



XVI. SITE OBSERVATION BY THE STRUCTURAL ENGINEER

- A. GENERAL
- The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, and procedures, techniques, and sequence.
  - The Engineer shall not have control or charge of, and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.
  - Periodic site observation by field representatives are solely for the purpose of determining if the work of the Contractor is proceeding in accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.

XVII. SPECIAL INSPECTION

- A. GENERAL
- Special inspection is required per Chapter 17 of the International Building Code (IBC).
  - The special inspector shall be a qualified person who shall demonstrate competence to the building official for inspection of the particular type of construction requiring special inspection.
  - Prior to the start of construction, a pre-construction meeting with the architect, engineer, building official, contractor, and special inspectors shall be called to review the special inspection requirements.
- B. DUTIES OF THE SPECIAL INSPECTOR
- Abide by the special inspection and testing agreement provided by the local jurisdiction.
  - Observe the work for conformance with the approved construction documents. All discrepancies shall be brought to the attention of the contractor for correction. Then, if left uncorrected by the contractor, discrepancies shall be brought to the structural engineer, architect, and building department (if required).
  - Furnish inspection reports for each inspection to the building official, architect, engineer, contractor and other designated parties, in a timely manner, as established at the pre-construction meeting.
  - Submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections. The final report shall be signed and sealed by a Professional Engineer responsible for the special inspections.
- C. DUTIES OF THE CONTRACTOR
- Notify the special inspector that the work is ready for inspection at least 24 hours before inspection.
  - The construction or work for which special inspection is required shall remain accessible and exposed for special inspection purposes until completion of the required special inspections.
  - Provide the special inspector with access to approved construction documents at the jobsite.
  - Keep records of all special inspection reports at the jobsite.

- D. DEFINITIONS
- Continuous special inspection – Special inspection by the special inspector who is continuously present when and where the work to be inspected is being performed.
  - Periodic special inspection – Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.

E. WORK THAT REQUIRES SPECIAL INSPECTION

ITEM	REMARKS
Grading, Excavations, Fill	Refer to Geotechnical Report
Bearing Stratum Verification	Refer to Geotechnical Report
Driven Piles	Continuous
Concrete - Verify Proper Mix Design	Periodic
Concrete - Concrete Placement	Continuous
Concrete - Rebar Placement	Inspect Final Placement
Concrete - Rebar Welding	Periodic
Concrete - Anchor Bolts and Plates	Inspect Final Placement
Concrete - Expansion Anchors	Periodic
Concrete - Epoxy	Periodic
Concrete - Formwork	Periodic
Masonry - Grout Placement	Continuous
Masonry - Unit & Reinforcement Placement	Periodic
Steel - Verify Cold-Formed Deck Material	Periodic
Steel - Deck & Reinforcement Welding	Periodic
Structural Steel - Fillet Welds (Visual Inspection of All Welded Joints)	Periodic
Structural Steel - Partial or Full Penetration Welds (Non Destructive Testing of All Welded Joints)	Periodic
Structural Steel - Bearing Bolts	Periodic
Structural Steel - Composite Shear Studs	Periodic
Structural Steel - Size and Location of Structural Elements	Periodic
Structural Steel - Slip Critical Connections	Periodic
Structural Steel - Inspection of Frame Joint Details for Compliance with Approved Construction Documents	Periodic

XVIII. CONCRETE MASONRY

- A. SPECIFICATION
- All specifications shall be as noted below, unless noted otherwise in the drawings.
  - All masonry materials and construction shall conform to the recommendations of the Brick Institute of America (BIA) and National Concrete Masonry Association (NCMA) and masonry codes noted in these general notes.
  - All concrete masonry units (CMU) shall conform to ASTM C90, Type 1, Grade N.
    - CMU shall be medium weight or light weight (less than 125 PCF, oven dry weight).
    - Masonry units shall have a minimum compressive strength of 2,800 psi on the net area at 28 days.
    - The minimum net area compressive strength of masonry (f<sub>m</sub>) shall be 2,000 psi as determined by the unit strength method or by the prism test method.
    - All masonry units shall be placed in running bond.
  - All mortars and materials therein shall conform to ASTM C270, Type S except for masonry in contact with earth which shall be Type M.
    - Mortar shall have minimum average compressive strength of 1,800 psi for Type S, or 2,500 psi for Type M.
  - Grout shall conform to ASTM C476.
    - Grout shall attain a minimum 28 days compressive strength of 2,000 psi.
    - All grout shall be fine grout containing sand, Portland cement, and lime (optional) for grout spaces less than 2 inches in any horizontal direction, unless specified otherwise.
  - Control joints shall be located per Architectural drawings and specifications and at a maximum spacing of 40 feet on centers unless noted otherwise in the architectural drawings. Control joints shall not be located over or through lintels.
- B. REINFORCEMENT
- Provide horizontal reinforcing (truss or ladder type, 9 gauge) at 16 inches on center for all CMU walls. Reinforcement shall conform to ASTM A1064 and shall be hot dip galvanized.
  - All horizontal reinforcing steel in bond beams and lintel block units shall be continuous. Units shall be solidly grouted. Provide 48 times bar diameter lap for horizontal reinforcing in bond beams. No splices shall be provided for horizontal reinforcing in block lintels.
  - Grout cells solid where vertical bars are shown on the drawings. Vertical bars shall extend from bottom to the top of the wall. Provide 48 times bar diameter splice for vertical bars where required and/or shown on the Drawings.
  - All reinforced masonry walls with openings up to four (4) feet wide, shall have one vertical bar minimum at each side of openings. For openings larger than 4 feet wide, provide two (2) vertical bars at each side of openings. Reinforcing at edges of opening shall match typical vertical wall reinforcing (unless noted otherwise) and shall extend to the top of wall.
  - All reinforced masonry wall corners and intersections shall have one vertical bar (minimum) in grouted cell. Reinforcing shall match typical wall vertical reinforcement.
  - Provide one vertical bar (minimum) in the first cell each side of control joints. Reinforcing shall match typical vertical wall reinforcing (unless noted otherwise) and shall extend to the top of wall.
  - Provide a bond beam at the top of all CMU walls reinforced with (2) - #5 continuous unless noted otherwise.

C. INTERIOR (NON-LOAD BEARING) CMU WALL REINFORCING

- See typical details for interior wall height, bracings and reinforcing requirements.

XIX. PRE-ENGINEERED BUILDING

- A. GENERAL
- All roof components including purlins and building frame shall be designed by metal frame supplier. All other steel members shall be designed by the metal building supplier, unless shown on the structural construction documents.
  - All designs shall conform to AISC, AISI and MBMA standards (latest edition).
  - All roof deck systems shall conform to the UL wind-uplift rating of Class 90.
  - All building frames shall be designed for a maximum horizontal deflection of **H/200** under lateral loads specified in Section III.C (H = height of building frame).
  - Roof frame members shall be designed for a maximum deflection of **L/180** for live load and **L/120 (no ceiling)** for total load.
  - Roof purlin members shall be designed for a maximum live load deflection of **L/180**. Wall girt members shall be designed for a maximum wind load deflection of L/90.
  - Reactions of beams designed by the structural engineer are indicated on the drawings. Connections of these members shall be designed by the metal building supplier. The metal building supplier shall take these reactions into account in the design of members supporting these elements.
  - All purlins shall be designed for dead loads shown on Architectural Drawings. The minimum collateral load shall be 10 psf. (c/g + mech)
  - Building frames shall be designed for the lateral stability of the building in both directions. See the drawings for locations of portal frames to be provided by the metal building supplier.
  - Foundation design is based on the roof loadings specified by the MBMA and any other additional loads imposed by the building use. Submit reactions from metal building frame to confirm the design of footings. General Contractor shall confirm footing sizes with the Structural Engineer after actual reactions are received from the metal building frame supplier.
  - Submit shop drawings for building metal building frames, including all connections. All shop drawings shall be sealed and signed by a Professional Engineer registered in the state where the Project is located.
  - All welding shall be in conformance with the requirements of AWS.
  - The foundation has been designed assuming that rigid frames are pinned at the base. The footings have not been designed for moments due to fixity at the base.
  - The design of the pre-engineered metal building shall consider additional loads of items supported by the structure. This includes, but is not limited to, mechanical equipment, operable partitions, curtains, sprinkler pipes, etc.
  - All pre-engineered metal building elements shall be designed to fit inside the architectural elements. For example, at building frame columns, bracing elements can only be used if they do not interfere with the architectural column covers.
  - The metal building supplier shall be responsible for the overall lateral stability of the structure.

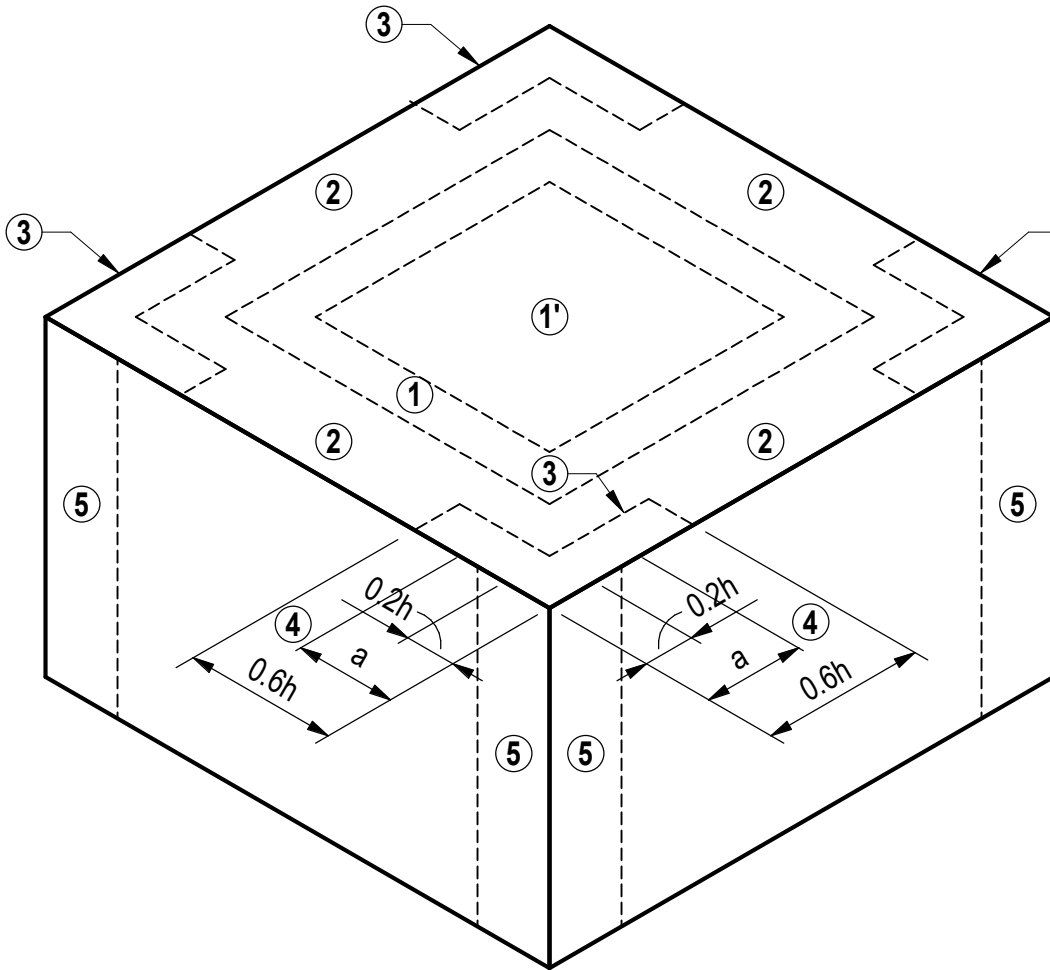
ASCE 7-22 ROOF DESIGN WIND PRESSURE (PSF)							
ZONE	EFFECTIVE WIND AREA (FT <sup>2</sup> )						
	10	20	50	100	200	500	1000
1'	39.0	36.6	33.4	30.9	30.9	30.9	30.9
	-152.88	-142.80	-129.47	-119.38	-109.29	-95.96	-16.00
1	39.0	36.6	33.4	30.9	30.9	30.9	30.9
	-87.8	-87.8	-87.8	-87.8	-75.6	-59.4	-47.17
2	39.0	36.6	33.4	30.9	30.9	30.9	30.9
	-201.7	-188.7	-171.6	-158.6	-145.6	-128.5	-128.49
3	39.0	36.6	33.4	30.9	30.9	30.9	30.9
	-274.9	-248.9	-214.6	-188.7	-162.8	-128.5	-128.49

ZONE WIDTHS		
a	0.6h	0.2h
11'-6"	11'-6"	3'-9"

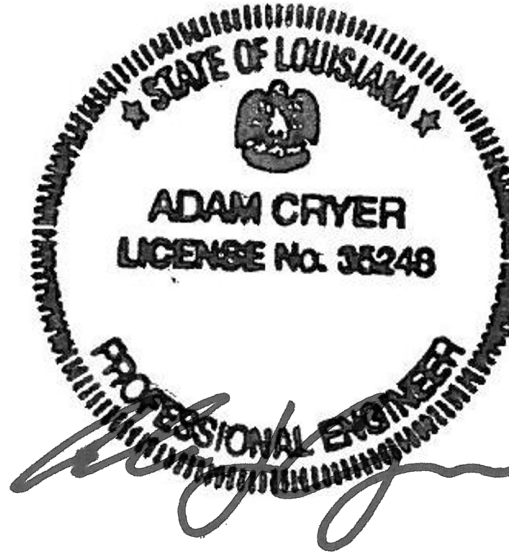
ASCE 7-22 WALL DESIGN WIND PRESSURE (PSF)							
ZONE	EFFECTIVE WIND AREA (FT <sup>2</sup> )						
	10	20	50	100	200	500	
4	87.8	84.2	79.0	74.7	71.0	65.9	
	-95.1	-91.5	-86.4	-82.0	-78.3	-73.2	
5	87.8	84.2	79.0	74.7	71.0	65.9	
	-117.1	-109.1	-98.8	-91.5	-83.4	-73.2	

NOTES:

- ALL BUILDING COMPONENTS, CLADDING, FINISHES AND CONNECTIONS SHALL BE DESIGNED FOR WIND PRESSURES INDICATED FOR THE CORRESPONDING ZONE. CALCULATIONS AND/OR DESIGN DATA MUST BE AVAILABLE FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD IF REQUIRED.
- POSITIVE AND NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACE, RESPECTIVELY.
- WIND PRESSURES MAY BE MULTIPLIED BY 0.6 FOR SERVICE LEVEL (ASD) LOADS.
- LINEAR INTERPOLATION BETWEEN VALUES OF EFFECTIVE WIND AREA IS PERMISSIBLE.
- ZONE WIDTH INCLUDES OVERHANG.
- ALL PARAPETS SHALL BE DESIGNED IN ACCORDANCE WITH THE WIND PRESSURES DETERMINED FROM FIGURE 30.6-1 OF ASCE 7-22.
- FOR JOIST UPLIFT DESIGN, 10 PSF DEAD LOAD SHALL BE USED FOR NET UPLIFT DETERMINATION. NET UPLIFT SHALL BE DETERMINED WITH THE FOLLOWING ASD OR LRFD LOAD COMBINATION: 0.6D+0.6W OR 0.9D+1.0W



FLAT ROOF - SLOPE < 7°  
(ROOF HEIGHT LESS THAN 60 FEET)



DIGITALLY SIGNED: 03/04/2025

VG CP2 CHEMICAL STORAGE BUILDING

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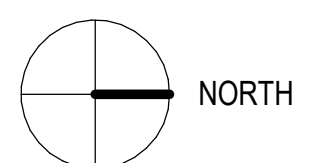
REV	DATE	DESCRIPTION
0	03/04/2025	ISSUED FOR CONSTRUCTION

EA PROJECT NUMBER: 24052  
ARCHITECT:  
LICENSE #:

GENERAL NOTES

S-002

SECURITY CLASS: COMPANY USE  
C2-099700-STR-NOT-ENA-00002-002


$$\frac{1}{8}'' = 1'-0''$$

PLAN NOTES:

1. ALL PILE CAPS SHALL BE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PILE CAPS UNDER GRADE BEAMS (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS.
3. LOCATIONS NOTED: PC-1 INDICATES PILE CAPS. SEE PILE CAP SCHEDULE FOR SIZE.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR SLOPES, DEPRESSIONS, LEDGES, ETC.  
REF. ENLARGED PLANS 1 & 2/S-102 FOR TYPICAL SLAB F.F. ELEVATIONS AND ADDITIONAL DIMENSIONS.
5. SEE DETAILS FOR SLAB THICKNESS AND CARTON FORM INFORMATION.

LEGEND:

T.O.P. = TOP OF PILE CAP ELEVATION MEASURED FROM FINISH FLOOR ELEVATION = 0'-0".

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[illegible]

EA PROJECT NUMBER: 24052  
ARCHITECT:  
LICENSE #:

**S-101**

SECURITY CLASS: COMPANY USE  
-099700-STR-BLD-ENA-00002-001

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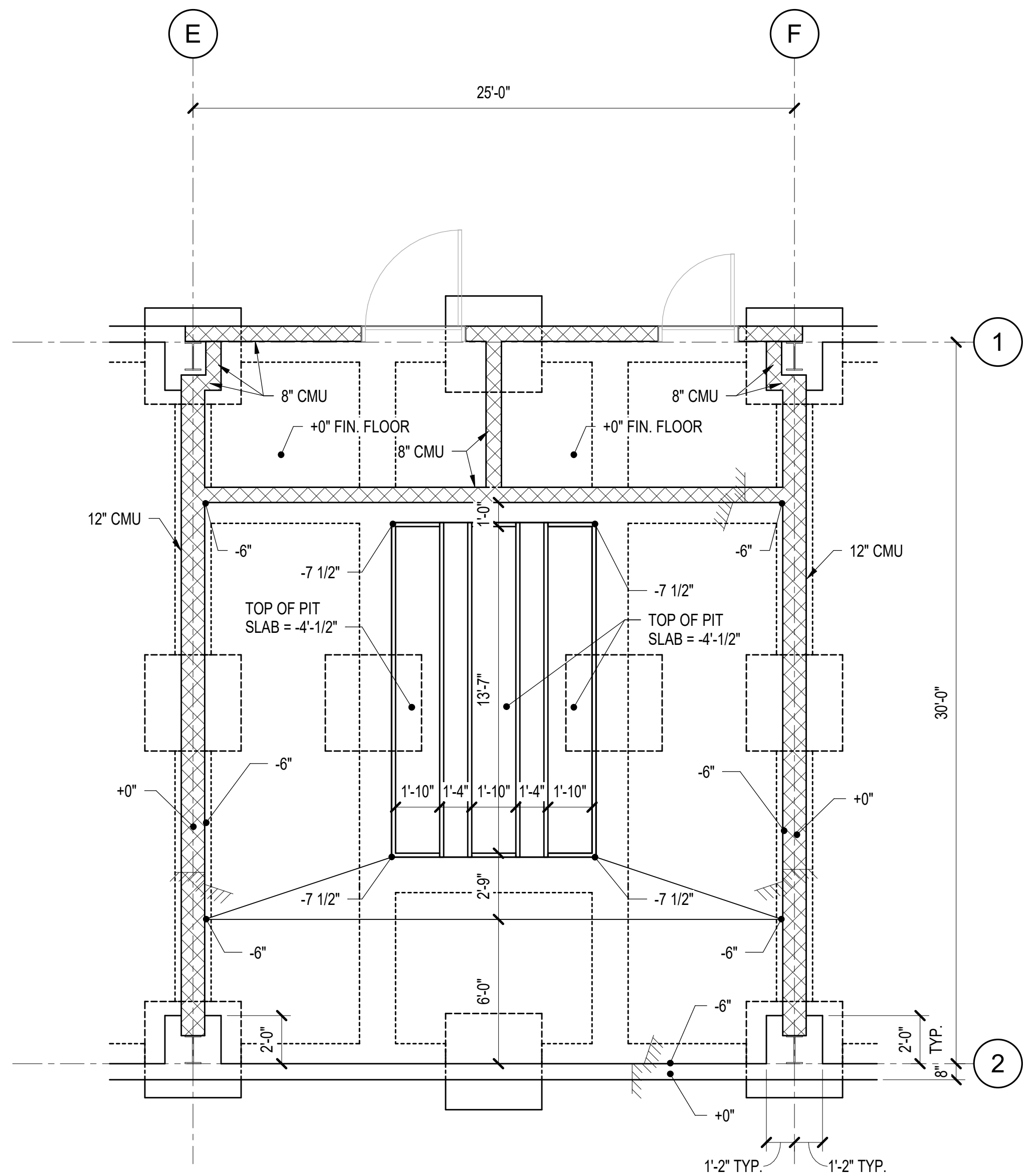
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EA PROJECT NUMBER: 24052  
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LICENSE #:

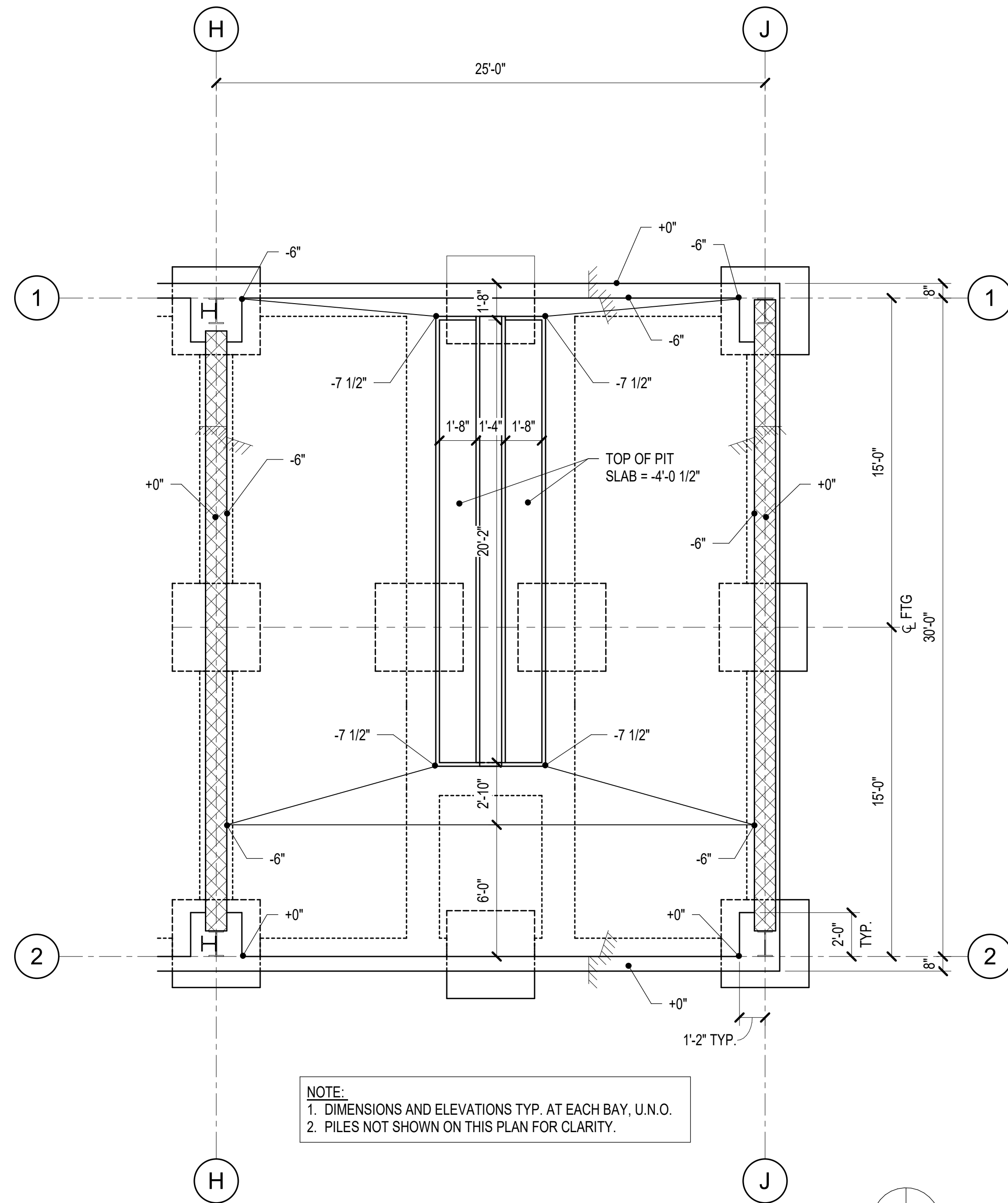
ENLARGED FOUNDATION  
PLANS

**S-102**

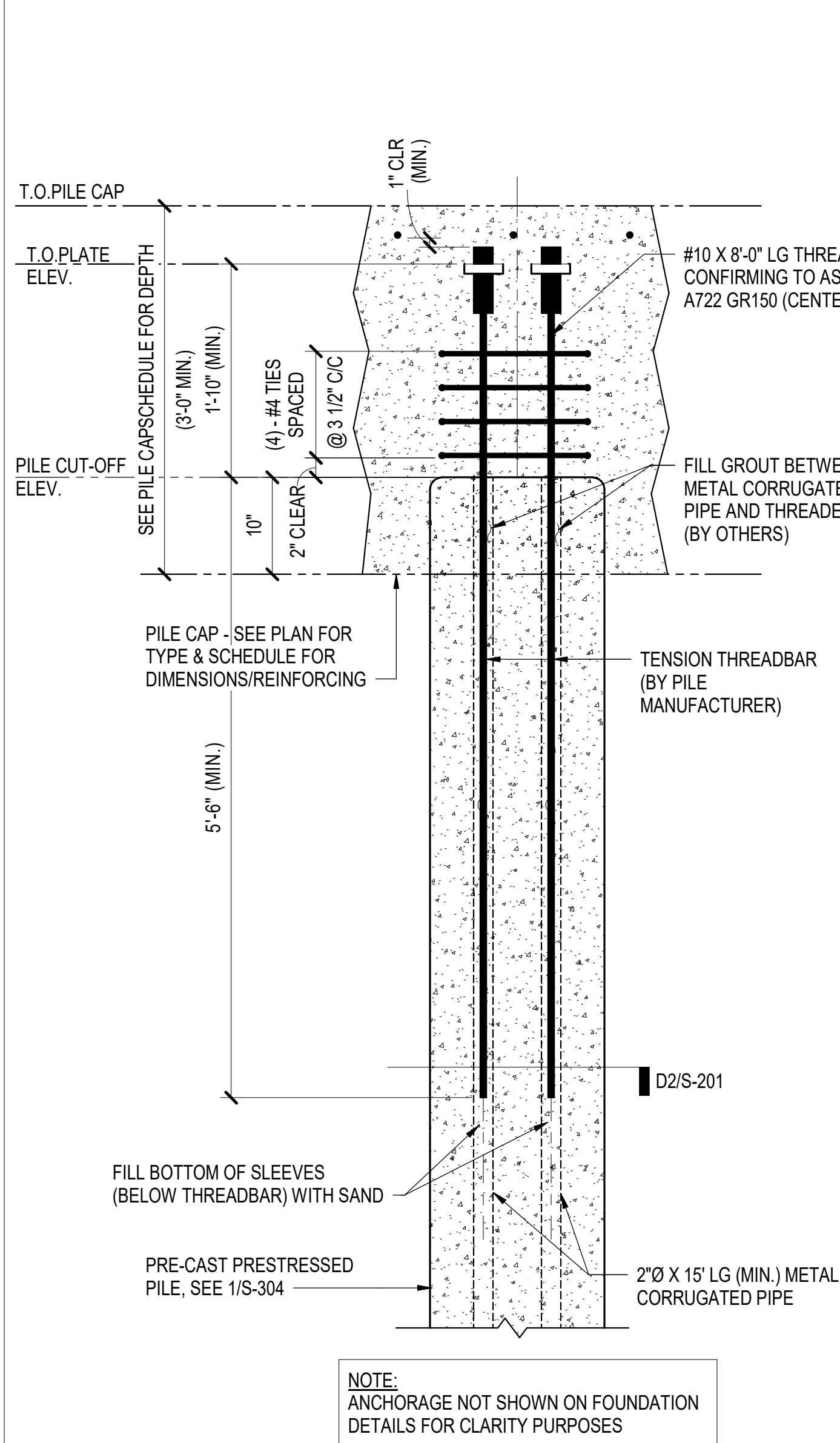
SECURITY CLASS: COMPANY USE  
C2-099700-STR-BLD-ENA-00002-002



2 ENLARGED LEVEL 1 FLOOR PLAN  
1/4" = 1'-0"



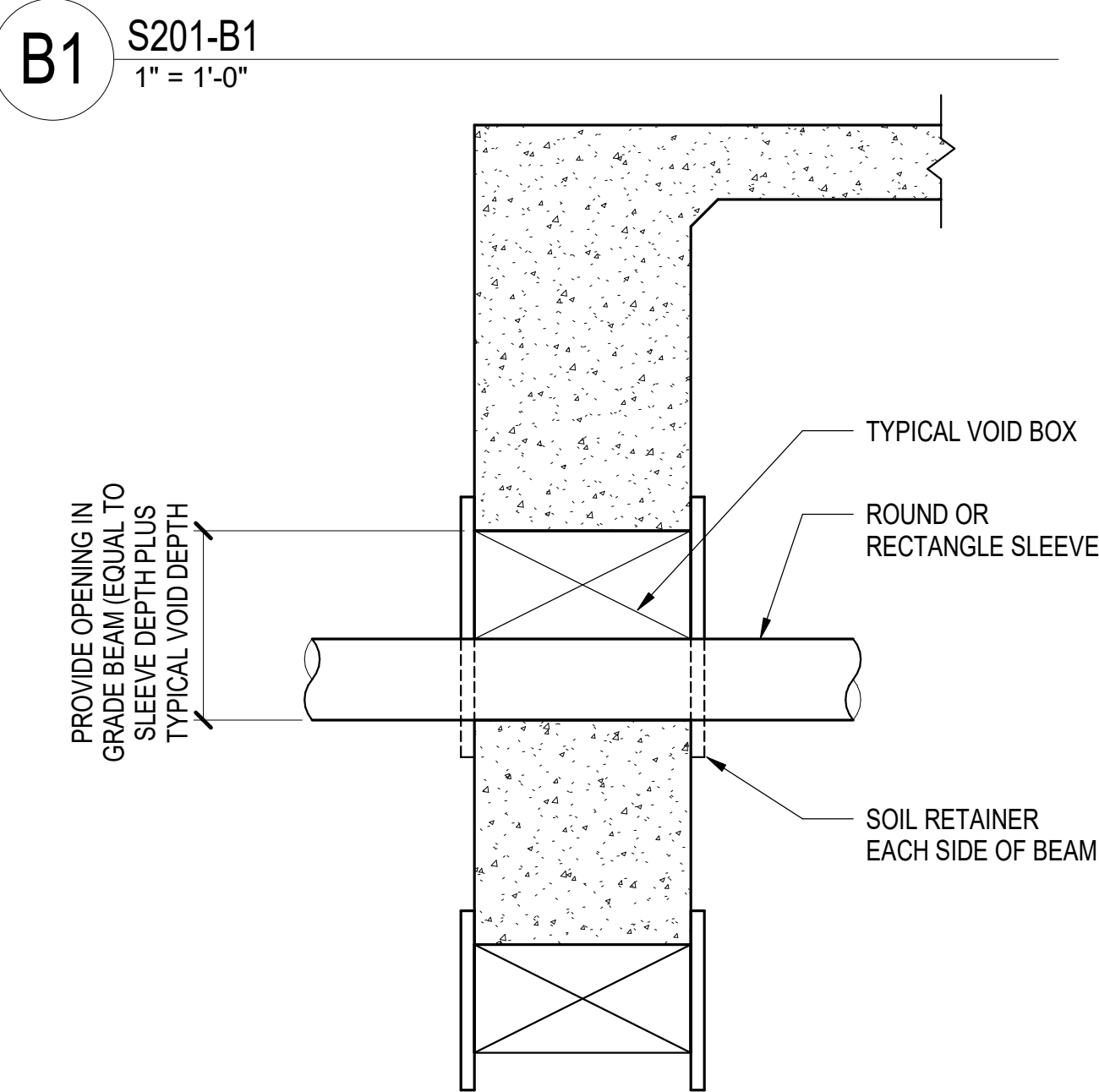
1 ENLARGED LEVEL 1 FLOOR PLAN  
1/4" = 1'-0"



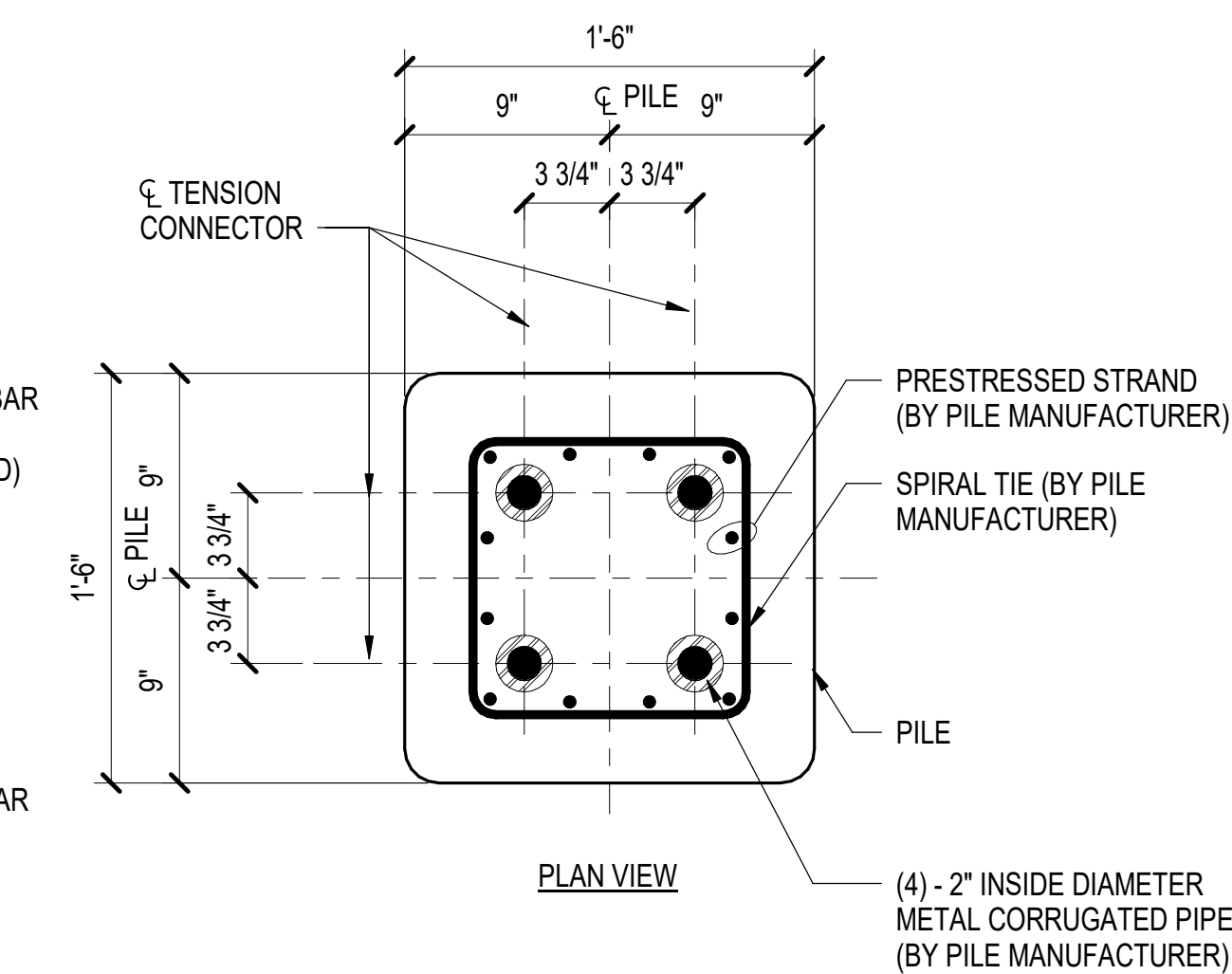
**C1** TYPICAL DETAIL - PRECAST PILE ANCHORAGE  
1" = 1'-0"

CONCRETE SLAB SCHEDULE			
SLAB TYPE	SLAB THICKNESS	PRIMARY REINF. (SHORT DIRECTION)	SECONDARY REINF. (LONG DIRECTION)
VARIES (12" MIN.)		#6 @ 12" O.C. (TOP & BOT.)	#5 @ 15" O.C. (TOP & BOT.)

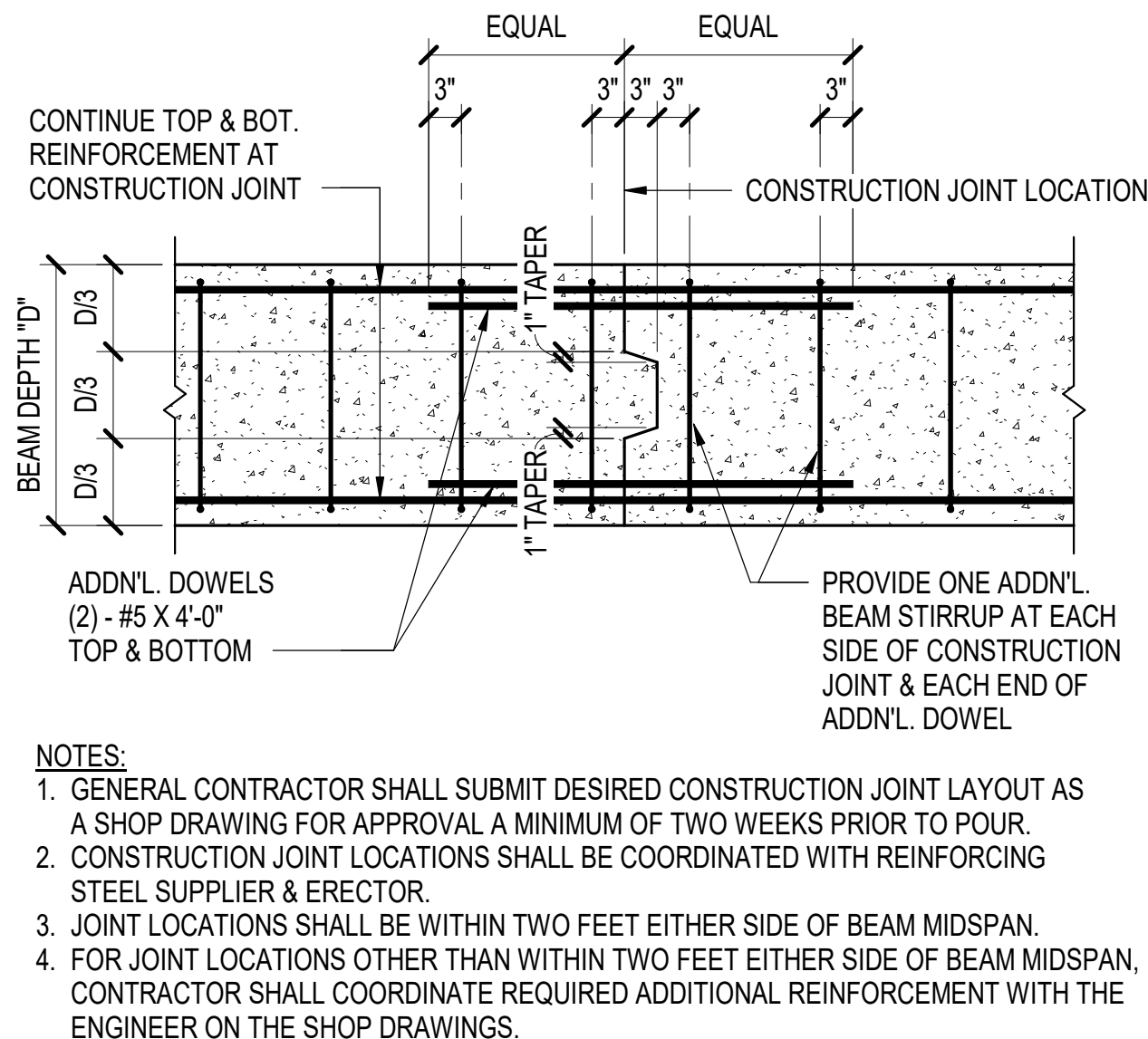
- NOTES:**
- SECONDARY BARS SHALL BE CONTINUOUS OVER THE SUPPORTS. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF THE SLAB.
  - SECONDARY BARS SHALL BE SPICED, IF REQUIRED, AT THE CENTER OF SPANS ONLY. LAP SPICE SHALL BE CLASS B.
  - PRIMARY BARS SHALL BE CONTINUOUS IN SPAN. EXTEND ALL BOTTOM BARS 6" (MINIMUM) INTO SUPPORTING BEAMS.
  - SEE TYPICAL DETAIL FOR THE PLACEMENT OF BARS LONG & SHORT WAYS.
  - LOCATIONS SHOWN THUS: ON PLAN INDICATES THE DIRECTION OF SHORT WAY REINFORCING STEEL.



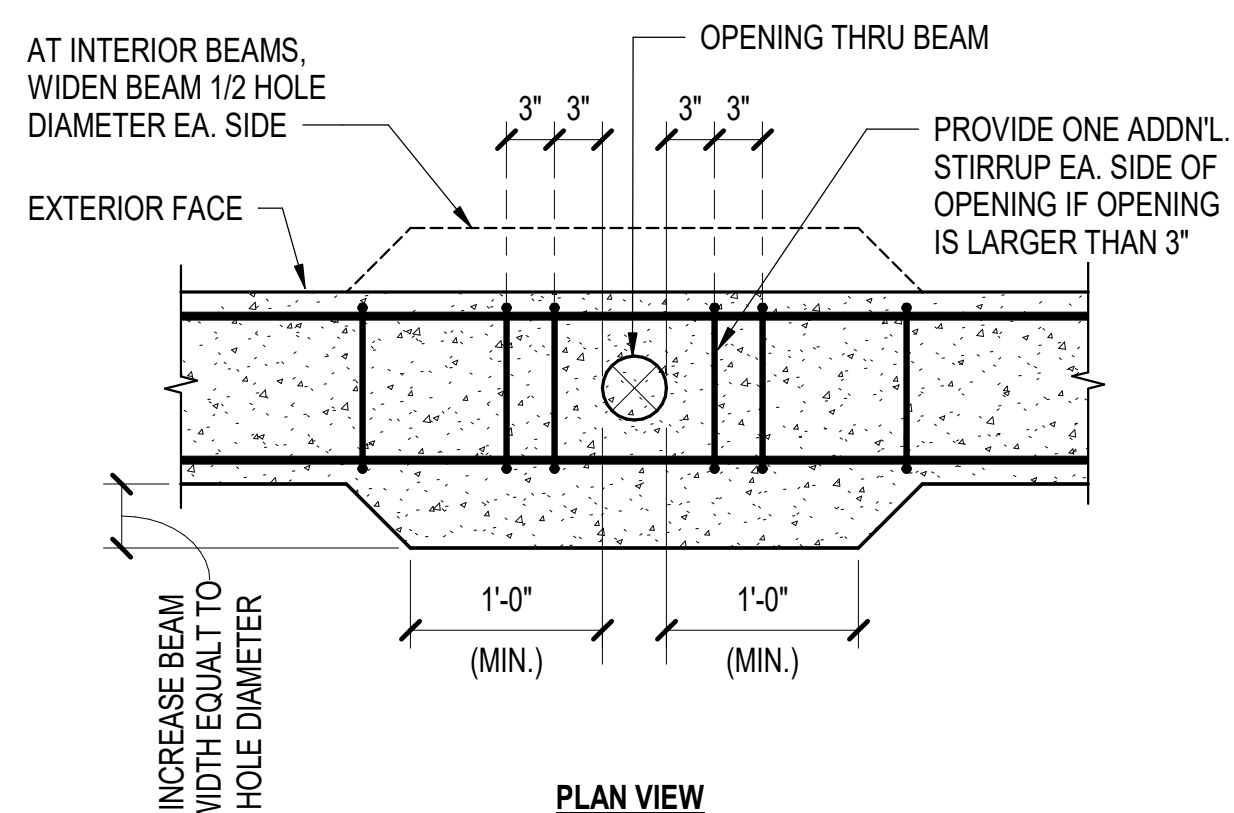
**A1** TYPICAL DETAIL SLEEVE THRU GRADE BEAM  
1" = 1'-0"



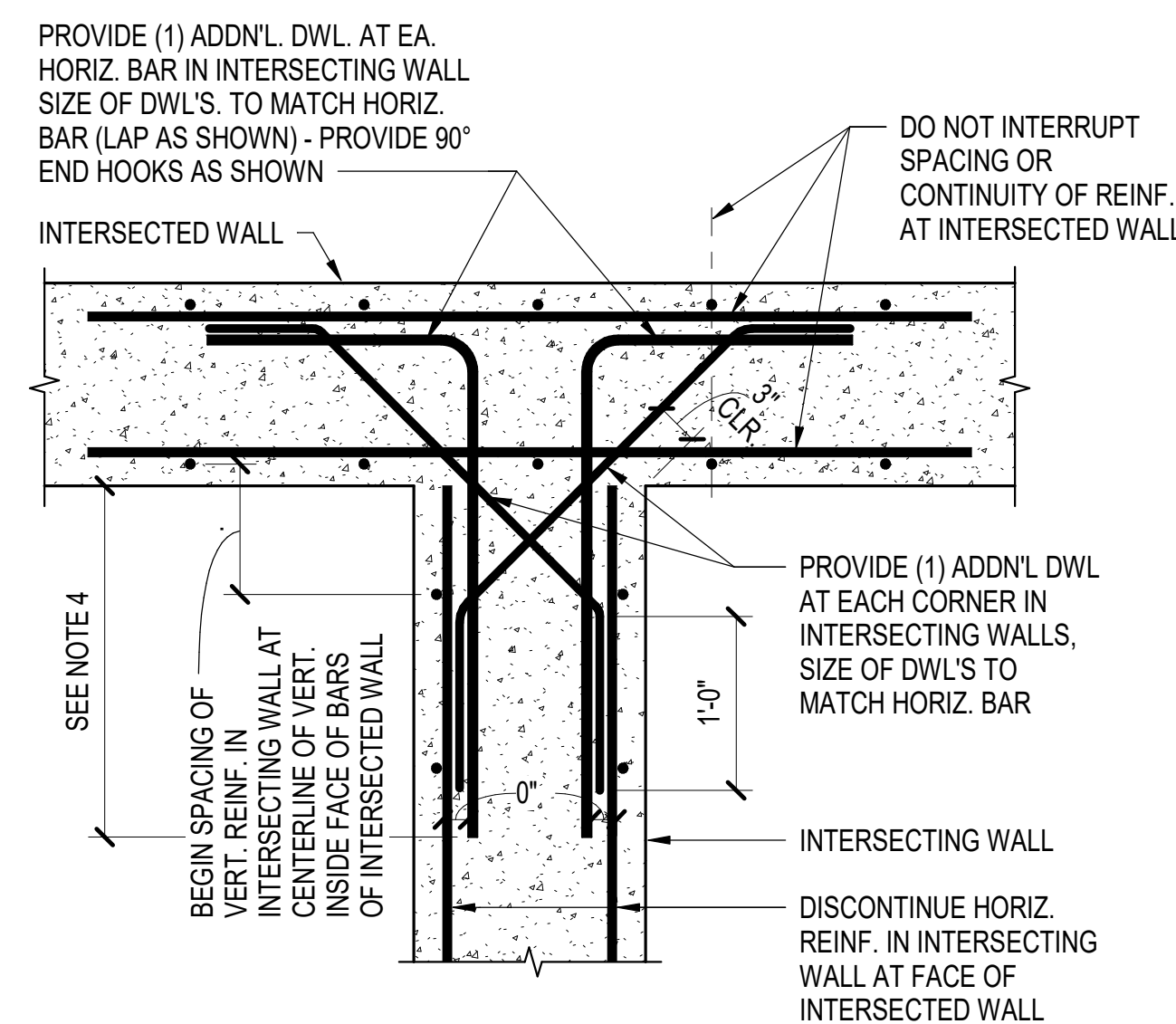
**D2** TYPICAL DETAIL - 18" SQUARE PRE-CAST PRESTRESSED CONCRETE PILE  
1 1/2" = 1'-0"



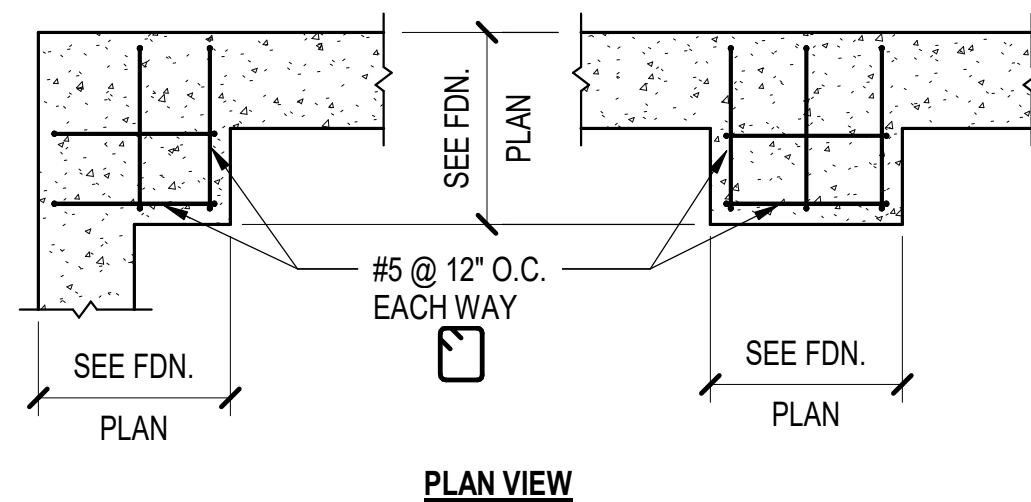
**C2** TYPICAL DETAIL GRADE BEAM CONSTRUCTION JOINT  
3/4" = 1'-0"



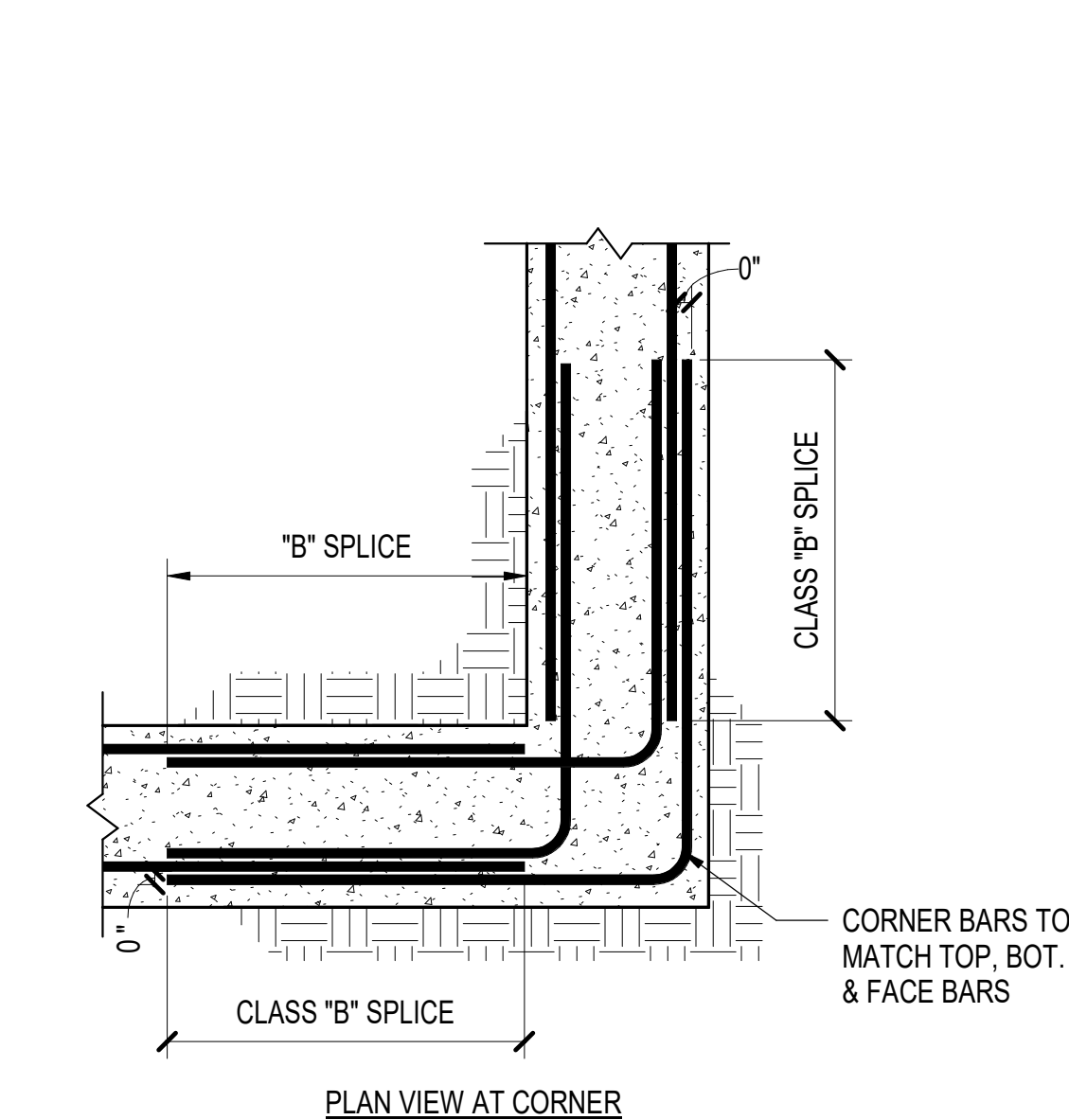
**B2** TYPICAL DETAIL VERTICAL HOLE THRU GRADE BEAM LARGER THAN 3" DIAMETER  
1" = 1'-0"



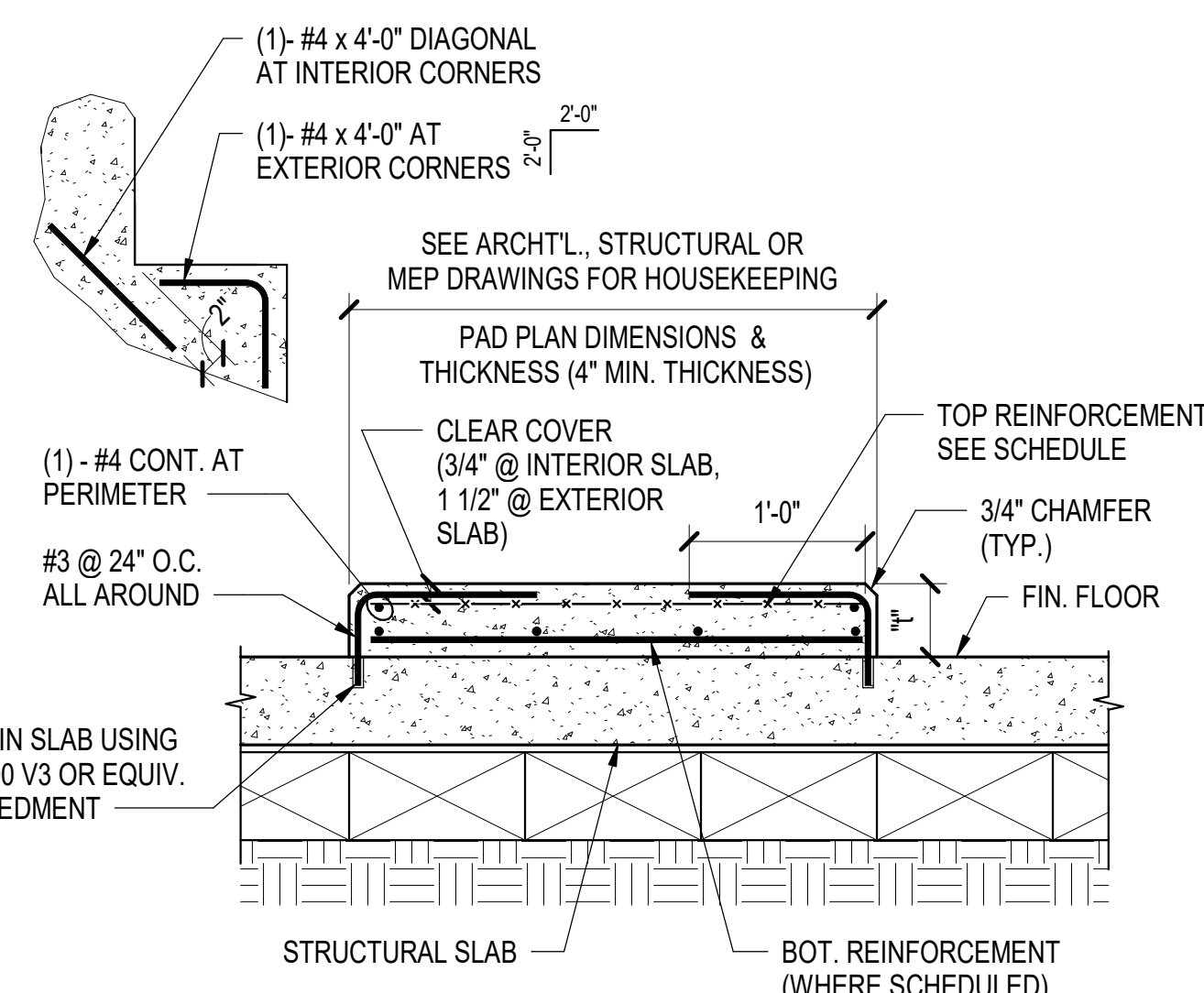
**A2** TYPICAL DETAIL - CONCRETE WALL REINF. STEEL SPLICE AT "TTT" INTERSECTION (PLAN VIEW)  
1" = 1'-0"



**D3** TYPICAL DETAIL - ADDITIONAL BARS AT WIDENED GRADE BEAM  
1/2" = 1'-0"



**C4** TYPICAL DETAIL AT FLOOR DEPRESSIONS  
3/4" = 1'-0"

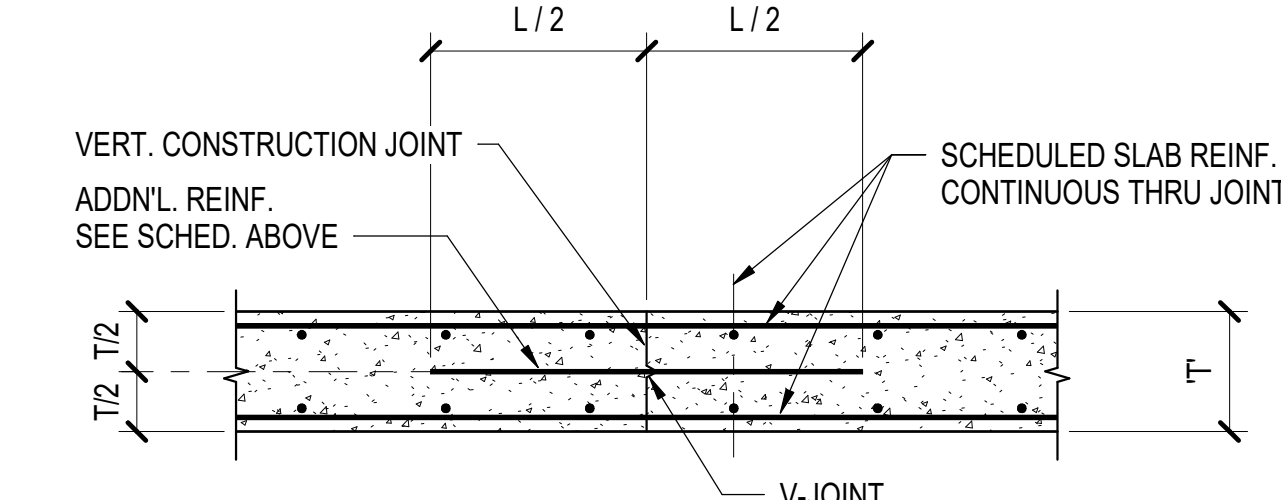


HOUSEKEEPING PAD REINF. SCHEDULE		
PAD THICKNESS	TOP REINFORCEMENT	BOT. REINFORCEMENT
1' ≤ 4"	6 X 6 - W2.9 X W2.9	NONE
4' < 1' ≤ 6"	4 X 4 - W4.0 X W4.0	NONE
6' < 1' ≤ 8"	4 X 4 - W5.5 X W5.5	NONE
8' < 1' ≤ 12"	#4 @ 12" O.C. EACH WAY	#3 @ 18" O.C. EACH WAY
12' < 1' ≤ 16"	#4 @ 12" O.C. EACH WAY	#4 @ 12" O.C. EACH WAY

- NOTES:**
- GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS & SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB-ON-GRADE & PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS & OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.
  - GENERAL CONTRACTOR SHALL NOTIFY ENGINEER OF ALL HOUSEKEEPING PAD LOCATION & THICKNESS PRIOR TO INSTALLATION.

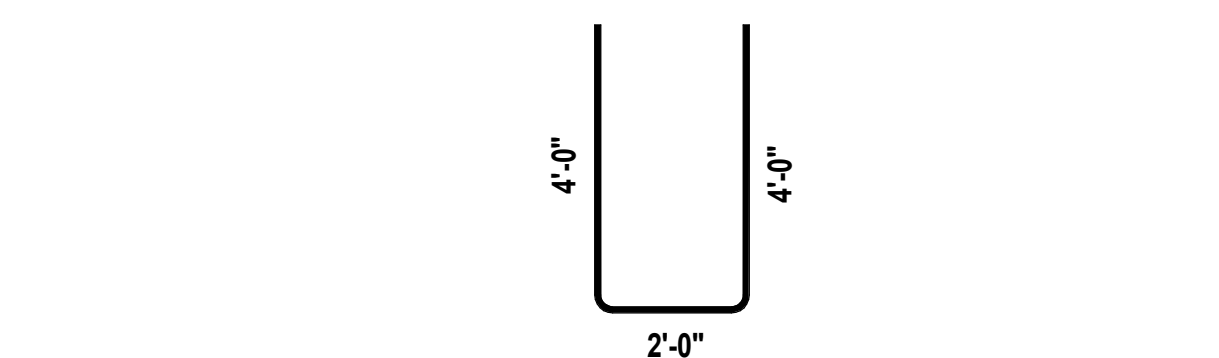
**B4** TYPICAL DETAIL - CONC. ISLAND OR HOUSEKEEPING PAD SLAB-ON-GRADE  
1" = 1'-0"

ADDITIONAL REINFORCEMENT SCHEDULE	
Fy = 60 KSI	
SLAB THICKNESS ("T")	REINFORCEMENT
T ≤ 4"	#4 @ 18" O.C. X 2'-6"
4" < T ≤ 6"	#4 @ 12" O.C. X 2'-6"
6" < T ≤ 8"	#5 @ 12" O.C. X 3'-0"
8" < T ≤ 12"	#6 @ 12" O.C. X 3'-8"

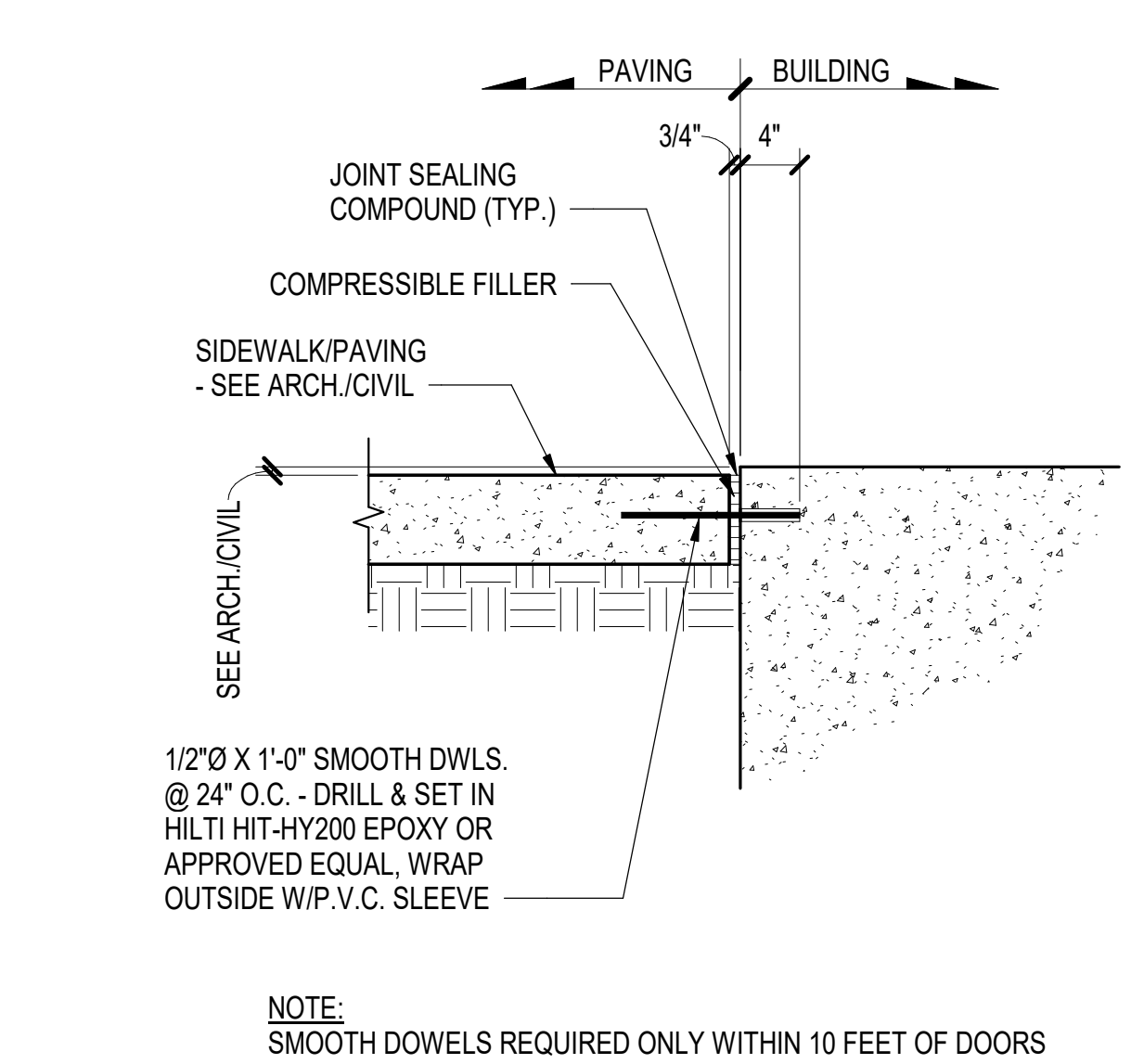


- NOTES:**
- CONSTRUCTION JOINTS SHOULD BE LOCATED ON THE MIDDLE THIRD OF THE SLAB SPAN.
  - CONCRETE SURFACE AT CONSTRUCTION JOINT SHALL BE CLEAN & FREE OF LAITANCE.

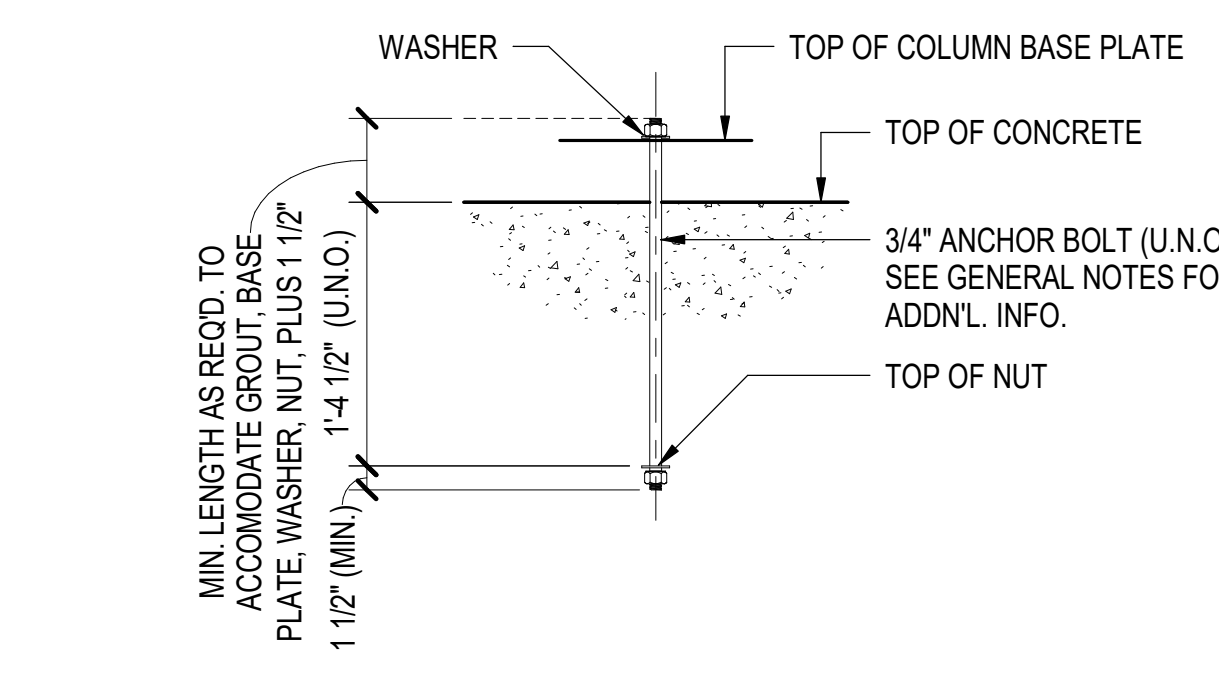
**A4** TYPICAL DETAIL CONSTRUCTION JOINT CONCRETE STRUCTURAL SLAB  
3/4" = 1'-0"



**D5** TYPICAL HAIRPIN DETAILS  
3/8" = 1'-0"

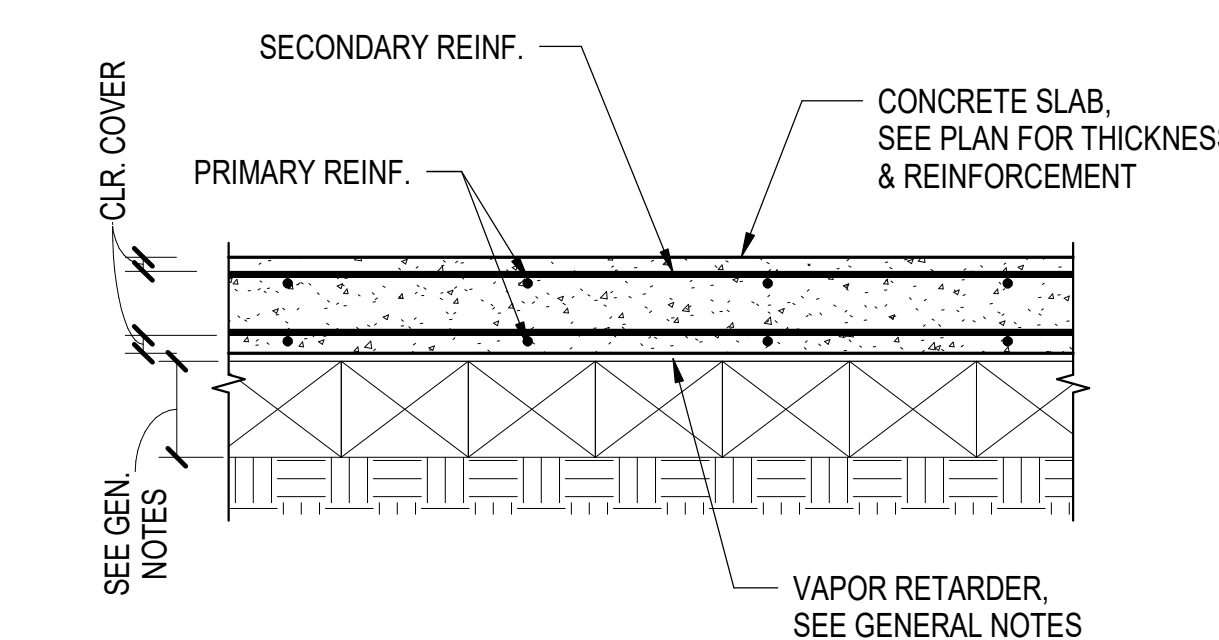


**C5** TYPICAL DETAIL - DOWELS TO FLATWORK  
1" = 1'-0"



- NOTES:**
- ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GR. 36, U.N.O.
  - VERIFY REQUIRED DIAMETER OF ANCHOR BOLTS WITH PEMB SUPPLIER
  - ANCHOR BOLTS SHALL BE GALVANIZED AT GALVANIZED PEMB FRAME COLUMNS & AT EXTERIOR CONDITIONS. COORDINATE WITH PEMB SUPPLIER

**B5** TYPICAL DETAIL - ANCHOR BOLTS  
1" = 1'-0"



- NOTES:**
- UNLESS SPECIFIED ELSEWHERE, VAPOR RETARDER SHALL BE A MINIMUM OF 15 MILS THICK MEETING OR EXCEEDING ASTM E-1745, CLASS A, & HAVE NO MORE THAN 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E-96.

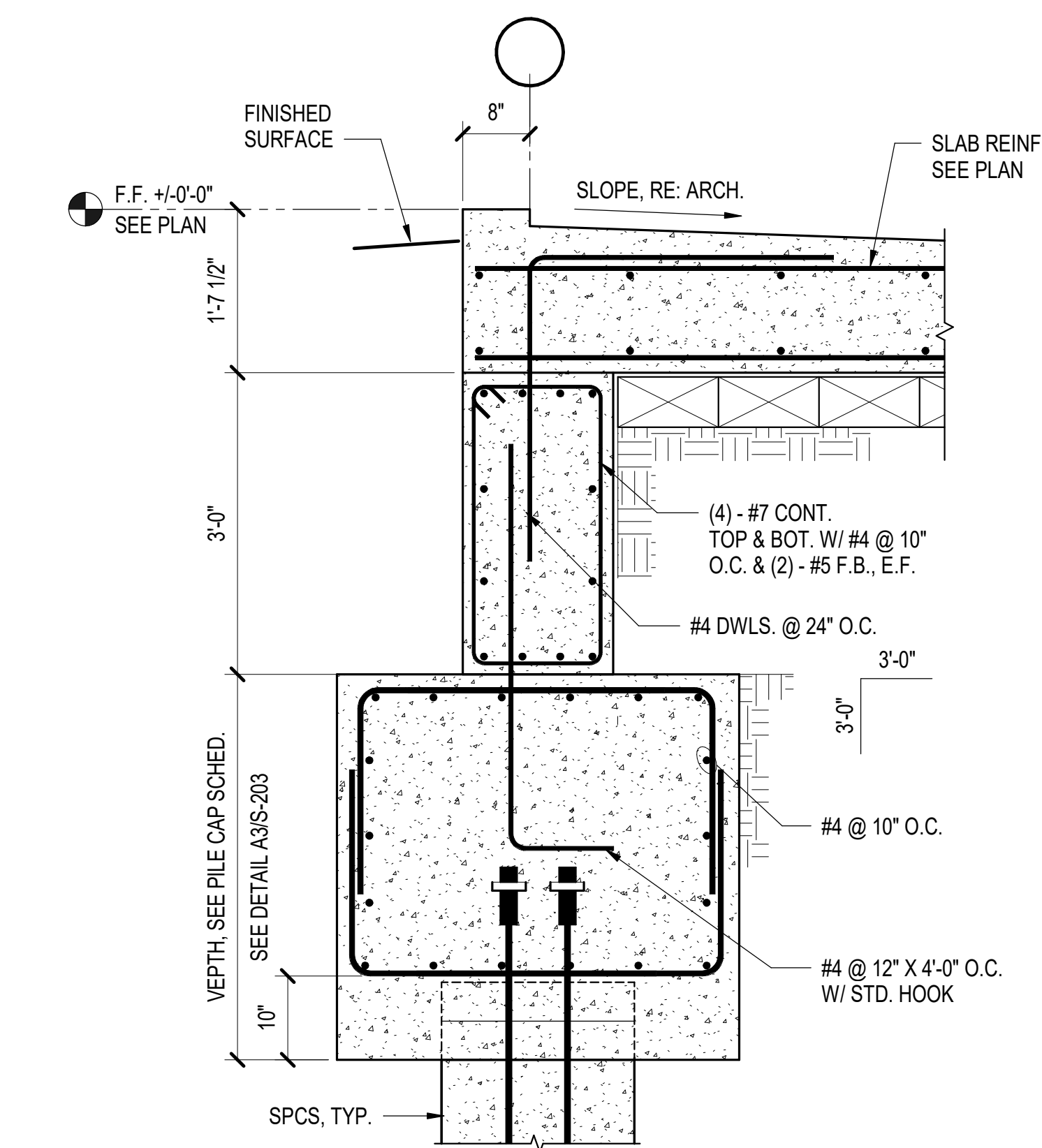
**A5** TYPICAL DETAIL - SLAB WITH VOID FORMS (DOUBLE LAYER REINFORCEMENT)  
1" = 1'-0"

REV	DATE	DESCRIPTION
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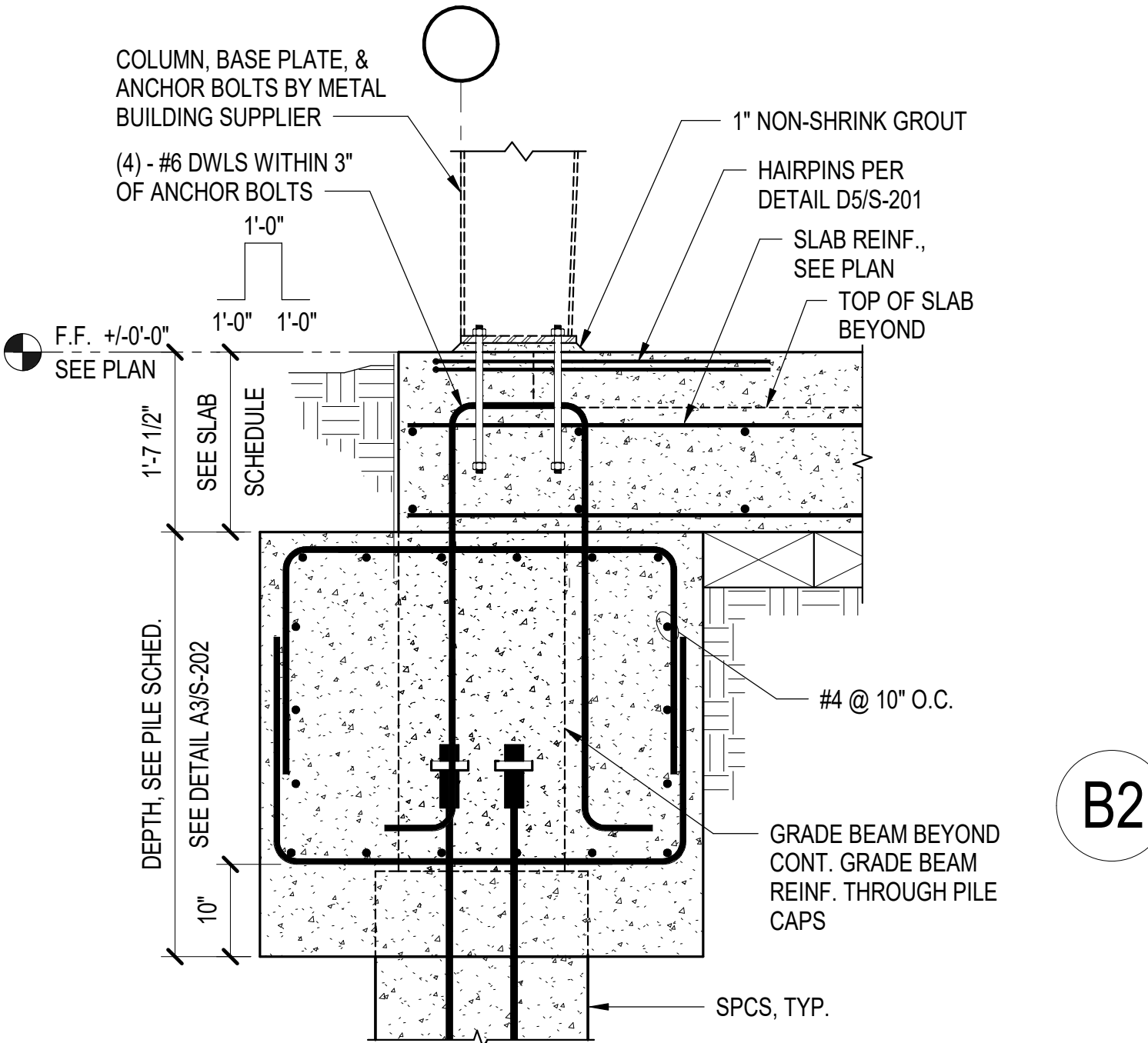
EA PROJECT NUMBER: 24052  
ARCHITECT:  
LICENSE #:

VG CP2 CHEMICAL STORAGE BUILDING

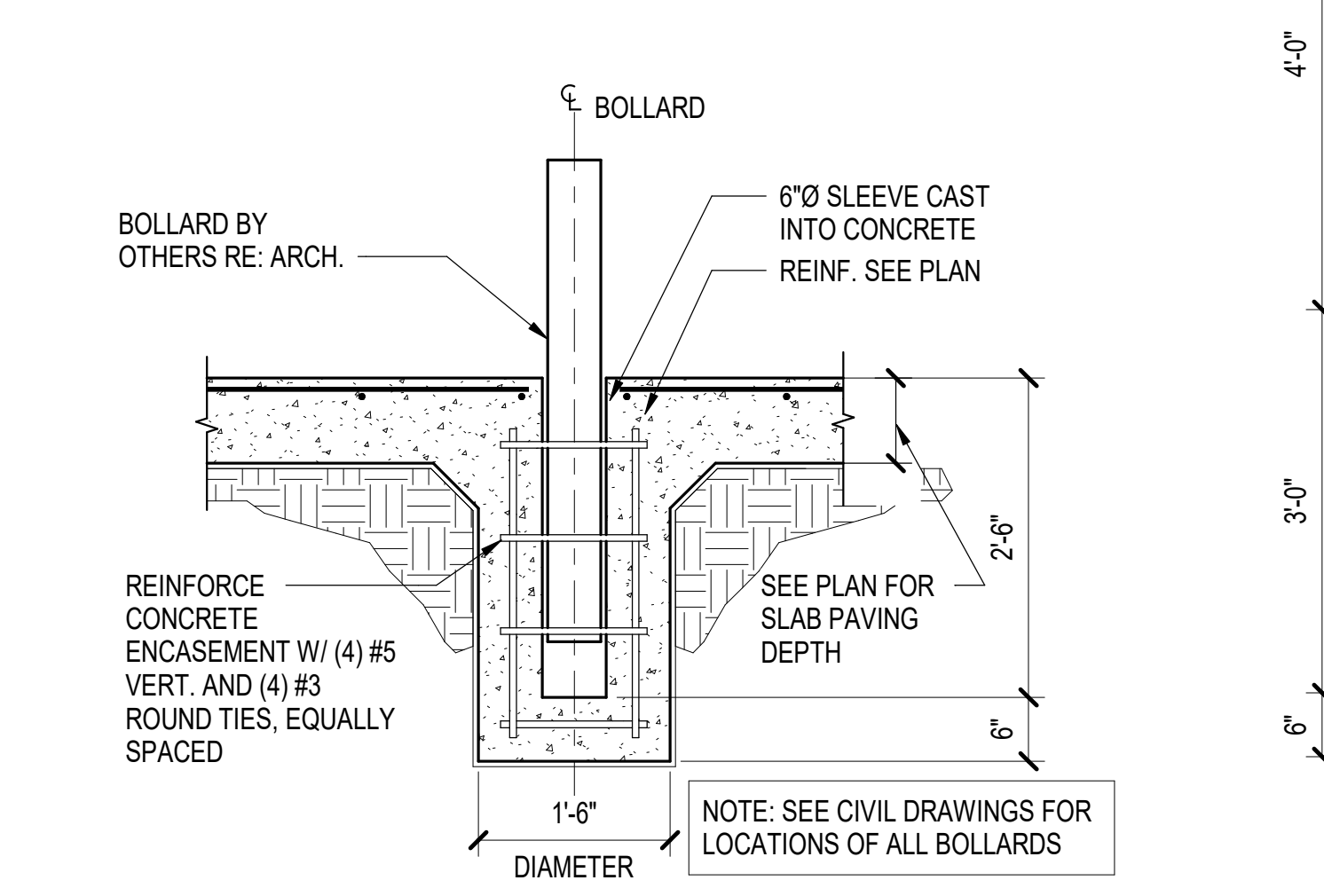
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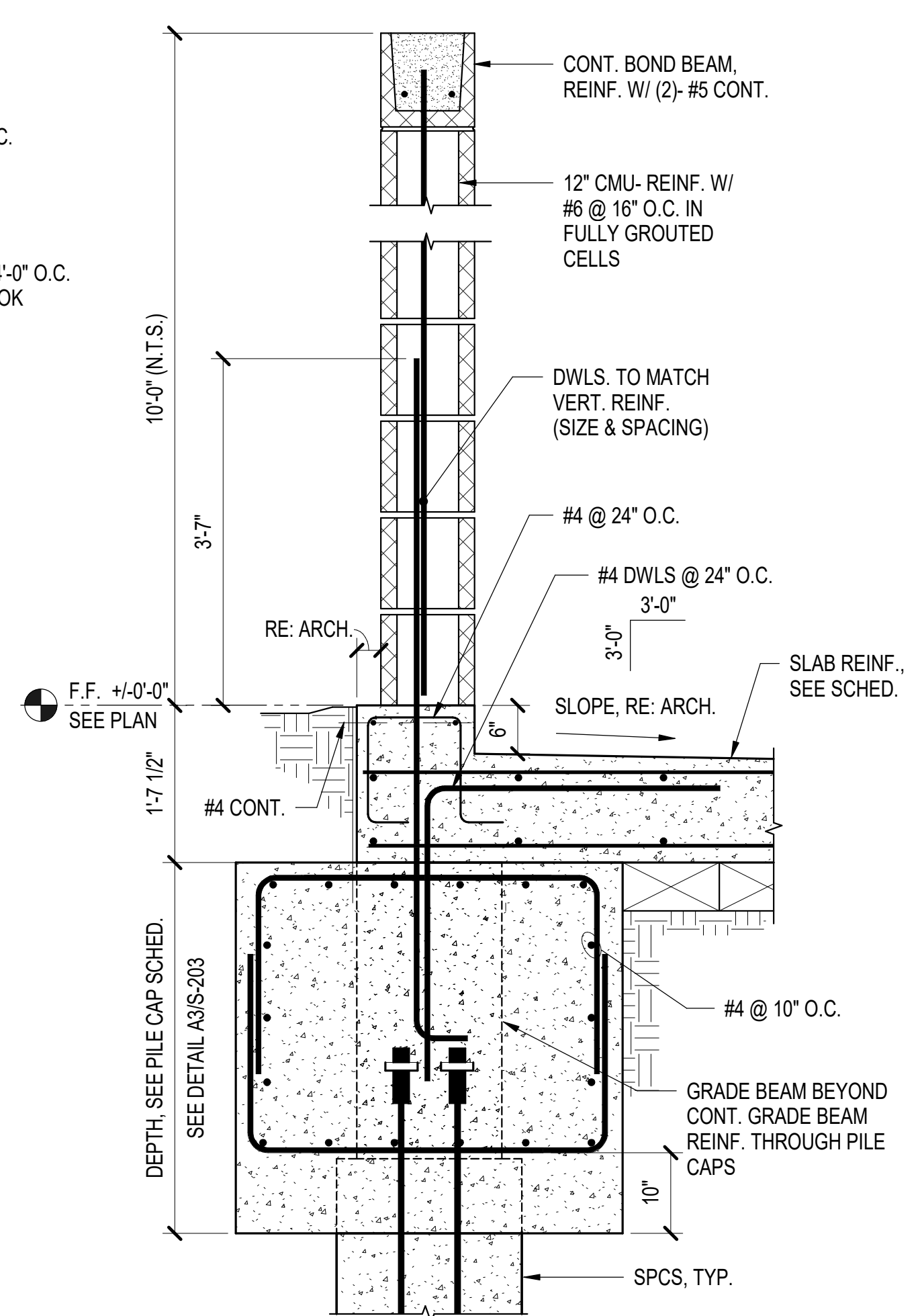
**C1** TYPICAL DETAIL  
EXTERIOR GRADE BEAM AT PILE CAP  
3/4" = 1'-0"



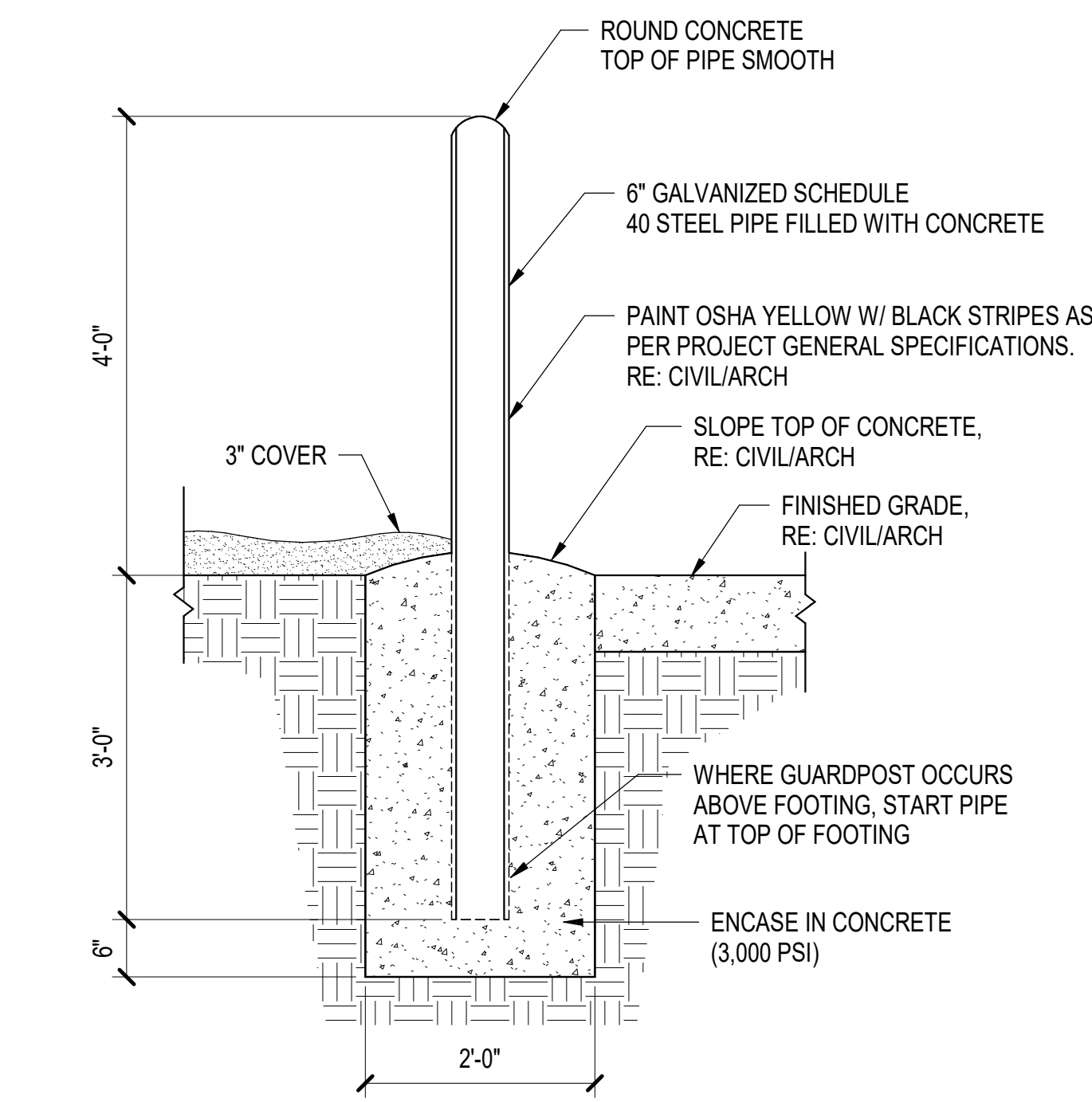
**B1** TYPICAL DETAIL  
WIDENED GRADE BEAM AT PEB COLUMN  
3/4" = 1'-0"



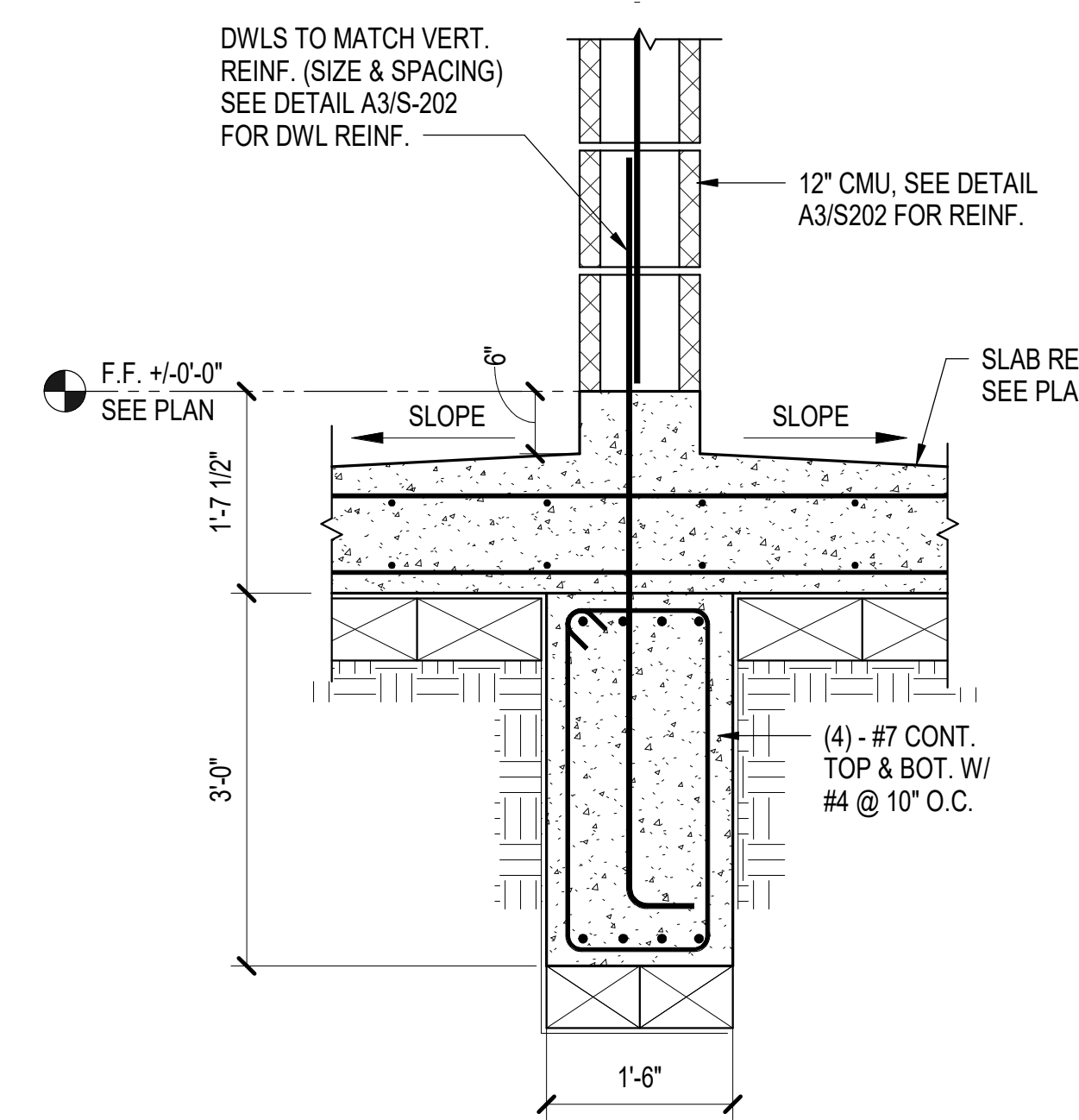
**A1** DETAIL AT BOLLARD  
3/4" = 1'-0"



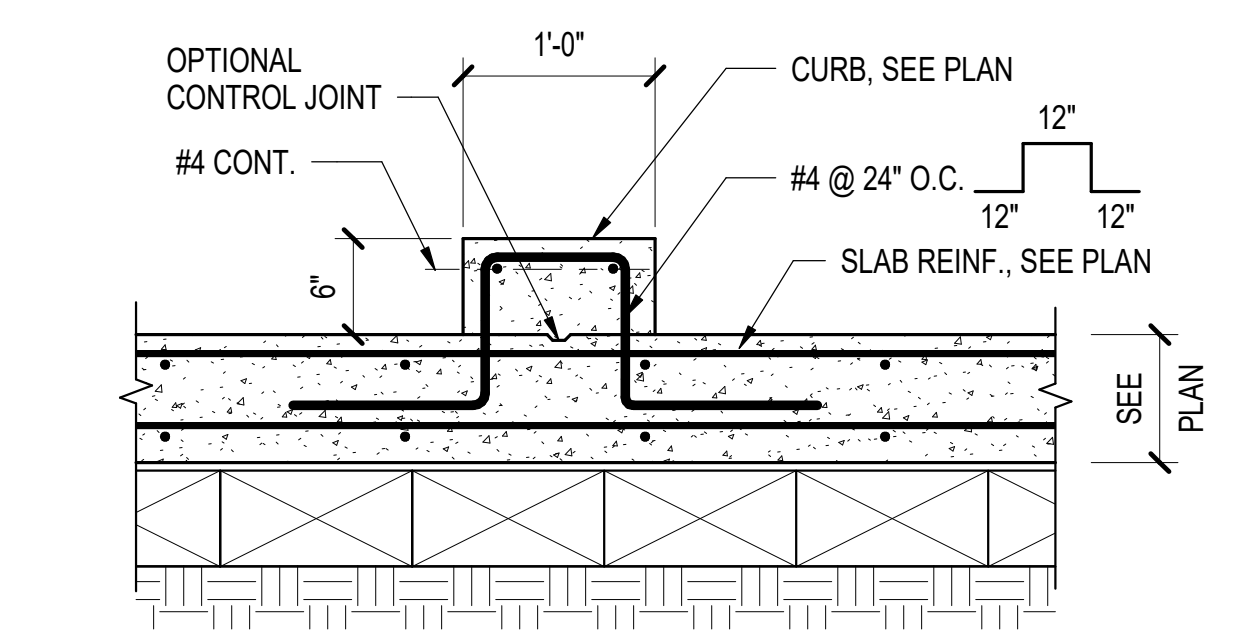
**B2** TYPICAL DETAIL  
EXTERIOR GRADE BEAM AT PILE CAP  
3/4" = 1'-0"



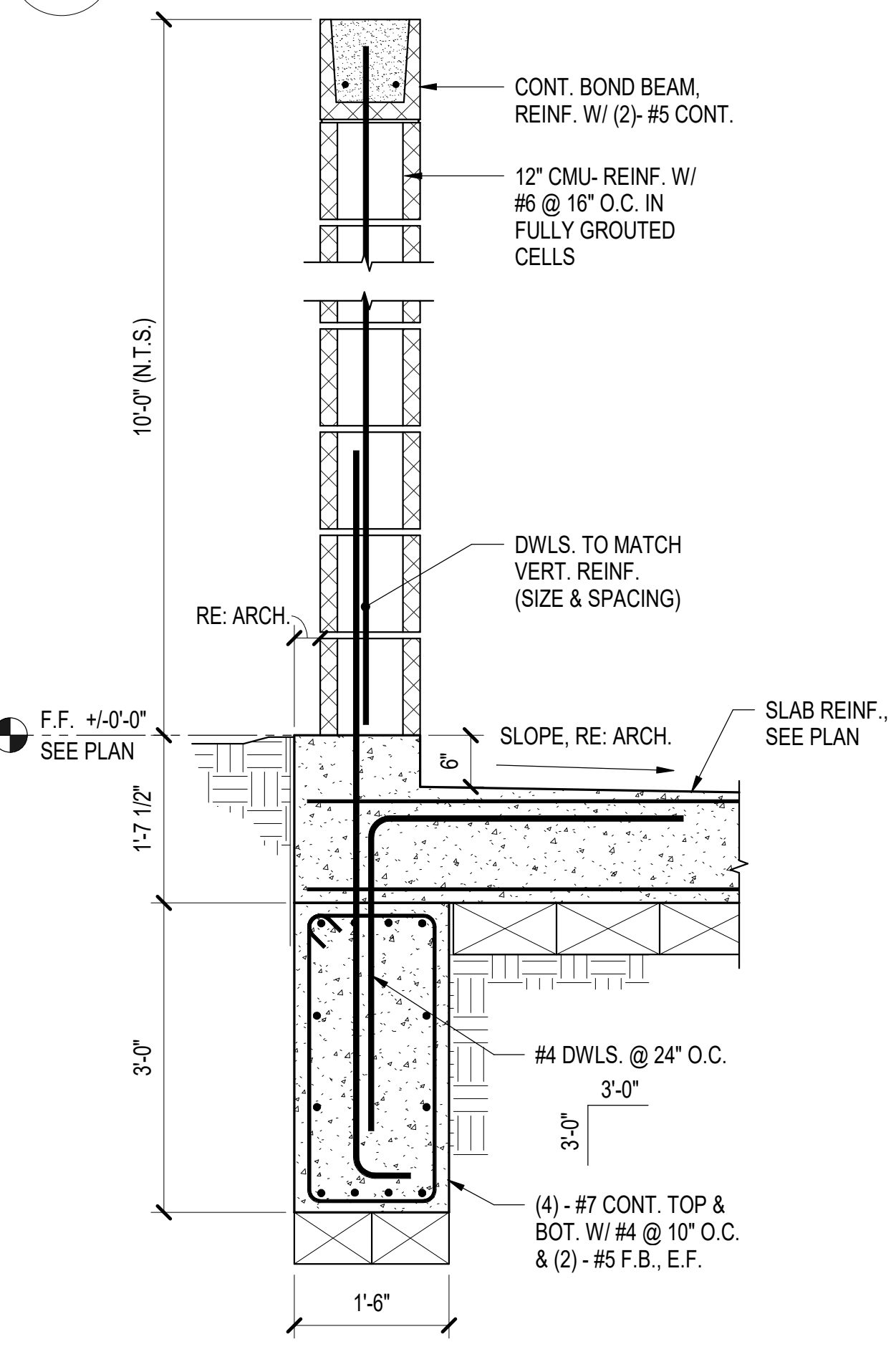
**A2** DETAIL AT BOLLARD  
3/4" = 1'-0"



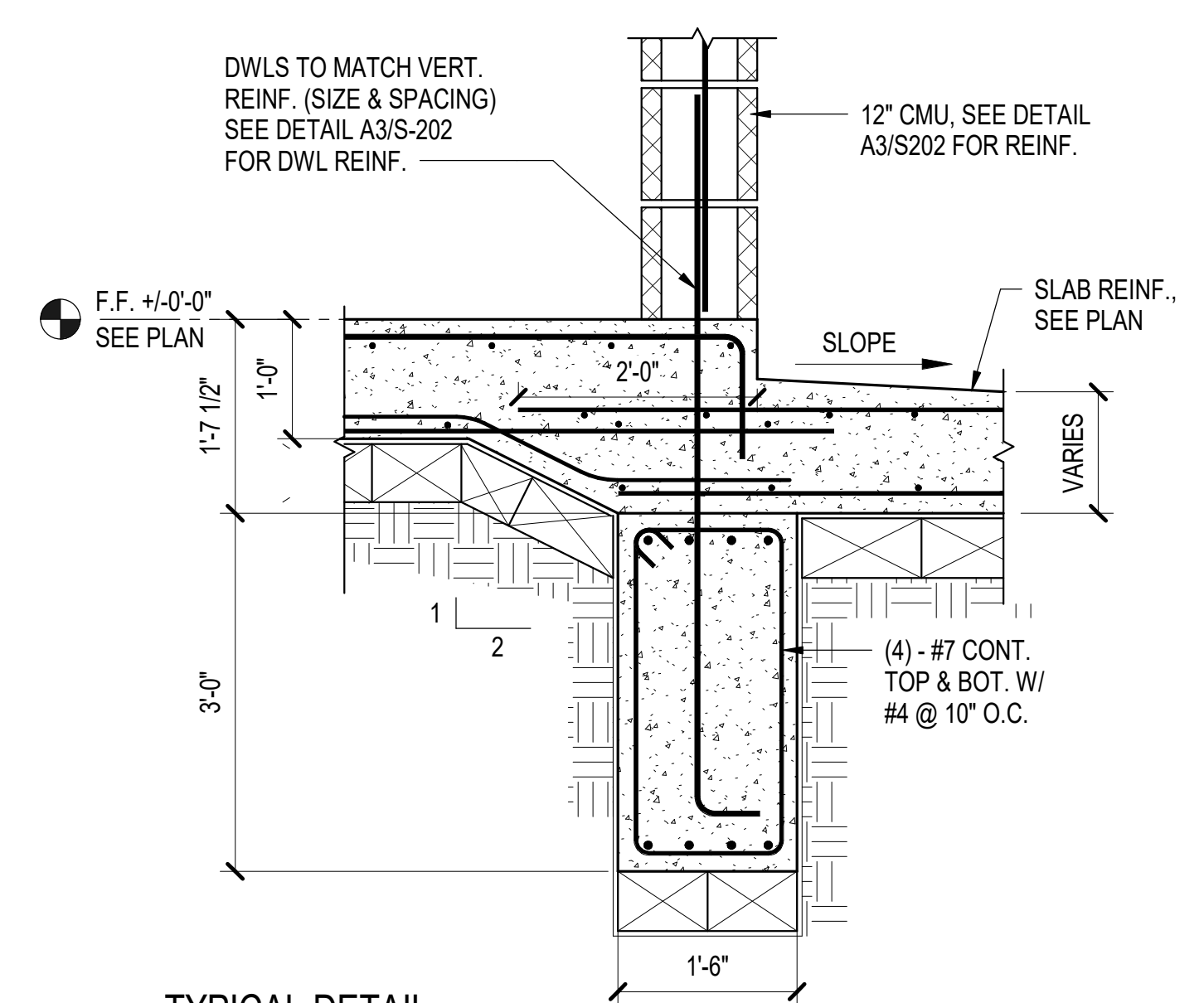
**C3** TYPICAL DETAIL  
INTERIOR GRADE BEAM  
3/4" = 1'-0"



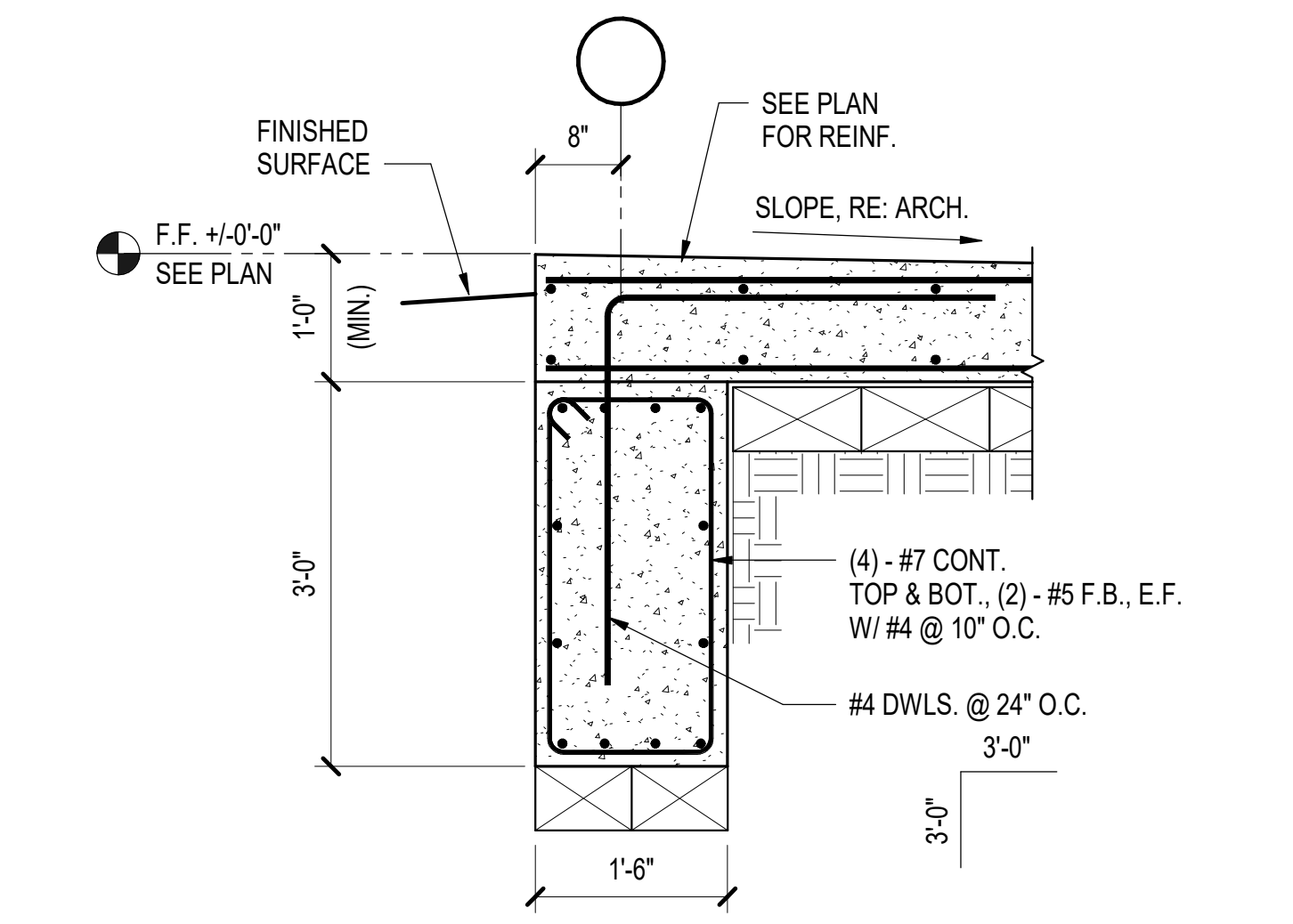
**B3** TYPICAL DETAIL AT CURB  
1" = 1'-0"



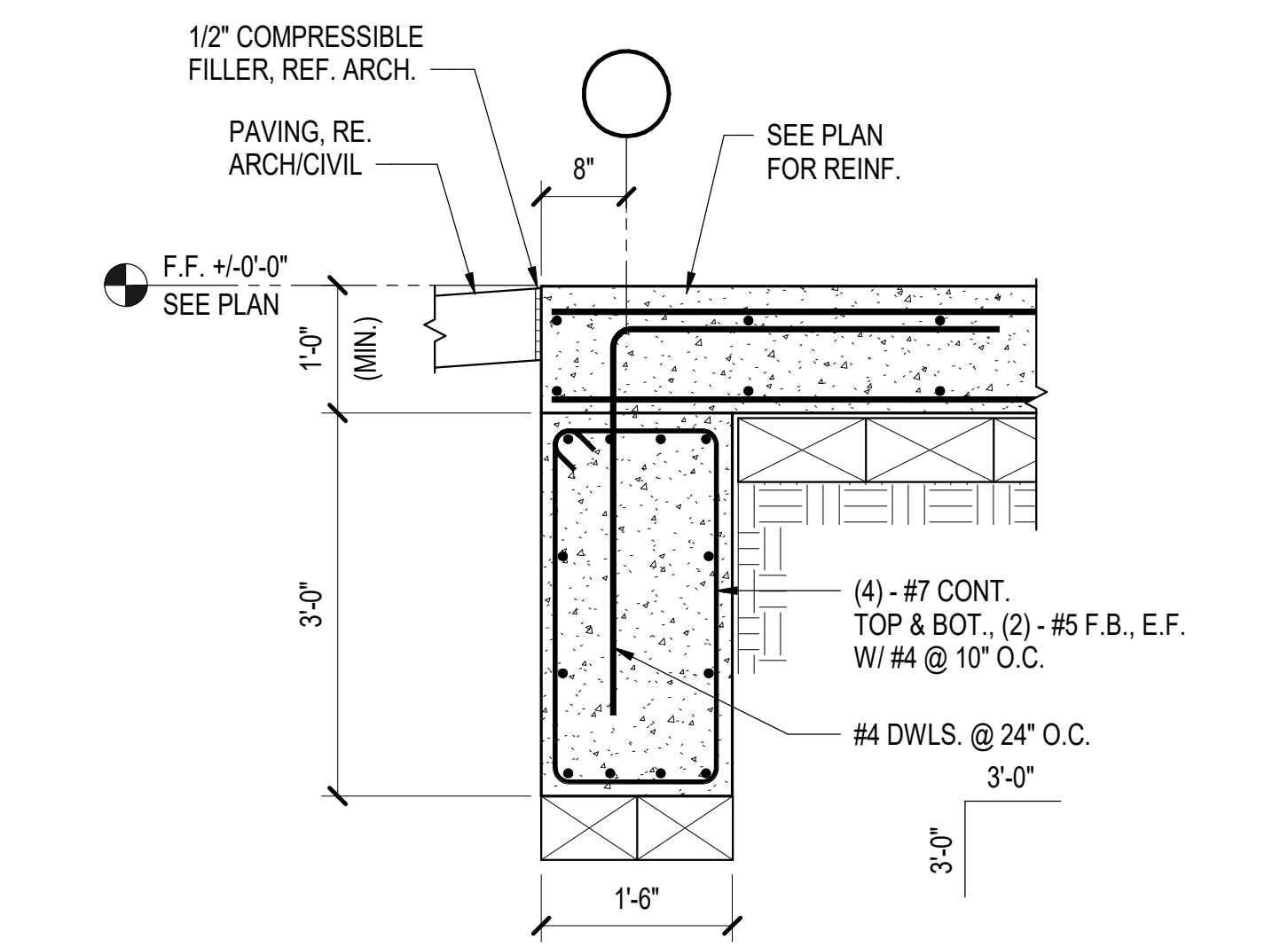
**A3** TYPICAL DETAIL  
EXTERIOR GRADE BEAM AT CMU SCREEN WALL  
3/4" = 1'-0"



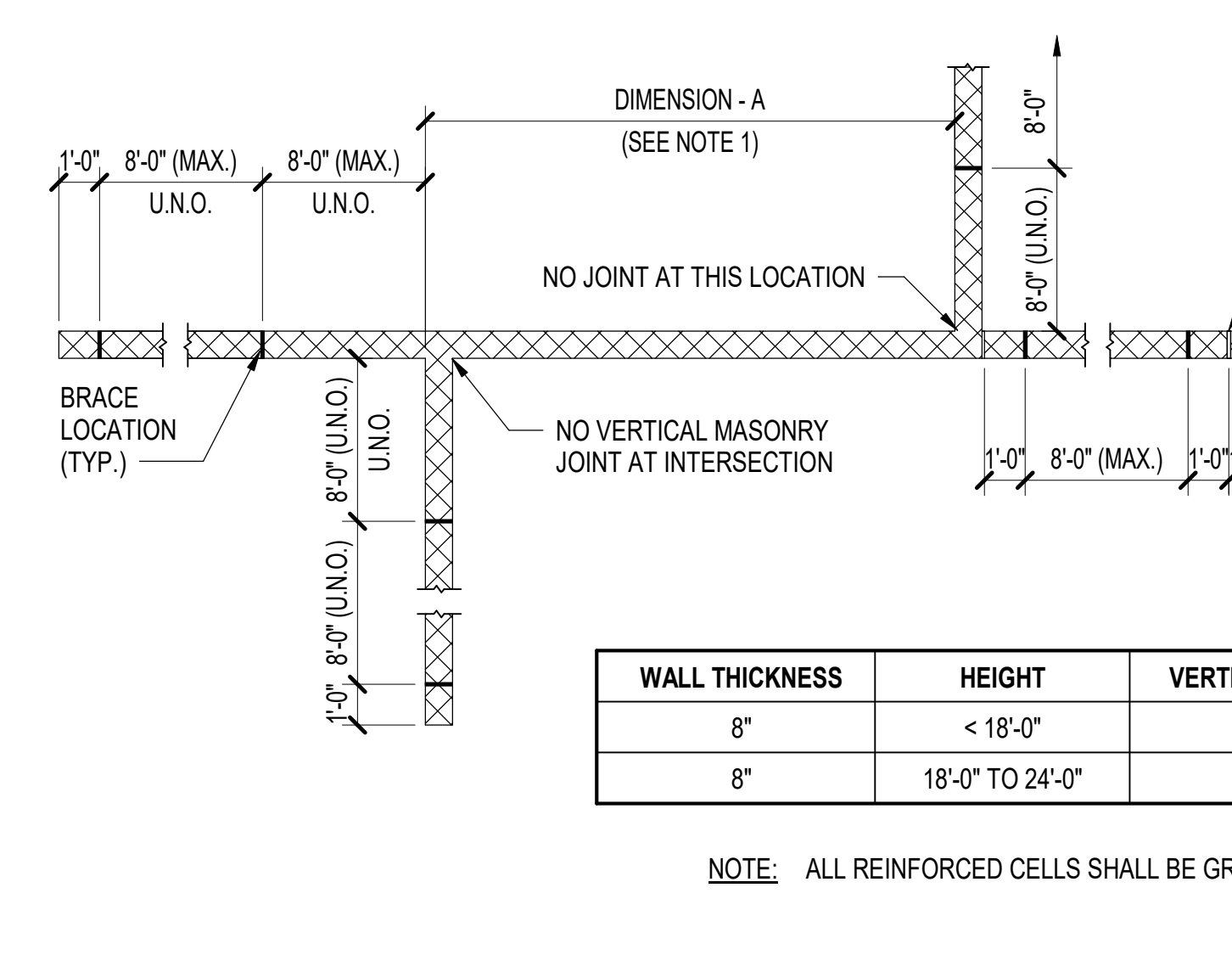
**D4** TYPICAL DETAIL  
INTERIOR GRADE BEAM  
3/4" = 1'-0"



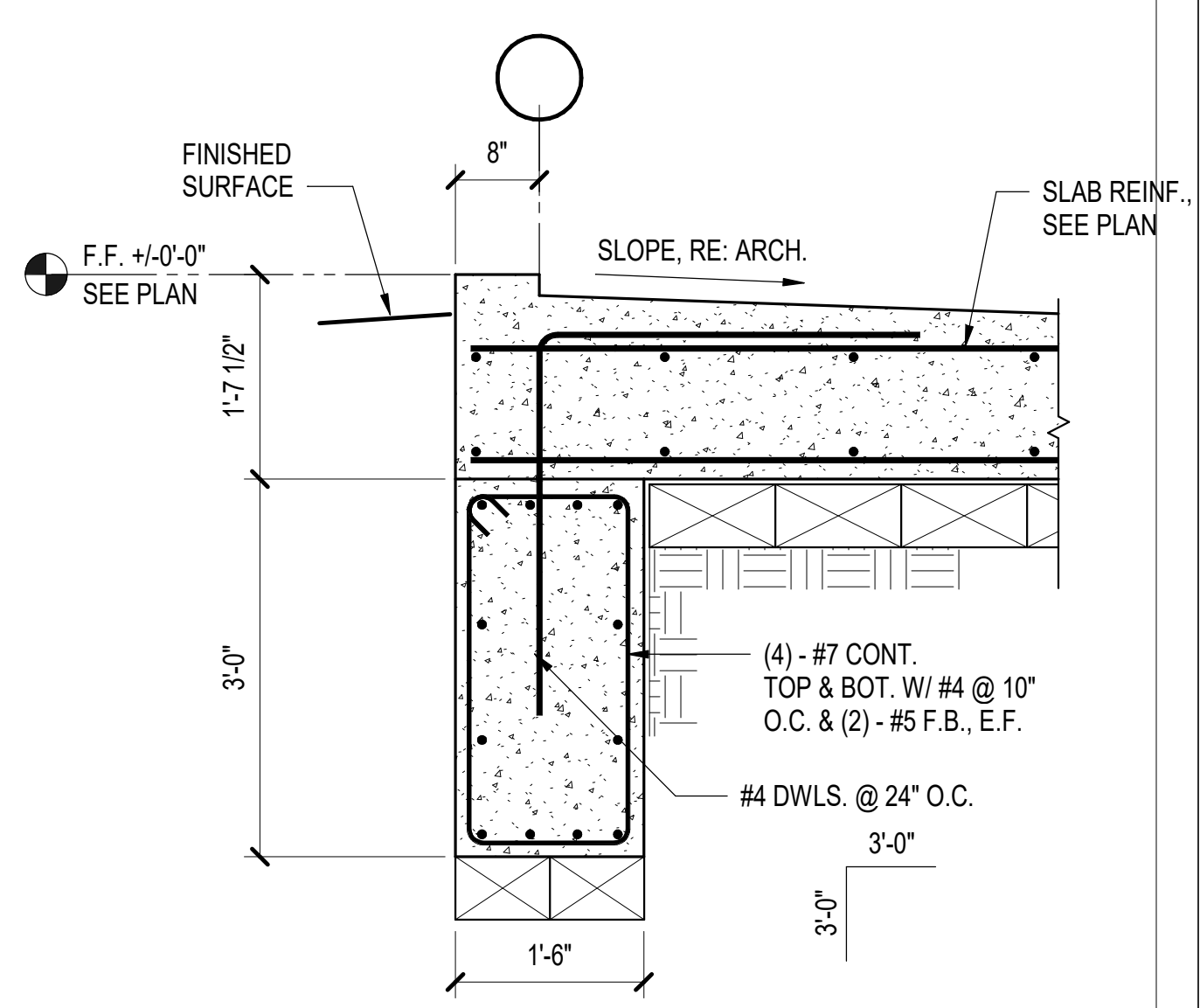
**C4** TYPICAL DETAIL  
EXTERIOR GRADE BEAM  
3/4" = 1'-0"



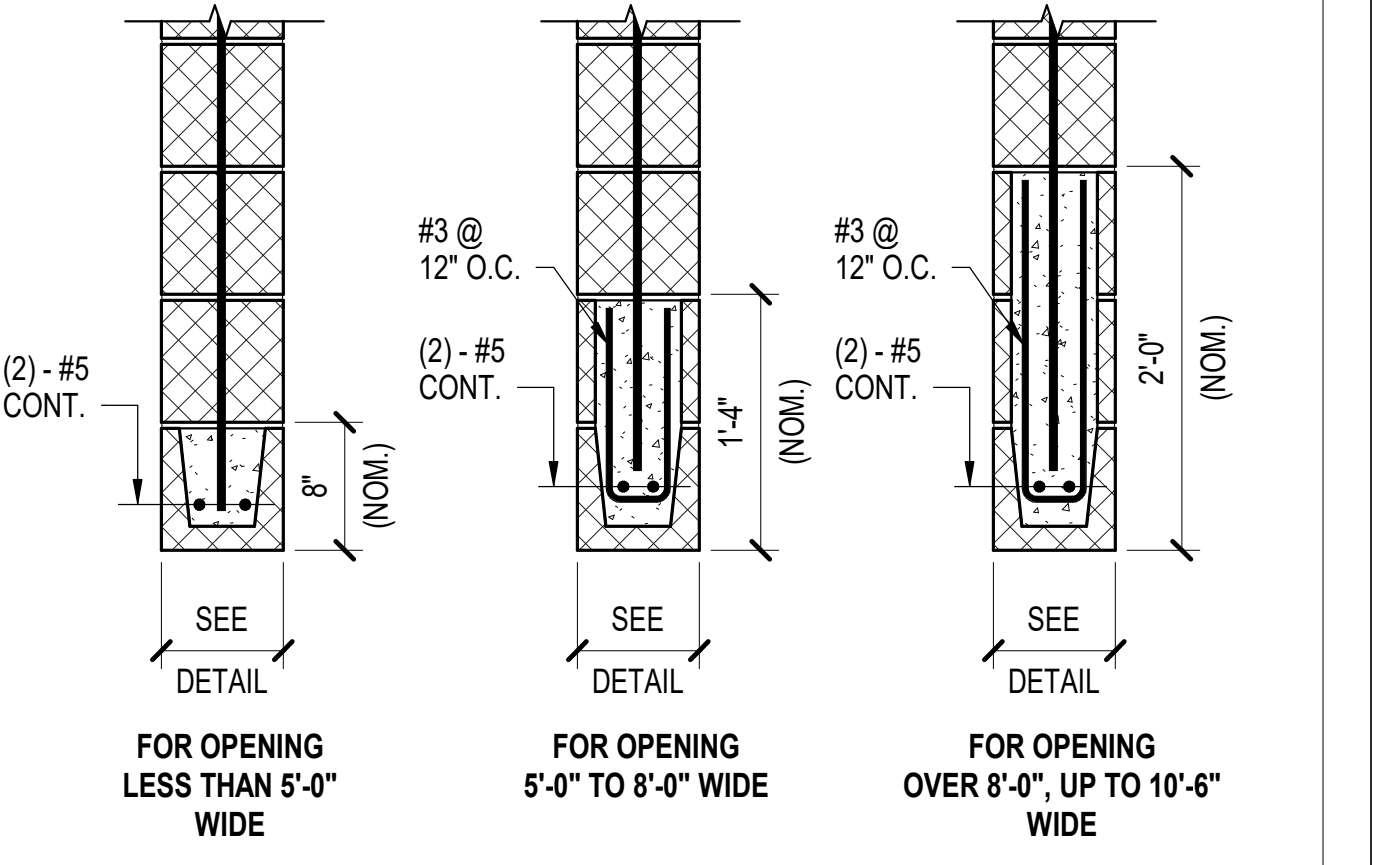
**B4** TYPICAL DETAIL  
EXTERIOR GRADE BEAM AT DOOR  
3/4" = 1'-0"



**A4** TYPICAL DETAIL - NON-LOAD BEARING INTERIOR CMU WALL  
BRACING AND REINFORCING STEEL  
1/4" = 1'-0"



**C5** TYPICAL DETAIL  
EXTERIOR GRADE BEAM  
3/4" = 1'-0"

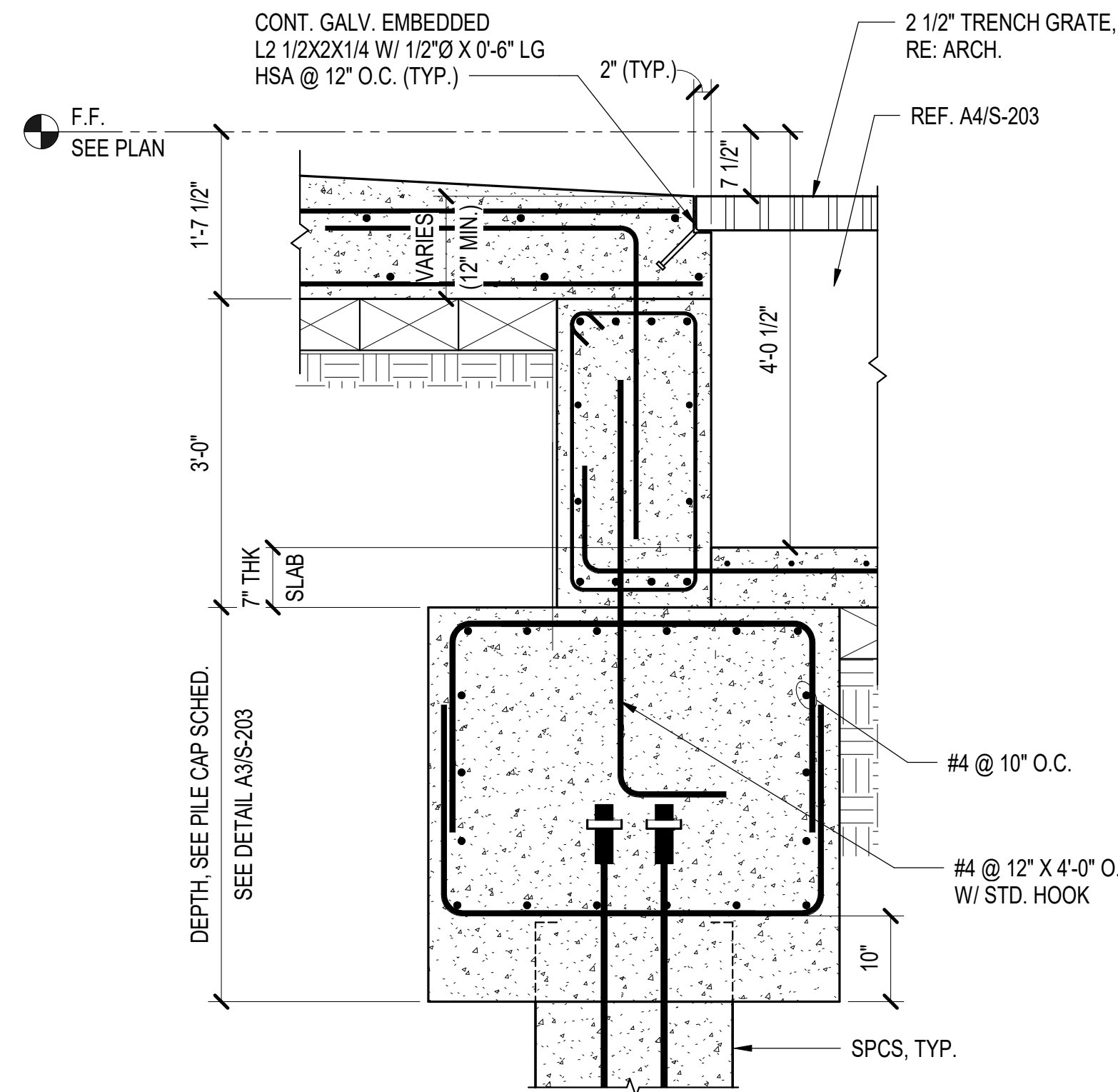


**B5** TYPICAL DETAIL - BLOCK LINTEL  
1" = 1'-0"

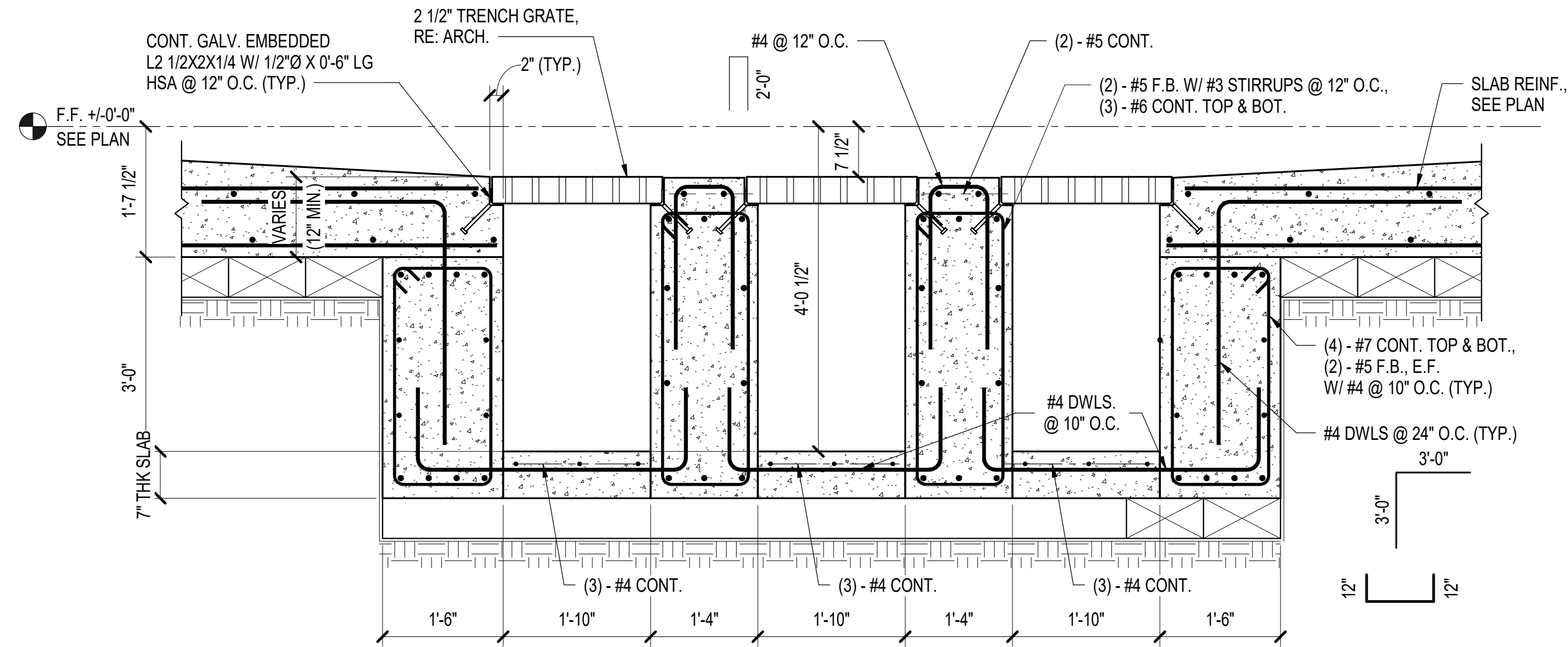
NOTES:  
1. ALL INTERIOR CMU WALLS SHALL BE BRACED AT TOP IF DISTANCE BETWEEN INTERSECTING WALLS (DIMENSION A) IS MORE THAN 36 TIMES THE WALL NOMINAL THICKNESS. THERE SHALL BE NO JOINT BETWEEN WALLS AT THE INTERSECTIONS OR IN BETWEEN THE INTERSECTING WALLS. THERE SHALL BE NO DOORS OR ANY OTHER OPENINGS LARGER THAN 24 INCHES. MINIMUM LENGTH OF INTERSECTING WALLS SHALL BE 4 FEET.  
2. REINFORCE VERTICALLY SPANNING CMU WALLS, SEE SCHEDULE.  
3. AT BASE OF WALLS, PROVIDE DOWELS TO MATCH SIZE & SPACING OF VERTICAL BARS (AT A MINIMUM PROVIDE #4 DOWELS @ 48" O.C.).  
4. SEE TYPICAL DETAILS ON STRUCTURAL / ARCHITECTURAL DRAWINGS FOR BRACING REQUIREMENTS AT THE TOP OF CMU WALLS. THIS DETAIL SHALL APPLY IF SPECIFIC REINFORCING & BRACING DETAILS ARE NOT SHOWN ON THE ARCHITECTURAL / STRUCTURAL DRAWINGS.  
5. CONSULT WITH ARCHITECT / ENGINEER WHEN HEIGHT OF WALL EXCEEDS THE HEIGHT SHOWN ABOVE.  
6. PROVIDE CONTINUOUS BOND BEAM AT THE TOP OF THE WALLS. REINFORCE W/ (2) - #4 UNLESS NOTED OTHERWISE.  
7. SEE GENERAL NOTES FOR ADDNL. INFORMATION.

WALL THICKNESS	HEIGHT	VERTICAL REINFORCING
8"	< 18'-0"	NONE
8"	18'-0" TO 24'-0"	#4 @ 48" O.C.

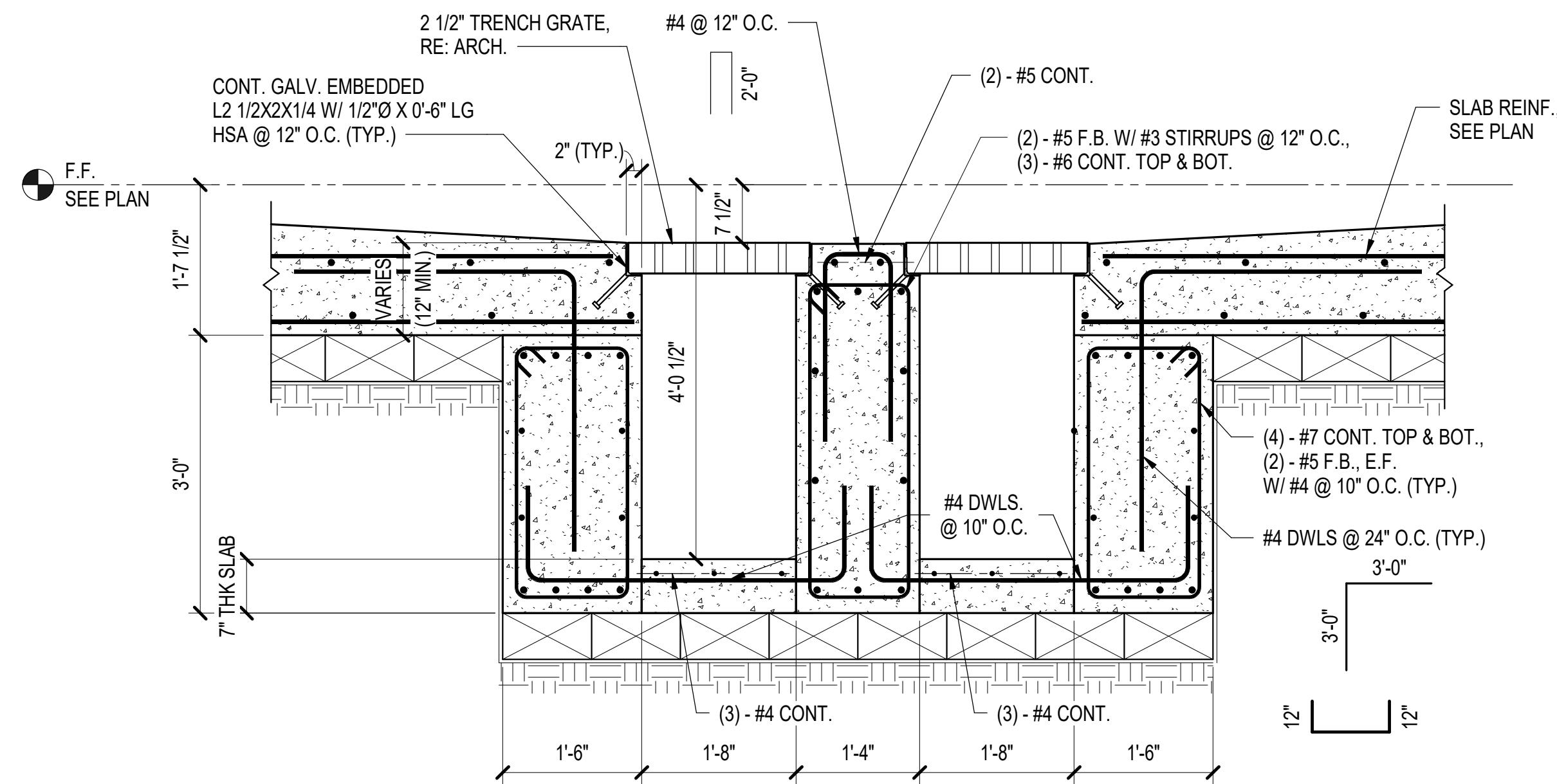
NOTE: ALL REINFORCED CELLS SHALL BE GROUTED SOLID



C4 DETAIL AT TRENCH DRAIN  
3/4" = 1'-0"



B4 DETAIL AT TRENCH DRAIN  
3/4" = 1'-0"



A4 DETAIL AT TRENCH DRAIN  
3/4" = 1'-0"

PILE CAP SCHEDULE					
MARK	NO. OF PILES	SIZE OF PILE CAP B X L X D	TOP & BOTTOM REINFORCING		TRANSVERSE REINFORCEMENT
			LONG BARS	SHORT BARS	
PC-1	1	4'-0" X 4'-0" X 3'-10"	(9) - #6	(9) - #6	-

- NOTES:
- PROVIDE 90° HOOK IN PILE CAP LONGITUDINAL REINFORCEMENT HOOK SHALL BE 12d (MIN.) IN LENGTH
  - ALL PILES SHALL EXTEND INTO SOIL 90'-0" (MINIMUM) FROM EXISTING GRADE AT THE TIME OF GEOTECHNICAL BORINGS.
  - DESIGN OF 18" DRIVEN SQUARE PRE-CAST PRESTRESSED CONCRETE PILES (SPCP) SHALL BE BY THE SUPPLIER.
  - SIDE BARS PER DETAIL B2/S-202.

A3 PILE CAP SCHEDULE  
3/4" = 1'-0"

VG CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

REV	DATE	DESCRIPTION
0	03/04/2025	ISSUED FOR CONSTRUCTION

EA PROJECT NUMBER: 24052  
ARCHITECT:  
LICENSE #:

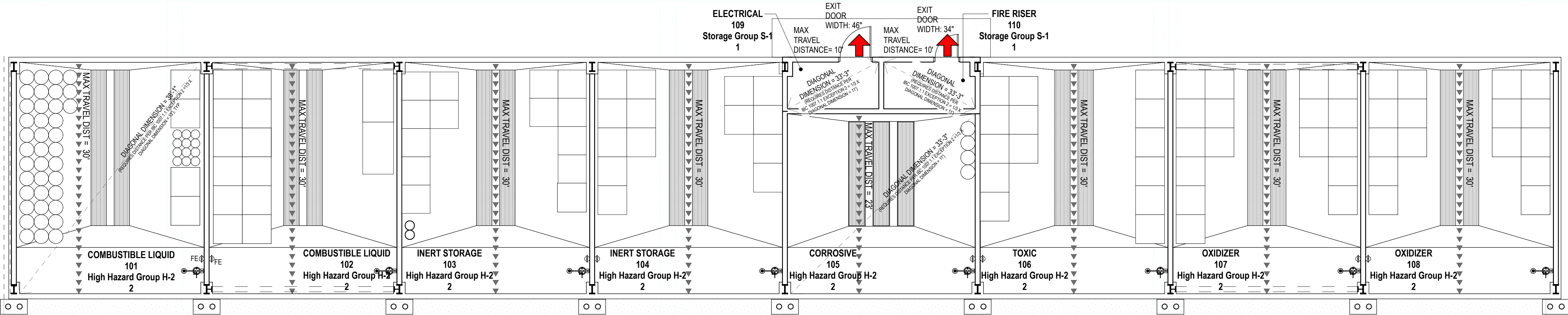
VENTURE GLOBAL LNG  
DAVIS RD.  
CAMERON, LA 70631

0	2/13/25	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION

EA PROJECT NUMBER: 24013  
ARCHITECT: ALAN A CREECH  
LICENSE #: 9820



**A-000**



## LIFE SAFETY PLAN NOTES

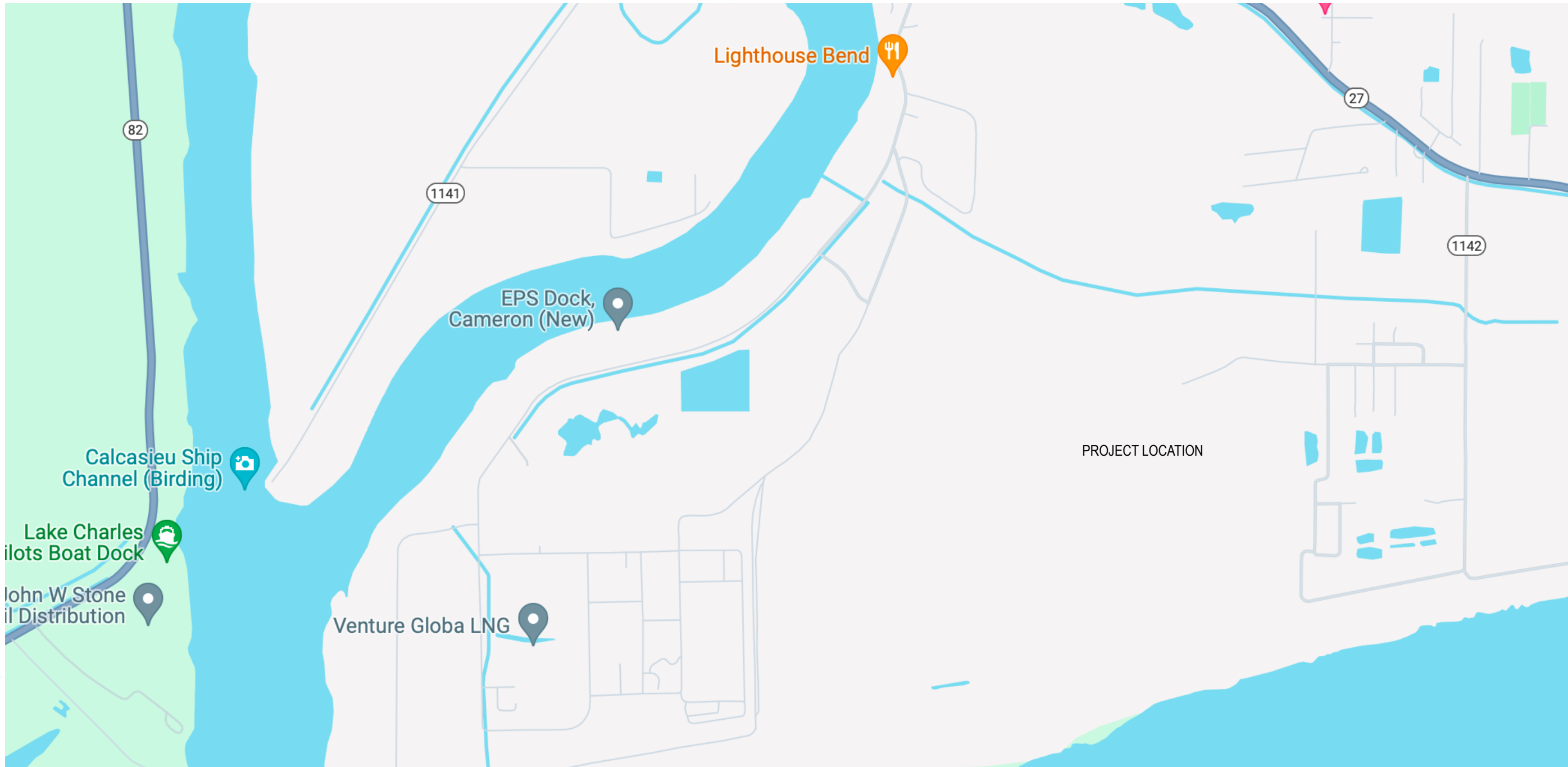
### GRAPHIC LEGEND

- ◆ FE WALL MOUNTED FIRE EXTINGUISHER
- ⬢ ILLUMINATED EXIT SIGN, RE: RCP AND ELEC
- SD SMOKE DETECTOR
- PATH OF TRAVEL
- ↔ DIAGONAL DISTANCE
- HIGH HAZARD GROUP H2 2 = OCCUPANT LOAD
- ➡ EXIT - XX' EXIT DISCHARGE AND PROVIDED EGRESS WIDTH
- 1 HR RATED
- 2 HR RATED
- 3 HR RATED
- 4 HR RATED

## ABBREVIATIONS

<b>A</b> AB ACOUS AD ADJ ADJUST AFF AGG AHU ALT ALUM ANOD AP APPROX ARCH ASPH ATN AUTO AUX AVE AVG A/C A/V	<b>B</b> BD BLDG BLKG BLK BM BOT BRG BRKT BSMT BTW BUR B&B B-B BM B/F	<b>C</b> CAB CB CCTV CEM CER CFMF CG CIP CJ CBDO CLD CLR CMU CNTR COL COMP CONC COND CONF CONST CONT CONTR CORR CORRU CSMT CT CTR CTSK CU FEET CU YARD CW C-C C.O. C.W. C.W.X.	<b>D</b> D DBL DEFL DF DIA DIAG DIM DISC DISP DL DMPFG DN DR DS DTL DWC DWG	<b>E</b> EA EFOB EJ EL ELAS ELEC ELEV EMER EOD EOS EP EQ EQUIP ESP EW EWC EWH EXH EXIST EXP EXPN EXT	<b>F</b> FA FE FD FH FEC FIN FHC FL FLX FLRG FLR FLOOR FLASHG FND FM FRFF FPW FSEC FS FTG FT FURR FURN FVC	<b>G</b> GAL GA GC GALV GEN GUARD GL GLASS/GLAZING GALVANIZED IRON GRADE/GRADING GMP GYP	<b>H</b> HC HB HDCP HD HDWR HDWD HM HFS HP HORIZ HT HR HW HYAC HYD	<b>I</b> IN ID INCL INCAND INSUL INFO IPS INT	<b>J</b> JAN JOIST JT	<b>L</b> LAM LAV LGTH LH LIN LL LT LV LVR LWT	<b>M</b> M MACH mm MAS MAINT MAX MATL MEMBR MECH MFR MEP MIN MH ML MISC MO MLDG MTD MR MTL MTG MULL	<b>N</b> NO. or # NOISE REDUCTION COEFFICIENT NOM NTS	<b>O</b> OA OC OD OFCI OFF OFOI OH OP OPH OPNG OPP ORD OS OIA	<b>P</b> PART PCF PCP PCT PERF PPF PL PLAM PLAS PLAST PLBG PLWD PNL POL PR PRKG PSF PSI PTD PVC PVG PVMT P/C	<b>Q</b> QT	<b>R</b> RAD RD RE REBAR REC RECEPT RECEP RECOM REG REINFORCED REQD RES RET REV RFG RH RM RO ROW RAG RIA	<b>S</b> SC SCHD SECT SF SHLV SHT SHTNG SIM SPEC SQ SSTL STA STAB STC STD STL STOR STRUCT SUSP SW SYN SIAD	<b>T</b> T TCOC TC TEMP TEL THRES THK TOS TKBD TRANS TOSS TTC TRZO TYP TV	<b>W</b> WC WD WDW WF WH WI WP WR WT WVF W/P W/W W.W.X. WI W/O WTH	<b>W</b> WC WD WDW WF WH WI WP WR WT WVF W/P W/W W.W.X. WI W/O WTH
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## VICINITY MAP



## SHEET INDEX

STRUCTURAL
S-000 "STRUCTURAL PLACEHOLDER"

## ARCHITECTURAL

A-001	GENERAL INFO, SHEET INDEX AND LIFE SAFETY PLAN
A-002	CODE SUMMARY
A-003	EXTERIOR WALL ASSEMBLIES AND SITE PLAN
A-121	FLOOR PLAN AND DETAILS
A-131	ROOF, CEILING PLAN AND DETAILS
A-161	HAZARDOUS MATERIAL PLAN
A-401	EXTERIOR ELEVATIONS AND DETAILS

## MECHANICAL

M000	HVAC COVERSHEET
M201	LEVEL 01 PLAN - HVAC
M400	HVAC DETAILS
M500	HVAC DIAGRAMS
M600	HVAC SCHEDULES

## PLUMBING

P000	PLUMBING COVERSHEET
P201	LEVEL 01 PLAN - PLUMBING
P400	PLUMBING DETAILS
P600	PLUMBING SCHEDULES

## ELECTRICAL

E000	ELECTRICAL COVERSHEET
E201	LEVEL 01 PLAN - ELECTRICAL
E300	ELECTRICAL SCHEDULES

## FIRE PROTECTION

F000	FIRE PROTECTION COVERSHEET
F201	LEVEL 01 PLAN - FIRE PROTECTION
F400	FIRE PROTECTION DETAILS
F600	FIRE PROTECTION SCHEDULES

# CP2 CHEMICAL STORAGE BUILDING

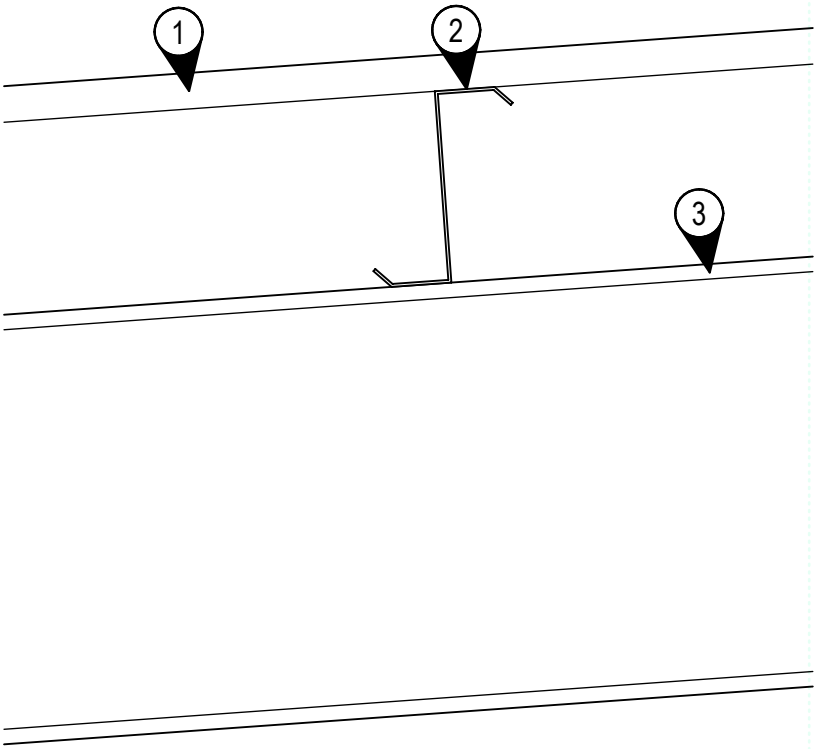
## DAVIS RD. CAMERON, LA 70631



ROOF ASSEMBLIES

RA-1

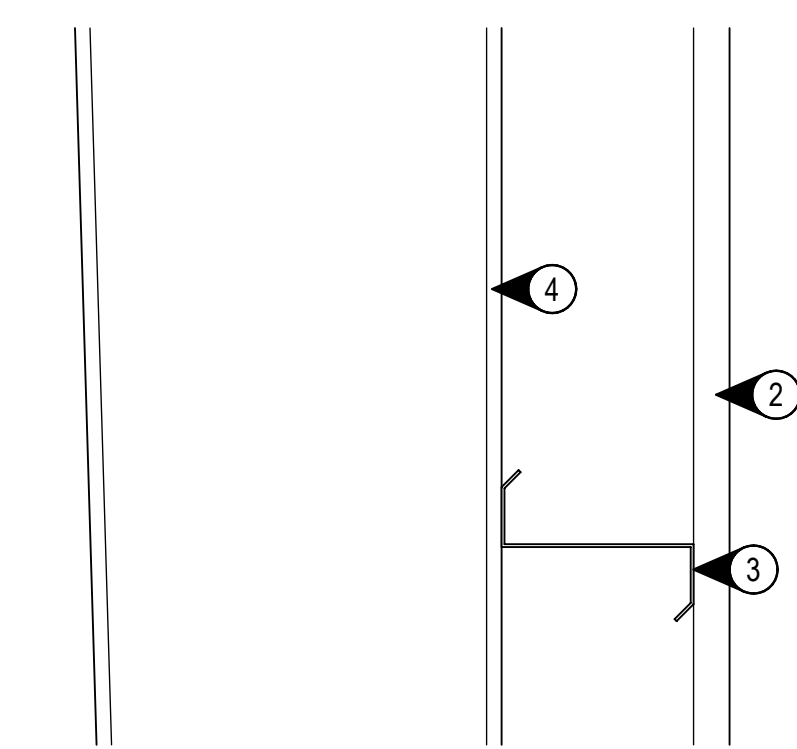
- 1 STANDING SEAM METAL ROOF
- 2 PURLINS
- 3 PRE-ENGINEERED METAL BUILDING FRAMING



WALL ASSEMBLIES

XWA-1

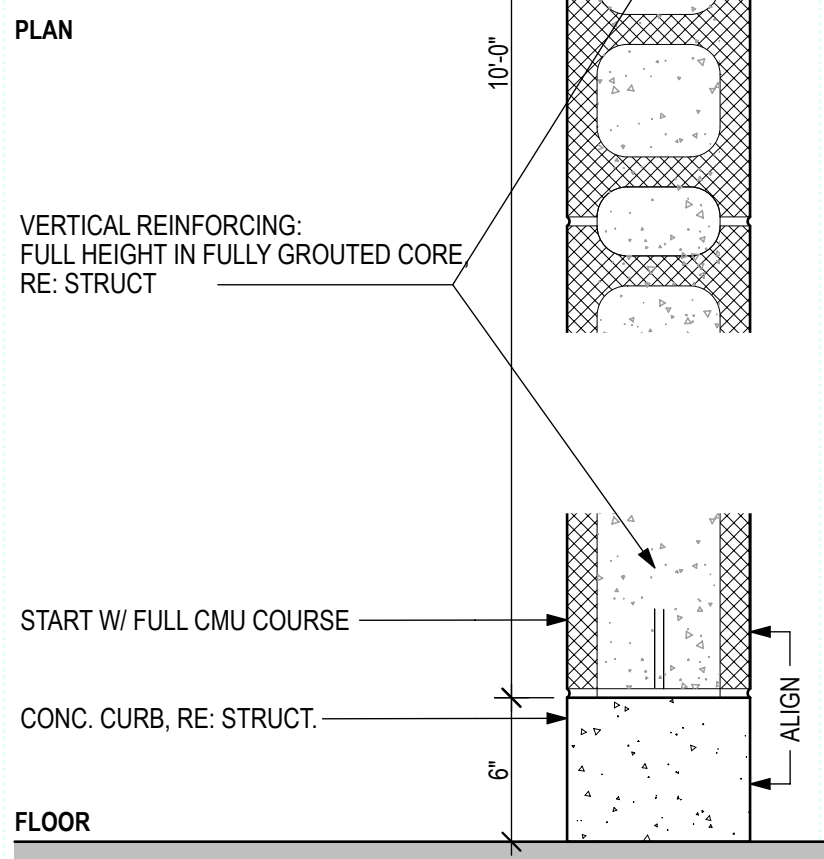
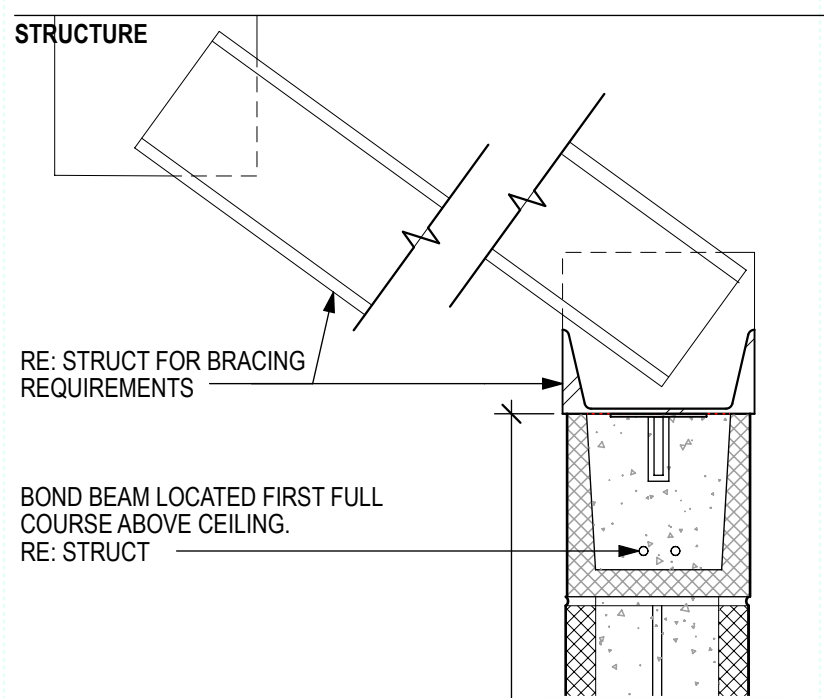
- 1 R-PANEL METAL WALL PANEL
- 2 ZEE GIRTS
- 3 PRE-ENGINEERED METAL BUILDING FRAMING



MC

7 5/8" CONCRETE MASONRY UNIT NOT TO DECK

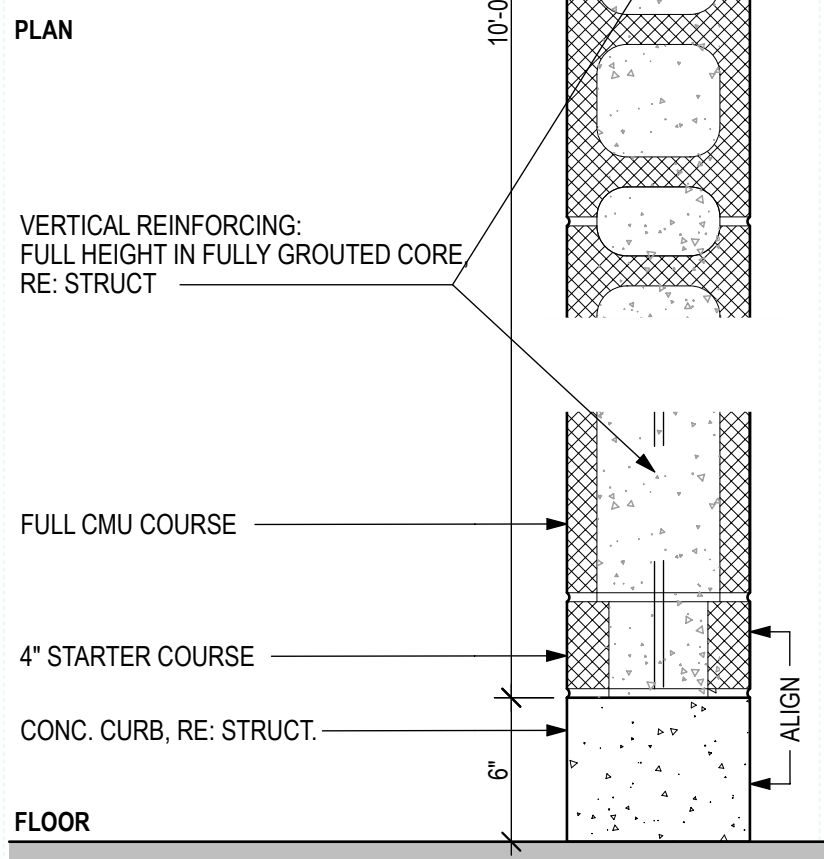
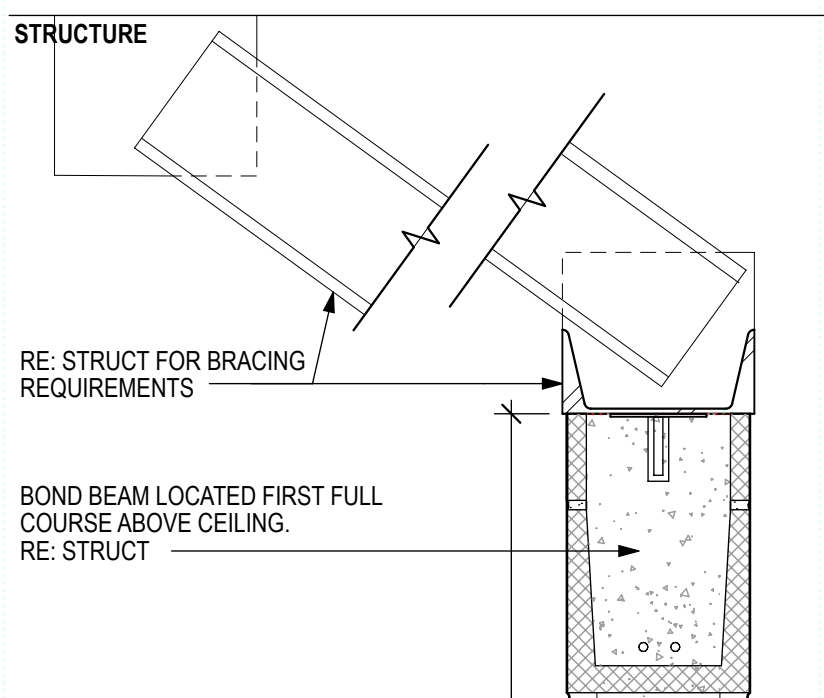
TYPE	FRAMING MEMBER	PARTITION WIDTH	STC (INSULATED)
MC12	A	11 5/8"	N/A



MCS

7 5/8" CONCRETE MASONRY UNIT NOT TO DECK

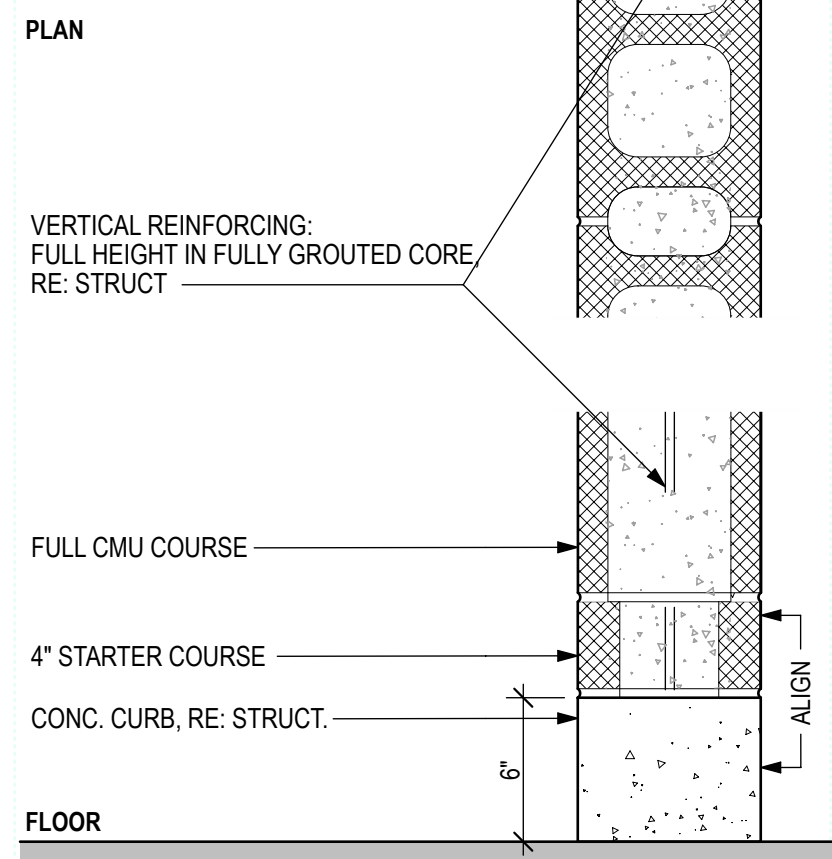
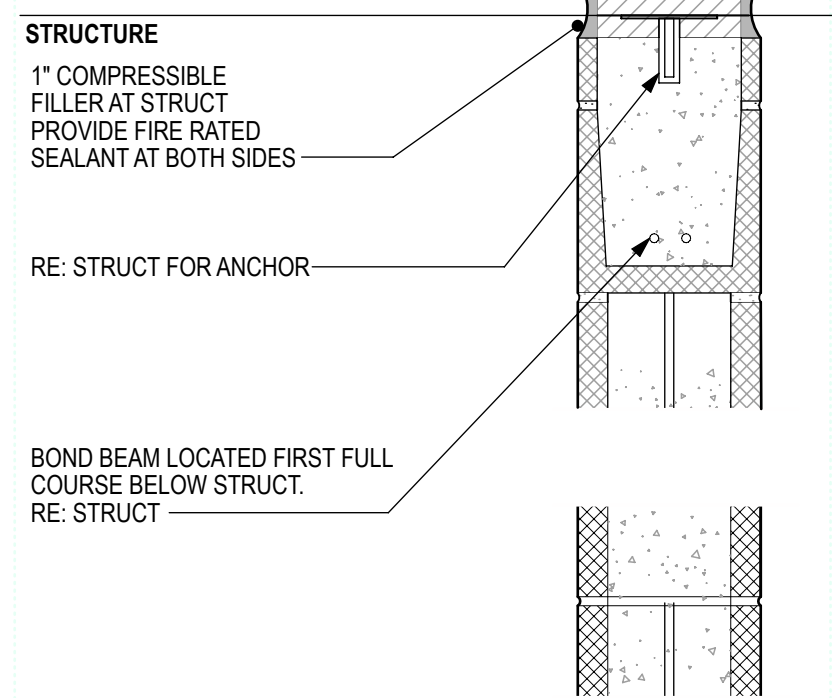
TYPE	FRAMING MEMBER	PARTITION WIDTH	STC (INSULATED)
MC12	A	11 5/8"	N/A



MCR

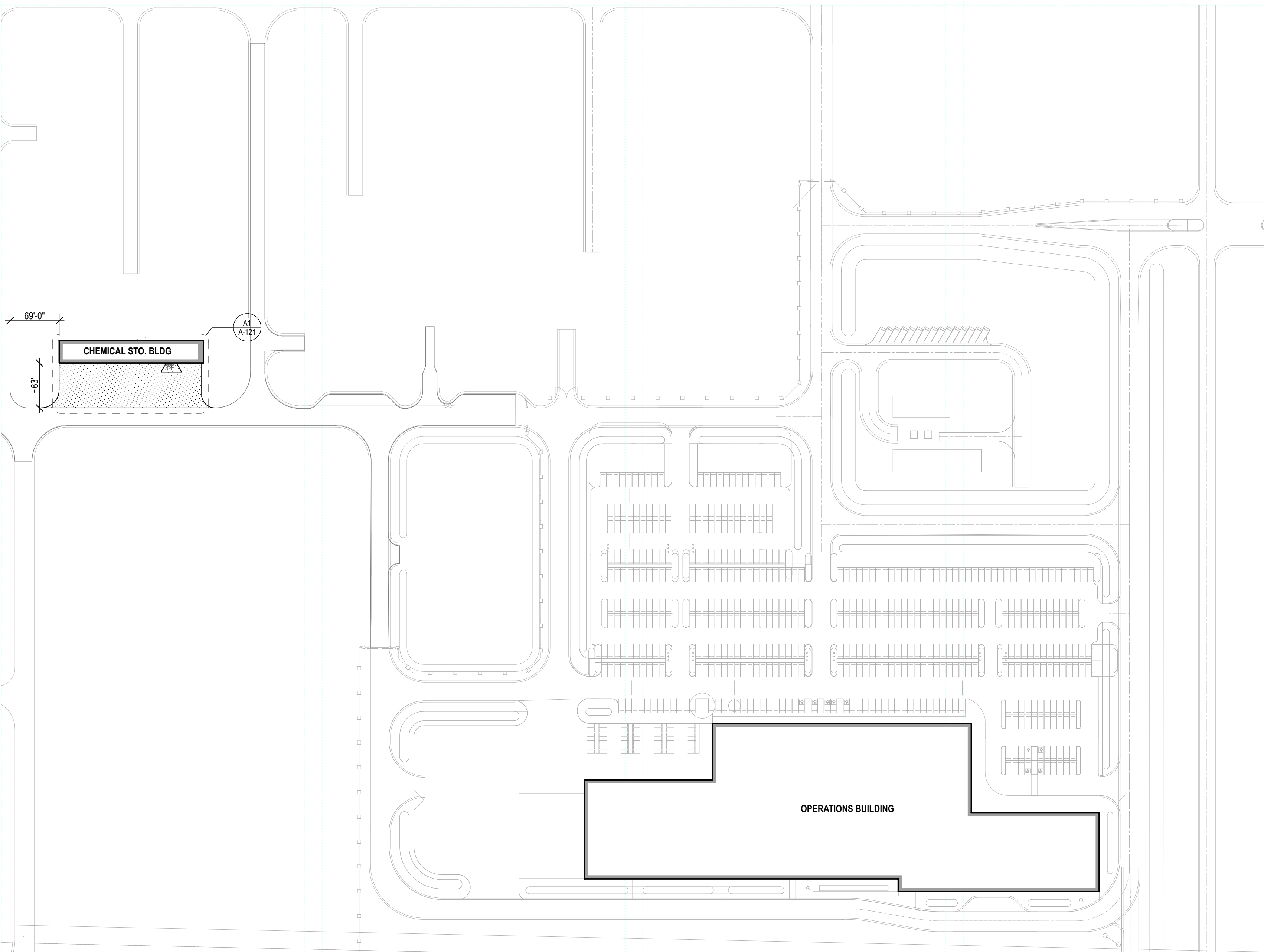
7 5/8" CONCRETE MASONRY UNIT NOT TO DECK

TYPE	FRAMING MEMBER	PARTITION WIDTH	STC (INSULATED)
MCR12	A	11 5/8"	N/A



PARTITION GENERAL NOTES

- PROVIDE COMPLETE CONSTRUCTION ASSEMBLIES COMPLYING WITH APPLICABLE LOCAL CODES, ASTM C565, ASTM C754, AND OTHER STANDARDS AS REFERENCED BY THE CONTRACT DOCUMENTS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REFERENCE STANDARDS, PRODUCT INFORMATION, AND EXECUTION REQUIREMENTS.
- REFER TO FLOOR PLANS FOR LOCATION AND EXTENTS OF PARTITIONS. PARTITION TYPES ARE INDICATED WITH THE SYMBOL DESCRIBED BELOW:
  - PARTITION TYPE: REFER TO DETAILS ON THIS SHEET
  - FRAMING MEMBER SIZE NUMBER
  - ACOUSTIC INSUL DESIGNATION
- NOT ALL PARTITION TYPES INDICATED ON THIS SHEET MAY BE USED ON THIS SPECIFIC PHASE OF THE PROJECT.
- IDENTIFY FIRE AND SMOKE PARTITIONS WITHIN ACCESSIBLE CONCEALED SPACES PER APPLICABLE LOCAL CODES.



A1 SITE PLAN  
SCALE: 1" = 100'

REV	DATE	DESCRIPTION
1	2/23/25	ISSUED FOR CONSTRUCTION
0	2/13/25	ISSUED FOR CONSTRUCTION

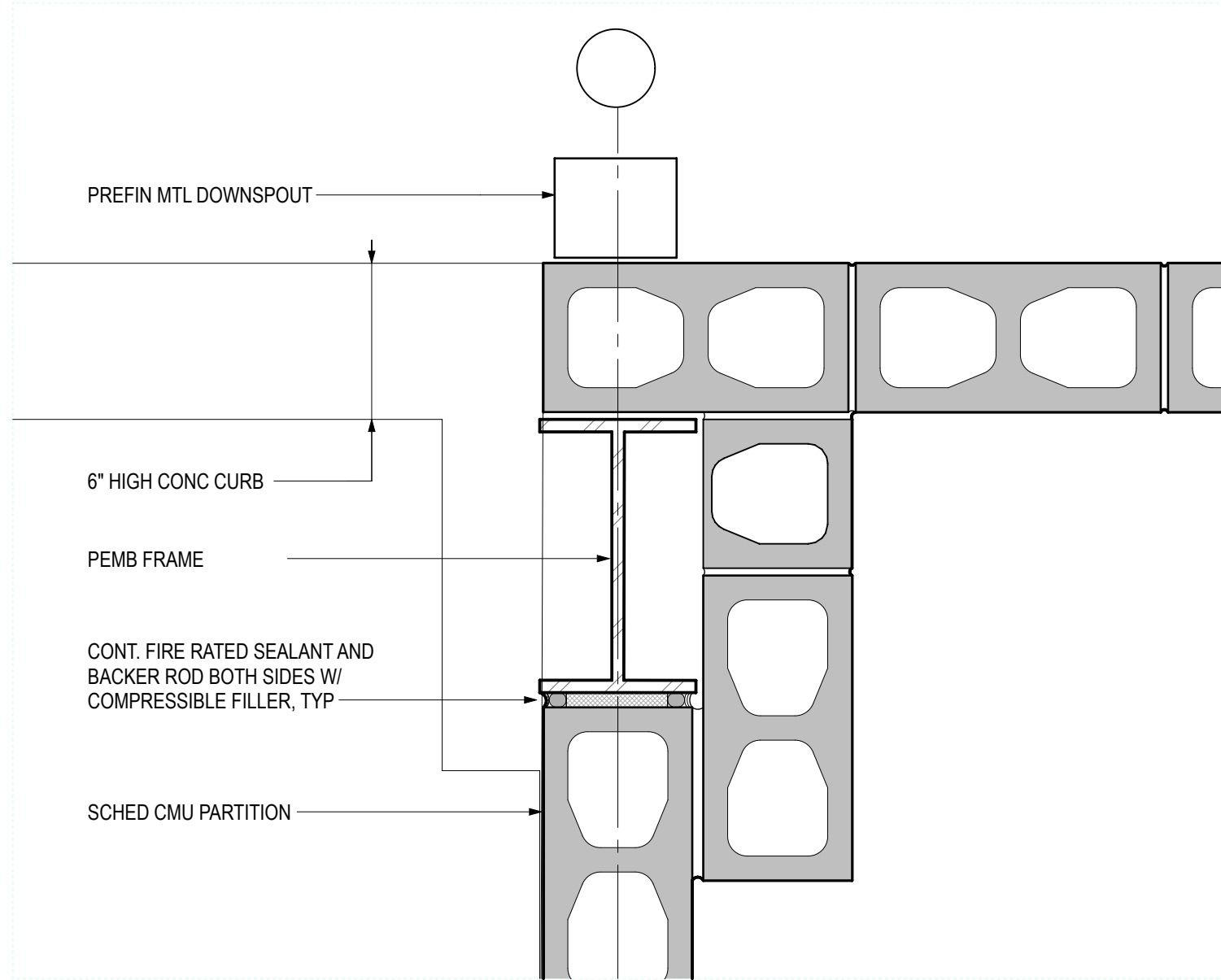
EA PROJECT NUMBER: 24013  
ARCHITECT: ALAN A CREECH  
LICENSE # 9920



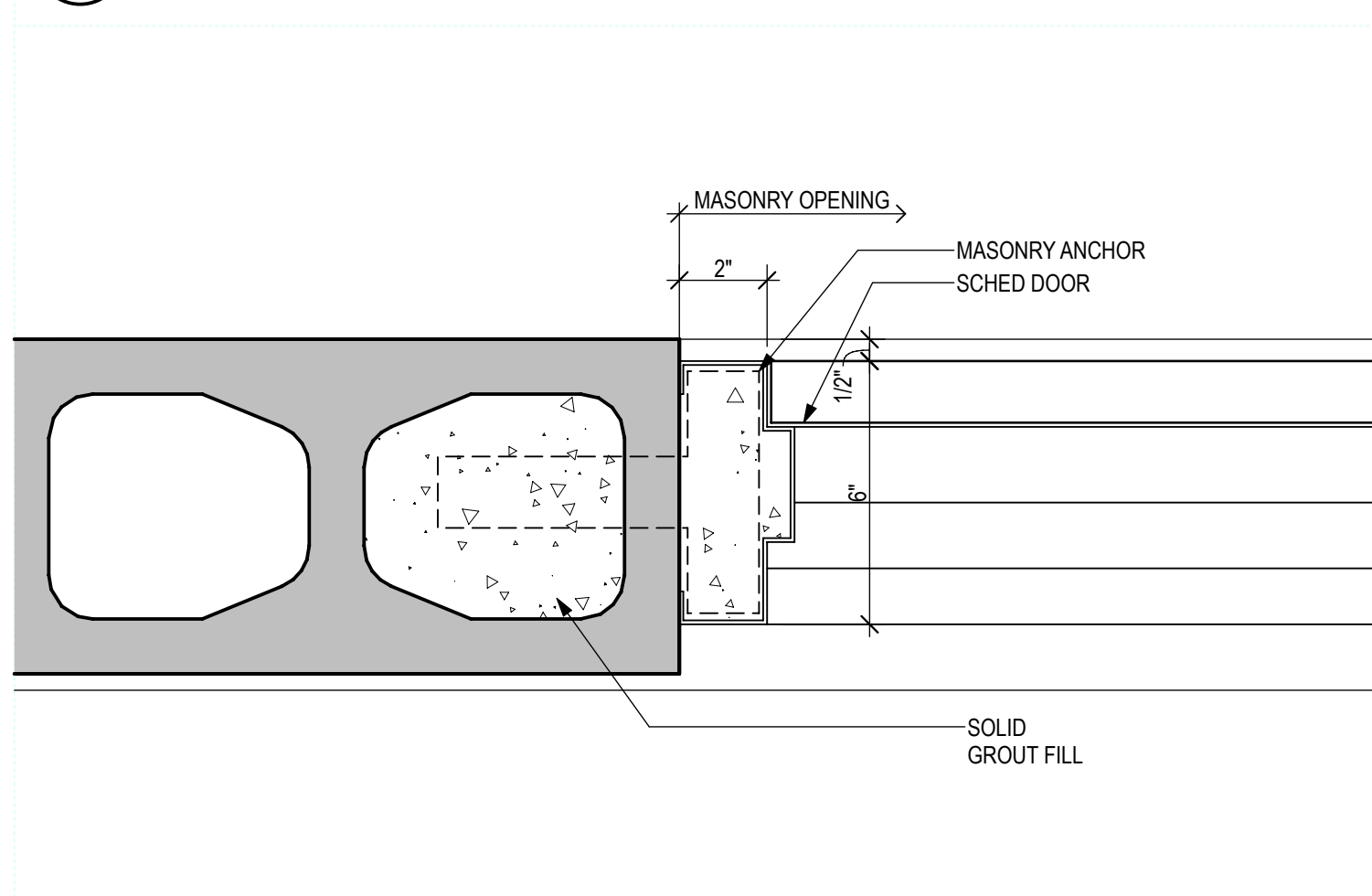
EXTERIOR WALL  
ASSEMBLIES AND SITE  
PLAN

A-003

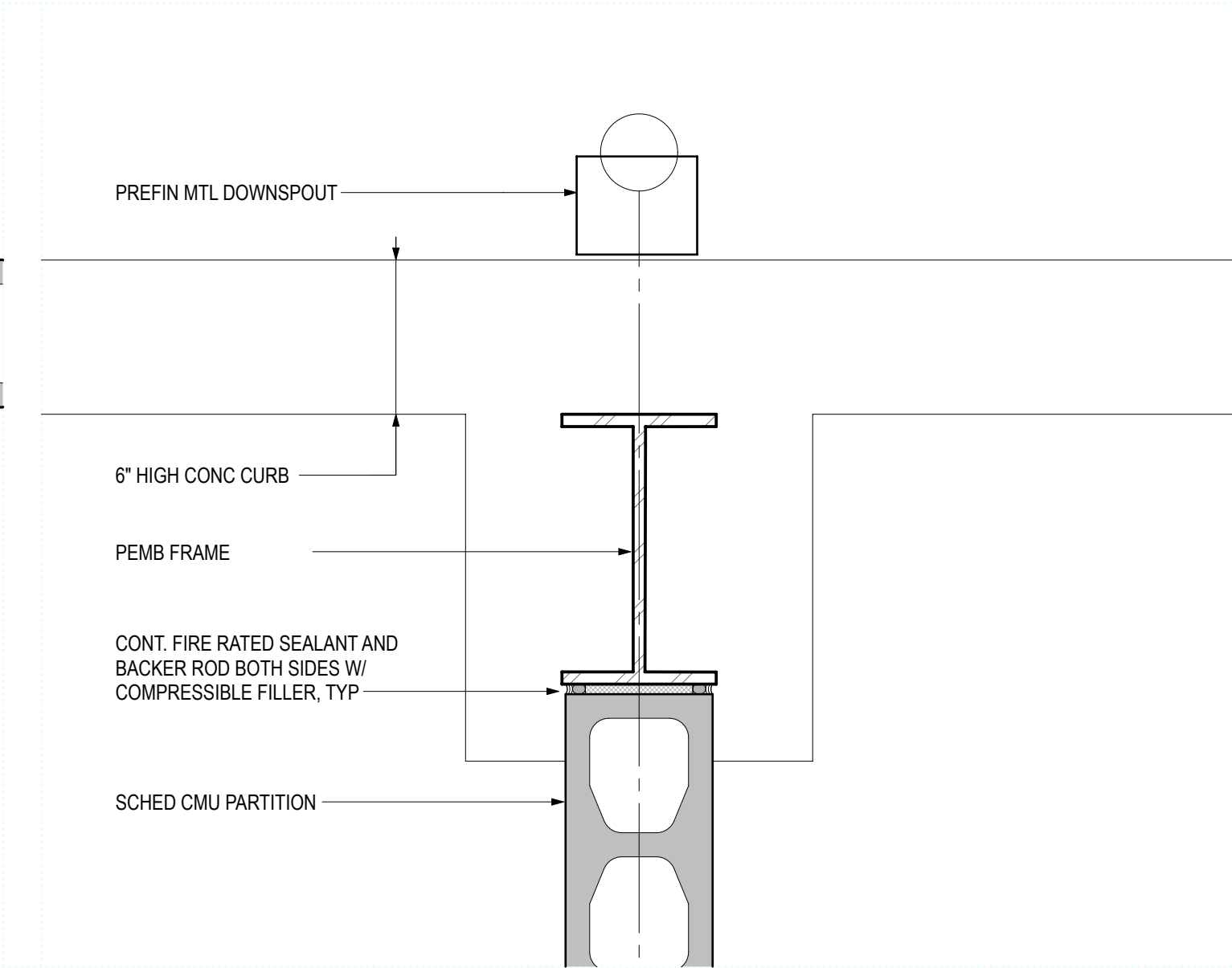
SECURITY CLASS: COMPANY USE  
C2-099700-ARC-NOT-ENA-00002-004



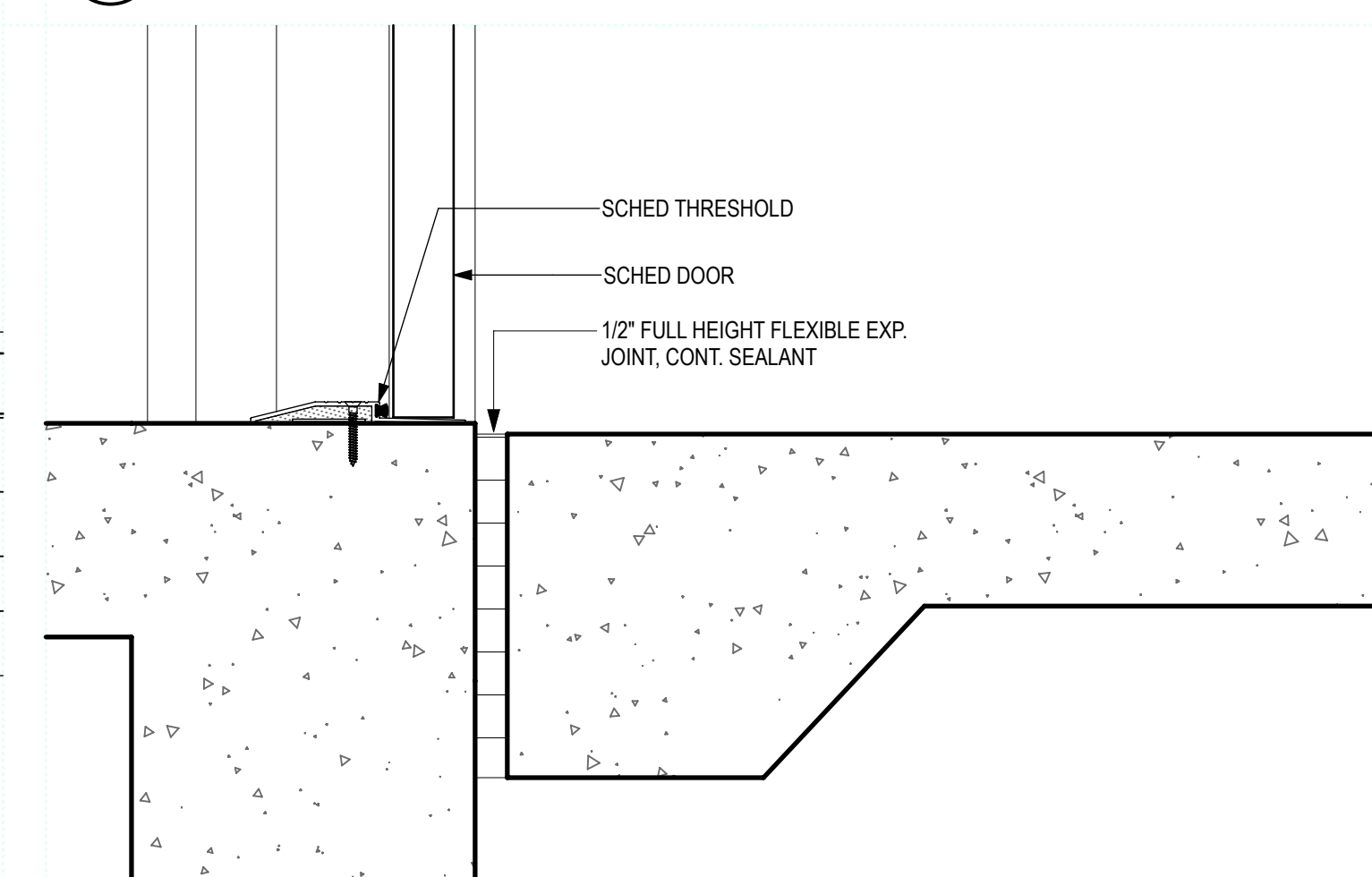
**D1** ENLARGED PLAN DETAILS  
SCALE: 1/12" = 1'-0"



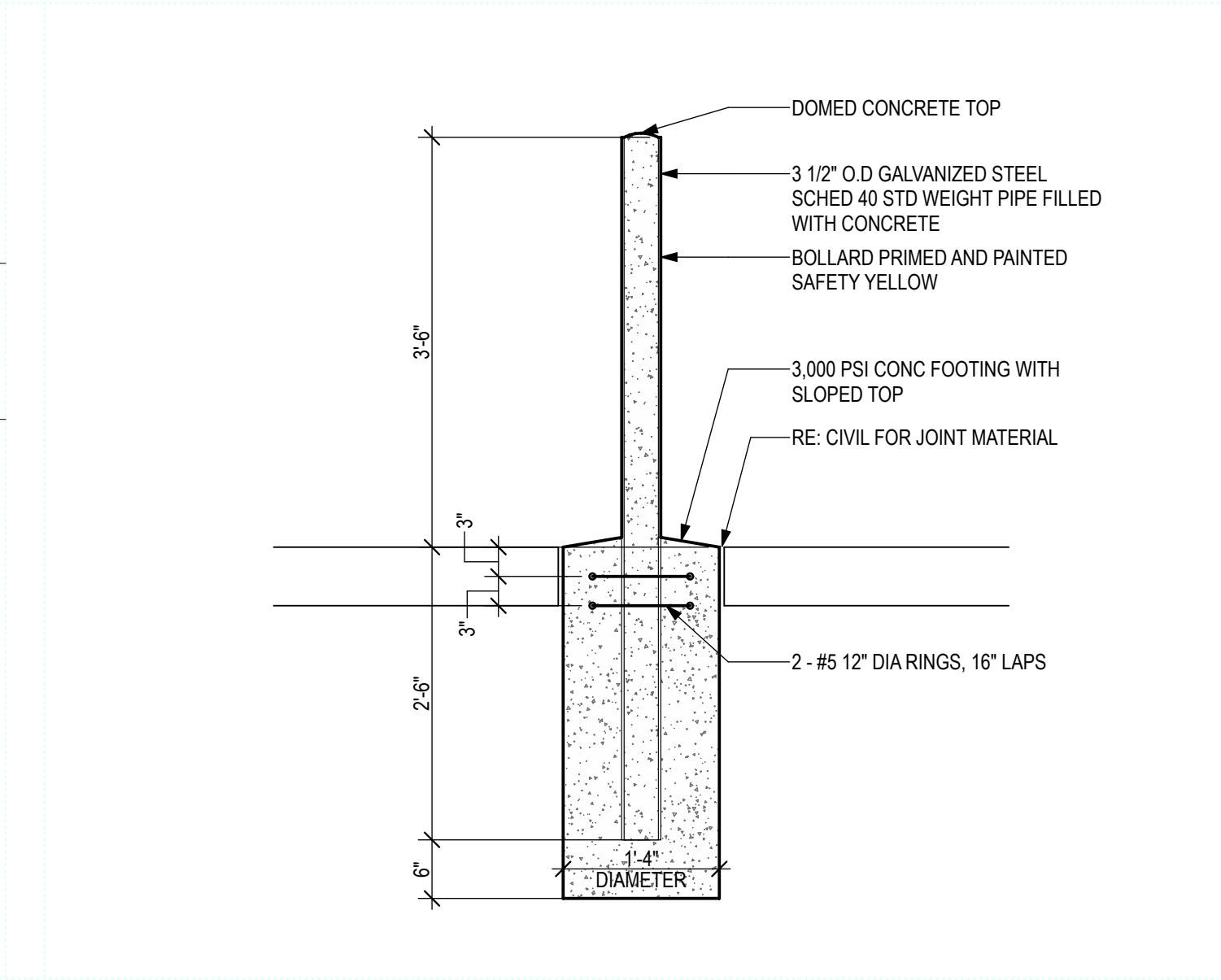
**C1** ENLARGED PLAN DETAILS 3"  
SCALE: 3" = 1'-0"



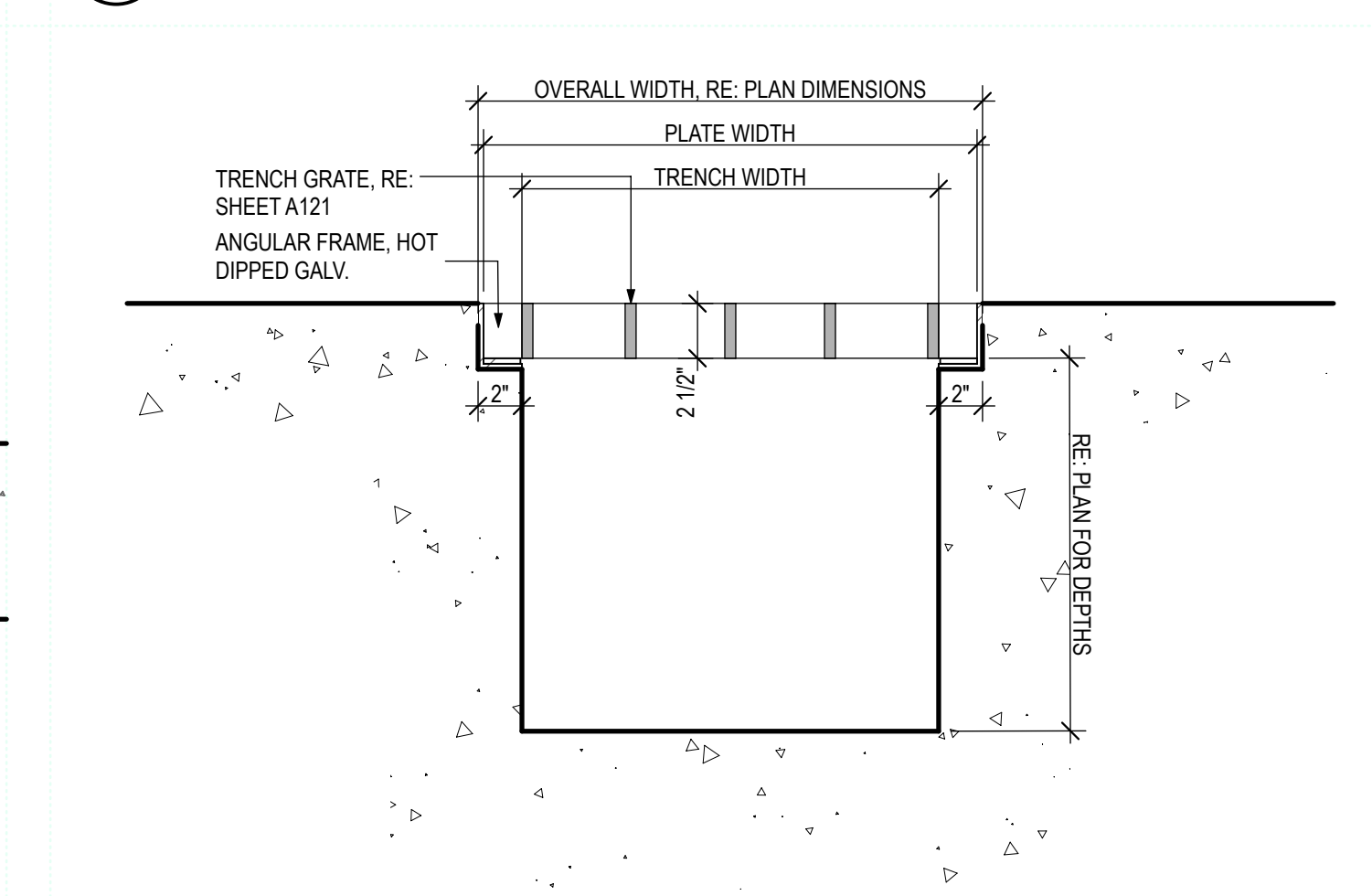
**D2** ENLARGED PLAN DETAILS  
SCALE: 1/12" = 1'-0"



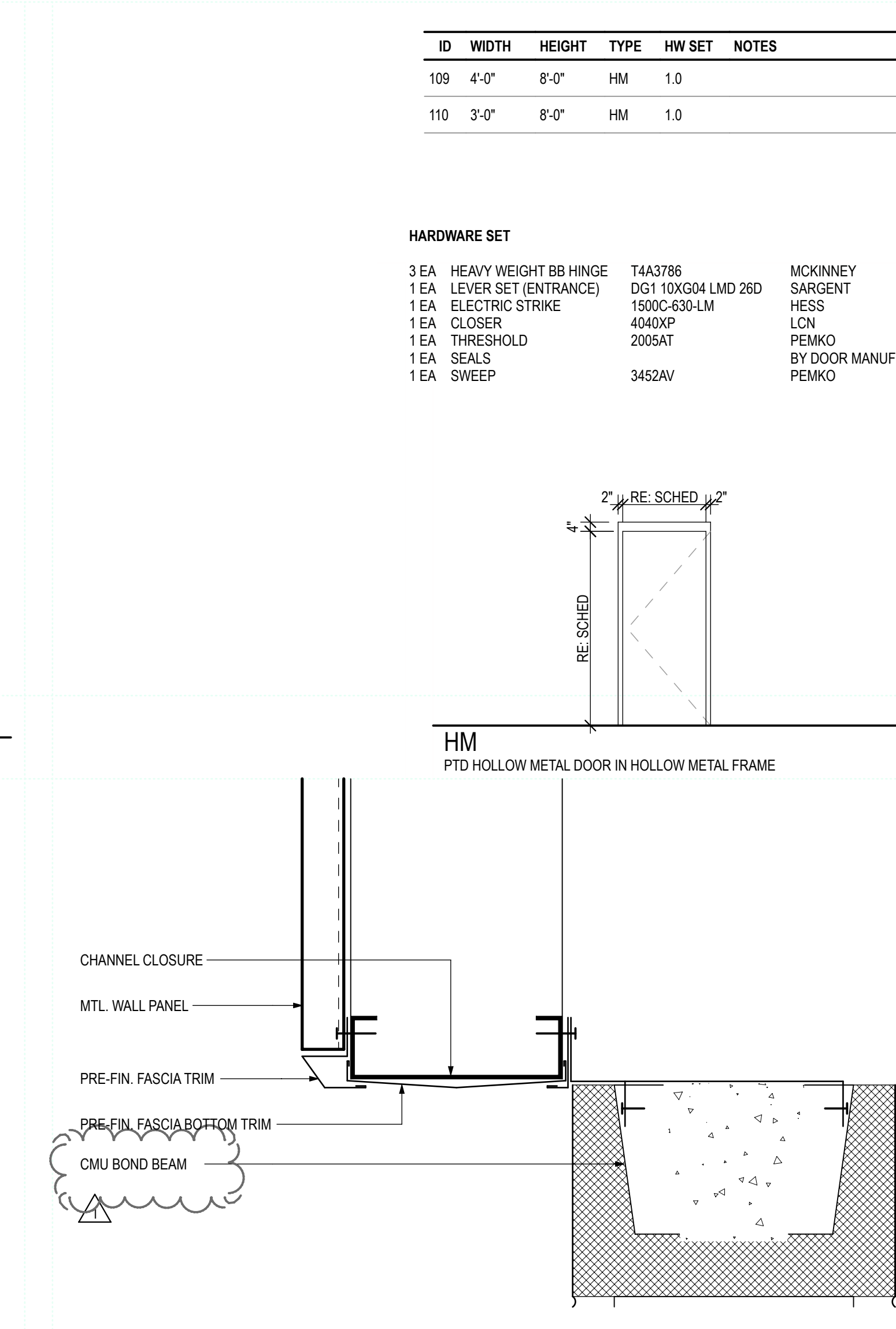
**C4** ENLARGED PLAN DETAILS 3"  
SCALE: 3" = 1'-0"



**D3** BOLLARD DETAIL  
SCALE: 3/4" = 1'-0"



**C3** TRENCH DRAIN DETAIL  
SCALE: 1/12" = 1'-0"



**C4** WALL - MTL TRIM COVER @ CMU  
SCALE: 3" = 1'-0"

ID	WIDTH	HEIGHT	TYPE	HW SET	NOTES
109	4'-0"	8'-0"	HM	1.0	
110	3'-0"	8'-0"	HM	1.0	

**HARDWARE SET**

3 EA	HEAVY WEIGHT BB HINGE	TAA3786	MCKINNEY
1 EA	LEVER SET (ENTRANCE)	DG1 10XGM LMD 26D	SARGENT
1 EA	ELECTRIC STRIKE	1500C-630-LM	HESS
1 EA	CLOSER	4040XP	LCN
1 EA	THRESHOLD	205GAT	PEMKO
1 EA	SEALS	BY DOOR MANUF	
1 EA	SWEEP	3452AV	PEMKO

**FLOOR PLAN NOTES**

**GRAPHIC LEGEND**

ROOM NAME  
[101] ROOM IDENTIFICATION

**PARTITIONS**  
REFER TO INTERIOR PARTITION TYPES  
A-000 SERIES

	PARTITION TYPE
	1 HR RATED
	2 HR RATED
	3 HR RATED
	4 HR RATED

**OPENINGS**

	DOOR ID A-610 SERIES
	FRAMED OPENING TYPE A-600 SERIES

**ELEVATION, SECTION, DETAIL MARKERS**

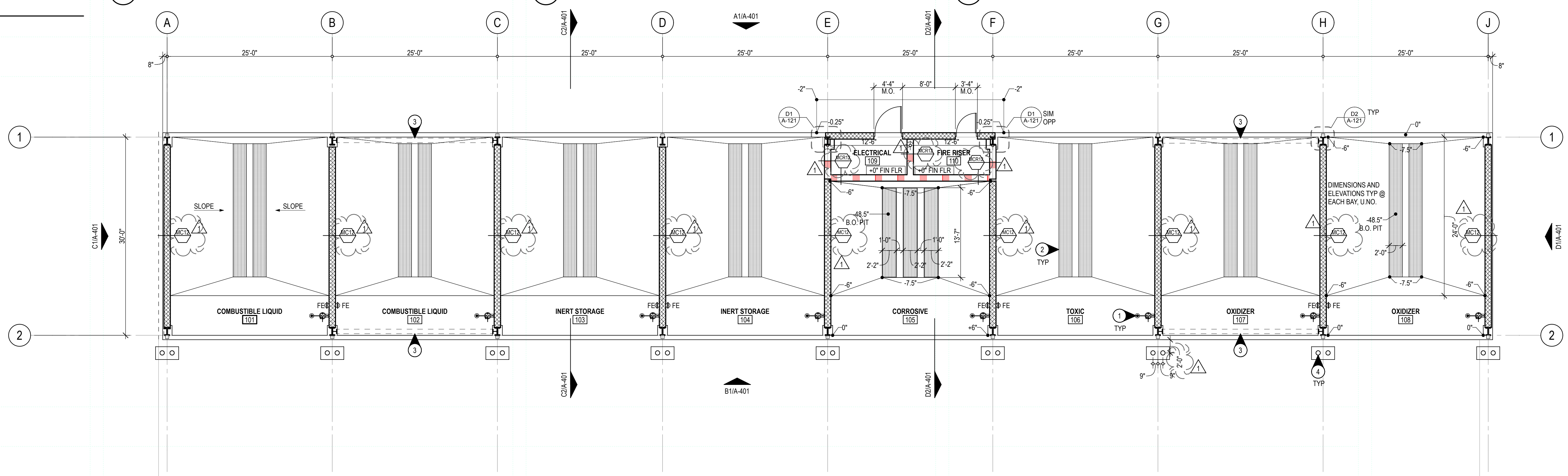
	ITEM / SHEET	BUILDING ELEVATIONS
	ITEM / SHEET	BUILDING SECTIONS
	ITEM / SHEET	WALL SECTIONS
	ITEM / SHEET	INTERIOR ELEVATIONS
	ITEM / SHEET	ENLARGED DETAIL

**GENERAL NOTES**

- A. ALL EXPOSED CONCRETE SLAB AND CURBS TO RECEIVE STONHARD STONCHEM 300 LINING SYSTEM IN LIGHT GRAY.
- B. CMU WALLS TO RECEIVE HIGH BUILD, WATER BASED TEXTURED COATING SYSTEM FOR MASONRY TO MATCH COATING SYSTEM AT OPERATIONS BUILDING.

**KEYED NOTES**

- 1 EMERGENCY ACCESSIBLE EYEWASH / SHOWER, RE: PLUMBING
- 2 HEAVY DUTY TRENCH GRATE - 2 1/2" x 3/8" (19-W-2), CB CENTERS 2" CC W/ MIN OPEN AREA OF 58% AS MANUF BY GRATING SYSTEMS.COM, RE: C3/A-201
- 3 PEMB PORTAL FRAME BRACING IN THIS BAY
- 4 CONC FILLED STEEL BOLLARD, RE: DETAILS



**A1** 1ST FLOOR PLAN  
SCALE: 1/8" = 1'-0"

**CP2 CHEMICAL STORAGE BUILDING**

DAVIS RD.  
CAMERON, LA 70631

1	2/23/25	ISSUED FOR CONSTRUCTION
0	2/13/25	ISSUED FOR CONSTRUCTION

REV	DATE	DESCRIPTION
-----	------	-------------

EA PROJECT NUMBER: 24013  
ARCHITECT: ALAN A. CREECH  
LICENSE # 9820



**FLOOR PLAN AND DETAILS**

**A-121**

SECURITY CLASS: COMPANY USE  
C2-099700-ARC-BLD-ENA-000002-001

CEILING PLAN NOTES

GRAPHIC LEGEND

CONT PARTITION TO DECK/STRUCTURE

GENERAL NOTES

A. DEVICES AND FIXTURES INDICATED ON ARCHITECTURAL CEILING PLAN ILLUSTRATE DESIGN INTENT FOR LOCATIONS AND ALIGNMENTS. REFER TO ELECTRICAL FOR CIRCUITING, DEVICE INFORMATION, AND ADDITIONAL REQUIREMENTS

KEYED NOTES

1 LIGHT FIXTURES, TYP. RE: ELEC DWGS

ROOF PLAN NOTES

REFER TO EXTERIOR ASSEMBLIES FOR ITEMS DESIGNATED THUS:

ROOF-X ROOF ASSEMBLY

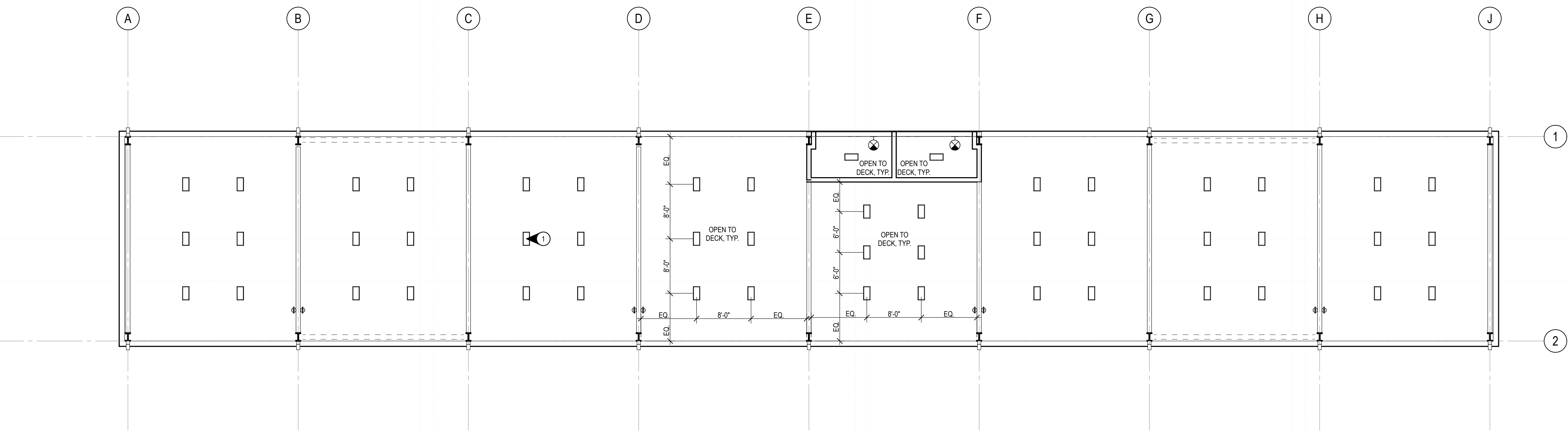
GENERAL NOTES

A.

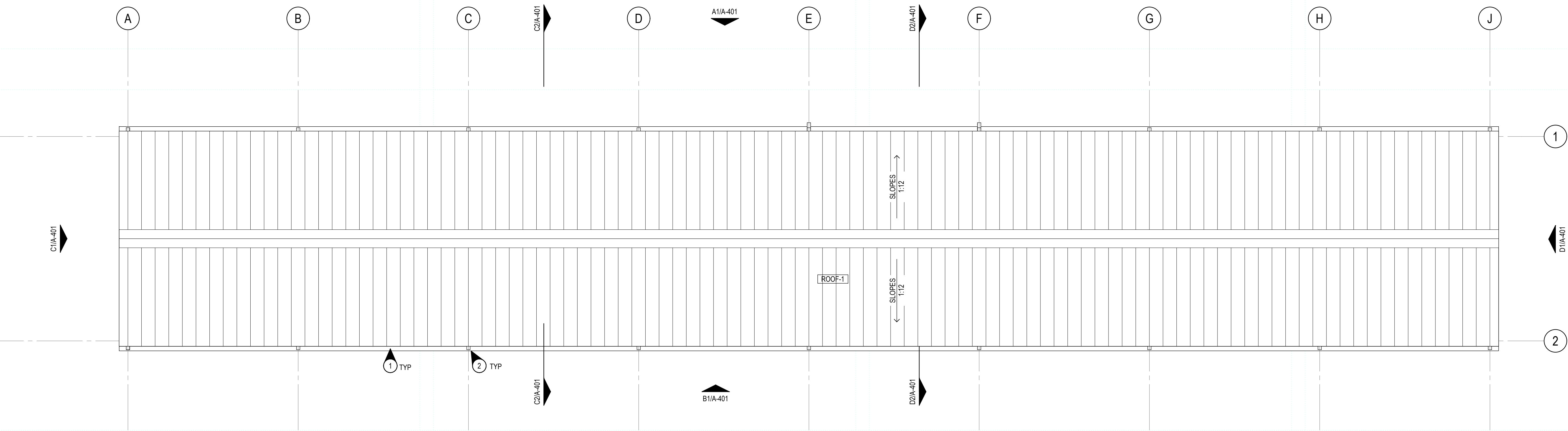
KEYED NOTES

01 PREFIN MTL GUTTER

02 PREFIN MTL DOWNSPOUT



B1 1ST FLOOR CEILING PLAN  
SCALE 1/8" = 1'-0"



A1 ROOF PLAN  
SCALE 1/8" = 1'-0"

CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

REV	DATE	DESCRIPTION
0	2/13/25	ISSUED FOR CONSTRUCTION

EA PROJECT NUMBER: 24013  
ARCHITECT: ALAN A. CREECH  
LICENSE # 9820

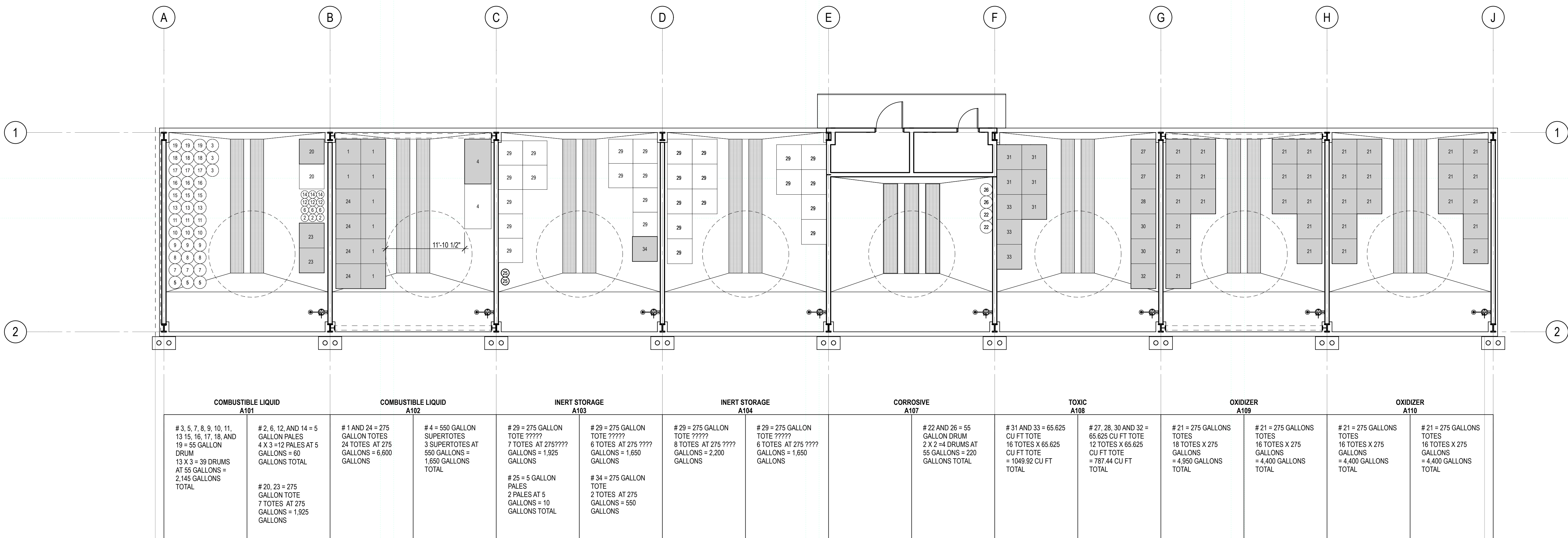


ROOF, CEILING PLAN AND  
DETAILS

A-131

SECURITY CLASS: COMPANY USE  
C2-099700-ARC-BLD-ENA-00002-002

ID	MATERIAL
1	ANTI FOAM
2	OIL, JAX BIO-GUARD GEAR OIL 150
3	OIL, JAX BIO-GUARD HYDRAULIC ISO 32
4	OIL, JAX COMPRESYN HFC ISO 220
5	OIL, JAX COMPRESYN VFC HD 32
6	OIL, JAX PREMIUM R-P OIL
7	OIL, JAX PYRO-FLOW EHC 46
8	OIL, MOBIL 630
9	OIL, MOBIL 632
10	OIL, MOBIL 732
11	OIL, MOBIL DELVAC 1300 SUPER, 15W40, DIESEL ENGINE OIL
12	OIL, MOBIL DTE 10 EXCEL 46
13	OIL, MOBIL DTE EXTRA HEAVY
14	OIL, MOBIL DTE MEDIUM
15	OIL, MOBIL JET OIL 254
16	OIL, MOBIL NUTO H 46
17	OIL, MOBIL SHC 624
18	OIL, MOBIL SYNTURIN 6, BARRIER FLUID
19	OIL, MOBIL SHC 626
20	UCARSOL GT-8715
21	BIOTROL 12.5
22	CORRSHIELD NT4202
23	FIRE FIGHTING FOAM
24	KURIVERTER IK110
25	PROPANE
26	SPECTRUS NS 1106
27	ALKA PRO 20M
28	ALKA PRO 50M
29	CALGON SGL8X30
30	DECHLOR 104
31	K BAC 7015
32	PROCLEAN 200
33	PROCORR 2000
34	RO 503



HAZARDOUS MATERIAL PLAN  
NOTES

GRAPHIC LEGEND

- # HAZARDOUS MATERIAL ID
- SINGLE STACK
- DOUBLE STACK

CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

0	2/13/25	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION

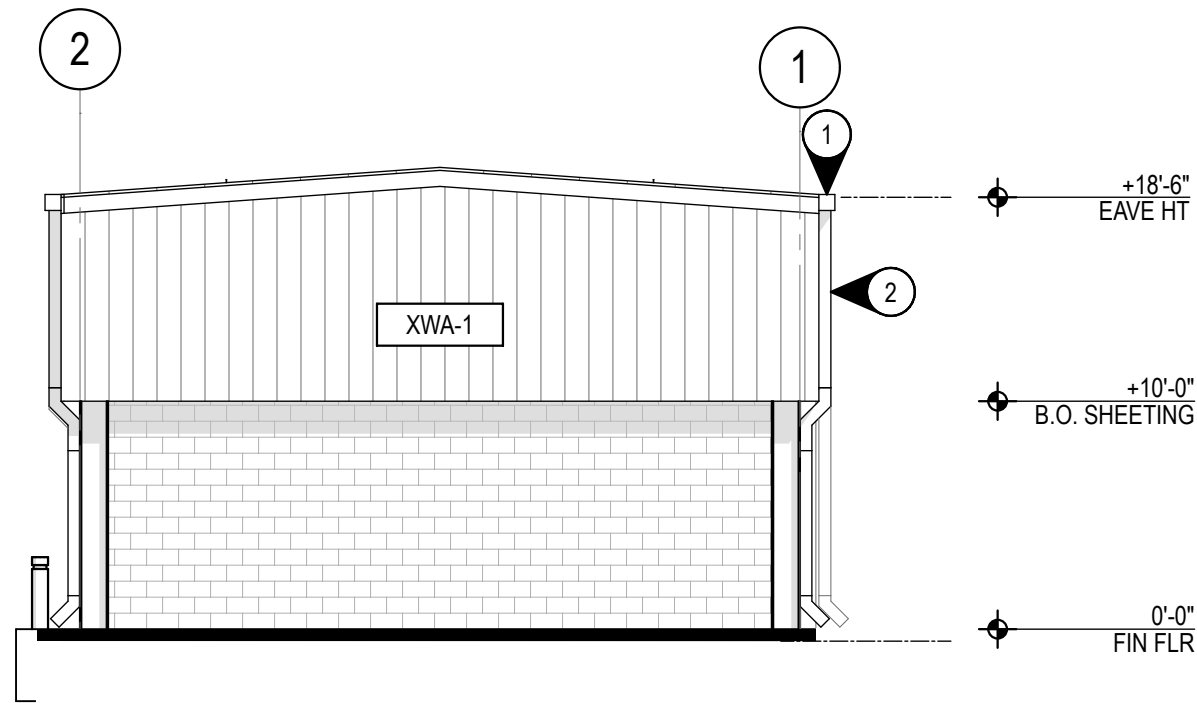
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ARCHITECT: ALAN A CREECH  
LICENSE # 9920



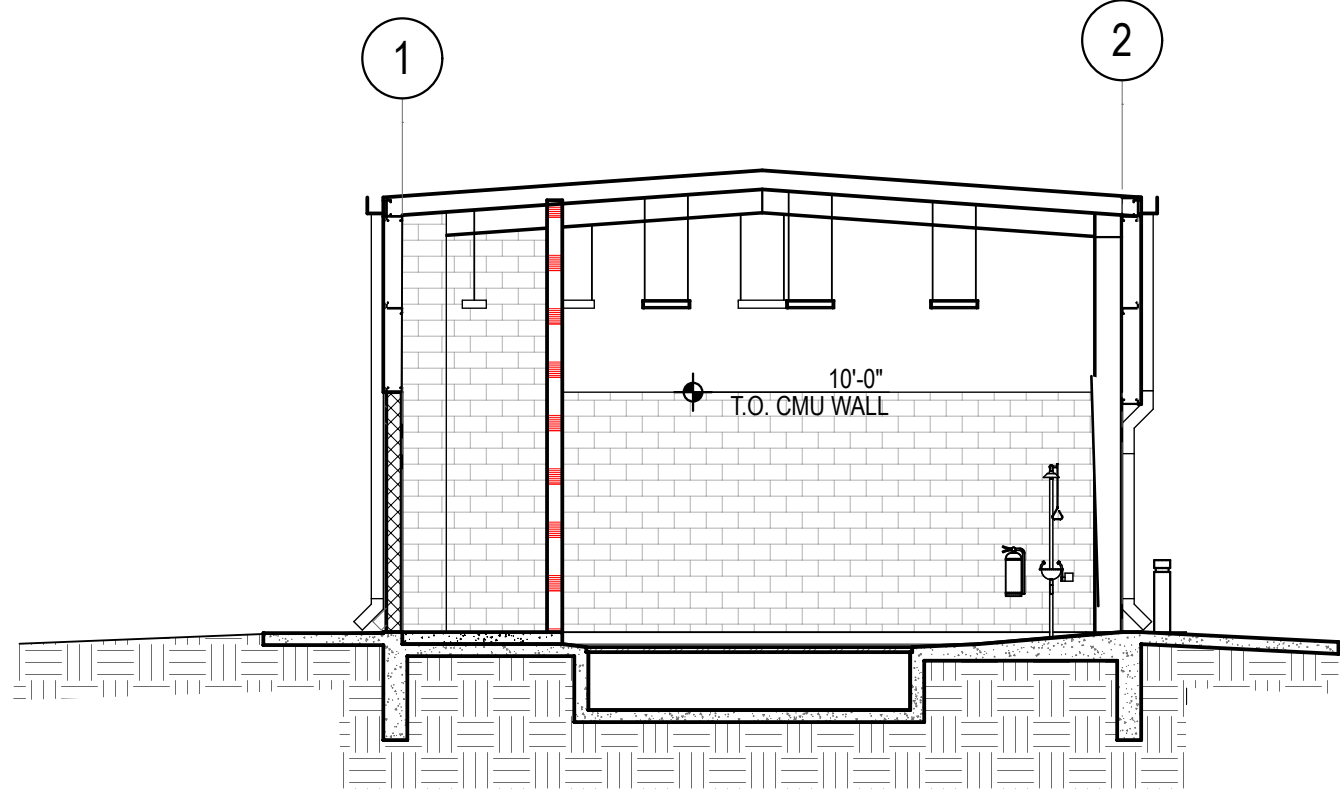
HAZARDOUS MATERIAL  
PLAN

A-161

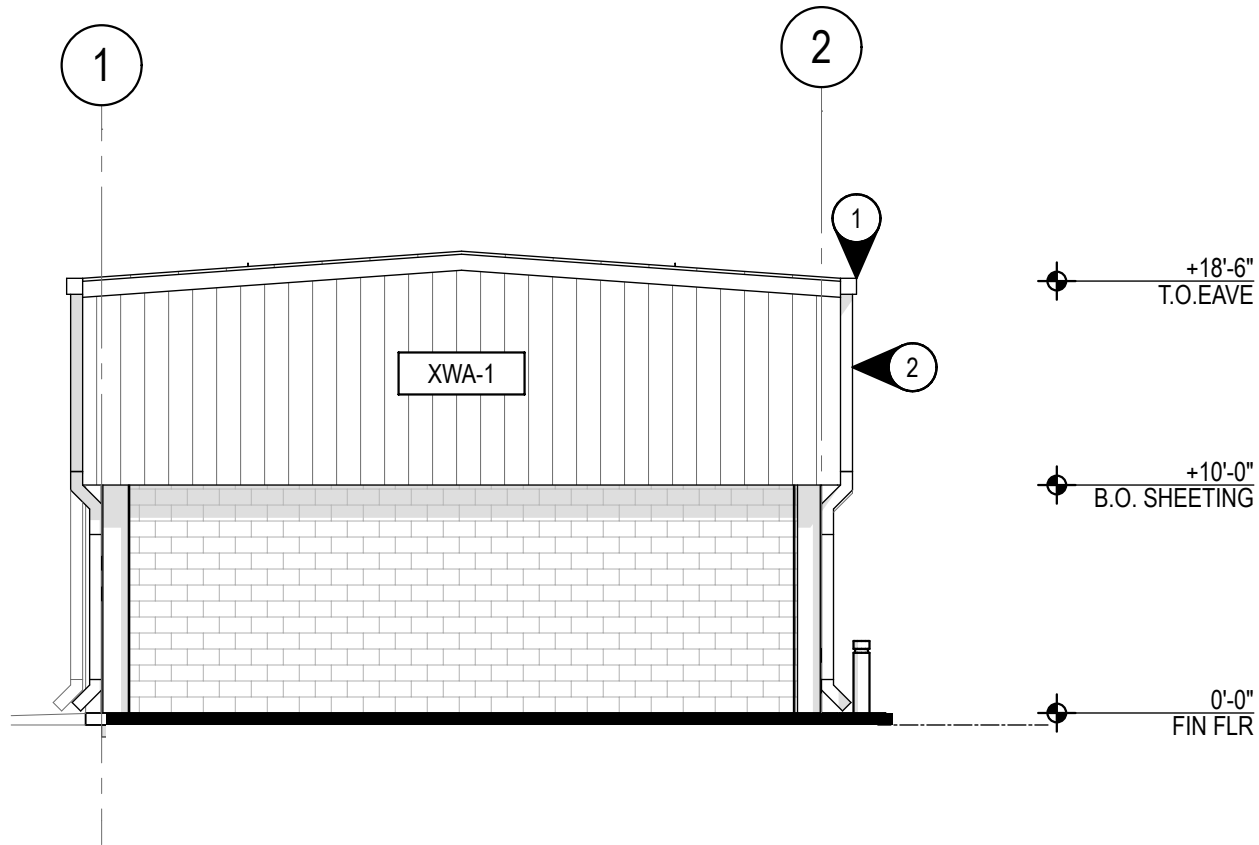
SECURITY CLASS: COMPANY USE  
C2-099700-ARC-BLD-ENA-00002-004



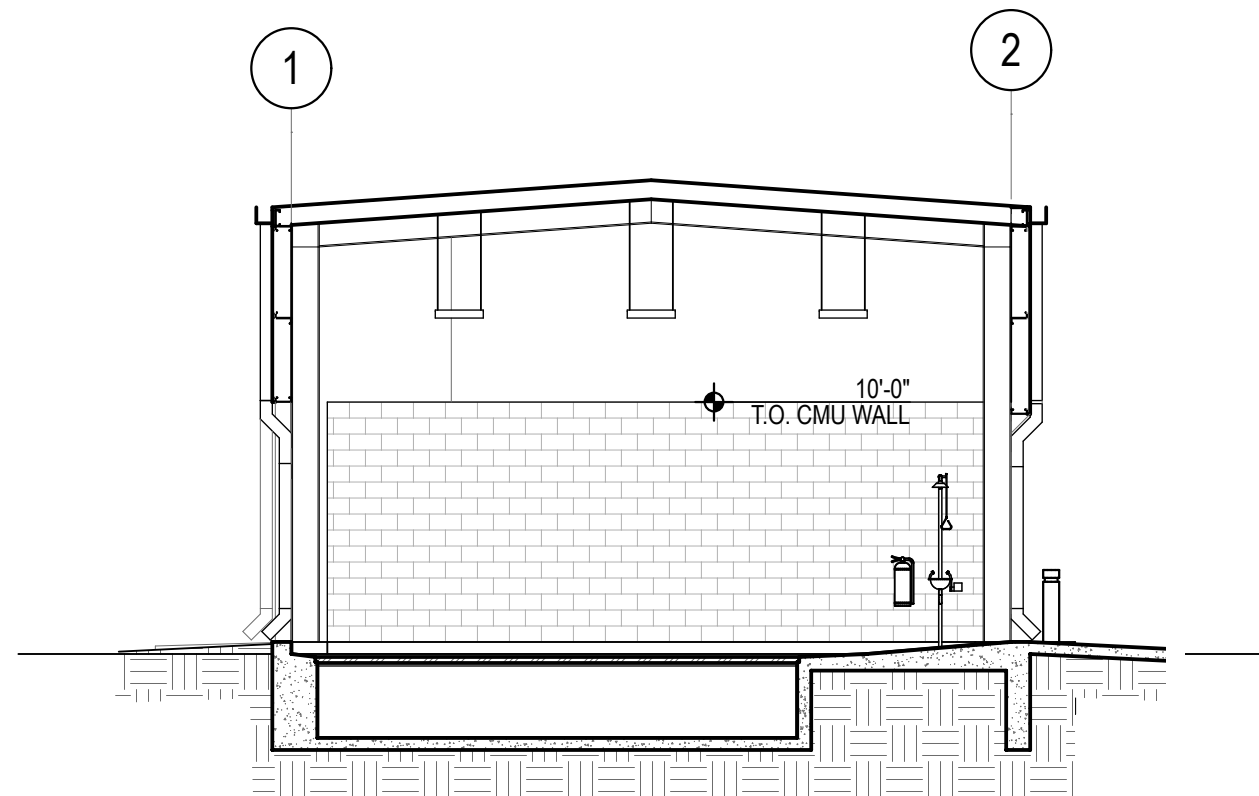
D1 NORTH ELEVATION  
SCALE 1/8" = 1'-0"



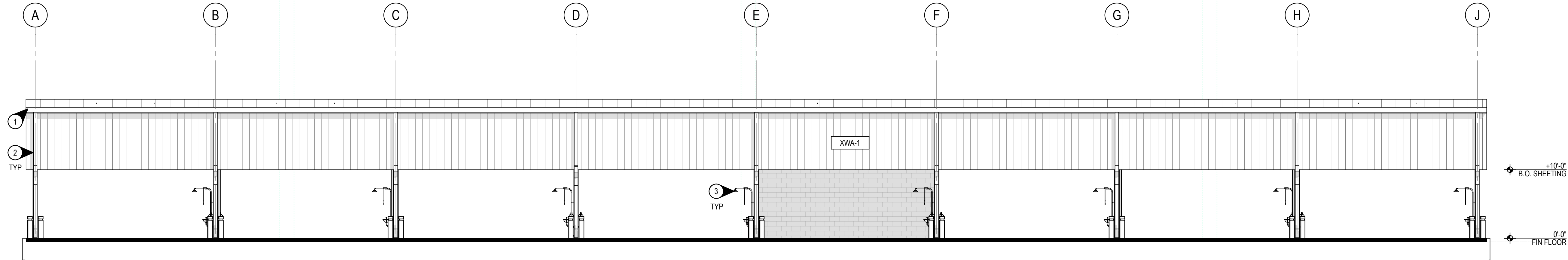
D2 BUILDING SECTION  
SCALE 1/8" = 1'-0"



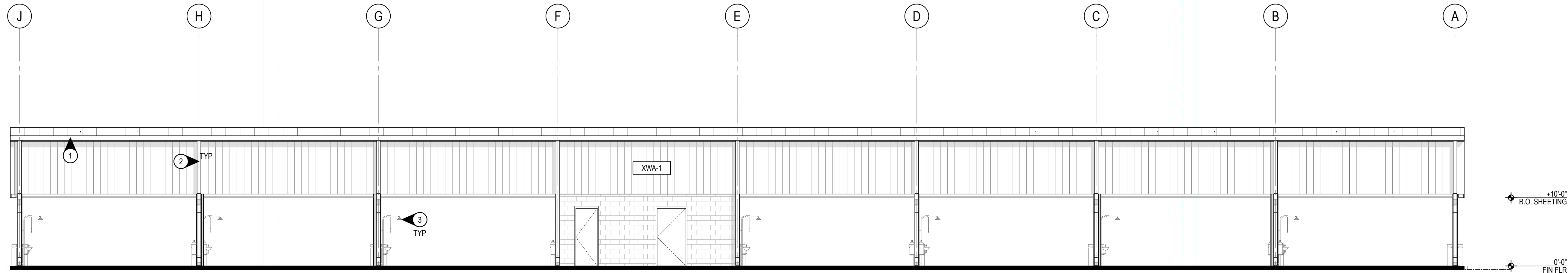
C1 SOUTH ELEVATION  
SCALE 1/8" = 1'-0"



C2 BUILDING SECTION  
SCALE 1/8" = 1'-0"



B1 EAST ELEVATION  
SCALE 1/8" = 1'-0"



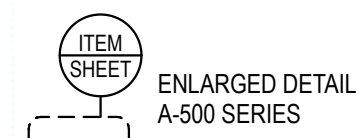
A1 WEST ELEVATION  
SCALE 1/8" = 1'-0"

## ELEVATION/SECTION NOTES

### GRAPHIC LEGEND

REFER TO EXTERIOR ASSEMBLIES FOR ITEMS DESIGNATED  
THUS:

- XWA- EXTERIOR WALL ASSEMBLY  
ROOF- ROOF ASSEMBLY



CONCRETE MASONRY UNIT  
WITH ELASTOMETRIC  
COATING XP-1

### KEYED NOTES

- 01 PREFINISHED METAL GUTTER  
02 PREFINISHED METAL DOWNSPOUT  
03 EMERGENCY ACCESSIBLE SHOWER AND EYE WASH STATION  
RE: PLUMBING

## CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

REV	DATE	DESCRIPTION
0	2/13/25	ISSUED FOR CONSTRUCTION


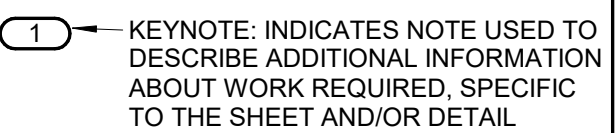
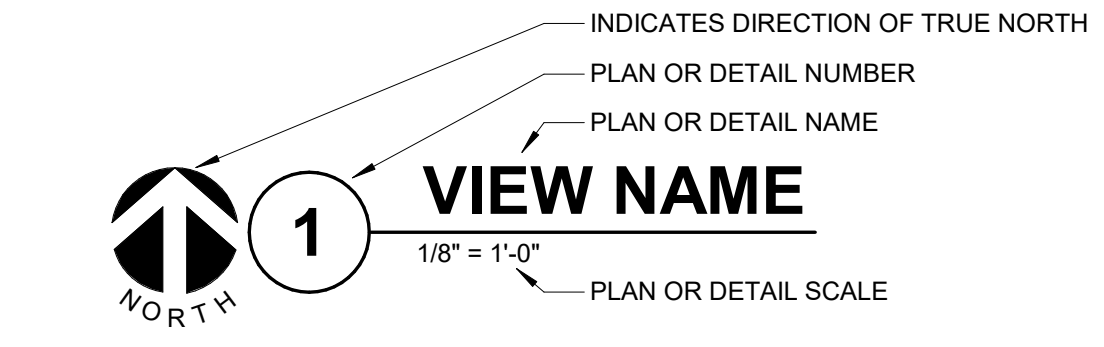
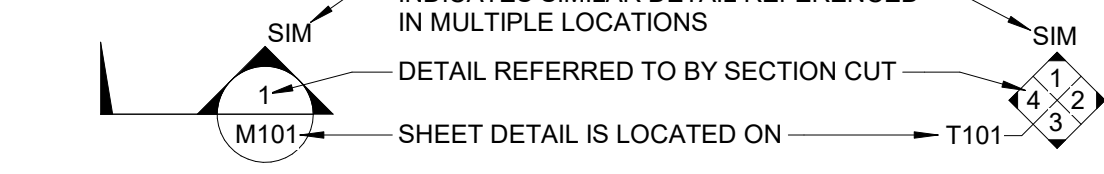

EA PROJECT NUMBER: 24013  
ARCHITECT: ALAN A CREECH  
LICENSE # 9920



EXTERIOR ELEVATIONS  
AND DETAILS

A-401

SECURITY CLASS: COMPANY USE  
C2-099700-ARC-ELV-ENA-00002-001

VIEW KEY	
	
	
	
<b>LINE TYPE AND TAG KEY:</b>	
NEW WORK BY THIS CONTRACTOR (WIDE LINE)	
----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)	
----- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	
EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)	
----- EXISTING	
----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)	
----- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	
HALFTONING DOES NOT MODIFY SCOPE	
'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING	
'TAG'-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST	
 INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL	

APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:	
BUILDING CODE:	IBC 2021 EDITION
PLUMBING CODE:	IPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
LOCAL BUILDING CODE:	LOUISIANA STATE UNIFORM CONSTRUCTION CODE


CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

HVAC ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DN	DOWN
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EP	ELECTRICAL TO PNEUMATIC VALVE
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
PS	PRESSURE SWITCH
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

## MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
  - CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
  - DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS, WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
  - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
  - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
  - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
  - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
  - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
  - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
  - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
  - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.

HVAC SHEET INDEX	
M-000	HVAC COVERSHEET - PP, V
M-201	LEVEL 01 PLAN - HVAC
M-400	HVAC DETAILS
M-500	HVAC DIAGRAMS
M-600	HVAC SCHEDULES
GRAND TOTAL: 5	



4630 N LOOP 1604 WEST  
SUITE 209  
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Texas Firm Registration #F-34382

0 1 2 3  
REV. SCALE IN INCHES

PROJECT #24004360.00

## VG CP2 CHEMICAL STORAGE BUILDING

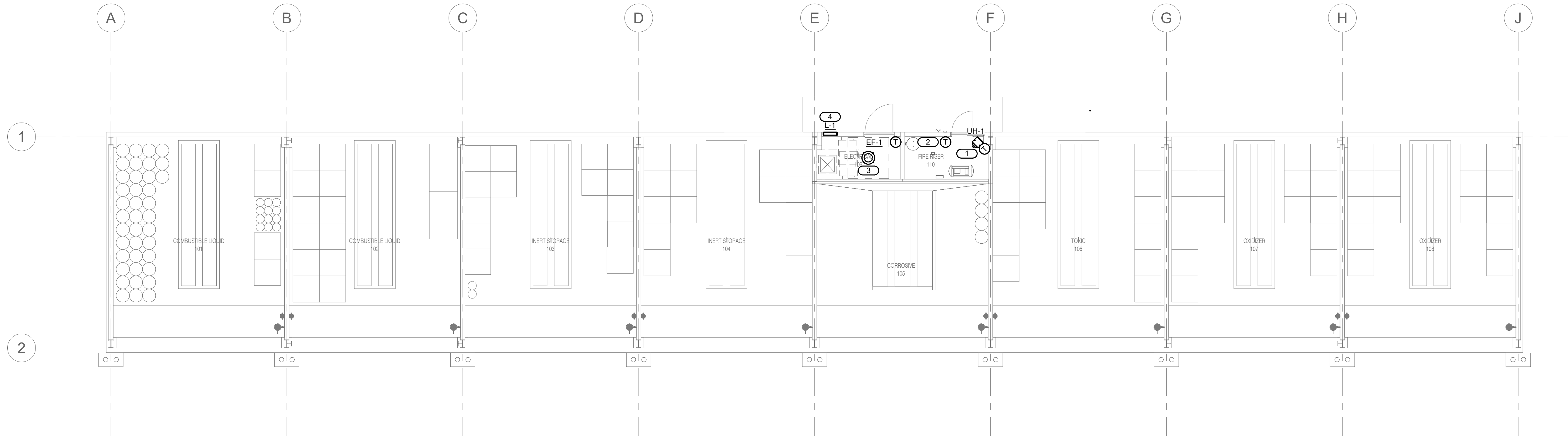
DAVIS RD.  
CAMERON, LA 70631

REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION



## HVAC COVERSHEET - PP, V

# M-000



**KEYNOTES:**

1. THERMOSTAT INTERNAL TO UNIT HEATER.
2. THERMOSTAT FOR SPACE TEMPERATURE MONITORING.
3. INSTALL EXHAUST FAN ON ROOF.
4. INSTALL LOUVER IN WALL 18" ABOVE FINISHED FLOOR TO ALLOW AIRFLOW INTO SPACE.

**1 LEVEL 01 PLAN - HVAC**  
1/8" = 1'-0"

VG CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION

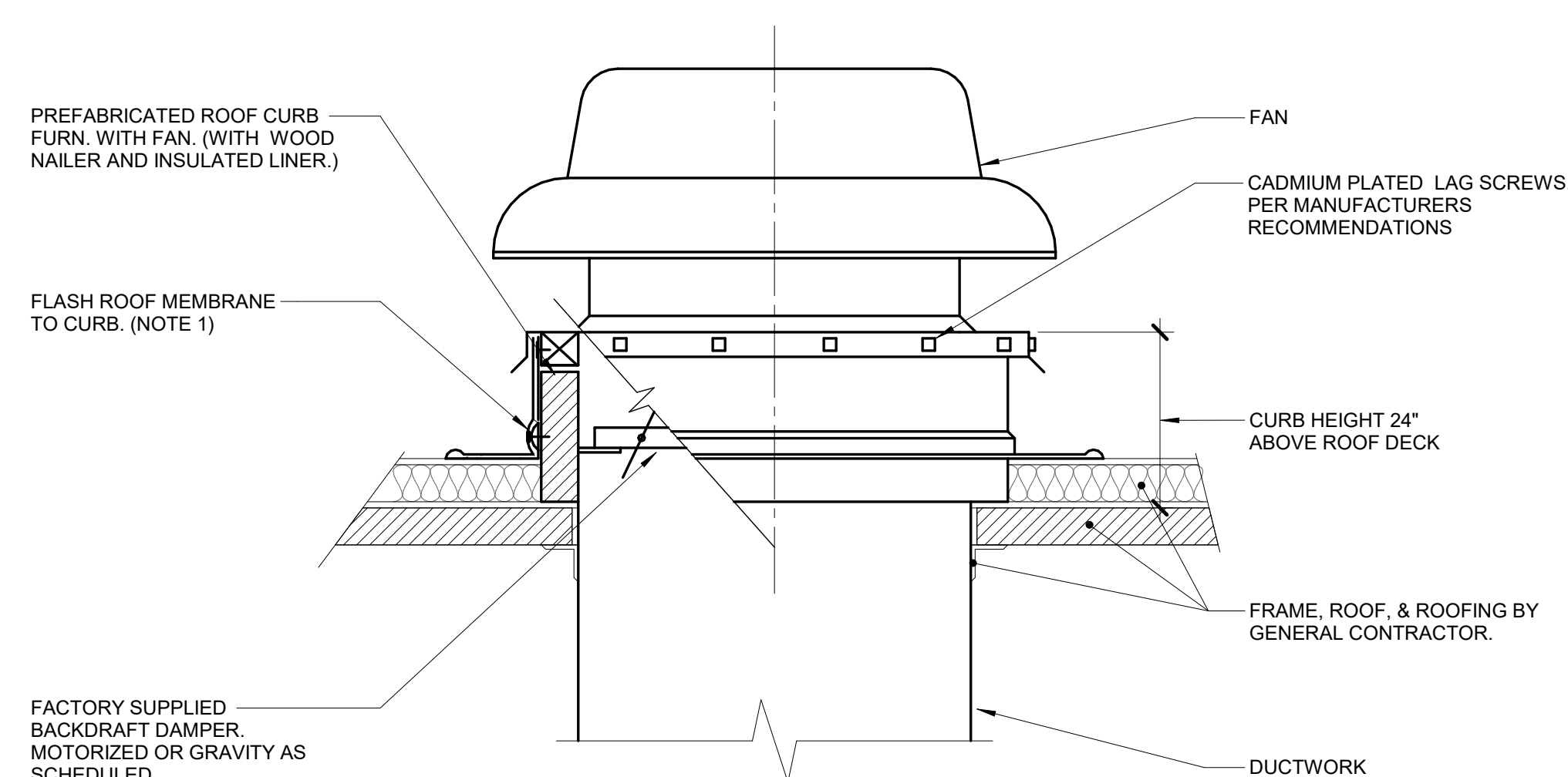
DAVID WAYNE BOEDENSCHATT  
LICENSE NO. 00455857  
MECHANICAL ENGINEER  
02.13.2025  
EXP. 09.30.2026

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Texas Firm Registration #F-34382  
REV. SCALE IN INCHES  
0 1 2 3  
PROJECT #24004360.00

LEVEL 01 PLAN - HVAC

M-201

SECURITY CLASS: COMPANY USE  
C2-099700-HVC-BLD-ENA-00002-001



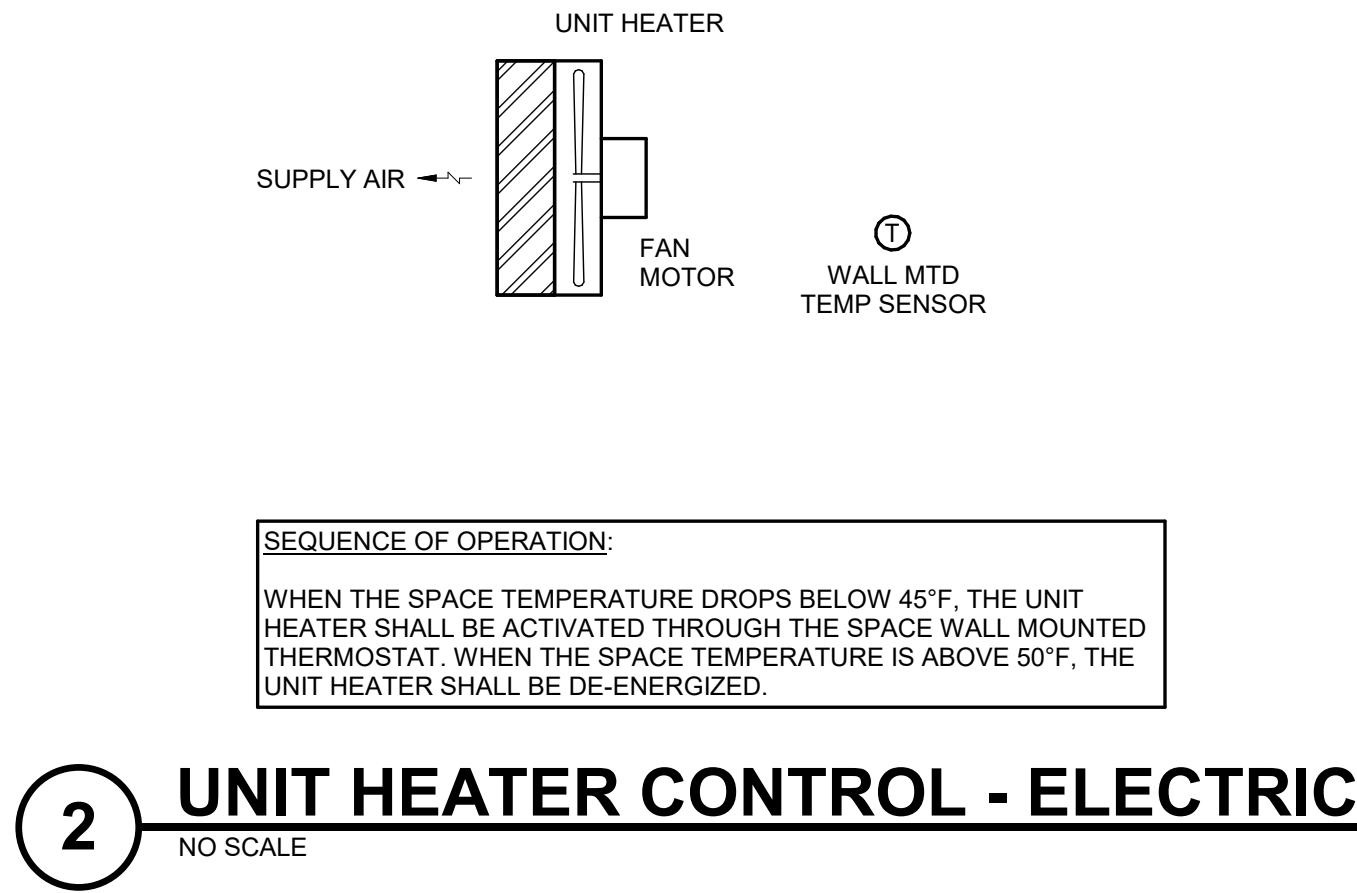
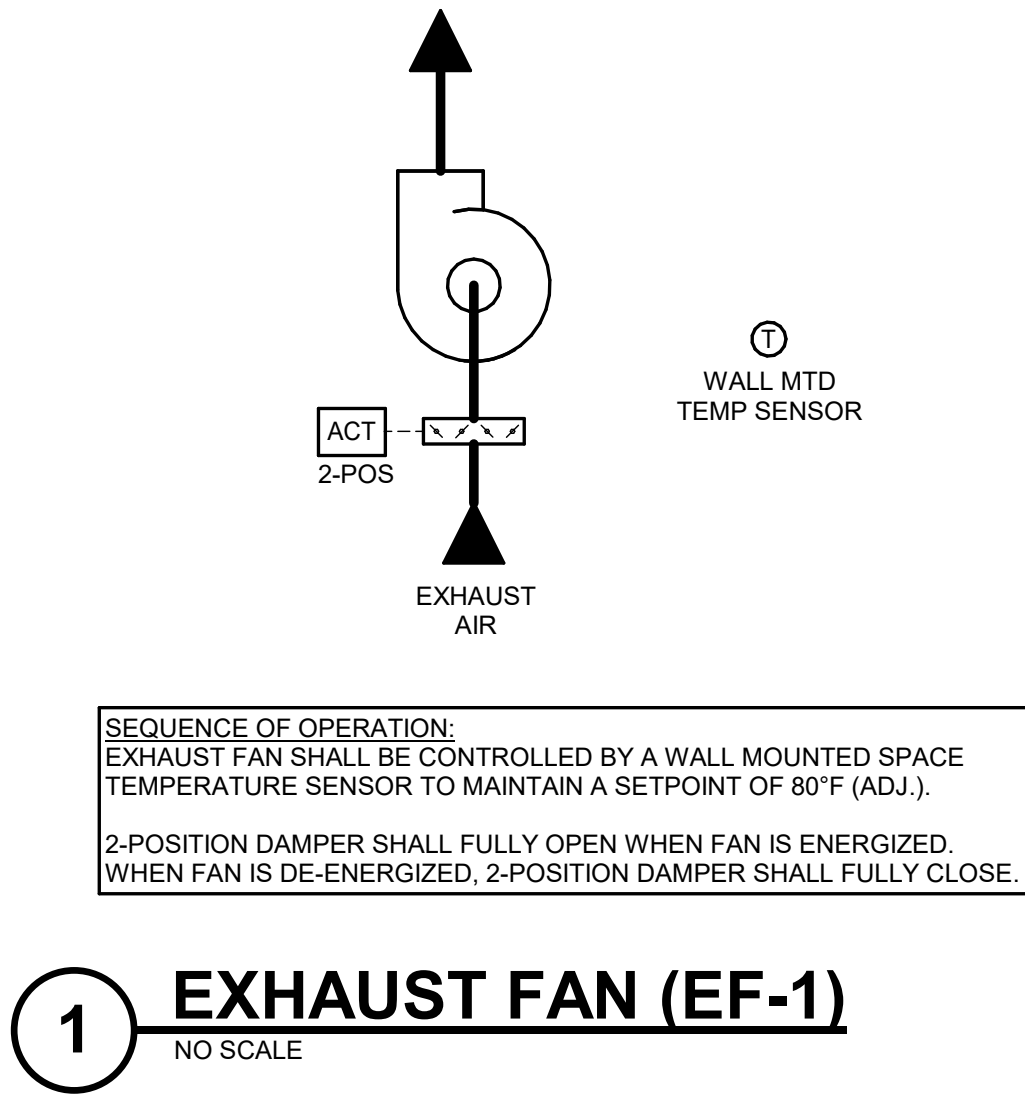
## 1 ROOF FAN/HOOD CURB

NO SCALE  
NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.

0	02/13/2025	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION





REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION





## NOTES:

1. PROVIDE WITH UNIT MOUNTED THERMOSTAT. INITIAL SETPOINT SHALL BE 45°F.

TAG NAME	AREA SERVED	CONFIGURATION	CFM	HEATING ELEMENT			VOLTAGE	ELECTRICAL						MODEL	MANUFACTURER	NOTES	
				NUMBER OF STAGES	TOTAL KW (QTY * KW)			PHASES	DISCONNECT		CONTROLLER/ STARTER						
					QTY	KW			BY (NOTE A)	BY (NOTE B)	BY (NOTE A)	BY (NOTE B)	SCCR				TEMPERATURE
WH-1	110 FIRE RISER	HORIZONTAL	380	1	1	5	208	3	FC	NE	TYPE	MFR	5000	THERMOSTAT	MOQUINE	HE65Q	NOTE 1

## NOTES:

1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
2. PROVIDE UNIT WITH WALL MOUNTED THERMOSTAT.

		ELECTRICAL (NOTE 1)										WEIGHT	MANUFACTURER	MODEL	NOTES					
TAG NAME	AREA SERVED	CFM	S.P. IN W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	CURB TYPE (NOTE G)	DISCONNECT		CONTROLLER/ STARTER										
								BHP (NOTE E)	MHP (NOTE E)	VOLTAGE	PHASES					BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR
EF-1	108 ELECTRICAL	300	0.26	1071	DIRECT	4.3	MFR	0.03	0.1	120	1	MFR	NF	MFR	ECM	5000	28	GREENHECK	G-085-VG	

## NOTES:

1. COORDINATE FINISH WITH ARCHITECT.

TAG NAME	AREA SERVED	CFM	SIZE (INCHES)		FREE AREA VELOCITY	S.P. IN. W.C.	FINISH	MANUFACTURER	MODEL	NOTES
			WIDTH	HEIGHT						
L-1	109 ELECTRICAL	300	24	12	583	0.13	NOTE 1	GREENHECK	EHV-550	

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND

INSTALLED BY:  
MFR = MANUFACTURER  
EC = ELECTRICAL CONTRACTOR.  
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY  
ELECTRICAL CONTRACTOR.  
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY  
ELECTRICAL CONTRACTOR.  
TCC = TEMPERATURE CONTROL CONTRACTOR

**B. DISCONNECT TYPE:**  
CB = CIRCUIT BREAKER  
F = FUSED  
NF = NON-FUSED  
PLUG = PLUG AND CORD

C. CONTROLLER STARTER TYPE:

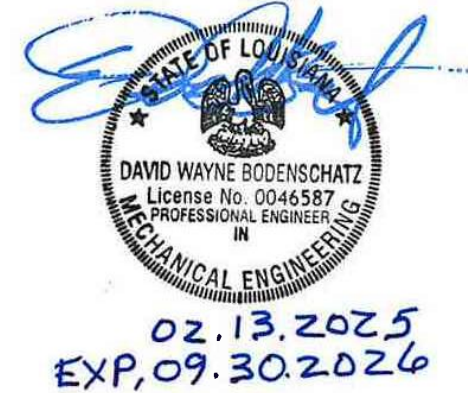
FV = FULL VOLTAGE  
WYE = WYE-DELTA  
SS = SOLID STATE (SOFT START)  
MS = MANUAL STARTER  
VFD = VARIABLE FREQUENCY DRIVE  
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS  
YD = WYE - DELTA  
ECM = ELECTRONICALLY COMMUTATED MOTOR

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME  
PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:  
MFR = STANDARD CURB BY MANUFACTURER  
GC = BY GENERAL CONTRACTOR  
SAC = SOUND ATTENUATOR CURB

[illegible]

NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

LEVEL NAME

1

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

PLAN OR DETAIL SCALE

1

VIEW NAME

1/8" = 1'-0"

SIM

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

1

2

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:

IBC 2021 EDITION

PLUMBING CODE:

IPC 2021 EDITION

MECHANICAL CODE:

IMC 2021 EDITION

ELECTRICAL CODE:

NFPA 70 (NEC) 2020 EDITION

ENERGY CONSERVATION CODE:

IECC 2021

LOCAL BUILDING CODE:

LOUISIANA STATE UNIFORM CONSTRUCTION CODE

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIOVISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
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N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—AV—	ACID VENT
—AW—	ACID WASTE
—CA—	COMPRESSED AIR
—CW—	COLD WATER - POTABLE
—D—	DRAIN
—DI—	DEIONIZED WATER
—DT—	DRAIN TILE
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—G—	NATURAL GAS
—GRV—	GAS REGULATOR VENT
—GSAN—	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
—GV—	GREASE VENT
—HW—	HOT WATER - POTABLE
—HWC—	HOT WATER CIRCULATING - POTABLE
—HW140—	HOT WATER - POTABLE NUMBER INDICATES TEMP
—HWC140—	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
—IA—	INSTRUMENT AIR
—MA—	MEDICAL AIR
—MPG—	MEDIUM PRESSURE GAS
—MV—	MEDICAL VACUUM
—N—	NITROGEN
—NCW—	NON-POTABLE COLD WATER
—NHW—	NON-POTABLE HOT WATER
—NO—	NITROUS OXIDE
—O—	OXYGEN
—P—	PROPANE GAS
—PCWS/PCWR—	PROCESS COOLING WATER SUPPLY/RETURN
—PD—	PUMPED DISCHARGE
—PW—	PURE WATER
—RO—	REVERSE OSMOSIS WATER
—SAN—	SANITARY DRAINAGE
—SCW—	SOFT COLD WATER
—SHW—	SOFT HOT WATER
—ST(1,000)—	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
—STS—	STORM DRAINAGE (SECONDARY)
—STW—	SOFT TEMPERED WATER
—TW—	TEMPERED WATER
—V—	VENT
—VAC—	LAB VACUUM
—W—	SERVICE WATER - POTABLE
—WAGO—	WASTE ANESTHESIA GAS DISPOSAL
→	PIPE CONTINUATION
—	PIPE CAP
↓	PIPE DOWN
↑	PIPE UP OR UP/DOWN
○	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
—	PITCH PIPE IN DIRECTION
→	DIRECTION OF FLOW IN PIPE
—	ROUTE TO DRAIN
RD-1 6”(100)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—GPM—	BALANCING VALVE (NUMBER INDICATES GPM)
—	CHECK VALVE
—	BACKFLOW PREVENTER
—	SOLENOID VALVE
—	SAFETY/RELIEF VALVE
—	SAFETY RELIEF VALVE W/ DRIP PAN ELBOW
—	VACUUM BREAKER
—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL (DIAL TYPE)
—	THERMOMETER WITH WELL (FILLED TYPE)
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
—	PRESSURE REDUCING VALVE (LIQUID/GAS)
—	PUMP
—	METER
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	EXPANSION JOINT
—	#" IS THE EXPANSION TRAVEL INCHES
—	AIR ADMITTANCE VALVE

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DN	DOWN
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EW	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
L or LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UON	UNLESS OTHERWISE NOTED
YCO	YARD CLEANOUT

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S-3874.
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
- DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/GREATER NUMBER SHALL GOVERN.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)  
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE.

TAG NAME	DESCRIPTION	TEMPERED WATER	HWC
ESE-1	EMERGENCY SHOWER EYE/FACE WASH	1 1/2"	1

PLUMBING SHEET INDEX

P-000	PLUMBING COVERSHEET
P-201	LEVEL 01 PLAN - PLUMBING
P-400	PLUMBING DETAILS & SCHEDULES
P-600	PLUMBING SCHEDULES
GRAND TOTAL: 4	

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PROJECT #24004360.00

VG CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

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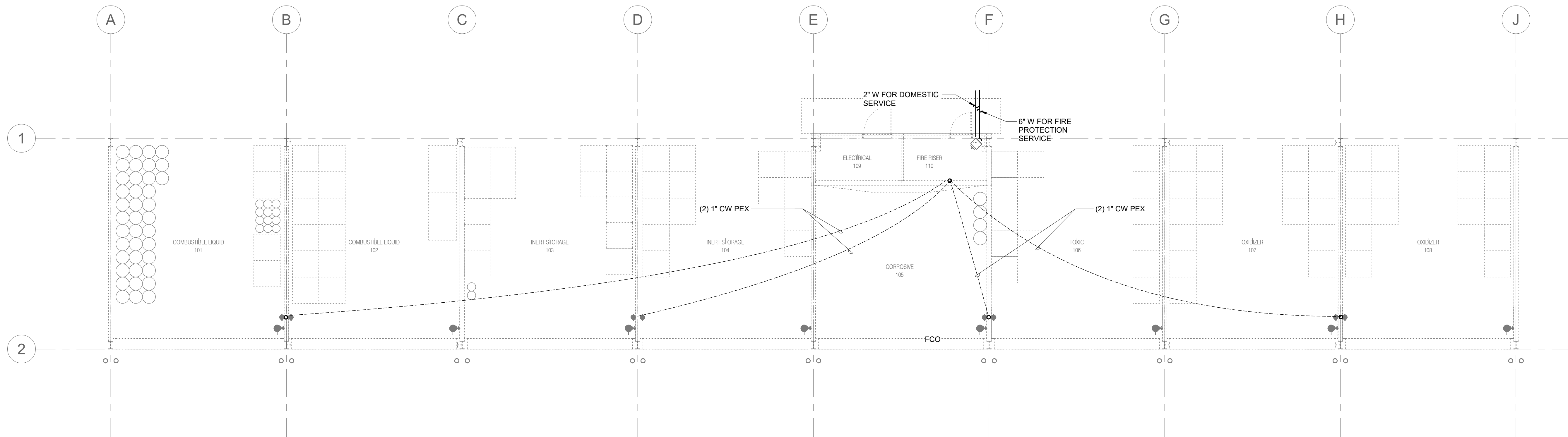
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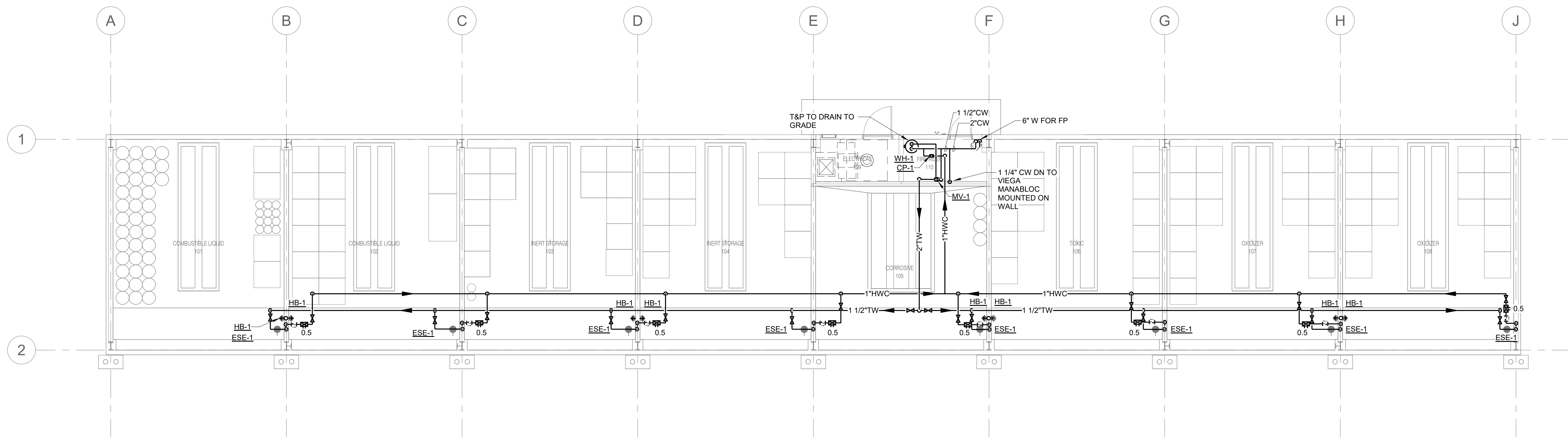
0 1 2 3

REF. SCALE IN INCHES PROJECT #24004360.00

PLUMBING COVERSHEET  
P-000  
SECURITY CLASS: COMPANY USE  
C2-099700-MEC-NOT-ENA-00002-001



**1 UNDERFLOOR PLAN - PLUMBING**  
1/8" = 1'-0"



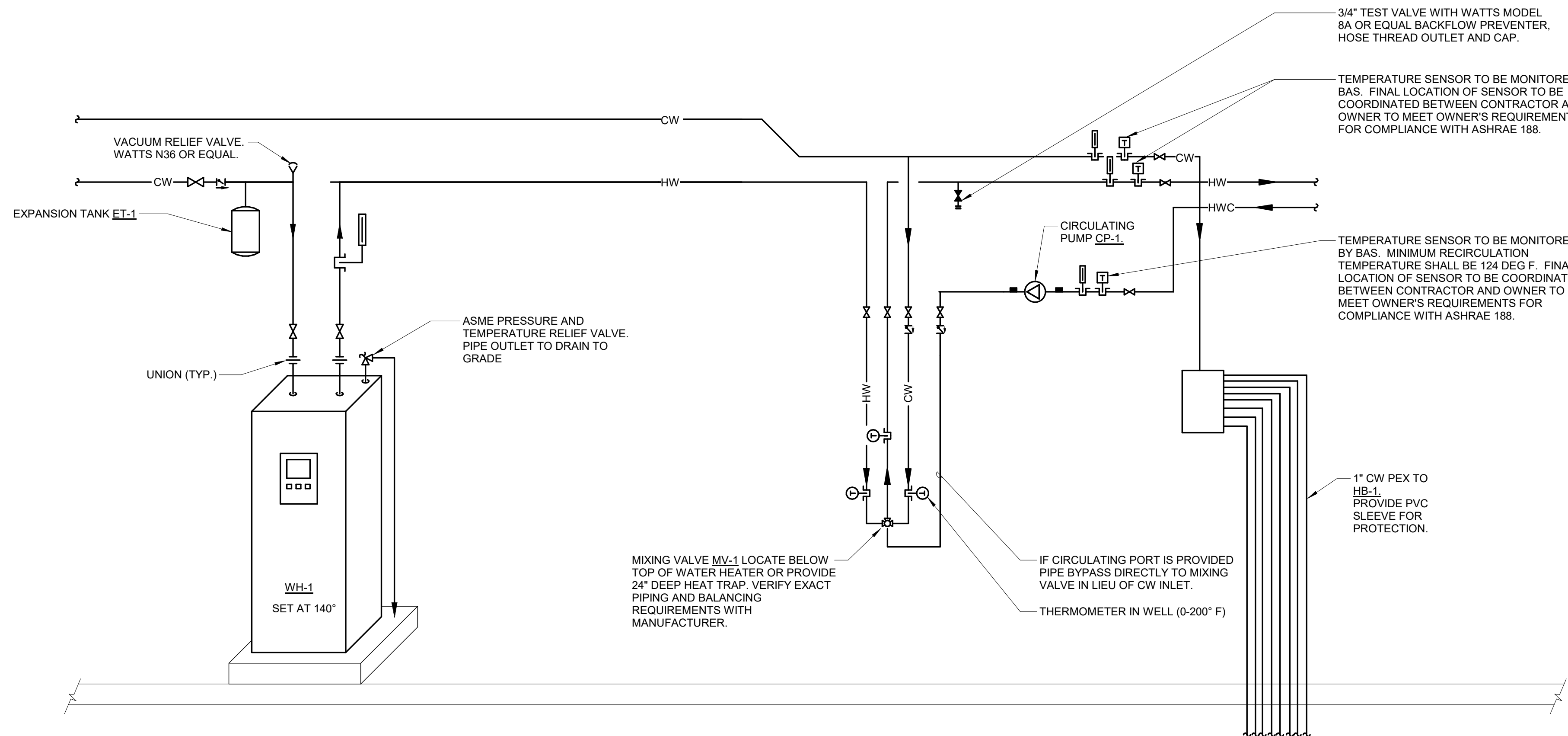
**2 LEVEL 01 PLAN - PLUMBING**  
1/8" = 1'-0"

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REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION

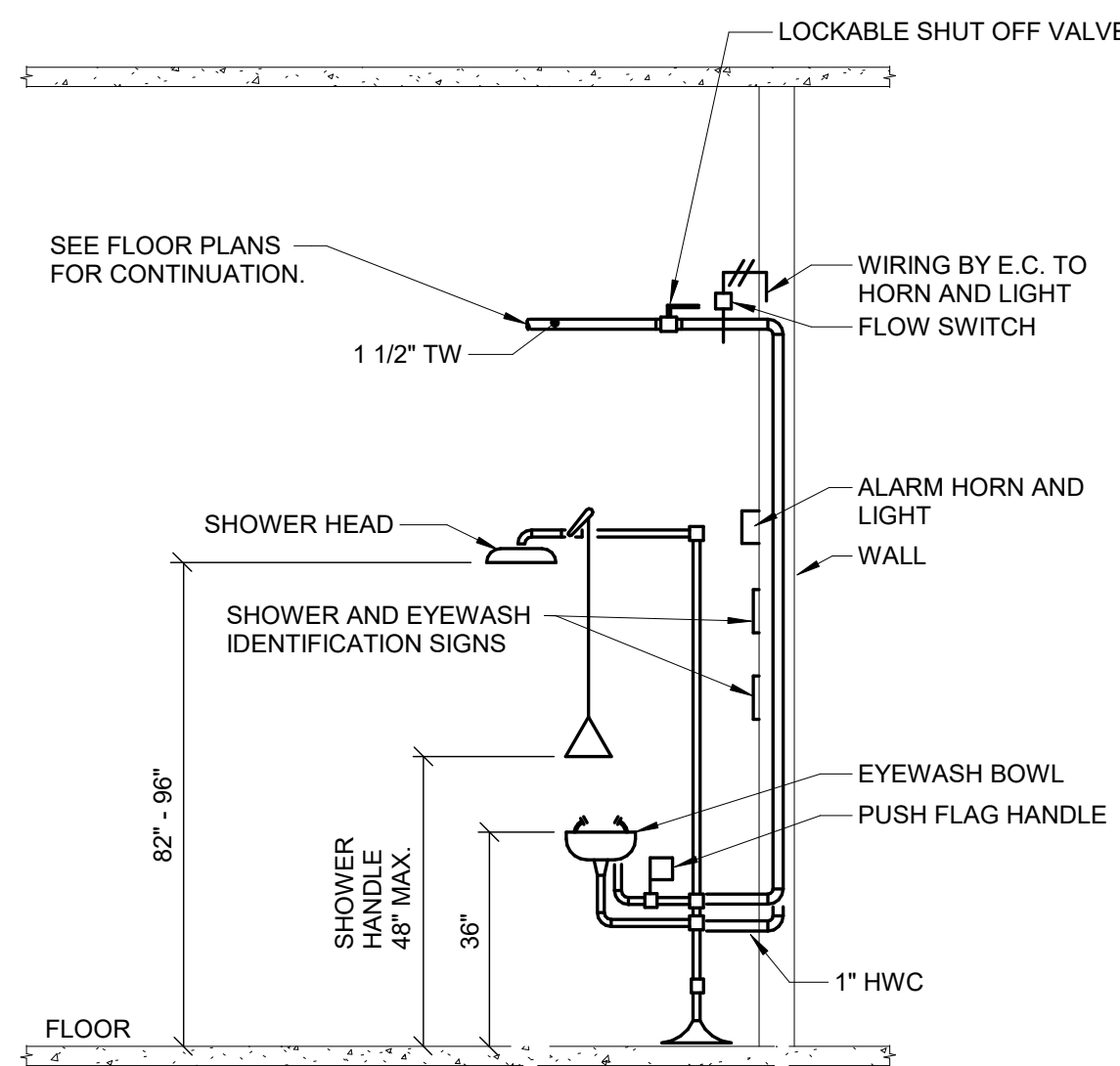




WATER HEATING

1 DOMESTIC WATER FLOW DIAGRAM

NO SCALE

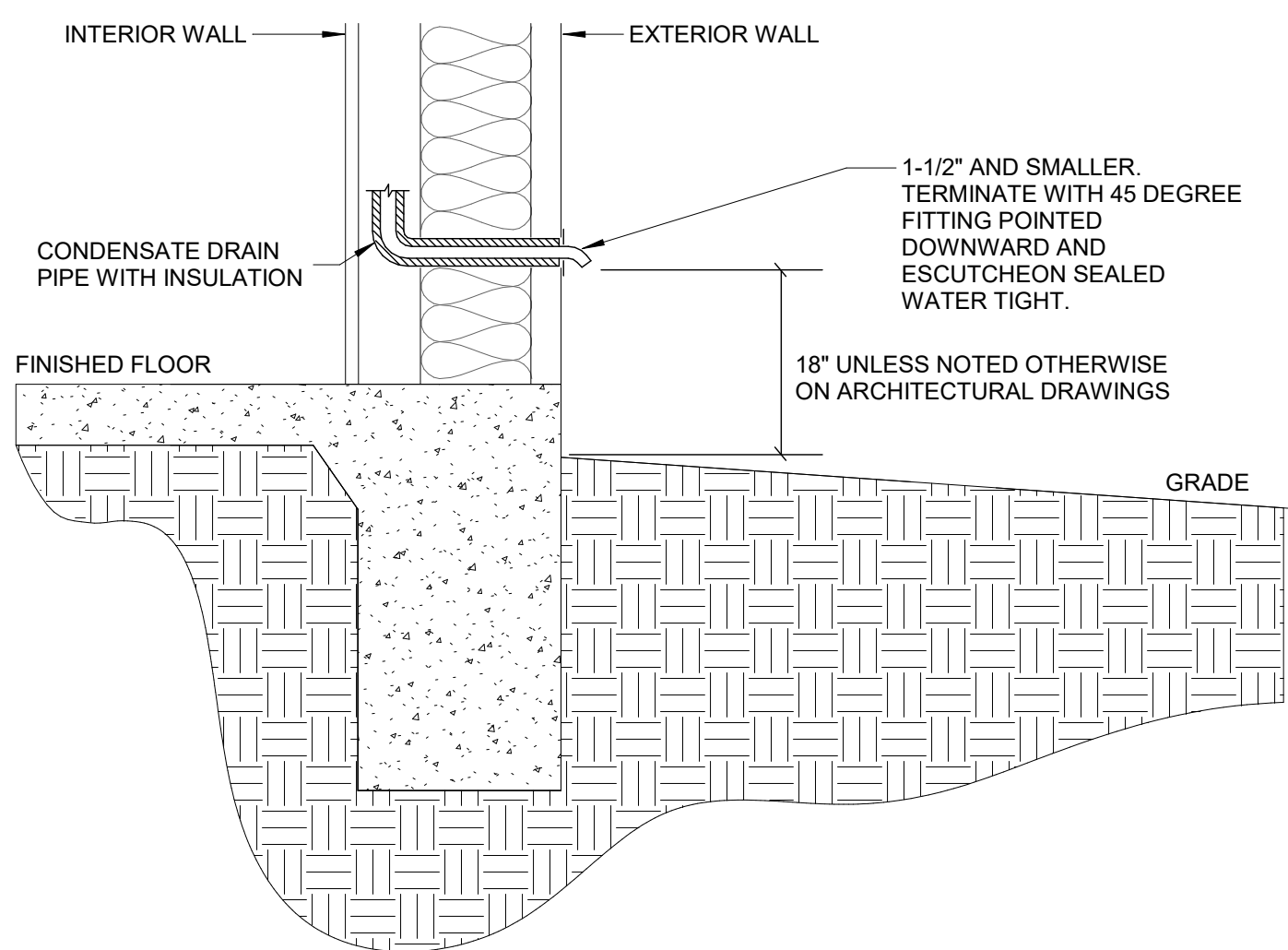


NOTES:

- EYEWASH AND SHOWER PERFORMANCE AND ROUGH-IN SHALL MEET THE CURRENT VERSION OF ANSI Z358.1.
- GENERAL CONTRACTOR SHALL PAINT AREA AROUND AND BEHIND SHOWER/EYEWASH A BRIGHT COLOR AS DIRECTED BY THE ARCHITECT.

2 EMERGENCY SHOWER & EYEWASH - FREE STANDING

NO SCALE



3 T&P DISCHARGE DETAIL

NO SCALE

PLUMBING MATERIAL LIST

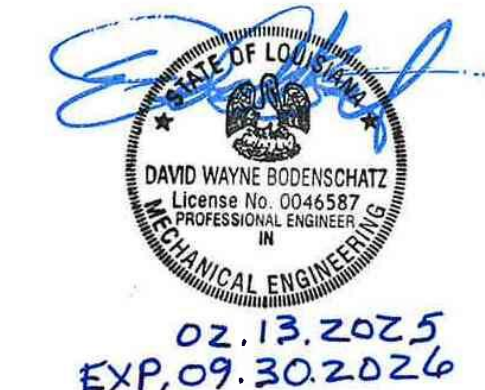
TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
ESE-1	EMERGENCY SHOWER & EYE/FACE WASH - CLASS 1, DIV 1 RATED, FREEZE RESISTANT, ACCESSIBLE, COMBINATION UNIT, FREESTANDING, FLOOR MOUNTED WITH BACK INLET, STAINLESS STEEL SHOWER HEAD, BRASS/BRONZE STAY OPEN BALL VALVE, STAINLESS STEEL/ALUMINUM PULL ROD, STAINLESS STEEL BOWL WITH HINGED DUST COVER, PLASTIC SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS SUPPLY ARMS, BRASS/BRONZE STAY OPEN BALL VALVE, METAL FLAG, INTEGRAL FLOW CONTROL FITTINGS, STAINLESS STEEL SUPPLY PIPING AND FITTINGS, SELF REGULATING HEATING CABLE WITH INSULATION AND PLASTIC JACKET SYSTEM TO PREVENT WETTED COMPONENTS FROM FREEZING, ADDITIONAL 6 FOOT HEAT TRACE CABLE WHIP FOR FIELD INSTALLATION OF SUPPLY PIPING, HEAT TRACE INDICATOR LIGHT, UNIVERSAL IDENTIFICATION SIGN, ANSI Z358.1-2004 COMPLIANT.  HEATING CABLE ELECTRICAL REQUIREMENTS - 120 VOLT, 80 WATTS PEAK POWER CONSUMPTION.  PROVIDE ELECTRIC ALARM UNIT IN NEMA 4X ENCLOSURE INCLUDING VISUAL AND AUDIBLE ALARM. FOR COMMUNICATION TO DDC SYSTEM, PROVIDE WATERPROOF FLOW SWITCH. SHALL BE ACTIVATED BY EITHER FLOW TO EYEWASH OR SHOWER.  MINIMUM FLOW RATE OF SHOWER SHALL BE 20 GPM AT 30 PSI. MINIMUM FLOW RATE OF EYE/FACE WASH SHALL BE 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED.  MOUNT SHOWER HEAD BETWEEN 82"-96" AND PULL ROD AT MAXIMUM 69" ABOVE FINISH FLOOR. EYE/FACE WASH OUTLET HEADS SHALL BE 33-45" ABOVE FINISH FLOOR.	EMERGENCY SHOWER - GUARDIAN (GFR3200 SERIES), BRADLEY (S19-304GA SERIES), ACCORN SAFETY, HAWS, SPEAKMAN, ENCON
HB-1	HOSE BIBB - FREEZELESS YARD HYDRANT, INTEGRAL VACUUM BREAKER, PULL DOWN DIVERTER SPOUT, AUTOMATIC DRAINING WITH SUB GRADE DRAIN/DOWN RESERVOIR, 3/4" MALE HOSE THREAD CONNECTION, 1" I.P.S. INLET, ONE PIECE PLUNGER, LOCKABLE HANDLE.  PROVIDE WITH ASSE 1052 OR 1057 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOW PREVENTER WITH 3/4" THREADED HOSE CONNECTION AT HYDRANT OUTLET.  BURY AT A DEPTH OF 24" TO ASSURE PLUNGER AND RESERVOIR ARE BELOW FROST LINE.	WOODFORD (S3), FREEZE FLOW (EXECUTIVE)
MV-1	MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH OR COMBINATION EYEWASH/FACEWASH FIXTURE, BRONZE BODY CONSTRUCTION, FAIL TO COLD WATER ONLY, OUTLET THERMOMETER, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES, OUTLET ISOLATION VALVE, MOUNTING BRACKET.  SUPPLY SHUT OFF VALVES SHALL BE LOCKED OPEN OR CONTRACTOR SHALL PROVIDE A LOCKING CABINET TO PREVENT UNAUTHORIZED CLOSURE. CABINET SHALL BE SURFACE MOUNTED 18 GAUGE STAINLESS STEEL WITH 18 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET CHECK STOPS, OUTLET THERMOMETER, AND OUTLET VALVE.  THERMOSTATIC MIXING AND PRESSURE REGULATING VALVE TO DELIVER 3 GPM OF TEMPERED WATER (60-100 DEGREE F) WITH 10 PSI PRESSURE DIFFERENTIAL.  UNIT SHALL BE ASSE 1071 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT 5.3874.	LEONARD (EXL-800-LF)

PLUMBING (WITH POWER) MATERIAL LIST

TAG NAME	DESCRIPTION	ELECTRICAL										MANUFACTURER AND MODEL
		TOTAL (QTY KW)	KW	HP (NOTE E)	FLA	MCA	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	TYPE (NOTE B)	CONTROLLER /STARTER BY (NOTE A)	TYPE (NOTE C)
CP-1	CIRCULATING PUMP - VARIABLE SPEED CONTROLLER WITH SETTINGS TO ADJUST AND MAINTAIN A CONSTANT: SPEED, FIXED PRESSURE, OR PROPORTIONAL PRESSURE. LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED.  4 GPM @ 15 FEET OF HEAD.  ELECTRICAL REQUIREMENTS - HARD-WIRE	0	0.2	0.65	0	120	1	EC	PLUG	MFR	FV	PUMP - GRUNDFOS (ALPHA2 15-50SF/LC (ALPHA2 15-50SF)), B&G (ECOIRC SERIES), ARMSTRONG (COMPASS 20-20 SS SERIES)
WH-1	WATER HEATER - ELECTRIC, VERTICAL, METAL CABINET, BAKED ENAMEL FINISH, GLASS-LINED ASME STAMPED WELDED STEEL TANK, 150 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&P RELIEF VALVE, MAGNESIUM ANODE ROD, INDIVIDUAL FLANGE-MOUNTED IMMERSION HEATING ELEMENTS SHEATHED WITH CORROSION-RESISTANT METAL ALLOY, EXTERNALLY ADJUSTABLE AUTOMATIC IMMERSION WATER THERMOSTAT, MANUAL RESET HIGH TEMPERATURE CUTOFF SWITCH, ENCLOSED CONTROLS, VENTILATED CONTROL CABINET, PILOT LIGHTS INDICATING MAIN POWER AND HEATING STEPS, CONTROL CIRCUIT TOGGLE SWITCH, SEQUENCING STEP CONTROLLER, CONTROL TRANSFORMER, POWER CIRCUIT FUSES, MAGNETIC CONTACTORS, CERAMIC TERMINAL BLOCK, FACTORY ASSEMBLED AND WIRED, 3-YEAR WARRANTY, UL LISTED, NEC COMPLIANT ELECTRICAL COMPONENTS, COMPLIANT TO IMECA, ASHRAE 90.1 AND ASHRAE 90A.  120 GALLON CAPACITY, 123 GPM RECOVERY RATE AT 100°F TEMPERATURE RISE, HEATING ELEMENTS RATED FOR LESS THAN 75 WATTS PER SQUARE INCH.  ELECTRICAL REQUIREMENTS - 120V CONTROL CIRCUIT.  SET WATER TEMPERATURE AT 140°F.	30	0	0	0	480	3	EC	NF	0	0	WATER HEATER - A.O. SMITH (DVE), AMERICAN (TCES1), BOCK (F SERIES), BRADFORD WHITE (M-II), RHEEM/RIUD (E SERIES), STATE (SSE), HTP (CGE SERIES HEAVY DUTY)

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REV. SCALE IN INCHES 1 2 3 PROJECT #24004360.00

REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION





PLUMBING (WITH POWER) MATERIAL LIST												
TAG NAME	DESCRIPTION	ELECTRICAL										
		TOTAL (GTY KW)	HP (NOTE E)	FLA	MCA	VOLTAGE	PHASES	DISCONNECT		CONTROLLER /STARTER		
		KW						BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	
CP-1	<p>CIRCULATING PUMP - VARIABLE SPEED CONTROLLER WITH SETTINGS TO ADJUST AND MAINTAIN A CONSTANT: SPEED, FIXED PRESSURE, OR PROPORTIONAL PRESSURE. LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED.</p> <p>4 GPM @ 15 FEET OF HEAD.</p> <p>ELECTRICAL REQUIREMENTS - HARD-WIRE</p>	0	0.2	0.65	0	120	1	EC	PLUG	MFR	TV	<p>PUMP - GRUNDFOS ALPHA2 15-55S5F/LC (ALPHA2 15-55S5F), B&amp;G (ECCORIC SERIES), ARMSTRONG (COMPASS 20-20 SS SERIES)</p>
WH-1	<p>WATER HEATER - ELECTRIC, VERTICAL, METAL CABINET, BAKED ENAMEL FINISH, GLASS-LINED ASME STAMPED WELDED STEEL TANK, 150 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&amp;P RELIEF VALVE, MAGNESIUM ANODE ROD, INDIVIDUAL FLANGE-MOUNTED IMMERSION HEATING ELEMENTS SHEATHED WITH CORROSION-RESISTANT METAL ALLOY, EXTERNALLY ADJUSTABLE AUTOMATIC IMMERSION WATER THERMOSTAT, MANUAL, RESET HIGH TEMPERATURE CUTOFF SWITCH, ENCLOSED CONTROLS, VENTILATED CONTROL CABINET, PILOT LIGHTS INDICATING MAIN POWER AND HEATING STEPS, CONTROL CIRCUIT TOGGLE SWITCH, SEQUENCING STEP CONTROLLER, CONTROL TRANSFORMER, POWER CIRCUIT FUSES, MAGNETIC CONTACTORS, CERAMIC TERMINAL BLOCK, FACTORY ASSEMBLED AND WIRED, 3-YEAR WARRANTY, UL LISTED, NEC COMPLIANT ELECTRICAL COMPONENTS, COMPLIANT TO NAECA, ASHRAE 90.1 AND ASHRAE 90A.</p> <p>120 GALLON CAPACITY, 123 GPH RECOVERY RATE AT 100°F TEMPERATURE RISE HEATING ELEMENTS RATED FOR LESS THAN 75 WATTS PER SQUARE INCH.</p> <p>ELECTRICAL REQUIREMENTS - 120V CONTROL CIRCUIT.</p> <p>SET WATER TEMPERATURE AT 140°F.</p>	30	0	0	0	480	3	EC	NF	0	0	<p>WATER HEATER - A.O. SMITH (DVE), AMERICAN (ITCE31), BOCK (F SERIES), BRADFORD WHITE (MJ), RHEEM/NU (E SERIES), STATE (SSE), HTP (CGE SERIES HEAVY DUTY)</p>

PLUMBING MATERIAL LIST		
TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
ES-1	<p>EMERGENCY SHOWER &amp; EYEWASH WASH - CLASS 1, DIV 1 RATED, FREEZE RESISTANT, ACCESSIBLE COMBINATION UNIT, FREE STANDING, FLOOR MOUNTED WITH BACK INLET, STAINLESS STEEL, SHOWER HEAD, BRASS/BRONZE STAY OPEN BALL VALVE, STAINLESS STEEL/ALUMINUM PULL ROD, STAINLESS STEEL BOWL, WITH HINGED STOP COVER, PLASTIC SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS SUPPLY ARM, BRASS/BRONZE STAY OPEN BALL VALVE, METAL FLAG, INTEGRAL FLOW CONTROL FITTINGS, STAINLESS STEEL, SUPPLY PIPING AND FITTINGS, SELF REGULATING HEATING CABLE WITH INSULATION AND PLASTIC JACKET SYSTEM TO PREVENT WETTED COMPONENTS FROM FREEZING, ADDITIONAL 6 FOOT HEAT TRACE CABLE WHIP FOR FIELD INSTALLATION OF SUPPLY PIPING, HEAT TRACE INDICATOR LIGHT, UNIVERSAL IDENTIFICATION SIGN, ANSI Z358.1-2004 COMPLIANT.</p> <p>HEATING CABLE ELECTRICAL REQUIREMENTS - 120 VOLT, 80 WATTS PEAK POWER CONSUMPTION.</p> <p>PROVIDE ELECTRIC ALARM UNIT IN NEMA 4X ENCLOSURE INCLUDING VISUAL AND AUDIBLE ALARM FOR COMMUNICATION TO DDC SYSTEM, PROVIDE WATERPROOF FLOW SWITCH, SHALL BE ACTIVATED BY EITHER FLOW TO EYEWASH OR SHOWER.</p> <p>MINIMUM FLOW RATE OF SHOWER SHALL BE 20 GPM AT 30 PSI. MINIMUM FLOW RATE OF EYEWASH SHALL BE 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES SHALL BE POLYMER PLATED OR CHEMICAL-RESISTANT POWER COATED.</p> <p>MOUNT SHOWER HEAD BETWEEN 82" -86" AND PULL ROD AT MAXIMUM 68" ABOVE FINISH FLOOR. EYEWASH WASH OUTLET HEADS SHALL BE 33-45" ABOVE FINISH FLOOR.</p>	<p>EMERGENCY SHOWER - GUARDIAN (GPR3000 SERIES), BRADLEY (SI9-304GA SERIES), ACORN SAFETY, HAYS, SPEARMAN, ENCON</p>
HB-1	<p>HOSE BIBB - FREEZELESS YARD HYDRANT, INTEGRAL VACUUM BREAKER, PULL DOWN DIVERTER STOP, AUTOMATIC DRAINING WITH SUB GRADE DRAINDOWN CONNECTION, 3/4" MALE HOSE THREAD CONNECTION, 1" I.P.S. INLET, ONE PIECE PLUNGER, LOCKABLE HANDLE.</p> <p>PROVIDE WITH ASS 1052 OR 1057 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOW PREVENTER WITH 3/4" THREADED HOSE CONNECTION AT HYDRANT OUTLET.</p> <p>BURY AT A DEPTH OF 24" TO ASSURE PLUNGER AND RESERVOIR ARE BELOW FROST LINE.</p>	WOODFORD (S3), FREEZE FLOW (EXECUTIVE)
MV-1	<p>MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH OR COMBINATION EYEWASH/EYEWASH FIXTURE, BRONZE BODY CONSTRUCTION, FAIL TO COLD WATER ONLY, OUTLET THERMOMETER, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES, OUTLET ISOLATION VALVE, MOUNTING BRACKET.</p> <p>SUPPLY SHUT OFF VALVES SHALL BE LOCKED OPEN OR CONTRACTOR SHALL PROVIDE A LOCKING CABBINET TO PREVENT UNAUTHORIZED CLOSURE. CABINET SHALL BE SURFACE MOUNTED 16 GAUGE STAINLESS STEEL WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET CHECK STOPS, OUTLET THERMOMETER, AND OUTLET VALVE.</p> <p>THERMOSTATIC MIXING AND PRESSURE REGULATING VALVE TO DELIVER 3 GPM OF TEMPERED WATER (60-100 DEGREE F) WITH 10 PSI PRESSURE DIFFERENTIAL.</p> <p>UNIT SHALL BE ASS7E 1071 LISTED AND APPROVED, VALVE SHALL COMPLY WITH FEDERAL ACS 3.3874.</p>	LEONARD (EXL-800-LF)

# VG CP2 CHEMICAL STORAGE BUILDING

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CAMERON, LA 70631

A	07/25/2024	ISSUED FOR REVIEW
<b>REV</b>	<b>DATE</b>	<b>DESCRIPTION</b>

**NOT FOR  
REGULATORY  
APPROVAL,  
PERMITTING OR  
CONSTRUCTION**

# P-600

SECURITY CLASS: COMPANY USE  
C2-099700-MEC-SCH-ENA-00002-001

PRELIMINARY  
NOT FOR  
CONSTRUCTION



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Texas Firm Registration #F-24262

0 1 2 3  
REF. SCALE IN INCHES PROJECT #24004360.00

NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

1

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

1

M101

3

T101

SHEET DETAIL IS LOCATED ON

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

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INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ABB#

DESCRIPTION:

ABV

ABOVE

AFC

ABOVE FINISHED CEILING

AFF

ABOVE FINISHED FLOOR

AFG

ABOVE FINISHED GRADE

ASR

ARCHITECTURAL SURFACE RACEWAY

BC

BELOW COUNTER

C

CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)

CO

CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)

EG

EQUIPMENT GROUND

EGC

EQUIPMENT GROUNDING CONDUCTOR

EOL

END OF LINE

EPO

EMERGENCY POWER OFF

GFR

GROUND FAULT REMOTE

HOA

HAND/OFF/AUTO

ITR

IT RACK MOUNTED RECEPTACLE

NC

NORMALLY CLOSED

NEMA #

NEMA RATING

NIC

NOT IN CONTRACTED SCOPE

NO

NORMALLY OPEN

ROOF

EQUIPMENT LOCATED ON ROOF ABOVE

SM

SURFACE MOUNTED

TYP

TYPICAL

UG

UNDERGROUND

UON

UNLESS OTHERWISE NOTED

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	PVC	PVC CONCRETE ENCASED	RTRC	PVC COATED RMC	HDPE	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X						
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X						
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X						
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X						
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X						
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X					X			
CORROSIVE LOCATIONS						X	X		
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X						
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X						
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X						X
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)									
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X			X					
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X				X	X			
UNDERGROUND SITE CONDUITS:									
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X	X			
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X		X			
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS, WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT				X	X			X	X
DUCTBANKS (REFER TO DUCTBANK DETAILS WHEN APPLICABLE)									
REINFORCING SHALL CONSIST OF ONE-HALF INCH DEFORMED BARS SPACED 12 INCHES ON CENTER, PARALLELING THE DUCTS ON BOTTOM, WITH ONE-HALF INCH DEFORMED TIE BARS SPACED TWELVE INCHES ON CENTERS.					X	?			
BARS SHALL OVERLAP 40 DIAMETERS AND SHALL EXTEND 5' BEYOND ROADS, DRIVES, TRAVELED WAYS, ETC.					X	?			
PROVIDE MINIMUM 3" CONCRETE COVER ON ALL SIDES OF REINFORCING.					X	?			
ENTIRE DUCTBANK SHALL BE INSTALLED ON PRECAST CONCRETE PAVERS ON 3' CENTERS					X	?			
HAZARDOUS (CLASSIFIED LOCATIONS AS DEFIED BY THE NATIONAL ELECTRICAL CODE: COMPLETE WITH SCREWED FITTINGS AND CONDUIT SEALS	X								
FIRE RATED ASSEMBLIES: FIRE RATED ASSEMBLIES LISTED WITH PHENOLIC RTRC RACEWAY						X			
DEFINITIONS:									
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE FOUNDATION.									

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:  
# = MOUNTING (IF APPLICABLE)  
1 = CIRCUIT NUMBER  
\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:  
A MOUNT AT 4" TO CENTERLINE ABOVE COUNTER OR BACKSPASH  
C MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)  
H MOUNT ORIENTED HORIZONTALLY  
L MOUNT IN CASEWORK  
M MOUNT IN MODULAR FURNITURE  
O WIRING DEVICE, OCCUPANCY CONTROLLED  
R MOUNT IN SURFACE RACEWAY  
S SURFACE MOUNTED  
W WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED  
WG WIRE GUARD  
WP WEATHERPROOF

ELECTRICAL SHEET INDEX

E-000 ELECTRICAL COVERSHEET  
E-201 LEVEL 01 PLAN- ELECTRICAL  
E-300 ELECTRICAL SCHEDULES  
GRAND TOTAL: 3

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	GB	26 05 26	GROUND BUS
	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	TR-#/DTR-#	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	DSS-#/FDS-#/DSS-#	26 28 16	DISCONNECT SWITCH FUSED DISCONNECT SWITCH INTERLOCKED RECEPTACLE DISCONNECT. REFER TO DISC/STA SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	SW-1P SW-V SW-1P-EX	26 09 33	SWITCH SUBSCRIPTS: BLANK = SINGLE POLE V = LOW VOLTAGE ON/OFF WITH VACANCY SENSOR X = SINGLE POLE - EXPLOSION PROOF SWITCH

LUMINAIRE SHADING KEY

NORMAL BRANCH LUMINAIRE  
EMERGENCY BATTERY LUMINAIRE

SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY BATTERY.

VIEW KEY

NAME

LEVEL NAME

HEIGHT ABOVE PROJECT 0'-0"

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

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ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
			LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
			DOWNLIGHT LUMINAIRE
			AIMABLE OR WALL WASH LUMINAIRE
			INDUSTRIAL LUMINAIRE
			WALL BRACKET LUMINAIRE
			POLE MOUNTED LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			WALL/CEILING EMERGENCY EXIT SIGN
			EMERGENCY UNIT

ADA STANDARDS FOR ACCESSIBLE DESIGN

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

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INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

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INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

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ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 1

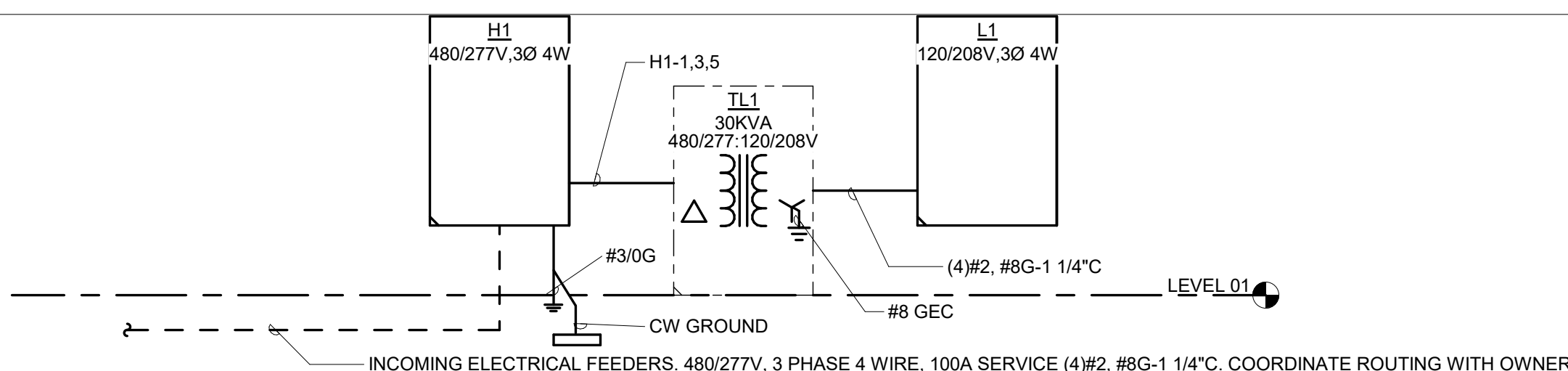
- LIGHTING GENERAL NOTES:**
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
  2. ALL EMERGENCY BATTERY DRIVERS AND EMERGENCY LIGHTS I.E. FIXTURES DESIGNATED WITH AN 'X' SUFFIX (SUCH AS 'AX') AND TYPE 'EM' AND EXIT SIGNS SHALL BE CIRCUITED TO UNSWITCHED HOT LEG ADJACENT LIGHTING CIRCUIT PER N.E.C ARTICLES 700 AND 701, INLESS OTHERWISE NOTED.
  3. ALL DEVICES, BOXES, FIXTURES, WIRING, CONDUIT, FITTINGS, ETC IN STORAGE AREAS SHALL BE CLASS 1 DIVISION 2 RATED.
  4. TYPE 'A' LIGHTS SHALL BE PENDANT MOUNTED AT 14" ABOVE FINISHED FLOOR TO BOTTOM OF FIXTURE.

- POWER GENERAL NOTES:**
1. REFER TO SHEET E000 FOR LEGEND, ABBREVIATIONS, AND PROJECT NOTES.
  2. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES, AND ALL MATERIALS AND LABOR FOR A COMPLETE AND FUNCTIONAL SYSTEM.
  3. REFER TO HVAC CIRCUITING SCHEDULE FOR MECHANICAL EQUIPMENT CONNECTIONS, DISCONNECT, AND BRANCH CIRCUIT REQUIREMENTS.
  4. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH APPROVED SHOP DRAWING SUBMITTALS PRIOR TO ROUGH-IN. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND CONTRACT DRAWINGS.
  5. CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY N.E.C WHEN GROUPED IN COMMON RACEWAY.
  6. ALL DEVICES WITH 'GFI' OR 'WP' SHALL BE INDEPENDENT GFI DEVICES. WIRING THROUGH IS NOT PERMITTED.
  7. ALL DEVICES, BOXES, FIXTURES, WIRING, CONDUIT, FITTINGS, ETC IN STORAGE AREAS SHALL BE CLASS 1 DIVISION 2 RATED.

- KEYNOTES:**
1. JUNCTION BOX AND 3P/60AS/NF DISCONNECT SWITCH FOR CONNECTION TO WATER HEATER WH-1. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR.
  2. JUNCTION BOX AND PILOT LIGHT SWITCH DISCONNECT SWITCH FOR CONNECTION TO CIRCULATION PUMP. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR.
  3. JUNCTION BOX AND 3P/60AS/NF DISCONNECT SWITCH FOR CONNECTION TO AIR COMPRESSOR. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR.
  4. JUNCTION BOX FOR CONNECTION TO EYEWASH STATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SYSTEM SUPPLIER.
  5. JUNCTION BOX FOR FIRE PROTECTION SYSTEM POWER. COORDINATE LOCATION AND REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR.

REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION





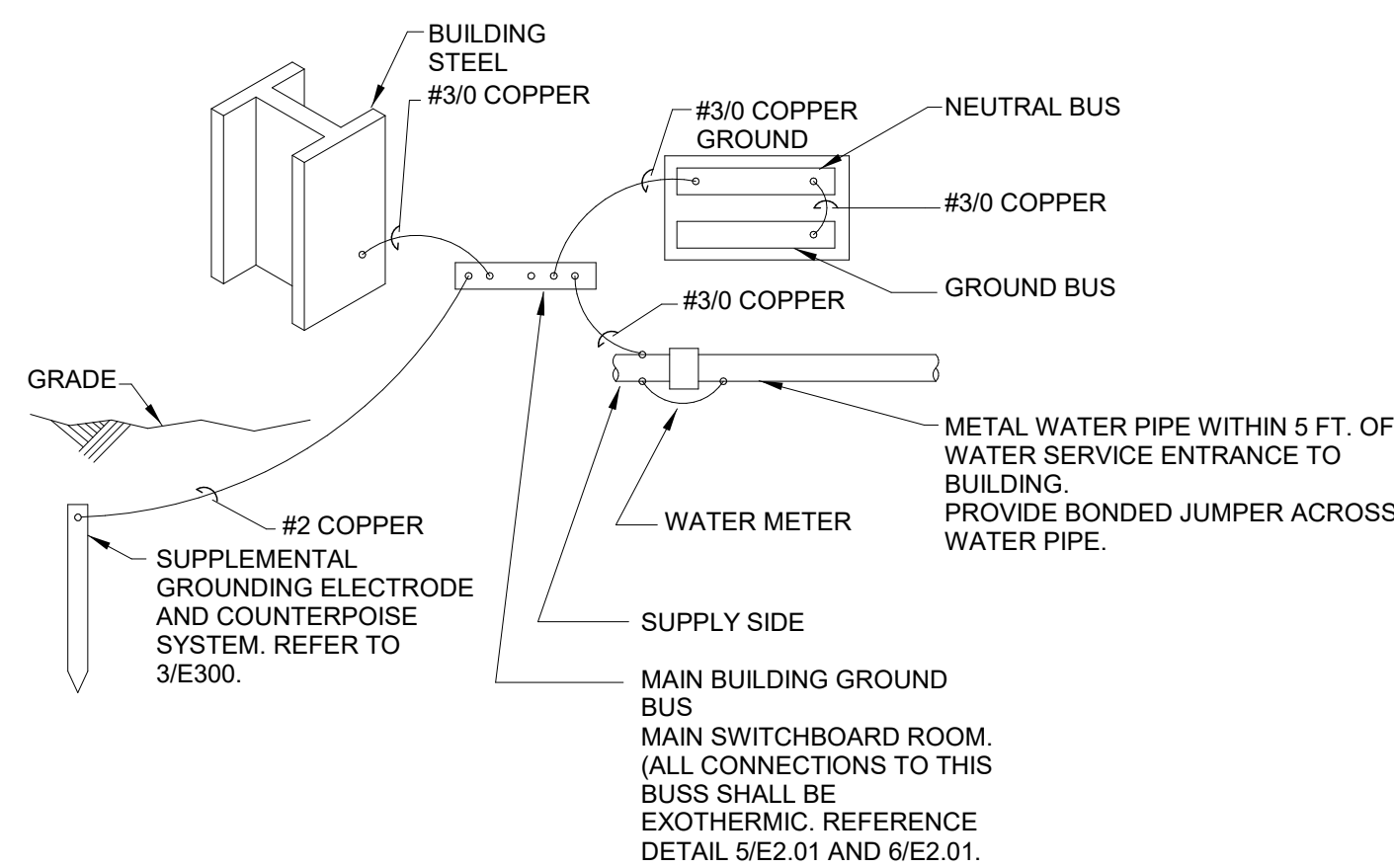
HVAC CIRCUITING SCHEDULE		
DESIGNATION	CIRCUIT	DISCONNECT
UH-1	L1-1/3/5	3P/30AS/NF
EF-1	L1-17	NOTE#2

NOTES:  
1. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL EQUIPMENT  
2. DISCONNECT SWITCH FURNISHED WITH UNIT.

## 1 ELECTRICAL RISER DIAGRAM

NO SCALE

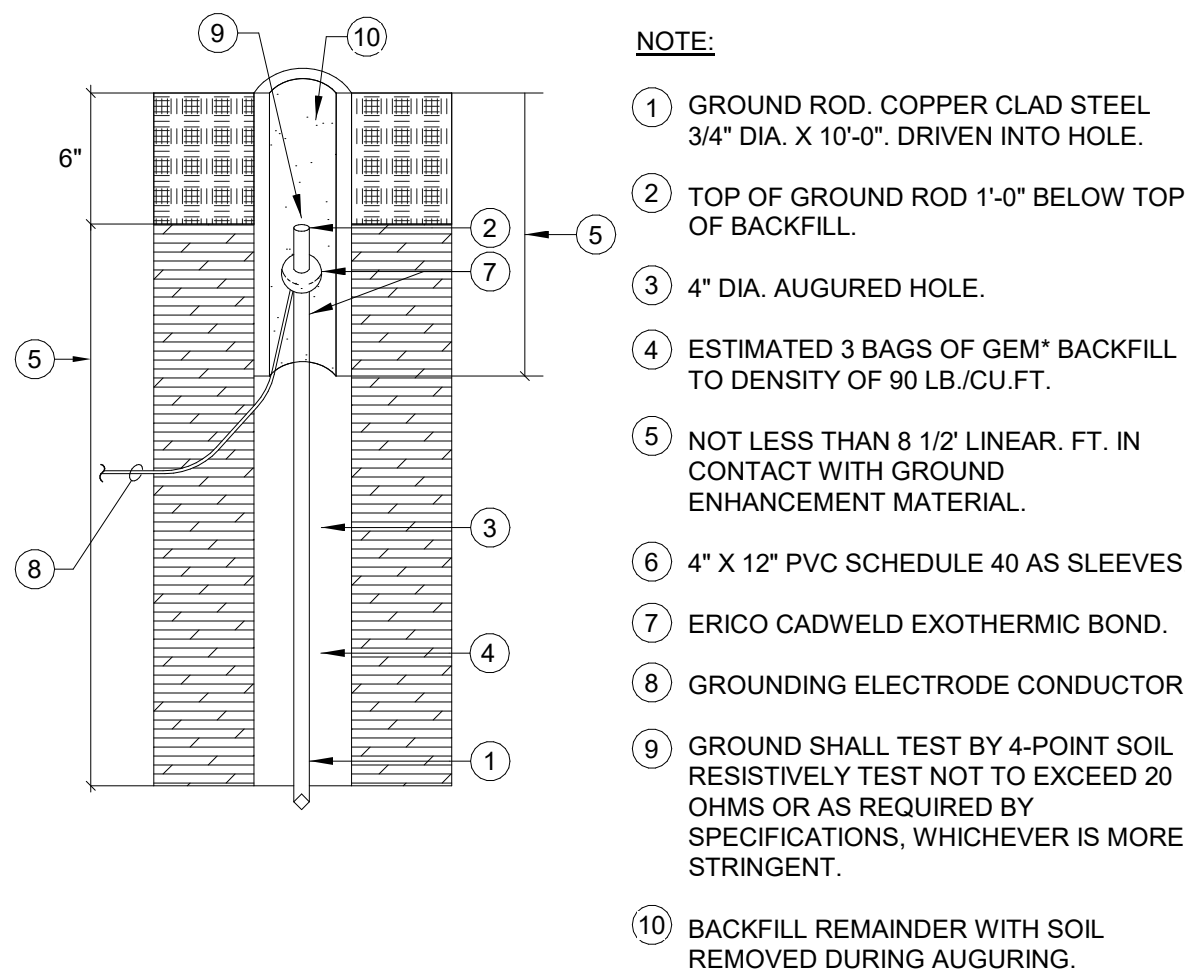
LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS	MANUFACTURER/CATALOG NUMBER
A	4'0" LED STRIP, CLASS 1 DIVISION 2 RATED, 10,000 LUMEN OUTPUT, CORROSION RESISTANT ALUMINUM HOUSING, TEMPERED GLASS LENS	67W 4000K-LED	HOLOPHANE #EMXH-L48-10000LM-FPCL-WD-MVOLT-G210-40K-80CRI-SBGR10
BX	4'0" LED STRIP, 5000 LUMEN OUTPUT, FROSTED ACRYLIC LENS, STEEL HOUSING, 10' ADJUSTABLE AIRCRAFT CABLE, WHITE BAKED ENAMEL FINISH, EMERGENCY...	34W 4000K-LED	LITHONIA #ZL1N-L48-5MR-5000LM-FST-MVOLT-40K-80CRI-WH-E10WLC-P-ZACVHM100



NOTE:  
CONNECTIONS SHALL BE FIRMLY BONDED TO NEUTRAL BUS,  
BUILDING STEEL, GROUNDING ROD AND WATER PIPE.

## 2 BUILDING GROUNDING SYSTEM DETAIL

NO SCALE



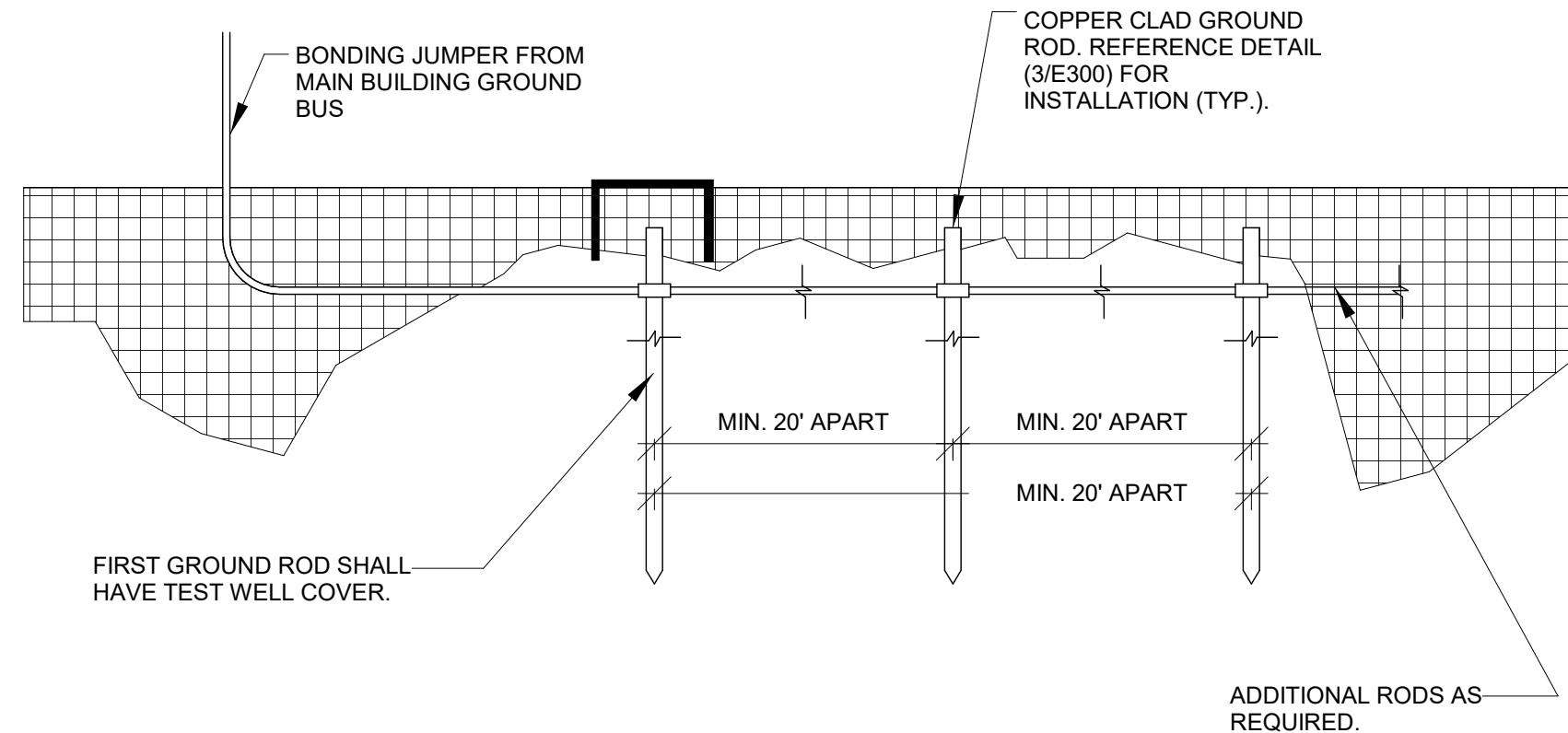
NOTE:

- GROUND ROD, COPPER CLAD STEEL 3/4" DIA. X 10'-0", DRIVEN INTO HOLE.
- TOP OF GROUND ROD 1'-0" BELOW TOP OF BACKFILL.
- 4" DIA. AUGURED HOLE.
- ESTIMATED 3 BAGS OF GEM\* BACKFILL TO DENSITY OF 90 LB./CU.FT.
- NOT LESS THAN 8 1/2' LINEAR, FT. IN CONTACT WITH GROUND ENHANCEMENT MATERIAL.
- 4" X 12" PVC SCHEDULE 40 AS SLEEVES.
- ERICO CADWELD EXOTHERMIC BOND.
- GROUNDING ELECTRODE CONDUCTOR.
- GROUND SHALL TEST BY 4-POINT SOIL RESISTIVITY TEST NOT TO EXCEED 20 OHMS OR AS REQUIRED BY SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- BACKFILL REMAINDER WITH SOIL REMOVED DURING AUGURING.

\* GEM IS A TRADEMARK OF ERICO PRODUCTS INC.

## 3 GROUND ROD INSTALLATION DETAIL

NO SCALE



NOTE:  
TEST RESISTANCE TO GROUND BY 3-POINT "FALL OF POTENTIAL" METHOD, RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS. INSTALL ADDITIONAL RODS ON 20' INTERVALS UNTIL RESISTANCE REQUIREMENTS ARE MET. SUBMIT "FALL OF POTENTIAL" DATA AND GRAPHS TO ENGINEER.

## 4 SUPPLEMENTAL GROUND ROD INSTALLATION DETAIL

NO SCALE

MOUNTING: SURFACE  
ENCLOSURE: NEMA 1  
FED FROM:  
LOCATION: ELEC

### PANEL H1

SINGLE TUB  
SOLID NEUTRAL  
GROUND BUS

MAIN: 100 A MCB  
VOLTS: 480/277 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 65 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE			A	B		C	WIRE SIZE			OCPD	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
			SIZE	P	H	N	G		G	N		H	P						
--	1	TL1	50 A	3	10	6	10	3.61	10			10	6	3	50 A	WATER HEATER	2	--	
--	3	--	--	--	--	--	--	--	2.48	10		--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--	--	--		3.02	10	--	--	--	--	--	6	--
7	7	AIR COMPRESSOR	20 A	3	12	--	12	2.03	3.65			8	8	1	20 A	LIGHTING	8	--	
--	9	--	--	--	--	--	--	--	2.03	0		--	--	--	1	20 A	SPARE	10	--
--	11	--	--	--	--	--	--	--	--		2.03	0	--	--	1	20 A	SPARE	12	--
--	13	SPARE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	14	--
--	15	SPARE	20 A	1	--	--	--	--	0	0		--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--	--	--		0	0	--	--	1	20 A	SPARE	18	--
--	19	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	20	--
--	21	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	22	--
--	23	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	24	--
--	25	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	26	--
--	27	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	28	--
--	29	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	30	--
--	31	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	32	--
--	33	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	34	--
--	35	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	36	--
--	37	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	38	--
--	39	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	40	--
--	41	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPARE	42	--
Total Load:			19.29 kVA		14.51 kVA		15.05 kVA												
Total Amps:			69.94		52.38		54.63												

LOAD SUMMARY				TOTALS*	
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND		
HVAC	5 kVA	100.00%	5 kVA	TOTAL CONNECTED LOAD:	48.85 kVA
Lighting	3.649 kVA	100.00%	3.649 kVA	TOTAL ESTIMATED DEMAND LOAD:	48.849 kVA
Motor	7.36 kVA	100.00%	7.36 kVA	TOTAL CONNECTED AMPS:	58.76 A
Power	31.04 kVA	100.00%	31.04 kVA	TOTAL ESTIMATED DEMAND AMPS:	58.8 A
Receptacles	1.8 kVA	100.00%	1.8 kVA		

\* TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

MOUNTING: SURFACE  
ENCLOSURE: NEMA 1  
FED FROM: TL1  
LOCATION: ELEC

### PANEL L1

SINGLE TUB  
SOLID NEUTRAL  
GROUND BUS

MAIN: 100 A MCB  
VOLTS: 120/208 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 10 KA/C

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE	H	N	G	A	B	C	WIRE SIZE	G	N	H	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
1	UH-1		20 A	3	12	--	12	1.67	--			--	--	--	1	--	SPACE	2	--
--	3	--	--	--	--	--	--	--	1.67	--		--	--	--	1	--	SPACE	4	--
--	5	--	--	--	--	--	--	--			1.67	--	--	--	1	--	SPACE	6	--
7	RECEPT. ELEC		20 A	1	12	12	12	0.18	--			--	--	--	1	--	SPACE	8	--
9	RECEPT. RISER ROOM		20 A	1	12	12	12		0.18	--		--	--	--	1	--	SPACE	10	--
11	RECEPT. STORAGE		20 A	1	12	12	12				0.72	--	--	--	1	--	SPACE	12	--
13	RECEPT. STORAGE		20 A	1	12	12	12	0.72	--			--	--	--	1	--	SPACE	14	--
15	CIRC. PUMP		20 A	1	12	12	12		0.63	--		--	--	--	1	--	SPACE	16	--
17	EF-1		20 A	1	12	12	12				0.63	--	--	--	1	--	SPACE	18	--
19	EYE WASH STATIONS		20 A	1	12	12	12	1.04	--			--	--	--	1	--	SPACE	20	--
21	FIRE PROTECTION		20 A	1	12	12	12		0	--		--	--	--	1	--	SPACE	22	--
--	23	SPARE	20 A	1	--	--	--	--			0	--	--	--	1	--	SPACE	24	--
--	25	SPARE	20 A	1	--	--	--	0	--			--	--	--	1	--	SPACE	26	--
--	27	SPARE	20 A	1	--	--	--		0	--		--	--	--	1	--	SPACE	28	--
--	29	SPARE	20 A	1	--	--	--	--			0	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42	--
Total Load:			3.61 kVA						2.48 kVA			3.02 kVA							
Total Amps:			30.75						20.64			25.83							

LOAD SUMMARY				TOTALS*	
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND		
HVAC	5 kVA	100.00%	5 kVA	TOTAL CONNECTED LOAD:	9.10 kVA
Motor	1.26 kVA	100.00%	1.26 kVA	TOTAL ESTIMATED DEMAND LOAD:	9.1 kVA
Power	1.04 kVA	100.00%	1.04 kVA	TOTAL CONNECTED AMPS:	25.26 A
Receptacles	1.8 kVA	100.00%	1.8 kVA	TOTAL ESTIMATED DEMAND AMPS:	25.3 A

\* TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION



02.13.2025  
EXP. 03.31.2026

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS FOR THE PROJECT.
2. ALL MATERIALS AND EQUIPMENT LISTED IN THE MATERIALS AND EQUIPMENT CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE SELECTION OF THE MATERIALS TO BE USED. THE MATERIALS IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE FIRST CHOICE.
3. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES. PROVIDE COVERAGE ABOVE AND BELOW ALL EXPOSED DUCTWORK GREATER THAN 48" WIDE.
4. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE OF INSULATION INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNERS' INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE THE GOVERNING CRITERIA.
6. ALL BUILDING AREAS SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS OVERHANDS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COUSISTABLE AREAS SHALL BE SPRINKLERED. ALL AREAS NOT FULLY PROTECTED BY THE SPRINKLER SYSTEM EACH RISER ASSEMBLY SHALL INCLUDE BUTTERFLY CONTROL VALVE INDICATING "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
7. PROVIDE RISER ROOM IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER ROOM.
8. PROVIDE IDENTIFICATION SIGNAGE FOR EACH SPRINKLER HEAD AND IDENTIFY EACH HEAD WHERE FEASIBLE. INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
9. PROVIDE DRAINAGE DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE. PROVIDE WITH ISOLATION VALVE AND THREADED SHOE CONNECTION.
10. PROVIDE FOR STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
11. PROVIDE INTERFERENCE DETAIL FOR SPRINKLER HEADS WHERE REQUIRED BY NFPA 13 UNLESS OTHERWISE NOTED.
12. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
13. THE CONTRACTOR MUST BE NOTIFIED IN WRITING AND ADVISORY DURING OR RECHARGING OF THE SPRINKLER SYSTEM.
14. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SUBMIT THE SAME TO THE PROJECT ARCHITECT HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
15. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY DRAWINGS SHOWING THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
16. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS. VERIFY ALL DIMENSIONS PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. CONTRACTOR SHALL FOLLOW THE MECHANICAL SHEETS AND THE MECHANICAL, ELECTRICAL, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR SHALL PROVIDE THE EXACT FORM, FIT, FINISH, AND FUNCTION OF THE EQUIPMENT. THE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN THE MATERIAL SPECIFICATIONS AND THE SPECIFICATIONS ARE TO BE BETWEEN DRAWINGS, THE HATCHED AN/OR SPECIFICATIONS, THE HIGHER QUALITY GREATER NUMBER SHALL GOVERN.
4. ALL MECHANICAL, ELECTRICAL, PLUMBING, MEDICAL GAS, AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CLEARANCES ON THESE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO THE REVIEW OF ALL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING NO CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
5. THE CONTRACTOR SHALL PROVIDE THE EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
6. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
7. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHARGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
8. REFER TO ARCHITECTURAL, REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CLEARANCES. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. SEAL ALL FLOOR WALL AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND ELECTRICAL PENETRATIONS ARE REQUIRED. THE CONTRACTOR SHALL PROVIDE A SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
10. CLEARANCES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, ROOFS, ETC.
11. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO: TRANSFORMERS, DISCONNECTS, AND STARTERS.
12. THE MINIMUM CLEARANCE SHALL BE 6'-0" MEASURED FROM THE FLOOR TO THE TOP / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS HIGHER. SYSTEMS FOREIGN TO THE PROJECT SHALL BE MAINTAINED AND PROTECTED AS SHOWN IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.

F-000	FIRE PROTECTION COVERSHEET
F-201	LEVEL 01 PLAN - FIRE PROTECTION
F-400	FIRE PROTECTION DETAILS
F-600	FIRE PROTECTION SCHEDULES
GRAND TOTAL: 4	

NAME — LEVEL NAME  
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

 **1** **VIEW NAME**  
1/8" = 1'-0"  
PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

T101

NEW WORK BY THIS CONTRACTOR (WIDE LINE)  
 \_\_\_\_\_ NEW  
 ----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)  
 \_\_\_\_\_ NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)  
 \_\_\_\_\_ EXISTING  
 ----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)  
 \_\_\_\_\_ EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL






















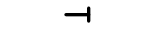

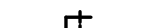
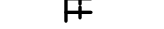
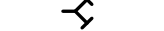
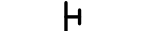
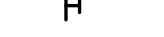
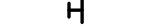


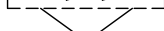









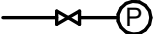

INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

 INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

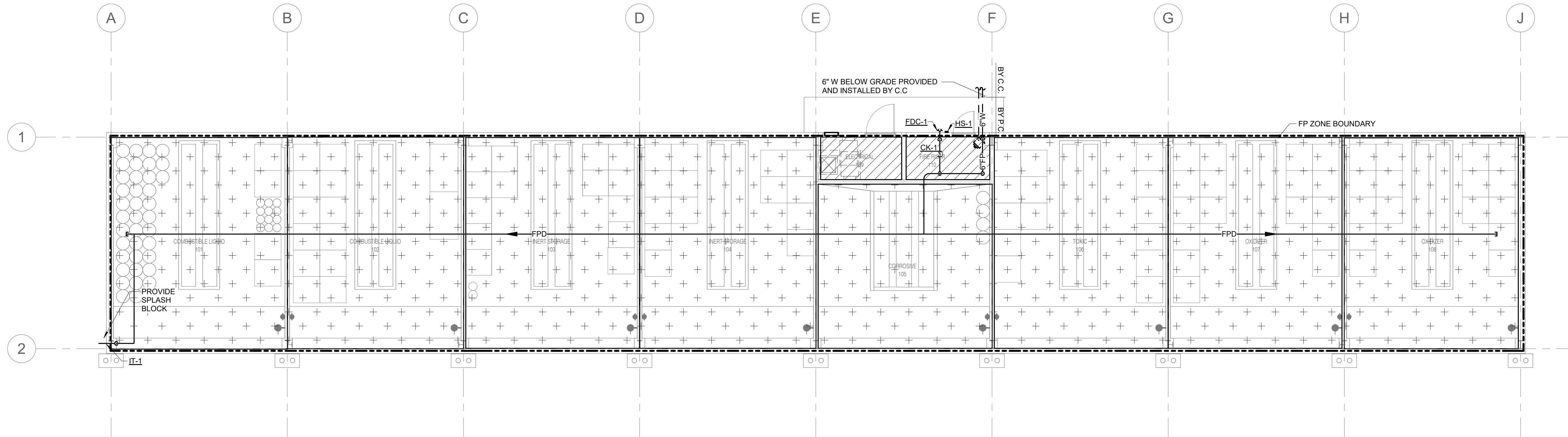
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:	
BUILDING CODE:	IBC 2021 EDITION
PLUMBING CODE:	IPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
LOCAL BUILDING CODE:	LOUISIANA STATE UNIFORM CONSTRUCTION CODE

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	COMPRESSED AIR - FIRE PROTECTION
	DRAIN
	FIRE PROTECTION
	FIRE PROTECTION - DRY SYSTEM
	SERVICE WATER - POTABLE
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	UNION/FLANGE
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	SHUTOFF VALVE NORMALLY OPEN
	AUTOMATIC DRAIN VALVE
	AIR PRESSURE MAINTENANCE DEVICE
	AIR SUPERVISORY SWITCH
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	CHECK VALVE
	INDICATOR POST - WALL MOUNTED
	INDICATOR POST - YARD MOUNTED
	FIRE PUMP TEST CONNECTION
	FIRE DEPARTMENT CONNECTION - WALL EXPOSED
	FIRE DEPARTMENT CONNECTION - WALL FLUSH
	FIRE DEPARTMENT CONNECTION - WALL STORZ
	FIRE DEPARTMENT CONNECTION - YARD
	BACKFLOW PREVENTER
	INSPECTOR TEST AND DRAIN VALVE
	OS&Y GATE VALVE
	OS&Y GATE VALVE WITH MONITOR SWITCH
	FLOW SWITCH
	PRESSURE SWITCH
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	MONITOR SWITCH
	AREA BOUNDARY
	NO HATCH
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION
	EXTRA GROUP 1
	EXTRA GROUP 2
	SPRINKLER - WALL MOUNTED
	SPRINKLER
	SPRINKLER - CONCEALED

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED



**1 LEVEL 01 PLAN - FIRE PROTECTION**  
1/8" = 1'-0"

**VG CP2 CHEMICAL STORAGE BUILDING**

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CAMERON, LA 70631

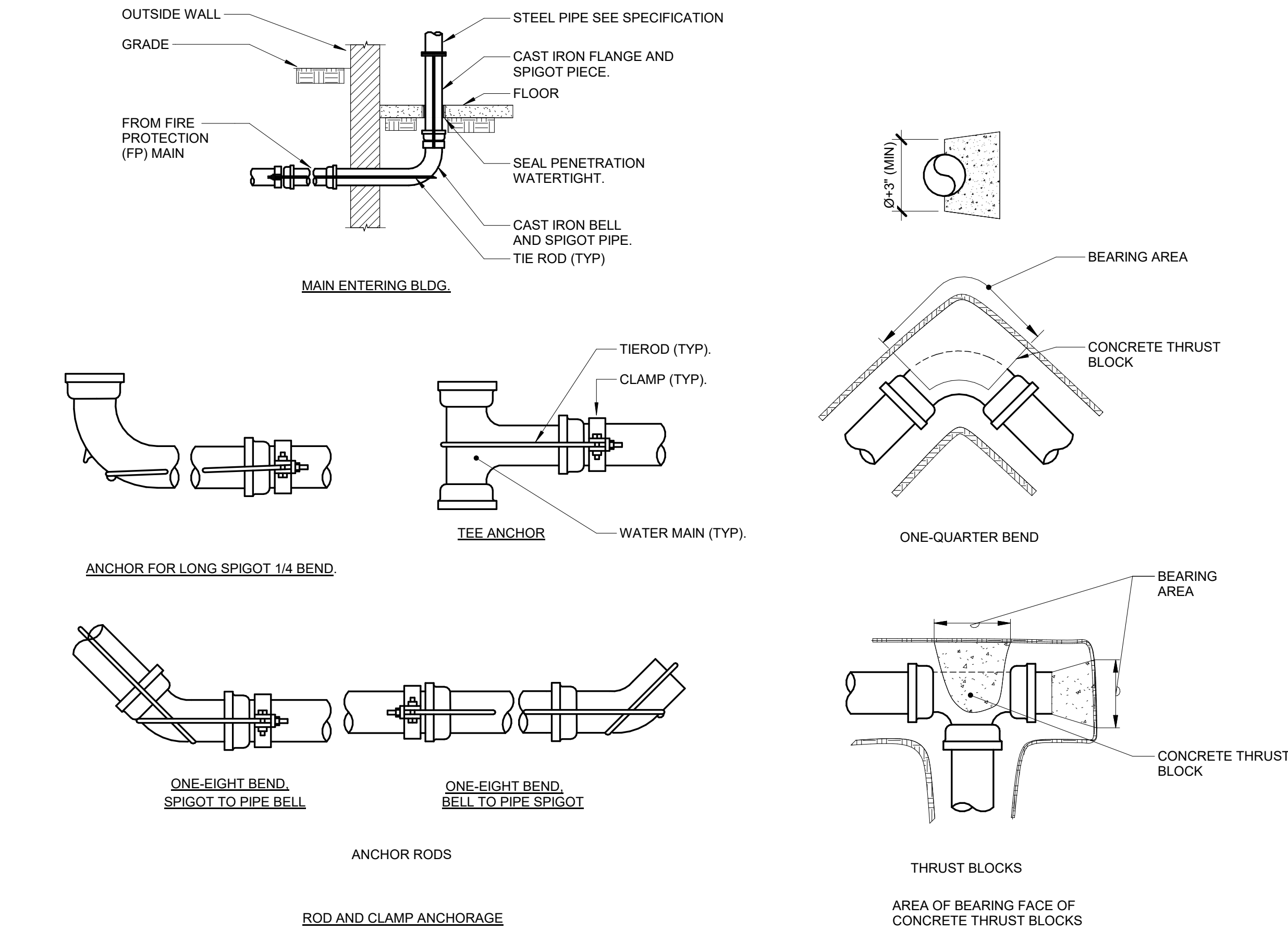
REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION



02.13.2025  
EXP. 09.30.2026

**LEVEL 01 PLAN - FIRE PROTECTION**

**F-201**



ROD AND CLAMP ANCHORAGE												
PIPING NOMINAL SIZE (IN.)	CLAMP SIZE (IN.)	BOLT SIZE (IN.)	WASHER (N)		NUMBER OF RODS AND ROD SIZE(IN.) FOR ROD AND CLAMP ANCHORAGE							
					MECHANICAL JOINT				PUSH ON JOINT			
			CAST IRON	STEEL	90° 1/4 BEND	45° 1/8 BEND	TEE HYDRANT CAP, PLUG	90° 1/4 BEND	45° 1/8 BEND	TEE HYDRANT CAP, PLUG	90° 1/4 BEND	45° 1/8 BEND
2	2	2			2	2	2	2	2	2	2	
4	1/2x2	5/8	5/8x3	1/2x3	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6					2	2	2	2	2	2	2	2
8	5/8x 2-1/2	3/4			3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10		4			2	4	4	4	4	4	4	4
		7/8			3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
					6	4	4	4	4	4	4	4
12	5/8x3	3/4			3/4	3/4	7/8	7/8	7/8	7/8	7/8	7/8
		3/4x 3-1/2			1/2x 3-1/2	8	6	6	4	4	4	4
					3/4	3/4	3/4	4	1	1	1	1

PIPING NOMINAL SIZE (IN.)	MIN. SQ. FT.			
	1/4 BEND	1/8 BEND	TEES, PLUGS, CAPS, HYDRANTS	
4	3	2	3	
6	7	4	5	
8	11	6	8	
10	17	9	12	
12	24	13	17	

NOTES:

- AFTER INSTALLATION, PROTECT TIE RODS, BOLTS, NUTS, WASHERS AND CLAMPS AGAINST CORROSION WITH A HEAVY COAT OF ASPHALT MATERIAL.
- THE LENGTH OF THE ROD REQUIRED WILL VARY WITH THE PIPE FITTING, AND MUST BE DETERMINED BY FIELD MEASUREMENT IF THE DISTANCE BETWEEN THE JOINTS IS LESS THAN 12 FEET, EXTEND THE ANCHORAGE TO THE SECOND BELL.

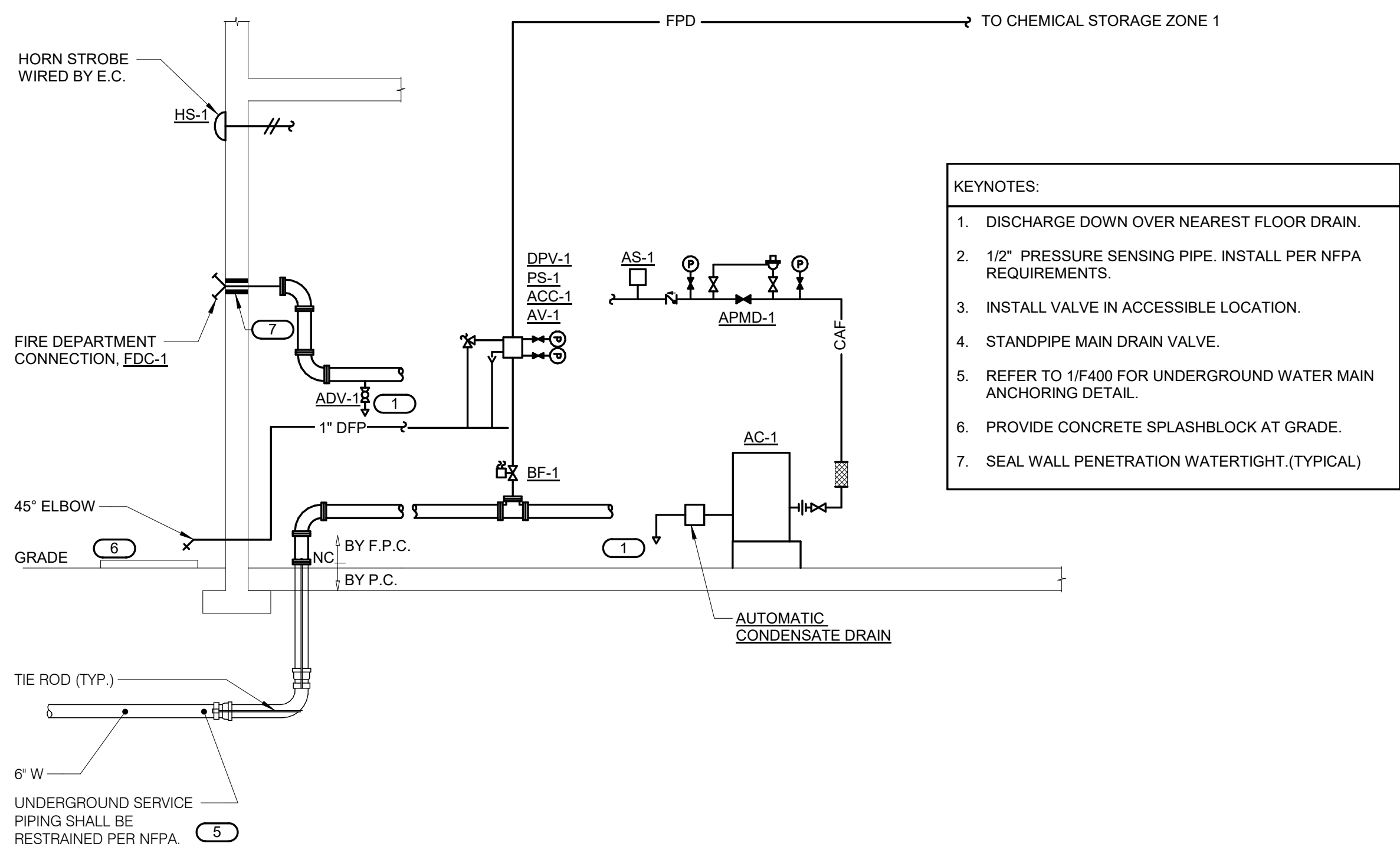
NOTES:

- BOTH THRUST BLOCKING AND ANCHOR RODS ARE REQUIRED.
- REFER TO THE GOVERNING CODE AND NFPA 24 FOR ADDITIONAL REQUIREMENTS.

BASIS: 2,000 LB/SQ.FT. SOIL RESISTANCE.  
250 PSI WATER PRESSURE.  
CORRECTION FACTORS FOR OTHER SOILS:  
SOFT CLAY.....4  
SAND.....2  
SAND&GRAVEL...1.33  
SHALE.....0.4

## 1 UNDERGROUND WATER MAIN ANCHORING

NO SCALE



## 2 FIRE PROTECTION RISER DIAGRAM

NO SCALE

REV	DATE	DESCRIPTION
0	02/13/2025	ISSUED FOR CONSTRUCTION



## FIRE PROTECTION MATERIAL LIST

TAG NAME	DESCRIPTION	ELECTRICAL				MANUFACTURER AND MODEL
		HP (NOTE E)	VOLTAGE	PHASES	# OF WIRES	
AC-1	RISER MOUNTED AIR COMPRESSOR, FULLY AUTOMATIC, DIRECT DRIVE, OIL LESS PISTON COMPRESSOR, SINGLE STAGE, AIR COOLED, UL LISTED FIELD ADJUSTABLE PRESSURE SWITCH, PRESSURE GAUGE, PRESSURE RELIEF VALVE, BUBBLE TIGHT CHECK VALVE, INTAKE FILTER, RISER MOUNTING BRACKET, STAINLESS STEEL FLEXIBLE HOSE, UL 1450 FOR USE WITH FIRE SPRINKLER SYSTEMS.	2	115	1	0	GENERAL AIR PRODUCTS OL PLUS SERIES, GAST
	CAPACITY: SIZED TO FILL SPRINKLER SYSTEM TO 40 PSI WITHIN 30 MINUTES PER NFPA 13 REQUIREMENTS.					
HS-1	FIRE SPRINKLER HORN/STROBE - RATED FOR INDOOR OR OUTDOOR USE, WEATHERPROOF RED GLASSING AND BACKBOX, WHITE LETTERING "SPRINKLER FIRE -ALARM", FIELD SELECTABLE INSTALLATION.	0	120	1	0	POTTER SASH-120, SYSTEM SENSOR P22KH

TAG-NAME	DESCRIPTION	MANUFACTURER AND MODEL
ADV-1	AUTOMATIC DRIP VALVE, FOR USE ON INLET SIDE OF FDC OR PUMPER CONNECTION, 175 PSI BRASS OR BRONZE BODY, STAINLESS STEEL OR BELLERUP COPPER SPRING AND RETAINING RING, MIN. CLOSING PRESSURE 7 PSI WITH INCREASING PRESSURE, MIN OPENING PRESSURE 5 PSI WITH DECREASING PRESSURE, 1/2" NPT INLET AND 1/4" NPT DRAIN OUTLET, VALVE ORIENTATION SHALL BE INSTALLED ACCORDING TO MFR. RECOMMENDATIONS, ULFM	VIKING B-1, TYCO AD-2, RELIABLE MODEL C
APMD-1	AIR PRESSURE MAINTENANCE DEVICE, 175 PSI RATED, MAIN AND BYPASS LINE, CARBON FIBER BODY, WYE STRAIGHT, PRESSURE GAUGE TEST PORT, FIELD ADJUSTABLE PRESSURE REGULATOR, RESTRICTIVE ORIFICE CHECK VALVE, ULFM	GENERAL AIR AMD-1, VIKING CORP. D-2, TYCO AMD-1, RELIABLE A-2
AS-1	HIGH/LOW SUPERVISORY PRESSURE SWITCH, 250 PSI, 10 TO 100 PSI FIELD ADJUSTABLE PRESSURE RANGE, 2 TO 5 PSI ACTUATION DIFFERENTIAL, TWO SINGLE POLE DOUBLE THROW CONTACTS, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, ULFM	POTTER P540, SYSTEM SENSOR EPS40
AV-1	ANGLE VALVE, 1/2" TO 2", 175 PSI, RISING STEM, BRASS/BRONZE BODY, BRASS/BRONZE BONNET, INTEGRAL SEAT, SOFT DISC, HANDWHEEL, THREADED ULF	UNITED BRASS WORKS 126SUL, NIBCO G-1 301-W, VTI
BF-1	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, ULFM	NIBCO GD-476S-8N, CIRCULAR SERIES Y75, TYCO BFV-300, KENNEDY G300, GLOBE GLF300S, GLOBE GLF-300
BF-2	LUGGED OR WAFFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.  INDICATING BUTTERFLY VALVE, NORMALLY CLOSED, 300 PSI WWP, GROOVED TYPE DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, ULFM	NIBCO GD-486S-C8N, CIRCULAR SERIES 766, TYCO BFV-300C
CK-1	LUGGED OR WAFFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.  SWING CHECK VALVE, 300 PSI WWP, GROOVED/FLANGED TYPE, DUCTILE IRON BODY, STAINLESS STEEL HINGE ASSOCIATED WITH RUBBER GATED CLAPPER, BRASS SEAT RING, ACCESS COVER, 1/2" OR 3/4" NPT INLET & BOSSSES, VALVE LISTED FOR HORIZONTAL OR VERTICAL INSTALLATION, ULFM.	VIKING G-1, TYCO CV-1F
DPV-1	FLANGED TYPE IS ACCEPTABLE PROVIDED VALVE HAS THE FEATURES LISTED ABOVE.  DRY PIPE VALVE, 175 PSI RATED, DUCTILE IRON BODY, GROOVED/FLANGED NUT OUTLET, 175 PSI RATED, DUCTILE IRON BODY, VALVE COVER, LATCHING SPRING LOADED CLAPPER ASSEMBLY, EXTERNAL RESET CAPABILITY, AIR TO WATER PRESSURE AREA DIFFERENTIAL OF APPROXIMATELY 6 TO 1, TAPED OUTLET FOR DRAIN VALVE, ULFM	TYCO DPV-1, VIKING G, RELIABLE DRYPIPE DUCTUAL 768N, GLOBE MODEL RCW
FDC-1	VALVE TRIM PIPE AND FITTINGS SHALL BE GALVANIZED, PROVIDE AIR AND WATER GAUGES, ISOLATION VALVES, DRIP CLIP AND DRAIN VALVE AS REQUIRED FOR PROPER SYSTEM OPERATION.  EXPLODED TWO WAY FIRE DEPT INLET CONNECTION, CAST BRASS BODY WITH EXPLODED BRASS FINISH, 4" OR 6" OUTLET WITH 1/2" NPT INLET, 1/2" NPT CLAPPERS, PIN LUG SWIVELS, PLUGS AND CHAINS, WALL PLATE WITH SAME FINISH AS BODY LABELED "AUTO SPRK", ULF	FDC:  POTTER ROEMER 5750 SERIES, ELKHART BRASS MODEL 156, CROWER MODEL 6034032, GUARDIAN 61246126
FS-1	HOSE THREAD TYPE SHALL MATCH LOCAL FIRE DEPARTMENT REQUIREMENTS.  FLOW SWITCH - VANE TYPE, 450 PSI, 10% FLOW SENSITIVITY OF 4-10 GPM, TWO SINGLE POLE DOUBLE THROW SWITCHES, PNEUMATIC RESET ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, ULFM	TYCO FVS, SYSTEM SENSOR WFD
GA-1	GATE VALVE, OUTSIDE STEM AND YOKE (OS&Y), RESILIENT WEDGE, MINIMUM 200 PSI WWP, FLANGED OR GROOVED JUNCTION, DUCTILE/CAST IRON BODY AND BONNET/YOKE WITH PROTECTIVE COATING, DUCTILE/CAST IRON HANDWHEEL, CAST IRON END CAP, 1/2" NPT INLET, 1/2" NPT OUTLET, 1/2" NPT BRASS STEM, STAINLESS STEEL BOLTS AND NUTS, ADJUSTABLE PACKING, COILER/LOCKWASHER TO OPEN VALVE, ULFM	MUELLER R-2361, KENNEDY K3-RC, VIKING 771, WATTS 408-RW, NIBCO F-607-RW
IT-1	DRY SYSTEM INSPECTOR'S TEST VALVE, 300 PSI, INTEGRAL, SIGHT GLASS, FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, ULFM.	AGF 3011, RELIABLE MODEL TD, VICTAULIC TESTMASTER, GLOBE UT0
MS-1	OS&Y SUPERVISORY PRESSURE SWITCH, 250 PSI, 10 TO 15 PSI FIELD ADJUSTABLE PRESSURE RANGE, 2 PSI ACTUATION DIFFERENTIAL, TWO SINGLE POLE DOUBLE THROW CONTACTS, NEMA 3R DIE CAST ENCLOSURE WITH CORROSION RESISTANT PARTS, TAMPER RESISTANT, KNOCKOUTS FOR 1/2" CONDUIT, ULFM	POTTER OVSYS, SYSTEM SENSOR OSY2
PS-1	WATERFLOW PRESSURE SWITCH, 250 PSI, 4 TO 15 PSI FIELD ADJUSTABLE PRESSURE RANGE, 2 PSI ACTUATION DIFFERENTIAL, TWO SINGLE POLE DOUBLE THROW CONTACTS, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, BLEEDER VALVE, ULFM	POTTER PS10, SYSTEM SENSOR EPS10

NOTES:

1. SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
2. SPRINKLER SHALL HAVE COLOR CODED BULB, ELEMENT.
3. ALL SPRINKLERS SHALL BE UL LISTED.
4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL, CEILING HEIGHT AND INFRA TO REQUIREMENTS.
5. SEE ALSO IT PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS.
6. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
7. AREAS ARE GENERALLY FIRE CONDUCTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
8. SPRINKLERS SHALL HAVE A 3mm quick RESPONSE BULB.
9. SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE.
10. SPRINKLERS ARE PERMITTED PROVIDED SPRINKLERS MEET THE REQUIREMENTS OF UL.

SPRINKLER				TEMPERATURE RATING	MANUFACTURER & MODEL	NOTES
TAG NAME (NOTE 4 & 5)	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH			
SPR-8	DRY UPRIGHT	QUICK	ROUGH BRASS	(155), (175), (200), (286), (PER NFFA)	VIKING VK, TYCO DS-1, VICTAULIC V3602	NOTE 3, 10

# VG CP2 CHEMICAL STORAGE BUILDING

DAVIS RD.  
CAMERON, LA 70631

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## FIRE PROTECTION SCHEDULES

## F-600

SECURITY CLASS: COMPANY USE  
C2-099700-FGS-SCH-ENA-00002-00

