, TO AUTOMATICALLY DEACTIVATE THE SYSTEM, INCLUDING ALL OPERATED UTILITIES.

"NOT TO SCALE"

30 SCIENCE LAB/ CLASSROOM UTILITY CONTROL SCHEMATIC DIAGRAM

P1840



WATER HEATER DETAIL (FRONT)

WATER HEATER DETAIL (REAR)

"NOT TO SCALE"

29 GAS SINGLE CONDENSING WATER HEATER

P2602

NOTES:
1. REFER TO PLAN DRAWINGS FOR PIPE SIZES.
2. UNDERGROUND PIPING AND RISERS SHALL BE LOCATED SO AS TO EXTEND NO MORE THAN 10'-0" INSIDE THE BUILDING FROM THE OUTSIDE EDGE OF THE BUILDING.
3. SOME JURISDICTIONS REQUIRE OUTDOOR OPERABILITY OF SYSTEM CONTROL VALVES, IN SUCH INSTANCES, THESE VALVES MUST BE PROVIDED AND THE RISER MUST BE CONFIGURED AND LOCATED ACCORDINGLY.
4. DRAWING IS DIAGRAMMATIC. THE LISTED CHECK VALVE CAN ALSO BE PROVIDED IN A VERTICAL ORIENTATION.
5. ALL POWER AND FLOW/TAMPER SWITCH WORK SHALL BE COORDINATED WITH ELECTRICAL AND FIRE ALARM CONTRACTORS ACCORDINGLY.
6. A WET PIPE SINGLE ZONE/SINGLE RISER ARRANGEMENT IS DEPICTED, FOR BUILDINGS WITH MORE THAN ONE SPRINKLER ZONE/RISER, CONNECTIVITY OF THE FIRE DEPARTMENT CONNECTION MUST BE PROVIDED ON THE WATER SUPPLY UPSTREAM OF THE SYSTEM CONTROL VALVES (NFPA 8.17.2.4.3).

"NOT TO SCALE"

34 SINGLE WET PIPE RISER AND REMOTE FDC - INDOOR CHECK

P1400

NOTES :
1. REFER TO PLANS FOR ANY PIPE SIZES NOT SHOWN.
2. INSTALLATION SHALL COMPLY WITH NFPA 20 AND LOCAL AHJ REQUIREMENTS.
3. ALL VALVES SHALL BE NORMALLY OPEN AND ELECTRONICALLY SUPERVISED UNLESS NOTED OTHERWISE.
4. DCDA BACKFLOW PREVENTER: WATTS-LF757DCDA.

"NOT TO SCALE"

33 FIRE PROTECTION SYSTEM INFRASTRUCTURE SCHEMATIC

P1400

"NOT TO SCALE"

32 SPRINLER RISER ANDSERVICE ELEVATION

P1400

NOTES:
IF INCLUDED IN THE SPECIFICATIONS, A ONE PIECE STAINLESS STEEL RISER MAY BE PROVIDED IN LIEU OF COPPER. PROVIDE IN SIMILAR FASHION AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

*FOR ELEVATED SLABS, HEIGHT AND INSTALLATION MUST BE COORDINATED WITH THE ADJACENT GRADE/PAVING ELEVATION.

"NOT TO SCALE"

37 TYPICAL DOMESTIC WATER ENTRY

P1700

NOTES
1. MOUNT PUMP SECURELY IN AN ACCESSEBLE LOCATION AT 48" A.F.F.
2. ENSURE THERMOMETER IS POSITIONED FOR CLEAR VISIBILITY AND READABILITY FROM A STANDING POSITION AT FLOOR LEVEL.
3. INSULATION IS NOT SHOWN FOR CLARITY BUT SHALL BE PROVIDED AS SPECIFIED.
4. CONTROL BOX SHALL BE ROTATED IN THE FIELD AS NECESSARY PER MANUFACTURER RECOMMENDATIONS TO ENSURE ADEQUATE COOLING. ADDITIONALLY, THE TEMPERATURE OF THE AMBIENT AIR MUST NOT EXCEED 104 DEGREES F.
5. THE PUMP CAN BE INSTALLED IN A HORIZONTAL (AS SHOWN) OR VERTICAL PIPE BUT THE PUMP SHALL ALWAYS BE INSTALLED WITH A HORIZONTAL MOTOR SHAFT. ROTATE PUMP "HEAD" COMPONENT IN THE FIELD AS NECESSARY PER THE MANUFACTURER'S INSTRUCTIONS.
6. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, THE PUMP SHALL BE SET TO CONSTANT TEMPERATURE CONTROL MODE. THIS MODE SHALL KEEP RETURN PIPE TEMPERATURE CONSTANT AND ALSO LIMIT FLOW TO A MAXIMUM RATE. THE PUMP SHALL AUTOMATICALLY RAMP DOWN WHEN WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE. REFER TO THE PLANS FOR SYSTEM TEMPERATURE AND FLOW CRITERIA.

"NOT TO SCALE"

36 DOMESTIC HOT WATER CIRCULATOR PIPING INSTALLATION - VFD CONTROLLED "SMART" PUMP

P1000

1. METER VALVE
2. PRESSURE REGULATOR
3. METER BY-PASS
4. STRAINER
5. LOCKABLE GLOBE VALVE
6. PLUG VALVE (TYPICAL)
7. GAS METER
8. NATURAL GAS PRESSURE REGULATOR
*INLET PRESSURE = RE: GAS COMPANY
*OUTLET PRESSURE = 5 PSI
*FLOW CAPACITY = -,--- CFH

"NOT TO SCALE"

35 GAS METER AND ASSEMBLY

P1000

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07/02/2026

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CITY PLACE
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TEXAS 77379

KEYPLAN

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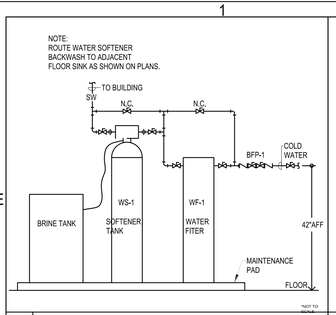
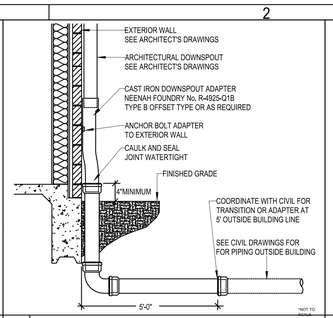
DBR Project# 254026.000

RM	IL/CQ	MK/AB	CG/CR	--

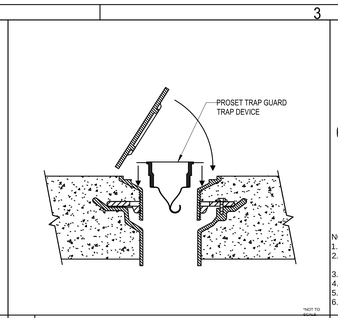
P6.02



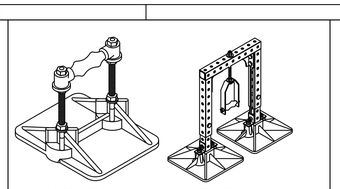
42 **WATER SOFTENER** P1909



41 **DOWNSPOUT ADAPTER** P1908



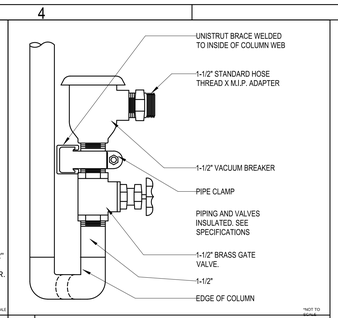
40 **TRAP GUARD DEVICE (TG-1)** P1905



NOTES:
1. SUPPORTS SHOWN ARE FOR TYPICAL SINGLE PIPE INSTALLATION.
2. PROVIDE PORTABLE PIPE HANGER MODEL PP10 W/ ROLLER FOR PIPING 2-1/2" AND SMALLER.
3. PROVIDE PORTABLE PIPE HANGER MODEL PS-1-2 FOR PIPING 3" AND LARGER.
4. HARDWARE AND FINISH SHALL BE HOT DIP GALVANIZED.
5. ADHERE TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
6. MAXIMUM SPACING OF SUPPORTS SHALL NOT EXCEED 6 FEET ON CENTERS. SAGGING OF PIPE IS UNACCEPTABLE.

"NOT TO SCALE"

39 **TYPICAL ROOFTOP PIPING SUPPORTS** P1973



38 **HOSE BIBB ASSEMBLY** P1700

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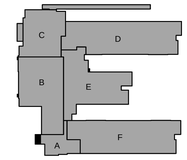

KEYPLAN

Project Number: 24.23
Drawing Date: 11/20/2025

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Sheet Title:

PLUMBING DETAILS

P6.03

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https://www.dbrinc.com
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DBR Project#: 254026.000

RM	IL/CQ	MK/AB	CG/CR	--

TECHNOLOGY SYMBOLS & LEGEND

VOICE SYMBOLS

▼	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▼X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
▼	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
▼X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
▼	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▼X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▽	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
▽X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS PER LOCATION.
▼W	SINGLE VOICE OUTLET FOR WALL-MOUNTED PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.

DATA SYMBOLS

▽	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▽X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
▽	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
▽X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
▽	POWER/COMMUNICATIONS POLE WITH A SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▽X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF DATA OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▽	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
▽X	DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
▽W	SINGLE DATA OUTLET FOR WALL-MOUNTED IP PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.
⊕	SINGLE ABOVE CEILING DATA OUTLET, CABLE TYPE AS SPECIFIED.
⊕X	ABOVE CEILING DATA OUTLET, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.

ROUGH-IN & MISC. SYMBOLS

▽	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▽	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
▽	POWER POLE WITH ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▽	ROUGH-IN LOCATION, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
WAP	WIRELESS ACCESS POINT. EQUIPMENT AS SPECIFIED.

GENERAL SYMBOLS

# SHEET — DRAWING TITLE SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (DF XXX)	INDICATES TELECOMMUNICATIONS REGION

VOICE/DATA SYMBOLS

▼	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▼Y	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. Y = NUMBER OF DATA TERMINATIONS PER LOCATION.
▼	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
▼Y	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, Y = NUMBER OF DATA OUTLETS PER LOCATION AS INDICATED.
▼	POWER/COMMUNICATIONS POLE WITH A SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▼Y	POWER/COMMUNICATIONS POLE WITH Y = NUMBER OF DATA TERMINATIONS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
▽	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
▽Y	DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH Y = NUMBER OF DATA TERMINATIONS PER LOCATION.

FIBER OPTIC SYMBOLS

▽	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
▽X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
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CABLE PLANT & RISER DIAGRAM

◯	MAINTENANCE HOLE, SIZE & TYPE AS SPECIFIED.
□	PULLBOX, SIZE AND TYPE AS SPECIFIED.
UGC	DIRECT BURIED COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
AER	AERIAL COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
———	CONDUIT, SIZE AND TYPE AS SPECIFIED.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
DEMARC	DEMARCATION POINT
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IMC	INTERMEDIATE METAL CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PVC	POLYVINYL CHLORIDE
RSC	RIGID STEEL CONDUIT
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
TR	TELECOMMUNICATION REGION
UGC	UNDERGROUND COMMUNICATION
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF TECHNOLOGY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. TECHNOLOGY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.

INDEX OF DRAWINGS

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T101	OVERALL FLOOR PLAN - TECHNOLOGY
T102	OVERALL FLOOR PLAN - TECHNOLOGY
T300	TECHNOLOGY ENLARGED PLANS
T400	TECHNOLOGY TYPICAL DETAILS
T401	TECHNOLOGY TYPICAL DETAILS
T402	TECHNOLOGY TYPICAL LABELING SCHEME
T403	TECHNOLOGY EQUIPMENT SCHEDULE

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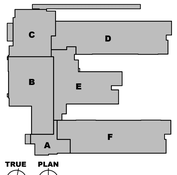

TRUE NORTH PLAN KEYPLAN

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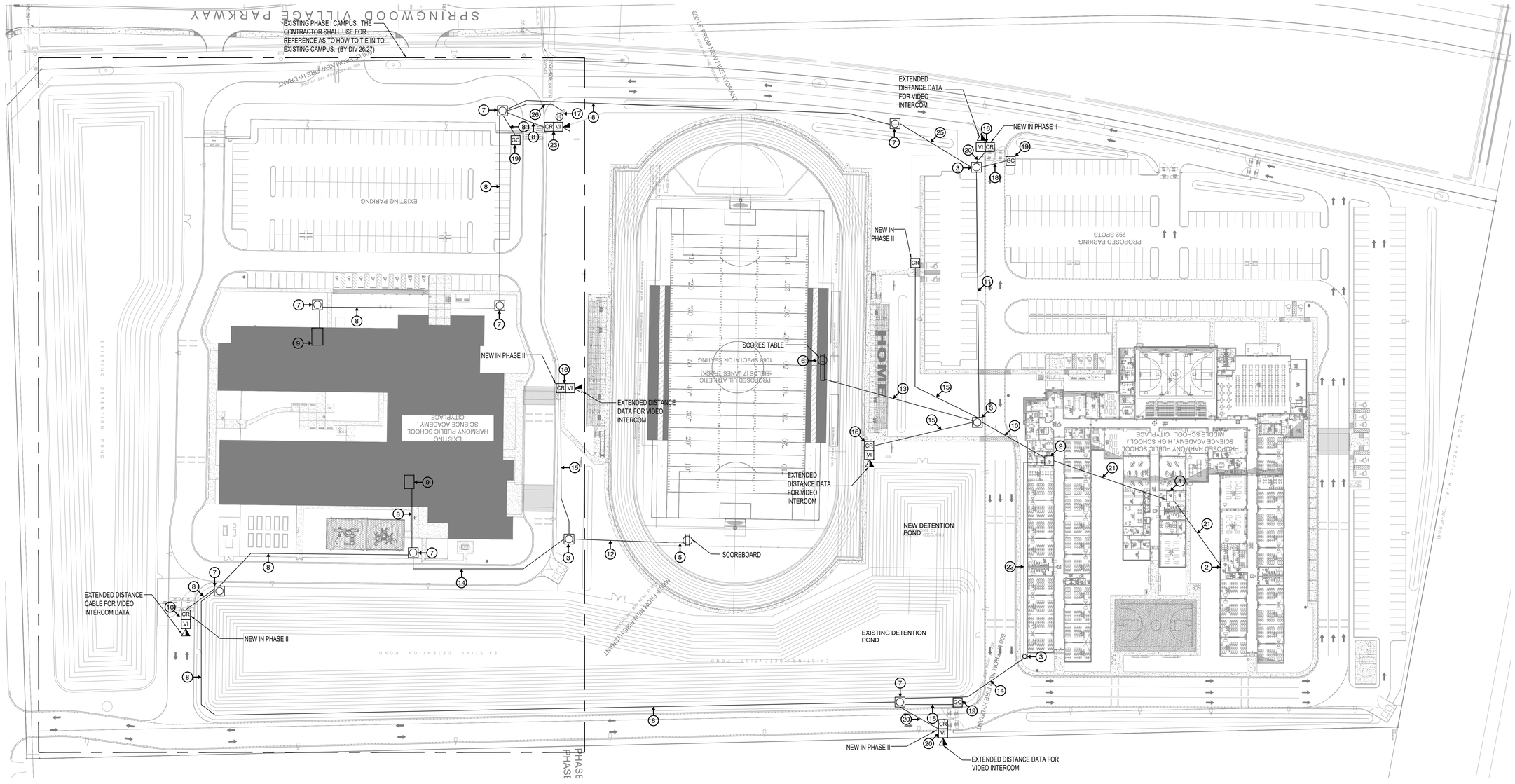
Sheet Title:
TECHNOLOGY SYMBOLS AND LEGENDS

T-000

PLEASE REFER TO PAGE T100 FOR GENERAL AND KEYED NOTES



1 T-001

TECHNOLOGY OVERALL SITE PLAN

SCALE: 1" = 50'-0"

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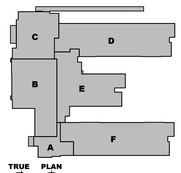

TRUE PLAN KEYPLAN

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Sheet Title:

TECHNOLOGY OVERALL SITE PLAN

T-001

TECHNOLOGY FLOOR PLANS GENERAL NOTES

1. THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS / WIRING BOUNDARIES.
2. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
6. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
7. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
8. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE ALLOWED.
9. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
10. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM
14. ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
15. CONTRACTOR SHALL COORDINATE ALL WALL MOUNTED ROUGH INS, DEVICES INSTALLATIONS WITH THE IN THE CORRIDORS, CAFETERIA, GYM AND EXTERIOR WITH THE ARCHITECTUAL WALL PANELS AND ACOUSTICS PRIOR TO ROUGH IN OR INSTALLATION

TECHNOLOGY FLOOR PLAN KEYED NOTES

1. (1) 2-INCH EMT CONDUIT SLEEVE ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVE SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
2. (2) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
3. (3) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
4. (4) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
5. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR OWNER PROVIDED / OWNER INSTALLED CEILING MOUNTED WIRELESS ACCESS POINT. CONTRACTOR SHALL PLACE A GREEN ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. (BY DIV 27)
6. DATA CABLE FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED WALL MOUNTED PROJECTOR WHERE THERE IS AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE WALL MOUNTED PROJECTOR ROUGH-IN. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
7. DATA CABLE FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED INTERIOR WALL MOUNTED WIRELESS ACCESS POINT WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE WIRELESS ACCESS POINT ROUGH-IN. (BY DIV 26)
8. FLOOR BOX AS SPECIFIED BY DIVISION 27 AND INSTALLED BY DIV 26. PROVIDE (2) 1-INCH CONDUITS DEDICATED FOR DATA CABLE FROM THE FLOOR BOX THROUGH TO ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE FLOOR BOX IS LOCATED. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL CONDUIT ROUGH-IN REQUIREMENTS PRIOR TO INSTALLATION. (BY DIV 26/27)
9. DATA CABLES FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED ACCESS CONTROL SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
10. DATA CABLE FOR MECHANICAL / ELECTRICAL CONTROLS. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
11. DATA CABLE FOR FIRE ALARM PANEL. REFER TO FIRE ALARM DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
12. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. CONTRACTOR SHALL PLACE A YELLOW ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 27)
13. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED INTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA WHERE THERE IS AN ACCESSIBLE CEILING. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL PLACE A YELLOW ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 27)
14. DATA CABLE FOR EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE CAMERA ROUGH-IN. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
15. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA WHERE THERE IS AN ACCESSIBLE CEILING. CONTRACTOR SHALL PLACE A YELLOW ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
16. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON A J-HOOK ABOVE ACCESSIBLE CEILING FOR CONTRACTOR PROVIDED / CONTRACTOR INSTALLED CEILING MOUNTED PROJECTOR WHERE THERE IS AN ACCESSIBLE CEILING. CONTRACTOR SHALL PLACE A PURPLE ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO AUDIO | VISUAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 27)
17. DATA CABLE FOR INTERCOM SYSTEM. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV 26)
18. DATA CABLE FOR POINT OF SALES. CONTRACTOR SHALL REFER TO THE MEP DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL BE PREPARED TO INSTALL PATHWAY FROM THE WALL TO THE POINT OF SALES REGISTER LOCATION AS REQUIRED TO HIDE THE DATA CABLE OR PATCH CORD. (BY DIV 26)
19. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO GET TO THE MAIN CORRIDOR ABOVE CEILING SPACE. (BY DIV 26)
20. DATA CABLE FOR OWNER PROVIDED / OWNER INSTALLED WALL MOUNTED FLAT PANEL WITH CHIEF BACKBOX. DATA CABLE SHALL BE TERMINATED INSIDE THE CHIEF BACK BOX. REFER TO ELECTRICAL DRAWINGS FOR EXACT ROUGH IN REQUIREMENTS. (BY DIV 26)
21. DATA CABLE FOR DIGITAL TIME CLOCK. (BY DIV 26/27)
22. DATA CABLE FOR VERKADA VAPE SENSOR. (BY DIV 26/27)
23. APPROXIMATE LOCATION OF WALL MOUNTED IDF CABINET WITH 20AMP DUPLEX OUTLET MOUNTED DIRECTLY BELOW. (BY DIV 26/27)
24. DATA CABLE FOR WALL MOUNT DUAL SIDE OR SINGLE SIDED CLOCK. REFER TO PAGING DRAWINGS FOR HEIGHTS AND ROUGH IN DETAILS. (BY DIV 26)

TECHNOLOGY SITE PLAN

GENERAL NOTES

1. ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
2. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH WALLS/STRUCTURES FOR TECHNOLOGY CABLING TO PREVENT WATER INFILTRATION INTO THE SPACE.
6. CONDUITS SHALL MAINTAIN A MINIMUM OF 12-INCHES OF WELL TAMPED EARTH OR 3-INCHES OF CONCRETE SEPARATION BETWEEN ANY FOREIGN CONDUITS AND/OR PIPES THROUGHOUT THE ENTIRE CONDUIT PATHWAY.
7. CONDUIT SEGMENTS SHALL BE NO MORE THAN 600-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
8. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
9. CONTRACTOR SHALL PROVIDE DETECTABLE WARNING TAPE 12-INCHES BELOW GRADE ON TOP OF ALL CONDUITS THROUGHOUT THE ENTIRE CONDUIT TRENCH.
10. CONTRACTOR SHALL COORDINATE ALL CONDUIT PATHWAYS WITH THE ARCHITECT AND LANDSCAPE PLAN PRIOR TO BEGINNING ANY TRENCHING.
11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.

SITE PLAN KEYED NOTES

1. APPROXIMATE LOCATION OF NEW MDF ROOM. (BY DIV 27)
2. APPROXIMATE LOCATION OF NEW IDF ROOM. (BY DIV 27)
3. (24)-INCH X (24)-INCH X (24)-INCH HAND HOLE WITH LOCKABLE COVER RATED FOR ENVIRONMENT STAMPED TELECOMMUNICATIONS. COVER OF HANDHOLE SHALL BE FLUSH WITH FINAL FINISHED GRADE. (BY DIV. 26)
4. (36)-INCH X (36)-INCH X (36)-INCH HAND HOLE WITH LOCKABLE COVER RATED FOR ENVIRONMENT STAMPED TELECOMMUNICATIONS. COVER OF HANDHOLE SHALL BE FLUSH WITH FINAL FINISHED GRADE. (BY DIV. 26)
5. APPROXIMATE LOCATION OF SCOREBOARD. REFER TO ELECTRICAL DRAWINGS FOR POWER. PROVIDE (1) 20AMP DUPLEX OUTLET MOUNTED INSIDE THE SCOREBOARD TO SUPPORT THE FIBER OPTIC MEDIA CONVERTOR. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWING FOR EXACT LOCATION. (BY DIV 26/OTHERS)
6. APPROXIMATE LOCATION OF SCORES TABLE. REFER TO ELECTRICAL DRAWINGS FOR POWER. PROVIDE (1) 20AMP DUPLEX OUTLET MOUNTED INSIDE THE SCOREBOARD TO SUPPORT THE FIBER OPTIC MEDIA CONVERTOR. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWING FOR EXACT LOCATION. (BY DIV 26/OTHERS)
7. EXISTING HANDHOLE INSTALLED IN PHASE I.
8. EXISTING CONDUITS INSTALLED IN PHASE I.
9. EXISTING PHASE I IDF ROOM.
10. (1) 4-INCH AND (3) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO IDF ROOM. THE (1) 4-INCH CONDUITS SHALL BE RESERVED FOR THE FIBER TO THE EXISTING CAMPUS. (1) 2-INCH SHALL BE RESERVED FOR MARQUEE BOARD FIBER. (1) 2-INCH SHALL BE RESERVED FOR SECURITY. (1) 2-INCH CONDUIT SHALL BE RESERVED FOR THE SCOREBOARD AND SCORES TABLE FIBER. THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. THE CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
11. (1) 4-INCH AND (1) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO HAND HOLE. THE (1) 4-INCH CONDUIT SHALL BE RESERVED FOR THE FIBER OPTIC CABLE TO THE EXISTING CAMPUS. (1) 2-ICH SHALL BE RESERVED FOR SECURITY. THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. THE CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
12. (1) (1.5-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE HANDHOLE TO THE SCOREBOARD. THE CONDUIT SHALL STUB INTO THE SCOREBOARD. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
13. (1) (1-5-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE HANDHOLE TO THE SCORES TABLE. THE CONDUIT SHALL STUB INTO THE SCORES TABLE. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
14. (2) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO HAND HOLE. THE (1) 2-INCH CONDUIT SHALL BE RESERVED FOR DATA (1) 2-INCH CONDUIT SHALL BE RESERVED FOR SECURITY. THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
15. (1) (1.25-INCH SCHEDULE 40 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO POLE MOUNT CARD READER. CONDUIT SHALL STUB INTO THE CARD READER POLE AND INTO THE SIDE OF THE HAND HOLE. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26).
16. APPROXIMATE LOCATION OF CARD READER AND VIDEO INTERCOM PEDESTAL/POLE. PROVIDE (1) OSP RATED DATA CABLE FOR THE VIDEO INTERCOM. (BY DIV 26)
17. APPROXIMATE LOCATION OF NEW MARQUEE BOARD. PROVIDE (1) 20AMP DUPLEX OUTLET MOUNTED INSIDE THE MARQUEE BOARD TO SUPPORT THE FIBER OPTIC MEDIA CONVERTOR. (BY DIV 26)
18. (1) (1.25-INCH SCHEDULE 40 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO HE GATE CONTROLLER. CONDUIT SHALL STUB INTO THE GATE CONTROLLER AND INTO THE SIDE OF THE HAND HOLE. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26).

SITE PLAN KEYED NOTES

19. APPROXIMATE LOCATION OF GATE CONTROLLER. REFER TO THE ELECTRICAL DRAWINGS FOR EXACT LOCATION.
20. (2) (1.25-INCH SCHEDULE 40 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO POLE MOUNT CARD READER/VIDEO INTERCOM. THE CONDUIT SHALL STUB INTO THE CARD READER POLE/PEDESTAL AND INTO THE SIDE OF THE HAND HOLE. (1) CONDUITS IS RESERVED FOR SECURITY. (1) CONDUIT IS RESERVED FOR DATA. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26).
21. (2) 4-INCH AND (2) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM MDF TO IDF ROOM. THE (2) 4-INCH CONDUITS SHALL BE RESERVED FOR THE FIBER. (2) 2-INCH SHALL BE RESERVED FOR SECURITY. THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. THE CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
22. (2) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM IDF TO HAND HOLE. THE (1) 2-INCH CONDUIT SHALL BE RESERVED FOR DATA (1) 2-INCH CONDUIT SHALL BE RESERVED FOR SECURITY. THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
23. APPROXIMATE LOCATION OF EXISTING CARD READER PEDESTAL INSTALLED IN PHASE I.
24. 20 AMP DUPLEX POWER OUTLETS MOUNTED INSIDE THE BASE OF THE MARQUEE BOARD TO SUPPORT THE FIBER OPTIC MEDIA CONVERTOR. (BY DIV 26)
25. (2) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE TO HAND HOLD. THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. THE CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)
26. (1) 2-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM HAND HOLE STUBBED INTO THE BASE OF THE MARQUEE BOARD. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26)

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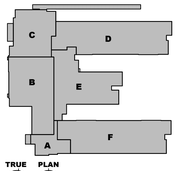

TRUE PLAN NORTH KEYPLAN

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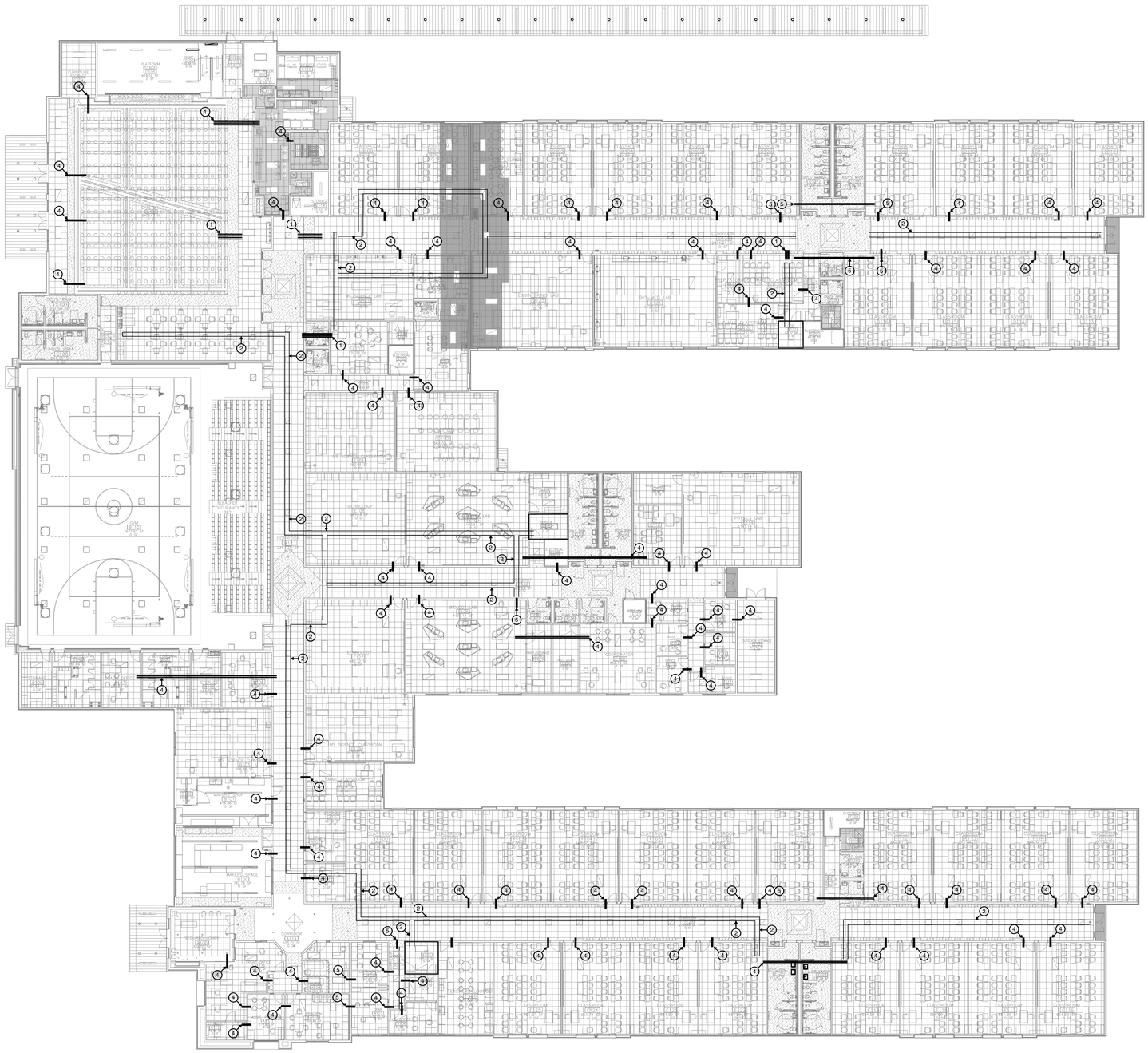
TECHNOLOGY FLOOR PLAN NOTES

T-100



TECHNOLOGY OVERALL FLOOR PLAN NOTES

1. (4)4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY.ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED (BY DIV 26).
2. 18-INCH WIDE X 4-INCH HIGH WIRE BASKET TYPE CABLE TRAY ABOVE ACCESSIBLE CEILING AND SUSPENDED FROM THE STRUCTURE USING A TRAPEZE CONFIGURATION. (BY DIV 26)
3. (1) 2-INCH EMT CONDUIT SLEEVE ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVE SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
4. (2) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
5. (2) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
6. CHASE WITH (4) 4-INCH CONDUITS FROM THE ABOVE CEILING SPACE OF THE 1ST FLOOR TO THE ABOVE CEILING SPACE OF THE 2ND FLOOR. CONDUITS SHALL BE RESERVED FOR LOW VOLTAGE CABLE ONLY. PROVIDE NYLON BUSHING AND PULL STRINGS. (BY DIV 26)

1 / T-101 TECHNOLOGY FLOOR PLAN OVERALL

SCALE: 1/16" = 1'-0"

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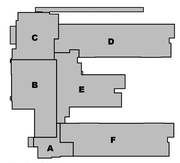

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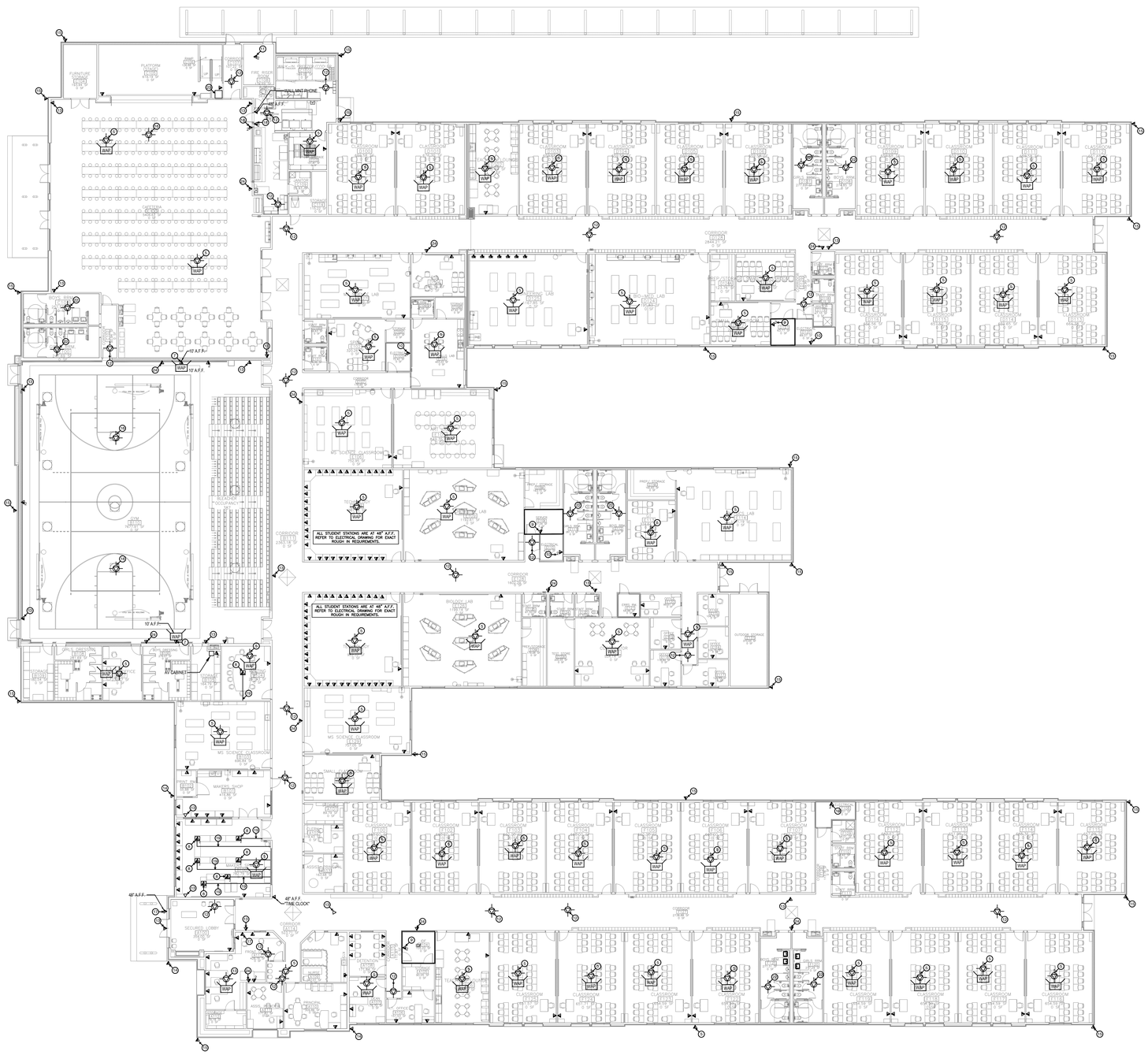
TECHNOLOGY FLOOR PLAN - OVERALL

T-101

PLEASE REFER TO PAGE T100 FOR GENERAL AND KEYED NOTES

TECHNOLOGY OVERALL FLOOR PLAN NOTES

1. (4)4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY.ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED (BY DIV 26).
2. 18-INCH WIDE X 4-INCH HIGH WIRE BASKET TYPE CABLE TRAY ABOVE ACCESSIBLE CEILING AND SUSPENDED FROM THE STRUCTURE USING A TRAPEZE CONFIGURATION. (BY DIV 26)



1 T-102 TECHNOLOGY FLOOR PLAN OVERALL

SCALE: 1/16" = 1'-0"

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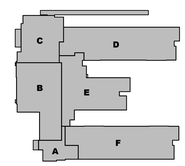


TRUE PLAN KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026
Drawn: RD
Checked: RG

Revisions:

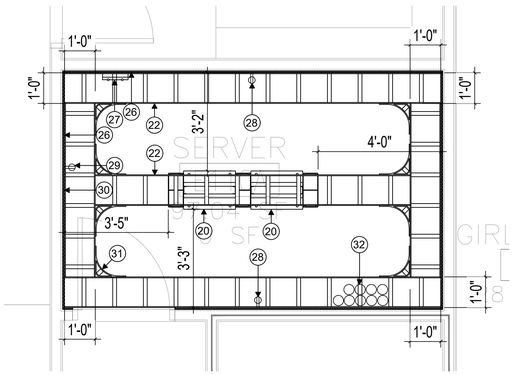
No.	Description	Date
1	PERMIT SET	01/23/2026

Sheet Title:
TECHNOLOGY FLOOR PLAN OVERALL

T-102

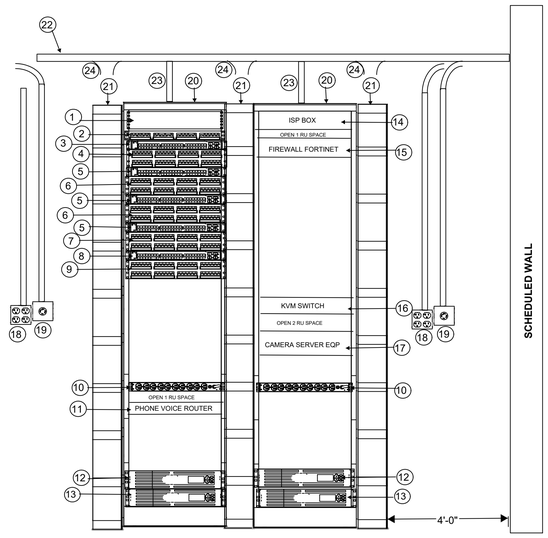
GENERAL NOTE:

PRIOR TO BIDDING AND PURCHASE OF ELECTRONIC DEVICES/SWITCHES.
THE NETWORK CONTRACTOR SHALL CONFIRM THE QUANTITIY OF TECHNOLOGY AND SECURITY DATA CABLES TO ENSURE THE QTY OF PORT COUNTS PER MDF/IDF ROOM ARE ACCOUNTED FOR.



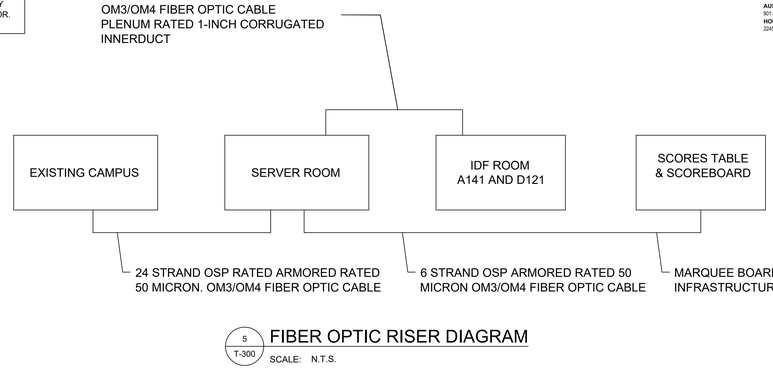
1/T-300 SERVER ROOM E110A RACK ELEVATION

SCALE: 1/2" = 1'-0"



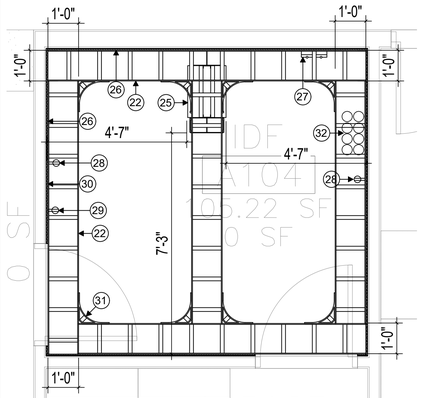
2/T-300 SERVER ROOM E110A RACK ELEVATION

SCALE: 1" = 1'-0"



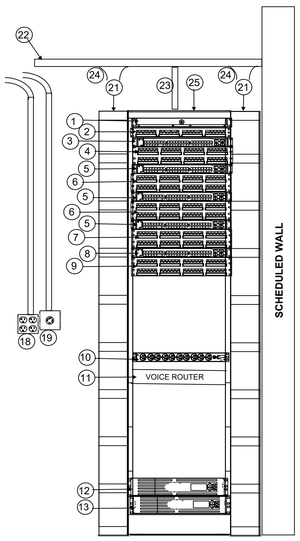
5/T-300 FIBER OPTIC RISER DIAGRAM

SCALE: N.T.S.



3/T-300 IDF ROOM SOUTH LAYOUT

SCALE: 1/2" = 1'-0"



4/T-300 IDF ROOM SOUTH RACK ELEVATION

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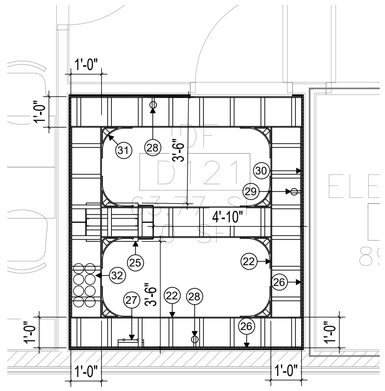

5/T-300 IDF ROOM D121 LAYOUT

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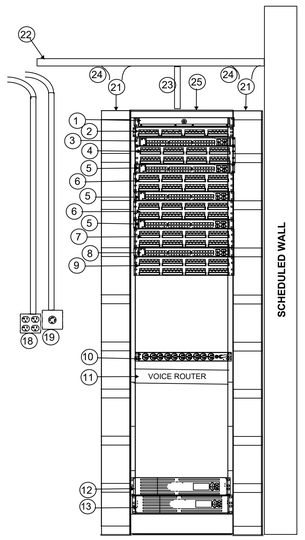

6/T-300 IDF ROOM D121 RACK ELEVATION

SCALE: 1" = 1'-0"

IT ROOM LAYOUT AND RACK ELEVATION NOTES

1. (2) RU FIBER OPTIC PATCH PANEL. (BY DIV 27)
2. 24 PORT PATCH PANEL (WIRELESS) (BY DIV 27).
3. 48 PORT (WIRELESS) SWITCH. (BY DIV 27)
4. 48 PORT PATCH PANEL. TOP ROW APS, BOTTOM ROW DATA. (BY DIV 27)
5. 48 PORT (DATA) SWITCH. (BY DIV 27)
6. 48 PORT PATCH PANEL. (DATA) (BY DIV 27)
7. 48 PORT PATCH PANEL. TOP ROW DATA, BOTTOM ROW LEAVE EMPTY. (BY DIV 27)
8. 48 PORT (CAMERA) SWITCH. (BY DIV 27)
9. 48 PORT PATCH PANEL. (CAMERA) (BY DIV 27)
10. HORIZONTAL PDU. (BY DIV 27)
11. PHONE/VOICE ROUTER. (BY DIV 27)
12. UPS DEVICE. (BY DIV 27)
13. UPS BATTERY BACKUP. (BY DIV 27)
14. ISP BOX. (BY SERVICE PROVIDER)
15. FIREWALL FORTINET. (BY DIV 27)
16. KVM (BY DIV 28)
17. CAMERA SERVER EQUIPMENT (BY DIV 28)
18. DEDICATED 20 AMP QUAD CIRCUIT NEMA 5-20R RECEPTACLE MOUNTED TO RACK HALFWAY DOWN THE OUTSIDE VERTICAL WIRE MANAGER OF EACH THE RECEPTICALS SHALL FACE THE BACK OF THE RACKS. (BY DIV 26)
19. DEDICATED 30 AMP CIRCUIT WITH NEMA L6-30R TWIST LOCK MOUNTED TO RACK HALFWAY DOWN THE OUTSIDE VERTICAL WIRE MANAGER OF EACH THE RECEPTICALS SHALL FACE THE BACK OF THE RACKS. (BY DIV 26)
20. (42 RU) 4-POST FLOOR MOUNTED EQUIPMENT RACK. (BY DIV 27)
21. DOUBLE SIDED VERTICAL WIRE MANAGER 8-INCH WIDE. (BY DIV 27)
22. LADDER RACK AS SPECIFIED. (BY DIV 27)
23. RACK STAND OFF BRACKET AS SPECIFIED. (BY DIV 27)
24. RADIUS DROP AS SPECIFIED. (BY DIV 27)
25. (42 RU) 2-POST FLOOR MOUNTED EQUIPMENT RACK. (BY DIV 27)
26. TYPICAL ALL WALLS 4-FEET X 8-FEET X ¾-INCH A-B GRADE, VOID FREE, FIRE RATED PLYWOOD INSTALLED VERTICALLY STARTING AT 24-INCHES ABOVE FINISHED FLOOR ON ALL PERIMETER WALLS. PAINT WITH (2) COATS OF FIRE-RETARDANT (BY DIV. 26)
27. GROUND BUS BAR MOUNTED AT 84-INCHES ABOVE FINISHED FLOOR. (BY DIV. 27)
28. 20 AMP CIRCUIT WITH DUPLEX NEMA 5-20R RECEPTACLE FLUSH MOUNTED TO THE FINISHED WALL SURFACE AT 18-INCHES ABOVE FINISHED FLOOR. MAXIMUM OF (6)PER CIRCUIT. (BY DIV.26)
29. DEDICATED 20 AMP CIRCUIT HARDWIRED TO ACCESS CONTROL SECURITY PANEL. (BY DIV. 26)
30. 48-INCHES WIDE X 84-INCHES HIGH RESERVED FOR ACCESS CONTROL SYSTEM. (BY DIV. 27 / 28)
31. TYPICAL LADDER RACK CORNER BRACKET. (BY DIV 27)
32. CONDUITS FROM OUTSIDE PLANT HAND HOLE. (BY DIV 26)

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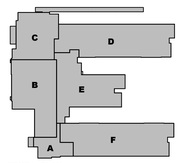

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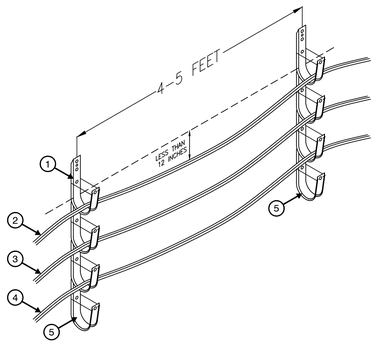
1	PERMIT SET	01/23/2026

Sheet Title:
TECHNOLOGY ENLARGED PLANS

T-300

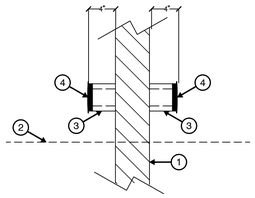


KEYED NOTES:

1. J-HOOK WITH RETAINER CLIP ABOVE ACCESSIBLE CEILING (BY DIV 27).
2. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
3. A/V CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
4. SECURITY CABLE ABOVE ACCESSIBLE CEILING (BY DIV 28).
5. SPARE J-HOOK (BY DIV 27).
6. IF THE NETWORK CABLE COLORS ARE DIFFERENT, THE CONTRACTOR SHALL SEPARATE THE SYSTEMS BY COLOR. DO NOT INTERMIX CABLE COLORS IN THE SAME J-HOOK. (BY DIV 27)

1 T-400 TYPICAL J-HOOK CABLE PATHWAY

SCALE: N.T.S.

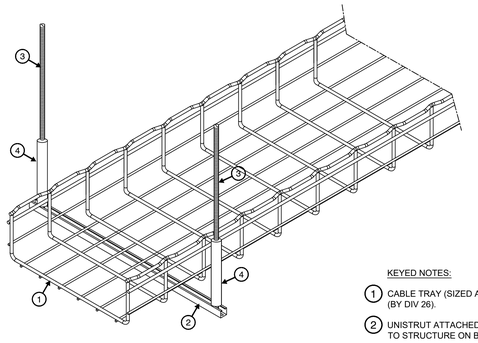


KEYED NOTES:

1. SCHEDULED WALL.
2. SCHEDULED CEILING.
3. CONDUIT SLEEVE (BY DIV 26).
4. NYLON BUSHING (BY DIV 26).

2 T-400 TYPICAL CONDUIT SLEEVE GOING THROUGH WALL

SCALE: N.T.S.

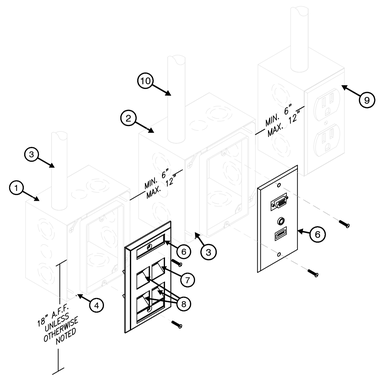


KEYED NOTES:

1. CABLE TRAY (SIZED AS INDICATED ON DRAWINGS) (BY DIV 26).
2. UNISTRUT ATTACHED TO CABLE TRAY AND SECURED TO STRUCTURE ON BOTH ENDS (BY DIV 26).
3. ALL THREAD TO BUILDING STRUCTURE (BY DIV 26).
4. THREADED ROD PROTECTOR (BY DIV 26).

3 T-400 TYPICAL ABOVE CEILING CABLE TRAY DETAIL

SCALE: N.T.S.

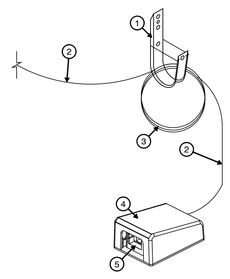


KEYED NOTES:

1. 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 6 13/16-INCH x 4 1/2-INCH x 2 1/2-INCH RECESSED TRIPLE GANG BOX (BY DIV 26).
3. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
4. SINGLE GANG PLASTER RING (BY DIV 26).
5. TRIPLE GANG PLASTER RING (BY DIV 26).
6. SINGLE GANG WALL PLATE (BY DIV 27).
7. RJ-45 INSERT (BY DIV 27).
8. BLANK INSERT (BY DIV 27).
9. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26)
10. 1 1/4-INCH EMT CONDUIT FROM TRIPLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF THE MAIN CORRIDOR.

4 T-400 TYPICAL TEACHER STATION CONFIGURATION

SCALE: N.T.S.



KEYED NOTES:

1. J-HOOK WITH RETAINER CLIP ABOVE ACCESSIBLE CEILING (BY DIV 27).
2. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
3. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
4. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BUILDING STRUCTURE (BY DIV 27).
5. DATA INSERT (BY DIV 27).

5 T-400 TYPICAL ABOVE CEILING SINGLE DATA OUTLET

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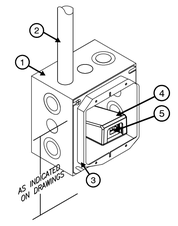
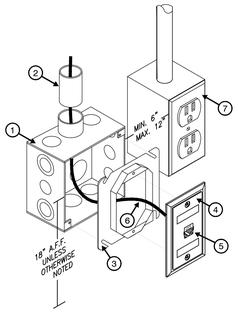


KEYED NOTES:

1. 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. DOUBLE GANG PLASTER RING (BY DIV 26).
4. SURFACE MOUNT BOX INSIDE THE 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH DOUBLE GANG BOX (BY DIV 27).
5. RJ-45 INSERT (BY DIV 27).

6 T-400 TYPICAL WALL-MOUNTED WIRELESS ACCESS POINT

SCALE: N.T.S.



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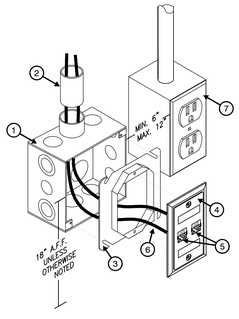
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. CABLE AS SPECIFIED (BY DIV 27).
7. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

7 T-400 TYPICAL SINGLE DATA OUTLET CONFIGURATION

SCALE: N.T.S.



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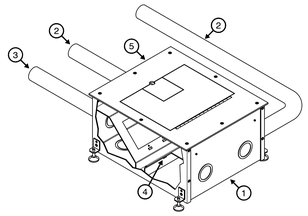
8 T-400 TYPICAL DUAL DATA OUTLET CONFIGURATION

SCALE: N.T.S.



KEYED NOTES:

1. FSR FL-500P-4-B IN-SLAB 4" DEEP FLOOR BOX. CONFIGURE BOX DIVIDER TO SEPARATE HIGH VOLTAGE AND LOW VOLTAGE. USE FSR FL-GRD4 AS REQUIRED FOR ON GRADE APPLICATIONS. INSTALL TEMPORARY COVER BASED ON FLOOR FINISH INSTALLATION TYPE, SHIM AS REQUIRED, REFER TO MANUFACTURER INSTRUCTIONS. SUPPLIED BY DIVISION 27 AND INSTALLED BY DIVISION 26. CONTRACTOR TO COORDINATE FLOOR BOX COVER COLOR, TYPE AMD TYPE OF FLOOR (VCT/CARPET) WITH ARCHITECT PRIOR TO PURCHASE.
2. 1-1/4" INCH EMT CONDUIT WITH 200LB PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED UNLESS OTHERWISE NOTED. (BY DIVISION 26).
3. ELECTRICAL POWER PROVIDED AND INSTALLED BY DIVISION 26. PROVIDE DUPLEX ELECTRICAL OUTLET AND COVER PLATE. FINISH COLOR WHITE UNLESS OTHERWISE SPECIFIED WITH THE ARCHITECT. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR POWER REQUIREMENTS.
4. MULTIMEDIA PLATES, REFER TO FACEPLATE DETAIL DRAWINGS. PROVIDE MOUNTING HARDWARE AS REQUIRED. REFER TO DRAWINGS, SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIVISION 27).
5. FSR COVER PLATE FL-500P-BLK-C FOR VCT AND FL-500P-BLP-C FOR CARPET UNLESS OTHERWISE SPECIFIED. COORDINATE FINISH WITH ARCHITECT. (BY DIVISION 27)

9 T-400 TYPICAL IN-SLAB MULTIMEDIA FLOOR BOX DETAIL

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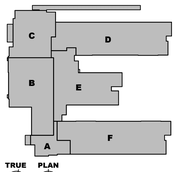
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



TRUE NORTH PLAN NORTH KEYPLAN

Project Number:	24.23
Drawing Date:	06/29/2026
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Checked:	RG

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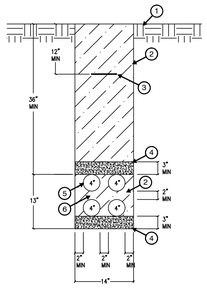
Sheet Title:
TECHNOLOGY TYPICAL DETAILS

T-400



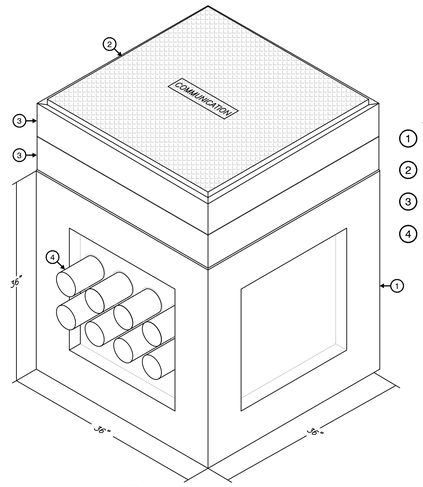
KEYED NOTES:

1. FINISHED GRADE (BY DIV 26).
2. SELECT COMPACTED BACKFILL (BY DIV 26).
3. DETECTABLE WARNING TAPE (BY DIV 26).
4. COMPACTED SAND (BY DIV 26).
5. COMMUNICATIONS CONDUIT (BY DIV 26).
6. DUCT SPACERS (TYPICAL BETWEEN ALL CONDUITS) (BY DIV 26).

TYPICAL COMMUNICATIONS DUCT BANK DETAIL - (4) 4-INCH CONDUITS

1 / T-401

SCALE: N.T.S.



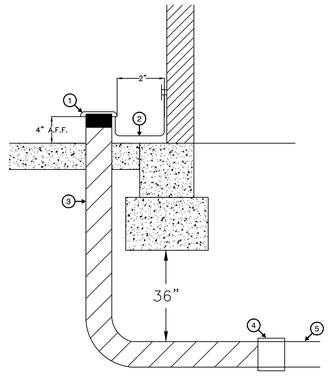
KEYED NOTES:

1. 24-INCH X 24-INCH X 24-INCH PRECAST HANDHOLE (BY DIV 26).
2. 24-INCH X 24-INCH COVER RATED FOR ENVIRONMENT WITH "COMMUNICATION" STENCILED ON TOP (BY DIV 26).
3. PRECAST EXTENSION AS REQUIRED TO MOUNT FLUSH WITH GRADE (BY DIV 26).
4. 4-INCH TERMINATOR (BY DIV 26).

TYPICAL TECHNOLOGY HANDHOLE (HH)

2 / T-401

SCALE: N.T.S.



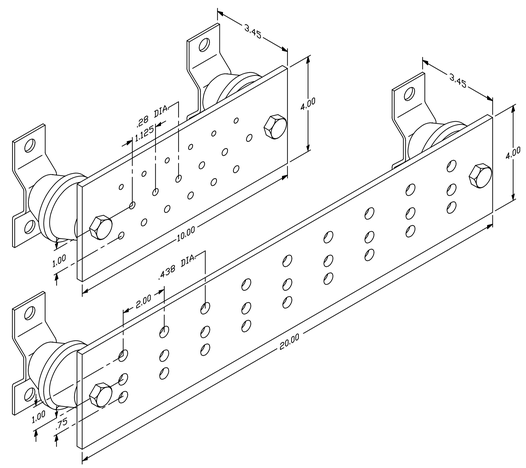
KEYED NOTES:

1. GROUNDING BUSHING (BY DIV 26).
2. #6 GROUND WIRE TO TMGB/TGB (BY DIV 26).
3. 4-INCH RIGID STEEL CONDUIT WRAPPED WITH PASCO PROTECTIVE TAPE SYSTEM (BY DIV 26).
4. PVC FEMALE ADAPTER (BY DIV 26).
5. SCHEDULE 40 PVC (BY DIV 26).

TYPICAL TECHNOLOGY DUCT ENTRY INTO BUILDING

3 / T-401

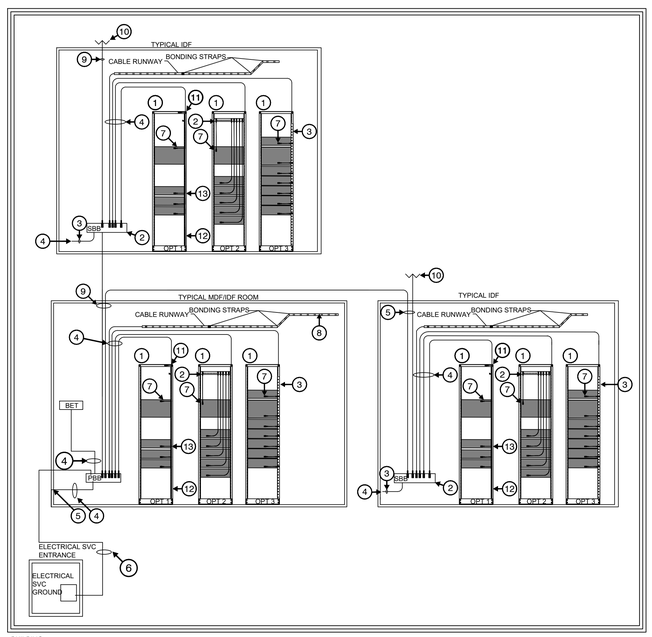
SCALE: N.T.S.



WALL-MOUNTED BUS BAR

4 / T-401

SCALE: N.T.S.



LEGEND:

PBB - PRIMARY BONDING BUSBAR
SBB - SECONDARY BONDING BUSBAR
RBB - RACK BONDING BUSBAR
RBC - RACK BONDING CONDUCTOR
TEBC - TELECOMUNICATIONS EQUIPMENT BONDING CONDUCTOR

1. TELECOMMUNICATIONS RACK AS SPECIFIED. (BY DIV 27)
2. 2 HOLE HORIZONTAL GROUNDING BUS BAR. SBB (BY DIV 27)
3. VERTICAL GROUNDING BUS BAR. RBB (BY DIV 27)
4. TELECOMMUNICATIONS BONDING CONDUCTOR. RBC (BY DIV 27)
5. CONNECT TO GROUNDED BUIDINGS STEEL WHEN EXPOSED IN ROOM. (BY DIV 26)
6. TELECOMMUNICATIONS BONDING CONDUCTOR. TEBC (BY DIV 26)
7. INDIVIDUAL EQUIPMENT BONDING CONDUCTORS FROM EACH PIECE OF EQUIPMENT. (BY DIV 27)
8. TELECOMMUNCATIONS LADDER RACK AS SPECIFIED. (BY DIV 27)
9. TELECOMMUNICATION BONDING BACKBONE. (BY DIV 26)
10. TELECOMMUNICATIONS BONDING BACKBONE TO NEXT IDF ROOM SBB AS REQUIRED. (BY DIV 26)
11. GROUNGING BOLT DIRECTLY CONNECTED TO THE EQUIPMENT RACK FRAME. (BY DIV 27)
12. RACK BONDING CONDUCTOR EXTENDED TO THE BOTTOM OF THE RACK FOR FUTURE GROWTH. (BY DIV 27)
13. IRREVERSABLE CRIMP CONNECTOR. (BY DIV 27)

TYPICAL GROUNDING DIAGRAM

5 / T-401

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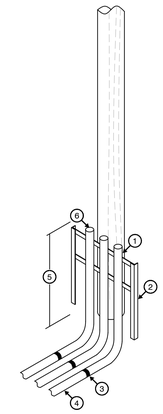

KEYED NOTES:

1. 4-INCH RIGID STEEL CONDUIT WRAPPED WITH PASCO PROTECTIVE TAPE SYSTEM (BY DIV 26).
2. UNISTRUT RACKING CONSTRUCTED IN FIELD (BY DIV 26).
3. PVC FEMALE ADAPTER (BY DIV 26).
4. 4-INCH SCHEDULE 40 PVC CONDUIT (BY DIV 26).
5. 4-INCH RIGID STEEL CONDUIT SHALL BE EXTENDED 36 INCHES ABOVE GRADE (BY DIV 26).
6. CONDUITS SHALL BE CAPPED AND SEALED TO PREVENT MOISTURE AND DEBRIS FROM ENTERING CONDUITS (BY DIV 26).

TYPICAL POLE RISER

6 / T-401

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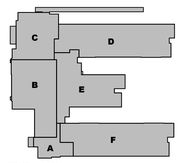

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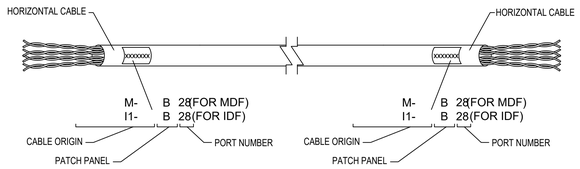
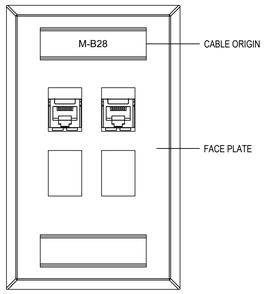
T-401

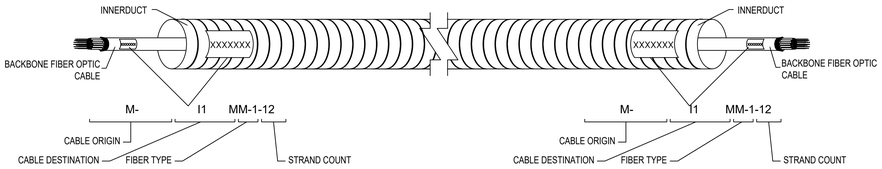


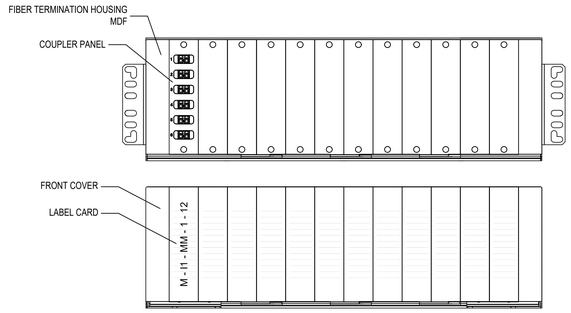


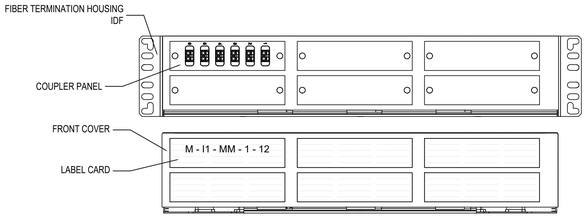


1 T-402 TYPICAL HORIZONTAL DATA CABLE LABELING SCHEME

SCALE: N.T.S.

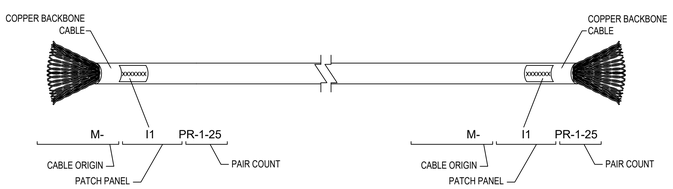


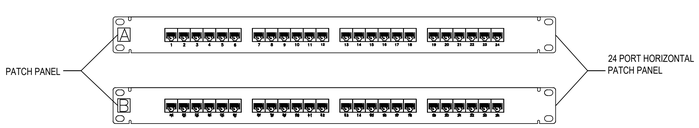




2 T-402 TYPICAL FIBER BACKBONE LABELING SCHEME

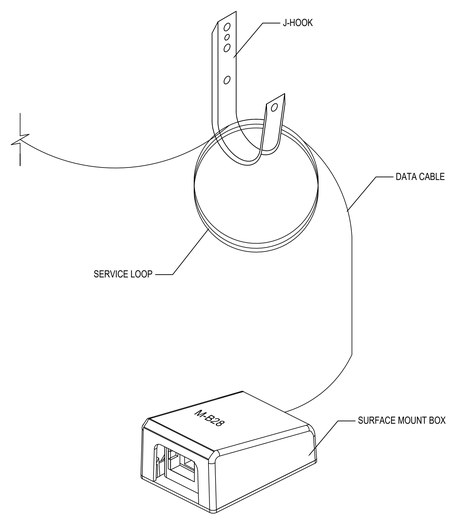
SCALE: N.T.S.





3 T-402 TYPICAL COPPER BACKBONE LABELING SCHEME

SCALE: N.T.S.



4 T-402 ABOVE ACCESSIBLE CEILING LABELING SCHEME

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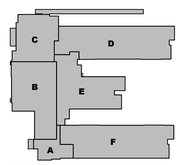

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Sheet Title:
TECHNOLOGY TYPICAL DETAILS

T-402

VOIP NETWORK				
ROOM	ROOM NAME	MANUFACTURE	PRODUCT DESCRIPTION	QUANTITY
TBD	SECURE LOBBY	N/A	N/A	N/A
A101	STORAGE	N/A	N/A	N/A
A102	CLERK	CISCO	CP-8875	1
TBD	OFFICE	CISCO	CP-8875	1
A103	ASST PRINCIPAL	CISCO	CP-8875	1
TBD	NURSE	CISCO	CP-8875	1
TBD	PRIMARY PRINCIPAL OFFICE	CISCO	CP-8875	1
TBD	ASST PRINCIPAL	CISCO	CP-8875	1
TBD	RECEPTIONIST	CISCO	CP-8821-K9	6
TBD	FRONT OFFICE	CISCO	CP-9861 (CONFIRM LOCATION WITH OWNER)	1
TBD	FRONT OFFICE	CISCO	CP-9861 (CONFIRM LOCATION WITH OWNER)	2
TBD	FRONT OFFICE	CISCO	CISCO 840 WEBEX WIRELESS PHONE (CONFIRM LOCATION WITH OWNER)	1
TBD	FRONT OFFICE	CISCO	CP-9871	2
B100	MAKERS SPACE	CISCO	CP-7841	1
B101	MAKERS SHOP	CISCO	CP-7841	1
B103	SCIENCE CLASSROOM	CISCO	CP-7841	1
B104	MEETING ROOM	CISCO	CP-9871	1
B105	STORAGE	N/A	N/A	N/A
B107	OFFICE	CISCO	CP-8875	1
B109	STORAGE	N/A	N/A	N/A
B110	GYM	N/A	N/A	N/A
C103	CAFETERIA	CISCO	CP-8845-K9	1
C104	FURNITURE STORAGE	N/A	N/A	N/A
C105	STAGE	N/A	N/A	N/A
C111	SERVING KIOSK	CISCO	CP-8845-K9 -WMK / WALL MOUNT PHONE	1
C112	KITCHEN OFFICE	CISCO	CP-8845-K9	1
C113	STORAGE	N/A	N/A	N/A
C114	STORAGE	N/A	N/A	N/A
C127	MS SCIENCE LAB	CISCO	CP-7841	1
C127	MS SCIENCE LAB	CISCO	CP-9871	1
D100	CLASSROOM	CISCO	CP-7841	1
D101	CLASSROOM	CISCO	CP-7841	1
D102	CLASSROOM	CISCO	CP-7841	1
D103	CLASSROOM	CISCO	CP-7841	1
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D115	CLASSROOM	CISCO	CP-7841	1
D116	CLASSROOM	CISCO	CP-7841	1
D117	CLASSROOM	CISCO	CP-7841	1
D118A	IDF ROOM	N/A	N/A	N/A
D119	SMALL CLASSROOM	CISCO	CP-7841	1
D120	ELECTRICAL	N/A	N/A	N/A
D122	CLASSROOM	CISCO	CP-7841	1
D123	CLASSROOM	CISCO	CP-7841	1
D124	BIOMED LAB	CISCO	CP-7841	1
D124A	STORAGE	CISCO	CP-7841	1
D125	ENGINEERING	CISCO	CP-7841	1
D126	ESL	CISCO	CP-7841	1
D127	SCIENCE LAB	CISCO	CP-7841	1
E102	SPEECH	CISCO	CP-7841	1
E104	LIFE SKILLS LAB	CISCO	CP-7841	1
E104	STORAGE	N/A	N/A	N/A
E105	ART LAB	CISCO	CP-7841	1
E106	MS SCIENCE CLASSROOM	CISCO	CP-7841	1
E108	ART LAB	CISCO	CP-7841	1
E109	CHEMISTRY LAB	CISCO	CP-7841	1
E109A	STORAGE	N/A	N/A	N/A
E110A	SERVER	N/A	N/A	N/A
E113	GT	CISCO	CP-9871	1
E114	PHYSICS LAB	CISCO	CP-9871	1
E115	OFFICE	CISCO	CP-9871	1
E116	OFFICE	CISCO	CP-9871	1
E117	OFFICE	CISCO	CP-9871	1
E118	OFFICE	CISCO	CP-9871	1
E119	OFFICE	CISCO	CP-9871	1
E120	OFFICE	CISCO	CP-9871	1
E121	ERRS ROOM	N/A	N/A	N/A
E122A	TEST STORAGE	N/A	N/A	N/A
E126	BIOLOGY LAB	CISCO	CP-7841	1
E126A	PREP STORAGE	N/A	N/A	N/A
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E122	COORDINATOR	CISCO	CP-9871	2
E126	BIOLOGY LAB	CISCO	CP-7841	1
E127	TECHNOLOGY	CISCO	CP-7841	1
E130	SMALL CLASSROOM	CISCO	CP-7841	1
E WING	E WING OFFICE CORRIDOR	N/A	N/A	N/A
F100	CLASSROOM	CISCO	CP-7841	1
F102	CLASSROOM	CISCO	CP-7841	1
F103	CLASSROOM	CISCO	CP-7841	1
F104	CLASSROOM	CISCO	CP-7841	1
F105	CLASSROOM	CISCO	CP-7841	1
F106	CLASSROOM	CISCO	CP-7841	1
F107	CLASSROOM	CISCO	CP-7841	1
F112	CLASSROOM	CISCO	CP-7841	1
F107	CLASSROOM	CISCO	CP-7841	1
F112	CLASSROOM	CISCO	CP-7841	1
F113	CLASSROOM	CISCO	CP-7841	1
F114	CLASSROOM	CISCO	CP-7841	1
F115	CLASSROOM	CISCO	CP-7841	1
F116	CLASSROOM	CISCO	CP-7841	1
F117	CLASSROOM	CISCO	CP-7841	1
F118	CLASSROOM	CISCO	CP-7841	1
F119	CLASSROOM	CISCO	CP-7841	1
F120	TEACHERS LOUNGE	CISCO	CP-7841	1
F121	CLASSROOM	CISCO	CP-7841	1
F122	CLASSROOM	CISCO	CP-7841	1
F123	CLASSROOM	CISCO	CP-7841	1
F124	CLASSROOM	CISCO	CP-7841	1
F125	CLASSROOM	CISCO	CP-7841	1
F126	TEACHERS LOUNGE	CISCO	CP-7841	1
F WING IDF	IDF ROOM	N/A	N/A	N/A
SPARE DEVICES	N/A	CISCO	CP-8845-K9	5
SPARE DEVICES	N/A	CISCO	CP-9851-K9	5
SPARE DEVICES	N/A	CISCO	CP-8845-K9	2
SPARE DEVICES	N/A	CISCO	CP-7841	5
SPARE DEVICES	N/A	CISCO	CP-8821	2
SPARE DEVICES	N/A	CISCO	CP-8861	2

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VOIP/VOICE EQUIPMENT SCHEDULE

SCALE: N.T.S.

WIRELESS NETWORK				
ROOM	ROOM NAME	MANUFACTURE	PRODUCT DESCRIPTION	QUANTITY
TBD	SECURE LOBBY	N/A	N/A	N/A
A101	STORAGE	N/A	N/A	N/A
A102	CLERK	N/A	N/A	N/A
TBD	OFFICE	MERAKI	CW9162I-MR	1
A103	ASST PRINCIPAL	N/A	N/A	N/A
A107	DEAN	MERAKI	CW9162I-MR	1
A113	FRONT OFFICE	MERAKI	CW9162I-MR	1
TBD	NURSE	N/A	N/A	N/A
TBD	PRINCIPAL OFFICE	N/A	N/A	N/A
TBD	ASST PRINCIPAL	N/A	N/A	N/A
TBD	RECEPTIONIST	MERAKI	CW9162I-MR	1
B100	MAKERS SPACE	MERAKI	CW9162I-MR	1
B101	MAKERS SHOP	N/A	N/A	N/A
B103	SCIENCE CLASSROOM	MERAKI	CW9162I-MR	1
B104	MEETING ROOM	MERAKI	CW9162I-MR	1
B105	STORAGE	N/A	N/A	N/A
B107	COACH OFFICE	MERAKI	CW9162I-MR	1
B109	STORAGE	N/A	N/A	N/A
B110	GYM	MERAKI	CW9162 / WITH CAGE	2
C103	CAFETERIA	MERAKI	CW9162	2
C104	FURNITURE STORAGE	N/A	N/A	N/A
C105	STAGE	N/A	N/A	N/A
C109	JANITORS OFFICE	MERAKI	CW9162I-MR	1
C111	SERVING KIOSK	N/A	N/A	N/A
C112	KITCHEN OFFICE	MERAKI	CW9162I-MR	1
C113	STORAGE	N/A	N/A	N/A
C114	STORAGE	N/A	N/A	N/A
C127	MS SCIENCE LAB	MERAKI	CW9162I-MR	1
D100	CLASSROOM	MERAKI	CW9162I-MR	1
D101	CLASSROOM	MERAKI	CW9162I-MR	1
D102	CLASSROOM	MERAKI	CW9162I-MR	1
D103	CLASSROOM	MERAKI	CW9162I-MR	1
D104	CLASSROOM	MERAKI	CW9162I-MR	1
D105	CLASSROOM	MERAKI	CW9162I-MR	1
D106	CLASSROOM	MERAKI	CW9162I-MR	1
D107	CLASSROOM	MERAKI	CW9162I-MR	1
D108	CLASSROOM	MERAKI	CW9162I-MR	1
D109	CLASSROOM	MERAKI	CW9162I-MR	1
D110	CLASSROOM	MERAKI	CW9162I-MR	1
D111	CLASSROOM	MERAKI	CW9162I-MR	1
D112	CLASSROOM	MERAKI	CW9162I-MR	1
D113	CLASSROOM	MERAKI	CW9162I-MR	1
D114	CLASSROOM	MERAKI	CW9162I-MR	1
D115	CLASSROOM	MERAKI	CW9162I-MR	1
D116	CLASSROOM	MERAKI	CW9162I-MR	1
D117	CLASSROOM	MERAKI	CW9162I-MR	1
D118A	IDF ROOM	N/A	N/A	N/A
D119	SMALL CLASSROOM	MERAKI	CW9162I-MR	1
D120	N/A	N/A	N/A	N/A
D122	CLASSROOM	MERAKI	CW9162I-MR	1
D123	CLASSROOM	MERAKI	CW9162I-MR	1
D124	BIOMED LAB	MERAKI	CW9162I-MR	1
D124A	STORAGE	N/A	N/A	N/A
D125	ENGINEERING	MERAKI	CW9162I-MR	1
D126	ESL	N/A	N/A	N/A
D127	SCIENCE LAB	MERAKI	CW9162I-MR	1
E102	SPEECH	MERAKI	CW9162I-MR	1
E104	LIFE SKILLS LAB	MERAKI	CW9162I-MR	1
E104	STORAGE	N/A	N/A	N/A
E105	ART LAB	MERAKI	CW9162I-MR	1
E106	MS SCIENCE CLASSROOM	MERAKI	CW9162I-MR	1
E108	ART LAB	MERAKI	CW9162I-MR	1
E109	CHEMISTRY LAB	MERAKI	CW9162I-MR	1
E109A	STORAGE	N/A	N/A	N/A
E110A	SERVER	N/A	N/A	N/A
E113	GT	MERAKI	CW9162I-MR	1
E114	PHYSICS LAB	MERAKI	CW9162I-MR	1
E115	OFFICE	N/A	N/A	N/A
E116	OFFICE	N/A	N/A	N/A
E117	OFFICE	N/A	N/A	N/A
E118	OFFICE	N/A	N/A	N/A
E119	OFFICE	N/A	N/A	N/A
E120	OFFICE	N/A	N/A	N/A
E121	ERRS ROOM	N/A	N/A	N/A
E122A	TEST STORAGE	N/A	N/A	N/A
E126	BIOLOGY LAB	MERAKI	CW9162I-MR	1
E126A	PREP STORAGE	N/A	N/A	N/A
E127	TECHNOLOGY	MERAKI	CW9162I-MR	1
E129	MS SCIENCE CLASSROOM	MERAKI	CW9162I-MR	1
E130	CLASSROOM	MERAKI	CW9162I-MR	1
E114	PHYSICS LAB	MERAKI	CW9162I-MR	1
E122	COORDINATOR	MERAKI	CW9162I-MR	1
E126	BIOLOGY LAB	MERAKI	CW9162I-MR	1
E127	TECHNOLOGY	MERAKI	CW9162I-MR	1
E130	SMALL CLASSROOM	MERAKI	CW9162I-MR	1
E WING	E WING OFFICE CORRIDOR	MERAKI	CW9162I-MR	1
F100	CLASSROOM	MERAKI	CW9162I-MR	1
F102	CLASSROOM	MERAKI	CW9162I-MR	1
F103	CLASSROOM	MERAKI	CW9162I-MR	1
F104	CLASSROOM	MERAKI	CW9162I-MR	1
F105	CLASSROOM	MERAKI	CW9162I-MR	1
F106	CLASSROOM	MERAKI	CW9162I-MR	1
F107	CLASSROOM	MERAKI	CW9162I-MR	1
F112	CLASSROOM	MERAKI	CW9162I-MR	1
F107	CLASSROOM	MERAKI	CW9162I-MR	1
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F113	CLASSROOM	MERAKI	CW9162I-MR	1
F114	CLASSROOM	MERAKI	CW9162I-MR	1
F115	CLASSROOM	MERAKI	CW9162I-MR	1
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F120	TEACHERS LOUNGE	MERAKI	CW9162I-MR	1
F121	CLASSROOM	MERAKI	CW9162I-MR	1
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F123	CLASSROOM	MERAKI	CW9162I-MR	1
F124	CLASSROOM	MERAKI	CW9162I-MR	1
F125	CLASSROOM	MERAKI	CW9162I-MR	1
F126	TEACHERS LOUNGE	MERAKI	CW9162I-MR	1
F WING IDF	IDF ROOM	N/A	N/A	N/A
SPARE DEVICES	N/A	MERAKI	CW9162 TURNED INTO OWNERS IT DEPT	5
SPARE DEVICES	N/A	MERAKI	CW9162I-MR TURNED INTO OWNERS IT DEPT	5

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WIRELESS EQUIPMENT SCHEDULE

SCALE: N.T.S.

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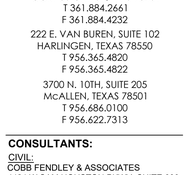
Bicsi
Jason Gonzalez Jr
BICSI ID # 384970
EXPIRES 12-31-26
Jason Gonzalez
RCDD

06/29/2026

HARMONY PUBLIC SCHOOLS

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS VILLAGE PKWY, SPRING , TEXAS 77379



TRUE PLAN NORTH
KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026

Drawn: RD
Checked: RG

Revisions:

No.	Description	Date
1	PERMIT SET	01/23/2026

Sheet Title:

TECHNOLOGY TYPICAL DETAILS

T-403

AUDIOVISUAL SYMBOLS & LEGEND

AUDIOVISUAL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE	BACK BOX	CONDUIT SIZE
ACP	AUDIOVISUAL CONTROL PROCESSOR	RACK, AV WALL BOX, WALL MOUNTED	N/A	1" CONDUIT TO ACCESSIBLE CEILING
AMP	SPEAKER AMPLIFIER	RACK, AV WALL BOX, WALL MOUNTED	N/A	N/A
ALS	ASSISTED LISTENING SYSTEM	SURFACE CEILING MOUNTED	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
AT#	CEILING-MOUNTED ANTENNA, # = TYPE AS SPECIFIED	PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
AT#	WALL-MOUNTED ANTENNA, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
AV#	AV DEVICE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
BT	BLUETOOTH RECEIVER	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
CAM	CEILING-MOUNTED AUDIOVISUAL CAMERA	SURFACE CEILING MOUNTED	2-GANG	1.25" CONDUIT TO ACCESSIBLE CEILING
CAM	WALL-MOUNTED AUDIOVISUAL CAMERA	PER DRAWINGS	1-GANG	1.25" CONDUIT TO ACCESSIBLE CEILING
CB	WALL-MOUNTED CALL BUTTON	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
CE	CEILING MOUNTED EQUIPMENT ENCLOSURE	FLUSH CEILING MOUNTED	2-GANG ELECTRICAL 2-GANG DATA 2-GANG AV	1.5" AV CONDUIT TO ACCESSIBLE CEILING
CP#	WALL OR TABLE TOP MOUNTED CONTROL PANEL, # = TYPE AS SPECIFIED	WALL MOUNTED 48" ABOVE FINISHED FLOOR	WILL VARY PER PROJECT OR TYPE	1" CONDUIT TO ACCESSIBLE CEILING
CTV	CATV LOCATION, CABLE TYPE AND TERMINATION AS SPECIFIED	PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
DA	DISTRIBUTION AMPLIFIER	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
DS	DIGITAL SIGNAGE PLAYER	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
DSP	AUDIO DIGITAL SIGNAL PROCESSOR	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
EQ#	EQUIPMENT RACK, # = TYPE AS SPECIFIED	PER DRAWINGS /PER SPECS	N/A	N/A
FB#	FLOOR BOX, # = TYPE AS SPECIFIED	PER DRAWINGS	2-GANG ELECTRICAL 2-GANG DATA 2-GANG AV	1.5" AV CONDUIT TO ACCESSIBLE CEILING
IPE	IP ENCODER	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
IPD	IP DECODER	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
L	LECTERN / PODIUM	FLUSH CEILING MOUNTED	N/A	1" CONDUIT TO ACCESSIBLE CEILING
MC#	CEILING-MOUNTED MICROPHONE, # = TYPE AS SPECIFIED	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
MC#	WALL-MOUNTED OR TABLETOP MOUNTED MICROPHONE, # = TYPE AS SPECIFIED	PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
MCT	MOBILE CART	N/A	N/A	N/A
MM#	CEILING-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
MM#	WALL-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
OS	CEILING-MOUNTED OCCUPANCY SENSOR	SURFACE CEILING MOUNTED	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
OS	WALL-MOUNTED OCCUPANCY SENSOR	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
PS	CEILING-MOUNTED PARTITION SENSOR	SURFACE CEILING MOUNTED	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
P#	PROJECTOR, # = TYPE AS SPECIFIED	PER DRAWINGS	N/A	N/A
R	WALL-MOUNTED ROUGH-IN LOCATION	18" ABOVE FINISHED FLOOR OR PER DRAWINGS	2-GANG OF PER DRAWINGS	1" CONDUIT TO ACCESSIBLE CEILING
RS	ROOM SCHEDULER	48" ABOVE FINISHED FLOOR	3-GANG OR PER MANUFACTURER	1" CONDUIT TO ACCESSIBLE CEILING
RX#	AUDIOVISUAL RECEIVER	PER DRAWINGS	N/A	N/A
S#	CEILING-MOUNTED SPEAKER, # = TYPE AS SPECIFIED	SURFACE CEILING MOUNTED	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
S#	WALL-MOUNTED SPEAKER, # = TYPE AS SPECIFIED	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING

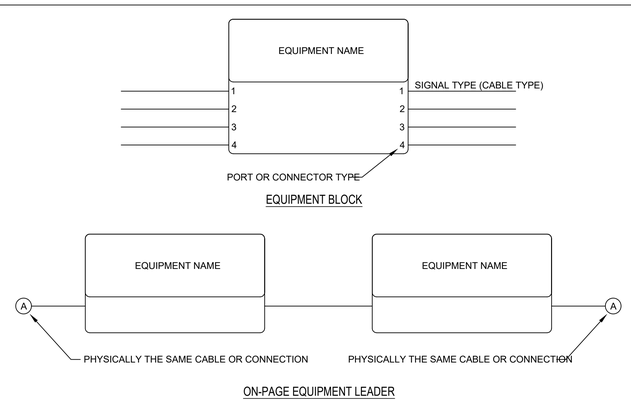
AUDIOVISUAL SYMBOLS - CONTINUED

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE	BACK BOX	CONDUIT SIZE
SB	SOUND BAR.	PER DRAWINGS	N/A	N/A
SBC	INTEGRATED SOUND BAR WITH CAMERA AND MICROPHONE.	PER DRAWINGS	N/A	N/A
TC	TABLETOP CABLE CUBBY.	N/A	N/A	N/A
TX#	AUDIOVISUAL TRANSMITTER.	18" A.F.F. OR PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
VC	WALL-MOUNTED VOLUME CONTROL.	48" A.F.F. OR PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
VCC	VIDEO CONFERENCING COMPUTER.	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
WB#	AUDIOVISUAL WALL BOX, # = TYPE AS SPECIFICED	PER DRAWINGS	2-GANG ELECTRICAL 2-GANG DATA 2-GANG AV	N/A
WP	WIRELESS PRESENTATION.	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
FPD#	FLAT PANEL DISPAY, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
IFP#	INTERACTIVE FLAT PANEL, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
SCR#	PROJECTION SCREEN, # = DISPLAY SIZE	PER DRAWINGS	2 - GANG ELECTRICAL 2 - GANG AV	1" CONDUIT TO ACCESSIBLE CEILING
VW#	VIDEO WALL, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
	DEVICE CONDUIT ABOVE CEILING.	N/A	N/A	N/A
	DEVICE CONDUIT BELOW FLOOR.	N/A	N/A	N/A

GENERAL SYMBOLS

# SHEET DRAWING TITLE SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
1 TA-302	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION.

AUDIOVISUAL SIGNAL FLOW SYMBOLS



ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
BYOD	BRING YOUR OWN DEVICE
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CL	CENTERLINE
CLT	CLOSET
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
HE	PA/INTERCOM HEAD-END
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
OFOI	OWNER FURNISHED/OWNER INSTALLED
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED

NOTES

SYMBOLS & LEGEND SHEET

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF AUDIOVISUAL DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. AUDIOVISUAL DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.
5. IN THE EVENT OF A DISCREPANCY BETWEEN THE AUDIOVISUAL DRAWINGS AND SPECIFICATIONS THE GREATER QUANTITY AND COST SHALL BE UTILIZED.
6. CONFIRM MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7. THE CENTERLINE OF DEVICE INSTALL LOCATIONS ARE FOR REFERENCE AND DESIGN INTENT. CONFIRM WITH ARCHITECT, OWNER, AND FIELD CONDITIONS.
8. ALL DISPLAYS OR WALL MOUNTED DEVICES SHALL BE WITHIN ADA REQUIREMENTS. CONTRACTOR SHALL IDENTIFY ANY NON-COMPLIANT DEVICES AND BRING TO THE ATTENTION OF THE ARCHITECT AND CONSULTANT.

INDEX OF DRAWINGS

TA-000 AUDIO/VISUAL SYMBOLS & LEGEND
TA-100 AUDIO/VISUAL FLOOR PLAN - OVERALL
TA-101 AUDIO/VISUAL ENLARGE FLOOR PLAN
TA-300 AUDIO/VISUAL ENLARGE FLOOR PLAN
TA-301 AUDIO/VISUAL ENLARGE FLOOR PLAN
TA-302 AUDIO/VISUAL ENLARGE FLOOR PLAN
TA-303 AUDIO/VISUAL ENLARGE FLOOR PLAN
TA-500 AUDIO/VISUAL TYPICAL DETAILS
TA-501 AUDIO/VISUAL TYPICAL DETAILS
TA-600 AUDIO/VISUAL DIAGRAMS
TA-601 AUDIO/VISUAL DIAGRAMS

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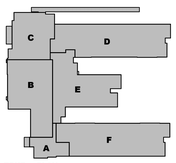
RCDD
06/29/2026

HARMONY PUBLIC SCHOOLS
SCIENCE ACADEMY HS/MS
CITY PLACE
PHASE 2
22000 SPRINGWOODS
VILLAGE PKWY, SPRING ,
TEXAS 77379



Project Number: 24.23
Drawing Date: 06/29/2026
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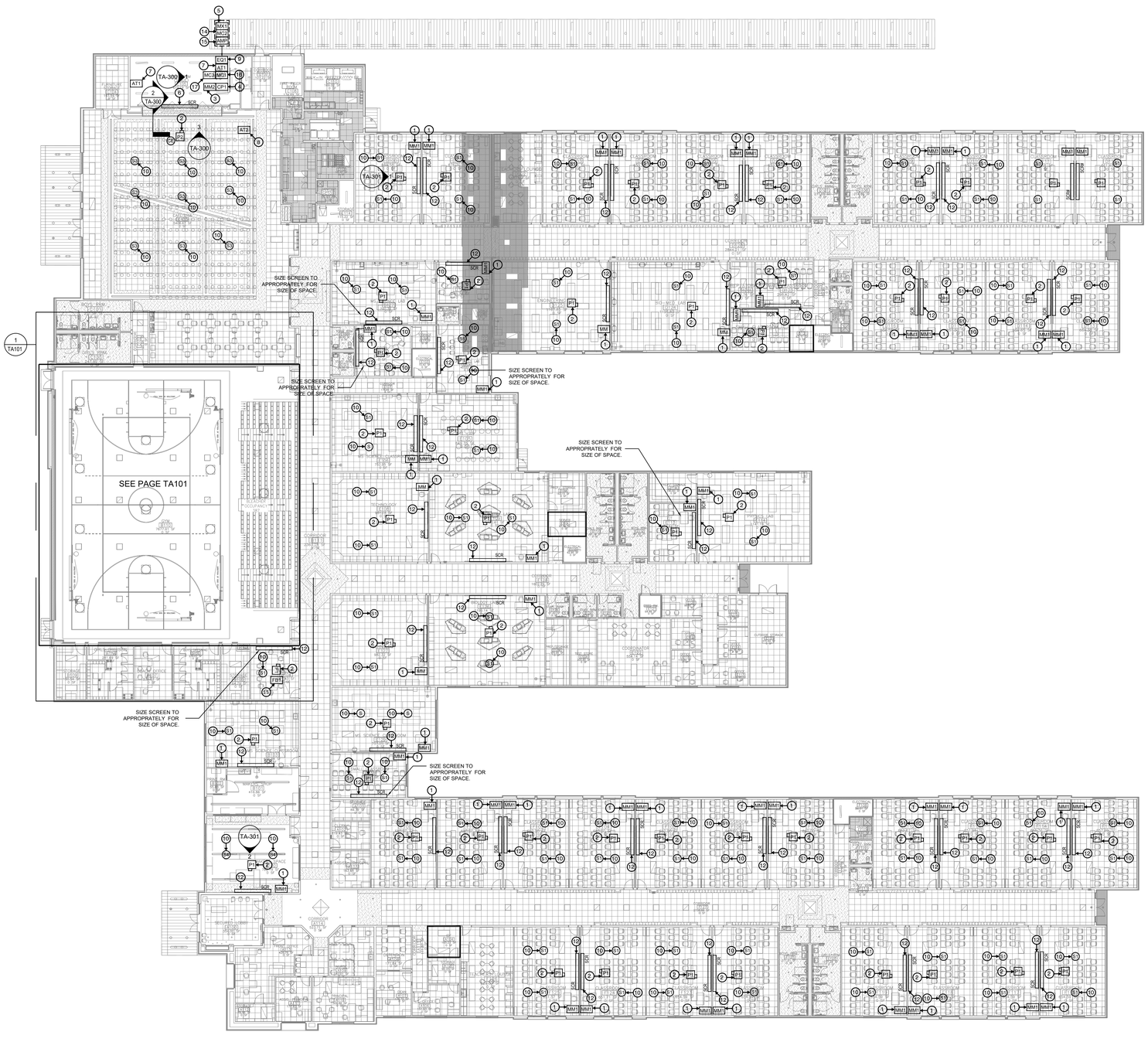
1	PERMIT SET	01/23/2026

Sheet Title:
AUIDO/VISUAL SYMBOLS AND LEGEND

TA-000



GENERAL NOTES

1. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, IN-WALL BOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE AUDIOVISUAL DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 26. AUDIOVISUAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ON AUDIOVISUAL INFRASTRUCTURE REQUIREMENTS.
2. ALL POWER INDICATED ON THE AUDIOVISUAL DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 26. AUDIOVISUAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ON AUDIOVISUAL POWER REQUIREMENTS.
3. AUDIOVISUAL CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR AUDIOVISUAL CABLING BACK TO THE ORIGINAL RATING.
4. AUDIOVISUAL CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR AUDIOVISUAL CABLING TO MITIGATE SOUND TRANSFER THROUGH PENETRATIONS.
5. AUDIOVISUAL SYSTEMS CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. AUDIOVISUAL SYSTEMS CABLING SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC. WITH OTHER SYSTEMS (I.E. COMMUNICATIONS, SECURITY, FIRE ALARM, ETC.)
6. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR AUDIOVISUAL SYSTEMS SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR.
7. CONDUIT PATHWAYS FOR AUDIOVISUAL SYSTEMS SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE CABLE LENGTHS AND ENSURE CABLE DISTANCES DO NOT EXCEED MANUFACTURER RECOMMENDATIONS.
8. UNLESS NOTED OTHERWISE ALL CONDUITS FOR AUDIOVISUAL SYSTEMS SHALL BE HOMERUN FROM THE DEVICE LOCATION TO THE TERMINATION DESTINATION. DAISY CHAINING OF DEVICES / ROUGH-INS IS NOT PERMITTED.
9. CONDUIT SEGMENTS FOR AUDIOVISUAL SYSTEMS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
10. CONDUITS FOR AUDIOVISUAL SYSTEMS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
11. ALL CONDUITS FOR AUDIOVISUAL SYSTEMS SHALL HAVE NYLON BUSHINGS ON EACH END AND A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
14. ALL OVERHEAD RIGGING SHALL BE PROVIDED AND INSTALLED BY A QUALIFIED INSTALLER USING MANUFACTURER RECOMMENDED HARDWARE, DOCUMENTED AND RATED FOR OVERHEAD USE WITH A MINIMUM SAFETY FACTOR OF 5:1.

AUDIO VISUAL SYSTEMS - FLOOR PLAN / RCP COMPOSITE KEYED NOTES

1. WALL MOUNTED MULTIMEDIA INPUT PLATE TYPE 'MM1'. HDMI AND USb INPUTS. MOUNT 18-INCHES A.F.F. TO VERTICAL CENTER. ADJACENT ELECTRICAL POWER REQUIRED. DUAL-GANG BACK BOX AND (2) 1-INCH CONDUIT TO ACCESSIBLE CEILING REQUIRED BY DIV. 26. (1) DATA REQUIRED BY DIV. 27.
2. CEILING MOUNTED PROJECTOR. PROVIDE PROJECTOR, LENSING, AND MOUNTING HARDWARE INCLUSIVE OF AIRCRAFT CABLE SAFETY CABLE AS SPECIFIED AND COLUMN DROP TO REQUIRED LENGTH. ELECTRICAL POWER REQUIRED. AV CONTRACTOR SHALL DETERMINE FINAL LENSING AND INSTALLATION LOCATION PER CEILING PLAN, AND FIELD CONDITIONS. POWER BY DIV. 26 AND DATA BY DIV 27 SHALL INSTALL IN CEILING ENCLOSURE.
3. WALL MOUNTED MULTIMEDIA INPUT PLATE TYPE 'MM2'. MOUNT 18-INCHES A.F.F. TO VERTICAL CENTER. ADJACENT ELECTRICAL POWER REQUIRED. DUAL-GANG BACK BOX AND (2) 1-INCH CONDUIT TO ACCESSIBLE CEILING REQUIRED BY DIV. 26. (1) DATA REQUIRED BY DIV. 27.
4. WALL MOUNTED BUTTON CONTROL PANEL TYPE 'CP1'. MOUNT 48-INCHES TO THE TOP OF THE ELECTRICAL BACK BOX. DUAL-GANG BACK BOX AND (2) 1-INCH CONDUIT TO ACCESSIBLE CEILING REQUIRED BY DIV. 26. (1) DATA REQUIRED BY DIV. 27.
5. RACK MOUNT MIXER. POWER AND DATA REQUIRED.
6. CEILING MOUNTED, MOTORIZED PROJECTION SCREEN. INSTALL TO STRUCTURE. PROVIDE CABLE DROP TO LENGTH FOR OPTIMAL VIEWING. POWER AND DATA REQUIRED. POWER LOCATION, DUAL-GANG BACK BOX AND (1) 1-INCH CONDUIT TO ACCESSIBLE CEILING REQUIRED BY DIV. 26. (1) DATA REQUIRED BY DIV. 27. AV CONTRACTOR SHALL CONFIRM SIZING REQUIREMENT FOR OPTIMAL VIEWING IN THE SPACE.
7. WIRELESS MICROPHONE ANTENNA TYPE 'AT1'. (2) 1-INCH CONDUIT PATHWAY AND DUAL GANG BACK BOX REQUIRED BY DIV. 26. MOUNT 120-INCHES A.F.F. TO VERTICAL CENTER. PROVIDE PROTECTIVE CAGE AS SPECIFIED.
8. WALL MOUNTED ASSISTIVE LISTENING ANTENNA TYPE 'AT2'. MOUNT 120-INCHES A.F.F. TO VERTICAL CENTER. PROVIDE PROTECTIVE CAGE AS SPECIFIED. (2) 1-INCH CONDUIT PATHWAY AND DUAL GANG BACK BOX REQUIRED BY DIV. 26.
9. WALL MOUNTED EQUIPMENT RACK. DATA REQUIRED. ELECTRICAL POWER REQUIRED. (2) 2-INCH, (2) 1-INCH CONDUIT PATHWAY TO ACCESSIBLE CEILING, AND (2) DEDICATED 20A @ 120V QUAD REQUIRED BY DIV. 26. POWER REQUIRED.
10. CEILING SPEAKER AS SPECIFIED. AV CONTRACTOR SHALL DETERMINE FINAL MOUNTING LOCATION PER CEILING PLAN.
11. FLOOR BOX MOUNTED MULTIMEDIA INPUT PLATE TYPE 'MM1'. PROVIDE EQUIPMENT FOR THE MEETING ROOM AS FOR A TYPE 1 CLASSROOM. FLOOR BOX, (1) 20A @ 120V POWER AND (2) 1-INCH CONDITION TO ACCESSIBLE CEILING BY DIV.26. (1) DATA FOR 'MM1' BY DIV. 27 REQUIRED.
12. MANUAL CEILING MOUNTED VIDEO PROJECTION SCREEN FOR CLASSROOMS. AV CONTRACTOR SHALL DETERMINE SIZE PER FIELD CONDITIONS.
13. POINT SOURCE SPEAKER INSTALLED TO STRUCTURE. PROVIDE DOCUMENTED RIGGING HARDWARE FOR OVERHEAD USE, INCLUSIVE OF AIRCRAFT CABLE SAFETY CABLE, AND MANUFACTURER RECOMMENDED COMPONENTS WITH A MINIMUM SAFETY FACTOR OF 5:1. AV CONTRACTOR SHALL DETERMINE FINAL MOUNTING LOCATION SO THAT THE SPEAKER CABINET MOUNTING HEIGHT SHALL NOT IMPEDE GAME PLAY AND SO THAT THE CABINET POSITION AND SPLAY PROVIDE SUFFICIENT COVERAGE ACROSS THE LISTENING FIELD. (1) DUAL GANG BACK BOX AND (2) 1-INCH CONDUIT REQUIRED. PROVIDE AND INSTALL BRUSH GROMMET FACEPLATE FOR SPEAKER CABLING PASS THRU.
14. WIRELESS MICROPHONE SYSTEM. PROVIDE RECEIVERS AND TRANSMITTERS PER SPECIFICATIONS. POWER AND DATA REQUIRED. RECEIVERS SHALL INSTALL IN RACK.
15. LOUDSPEAKER AMPLIFIER. RACK MOUNTED. POWER AND DATA REQUIRED.
16. AUDIO INPUT LOCATION. PROVIDE AND INSTALL WALL PLATE WITH (1) FEMALE XLR CONNECTION. DIV. 26 TO PROVIDE DUAL GANG BACK BOX AND (1) 1-INCH CONDUIT PATHWAY TO ACCESSIBLE CEILING.
17. RCA AND 3.5MM AUDIO INPUT WALL PLATE. PROVIDE FACEPLATE PER SPECIFICATIONS. DIV. 26 TO PROVIDE DUAL GANG BACK BOX AND (1) 1-INCH CONDUIT PATHWAY TO ACCESSIBLE CEILING.

1 TA-100 AUDIO-VISUAL FLOOR PLAN - OVERALL

SCALE: 1/16" = 1'-0"

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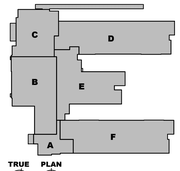

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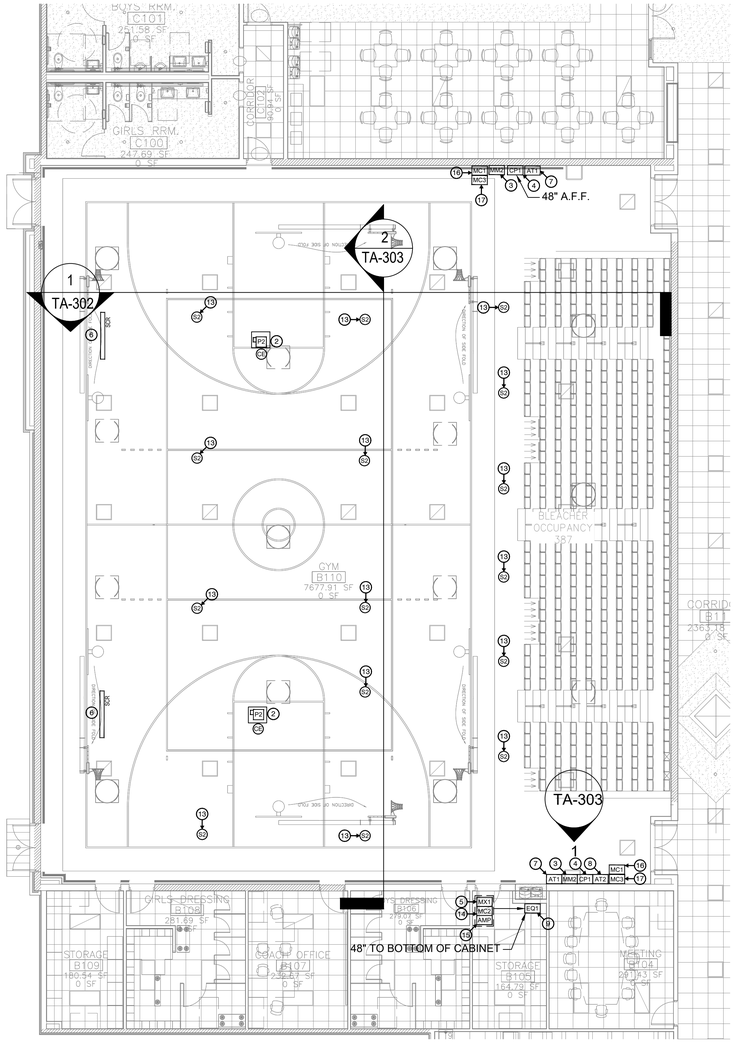
Sheet Title:
AUDIO/VISUAL FLOOR PLAN - OVERALL

TA-100



1 TA-101 AUDIO-VISUAL ENLARGE FLOOR PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

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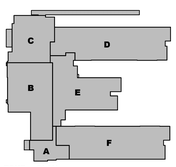

TRUE NORTH PLAN KEYPLAN

Project Number: 24.23
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Revisions:

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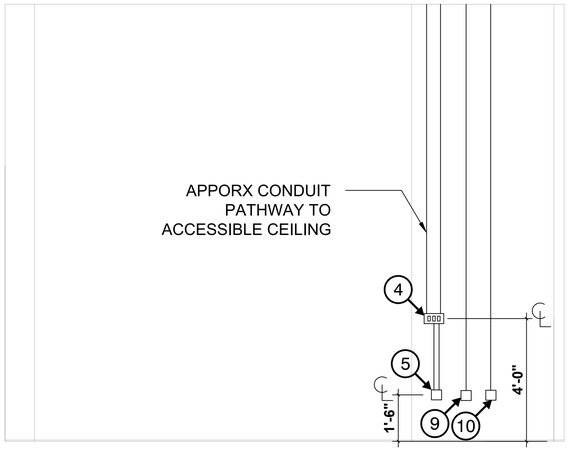
1	PERMIT SET	01/23/2026

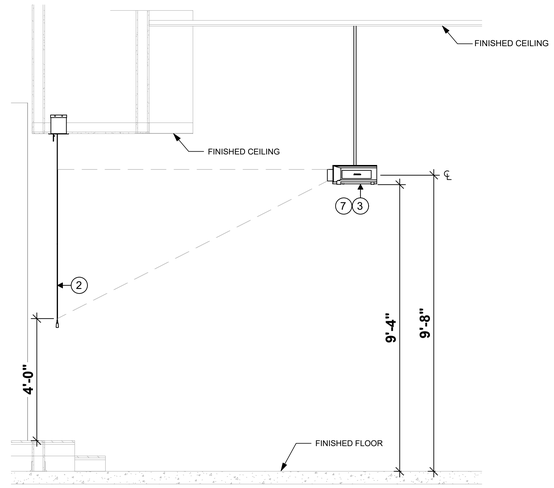
Sheet Title:
AUDIO/VISUAL ENLARGE FLOOR PLAN

TA-101



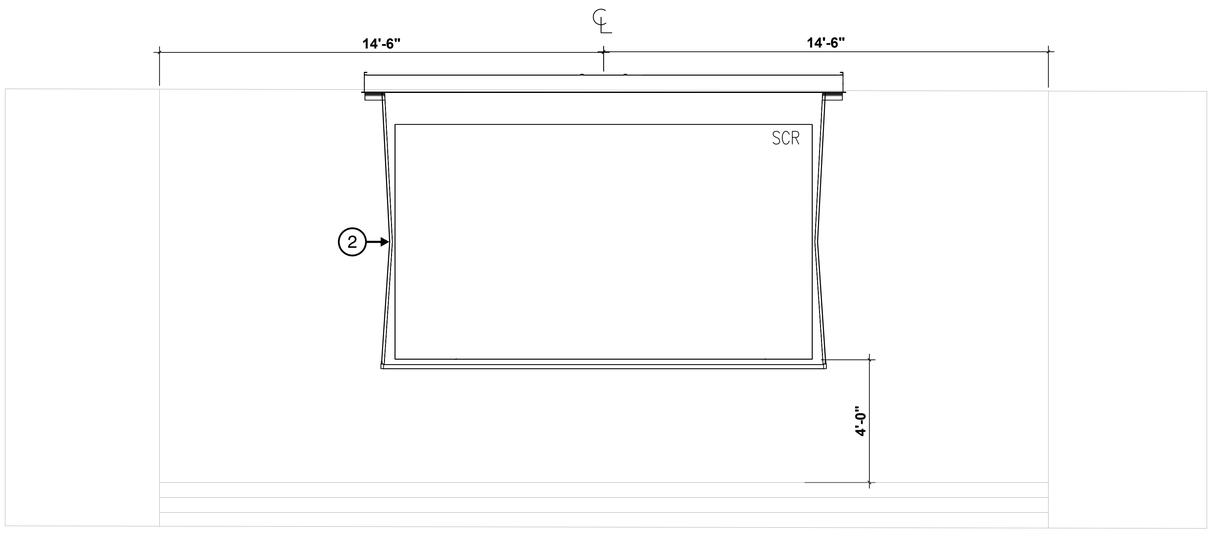
1 / TA-300 STAGE C105 - ELEVATION VIEW

SCALE: 1/2" = 1'-0"



2 / TA-300 CAFETERIA C103 - SECTION VIEW

SCALE: 1/4" = 1'-0"



3 / TA-300 CAFETERIA C103 - ELEVATION VIEW

SCALE: 1/2" = 1'-0"

AUDIO VISUAL SYSTEMS - ENLARGED PLANS / ELEVATIONS GENERAL NOTES

1. ALL DISPLAYS SHALL BE INSTALLED TO MEET ADA DEPTH REQUIREMENTS FROM WALL. CONTRACTOR SHALL NOTIFY ARCHITECT AND CONSULTANT IF ANY DEVICES ARE NON-COMPLIANT WITH ADA REQUIREMENTS.
2. DISPLAY AND AUDIOVISUAL DEVICES INSTALLATION HEIGHTS AND LOCATIONS ARE SHOWN FOR DESIGN INTENT ONLY. CONFIRM FINAL MOUNTING LOCATIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS BEFORE INSTALLATION.
3. COORDINATE CONDUIT, BACK BOXES, FLOOR BOXES, AND POWER REQUIREMENTS WITH ELECTRICAL FOR FINAL INSTALLATION REQUIREMENTS.
4. CENTERLINE AND MOUNTING HEIGHTS FOR REFERENCE ONLY. CONFIRM FINAL MOUNTING LOCATIONS WITH ARCHITECTURAL AND FIELD CONDITIONS BEFORE INSTALLATION.

AUDIO VISUAL SYSTEMS - ENLARGED PLANS / ELEVATIONS KEYED NOTES

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2. MOTORIZED CEILING MOUNTED PROJECTION SCREEN. INSTALL IN ARCHITECTURAL SOFFIT. POWER AND DATA REQUIRED. (1) DUAL GANG BACK BOX AND (1) ¾--INCH CONDUIT PATHWAY BY DIV. 26 REQUIRED.
3. CEILING MOUNTED PROJECTOR ENCLOSURE. AV CONTRACTOR SHALL DETERMINE FINAL MOUNTING LOCATION PER CEILING PLAN AND LENSING REQUIREMENT.
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6. POINT SOURCE LOUDSPEAKER. FLOWN TO STRUCTURE. DUAL GANG BACK BOX AND (2) ¾--INCH CONDUIT PATHWAYS TO ACCESSIBLE CEILING REQUIRED. PROVIDE SPEAKER CABLING AND GROMMET FACEPLATE.
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8. MOTORIZED CEILING MOUNTED PROJECTION SCREEN. INSTALL TO STRUCTURE. POWER AND DATA REQUIRED. (1) DUAL GANG BACK BOX AND (1) ¾--INCH CONDUIT PATHWAY BY DIV. 26 REQUIRED.
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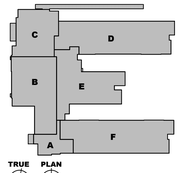

Project Number: 24.23
Drawing Date: 06/29/2026

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Revisions:

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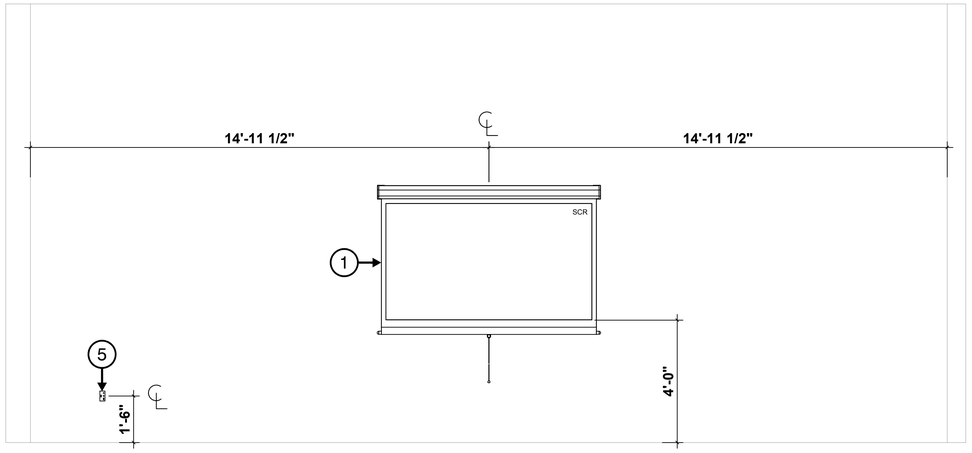
1	PERMIT SET	01/23/2026

Sheet Title:

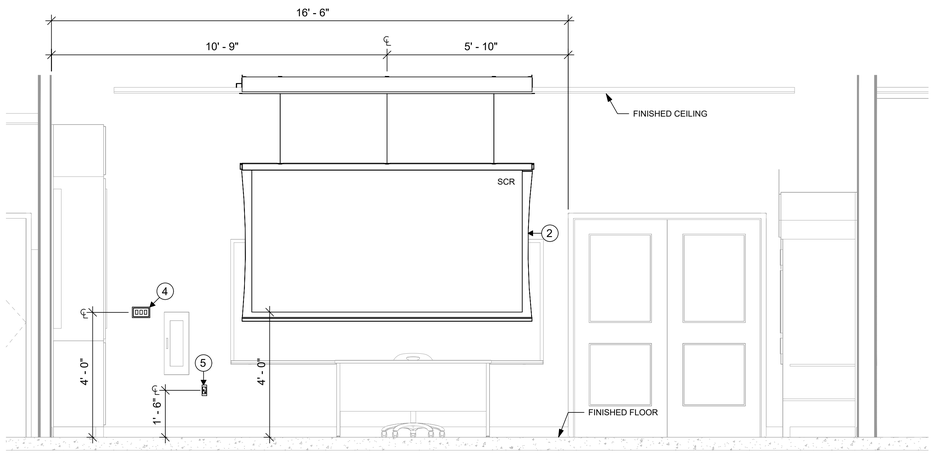
AUDIO/VISUAL ENLARGE FLOOR PLAN

TA-300



1 / TA-301 CLASSROOM D100 - ELEVATION VIEW

SCALE: 1/2" = 1'-0"



2 / TA-301 MAKERS SPACE B100 - ELEVATION VIEW

SCALE: 1/4" = 1'-0"

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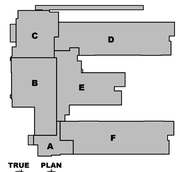

TRUE NORTH PLAN NORTH KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026

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Revisions:

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AUDIO/VISUAL ENLARGE FLOOR PLAN

TA-301

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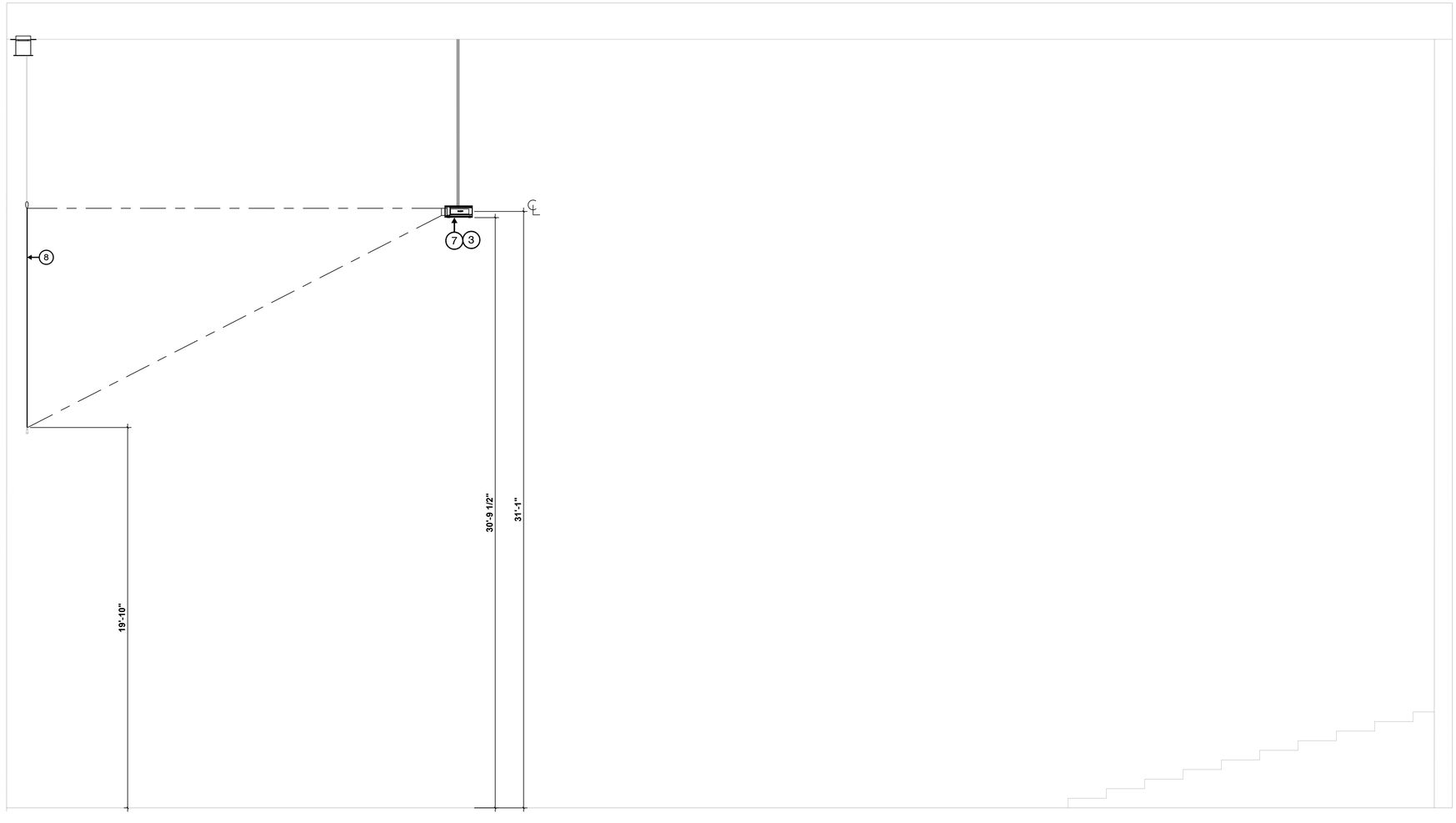

1 TA-302 GYM B110 - SECTION VIEW
SCALE: 3/8" = 1'-0"

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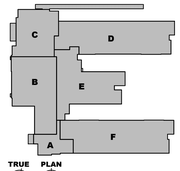

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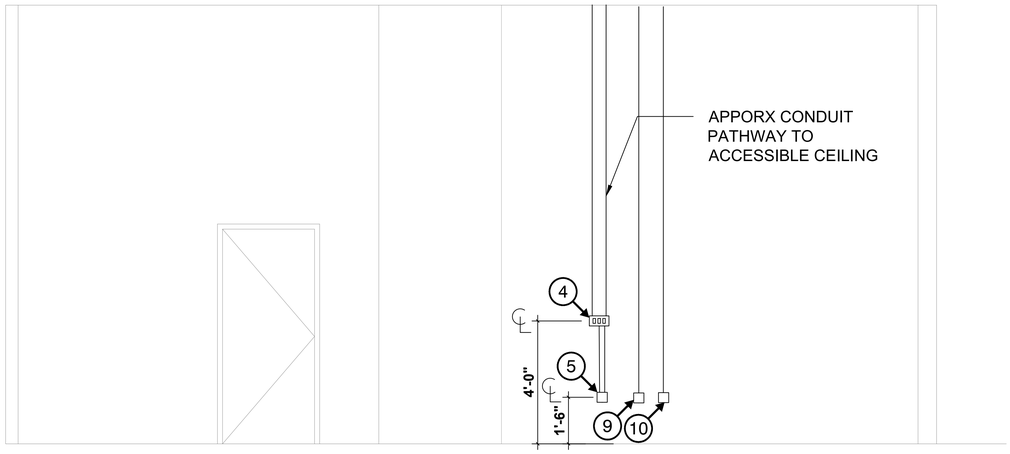
TA-302



1 / TA-303 GYM B110 - ELEVATION VIEW

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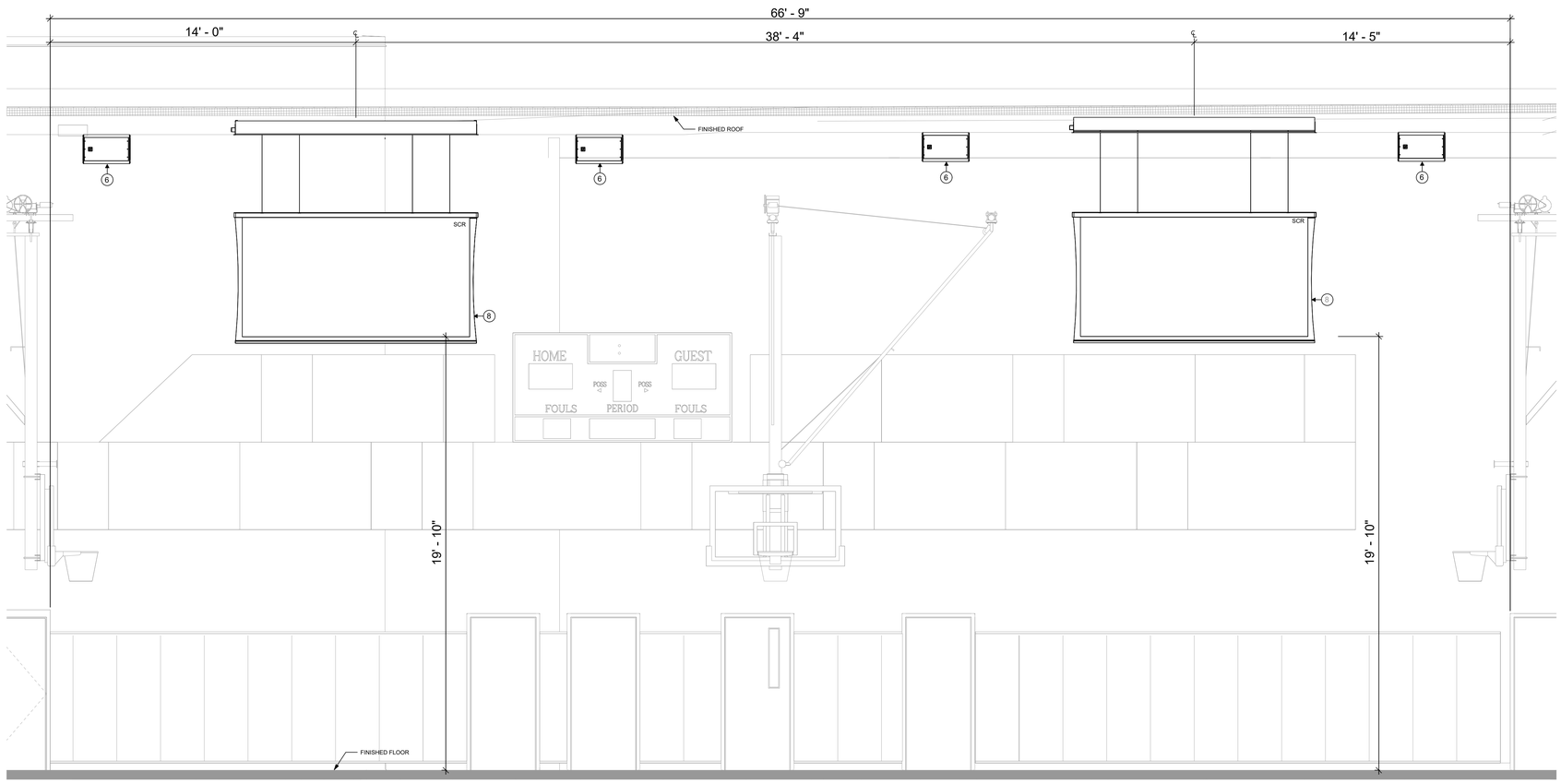

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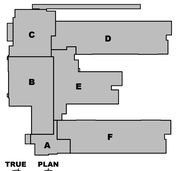


TRUE NORTH PLAN NORTH KEYPLAN

Project Number: 24.23
Drawing Date: 06/29/2026

Drawn: RD
Checked: RG

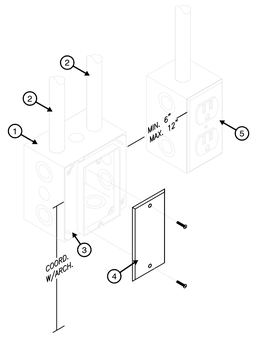
Revisions:

No.	Description	Date
1	PERMIT SET	01/23/2026

Sheet Title:

AUDIO/VISUAL ENLARGE FLOOR PLAN

TA-303

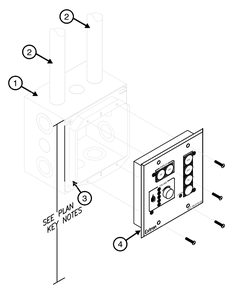


KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH A|V DEVICE(S) (BY DIV 26).
4. BLANK PLATE (BY DIV 26). COORDINATE FINISH WITH ARCHITECT.
5. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

1 / TA-500 TYPICAL AUDIO/VISUAL ROUGH-IN DETAIL

SCALE: N.T.S.

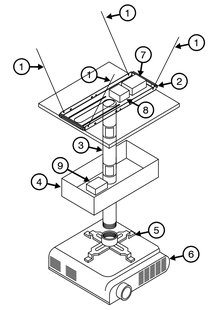


KEYED NOTES:

1. 4 11/16" x 4 11/16" x 2 1/8" RECESSED DOUBLE-GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE-GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED.
3. DOUBLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH A|V DEVICE(S) (BY DIV 26).
4. CONTROL PANEL - MANUFACTURER / MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE FINISH WITH ARCHITECT (BY DIV 27).

2 / TA-500 TYPICAL CONTROL PANEL DETAIL

SCALE: N.T.S.

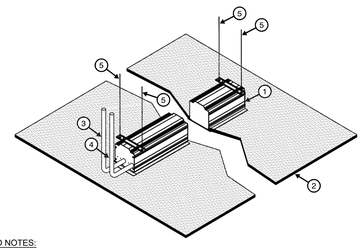


KEYED NOTES:

1. CEILING PLATE SUPPORT CABLES - ANCHOR TO OVERHEAD STRUCTURE. PLATE MUST BE SUPPORTED TO STRUCTURE BY ALL FOUR CORNERS.
2. ABOVE TILE SUSPENDED CEILING PROJECTOR MOUNTING PLATE - MANUFACTURER / MODEL NUMBER AS SPECIFIED.
3. CUSTOM-LENGTH MOUNTING COLUMN - PROVIDE 1.5" DIAMETER MOUNTING COLUMN OF SUFFICIENT LENGTH. ENSURE THAT NO PORTION OF THE MOUNT / PROJECTOR / ETC. PROTRUDES BELOW 80" A.F.F. PROVIDE PIPE COUPLER(S) WITH CABLE PASS-THROUGH SLOT AS REQUIRED.
4. COLUMN-MOUNTED EQUIPMENT SHELF, IF REQUIRED - MANUFACTURER / MODEL NUMBER AS SPECIFIED.
5. PROJECTOR-MOUNTING ADAPTER - MANUFACTURER / MODEL NUMBER AS SPECIFIED. REFER TO SPECIFICATIONS, DETAILS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.
6. PROJECTOR - MANUFACTURER / MODEL NUMBER AS SPECIFIED.
7. CEILING-MOUNTED JUNCTION BOX AND POWER OUTLET SHOWN FOR REFERENCE ONLY. COORDINATE FINAL LOCATION WITH DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION (BY DIV 26).
8. CEILING-MOUNTED JUNCTION BOX FOR PROJECTOR DATA (IF PRESENT). COORDINATE INSTALLATION WITH DIVISION 27 CONTRACTOR.
   a. DATA DROP(S) BY DIVISION 27 CONTRACTOR.
   b. JUNCTION BOX, MOUNTING HARDWARE (TILE BRIDGE/ HANGING HARDWARE / ETC.) AND CONDUIT (IF REQUIRED) BY DIVISION 26.
9. VIDEO OVER TWISTED-PAIR RECEIVER, IF REQUIRED, WITH SURFACE-MOUNTING HARDWARE AS REQUIRED / APPROPRIATE. (BY DIV 27).

3 / TA-500 TYPICAL SMALL PROJECTOR MOUNTING DETAIL

SCALE: N.T.S.



KEYED NOTES:

1. RECESSED PROJECTION SCREEN. MANUFACTURER / MODEL NUMBER AS SPECIFIED. MANUFACTURER / MODEL NUMBER PER SPECIFICATIONS. COORDINATE FINISH WITH CLIENT/ARCHITECT. INSTALLATION BY DIVISION 27.
2. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. 120VAC POWER TERMINATED TO PROJECTION SCREEN. CONDUIT SHOWN FOR REFERENCE ONLY. COORDINATE FINAL LOCATION WITH DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION (BY DIV 26).
4. IF THE SCREEN IS INSTALLED IN AN INACCESSIBLE CEILING - 1-INCH EMT CONDUIT FROM SCREEN CASE WITH 200 LBS PULL STRING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. COORDINATE FINAL LOCATION WITH DIVISION 27 CONTRACTOR (BY DIV 26).
5. THREADED ROD ANCHORED TO OVERHEAD STRUCTURE (BY DIV 27).

4 / TA-500 TYPICAL CEILING RECESSED PROJECTION SCREEN MOUNTING DETAIL

SCALE: N.T.S.

KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE-GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED.
3. DOUBLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH A|V DEVICE(S) (BY DIV 26).
4. CUSTOM 2-GANG FACEPLATE WITH 50-OHM BNC-M PASS-THROUGH CONNECTOR AND THREADED SURFACE-MOUNT MICROPHONE MOUNT ADAPTER (BY DIV 27).
5. WIRELESS MICROPHONE IN-LINE AMPLIFIER - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).
6. WIRELESS MICROPHONE ANTENNA - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

5 / TA-500 TYPICAL WIRELESS MICROPHONE ANTENNA DETAIL

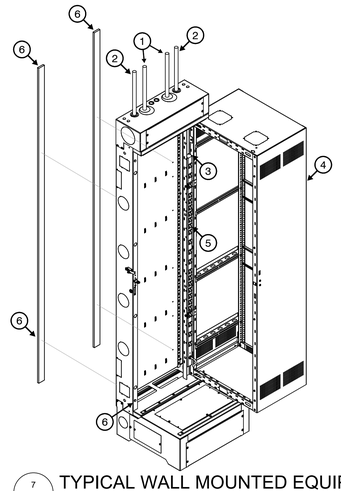
SCALE: N.T.S.

KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE-GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE-GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. DOUBLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH A|V DEVICE(S) (BY DIV 26).
4. ASSISTIVE LISTENING ANTENNA MOUNTING HARDWARE - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).
5. ASSISTIVE LISTENING ANTENNA - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

6 / TA-500 TYPICAL ASSISTIVE LISTENING SYSTEM ANTENNA DETAIL

SCALE: N.T.S.

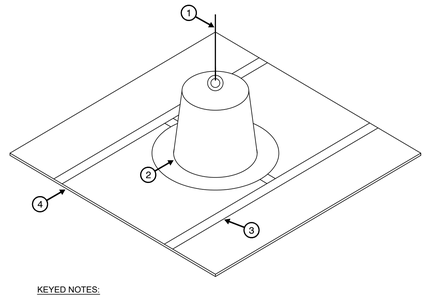


KEYED NOTES:

1. 2-INCH EMT CONDUIT WITH NYLON BUSHING. STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
2. 1 1/2-INCH EMT CONDUIT WITH NYLON BUSHING. STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. 1 X 20A 120VAC DEDICATED CIRCUITS - OUTLETS, JUNCTION BOXES, CONDUIT, ETC. SHOWN FOR REFERENCE ONLY (BY DIV 26).
4. EQUIPMENT RACK - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION (BY DIV 27).
5. IN-RACK POWER DISTRIBUTION - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION (BY DIV 27).
6. FOR STUD WALL INSTALLATION USE TOGGLE BOLT OR LAG SCREW PER MANUFACTURER INSTRUCTIONS (BY DIV 27).

7 / TA-500 TYPICAL WALL MOUNTED EQUIPMENT RACK DETAIL

SCALE: N.T.S.

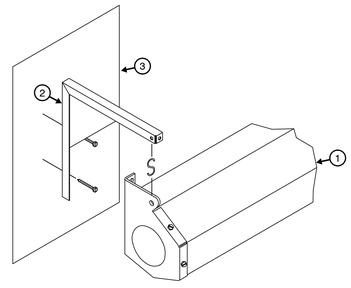


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED (BY DIV 27). COORDINATE FINISH WITH ARCHITECT.
3. TILE BRIDGE/SUPPORT HARDWARE - MANUFACTURER/MODEL NUMBER AS SPECIFIED/REQUIRED (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

8 / TA-500 TYPICAL FLUSH MOUNT LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.



KEYED NOTES:

1. PROJECTION SCREEN - MANUFACTURER / MODEL NUMBER AS SPECIFIED. COORDINATE FINISH WITH ARCHITECT. REFER TO SPECIFICATIONS, DETAILS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION (BY DIV 27).
2. WALL-MOUNTING BRACKET AND SUPPORT HARDWARE - MANUFACTURER, MODEL NUMBER AS SPECIFIED. FASTENED SECURELY TO WALL STRUCTURE. REFER TO SPECIFICATIONS, DETAILS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION. SUPPORT HARDWARE MUST BE CAPABLE OF SUPPORTING A MINIMUM OF 5 TIMES THE COMBINED WEIGHT OF ALL SUPPORT HARDWARE AND SUPPORTED EQUIPMENT (BY DIV 27).
3. IN-WALL BLOCKING FOR PROJECTION SCREEN MOUNTING. BLOCKING TO BE PRESENT AT LEAST 8" ABOVE AND 16" BELOW PROJECTION SCREEN CASE CENTER LINE AND AT LEAST 18" TO THE LEFT AND RIGHT OF EACH MOUNTING LOCATION. COORDINATE FINAL LOCATIONS WITH DIVISION 27 CONTRACTOR (BY DIV 26).

9 / TA-500 TYPICAL WALL-MOUNTED PROJECTION SCREEN MOUNTING DETAIL

SCALE: N.T.S.

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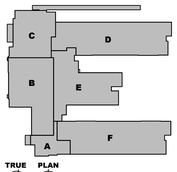

TRUE PLAN KEYPLAN

Project Number:	24.23
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Checked:	RG

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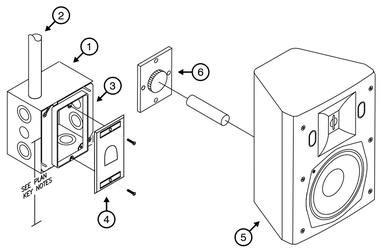
1	PERMIT SET	01/23/2026

Sheet Title:

AUDIO/VISUAL TYPICAL DETAILS

TA-500



KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV. 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV. 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH A/V DEVICE(S) (BY DIV 26).
4. PASS THROUGH PLATE (BY DIV. 27).
5. SURFACE-MOUNTED LOUDSPEAKER - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, DETAILS, SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE FINISH WITH ARCHITECT (BY DIV. 27).
6. LOUDSPEAKER MOUNTING BRACKET - MUST BE ATTACHED TO STUD, BACKING OR STRUCTURAL MEMBER. REFER TO DRAWINGS, DETAILS, SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE FINISH WITH ARCHITECT (BY DIV. 27)

1 / TA-501 TYPICAL SURFACE MOUNTED LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

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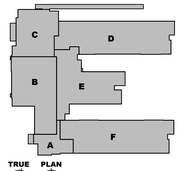

Project Number: 24.23
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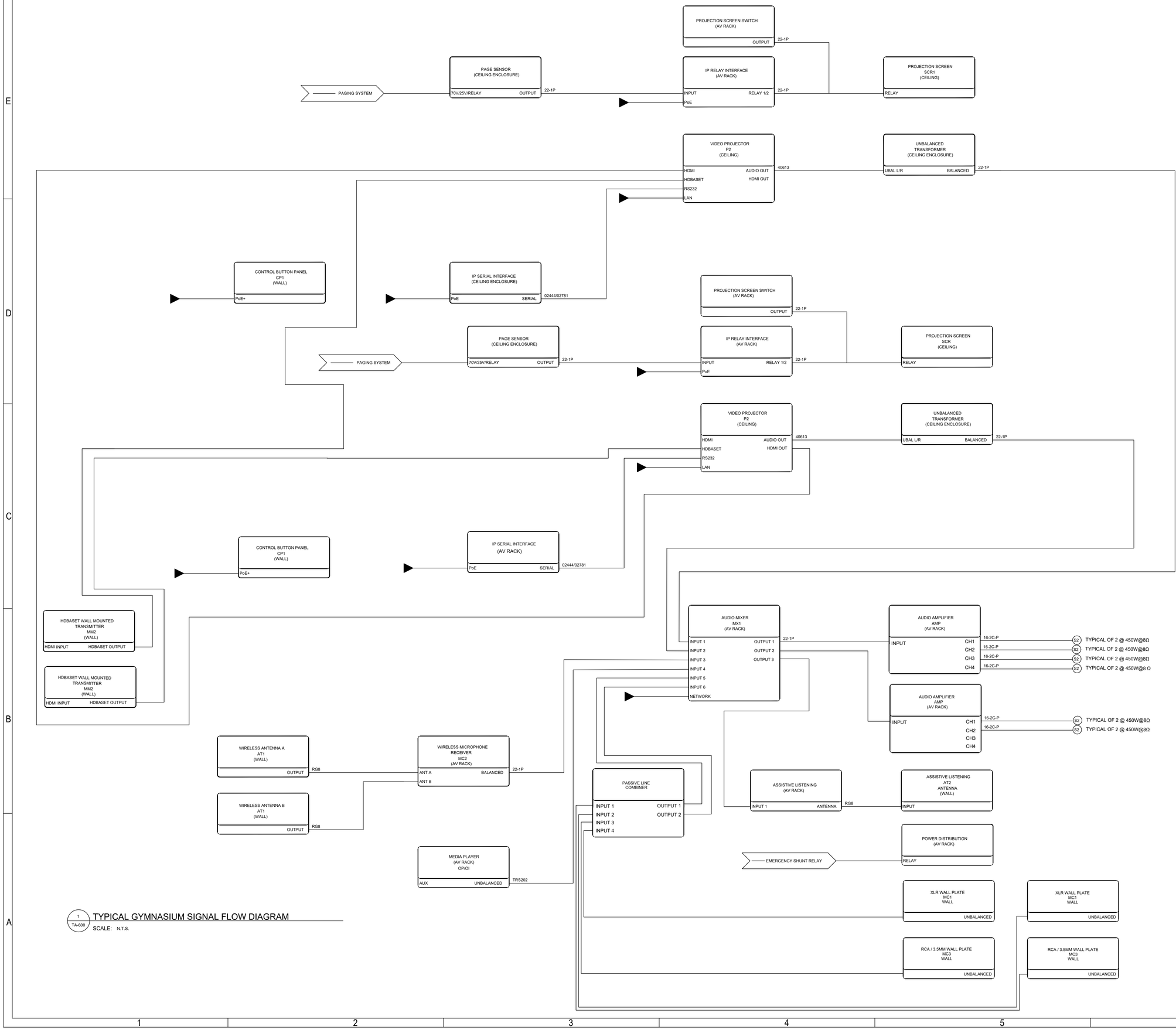
Revisions:

No.	Description	Date
1	PERMIT SET	01/23/2026

Sheet Title:

AUDIO/VISUAL TYPICAL DETAILS

TA-501



1
TA-600
TYPICAL GYMNASIUM SIGNAL FLOW DIAGRAM
SCALE: N.T.S.

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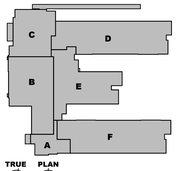

TRUE PLAN
KEYPLAN

Project Number: 24.23
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Checked: RG

Revisions:

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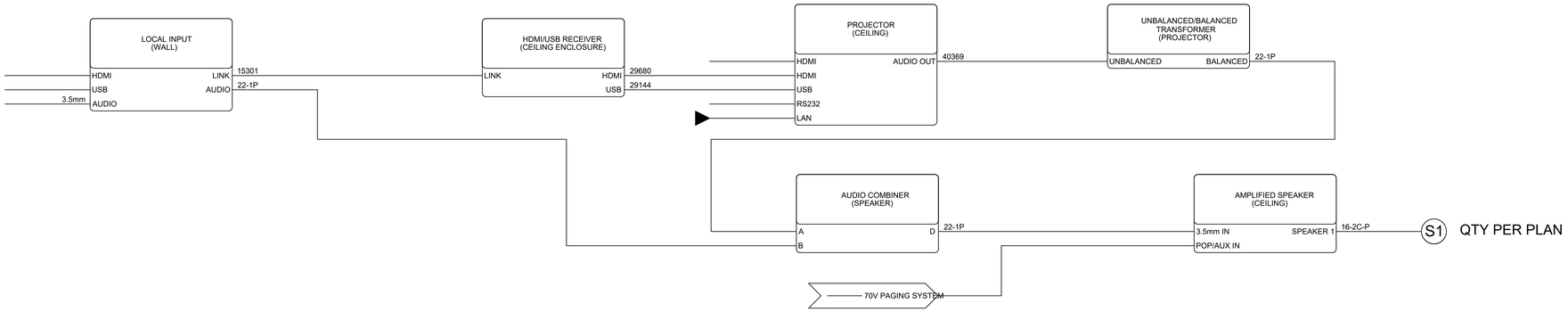
1	PERMIT SET	01/23/2026

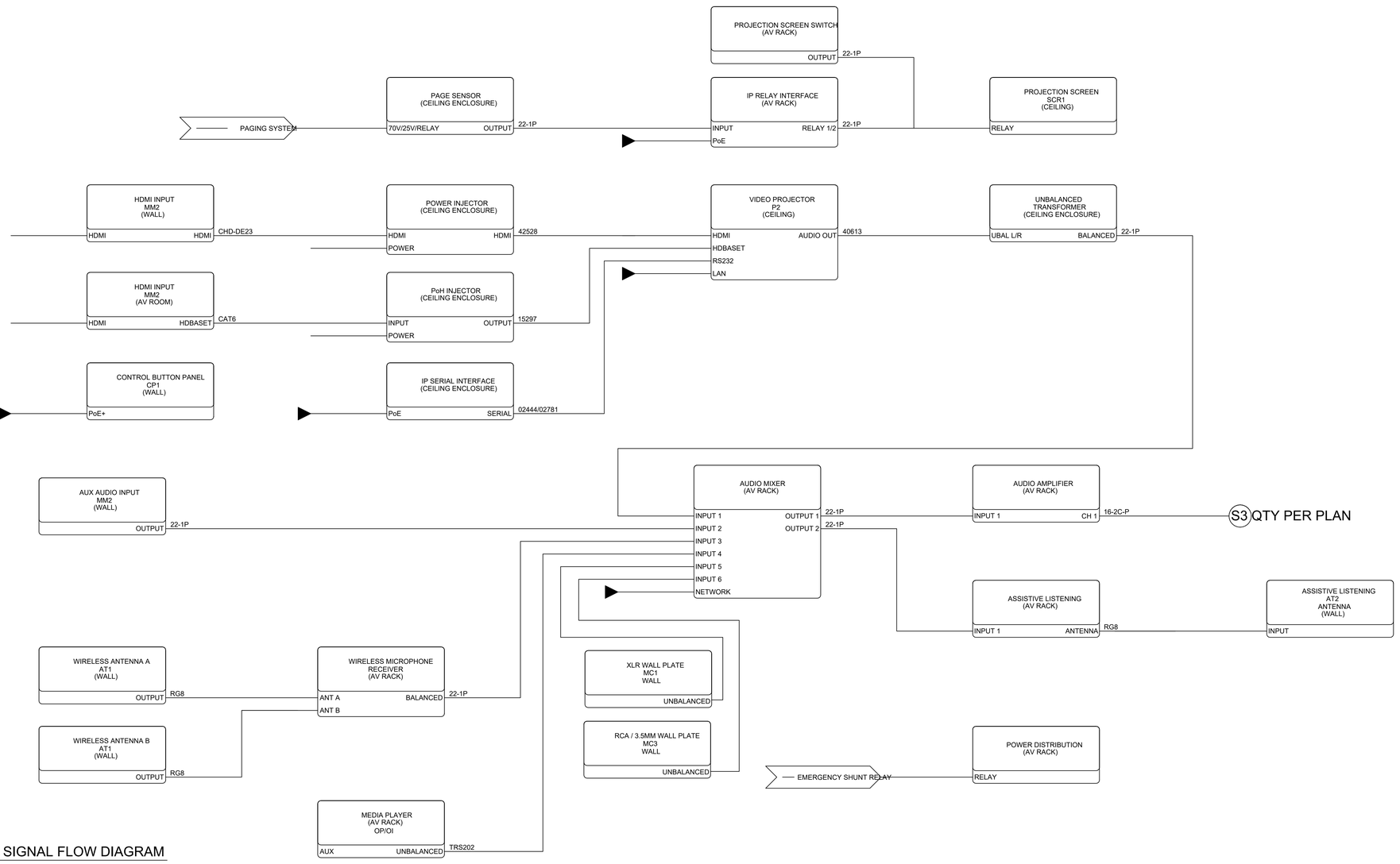
Sheet Title:
AUDIO/VISUAL DIAGRAMS

TA-600



1 TA-601 TYPICAL CLASSROOM SIGNAL FLOW DIAGRAM

SCALE: N.T.S.



2 TA-601 CAFETERIA SIGNAL FLOW DIAGRAM

SCALE: N.T.S.

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HARMONY PUBLIC SCHOOLS

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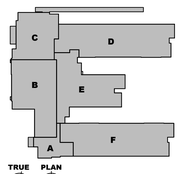

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AUDIO/VISUAL DIAGRAMS

TA-601

PUBLIC ADDRESS SYMBOLS & LEGEND

AUDIO/VISUAL SYMBOLS

ATP	CEILING-MOUNTED ANTENNA, # = TYPE AS SPECIFIED.
AT#	WALL-MOUNTED ANTENNA, # = TYPE AS SPECIFIED.
AVP	CEILING-MOUNTED AUDIO/VISUAL DEVICE, # = TYPE AS SPECIFIED.
AV#	WALL-MOUNTED AUDIO/VISUAL DEVICE, # = TYPE AS SPECIFIED.
C	CEILING-MOUNTED CLOCK.
C S	SINGLE SIDED CLOCK WALL-MOUNTED CLOCK.
C D	DOUBLE-SIDED WALL-MOUNTED CLOCK.
CAM	CEILING-MOUNTED A/V CAMERA.
CAM	WALL-MOUNTED A/V CAMERA.
CB	WALL-MOUNTED CALL BUTTON.
CE	CEILING MOUNTED EQUIPMENT ENCLOSURE.
CP#	WALL-MOUNTED CONTROL PANEL, # = TYPE AS SPECIFIED.
EQ#	EQUIPMENT RACK, # = TYPE AS SPECIFIED.
FB#	FLOOR BOX, # = TYPE AS SPECIFIED.
IR	CEILING-MOUNTED INFRARED DEVICE.
IR	WALL-MOUNTED INFRARED DEVICE.
L	LECTERN.
MCP	CEILING-MOUNTED MICROPHONE, # = TYPE AS SPECIFIED.
MC#	WALL-MOUNTED MICROPHONE, # = TYPE AS SPECIFIED.
MM#	WALL-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED.
MMP	CEILING-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED.
OP	CEILING-MOUNTED OCCUPANCY SENSOR.
OS	WALL-MOUNTED OCCUPANCY SENSOR.
PS	CEILING-MOUNTED PARTITION SENSOR.
P#	PROJECTOR, # = TYPE AS SPECIFIED.
R/R	WALL-MOUNTED ROUGH-IN LOCATION FOR FUTURE USE.
SP	CEILING-MOUNTED SPEAKER, # = TYPE AS SPECIFIED.
S#	WALL-MOUNTED SPEAKER, # = TYPE AS SPECIFIED.
VC	WALL-MOUNTED VOLUME CONTROL.
WB#	WALL BOX, # = TYPE AS SPECIFIED.
WE	WALL-MOUNTED EQUIPMENT ENCLOSURE.
S	WALL-MOUNTED HORN LOUD SPEAKER.
FPD#	FLAT PANEL DISPAY, # = TYPE AS SPECIFIED.
iFP#	INTERACTIVE FLAT PANEL, # = TYPE AS SPECIFIED.
SCR#	PROJECTION SCREEN, # = TYPE AS SPECIFIED.

VIDEO BROADBAND SYMBOLS

	VIDEO OUTLET, CABLE TYPE AND TERMINATION AS SPECIFIED.
	VIDEO OUTLET, CABLE TYPE AND TERMINATION AS SPECIFIED, FLUSH FLOOR MOUNTED.
	VIDEO BROADCAST OUTLET, CABLE TYPE AND TERMINATION AS SPECIFIED.
	VIDEO SYSTEM HEADEND, EQUIPMENT AS SPECIFIED.
	AMPLIFIER AS SPECIFIED.
DC-8	DIRECTIONAL COUPLER, dB LOSS LEVEL AS INDICATED.
	2-WAY VIDEO SPLITTER.
	3-WAY VIDEO SPLITTER BALANCED.
	3-WAY VIDEO SPLITTER UNBALANCED WITH HI-LEG INDICATED.
#	2-PORT VIDEO TAP, # = dB LOSS LEVEL AS INDICATED.
#	4-PORT VIDEO TAP, # = dB LOSS LEVEL AS INDICATED.
#	8-PORT VIDEO TAP, # = dB LOSS LEVEL AS INDICATED.
	VIDEO CABLE TERMINATION.
	.500 COAXIAL CABLE AS SPECIFIED.
COAX	COAXIAL BACKBONE.
	RG6 COAXIAL CABLE AS SPECIFIED.

GENERAL SYMBOLS

# SHEET — DRAWING TITLE SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
DEMARC	DEMARCATION POINT
DPDT	DOUBLE PULL DOUBLE THROW
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IMC	INTERMEDIATE METAL CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF TECHNOLOGY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. TECHNOLOGY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. DISCREPANCIES BETWEEN THE TECHNOLOGY DRAWINGS AND THE WRITTEN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT IN WRITING PRIOR TO SUBMITTING A BID/PROPOSAL FOR THE WORK.
5. IN THE EVENT OF A DISCREPANCY BETWEEN THE TECHNOLOGY DRAWINGS AND SPECIFICATIONS THE GREATER QUANTITY AND COST SHALL BE FURNISHED.
6. VERIFY THE EXACT MOUNTING LOCATION OF ALL DEVICES WITH ARCHITECT.
7. THE MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.
8. ALL MOUNTING SPECIFICS SHALL BE AS INDICATED IN THE LEGEND UNLESS OTHERWISE NOTED IN THE PLAN DRAWINGS. MOUNTING CONDITIONS IDENTIFIED ON THE PLANS SHALL TAKE PRECEDENCE OVER THE LEGEND DESCRIPTIONS.

INDEX OF DRAWINGS

TPA-000	PUBLIC ADDRESS SYMBOLS AND LEGEND
TPA-100	PUBLIC ADDRESS FLOOR PLAN - OVERALL
TPA-400	PUBLIC ADDRESS TYPICAL DETAILS

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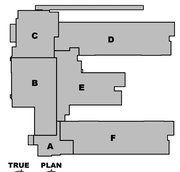

TRUE PLAN KEYPLAN

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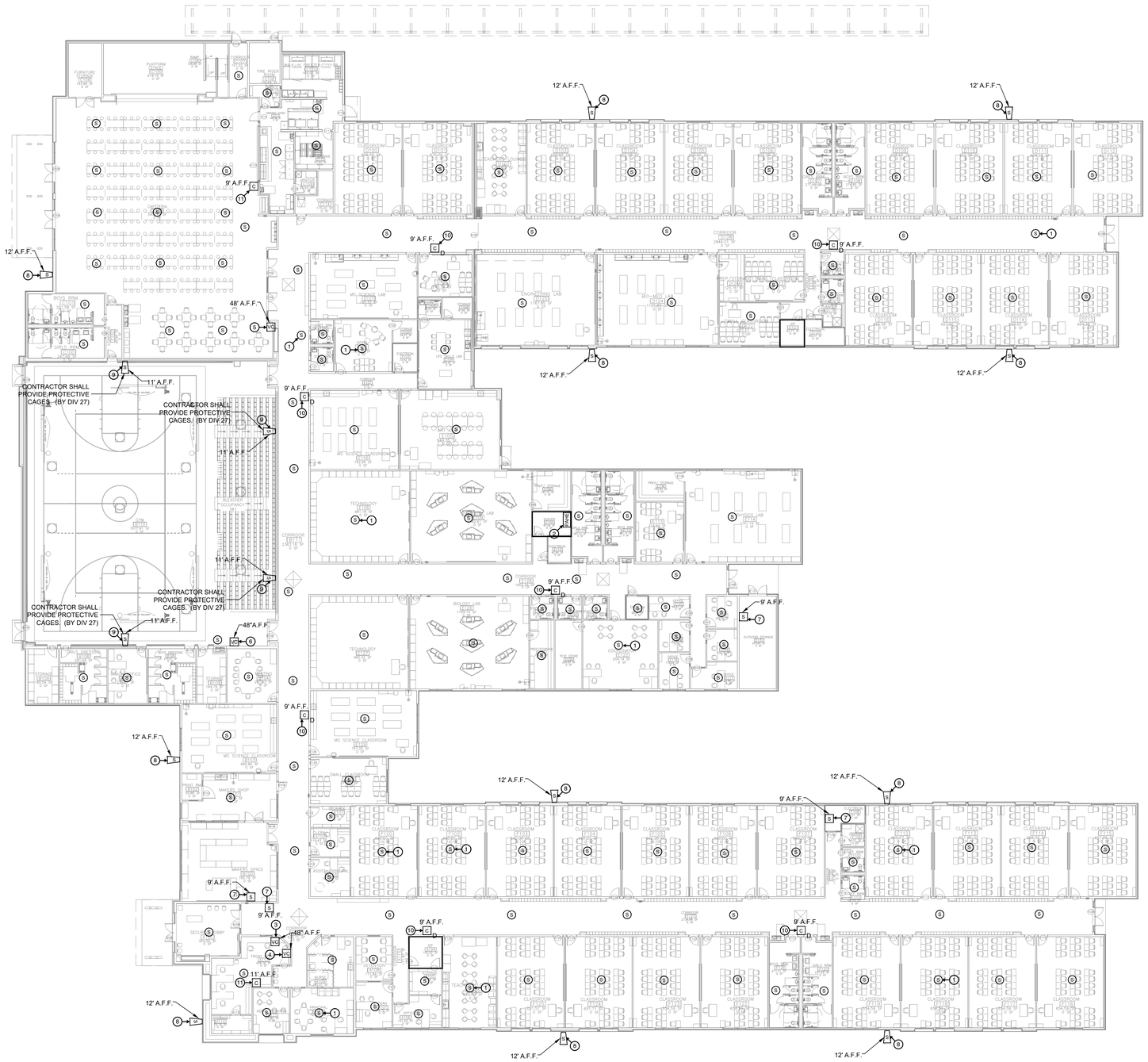
PUBLIC ADDRESS SYMBOLS AND LEGEND

TPA-000



TPA GENERAL NOTES

1. CONTRACTOR SHALL CONNECT ALL EXTERIOR SPEAKERS ON THERE OWN ZONE. (BY DIV 27)
2. CONTRACTOR SHALL CONNECT ALL LOBBY SPEAKERS ON THERE OWN ZONE. (BY DIV 27)
3. CONTRACTOR SHALL CONNECT ALL CAFETERIA SPEAKERS ON THERE OWN ZONE. (BY DIV 27)
4. CONTRACTOR SHALL CONNECT ALL GYM SPEAKERS ON THERE OWN (BY DIV 27)
5. CONTRACTOR SHALL PROVIDE PAGE ALL CALL FOR ALL ZONES FOR ZONES. (BY DIV 27)
6. CONTRACTOR SHALL COORDINATE ALL WALL MOUNTED ROUGH INS, DEVICES INSTALLATIONS WITH THE IN THE CORRIDORS, CAFETERIA, GYM AND EXTERIOR WITH THE ARCHITECTUAL WALL PANELS AND ACOUSTICS PRIOR TO ROUGH IN OR INSTALLATION.

TPA FLOOR PLAN KEYED NOTES

1. APPROXIMATE LOCATION OF NEW CEILING MOUNTED PA SPEAKER. (BY DIV 27)
2. APPROXIMATE LOCATION OF NEW PA SYSTEM HEADEND UNIT. CONTRACTOR SHALL RACK MOUNT THE PA SYSTEM AS SHOWN ON PAGE T300. (BY DIV 27)
3. APPROXIMATE LOCATION OF NEW PA SYSTEM VOLUME CONTROL FOR LOBBY. (BY DIV 27)
4. APPROXIMATE LOCATION OF NEW VOLUME CONTROL FOR EXTERIOR SPEAKERS. (BY DIV 27)
5. APPROXIMATE LOCATION OF NEW VOLUME CONTROL FOR CAFETERIA SPEAKERS. (BY DIV 27)
6. APPROXIMATE LOCATION OF NEW VOLUME CONTROL FOR GYM SPEAKERS. (BY DIV 27)
7. APPROXIMATE LOCATION OF NEW INTERIOR WALL MOUNTED SPEAKER. (BY DIV 27)
8. APPROXIMATE LOCATION OF NEW EXTERIOR WALL MOUNTED HORN SPEAKER. (BY DIV 27)
9. APPROXIMATE LOCATION OF NEW INTERIOR WALL MOUNTED HORN SPEAKER. (BY DIV 27)
10. APPROXIMATE LOCATION OF DUAL SIDED DIGITAL CLOCK. (BY DIV 26/27)
11. APPROXIMATE LOCATION OF SINGLE SIDED DIGITAL CLOCK. (BY DIV 26/27)

PUBLIC ADDRESS FLOOR PLAN - OVERALL

1 / TPA-100 SCALE: 1/16" = 1'-0"

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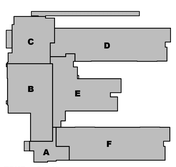

TRUE NORTH PLAN KEYPLAN

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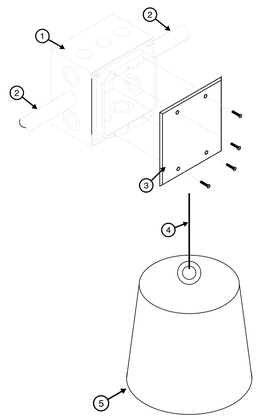
PUBLIC ADDRESS FLOOR PLAN - OVERALL

TPA-100

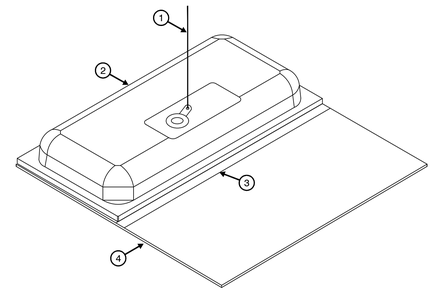


KEYED NOTES:

1. 4 11/16" X 4 11/16" X 2 1/8" DOUBLE GANG BOX SECURELY MOUNTED TO OVERHEAD STRUCTURE AT LOUDSPEAKER LOCATION. COORDINATE FINAL MOUNTING LOCATION AND ROUGH-IN DETAILS WITH AUDIO|VISUAL CONTRACTOR (BY DIV 26).
2. 1" EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING. ROUTE CONDUIT FROM BOX TO NEXT BOX IN THE CHAIN OR TO SOURCE/SINK DEVICE AS REQUIRED. COORDINATE FINAL MOUNTING DETAILS WITH AUDIO|VISUAL CONTRACTOR (BY DIV 26).
3. BLANK COVER PLATE (BY DIV 26).
4. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
5. LOUDSPEAKER - MANUFACTURER/MODEL NUMBER AS SPECIFIED (BY DIV 27). COORDINATE FINISH WITH ARCHITECT.

1 TPA-400 TYPICAL OPEN CEILING LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

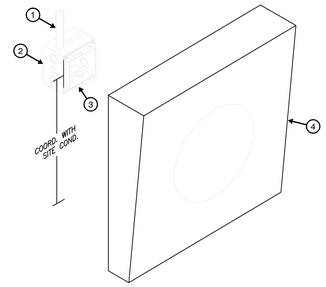


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER/MODEL NUMBER AS SPECIFIED (BY DIV 27).
3. T-RAIL CROSSPIECE (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

2 TPA-400 TYPICAL LAY-IN LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

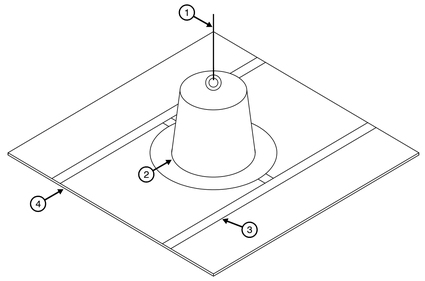


KEYED NOTES:

1. 1" EMT CONDUIT FROM DOUBLE-GANG BOX / ACCESSIBLE CEILING TO NEXT DOUBLE-GANG BOX IN SPEAKER CHAIN (BY DIV 16).
2. 4-11/16" X 4-11/16" X 2-1/8" SURFACE-MOUNTED DOUBLE-GANG BOX (BY DIV 16).
3. DOUBLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. SURFACE-MOUNTED INDOOR LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, DETAILS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION. (BY DIV 17).

3 TPA-400 TYPICAL INDOOR SURFACE-MOUNTED LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

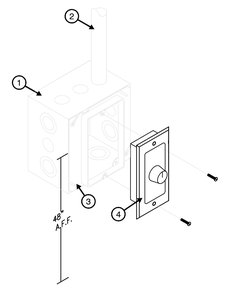


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED (BY DIV 27). COORDINATE FINISH WITH ARCHITECT.
3. TILE BRIDGE/SUPPORT HARDWARE - MANUFACTURER/MODEL NUMBER AS SPECIFIED/REQUIRED (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

4 TPA-400 TYPICAL CUT-IN LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

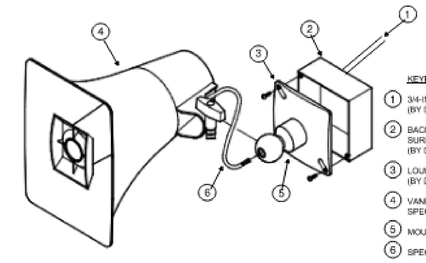


KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. AUDIO LEVEL CONTROL - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

5 TPA-400 TYPICAL WALL MOUNTED AUDIO ATTENUATOR DETAIL

SCALE: N.T.S.



KEYED NOTES:

1. 3/4-INCH EMT CONDUIT TO ABOVE ACCESSIBLE CEILING (BY DIV 26).
2. BACK BOX/HOUSING FOR LOUDSPEAKER - RECESSED OR SURFACE MOUNT. MANUFACTURER/MODEL # AS SPECIFIED (BY DIV 27).
3. LOUDSPEAKER - MANUFACTURER/MODEL # AS SPECIFIED (BY DIV 27).
4. VANDAL-RESISTANT GRILLE - MANUFACTURER/MODEL # AS SPECIFIED (BY DIV 27).
5. MOUNTING PLATE TO SPEAKER (BY DIV 27)
6. SPECIFIED SPEAKER WIRE. (BY DIV 27)

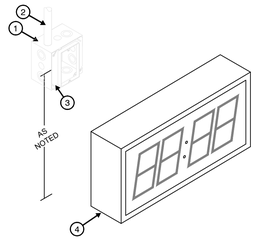
6 TPA-400 TYPICAL OUTDOOR LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

REFER TO PAGING LEGEND PAGE FOR SINGLE AND DUAL SIDE CLOCK SYMBOLS

C/D DUAL SIDED CLOCK

C SINGLE SIDED CLOCK



KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. DIGITAL CLOCK - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

7 TPA-400 TYPICAL WALL-MOUNTED DIGITAL CLOCK DETAIL

SCALE: N.T.S.

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EXPIRES 12-31-26
Jason Gonzalez
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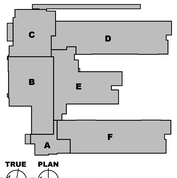

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PUBLIC ADDRESS TYPICAL DETAILS

TPA-400

SECURITY SYMBOLS & LEGEND

ACCESS CONTROL SYMBOLS

AD	INTERFACE TO AUTOMATIC DOOR CONTROL AND MONITORING.
BI	INTERFACE TO RETRACTABLE VEHICLE BOLLARD.
BR	BIOMETRIC READER.
CH	DOOR BELL CHIME.
CR	CARD READER.
CR1	CARD READER MULLION MOUNT.
CR2	ELEVATOR CARD READER.
CR3	CARD READER/INTERCOM UNIT.
CR4	CARD READER/INTERCOM PEDESTRIAN PEDESTAL.
D	DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE OR COUNTER PROVIDE ARMORED CABLE FROM DURESS BUTTON TO JUNCTION BOX.
D	WALL MOUNTED DURESS BUTTON.
DB	DOOR BELL.
DC	DOOR CONTACT.
DC1	OVERHEAD DOOR CONTACT. PROVIDE ARMORED CABLE FROM SWITCH TO JUNCTION BOX.
DMA	DOOR MANAGEMENT ANNUNCIATOR.
ER	SINGLE DOOR RELEASE PUSHBUTTON UNDER COUNTER. ARMORED CABLE FROM PUSHBUTTON TO JUNCTION BOX.
EL	INTERFACE TO ELEVATOR CONTROL/MONITORING.
FA	INTERFACE TO FIRE ALARM SYSTEM.
GC	INTERFACE TO PARKING GATE CONTROL/MONITORING.
IC	AUDIO INTERCOM SUBSTATION.
IM	INTERCOM MASTER STATION AS INDICATED BLOCK DIAGRAM AND/OR DETAILS.
KS	KEYSWITCH.
LD	LOCKDOWN BUTTON UNDER COUNTER. ARMORED CABLE FROM LOCKDOWN BUTTON TO JUNCTION BOX.
LD	LOCKDOWN BUTTON.
OD	INTERFACE TO OVERHEAD DOOR CONTROL/MONITORING.
RD	INTERFACE TO MOTORIZED REVOLVING DOOR CONTROL/MONITORING.
REX	REQUEST-TO-EXIT IS INTEGRAL WITH ELECTRIFIED LOCKING HARDWARE. PROVIDED AND INSTALLED BY OTHERS.
RX	REQUEST-TO-EXIT MOTION SENSOR MOUNTED CEILING-MOUNTED.
RX	REQUEST-TO-EXIT MOTION SENSOR DOOR FRAME-MOUNTED.
SD	INTERFACE TO SLIDING DOOR CONTROL/MONITORING.
SR	SECURITY SYSTEM RISER, DATA GATHERING PANEL AND LOW VOLTAGE POWER SUPPLY DISTRIBUTION LOCATION.
VI	VIDEO INTERCOM SUBSTATION.
VM	DESKTOP VIDEO INTERCOM MASTER STATION.
WD	WIRELESS DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE, OR COUNTER.

ACCESS CONTROL SYMBOLS

WDRR	WIRELESS DOOR RELEASE RECEIVER DEVICE.
WDRT	WIRELESS DOOR RELEASE TRANSMITTER DEVICE.
WR	WIRELESS DURESS BUTTON RECEIVER DEVICE.
WT	WIRELESS DURESS BUTTON TRANSMITTER DEVICE.
	PRE-WIRE AND BLANK COVER PLATE FOR FUTURE DEVICE.

ELECTRONIC SURVEILLANCE SYMBOLS

	FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED 180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED 360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
CLG	CEILING-MOUNTED PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.

GENERAL SYMBOLS

# SHEET — DRAWING TITLE — SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION

INTRUSION DETECTION SYMBOLS

AL	ALARM ANNUNCIATOR LIGHT.
AP	ANNUNCIATOR PANEL AS INDICATED IN BLOCK DIAGRAMS AND/OR DETAILS.
AV	AUDIO VISUAL ANNUNCIATOR.
FA	INTERFACE TO FREEZER/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
FC	FUTURE CABLE AS SPECIFIED.
GB	CEILING-MOUNTED GLASS BREAK SENSOR.
GB	GLASS BREAK SENSOR.
KP	PERSONAL IDENTIFICATION NUMBER KEYPAD.
M	SOUND DETECTION MICROPHONE.
MD	360° MOTION DETECTOR MOUNTED TO CEILING.
MD	MOTION DETECTOR.
MD LR	LONG RANGE MOTION DETECTOR.
RA	INTERFACE TO REFRIGERATOR/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
ST	STROBE LIGHT SURFACE MOUNTED TO CEILING.
ST	STROBE LIGHT.
V	VIBRATION DETECTOR.

MISCELLANEOUS SECURITY SYMBOLS

B	ALERTUS BEACON MOUNTED AT 60" A.F.F. UNLESS OTHERWISE NOTED
EP	EMERGENCY PHONE.
LS	FLOOR MOUNTED LIQUID SENSOR. PROVIDE ARMORED CABLE FROM SENSOR TO JUNCTION BOX.
S	INTERCOM SPEAKER FLUSH MOUNTED IN CEILING.
	ALERTUS LED MARQUEE (SINGLE SIDED)
	ALERTUS LED MARQUEE (DOUBLE SIDED)

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
B	BURIED
CAT.3/5	CATEGORY 3/5
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
DEMARC	DEMARCATION POINT
DPDT	DOUBLE PULL DOUBLE THROW
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IRC	INTERMEDIATE RIGID CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW ALL SECURITY DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF SECURITY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. SECURITY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/ENGINEER'S INTERPRETATION.

INDEX OF DRAWINGS

TS-000 SECURITY SYMBOLS & LEGEND
TS-001 SECURITY SITE PLAN
TS-101 SECURITY FLOOR PLAN - OVERALL
TS-400 SECURITY TYPICAL DETAILS
TS-401 SECURITY TYPICAL DETAILS
TS-500 SECURITY SCHEDULES

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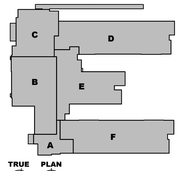

TRUE PLAN NORTH — KEYPLAN

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SECURITY SYMBOLS AND LEGENDS

TS-000

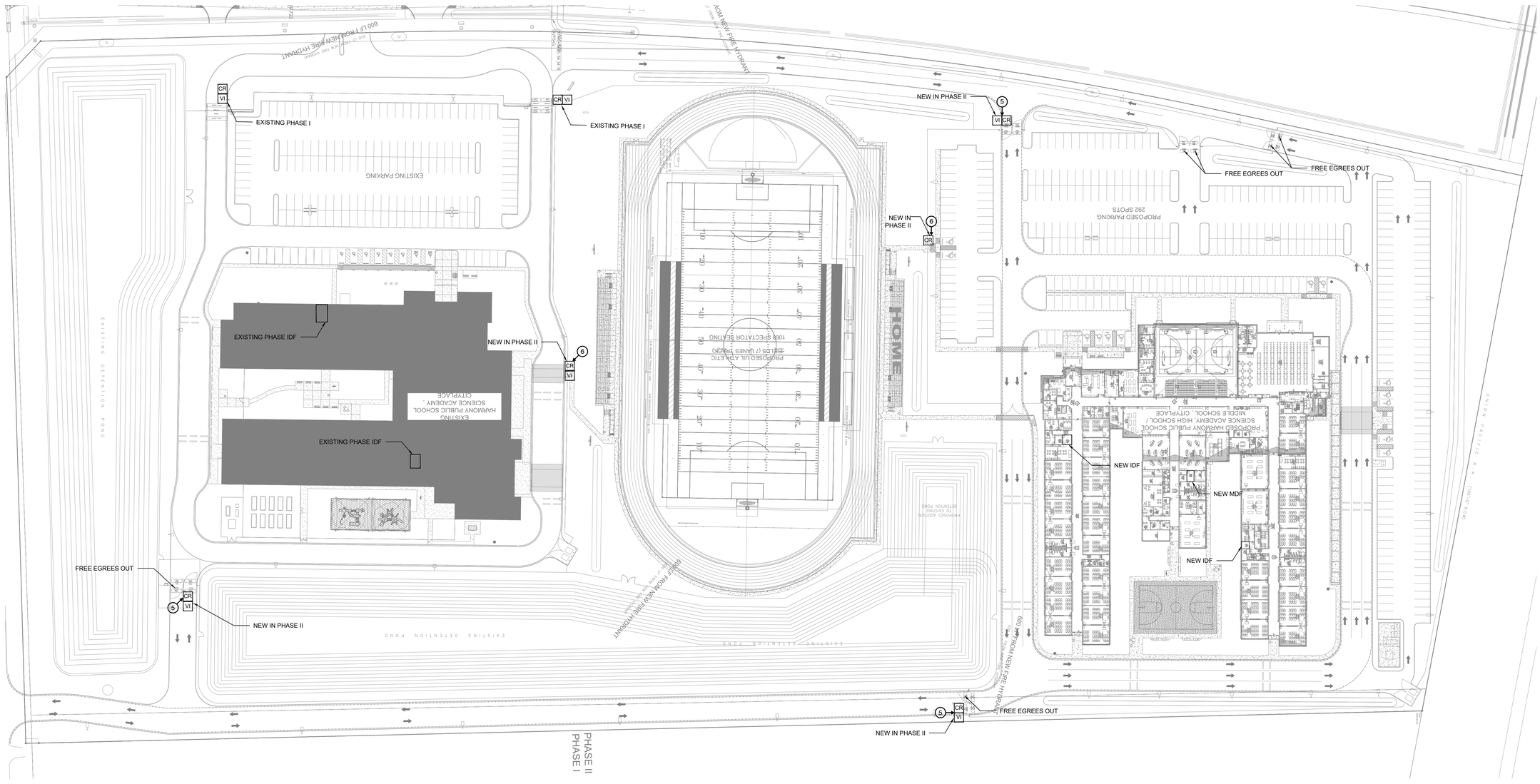
THE CONTRACTOR SHALL ENSURE THEY PROVIDE AND INSTALL GATE RELEASE BUTTONS FOR ALL DRIVE IN GATES. THE BUTTON SHALL BE LOCATED IN THE RECEPTIONIST OFFICE. (BY DIV 28)

GENERAL NOTES - New Construction

1. ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC. INDICATED ON THE SECURITY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
2. ALL POWER INDICATED ON THE SECURITY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR DATA, VOICE, AND SECURITY CABLING BACK TO THE ORIGINAL RATING.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR DATA, VOICE, AND SECURITY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
5. CABLING FOR DATA, VOICE, AND SECURITY SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VOICE, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
6. ALL CONDUITS FOR DATA, VOICE, AND SECURITY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE DATA ROOM TO MINIMIZE THE CABLE LENGTH.
7. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
8. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
9. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
10. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
11. EXISTING CONDUIT AND DATA CABLE THAT FEEDS EXISTING SURVEILLANCE CAMERAS. IF REMOVAL IS NECESSARY, COORDINATE WITH THE ARCHITECT/ENGINEER PRIOR TO REMOVAL (BY DIV 26 AND DIV 27).

KEYED NOTES (GENERAL):

1. THIS DOOR RELEASE AND ACCESS CONTROLLED DOOR ARE ASSOCIATED. THE ASSOCIATED DOOR RELEASE SHALL UNLOCK DOOR A100A (BY DIVISION 28).
2. THIS DOOR RELEASE AND ACCESS CONTROLLED DOOR ARE ASSOCIATED. THE ASSOCIATED DOOR RELEASE SHALL UNLOCK DOOR A101 (BY DIVISION 28).
3. THIS VIDEO INTERCOM AND VIDEO INTERCOM MASTER STATION ARE ASSOCIATED. THE ASSOCIATED VIDEO INTERCOM SHALL RING TO AND COMMUNICATE WITH THE ASSOCIATED VIDEO INTERCOM MASTER STATION (BY DIVISION 28).
4. (2) 2-INCH CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH A NYLON BUSHING ON EACH END AND SECURED TO THE WALL. CONDUIT SLEEVES SHALL BE USED FOR SECURITY CABLE ONLY (BY DIVISION 26)
5. CONTRACTOR PROVIDED, INSTALLED, CONFIGURED CARD READER AT A VEHICLE GATE. THE CARD READER SHALL INTEGRATE INTO THE ACCESS CONTROL SYSTEM. THE SECURITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE GATE CONTRACTOR, ELECTRICIAN, AND ARCHITECT TO PROVIDE A FULL TURN-KEY SOLUTION. THE CABLING ASSOCIATED WITH THIS CARD READER SHALL BE OSP RATED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING WIEGAND EXTENDERS AS REQUIRED (BY DIVISION 28).
6. CONTRACTOR PROVIDED, INSTALLED, CONFIGURED CARD READER AT A PEDESTRIAN GATE. THE CARD READER SHALL INTEGRATE INTO THE ACCESS CONTROL SYSTEM. THE SECURITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE GATE CONTRACTOR, ELECTRICIAN, AND ARCHITECT TO PROVIDE A FULL TURN-KEY SOLUTION. THE CABLING ASSOCIATED WITH THIS CARD READER SHALL BE OSP RATED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING WIEGAND EXTENDERS AS REQUIRED (BY DIVISION 28).



1 TS-001

SECURITY OVERALL SITE PLAN

SCALE: 1" = 50'-0"

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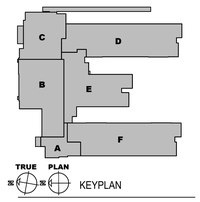

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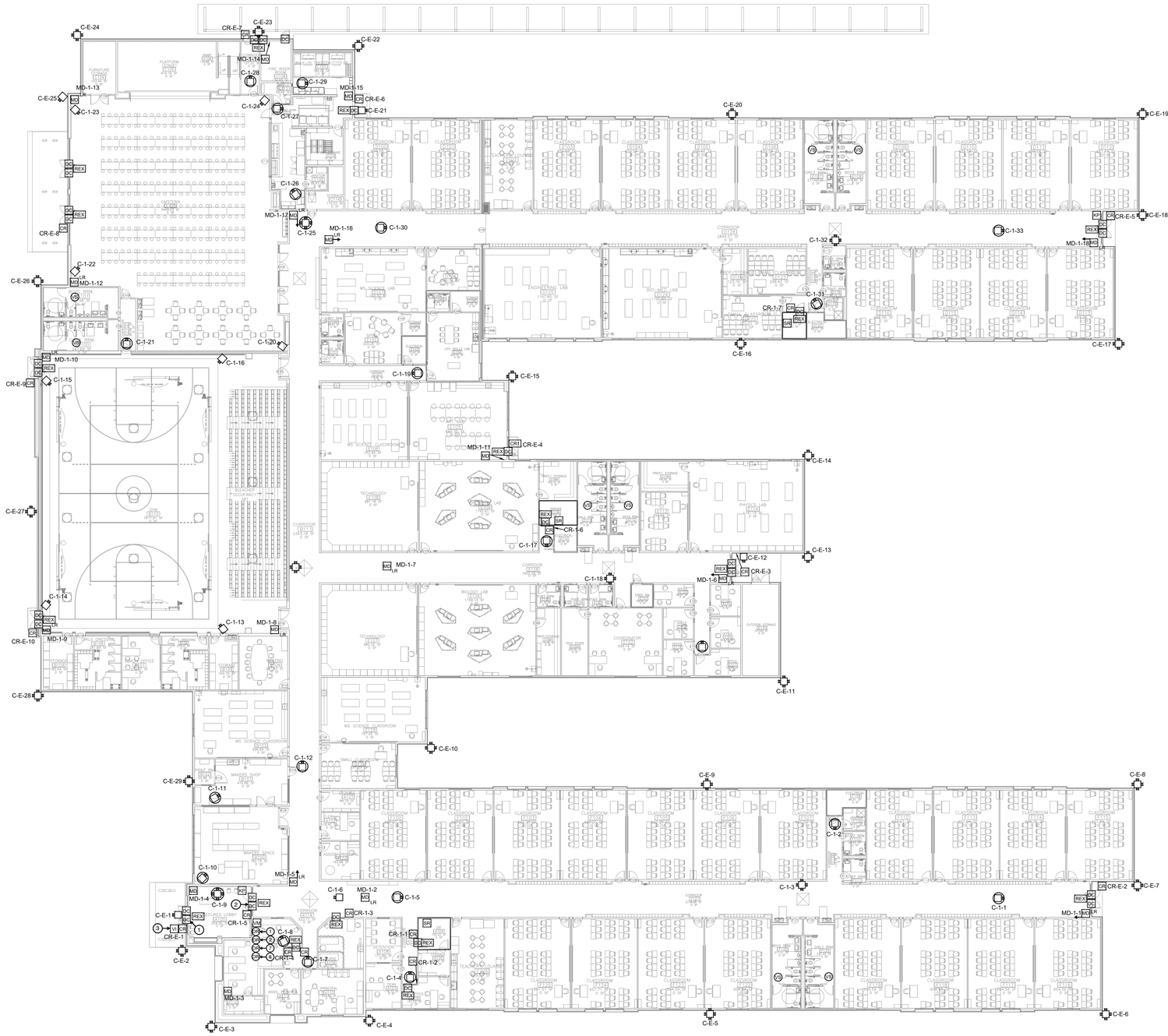
SECURITY SITE PLAN

TS-001



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4. (2) 2-INCH CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH A NYLON BUSHING ON EACH END AND SECURED TO THE WALL. CONDUIT SLEEVES SHALL BE USED FOR SECURITY CABLE ONLY (BY DIVISION 26)
5. CONTRACTOR PROVIDED, INSTALLED, CONFIGURED CARD READER AT A VEHICLE GATE. THE CARD READER SHALL INTEGRATE INTO THE ACCESS CONTROL SYSTEM. THE SECURITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE GATE CONTRACTOR, ELECTRICIAN, AND ARCHITECT TO PROVIDE A FULL TURN-KEY SOLUTION. THE CABLING ASSOCIATED WITH THIS CARD READER SHALL BE OSP RATED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING WIEGAND EXTENDERS AS REQUIRED (BY DIVISION 28).
6. CONTRACTOR PROVIDED, INSTALLED, CONFIGURED CARD READER AT A PEDESTRIAN GATE. THE CARD READER SHALL INTEGRATE INTO THE ACCESS CONTROL SYSTEM. THE SECURITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE GATE CONTRACTOR, ELECTRICIAN, AND ARCHITECT TO PROVIDE A FULL TURN-KEY SOLUTION. THE CABLING ASSOCIATED WITH THIS CARD READER SHALL BE OSP RATED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING WIEGAND EXTENDERS AS REQUIRED (BY DIVISION 28).
7. CONTRACTOR SHALL PROVIDE VEHICLE GATE RELEASE BUTTONS AT THE FRONT OFFICE TO ENSURE THE VEHICLE GATES CAN BE OPENED. (BY DIVISION 28)
8. CONTRACTOR SHALL PROVIDE VEHICLE GATE RELEASE BUTTONS AT THE FRONT OFFICE TO ENSURE THE VEHICLE GATES CAN BE OPENED. (BY DIVISION 28)

SECURITY FLOOR PLAN - OVERALL
1 / TS-101
SCALE: 1/16" = 1'-0"

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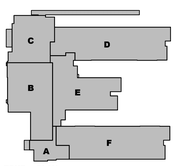

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Drawn: RD
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Revisions:

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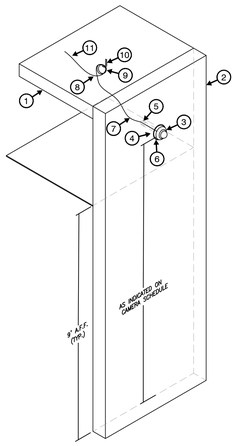
1	PERMIT SET	01/23/2026

Sheet Title:
SECURITY FLOOR PLAN - OVERALL

TS-101

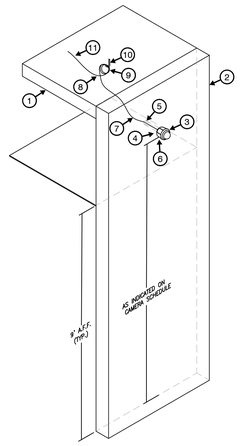


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. EXTERIOR WALL AS SCHEDULED.
3. EXTERIOR WALL MOUNTED IP VIDEO SURVEILLANCE DOME CAMERA (REFERENCE SPECIFICATION)
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
5. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING (BY DIV 26).
6. WEATHERTIGHT GASKET FOR WEATHERPROOF BACKBOX (BY DIV 26).
7. PATCH CORD AS SPECIFIED.
8. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
10. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
11. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

TYPICAL EXTERIOR WALL MOUNTED SURVEILLANCE CAMERA

1 / TS-400 SCALE: N.T.S.

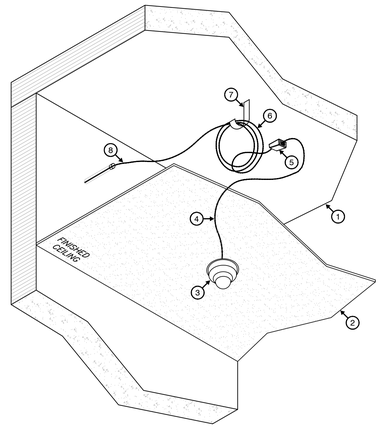


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. EXTERIOR WALL AS SCHEDULED.
3. EXTERIOR WALL MOUNTED IP VIDEO SURVEILLANCE DOME CAMERA (REFERENCE SPECIFICATION)
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
5. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING (BY DIV 26).
6. WEATHERTIGHT GASKET FOR WEATHERPROOF BACKBOX (BY DIV 26).
7. PATCH CORD AS SPECIFIED.
8. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
10. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
11. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

TYPICAL INTERIOR WALL MOUNTED PAN TILT ZOOM SURVEILLANCE CAMERA

2 / TS-400 SCALE: N.T.S.

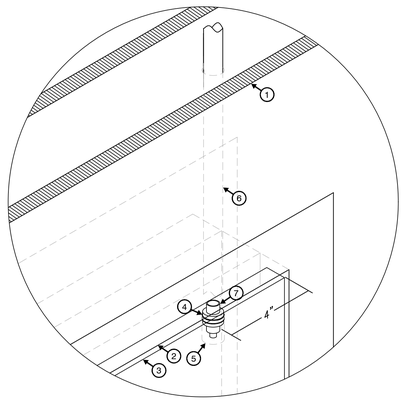


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. LAY-IN CEILING AS SCHEDULED.
3. CEILING MOUNTED PTZ INTERIOR IP VIDEO SURVEILLANCE DOME CAMERA (REFERENCE DIV 28 SPECIFICATIONS FOR EXACT MODEL).
4. PATCH CORD (BY DIV 27).
5. SURFACE MOUNT DATA OUTLET ABOVE ACCESSIBLE CEILING (BY DIV 27).
6. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
7. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
8. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

TYPICAL INTERIOR CEILING MOUNTED SURVEILLANCE CAMERA

3 / TS-400 SCALE: N.T.S.

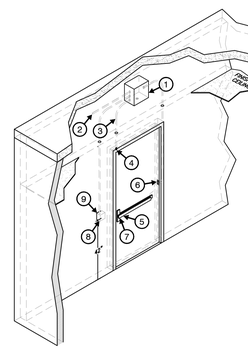


KEYED NOTES:

1. SCHEDULED PARTITION.
2. HEAD OF DOOR FRAME. PROVIDE TAB AT DOOR FRAME TO SECURE CONDUIT DIRECTLY ABOVE DOOR POSITION SWITCH.
3. SCHEDULED DOOR.
4. 15/16" DIAMETER HOLE IN THE HEAD OF FRAME FOR CONCEALED DOOR CONTACT.
5. 15/16" DIAMETER X 1 5/8" DEEP HOLE IN TOP OF DOOR FOR CONCEALED DOOR CONTACT MAGNET.
6. 1/2" CONDUIT FROM 6" X 6" X 4" JUNCTION BOX ABOVE DOOR (BY DIV 26).
7. DOOR CONTACT (REFERENCE SPECIFICATION).

DOOR CONTACT - SINGLE DOOR RECESSED

4 / TS-400 SCALE: SCALE

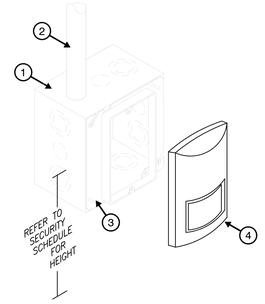


KEYED NOTES:

1. (1) 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV. 26).
2. (1) 1-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR FOR ACCESS CONTROL CABLE (BY DIV. 26).
3. (1) 1/2-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6-INCHES FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3-INCH BLOCKOUT FOR GROUTED DOORS (BY DIV. 26).
4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
5. (1) REQUEST TO EXIT MOTION SENSOR INTEGRAL TO EXIT DEVICE (BY DIV. 26).
6. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
7. (1) ELECTRIFIED EXIT DEVICE ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO A RECESSED DOUBLE GANG BOX WITH A SINGLE GANG PLASTER RING FOR CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 26).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

WALL MOUNTED CARD READER WITH ELECTRIFIED EXIT DEVICE AND REQUEST TO EXIT INTEGRAL SWITCH

5 / TS-400 SCALE: N.T.S.

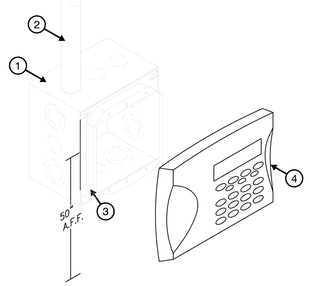


KEYED NOTES:

1. 4 1/16-INCH x 4 1/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING (BY DIV 26).
3. SINGLE GANG PLASTER RING (BY DIV 26).
4. SCHEDULED MOTION DETECTOR (BY DIV. 28).

TYPICAL MOTION DETECTOR - WALL MOUNT

6 / TS-400 SCALE: N.T.S.

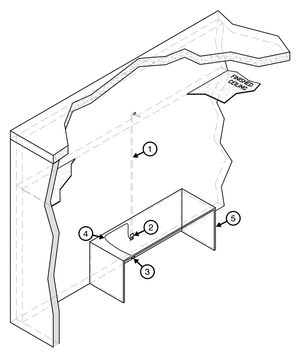


KEYED NOTES:

1. 4 1/16-INCH x 4 1/16-INCH x 2 1/8-INCH DOUBLE GANG BOX (BY DIV 26). RECESS WHEN POSSIBLE.
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED TO CABLE TRAY (BY DIV 26).
3. DOUBLE GANG PLASTER RING (BY DIV 26).
4. SCHEDULED ARM/DISARM KEYPAD (REFERENCE SPECIFICATION).

TYPICAL ARM/DISARM KEYPAD DETAIL

7 / TS-400 SCALE: N.T.S.



KEYED NOTES

1. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED ACCESSIBLE CEILING (BY DIV. 26).
2. RECESSED DOUBLE GANG JUNCTION BOX WITH COVER PLATE MOUNTED AT 1'-6" A.F.F. (BY DIV. 26).
3. DURESS BUTTON MOUNTED WITH KNEE SPACE OF DESK (BY DIV. 28).
4. ARMORED CABLE FROM DOUBLE GANG JUNCTION BOX TO DURESS BUTTON ATTACHED TO WALL AND UNDER SIDE OF DESK.
5. DESK/COUNTER AS SCHEDULED.

PANIC BUTTON - KNEE SPACE MOUNT

8 / TS-400 SCALE: N.T.S.

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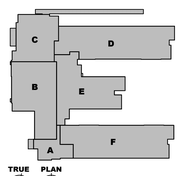

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Revisions:

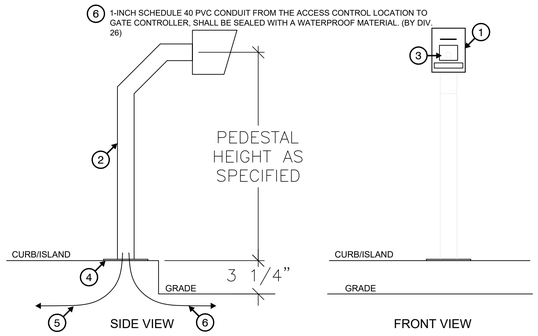
No.	Description	Date
1	PERMIT SET	01/23/2026

Sheet Title:
SECURITY TYPICAL DETAILS

TS-400

KEYED NOTES:

1. ENCLOSURE AS SPECIFIED (BY DIV. 28)
2. PEDESTAL AS SPECIFIED (BY DIV. 28)
3. CARD READER AS SPECIFIED (BY DIV. 28)
4. CONCRETE BASE AND CONDUIT STUB UPS (BY DIV. 26)
5. 1 1/4 -INCH SCHEDULE 40 PVC CONDUIT FROM NEAREST MDF/IDF TO THE ACCESS CONTROL LOCATION, SHALL BE SEALED WITH A WATERPROOF MATERIAL (BY DIV 26).
6. 1-INCH SCHEDULE 40 PVC CONDUIT FROM THE ACCESS CONTROL LOCATION TO GATE CONTROLLER, SHALL BE SEALED WITH A WATERPROOF MATERIAL. (BY DIV. 26)



1 / TS-401 SINGLE PEDESTAL MOUNTED CARD READER

SCALE: N.T.S.

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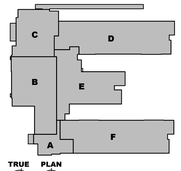

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Sheet Title:

SECURITY TYPICAL DETAILS

TS-401

HPS CITY PLACE - SECURITY SURVEILLANCE SYSTEM SCHEDULE

CAMERA NO.	DEVICE HEIGHT (TO CENTER)	CAMERA TYPE	NOTES
C-E-1	11 FT - 0 IN AFG	EXTERIOR SINGLE LENS	SECURITY CAMERA SHALL BE LOCATED ABOVE THE DOOR BUT BELOW THE CANOPY
C-E-2	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-3	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-4	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-5	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-6	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-7	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-8	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-9	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-10	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-11	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-12	11 FT - 0 IN AFG	EXTERIOR SINGLE LENS	
C-E-13	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-14	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-15	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-16	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-17	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-18	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-19	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-20	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-21	11 FT - 0 IN AFG	EXTERIOR SINGLE LENS	SECURITY CAMERA SHALL BE LOCATED ABOVE THE DOOR BUT BELOW THE CANOPY
C-E-22	10 FT - 0 IN AFG	EXTERIOR 360°	SECURITY CAMERA SHALL BE MOUNTED ABOVE THE DOOR BUT BELOW THE CANOPY
C-E-23	10 FT - 0 IN AFG	EXTERIOR 360°	SECURITY CAMERA SHALL BE MOUNTED ABOVE THE DOOR BUT BELOW THE CANOPY
C-E-24	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-25	10 FT - 0 IN AFG	EXTERIOR SINGLE LENS	SECURITY CAMERA SHALL BE MOUNTED ABOVE THE NEAREST DOOR HEIGHT BUT BELOW THE NEARBY CANOPY
C-E-26	11 FT - 0 IN AFG	EXTERIOR 360°	SECURITY CAMERA SHALL BE MOUNTED ABOVE THE NEAREST DOOR HEIGHT BUT BELOW THE NEARBY CANOPY
C-E-27	11 FT - 0 IN AFG	EXTERIOR 360°	
C-E-28	11 FT - 0 IN AFG	EXTERIOR 360°	
C-1-1	CEILING	INTERIOR SINGLE LENS	
C-1-2	CEILING	INTERIOR SINGLE LENS	
C-1-3	9 FT - 0 IN AFF	INTERIOR 360°	
C-1-4	CEILING	INTERIOR SINGLE LENS	
C-1-5	CEILING	INTERIOR SINGLE LENS	
C-1-6	9 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-7	CEILING	INTERIOR SINGLE LENS	
C-1-8	CEILING	INTERIOR SINGLE LENS	
C-1-8	CEILING	INTERIOR 360°	
C-1-9	CEILING	INTERIOR SINGLE LENS	
C-1-10	CEILING	INTERIOR SINGLE LENS	
C-1-11	CEILING	INTERIOR SINGLE LENS	
C-1-12	CEILING	INTERIOR SINGLE LENS	
C-1-13	11 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-14	11 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-15	11 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-16	11 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-17	CEILING	INTERIOR SINGLE LENS	
C-1-18	9 FT - 0 IN AFF	INTERIOR 360°	
C-1-19	CEILING	INTERIOR SINGLE LENS	
C-1-20	9 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-21	CEILING	INTERIOR SINGLE LENS	
C-1-22	9 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-23	9 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-24	9 FT - 0 IN AFF	INTERIOR SINGLE LENS	
C-1-25	CEILING	INTERIOR 360°	
C-1-26	CEILING	INTERIOR SINGLE LENS	
C-1-27	CEILING	INTERIOR SINGLE LENS	
C-1-28	CEILING	INTERIOR SINGLE LENS	
C-1-29	CEILING	INTERIOR SINGLE LENS	
C-1-30	CEILING	INTERIOR SINGLE LENS	
C-1-31	CEILING	INTERIOR SINGLE LENS	
C-1-32	9 FT - 0 IN AFF	INTERIOR 360°	
C-1-33	CEILING	INTERIOR SINGLE LENS	

HPS CITY PLACE - ACCESS CONTROL SYSTEM SCHEDULE

CARD READER #	DEVICE HEIGHT (TO CENTER)	DOOR TYPE	TERMINATION POINT
CR-E-1	48-INCHES A.F.F	DOUBLE	IDF A104
CR-E-2	48-INCHES A.F.F	DOUBLE	IDF A104
CR-E-3	48-INCHES A.F.F	DOUBLE	SERVER E110A
CR-E-4	48-INCHES A.F.F	DOUBLE	SERVER E110A
CR-E-5	48-INCHES A.F.F	DOUBLE	IDF D121
CR-E-6	48-INCHES A.F.F	SINGLE	IDF D121
CR-E-7	48-INCHES A.F.F	DOUBLE	IDF D121
CR-E-8	48-INCHES A.F.F	DOUBLE	IDF D121
CR-E-9	48-INCHES A.F.F	DOUBLE	SERVER E110A
CR-E-10	48-INCHES A.F.F	DOUBLE	SERVER E110A
CR-1-1	48-INCHES A.F.F	SINGLE	IDF A104
CR-1-2	48-INCHES A.F.F	SINGLE	IDF A104
CR-1-3	48-INCHES A.F.F	SINGLE	IDF A104
CR-1-4	48-INCHES A.F.F	SINGLE	IDF A104
CR-1-5	48-INCHES A.F.F	SINGLE	IDF A104
CR-1-6	48-INCHES A.F.F	SINGLE	SERVER E110A
CR-1-7	48-INCHES A.F.F	SINGLE	IDF D121

HPS CITY PLACE - INTRUSION DETECTION SYSTEM SCHEDULE

INTRUSION DEVICE #	DEVICE HEIGHT (TO CENTER)	DEVICE TYPE	TERMINATION POINT	MOUNTING
MD-1-1	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF A104	WALL
MD-1-2	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF A104	WALL
MD-1-3	96-INCHES A.F.F	MOTION DETECTOR	IDF A104	WALL
MD-1-4	96-INCHES A.F.F	MOTION DETECTOR	IDF A104	WALL
MD-1-5	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF A104	WALL
MD-1-6	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	SERVER E110A	WALL
MD-1-7	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	SERVER E110A	WALL
MD-1-8	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	SERVER E110A	WALL
MD-1-9	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	SERVER E110A	WALL
MD-1-10	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	SERVER E110A	WALL
MD-1-11	96-INCHES A.F.F	MOTION DETECTOR	IDF D121	WALL
MD-1-12	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF D121	WALL
MD-1-13	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF D121	WALL
MD-1-14	96-INCHES A.F.F	MOTION DETECTOR	IDF D121	WALL
MD-1-15	96-INCHES A.F.F	MOTION DETECTOR	IDF D121	WALL
MD-1-16	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF D121	WALL
MD-1-17	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF D121	WALL
MD-1-18	96-INCHES A.F.F	MOTION DETECTOR - LONG RANGE	IDF D121	WALL

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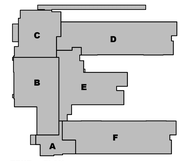

TRUE PLAN KEYPLAN

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SECURITY SCHEDULE

TS-500