

PROPOSED CONSTRUCTION DOCUMENTS FOR

CEFCO #446

NWC I-10 AND HIGHWAY 331
DEFUNIAK SPRINGS, FL

MARCH 31, 2023

INFINITY PROJECT #: 170-95.00



No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/31/2023

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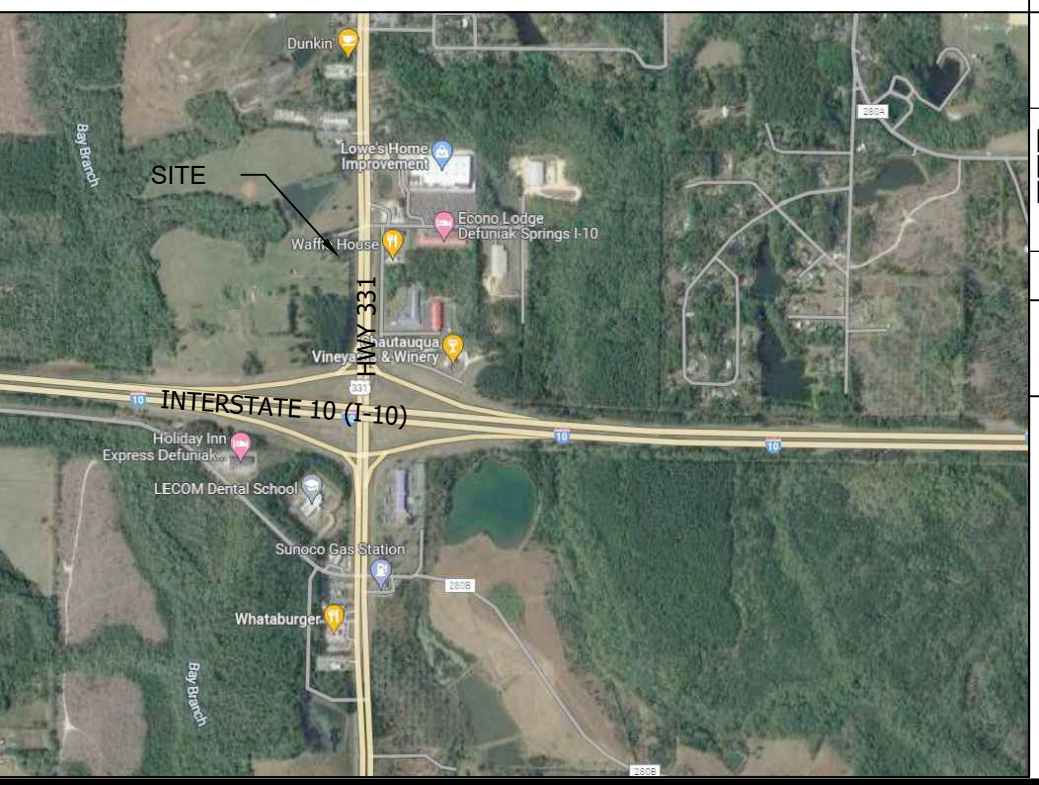
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FLORIDA PRODUCT APPROVAL INFORMATION

PRODUCT CATEGORY / SUBCATEGORY	MANUFACTURER	APPLICATION NUMBER
STOREFRONT PANEL	OLD CASTLE BUILDING ENVELOPE, INC.	FL 20665.1 R3
EXTERIOR DOOR / SWINGING EXTERIOR DOOR ASSEMBLIES	OLD CASTLE BUILDING ENVELOPE, INC.	FL 17692.1 R5
EXTERIOR STEEL DOOR	QUALITY ENGINEERED PRODUCT CO. INC.	NOA 19-0507.03
FIXED WINDOW	EJROTECH INDUSTRIES, INC.	NOA 20-1203.09
SINGLE PLY ROOFING SYSTEM	FIRESTONE BUILDING PRODUCT COMPANY	NOA 22-0920.04

VICINITY MAP



PROJECT TEAM

OWNER

DESIGN TEAM

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Date _____

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
COVER SHEET

Project No.
170-95.00

Sheet
CS0.0

Drawn By:
KM

Checked By:
AFO

KEYED NOTES:

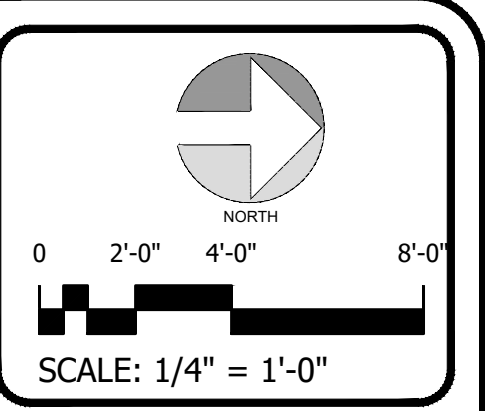
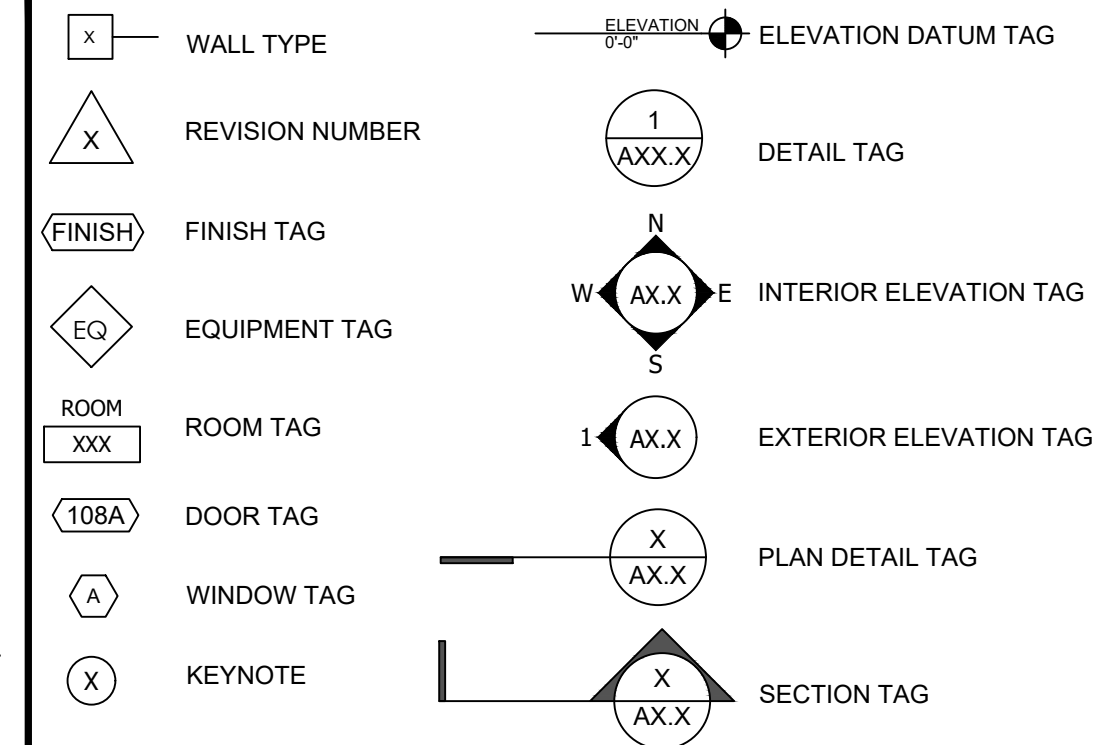
- 1 ALL INTERIOR WALLS AND EXPOSED WALK IN COOLER WALLS IN CUSTOMER AREA ARE TO BE COVERED W/ 5/8" FIRE CODE GYPSUM BOARD.
- 2 WALK IN COOLER FACES ARE TO BE COVERED WITH 1/4" GYPSUM BOARD LAMINATE TO WALL.
- 3 ALL WALK IN COOLER DOORS ARE TO BE COORDINATED WITH OWNER AND COOLER VENDOR (BASIS OF DESIGN: GEMTRON-SIERRA 30" X 75").
- 4 EXTERIOR ALUMINUM LADDER MODEL NO. 564HD-C WITH SECURITY DOORS MODEL NO. H-300 PRIMED AND PAINTED AS PER OWNERS SPECIFICATIONS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
- 5 GAS READOUT AND TELEPHONE BOARDS WILL REQUIRE 5/8" F.T. CDX PLYWOOD PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. PAINT MATTE WHITE. MUST BE CLEANABLE SURFACE. CPI PANELS TO BE INSTALLED BY VENDOR.
- 6 SECURITY SYSTEM: PROVIDE 3/4" CONDUIT STUBBED UP ABOVE CEILING HEIGHT. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 7 GASOLINE EQUIPMENT LINES TO BE RUN UNDER FINISHED FLOOR. REFER TO TANK DRAWINGS.
- 8 BEVERAGE LINES BAG-N-BOX TO FOUNTAIN DRINK DISPENSER TO BE RUN ABOVE CEILING GRID. LOW VOLTAGE EQUIPMENT AREA; SEE LOW VOLTAGE PLAN FOR MORE DETAILED INFORMATION.
- 9 LOW VOLTAGE EQUIPMENT AREA; SEE LOW VOLTAGE PLAN FOR MORE DETAILED INFORMATION.
- 10 RECESSED JUNCTION BOX FOR BULK CO2 CONNECTION.
- 11 ALL WALLS TO RECEIVE FLOOR TO CEILING FRP AND COVE BASE. VERIFY SPECIFICATIONS WITH OWNER.
- 12 DOORS WITH CLOSERS SHALL BE ADJUSTED SUCH THAT FROM AN OPENING POSITION OF 90 DEGREES THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH SHALL TAKE 5 SECONDS MIN. ALL INTERIOR SWINGING EGRESS DOORS SHALL OPERATE WITH A PUSH/PULL FORCE OF 5 LBS. FLORIDA ADA CODES CHAPTER 4. ALL EXTERIOR DOORS WITH A CLOSER SHALL OPERATE WITH A PUSH/PULL FORCE OF 8.5 LBS. MAXIMUM.
- 13 ICS OR EQUAL WALK-IN COOLER, VAULT, AND RELATED EQUIPMENT FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER
 - ELECTRICAL CONNECTIONS FOR FANS, CONDENSER
 - CONNECTIONS BY ELECTRICAL CONTRACTOR
 - PLUMBING CONNECTIONS FOR CONDENSATION LINES BY PLUMBING CONTRACTOR
 - REFRIGERATION CONNECTIONS BY HVAC CONTRACTOR
- 14 ALL WET AREAS: SINKS, LAVATORY, URINAL AND TOILET LOCATIONS SHALL HAVE CEMENT BOARD BACKING UP TO 48" AFF. USE MOISTURE RESISTANT COVERED GYPSUM BOARD ABOVE CEMENT BOARD WHERE APPLICABLE.
- 15 ALL CONDUITS FROM BACK ROOM OVER GYPSUM BOARD CEILING TO BE PLACED IN CONDUIT PROPERLY SIZED FOR SERVICE LINE. CONDUIT TO EXTEND TO EDGE OF GYPSUM BOARD CEILING WITH SWEEPS.
- 16 TWO REMOVABLE SMOOTH 3/8" PLYWOOD PANELS PAINTED BOTH SIDES. PANELS TO START AT APPROX. 1/2" ABOVE DRINK COUNTER TO 9'-8" AFF OR 4" FROM CEILING GRID WITH LATCH TO SECURE DOORS IN PLACE.
- 17 PARTIAL HEIGHT WALL (PART OF MILLWORK SYSTEM), SEE ELEVATIONS. CONSTRUCTION TO MATCH TYPE 1A. SEE MILLWORK DRAWINGS FOR MORE DETAILS.
- 18 FURRED WALLS AT TOP OF COOLER TO BE 3-5/8" METAL STUDS @ 16" O.C. WITH 6/8" MOISTURE RESISTANCE GYPSUM WALLBOARD. ALIGN FACE WITH 1/4" GYPSUM WALLBOARD ON COOLER.
- 19 FURNISH AND INSTALL NEW DIRECTIONAL SIGNAGE TO ADA ENTRANCE. SEE ACCESSIBILITY DETAILS FOR ADDITIONAL INFORMATION.

- 20 FURNISH AND INSTALL NEW HORIZONTAL TACTILE EXIT SIGN. SEE DETAIL A13.1 FOR MOUNTING HEIGHTS AND SPECIFICATION.
- 21 FURNISH AND INSTALL NEW VERTICAL TACTILE EXIT SIGN. SEE DETAIL A13.1 FOR MOUNTING HEIGHTS AND SPECIFICATION.
- 22 GC TO PROVIDE CHASE FOR ELECTRICAL AT HUSSMAN CASE.
- 23 GC TO INSTALL DOOR STOP AND RUBBER STOPPERS FOR THE HINGE, PROVIDED BY OWNER.

GENERAL NOTES

- 1. PROVIDE BLOCKING FOR ALL EQUIPMENT AS REQUIRED.
- 2. INTERIOR LAYOUT DIMENSIONS ARE FACE TO FACE OF DRYWALL OR FINISH SURFACE, (U.N.O.).
- 3. LAYOUT AS DIMENSIONED ONLY: DO NOT SCALE. REFER TO SHEET A9 FOR PARTITION TYPES.
- 4. ALL FIXTURES AND/OR EQUIPMENT FURNISHED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- 5. SEE SHEET A9 FOR DOOR AND HARDWARE SCHEDULE.
- 6. SEE SHEET A10 AND A10.1 FOR INTERIOR FINISH SPECIFICATIONS.
- 7. SEE SHEET A3 FOR EQUIPMENT SCHEDULE & LOCATION.
- 8. ALL CONSTRUCTION SHALL COMPLY W/ ALL CURRENT A.D.A. SPECIFICATIONS. GC TO ADDRESS ALL SELF-SERVICE & DISPENSING DEVICES.
- 9. SEE MEP DRAWINGS FOR LOCATIONS OF ALL CONDUIT.
- 10. EXTERIOR WALLS ARE SHOWN AS 6" METAL STUDS WITH STUCCO FINISH AND CREATIVE FAUX STONE SYSTEM. IF OTHER CONSTRUCTION METHODS ARE USED, IT BECOMES THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ADJUST THE OVERALL OUTSIDE DIMENSIONS IN ORDER TO MAINTAIN THE INSIDE CLEAR DIMENSIONS AS INDICATED.
- 11. G.C. TO MAINTAIN 2"-3" MOISTURE GAP BETWEEN COOLER AND SUBROUNDING WALLS.
- 12. PARTIAL HEIGHT WALLS TO RECEIVE STAINLESS STEEL CAP. REFERENCE FINISH SCHEDULE FOR SPECIFICATION.

PLAN SYMBOLS



No.	Revision/Issue	Date
1	ISSUE CLIENT COMMENTS - REV. 1	01/04/2024
2	ISSUE FOR PERMIT	03/17/2023

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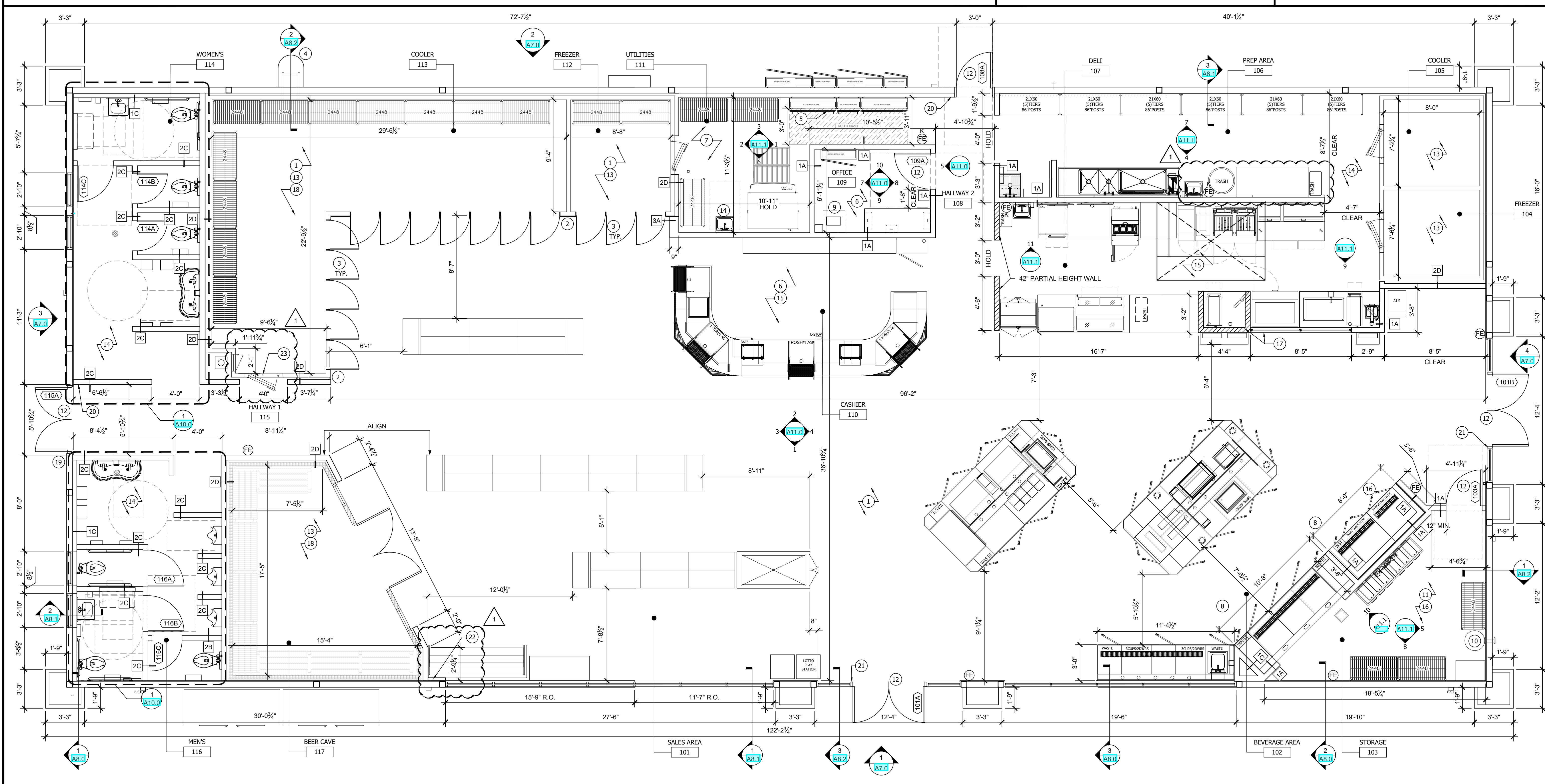
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NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
FLOOR PLAN

Project No. 170-95.00	Sheet A2.0
Drawn By: KM	Checked By: AFO



FLOOR PLAN SCALE 1/4"=1'-0" **1**

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	FURNISHED BY	INSTALLED BY
14	BEER CAVE	KPS	PDT1030	G.C.	G.C.
15	CONDENSING UNIT	HEATCRAFT	MOZO25M63CF	G.C.	G.C.
16	EVAPORATOR	HEATCRAFT	SME1308EE	G.C.	G.C.
17	DOORS	ANTHONY	101/103 LED	G.C.	G.C.
18	3-DOOR FREEZER	ICS	PDT1030	G.C.	G.C.
19	CONDENSING UNIT	HEATCRAFT	MOZO55L63CF	G.C.	G.C.
20	EVAPORATOR	BOHN	LET160BEK	G.C.	G.C.
21	TEA BREWER DISPENSER	BUNN	39600.0047	OWNER	G.C.
22	CO2 BOTTLE			OWNER	G.C.
23	BAG-N-BOX			OWNER	G.C.
24	FOUNTAIN FLAVOR FUSION	CORNELIUS	621057644	OWNER	G.C.
25	FUEL MANAGEMENT			OWNER	G.C.
26	CASH REGISTER			OWNER	G.C.
27	CREDIT CARD			OWNER	G.C.
28	GEMINI LOTTO	VERIFY W/OWNER		OWNER	G.C.
29	LOTTO MACHINE	A PER STATE		OWNER	G.C.
30	UNDER COUNTER SAFE	ARMOR	CS 7100	OWNER	G.C.
31	FILTER SYSTEM	EVERPURE	EV9328-06	OWNER	G.C.
32	TEA BREWER-ITB VIF W/OWNER BEFORE PURCHASE	BUNN	52000.0301	OWNER	G.C.
33	TRASH RECEPTACLE			OWNER	G.C.
34	TRASH RECEPTACLE	RUBBERMAID	FG354060BLA	OWNER	OWNER
35	COFFEE DISPENSERS	BUNN	27850.0212	OWNER	G.C.
36	CAPPUCCINO MACHINE	BUNN	IMIX-35+ 38600.0001	OWNER	G.C.
37	ICB TWIN SH, COFFEE BREWER	BUNN	51200.0100	OWNER	G.C.
38	HEATED DISPLAY CASE (COUNTERTOP)	HATCO	GRSD5-36T	OWNER	G.C.
39	MICROWAVE	PANASONIC	NE-1054F	OWNER	G.C.

21	RAPID COOK OVEN	OVENTION	MISA-A12	OWNER	G.C.
22	GONDOLA SHELVING	LOZIER OR EQUAL	PER MANUF. SPECS	OWNER	G.C.
23	ICE MAKER	HOSHIZAKI	KM-1601SRJ	OWNER	G.C.
24	ICE MAKER CONDENSER	HOSHIZAKI	URC-22F	OWNER	G.C.
25	ICE BAGGER	KLOPPENBERG	DISP-1000	OWNER	G.C.
26	ATM	ANY CARD		OWNER	G.C.
27	PIZZA PREPARATION REFRIGERATOR	TRAUlsen	TB0465L3S	OWNER	G.C.
28	3 SIDED BAKERY CASE	MILLWORK SUPPLIER			
29	FROZEN UNCARBONATED BEVERAGE MACHINE	BUNN	34000.0520	OWNER	G.C.
30	MOP SINK	ADVANCE TABCO	9-OP-24FM-SSR	OWNER	G.C.
31	POT & PAN WASHER	POWERSOAK	CUSTOM	OWNER	G.C.
32	STORAGE SHELVING	AMCO	AMCO II	OWNER	G.C.
33	HOT DOG GRILL	STAR	75STBDE	OWNER	G.C.
34	LOTTERY STATION			OWNER	G.C.
35	CUSTOMER KIOSK	BY OWNER	CUSTOM	OWNER	G.C.
36	SANDWICH/SALAD PREP REF.	BEVERAGE-AIR	SPE27HC-12M-B	OWNER	G.C.
37	REFRIGERATED COUNTERTOP DISPLAY	VOLLRATH	40886	OWNER	G.C.
38	HEATED DISPLAY CASE (COUNTERTOP)	ALTO-SHAAM	ED2-48-SS	OWNER	G.C.
39	ICE MAKER	HOSHIZAKI	FD-1002MRJ-C	OWNER	G.C.
40	ICE MAKER CONDENSER	HOSHIZAKI	URC-5F	OWNER	G.C.
41	HAND SINK	ADVANCE TABCO	7-PS-EC-SP-1X	G.C.	G.C.
42	WORK TABLE	ADVANCE TABCO	SS-366	OWNER	G.C.
43	BOHA TERMINAL	TRANSACT		OWNER	G.C.
44	CONDENSING UNIT	HUSSMANN	ASH9512NAFP1	OWNER	G.C.
45	WORK TABLE	ADVANCE TABCO	KMSLAG-306-X	OWNER	G.C.
46	CHILLI/CHEESE DISPENSER	GEHL'S 2.0		OWNER	G.C.
47	COLD CASE	HUSSMANN	IM-05-IM-R	OWNER	G.C.

48	REF. PIZZA PREP.	BEVERAGE-AIR	DPD67HC-4	OWNER	G.C.
49	ICE MERCHANDISER	POLAR TEMP	600AD	OWNER	G.C.
50	TANKLESS WATER HEATER	-	REFER TO PLUMBING	G.C.	G.C.
51	WIRE SHELVING UNIT	CENTAUR	C2160K	OWNER	G.C.
52	TYPE-1 9' HOOD WITH SUPPRESSION SYSTEM. (STAINLESS STEEL PANELS TO BE PROVIDED BY G.C.)	CAPTIVE AIRE	5424ND-2-ACPSF-F	OWNER	G.C.
53	HEATED DISPLAY CASE	ALTO-SHAAM	HSM-36/55/T	OWNER	G.C.
54	36" X 36" STAINLESS WORK TABLE			OWNER	G.C.
55	HIGH/LOW DRINKING FOUNTAIN	ELKAY	EZ5TL8C	G.C.	G.C.
56	OPEN VAT ELECTRIC FRYER	PITCO	SELVRF DUAL	OWNER	G.C.
57	INSTANTANEOUS WATER HEATER	CUSTOM	REFER TO PLUMBING	G.C.	G.C.
58	HAND DRYER	WORLD DRYER CORP.	VERIDERT Q-973A	G.C.	G.C.
59	CONDENSING UNIT	HEATCRAFT	MOZO25L63CF	G.C.	G.C.
60	DROP-IN HOT WELLS	ALTO-SHAAM	300-HW/D6	OWNER	G.C.
61	HAND SINK	EAGLE GROUP	SR19-16-13.5-1	OWNER	G.C.
62	EASIWASH HOSE		REFER TO PLUMBING	OWNER	G.C.
63	EASIWASH WASH		REFER TO PLUMBING	OWNER	G.C.
64	FRONT COUNTER MILLWORK	SHOPCO	CUSTOM	OWNER	G.C.
65	CONVECTION OVEN	OVENTION	DOUBLE MILOZ-16	OWNER	G.C.
66	SANDWICH PRESS	VOLLRATH	40792	OWNER	G.C.
67	SSS COLD CASE	HUSSMANN	555	OWNER	G.C.
68	EVAPORATOR	HEATCRAFT	LET090BEK	G.C.	G.C.
69	WALK-IN COOLER	ICS	PDT1030	G.C.	G.C.
70	CONDENSING UNIT	HEATCRAFT	MOZO60M63CF	G.C.	G.C.
71	EVAPORATOR	BOHN	ADT120AEK	G.C.	G.C.
72	CONDENSING UNIT	HEATCRAFT	MOZO05M63CF	G.C.	G.C.
73	EVAPORATOR	BOHN	ADT070AEK	G.C.	G.C.

74	CONDENSER	HUSSMANN	ASHR94602NAFP1	OWNER	G.C.
75	FRYER DUMP STATION	PITCO	SE-BNB-14	OWNER	G.C.
76	GLASS SNEEZE GUARD			OWNER	G.C.
77	DROP-IN REFRIGERATION	APW WYOTT	CW-1	OWNER	G.C.
78	HEATED DISPLAY MERCHANDISER	HATCO	GRHW-15GD	OWNER	G.C.
79	2SH STAND	BUNN	27875.0200	OWNER	G.C.
80	RETHEMALIZING UNIT	PITCO	SRTE14-GM	OWNER	G.C.
81	WALL GRID SHELVING	METRO	SW56K4	OWNER	G.C.
82	WALL GRID SHELVING	METRO	VARIES	OWNER	G.C.
83	WALL GRID SHELVING	METRO	SWK36-1	OWNER	G.C.
84	SERVICE SINK FAUCET	ADVANCE TABCO	K-240	OWNER	G.C.
85	UTILITY SHELF	ADVANCE TABCO	K-245	OWNER	G.C.
86	MOP BROOM HOLDER	CARLISLE	4073100	OWNER	G.C.
87	22" KDS MONITOR	DELL	EZ216HV	OWNER	G.C.
88	TV SCREEN			OWNER	G.C.
89	PAPER TOWEL DISPENSER	KIMBERLY-CLARK	09996	OWNER	G.C.
90	SOAP DISPENSER, WALL MOUNTED	SCOTT	92145	OWNER	G.C.
91	INSTANTANEOUS WATER HEATER		REFER TO PLUMBING	G.C.	G.C.
92	INSTANTANEOUS WATER HEATER		REFER TO PLUMBING	G.C.	G.C.
93	HAND SINK			OWNER	G.C.

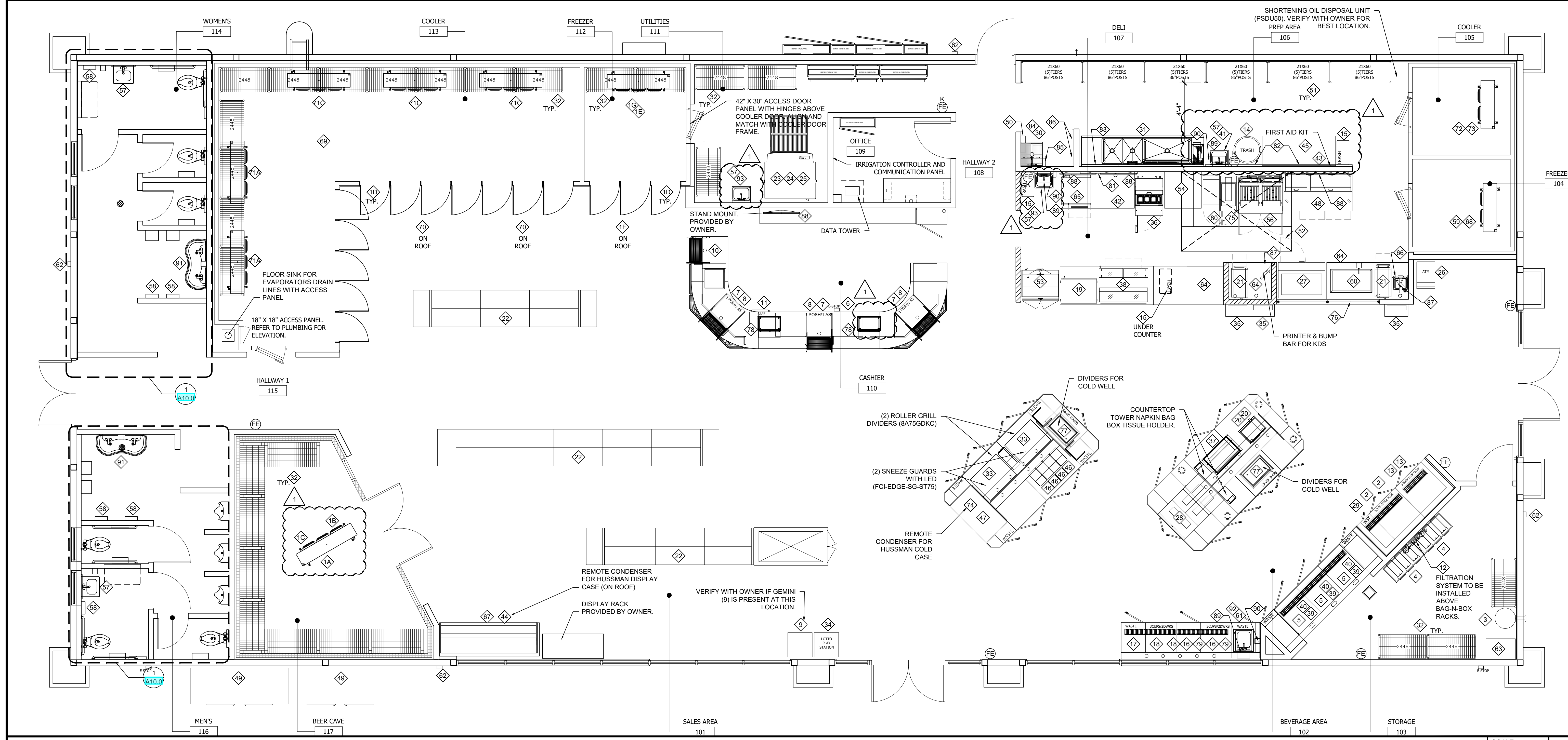
- ### GENERAL NOTES
- GENERAL CONTRACTOR TO COORDINATE WORK AND PROVIDE FINAL MECHANICAL & ELECTRICAL HOOK-UPS TO ALL EQUIPMENT AS REQUIRED. EQUIPMENT SUPPLIERS TO MATCH THESE PLANS FOR FLOOR SINK AND/OR DRAIN LOCATIONS.
 - GENERAL CONTRACTOR TO VERIFY WALK-IN COOLERS SIZE, MANUFACTURER, & POWER REQUIREMENTS.
 - GENERAL CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING BETWEEN STUDS FOR SUPPORT OF ALL WALL HUNG FIXTURES, WATER LINES, SHELVES, ETC.
 - ALL DIMENSIONS TO BE VERIFIED PRIOR TO EQUIPMENT FABRICATION.
 - LIGHTS: 12W / POST
 - DOOR & FRAME HEATER: 4.24A; 2-DOOR 30x75 (4.54A TOTAL)
 - 16.5A; 8-DOOR 30x75 (17.4A TOTAL)
 - 120V - 3x0.9A/36W (1) FAN MOTOR/DOOR
 - 0.45A/54W LIGHTING
 - 1.99A/229W DOOR HEATERS
 - 208V - 8.65/1800W DEFROST
 - COORDINATE WITH EQUIPMENT MANUFACTURER FOR RECEPTACLE REQUIREMENTS.
 - PROVIDE 40A, 3W + GND EQUIPMENT CORD AND PLUG WITH MATCHING RECEPTACLE.
 - REFER TO EQUIPMENT OUT-SHEETS FOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS.

INTERIOR ILLUMINATION LEVEL STD.

FUTURE KITCHEN	75 FOOT CANDLE AVERAGE
FRONT COUNTER	
RESTROOMS	50 FOOT CANDLE AVERAGE
STORAGE AREA	
UTILITY	30 FOOT CANDLE AVERAGE
WALK-IN COOLERS & FREEZER	

SCALE: 1/4" = 1'-0"

No.	Revision/Issue	Date
1	ISSUE CLIENT COMMENTS - REV 1	03/31/2023
2		



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Date

NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Project No.
170-95.00

Drawn By:
KM

Checked By:
AFO

Sheet
A3.0

Sheet Title
EQUIPMENT PLAN AND SCHEDULE

FIXTURE AND EQUIPMENT PLAN SCALE 1/4"=1'-0" **1**

CAMERAS CEFCO	
<ul style="list-style-type: none"> CAT 5 CABLE (POWER AND COMMUNICATION ARE ATTACHED), 4 BOXES OF 500' LEAVE 10' OF EXTRA CABLE AT EACH CAMERA LOCATION POINT. LEAVE 6' OF EXTRA CABLE AT OFFICE TERMINATION POINT. LABEL ALL WIRES WITH CAMERA #'S OR LOCATION. 	<p>NOTE: REFER TO OWNER FOR CAMERA LEGEND AND RELATED INFORMATION.</p> <ul style="list-style-type: none"> #1 REGISTER 1 #2 REGISTER 2 #3 REGISTER 3 #4 BEHIND COUNTER #5 SAFE CAMERA #6 FRONT OF COUNTER #7 FRONT DOOR #8 SIDE DOOR #9 TRUCKER ENTRANCE #10 AISLE 1 #11 AISLE 2 #12 AISLE 3 #13 STORE VIEW #14 FOUNTAIN VIEW 1 #15 FOUNTAIN VIEW 2 #16 BEER CAVE ISLE #17 BEER CAVE #18 SODA COOLER 1 #19 SODA COOLER 2 #20 HALLWAY BACK DOOR #21 OFFICE #22 ICE/STORAGE #23 STORAGE #24 KITCHEN 1 #25 KITCHEN 2 #26 KITCHEN WALK INS #27 KITCHEN 3 <ul style="list-style-type: none"> GENERAL CONTRACTOR TO PROVIDE 2" X 12" X 16" +/- WOOD BLOCKING AT HEIGHT DETERMINED BY OWNER FOR ALL EXTERIOR SECURITY CAMERAS.

DVR	
DVR	18/2 SHIELDED WITH GROUND. RUN FROM OFFICE TO FRONT COUNTER. (LEAVE EXTRA 10' AT BOTH TERMINATION POINTS)
MIC	MICROPHONE - 22/4 SHIELDED WITH GROUND. RUN UNDERGROUND AND TERMINATED ON THE INSIDE OF EACH POS SHROUD
SAFE	
SAFE	CAT 5 - RUN FROM OFFICE TO SAFE LOCATION (LEAVE EXTRA 10' AT BOTH TERMINATION POINTS)
ATM	
ATM	(INDOOR) 2 - CAT 5 FROM THE OFFICE TO ATM POSITION
LOTTERY	
LOT	LOTTO: CAT 5 FROM MODEM TO FRONT COUNTER TERMINAL (LEAVE ADDITIONAL 10 FT) CAT 5 FROM SALES COUNTER TO TICKET SCANNER (LEAVE ADDITIONAL 10 FT)
LM	LOTTERY MODEM AT D-MARK
CONDUIT BOX	
CB	CONDUIT BOX (LOCATED INSIDE WALL)
PORT PATCH PANEL	
PP	24-PORT PATCH PANEL
PK	4-PORT PATCH PANEL
PK-V	4 PORT PATCH PANEL WITH VIDEO
CONDUITS - SPARE	
CS	CONDUIT STUB UP
AC	AUDIO CABLE

SECURITY SYSTEM	
SP	SECURITY PANEL - ORIGINATE AT THE SECURITY PANEL AT D-MARK. (LEAVE ADDITIONAL 10 FT OF WIRE)
A	DOOR CONTACT: 22/4 WIRE (FRONT, SIDE, AND BACK DOORS) - ALL WIRING TO BE LOCATED WITHIN DOOR FRAMES
P	PANIC BUTTONS: 22/4 WIRE (TO ALL 3 REGISTERS)
M	MOTION DETECTORS: 22/4 WIRE MD#1 ATM MD#2 FRONT DOOR MD#3 SIDE DOOR MD#4 BACK DOOR
SK	SECURITY KEYPAD: 22/4 WIRE (TERMINATE FROM PUNCH BOARD AREA)
SS	SECURITY SIREN: 22/4 WIRE (TERMINATE IN STORE ABOVE FREEZER)
TELEPHONE	
T	STANDARD PHONE LINE LOCATED AT D-MARK - PULL PHONE LINES FROM PATCH PANEL TO THE REQUIRED TERMINATED POSITIONS. TRIM OUT AND CONFIRM DIAL TONE.
D-MARK	
DM	STANDARD D-MARK. 5-CAT 5 (FROM D-MARK TO OFFICE)
CHIME	
C	CHIME CONNECTED TO ENTRY DOORS. CHIMES IN COOLERS, BACK OFFICE/STORAGE ROOM AREA AND DELI PREP AREA WILL BE 22/4 WIRING, WHICH WILL BE PULLED INTO THE BACK OFFICE/STORAGE ROOM AREA AND NEAR THE ALARM PANEL. (A CONTROL PANEL WILL BE LOCATED THERE.) DOOR WIRING FOR THE ENTRY DOORS WILL BE TWO HOME RUNS (22/4 AT EACH) FROM THE BACK OFFICE/STORAGE ROOM AREA AND WITH EACH WIRE BEING SPLIT TO EACH DOOR. PER EACH POINT OF ACCESS. THIS WILL BE IN ADDITION TO THE 22/4 WIRING AT EACH SET OF DOORS. PER THE ALARM CONTRACTORS.

TRUSONIC	
SC	SPEAKER CONTROLS - ORIGINATE SPEAKER WIRES IN OFFICE NEXT TO VOLUME CONTROLS.
S	8 - TOTAL SPEAKERS
S	4 - SPEAKERS IN RETAIL AREA (CEILING MOUNTED) - INTERIOR SALES AREA SPEAKERS USE ON EACH RUN OF 16/4 SPEAKER CABLE DAISY CHAINED FOR THESE FOUR SPEAKERS. SPK #1 HOT FOOD/DRINK AREA SPK #2 AISLE 2 AREA SPK #3 FREEZER AREA SPK #4 ATM AREA
S	2 - SPEAKERS IN RESTROOMS 1 SPEAKER IN EACH RESTROOM (CEILING MOUNTED). RESTROOM SPEAKERS USE ONE RUN OF 16/4 SPEAKER CABLE DAISY CHAINED FOR THESE TWO SPEAKERS.
S	3 - SPEAKERS CENTERED IN EACH LAND BETWEEN ISLANDS (CEILING MOUNTED). USE ONE RUN OF 16/4 CHEMICAL RESISTANT CABLE TO CANOPY SPEAKERS. DAISY CHAIN BETWEEN SPEAKERS.
PRICER ID	
ID	RUN A BELDON 1420A 060, SHIELDED, 20 AWG, 3 TWISTED PAIR COMMUNICATION CABLE FROM EACH PRICE SIGN TO THE BACK OFFICE. 500 FOOT LENGTH FOR EACH ID SIGN.
DATA LINES	
CS	RUN TWENTY-FOUR (24) CAT 5 LINES FROM OFFICE TO THE SALES AREA COUNTER.
CS	RUN TWO (2) AT CAT 5 LINES FROM OFFICE TO THE KITCHEN AREA BEHIND OVEN AREA.
CS	RUN THREE (3) CAT 5 PHONE LINES & THREE (3) ALARM PANIC BUTTON LINES FROM D-MARK. RUN CAT 5 FROM D-MARK TO PATCH PANEL (TWO LINES/PER PHONE #) CASHIER
CS	RUN CAT 5 FROM AUTOMATIC TANK GAUGE TO BACK OFFICE.
CS-IP	IP CAT 5 LINES (TERMINATE LINES AS SHOWN)

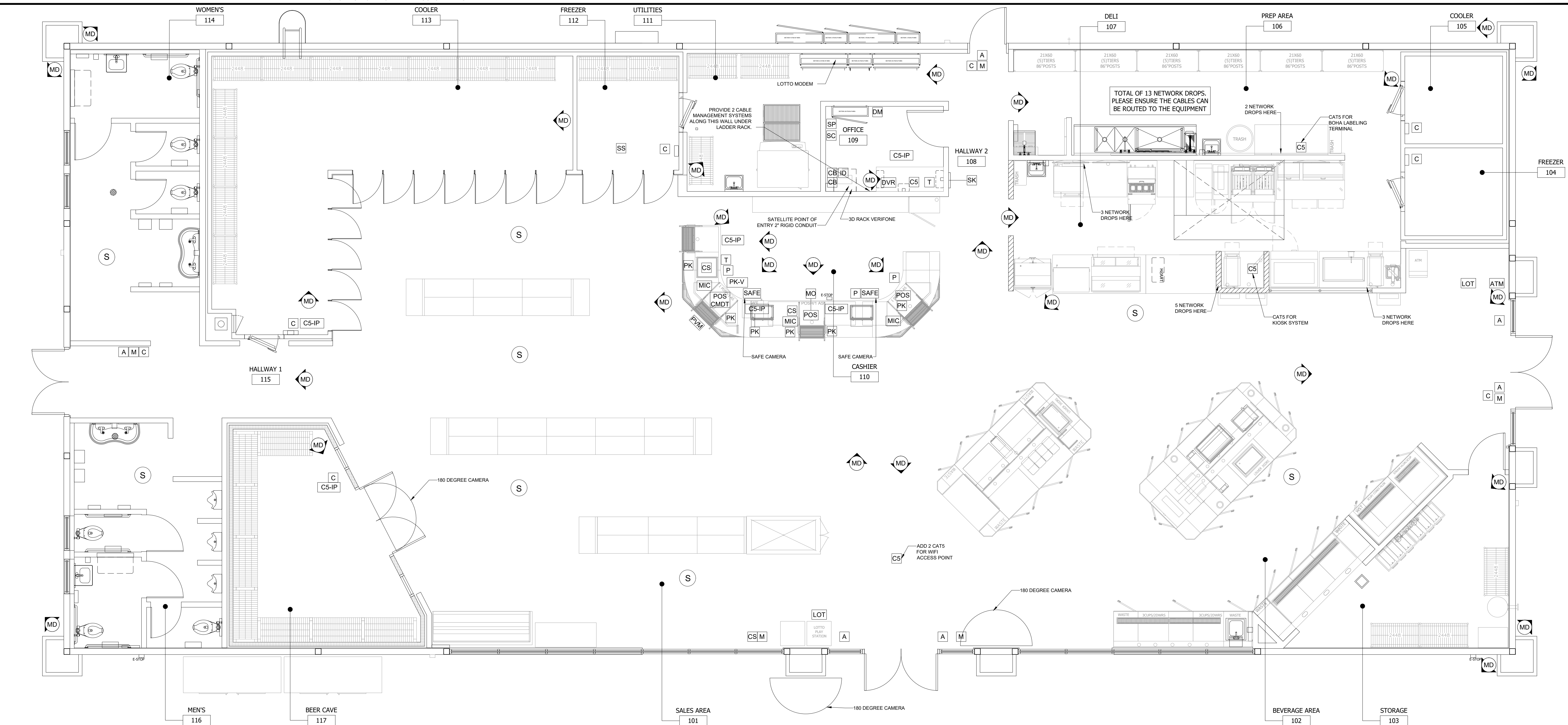
GENERAL NOTES	
1.	ALL CABLE RUNS ARE HOME RUNS (WITHOUT SPLICING) UNLESS OTHERWISE NOTED OR APPROVED BY OWNER.
2.	ALL CABLING TO THE SALES COUNTER TO BE IN ONE OF THE THREE (3) 2" UNDER SLAB CONDUITS DEPENDING ON THE CABLE'S POINT OF ORIGIN.
3.	ALL CAMERAS USE 18/2 RG 59 SIAMESE CABLE AND HOME RUN FOR EACH CAMERA. FOR EXTERIOR CAMERAS, PROVIDE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM THE EIFS LOCATION OF THE CAMERA TO ACCESSIBLE INTERIOR CEILING SPACE.
4.	ONE CONDUIT BOX TO BE MOUNTED ON THE 2" CONDUIT FROM THE SALES COUNTER. EACH CONDUIT BOX TO HAVE A 2" CONDUIT RAN FROM THE TOP OF THE BOX TO ACCESSIBLE CEILING NEAR THE OFFICE. BOTH BOXES OPEN INTO THE OFFICE AND SHOULD BE UNDER THE WORK COUNTER IF POSSIBLE.
5.	TELEPHONE OUTLET IN OFFICE AND ATM/LOTTO DATA BOX TO BE 1" CONDUIT RAN UP THE WALL TO ACCESSIBLE CEILING.
6.	ALL CABLING REQUIRED TO BE IN A WALL SPACE, TO AN EXTERIOR POINT, OR TO HARD SURFACED CEILING SPACE REQUIRE CONDUIT TO ACCESSIBLE CEILING AREA.
7.	ALL CABLING TO BE PERMANENTLY LABELED AT BOTH ENDS OF THE CABLE AND A LEGEND OF THE CABLE LABELS PROVIDED TO THE OWNER.
8.	DVR WILL BE IN THE CEFCO BACK OFFICE.
POINT OF ENTRY (POE)	
RUN THE HUGHES SATELLITE AND THE LOTTERY DISH THROUGH THE 2" POINT OF ENTRY (COMMUNICATIONS POE).	
INSTALL POINT OF ENTRY (POE) NEAR ROOF WALKING PATH.	
POINT OF SALES	
POS	POINT OF SALES
POS CMDT	POINT OF SALES - COM DATA
CS	REMOTE MONEY ORDER

LOW VOLTAGE EQUIPMENT NOTES

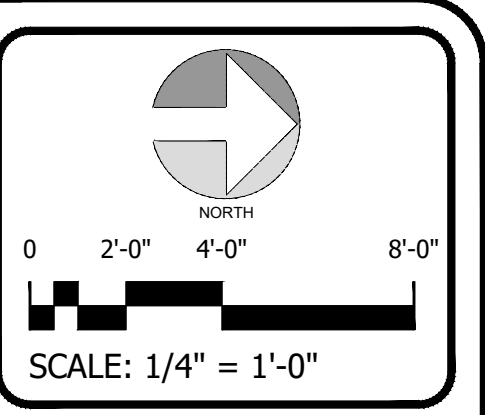
THE FOLLOWING EQUIPMENT TO BE PROVIDED BY LOW VOLT CONTRACTOR.

- ONE MODEL # 4 U 2 POLE RACK WITH 19" MOUNT DISTANCE, SECURED TO FLOOR. COLOR: BLACK
- FOUR VENTILATED 13" SHELVES - SINGLE SIDE MOUNT. COLOR: BLACK
- ONE RACK MOUNT SURGE PROTECTOR WITH MOUNTING HARDWARE. MINIMUM SIX OUTLETS - WITH MINIMUM 15 AMPS CAPACITY. COLOR: BLACK
- NE 48 PORT CAT5 PATCH PANEL. COLOR: BLACK

- FLOOR BOX COLOR: BRUSHED BRASS. OUTLET COVERS TO BE STAINLESS STEEL.



LOW VOLTAGE / CABLING PLAN SCALE 1/4"=1'-0" 1



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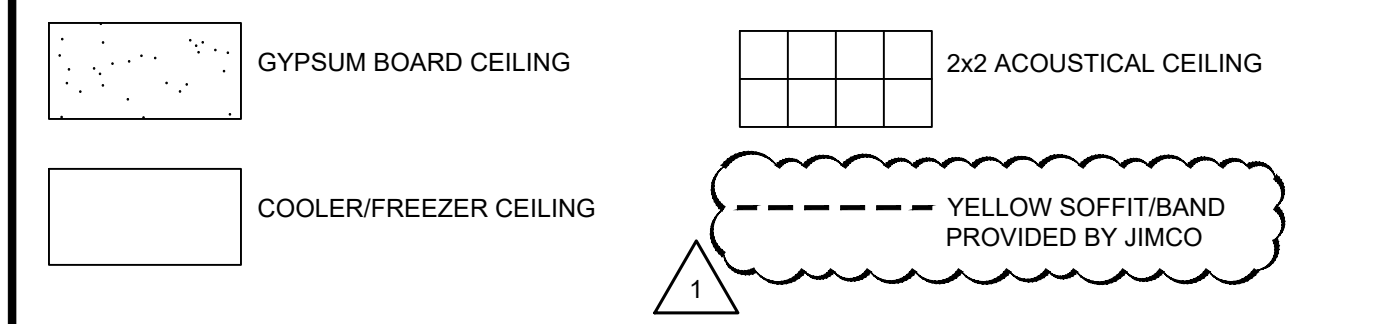
Sheet Title
LOW VOLTAGE CABLING PLAN

Project No. 170-95-00	Sheet
Drawn By: KM	A3.1
Checked By: AFO	

CEILING FINISH SCHEDULE

SYMBOL	DESCRIPTION
CT-1	ARMSTRONG 'CIRRUS SERIES' SUSPENDED ACOUSTICAL LAY-IN CEILING PANELS. 24 X 24 X 3/4 SQUARE CUT WITH WHITE FINISH 15/16 PRELUDE T-BAR GRID SYSTEM WITH WHITE FINISH
CT-2	ARMSTRONG 'CLEAN ROOM VL' VINYL SUSPENDED ACOUST. LAY-IN CEILING PANELS. 24 X 24 X 3/4 SQUARE CUT WITH WHITE FINISH 15/16 PRELUDE T-BAR GRID SYSTEM WITH WHITE FINISH
CT-3	5/8" FIRE RATED GYPSUM WALLBOARD CEILING SMOOTH FINISH COLOR: PURE WHITE SW 7005
CT-4	5/8" FIRE RATED GYPSUM WALLBOARD CEILING SMOOTH FINISH COLOR: WHITE
CT-5	INSULATED COOLER/FREEZER CEILING

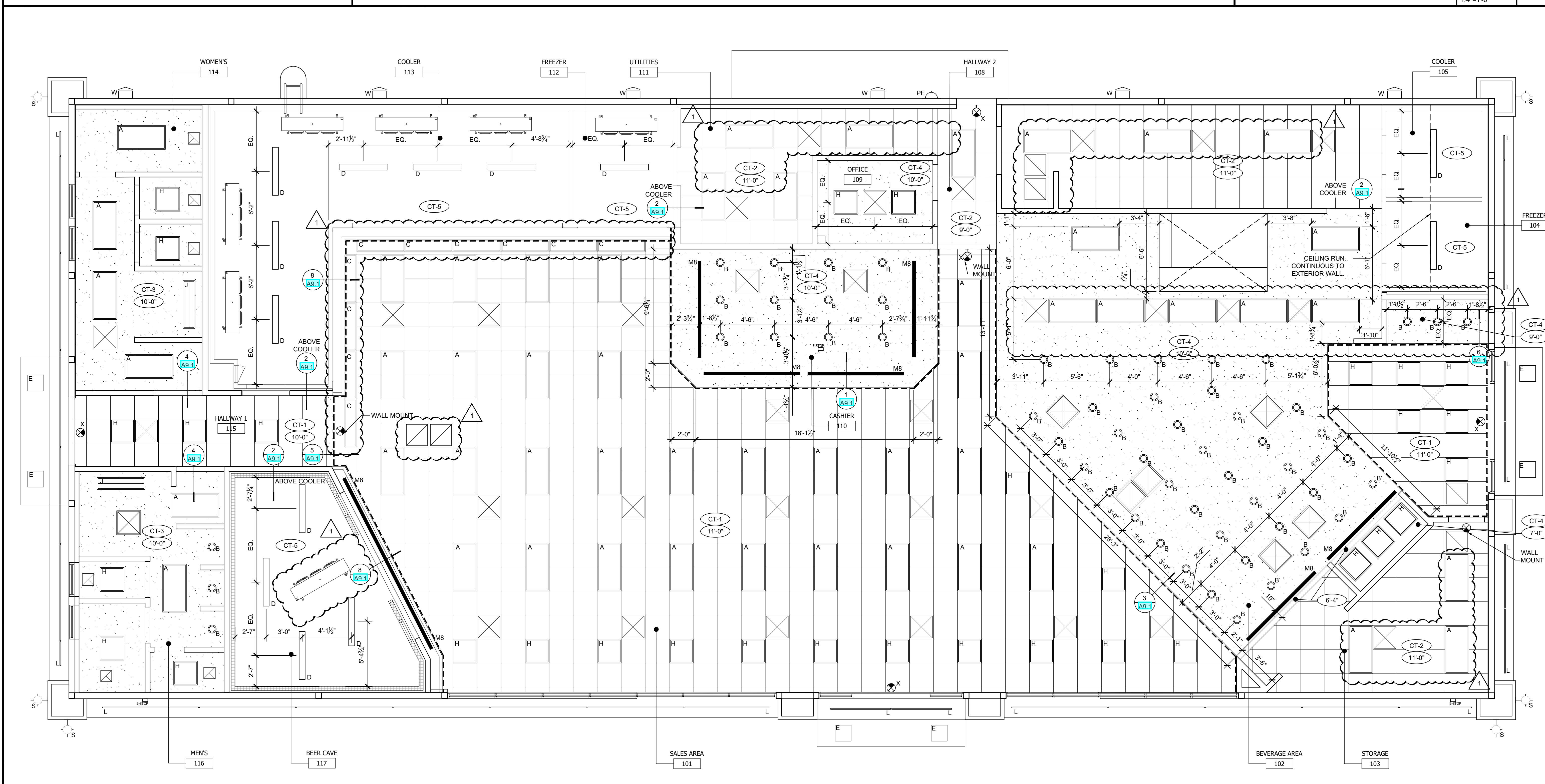
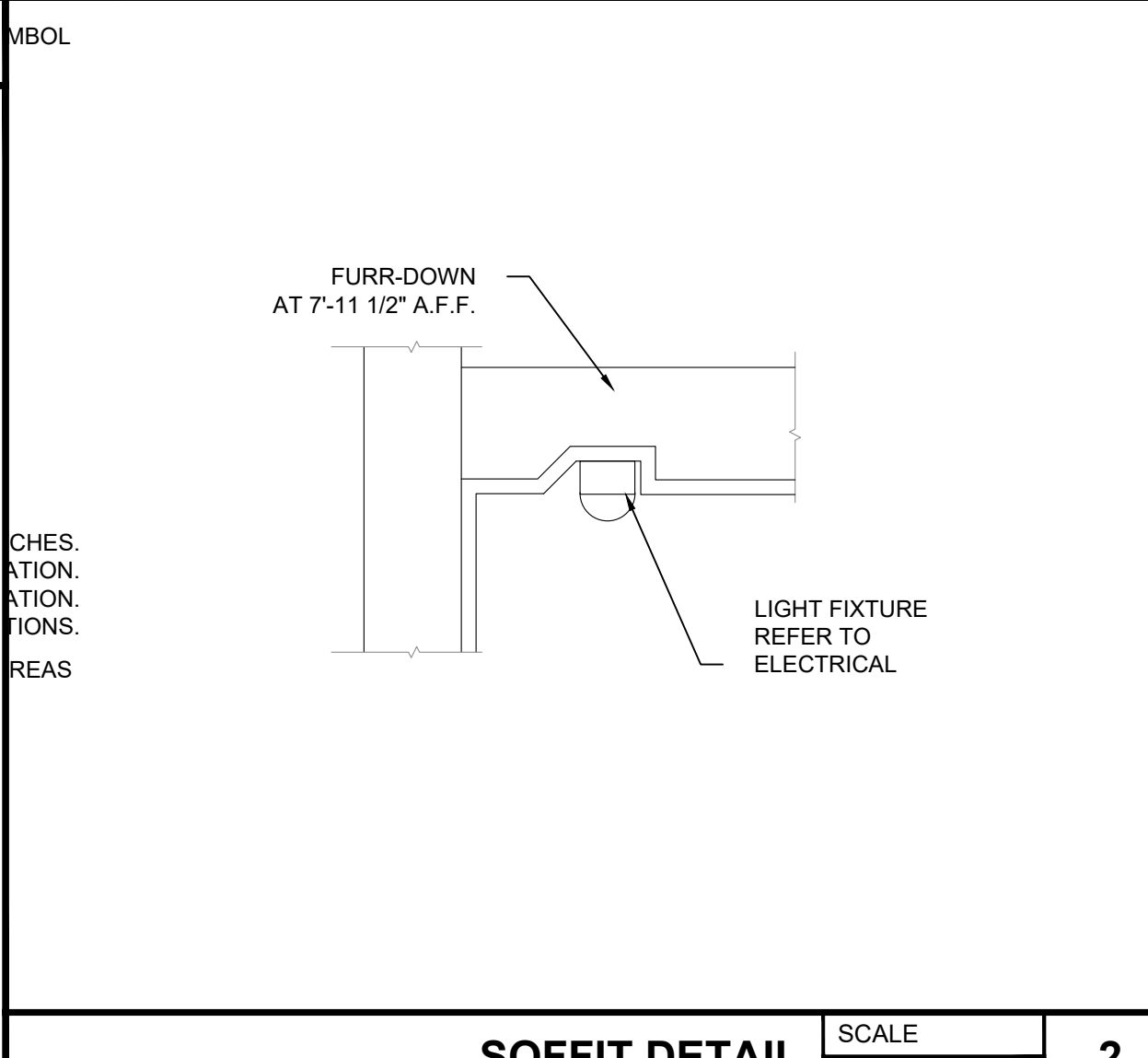
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS AND LOCATIONS OF SWITCHES.
- REFER TO SITE PLAN DRAWING FOR SITE LIGHTING INFORMATION.
- REFER TO CANOPY PLAN DRAWING FOR LIGHTING INFORMATION.
- REFER TO ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTING LOCATIONS.



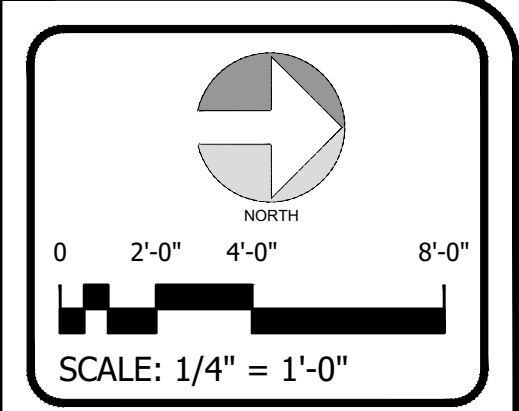
REFLECTED CEILING PLAN LEGEND

SYMBOL	ID	DESCRIPTION	QUANTITY
[Symbol]	A	2'-0" X 4'-0" LED ARCHITECTURAL TROFFER	
[Symbol]	B	6" DEEP RECESSED LED DOWNLIGHT	
[Symbol]	C	4'-0" LAY-IN FIXTURE (OUTSIDE COOLERS)	
[Symbol]	D	4'-0" WET LOCATION LINEAR (INSIDE COOLERS)	
[Symbol]	E	LED CANOPY LUMINAIRE	
[Symbol]	H	2'-0" X 2'-0" LED ARCHITECTURAL TROFFER	
[Symbol]	J	1'-0" X 4'-0" LED PANEL	
[Symbol]	K	NOT USED	

[Symbol]	L	QWIK STIK FLAT SERIES - VARIOUS LENGTHS. SEE ELECTRICAL FOR ADDITIONAL INFORMATION.
[Symbol]	M	M4: 4'-0" LED STRIP DIFFUSED LUMINAIRE M8: 8'-0" LED STRIP DIFFUSED LUMINAIRE
[Symbol]	PE	E-CONOLIGHT WALL SCONCE - WET LISTED NOTE: LOCATIONS NEAR DOORS TO HAVE BATTERY BACK-UP
[Symbol]	S	WALL SCONCE
[Symbol]	W	LED TRAPEZOID WALL PACK NOTE: LOCATIONS OVER DOORS TO HAVE BATTERY BACK-UP
[Symbol]	X	EMERGENCY EXIT SIGN: CEILING MOUNT U.N.O.
[Symbol]		EMERGENCY EXIT LIGHT
[Symbol]		EXHAUST FAN, REFER TO MECHANICAL



REFLECTED CEILING PLAN SCALE 1/4"=1'-0" **1**



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Sheet Title
REFLECTED CEILING PLAN

Project No. 170-95.00	Sheet
Drawn By: KM	A4.0
Checked By: AFO	

KEYED NOTES

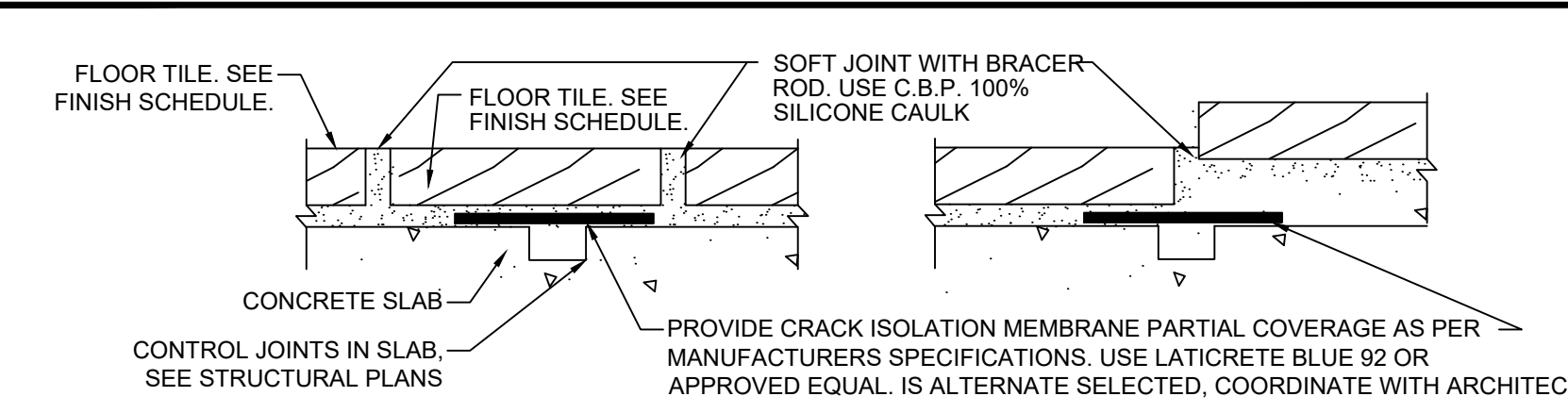
- 1 FLOOR DRAINS PROVIDED IN RESTROOMS, COORDINATE WITH PLUMBING DRAWINGS.
- 2 NO TILE REQUIRED, SEAL CONCRETE NON-SLIP FLOOR. CONTRACTOR TO ADD H&C SHARKGRIP TO COOLER AREAS.
- 3 INSTALL VINYL COVE BASE (VB1). SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.

KEYED LEGEND

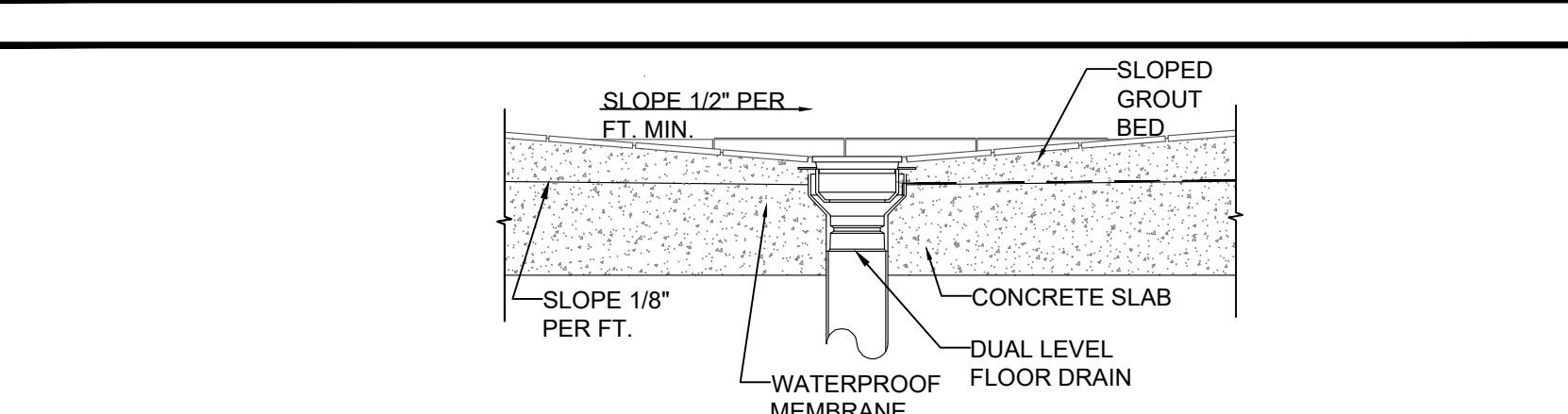
- FRP WALL
- STAINLESS STEEL WALL COVERING OVER FIRE RATED FRP

GENERAL NOTES

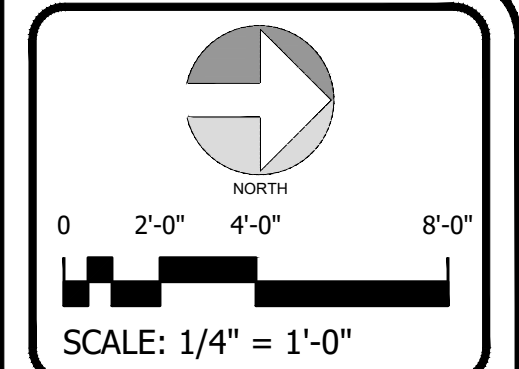
- 1. SEE REFLECTED CEILING PLAN FOR CEILING MATERIALS AND HEIGHTS.
- 2. SEE A-10.0 FOR ADDITIONAL FINISH INFORMATION.
- 3. SEE SHEET A-10.1 FOR FINISH LEGEND.
- 4. ALL CORNERS WITHOUT TILE TO RECEIVE RO100AE ALUMINUM CORNER GUARDS. VERIFY WITH OWNER.
- 5. ALL CORNERS WITH TILE TO RECEIVE CLEAR, PLASTIC CORNER GUARDS FROM TOP OF BASE COVE TO 36" AFF. VERIFY WITH OWNER.
- 6. COORDINATE FLOOR DRAINS WITH PLUMBING DRAWINGS.
- 7. SLANT BASE TILE IS TO BE USED IN ANY AREA WHERE FLOOR TILE ABUTS WALL TILE.
- 8. SCHLUTER DILEX IS TO BE USED AT ALL AREAS WHERE TILE IS SHOWN, EXCEPT WHERE MILLWORK IS LOCATED.
- 9. ALL MATERIALS AND FINISHES THAT COME INTO CONTACT WITH RAW OR PREPARED FOODS ARE TO MEET THE REQUIREMENTS OF THE US FOOD CODE WITH STATE OF ALABAMA AMENDMENTS.
- 10. 4" SCHLUTER RENO RAMP IS TO BE USED AT ALL TILE TRANSITIONS.
- 11. FIRE RATED FRP TO BE INSTALLED BEHIND KITCHEN HOOD, ELECTRICAL PANELS, AND ALL INTERIOR SIGNS.



TILE CRACK ISOLATION MEMBRANE SCALE 1/4"=1'-0" 3



FLOOR DRAIN TILE DETAIL SCALE 1/4"=1'-0" 2



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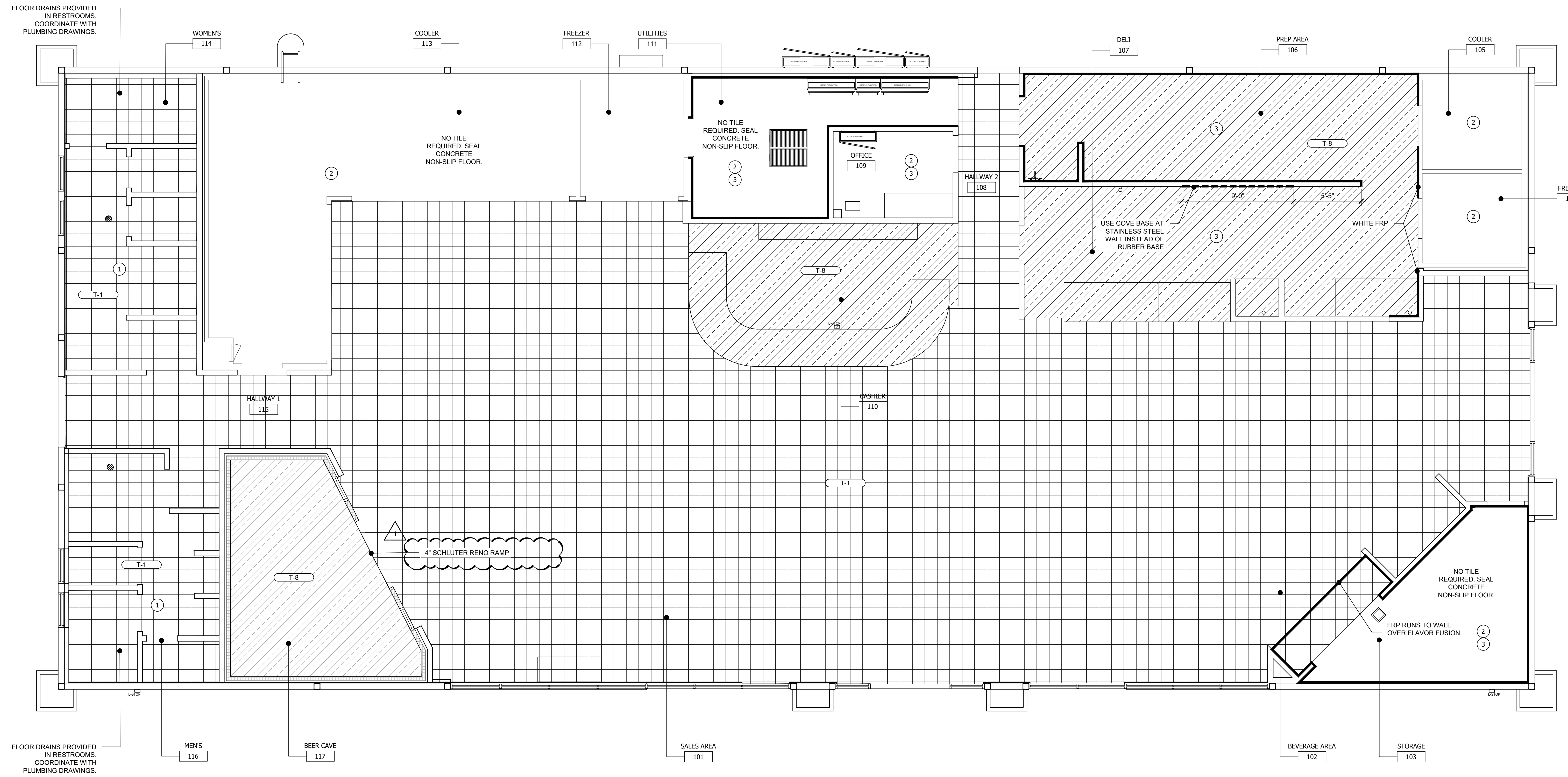
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CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
FINISH PLAN

Project No. 170-95.00
 Drawn By: KM
 Checked By: AFO

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A5.0



FINISH PLAN SCALE 1/4"=1'-0" 1

KEYED NOTES:

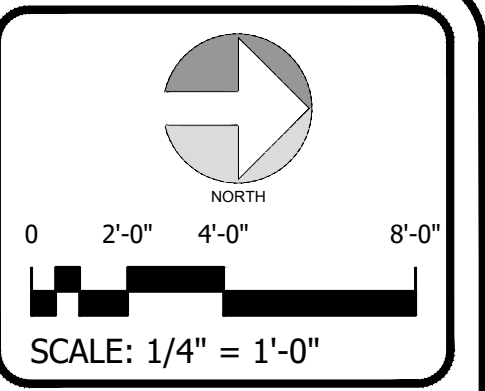
- 1 TPO FIRESTONE 60 MIL ROOFING SYSTEM OVER MINIMUM 5" FIRESTONE ISO 95+GL INSULATION ON 22 GAUGE METAL DECK.
- 2 PITCH PAN COORDINATE LOCATION WITH ELECTRICAL AND MECHANICAL CONTRACTOR. SEE DETAIL 3/A6.1 FOR MORE INFORMATION.
- 3 VENT THRU ROOF - PROVIDE PREFABRICATED DURO-LAST VENT FLASHING FOR ALL VENTS AND PIPE PENETRATIONS. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. SEE DETAIL 1/A6.1 FOR MORE INFORMATION.
- 4 5"x5" DOWNSPOUTS LOCATED AS SHOWN. TIE INTO STORM DRAINAGE PIPING UNDERGROUND. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION.
- 5 ROOF CRICKET WITH SLOPE EQUAL TO ROOF. SEE DETAIL 5/A6.1 FOR MORE INFORMATION.
- 6 MECHANICAL UNIT, REFER TO HVAC PLANS.
- 7 EXHAUST FAN, REFER TO HVAC PLANS.
- 8 CONDENSER UNITS, REFER TO MECHANICAL AND ELECTRICAL FOR SPECIFICATIONS.
- 9 X-TRED WALKWAY PAD, ITEM NUMBER W56TP0301X OR APPROVED EQUAL. VERIFY WITH OWNER. FURNISHED AND INSTALLED BY ROOFING SUBCONTRACTOR.
- 10 INSTALL CANDY CANE STYLE PENETRATIONS FOR ALL ROOFTOP EQUIPMENT.

GENERAL NOTES

1. THE ROOF STRUCTURE SHALL NOT BE USED FOR STOCKPILING OF EQUIPMENT OR MATERIALS UNLESS APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE JOIST MANUFACTURER.
2. THE ROOFING SYSTEM SHALL BE AS PER DRAWINGS AND PER CONSTRUCTION SPECIFICATIONS.
3. COORDINATE ROOF ELEVATIONS WITH STRUCTURAL DRAWINGS.
4. ROOF TOP UNITS: GENERAL CONTRACTOR TO INSTALL FLASHING AND COUNTER-FLASHING TO ROOFING MANUFACTURER SPECIFICATIONS.
5. PRESSURE WASH ROOF PRIOR TO COMPLETION OF THE STORE.
6. CONTRACTOR TO INSTALL OVERFLOW SENSORS TO ALL ROOF TOP RTU UNITS.
7. CONTRACTOR TO INSTALL TWO (2) LAYERS OF THREE (3) INCH ISO INSULATION STAGGERED OVER 1 3/4" METAL DECKING. THESE CREATE 17.4 X 2 = 34.8 LETTR R VALUE. THE INSULATION IS TO BE INSTALLED FULLY ADHERED USING GY-BOND 500 SPOT SHOT BY GAF. TPO 60 MIL WHITE IS FULLY ADHERED TO THE ISO INSULATION USING TPO BONDING ADHESIVE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. ALL VERTICAL PARAPET WALLS SHALL HAVE 60 MIL WHITE TPO MATERIALS INCLUDING PARAPET CAP.
8. WHERE THE PARAPET IS NOT 42 INCHES IN HEIGHT AND EQUIPMENT IS LOCATED WITHIN 10 FEET OF THE ROOF EDGE, A GUARD SHALL BE REQUIRED TO BE PLACED TO PROTECT SERVICE PERSONNEL. GUARD SHALL NOT ALLOW THE PASSAGE OF A 21-INCH SPHERE AND SHALL EXTEND 30 INCHES BEYOND EACH END OF EQUIPMENT REQUIRING SERVICE. (PER FBC-MECH 304.11)

PLAN SYMBOLS

- REVISION NUMBER
- KEYNOTE
- EQUIPMENT TAG - REFER TO PAGE A3.0
- DETAIL TAG
- PLAN DETAIL
- ELEVATION DATUM TAG



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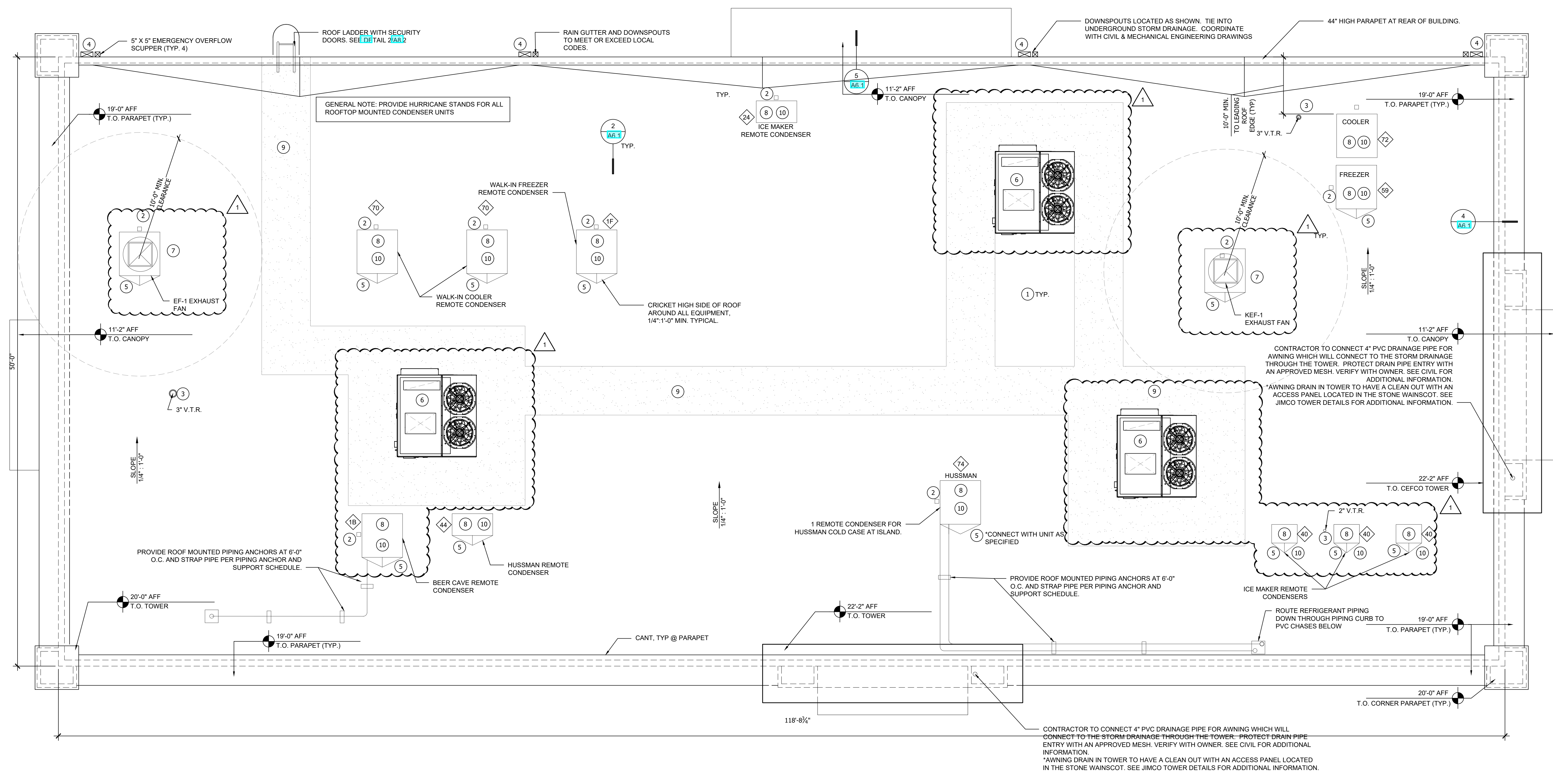
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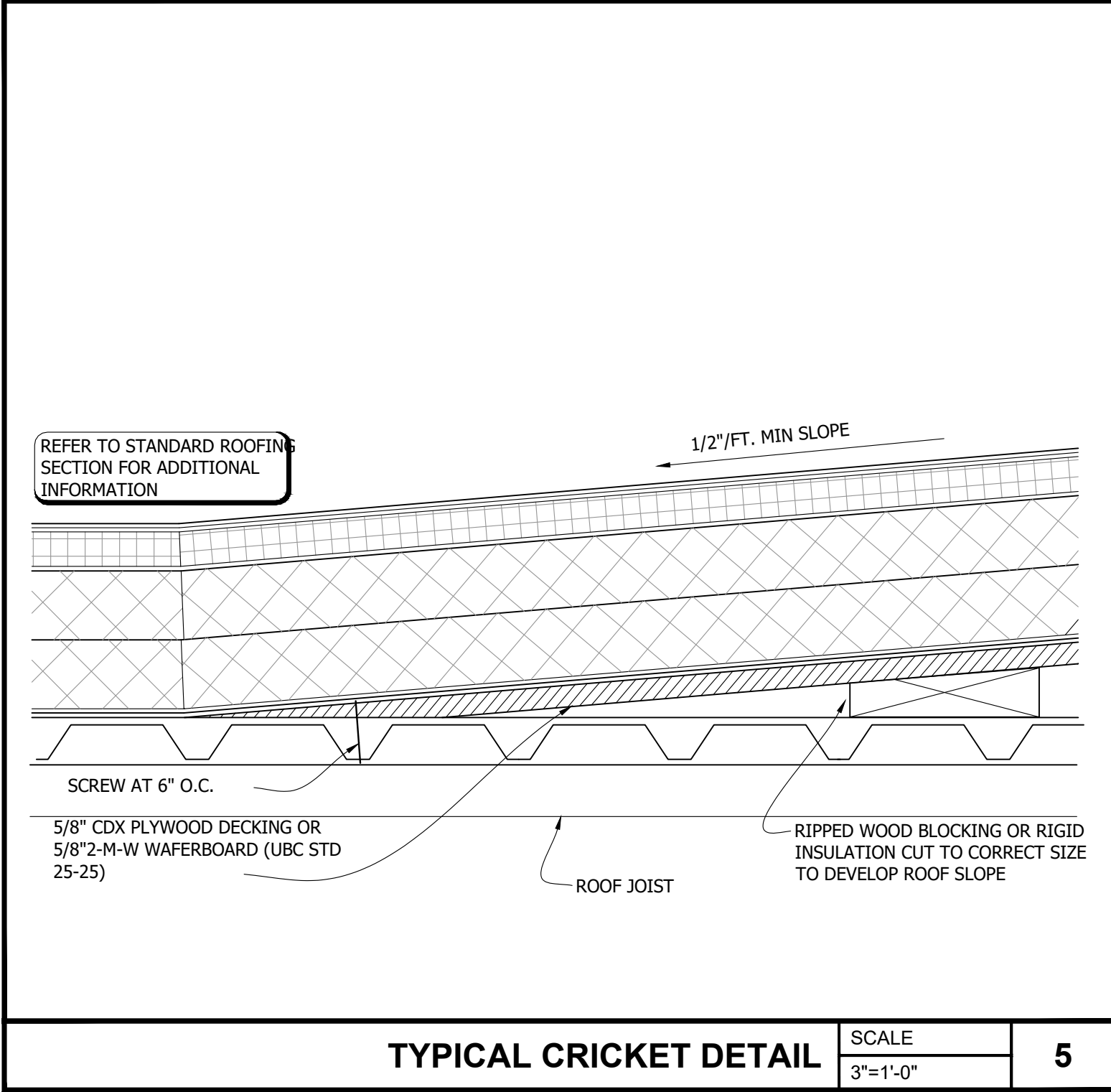
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Sheet Title
ROOF PLAN

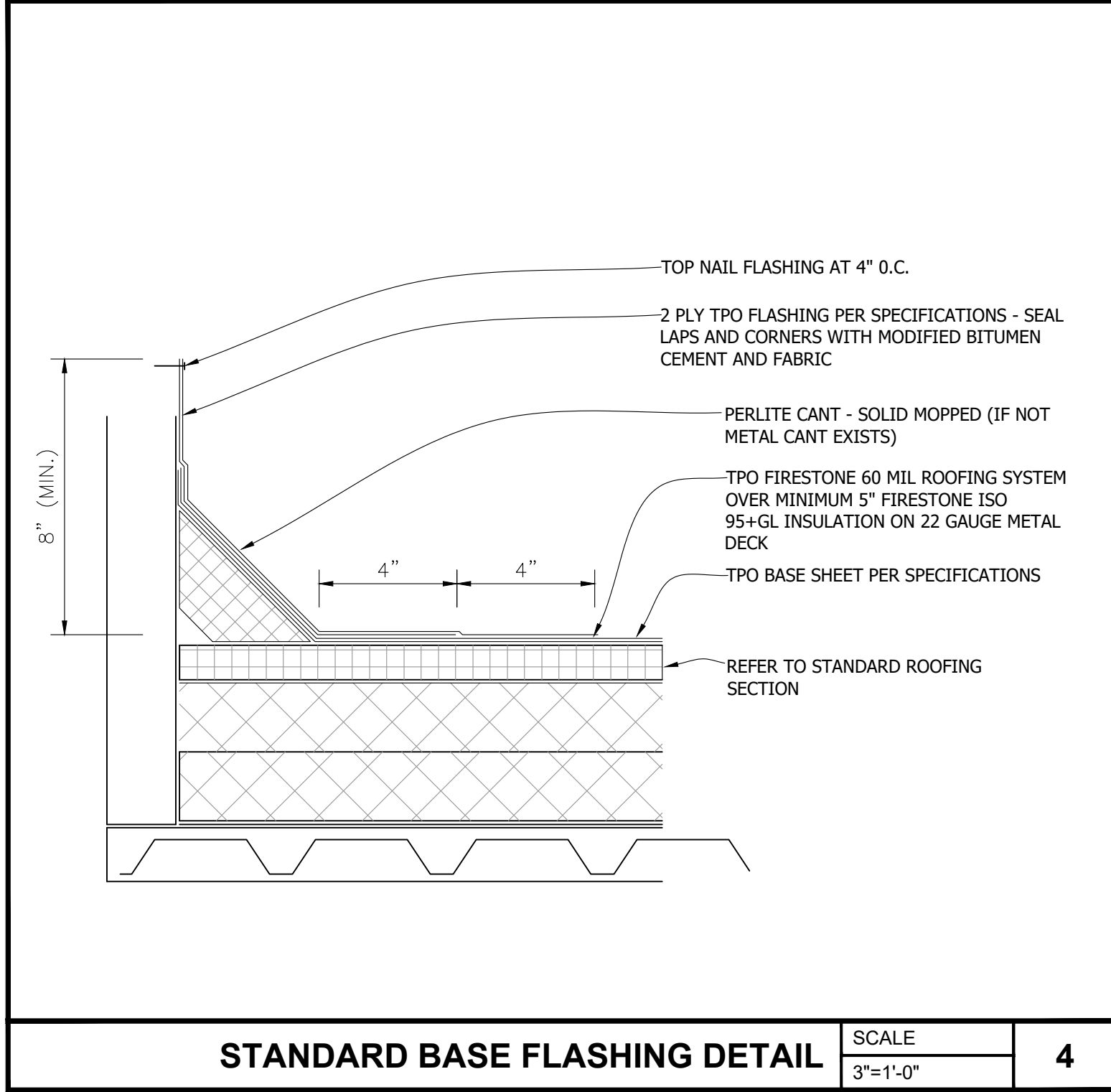
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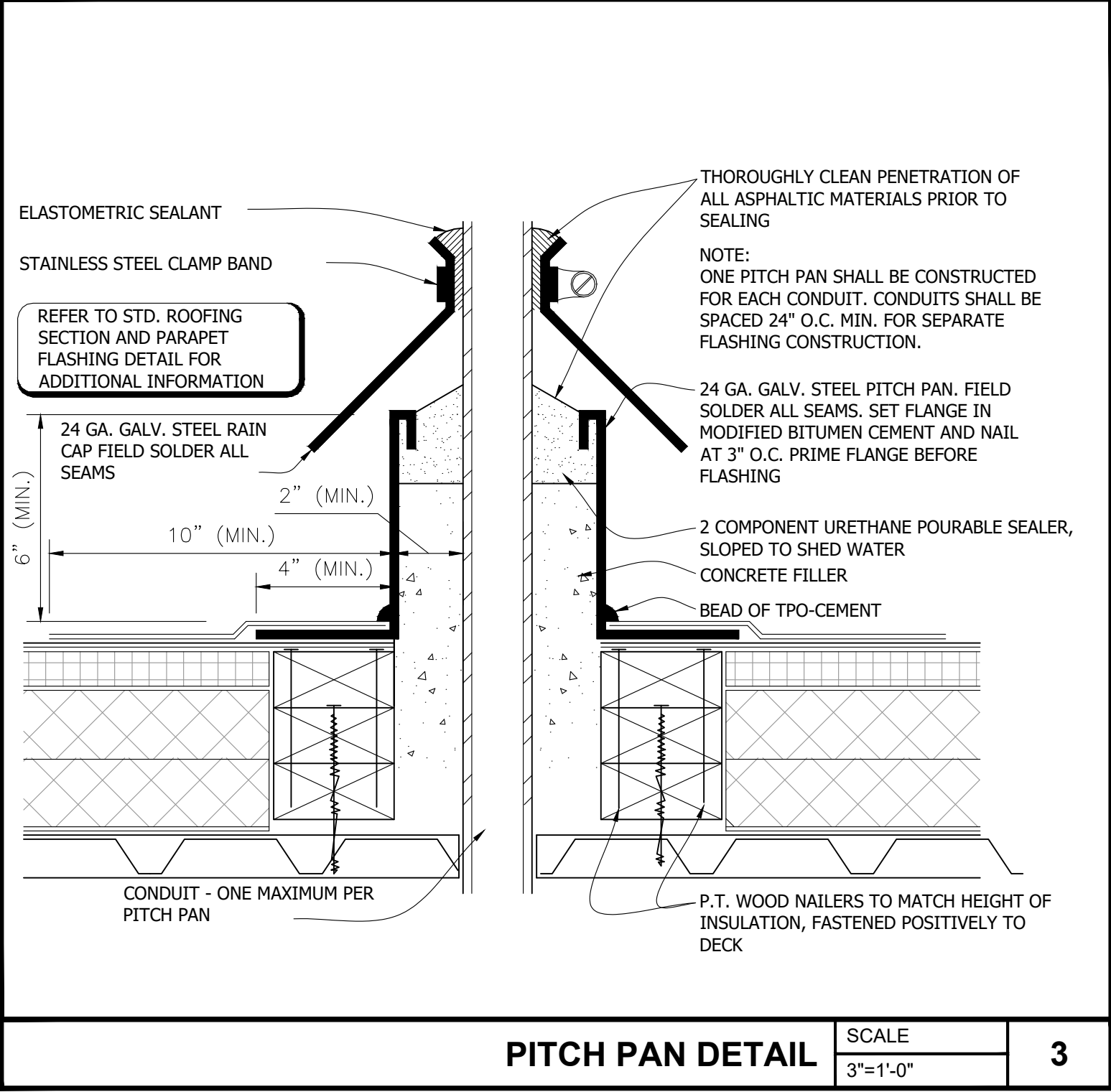




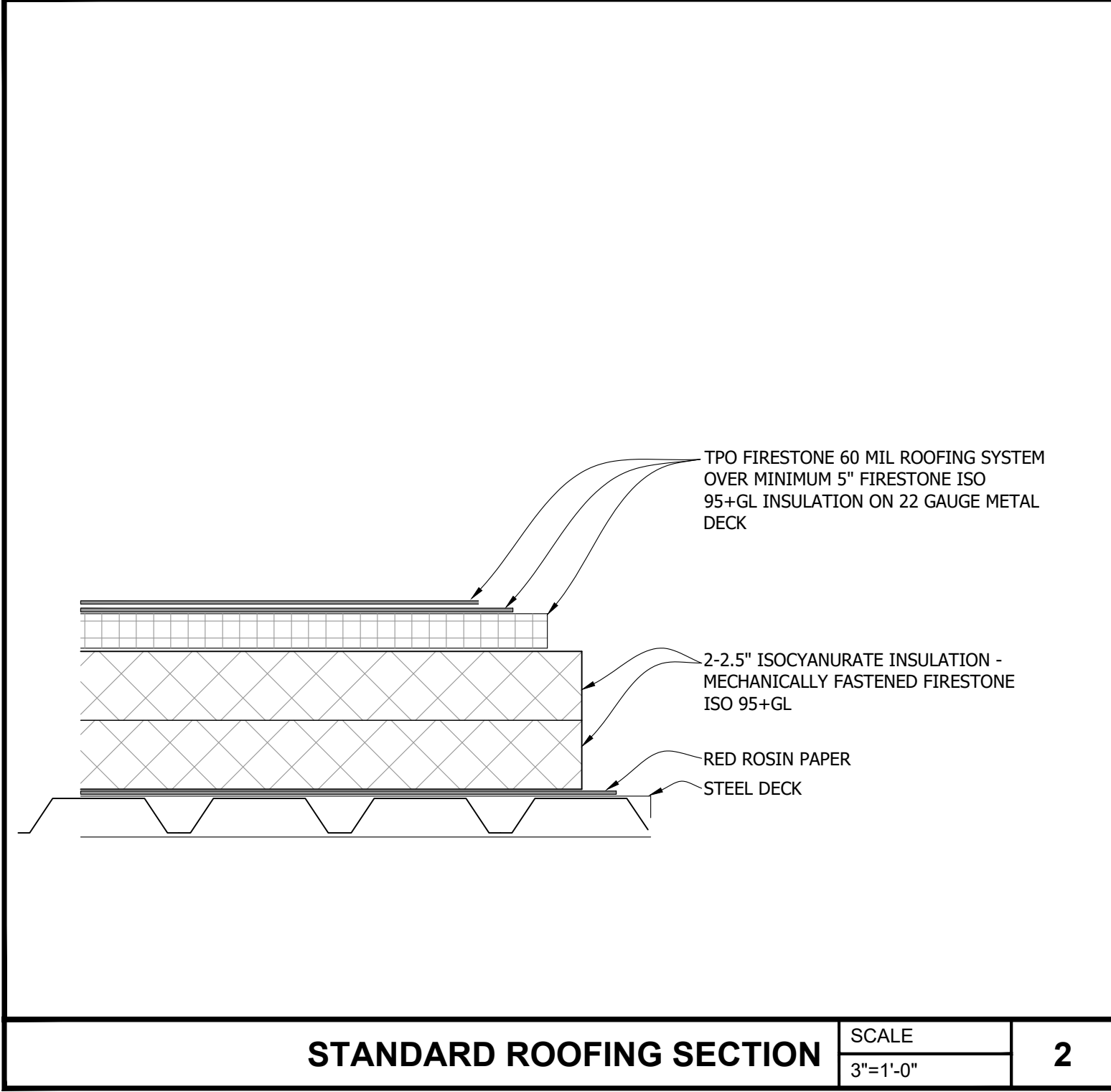
TYPICAL CRICKET DETAIL SCALE 3"=1'-0" **5**



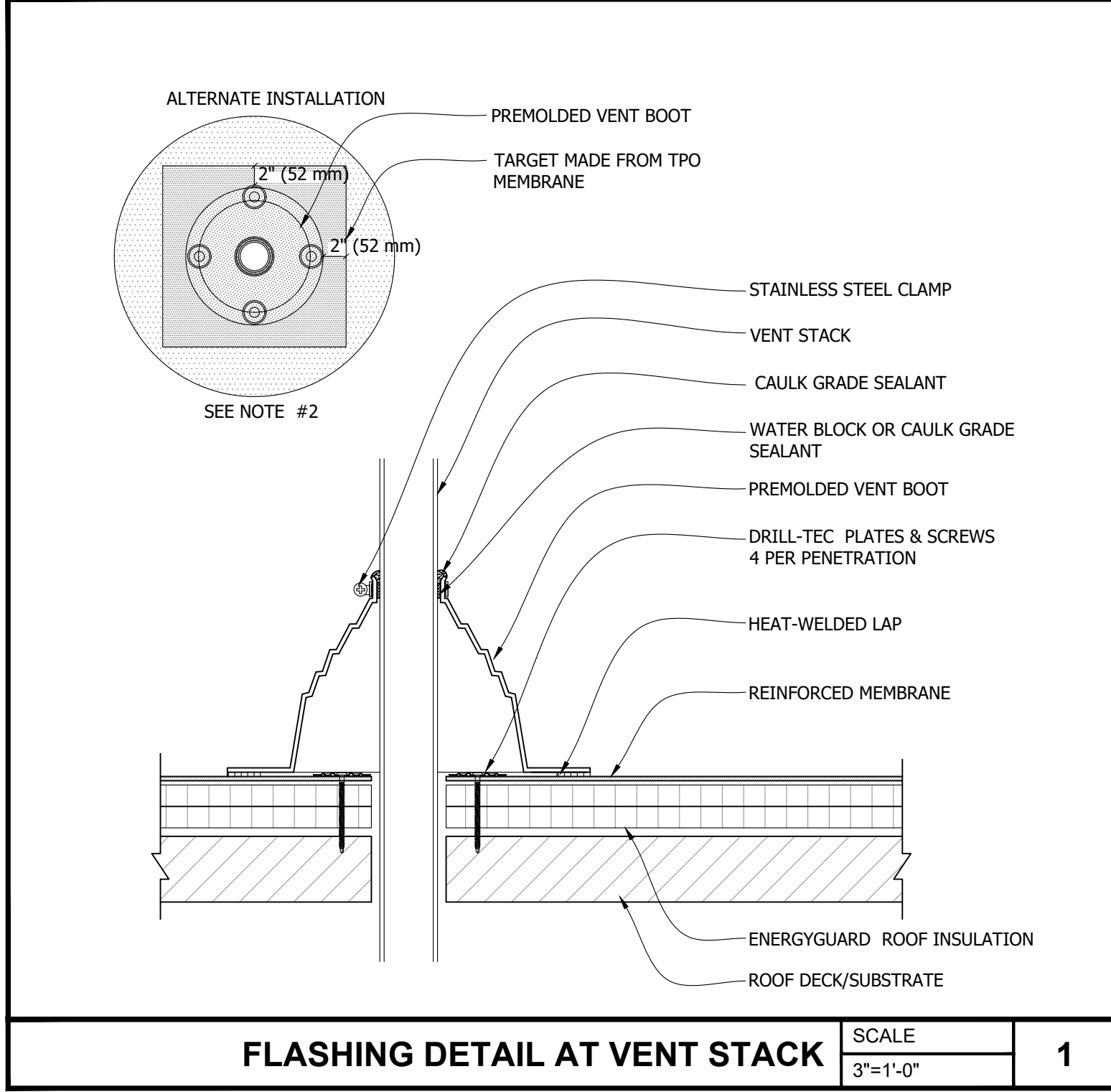
STANDARD BASE FLASHING DETAIL SCALE 3"=1'-0" **4**



PITCH PAN DETAIL SCALE 3"=1'-0" **3**



STANDARD ROOFING SECTION SCALE 3"=1'-0" **2**



FLASHING DETAIL AT VENT STACK SCALE 3"=1'-0" **1**

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Sheet Title
ROOF DETAILS

Project No.
 170-95.00

Scale
 3"=1'-0"

Drawn By
 KM

Checked By
 AFO

Sheet No.
A6.1

EXTERIOR FINISH SCHEDULE

EXTERIOR BUILDING SPECIFICATIONS

- 1 CREATIVE FAUX STONE AS PER OWNER'S SPECIFICATIONS.
 - 2 7/8" 3 - COAT CEMENT PLASTER CONTINUOUS INSULATED STUCCO SYSTEM ON METAL LATH. APPROVED STUCCO SYSTEMS:
-SENERGY PLATINUM CI STUCCO
-PARFX ARMOURWALL 300 STUCCO ASSEMBLY
-STO POWERWALL CI STUCCO SYSTEM
COLOR: SHERWIN WILLIAMS SW6112 BISCUIT.
 - 3 PREFABRICATED CEFCO TOWER FW-2805 #28 BY JIMCO. GENERAL CONTRACTOR TO PROVIDE AND COORDINATE INSTALLATION.
 - 4 METAL PANEL 26 GAUGE R-PANEL. PAINT SHERWIN WILLIAMS SW6112 BISCUIT.
- MANSARD ROOF SPECIFICATIONS**
- 5 36" / 56" FASCIA SYSTEM RED ACM FP-1
7" FASCIA SYSTEM YELLOW ACM FP-2.
- DOORS AND FRAMES**
- 6 PAINT TO MATCH BUILDING, SHERWIN WILLIAMS SW6112 BISCUIT.

FLASHING SPECIFICATIONS

- 7 DURO-LAST VINYL COATED METAL COPING, COLOR SW6112 BISCUIT. FROM DURO-LAST INC. 800-248-0280.
- 8 COLLECTOR BOXES AND DOWNSPOUTS - BOTTOM 42" PAINT SW6115 TOTALLY TAN. TO MEET OR EXCEED ALL LOCAL, STATE AND FEDERAL CODES.
- 9 COLLECTOR BOXES AND DOWNSPOUTS - ABOVE 42". PAINT SW6112 BISCUIT. TO MEET OR EXCEED ALL LOCAL, STATE AND FEDERAL CODES.

STOREFRONT SYSTEM SPECIFICATIONS

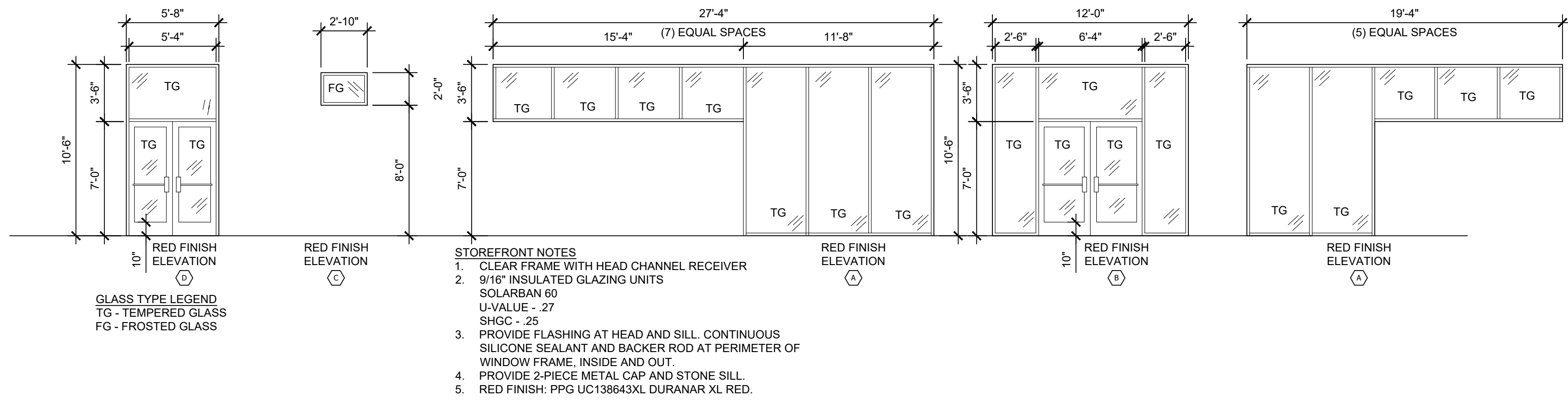
- 10 ALUMINUM STOREFRONT FRAMING SYSTEM SIMILAR TO KAWNEER 'FA-SET S.S.G.' WITH CLEAR GLAZING. 1" INSULATED GLAZING UNITS W/ LOW-E COATING. FRAME COLOR: PG UC138643XL DURANAR XL RED.

BUILDING SIGNAGE

- 11 INTERNALLY ILLUMINATED CAN SIGN WITH CEFCO LOGO.
- 12 ACCESS LADDER SW6112 BISCUIT.
- 13 PRE-FAB AWNING COLOR TO BE CHOSEN BY OWNER.
- 14 CORNICE TRIM COLOR TO BE CHOSEN BY OWNER.
- 15 SIGNAGE PROVIDED BY OTHERS.
- 16 ADDRESS NUMBERS IN COMPLIANCE WITH NFPA 1, 2018 EDITION WILL BE PROVIDED BY OWNER, LOCATED ABOVE ENTRY DOORS.

GENERAL NOTES

1. GENERAL CONTRACTOR TO VERIFY ALL FINISHES WITH OWNER PRIOR TO CONSTRUCTION
2. PRODUCT SUPPLIER TO SUBMIT COLOR / MATERIAL SAMPLES OF ALL MATERIALS TO OWNER



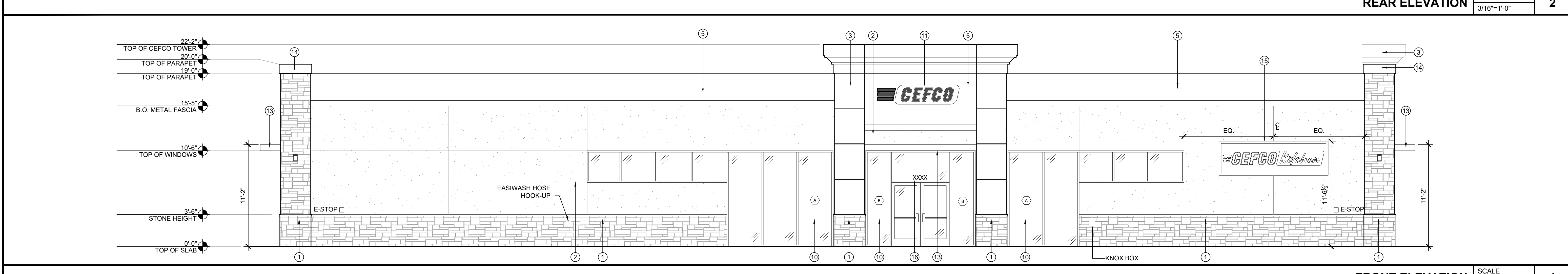
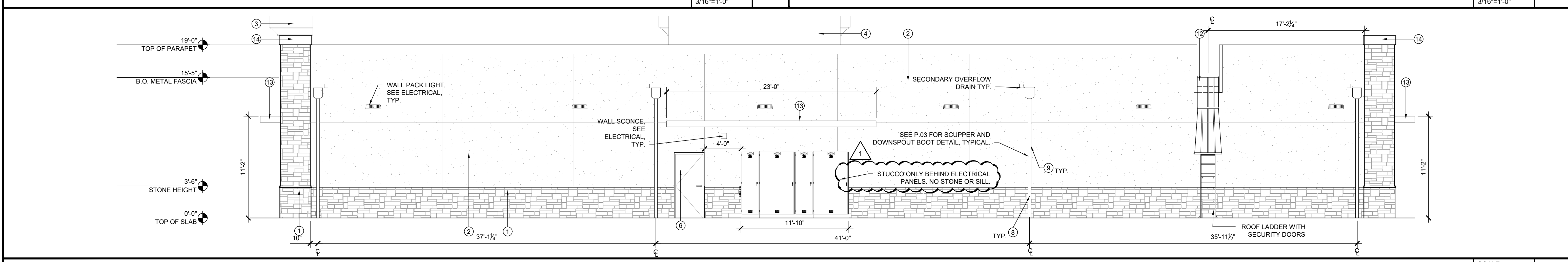
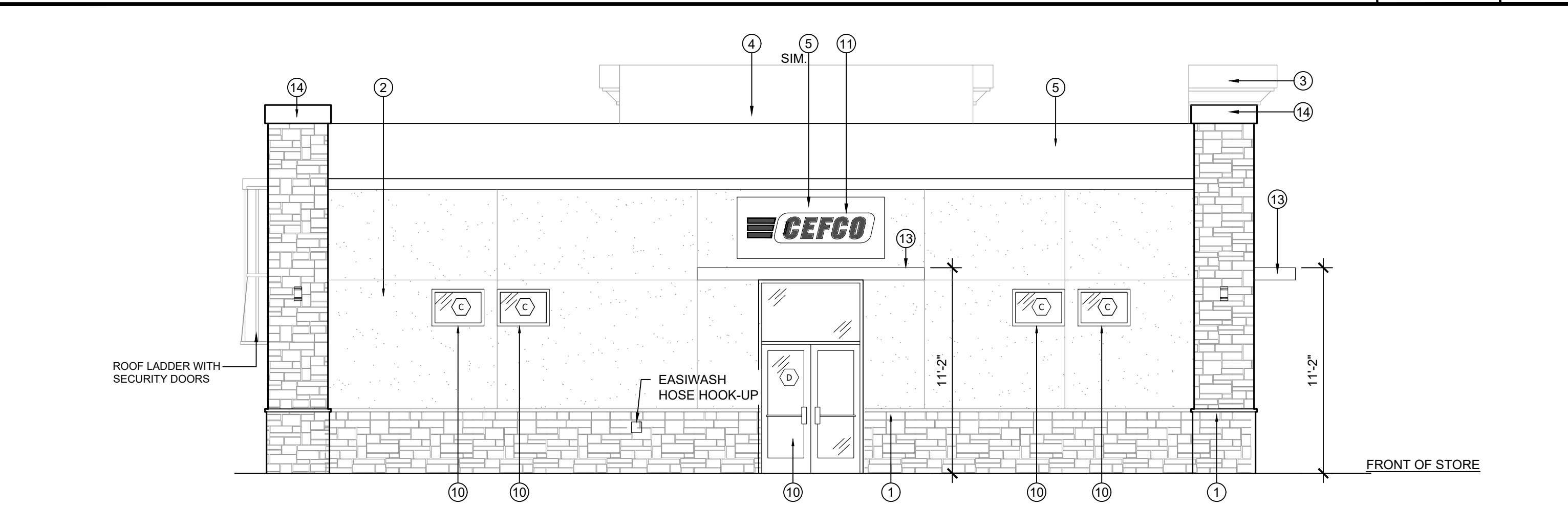
STOREFRONT ELEVATION AND LEGEND

SCALE
3/16"=1'-0"

5

0 4' 8'	
SCALE: 3/16" = 1'-0"	
03/12/23	Date
ISSUE FOR PERMIT	Revision/Issue
1	No.

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NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Project No.
170-95.00

Date
AS NOTED

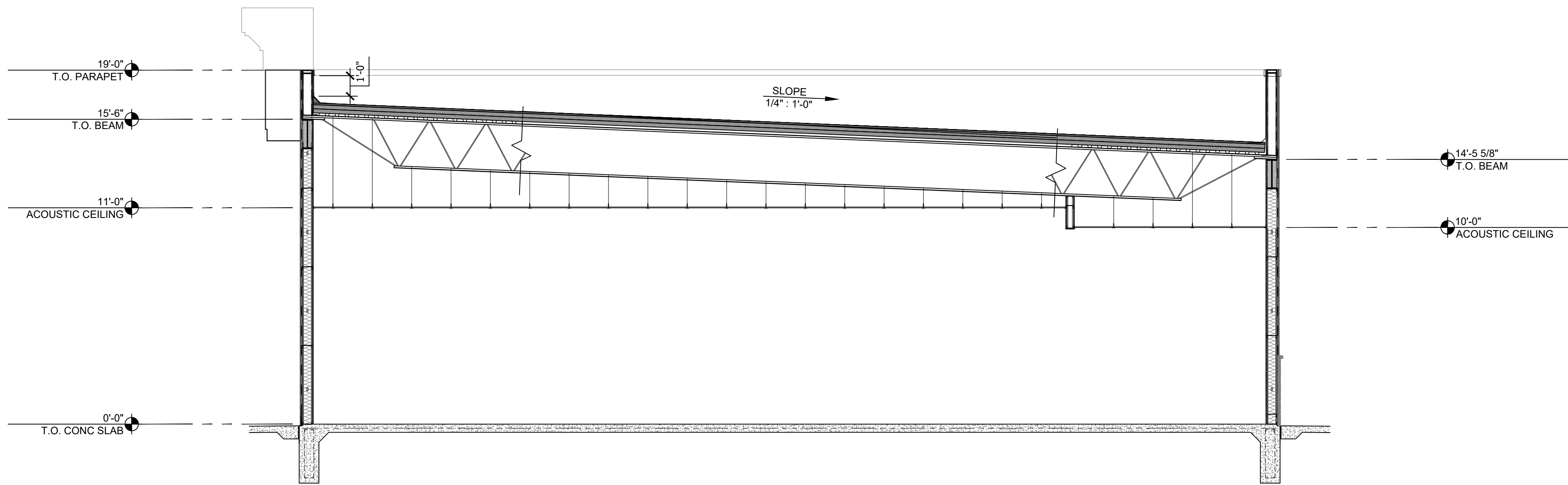
Scale
AS NOTED

Sheet
A7.0

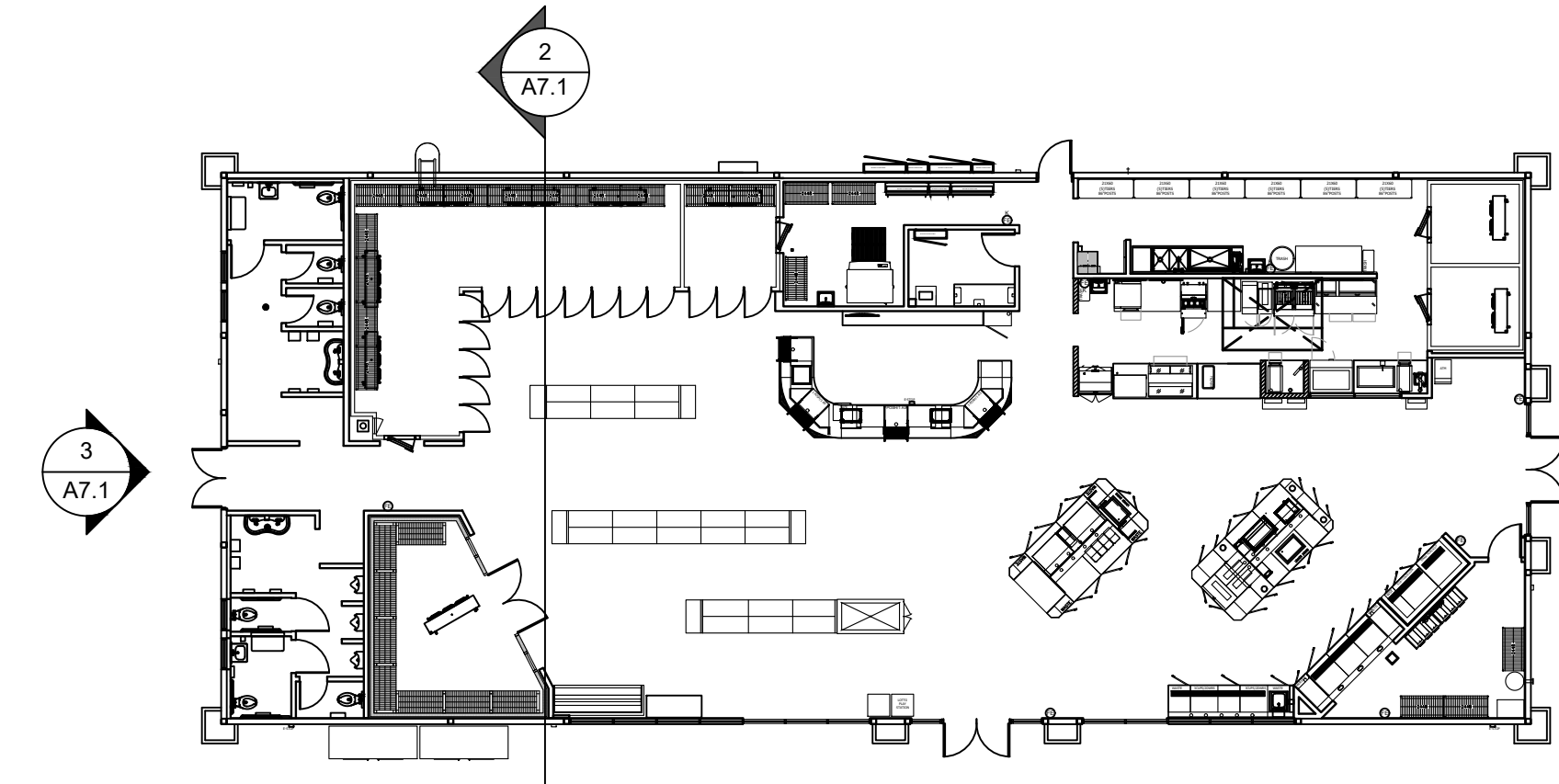
Sheet Title
EXTERIOR ELEVATIONS



REFERENCE ELEVATION SCALE 1/4"=1'-0" **3**



BUILDING SECTION SCALE 1/4"=1'-0" **2**



REFERENCE PLAN SCALE 1/16"=1'-0" **1**

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2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/31/2023

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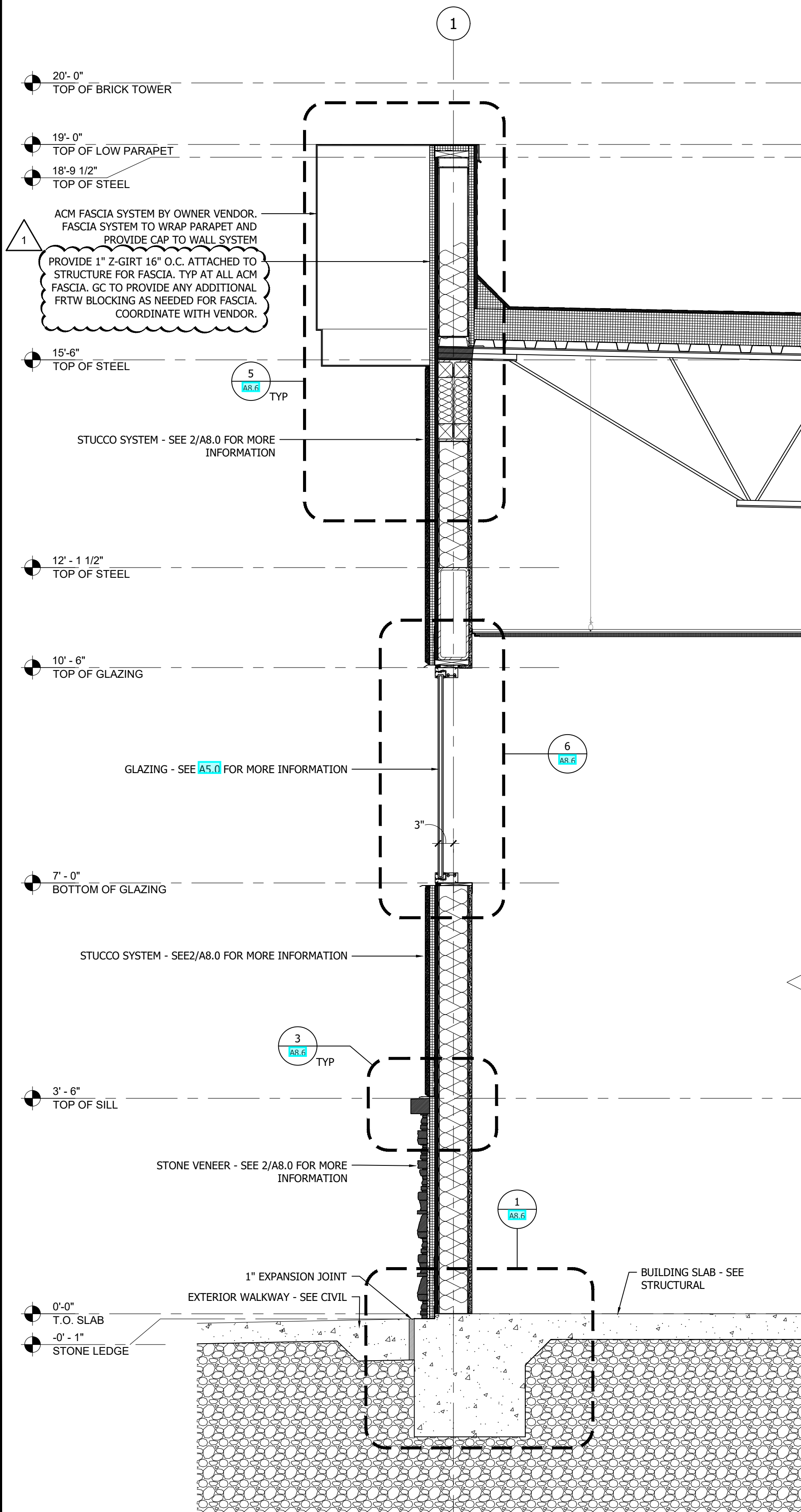
Date _____

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
BUILDING SECTION

Project No. 170-95.00 Sheet
Drawn By: KM
Checked By: AFO

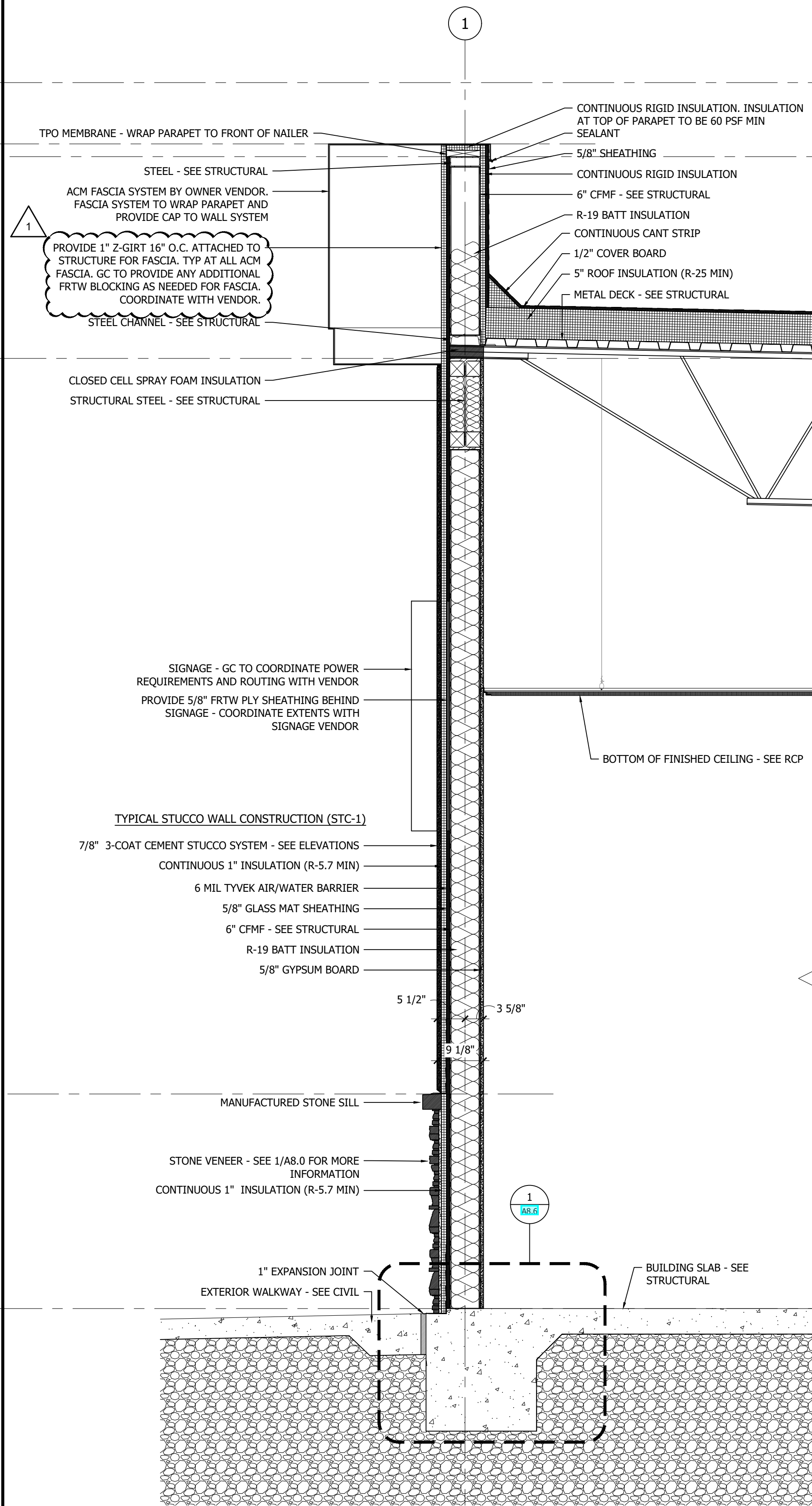
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WALL SECTION

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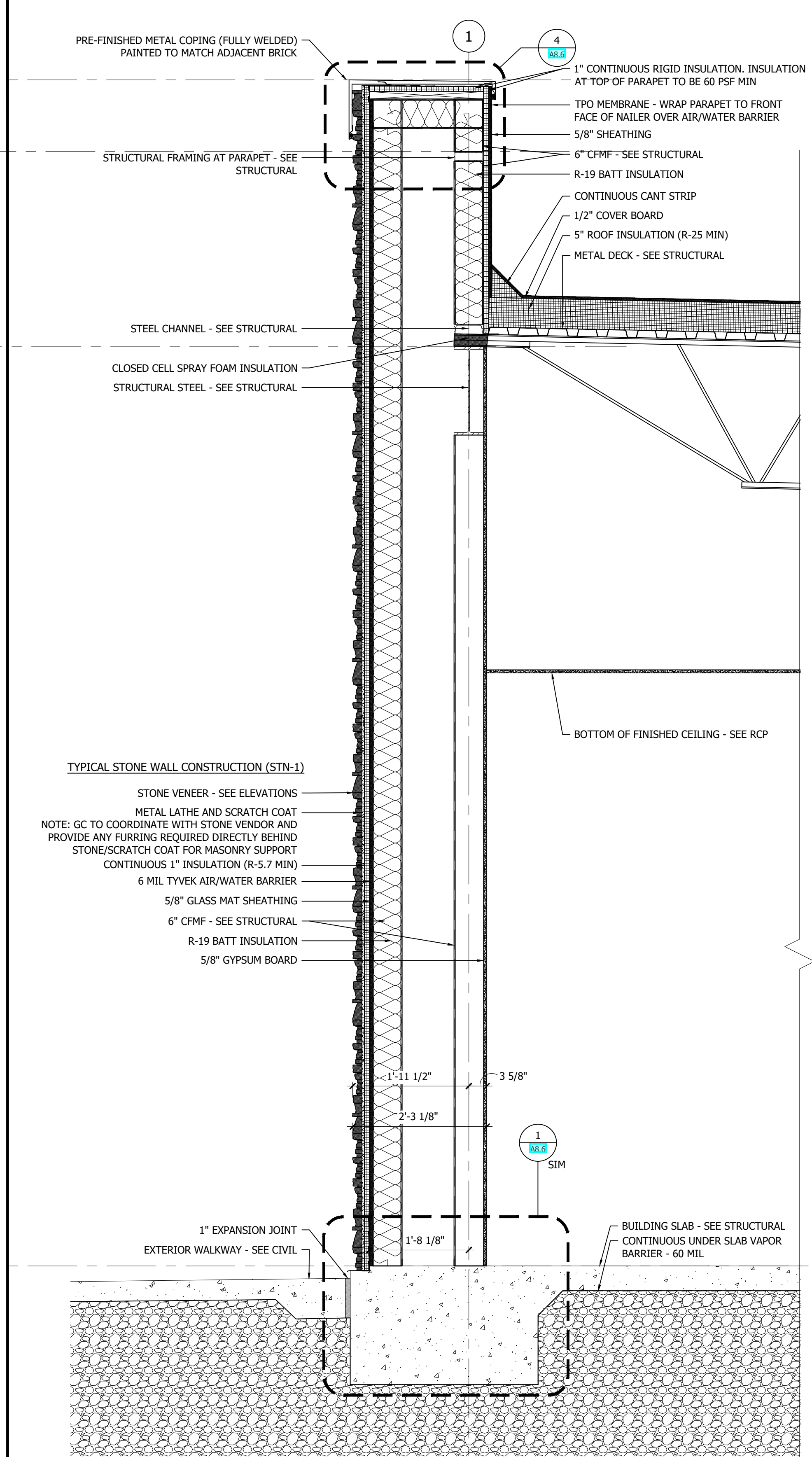
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WALL SECTION

SCALE
3/4"=1'-0"

2



WALL SECTION

SCALE
3/4"=1'-0"

1

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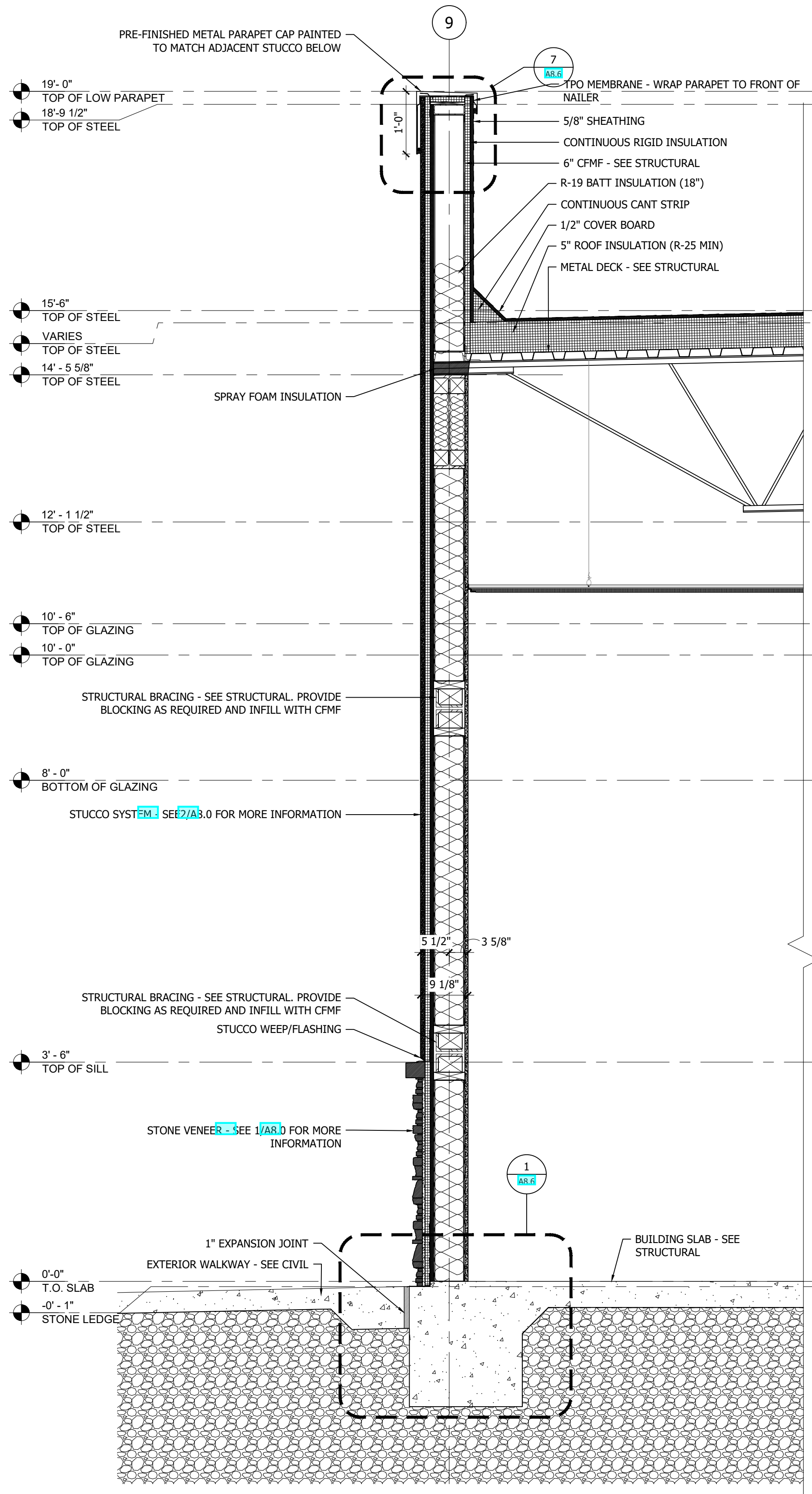
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WALL SECTIONS

Project No.
170-95.00

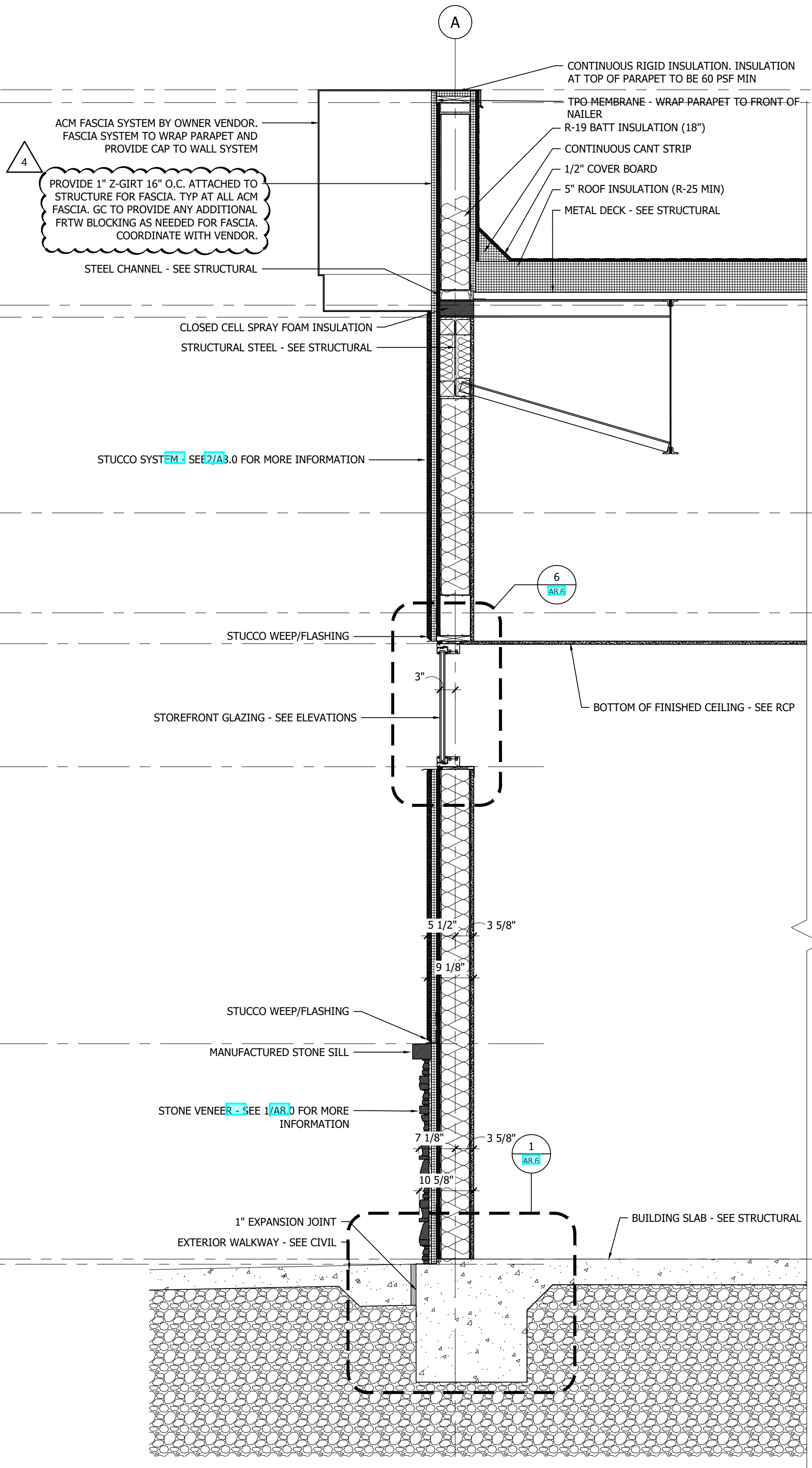
Drawn By
KM

Checked By
AFO

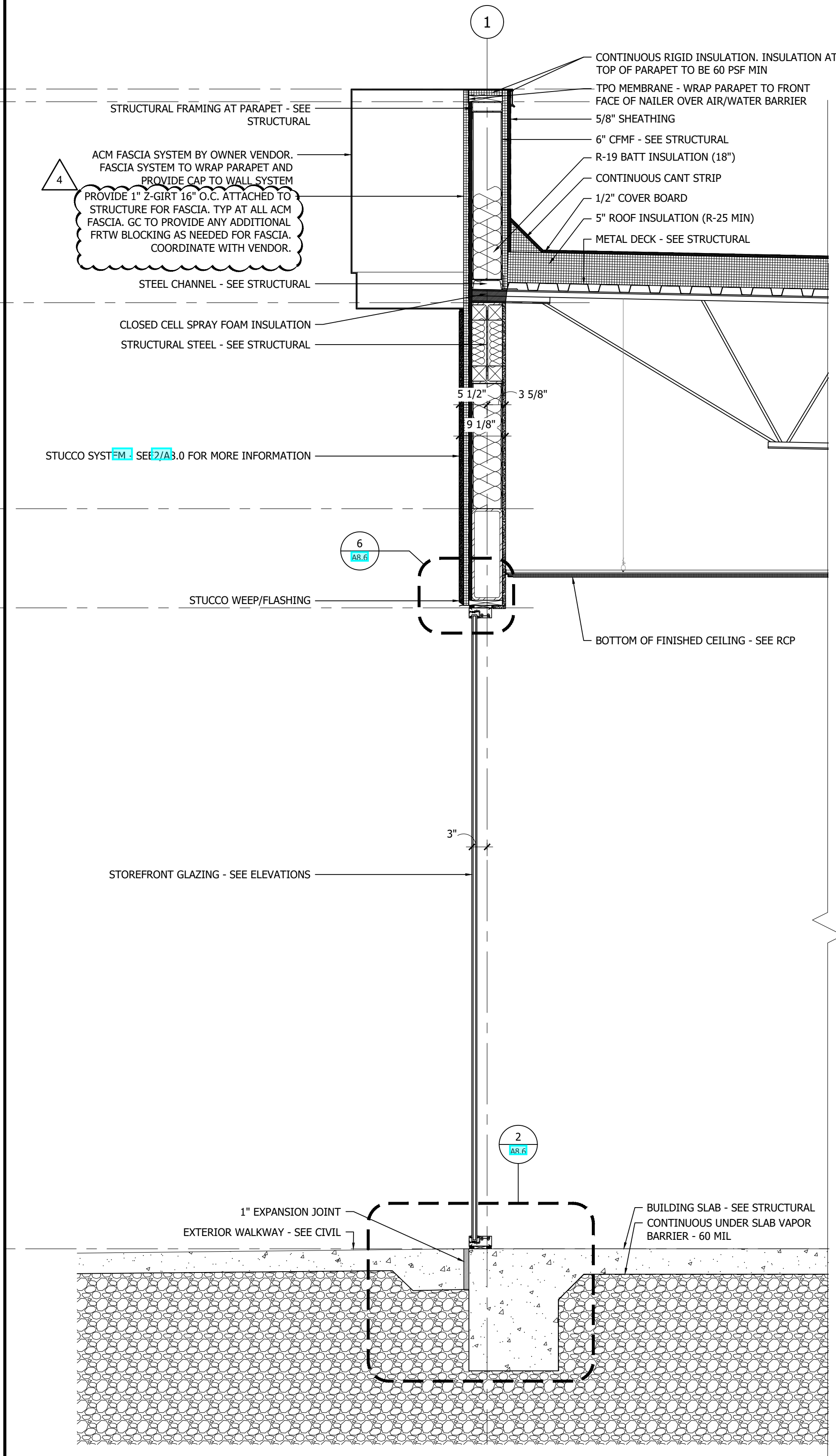
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WALL SECTION 3
SCALE 3/4"=1'-0"



WALL SECTION 2
SCALE 3/4"=1'-0"



WALL SECTION 1
SCALE 3/4"=1'-0"

No.	Revision/Issue	Date
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2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024

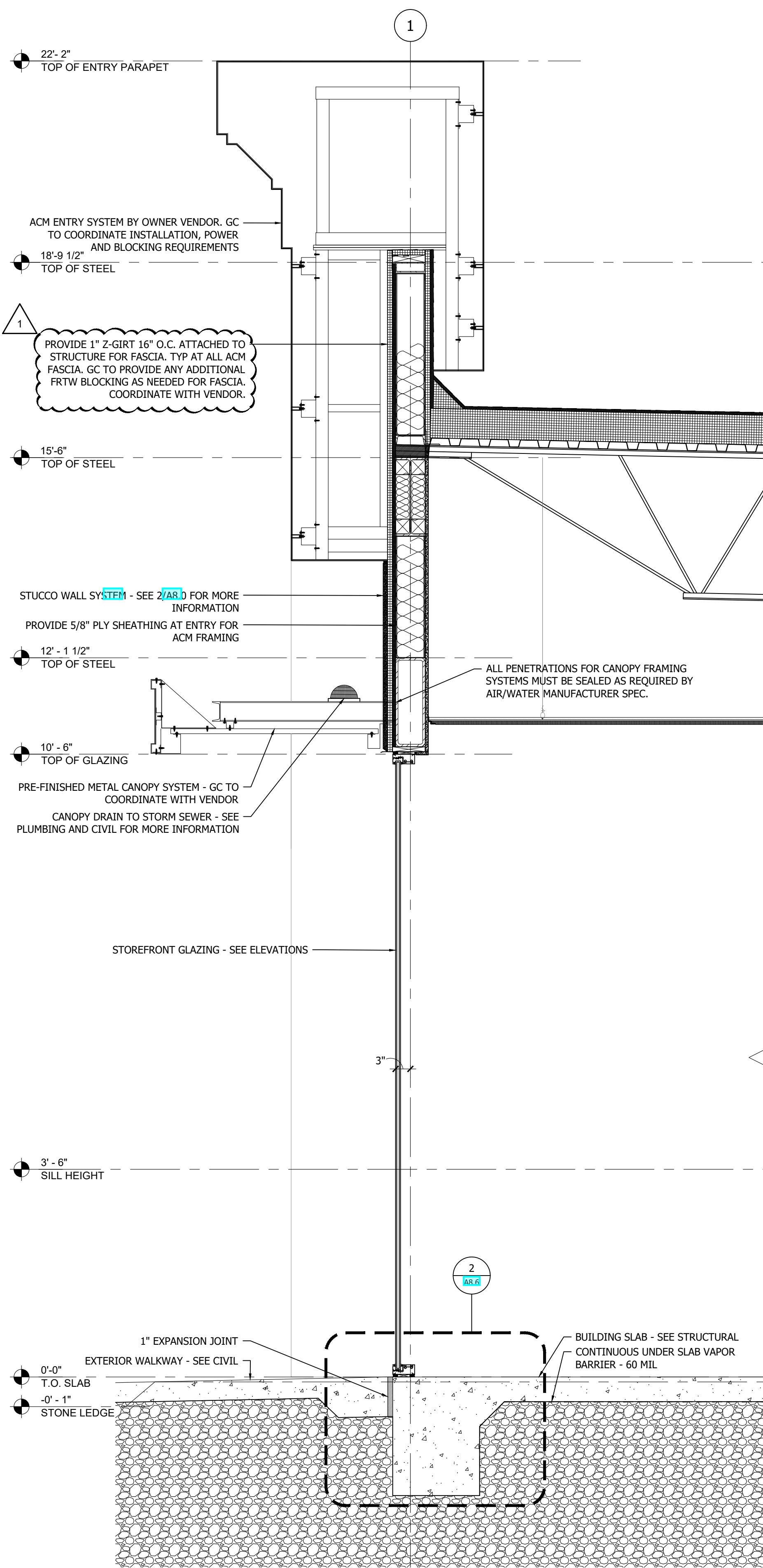
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Sheet Title
WALL SECTIONS

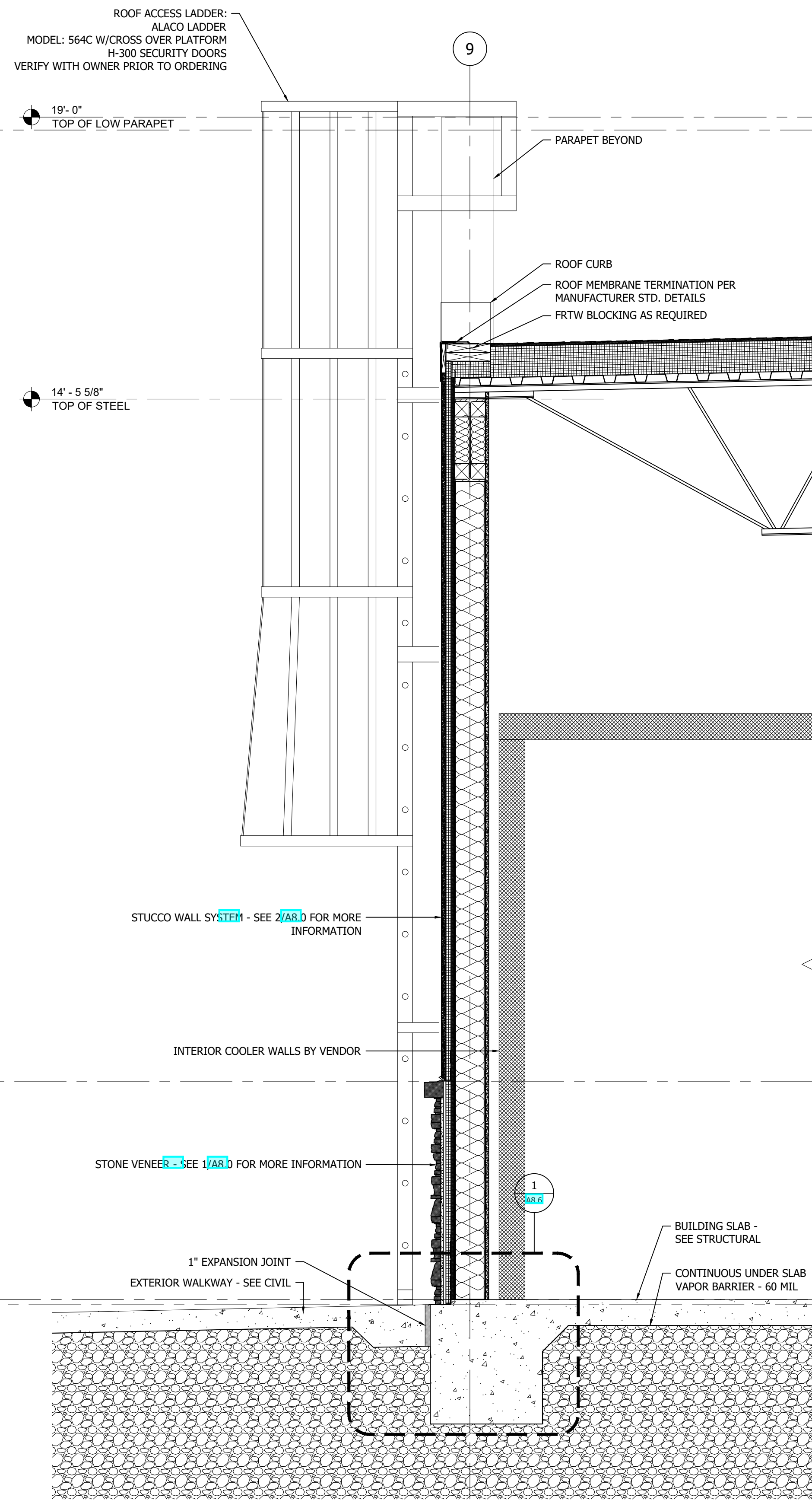
Project No. 170-95.00
Drawn By: KM
Checked By: AFO
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Sheet: **A8.1**



WALL SECTION

SCALE
3/4"=1'-0"

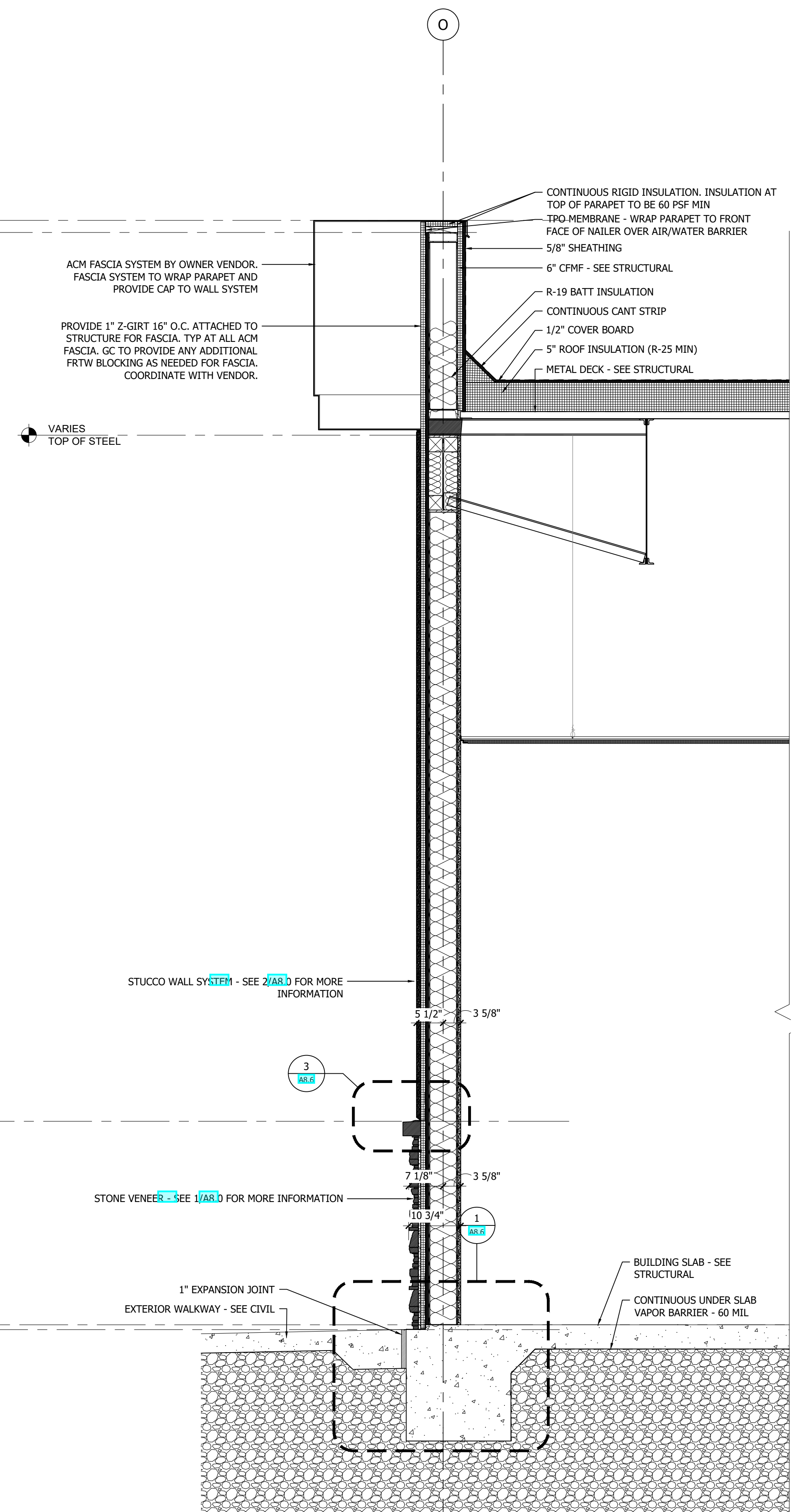
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WALL SECTION

SCALE
3/4"=1'-0"

2



WALL SECTION

SCALE
3/4"=1'-0"

1

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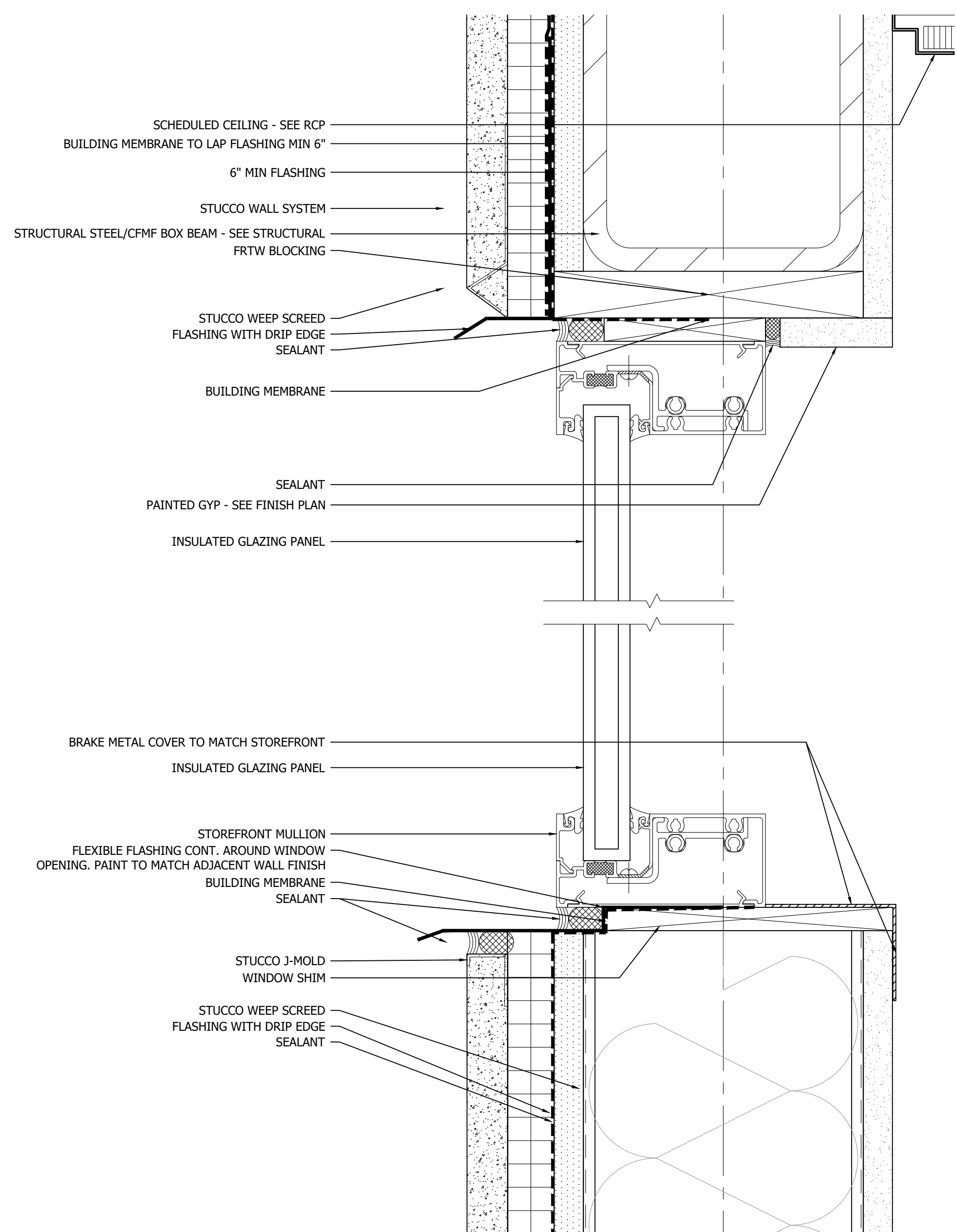
Sheet Title
WALL SECTIONS

Project No.
170-95-00

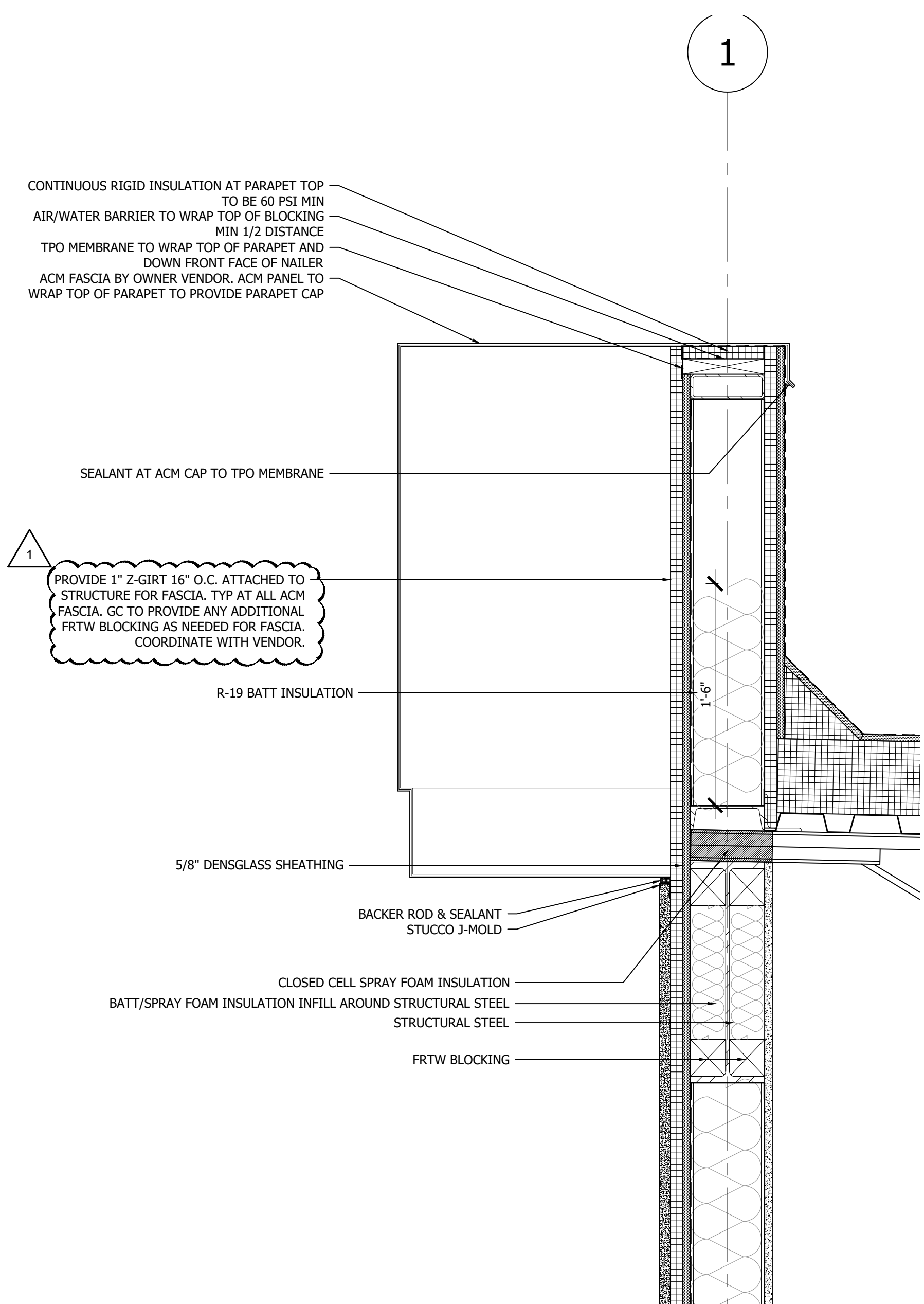
Drawn By:
KM

Checked By:
AFO

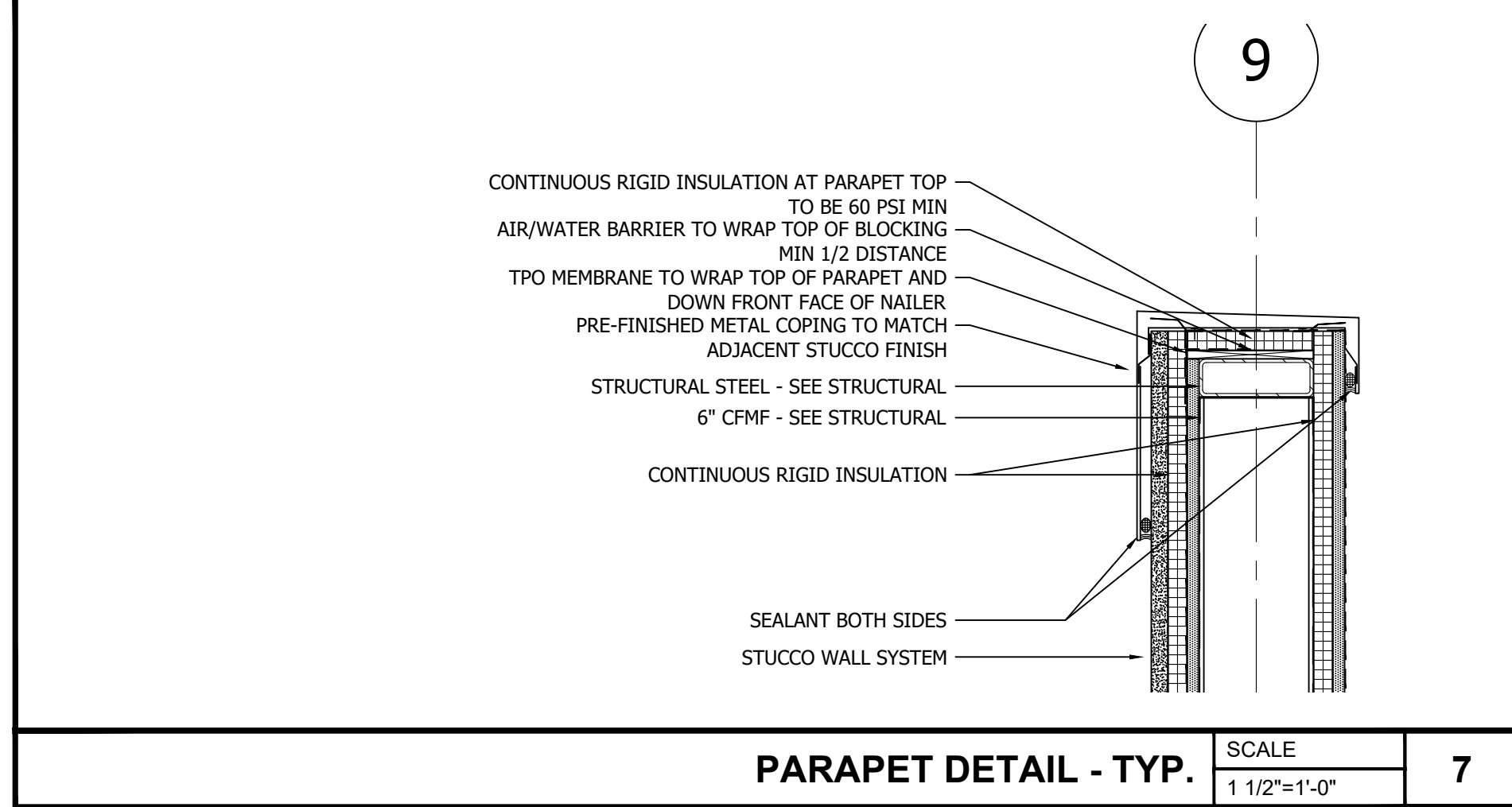
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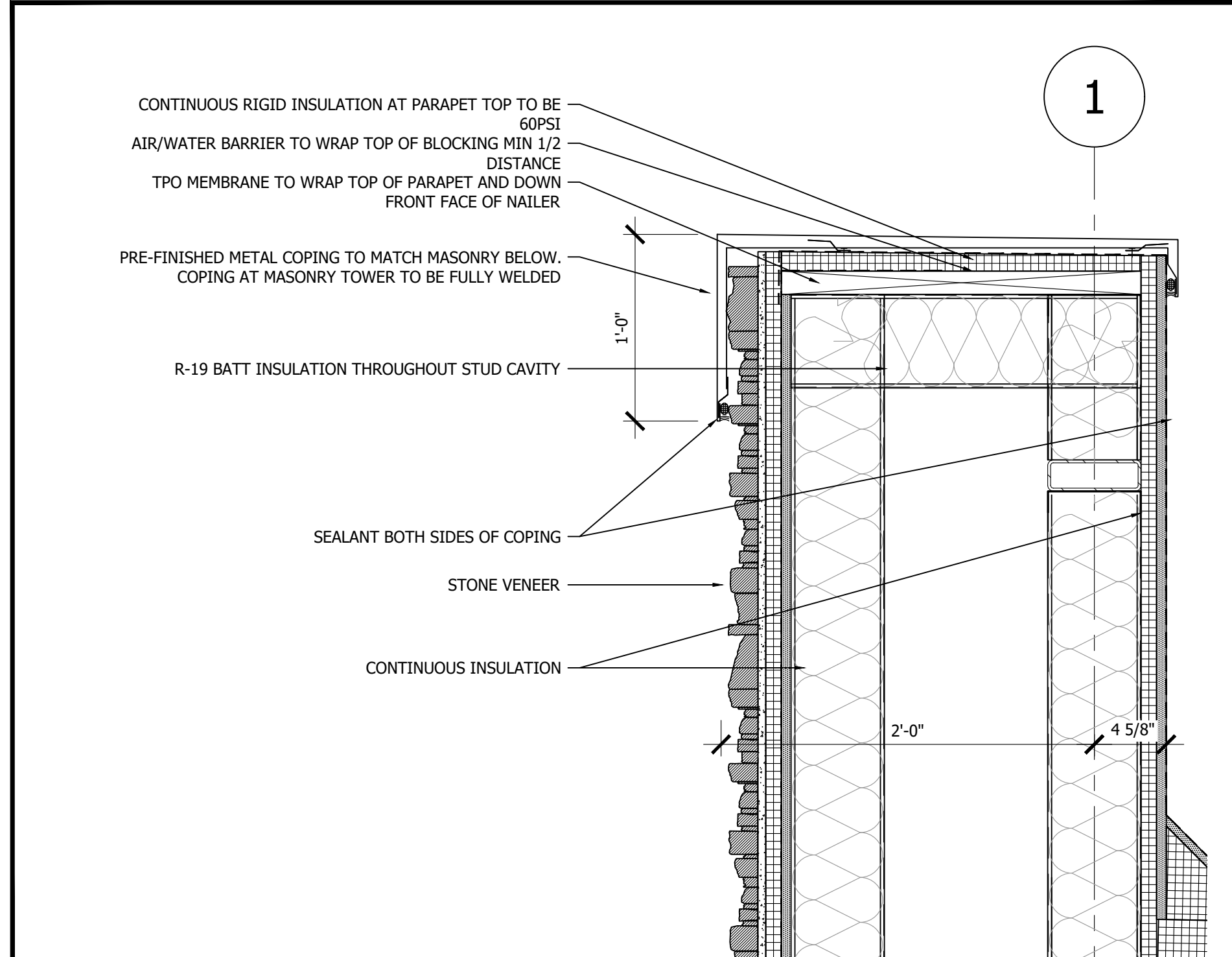
TOP/BOTTOM OF GLAZING AT STUCCO DETAIL SCALE 6"=1'-0" **6**



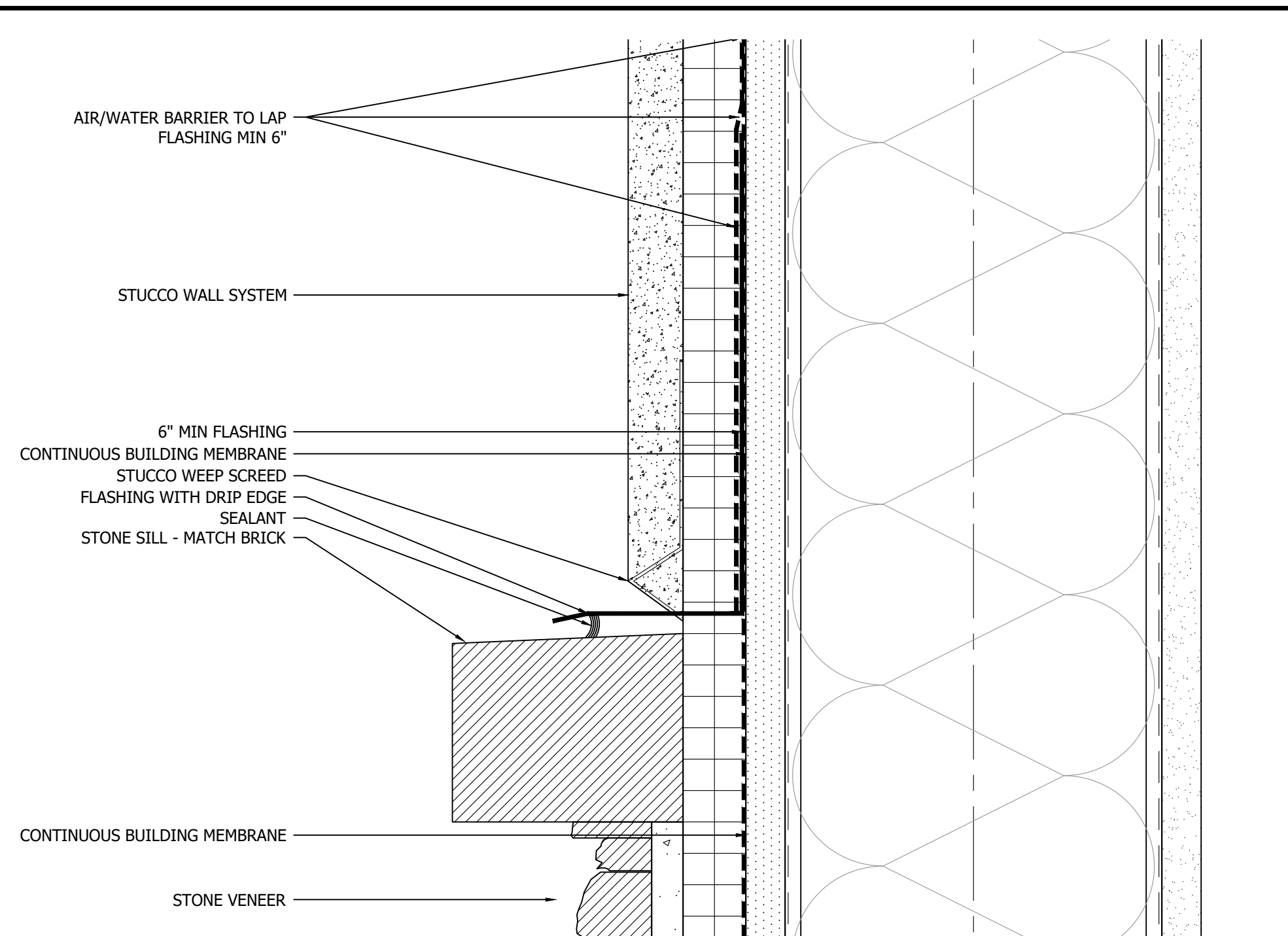
PARAPET DETAIL AT ACM PANEL SCALE 1 1/2"=1'-0" **5**



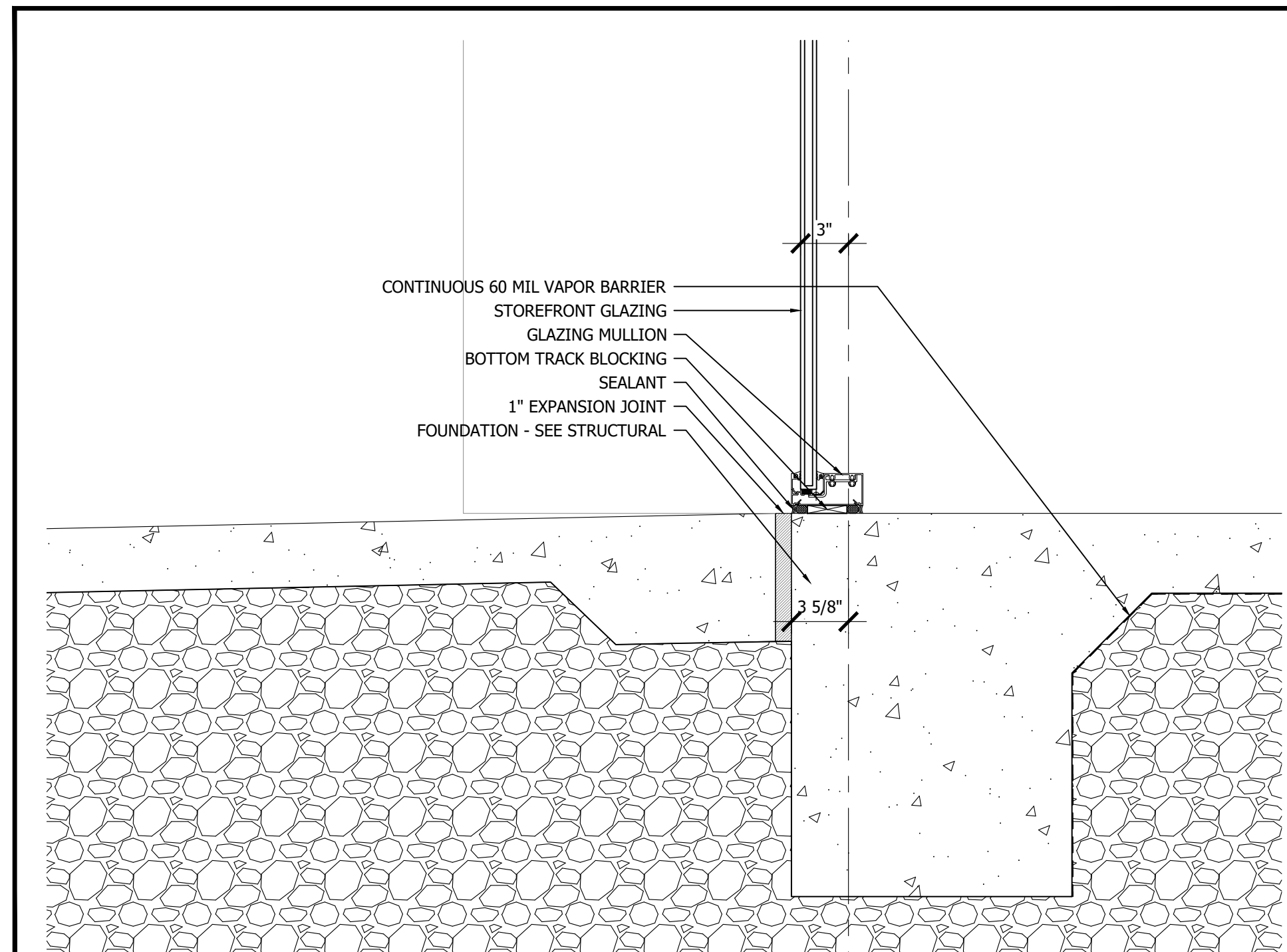
PARAPET DETAIL - TYP. SCALE 1 1/2"=1'-0" **7**



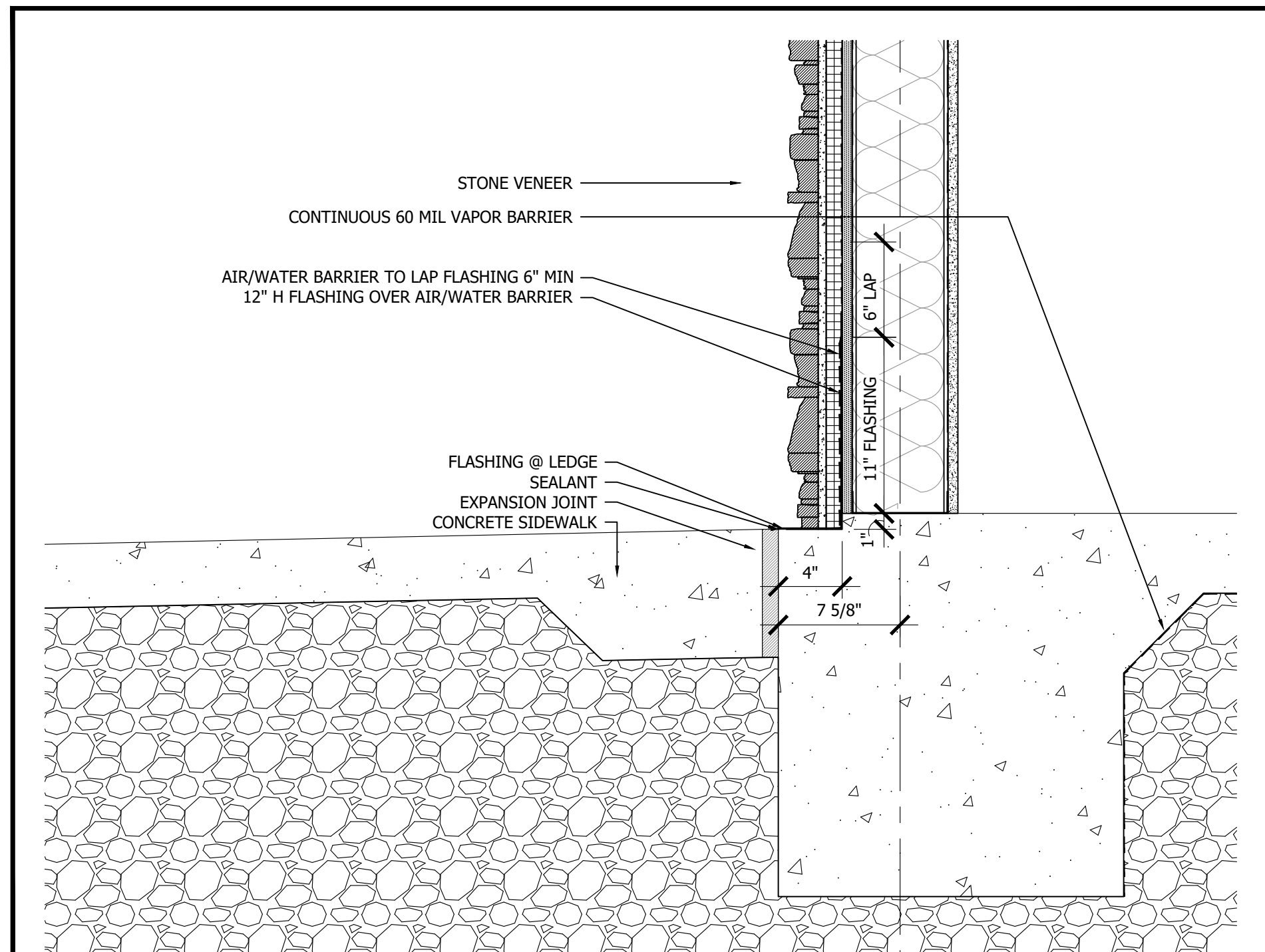
PARAPET DETAIL AT CORNER TOWER SCALE 1 1/2"=1'-0" **4**



STUCCO TO STONE DETAIL SCALE 6"=1'-0" **3**



FOUNDATION DETAIL AT STOREFRONT SCALE 1 1/2"=1'-0" **2**



FOUNDATION DETAIL AT STONE SCALE 1 1/2"=1'-0" **1**

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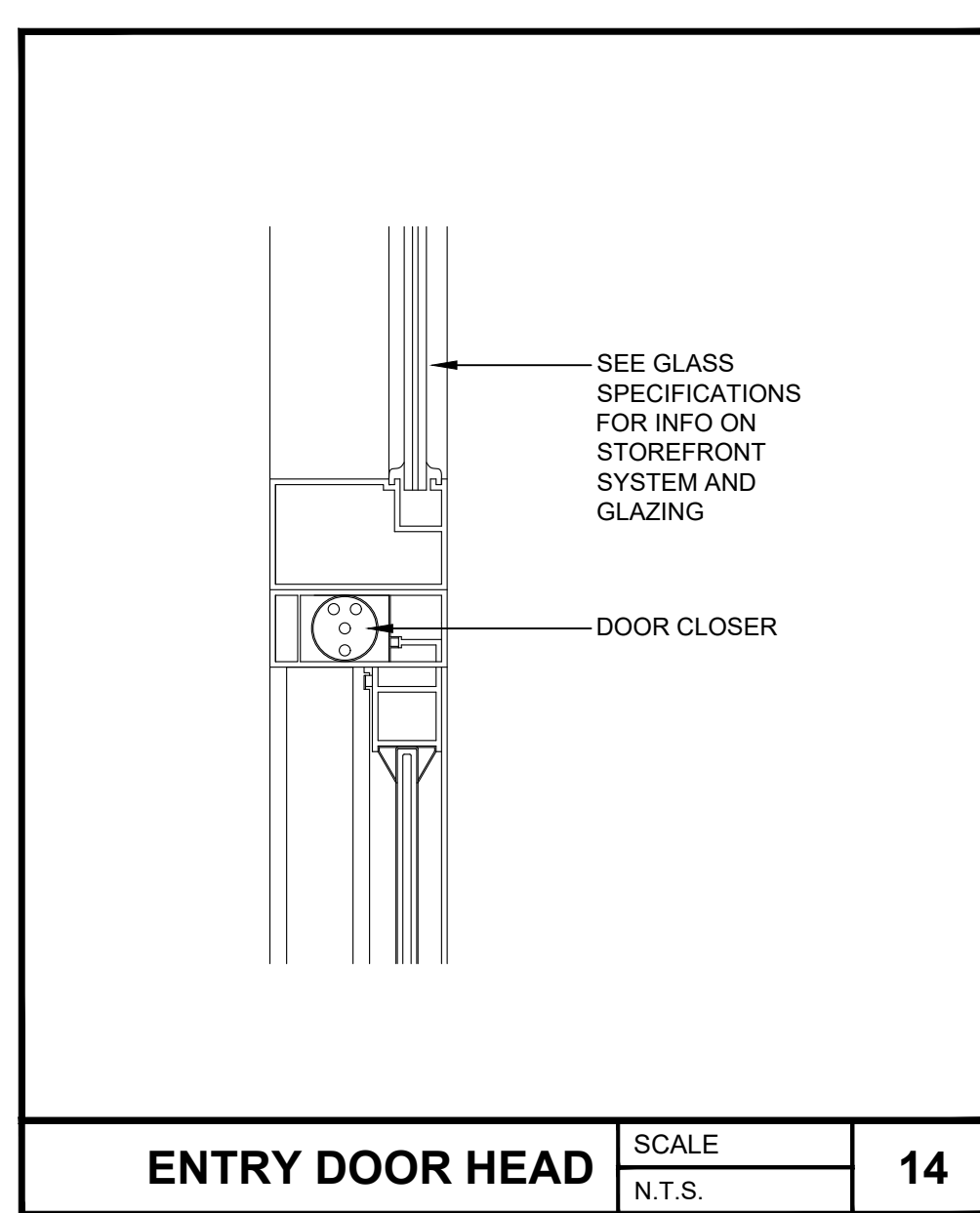
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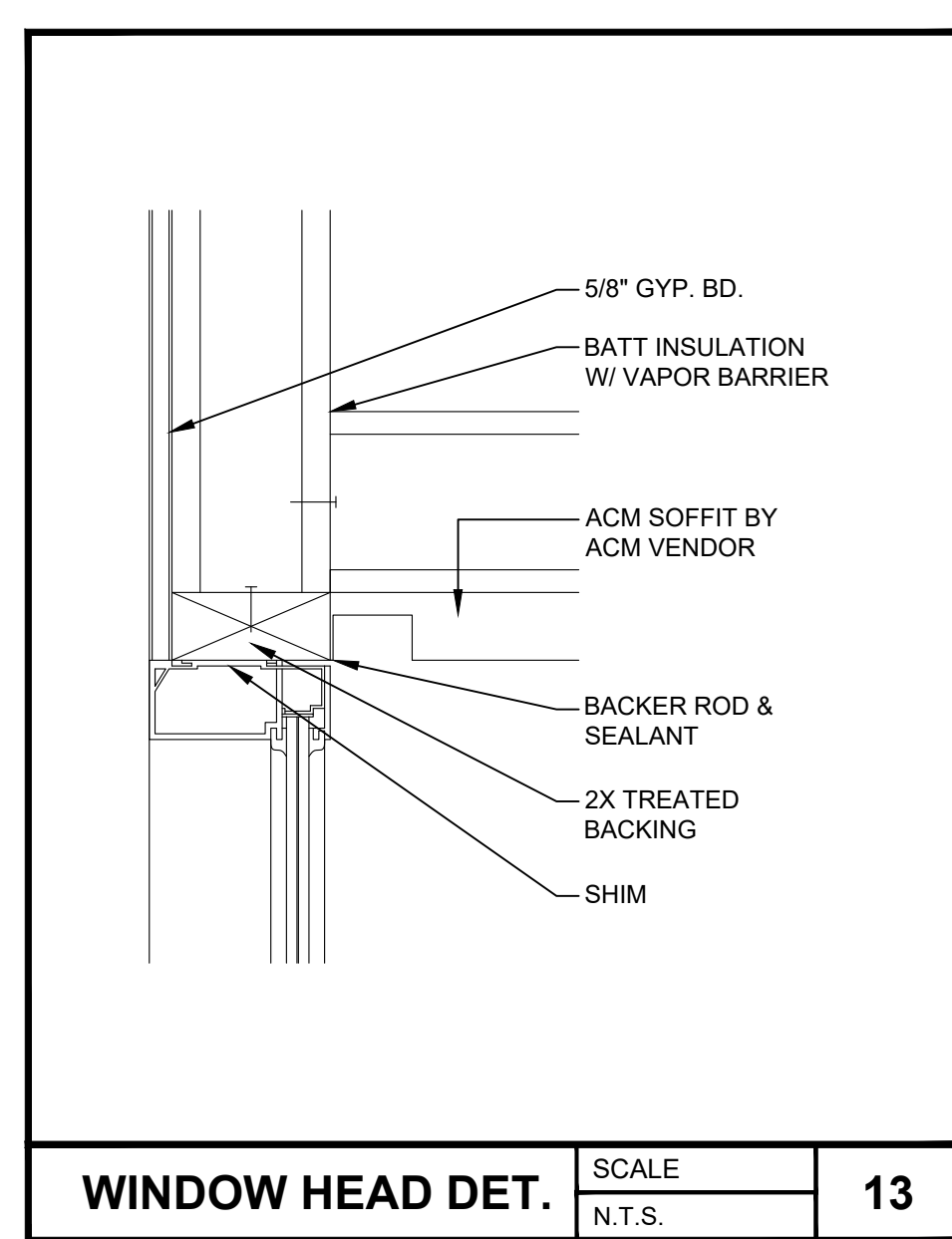
Sheet Title
WALL SECTION DETAILS

Project No. 170-95.00
 Drawn By: KM
 Checked By: AFO

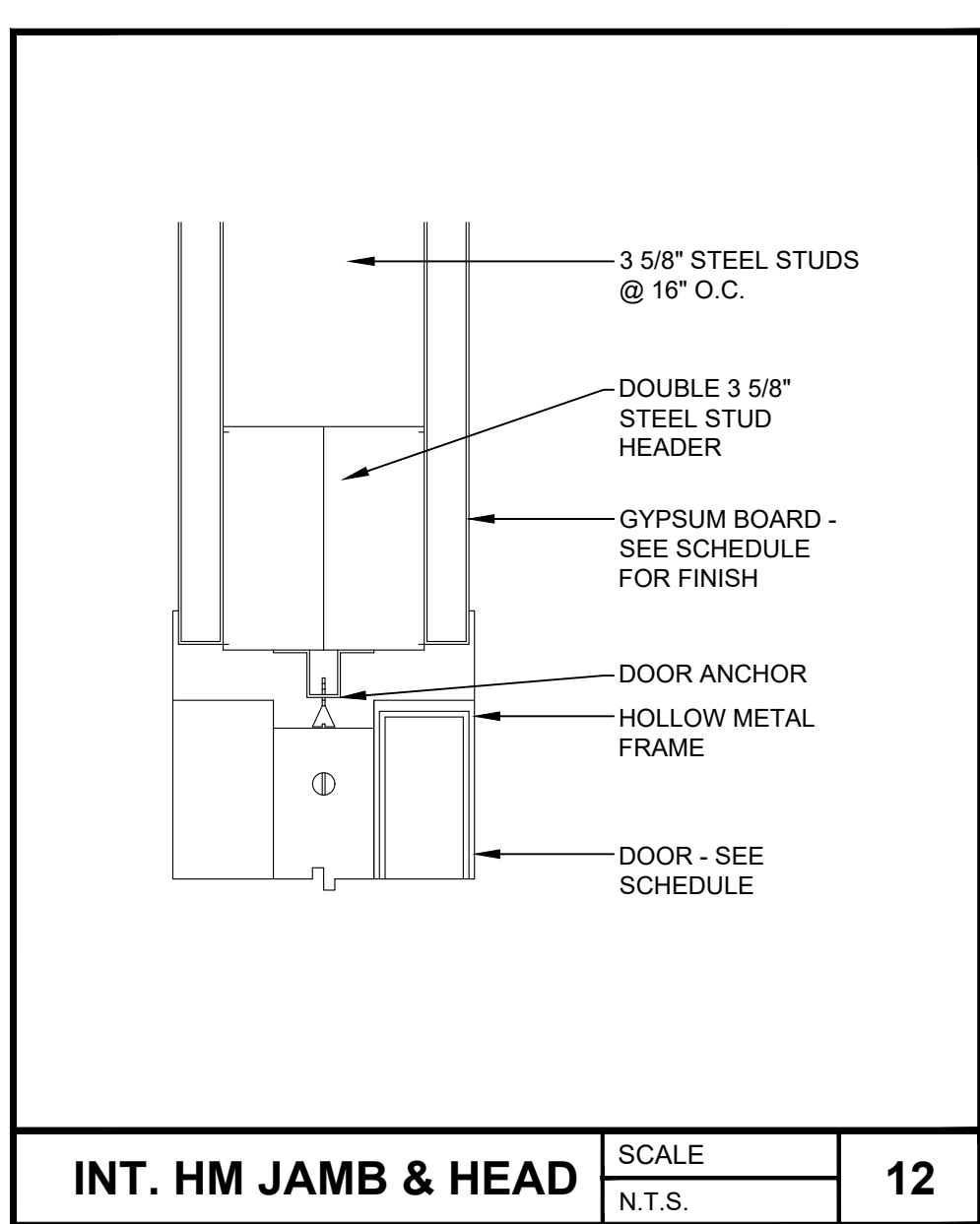
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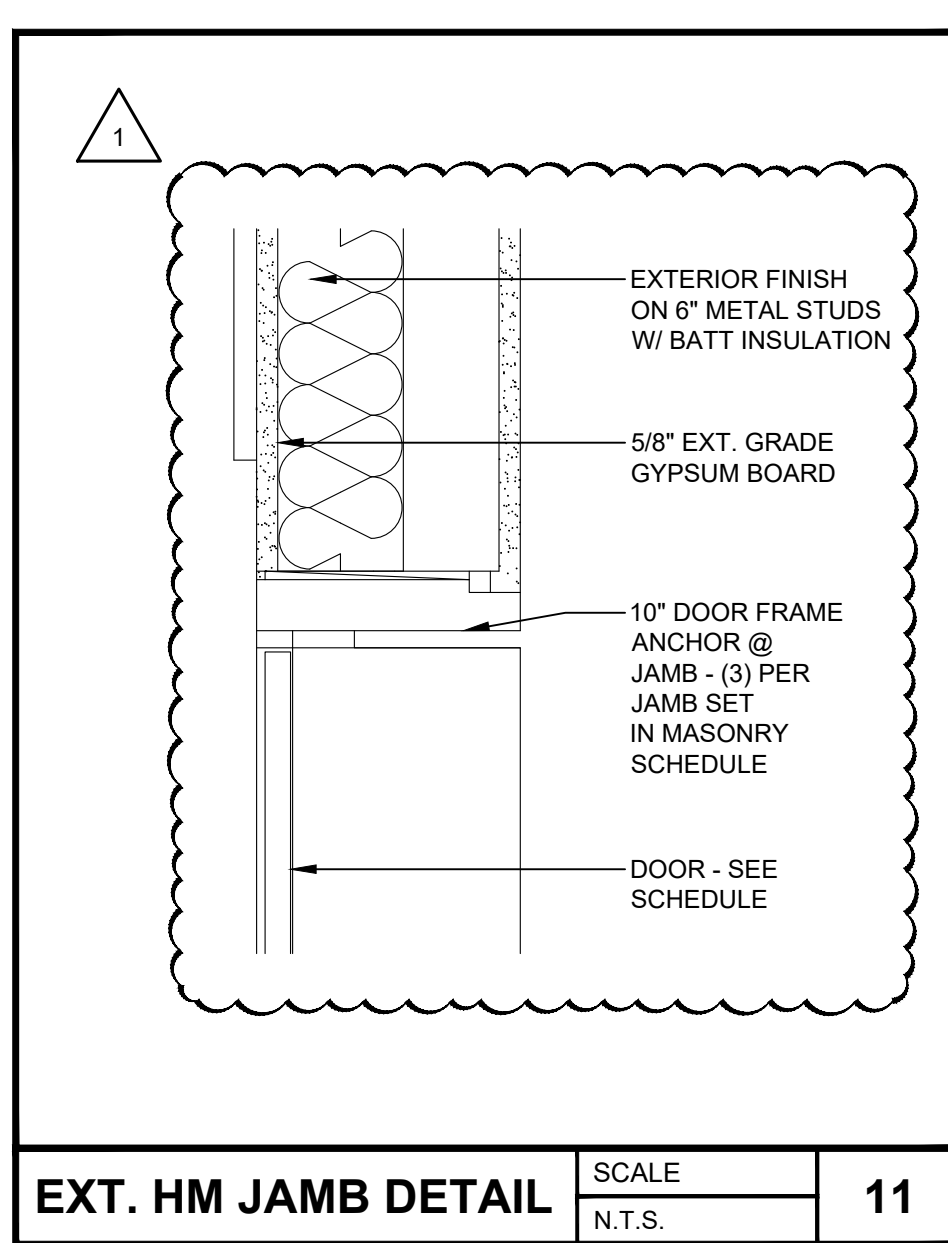
ENTRY DOOR HEAD SCALE N.T.S. **14**



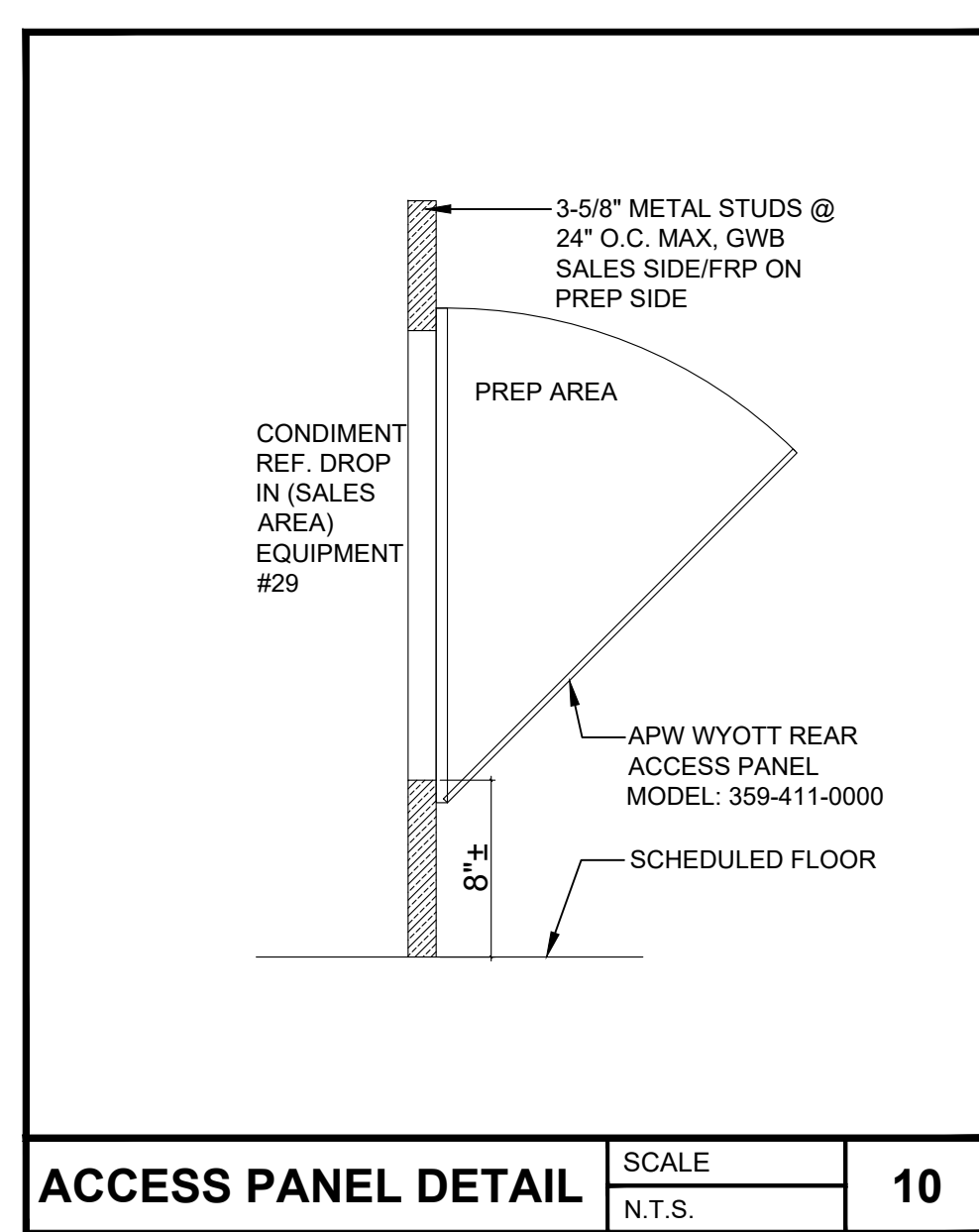
WINDOW HEAD DET. SCALE N.T.S. **13**



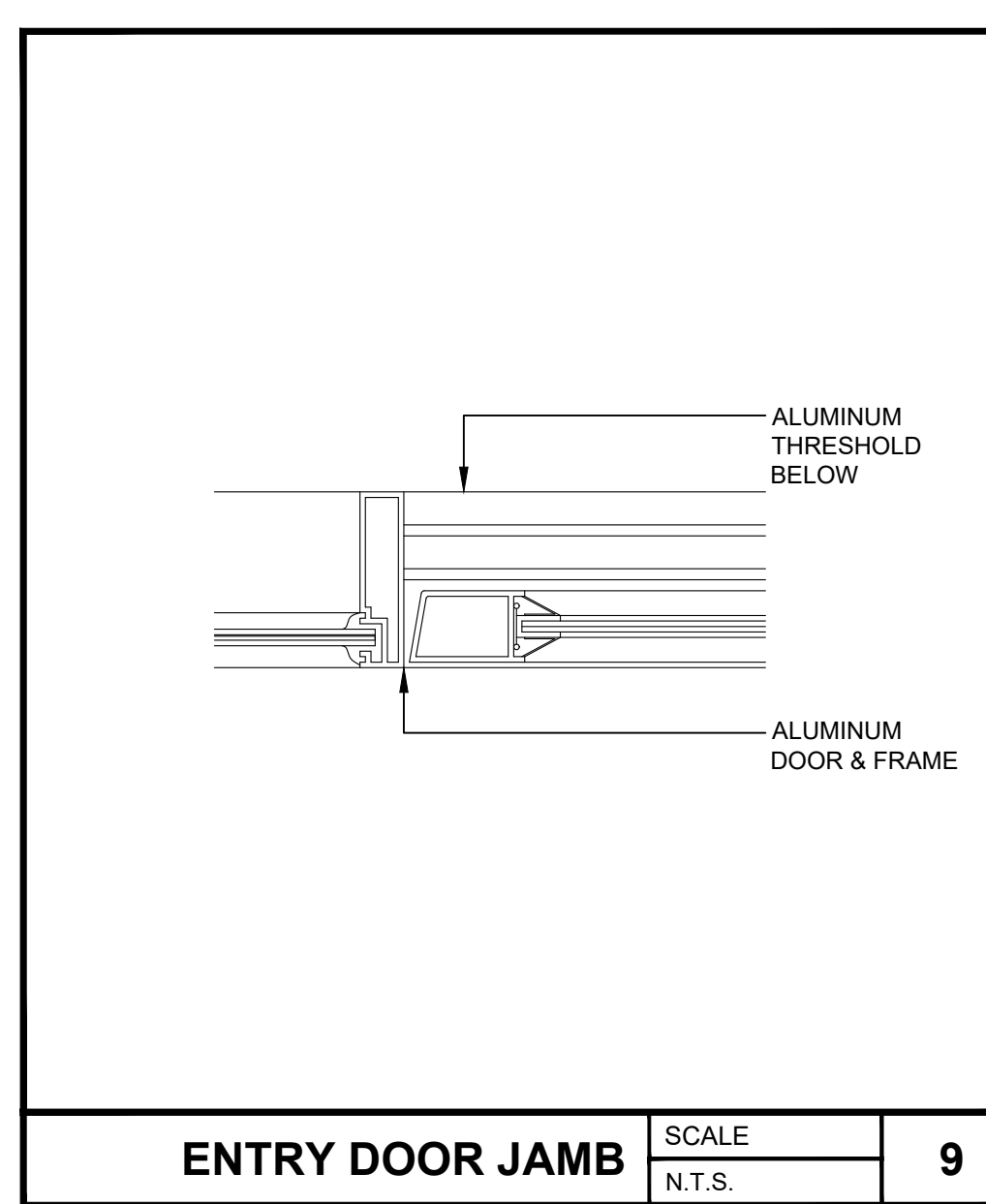
INT. HM JAMB & HEAD SCALE N.T.S. **12**



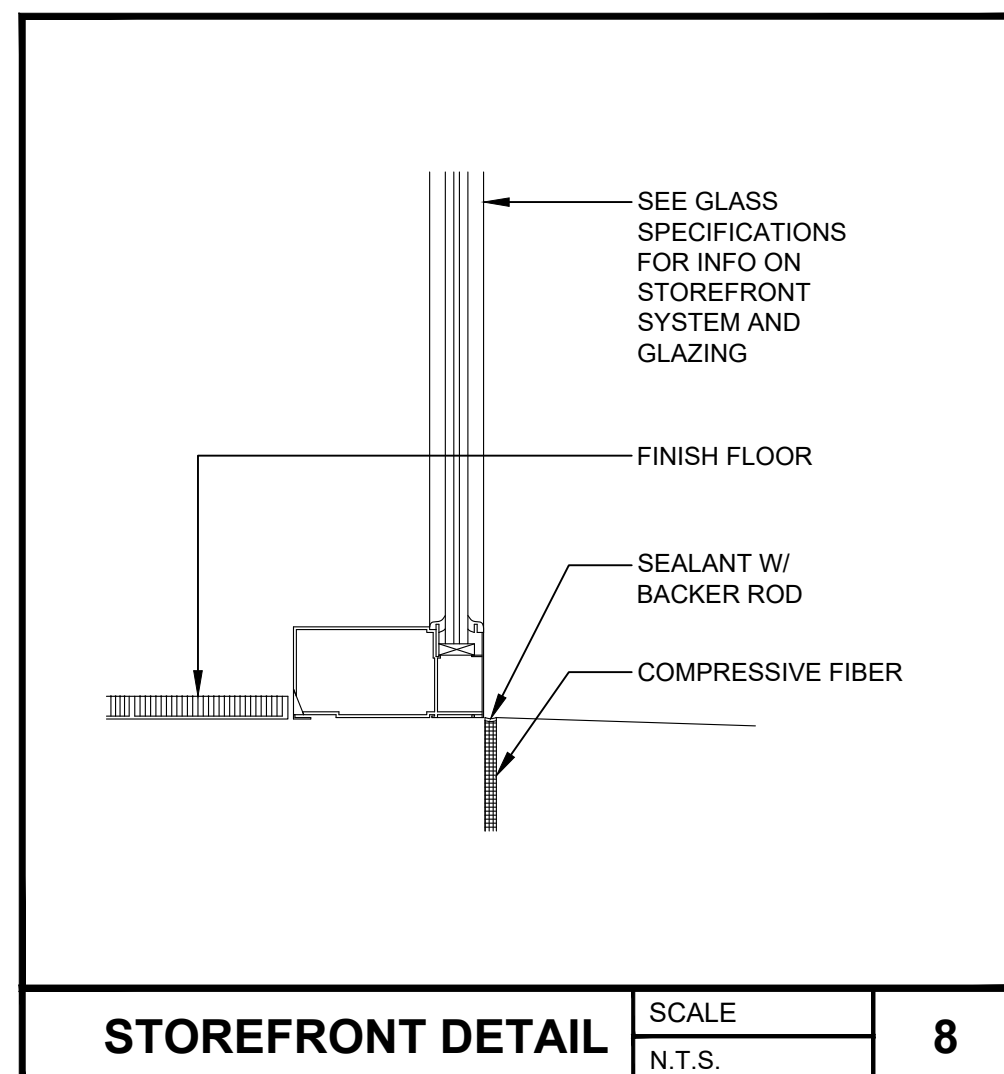
EXT. HM JAMB DETAIL SCALE N.T.S. **11**



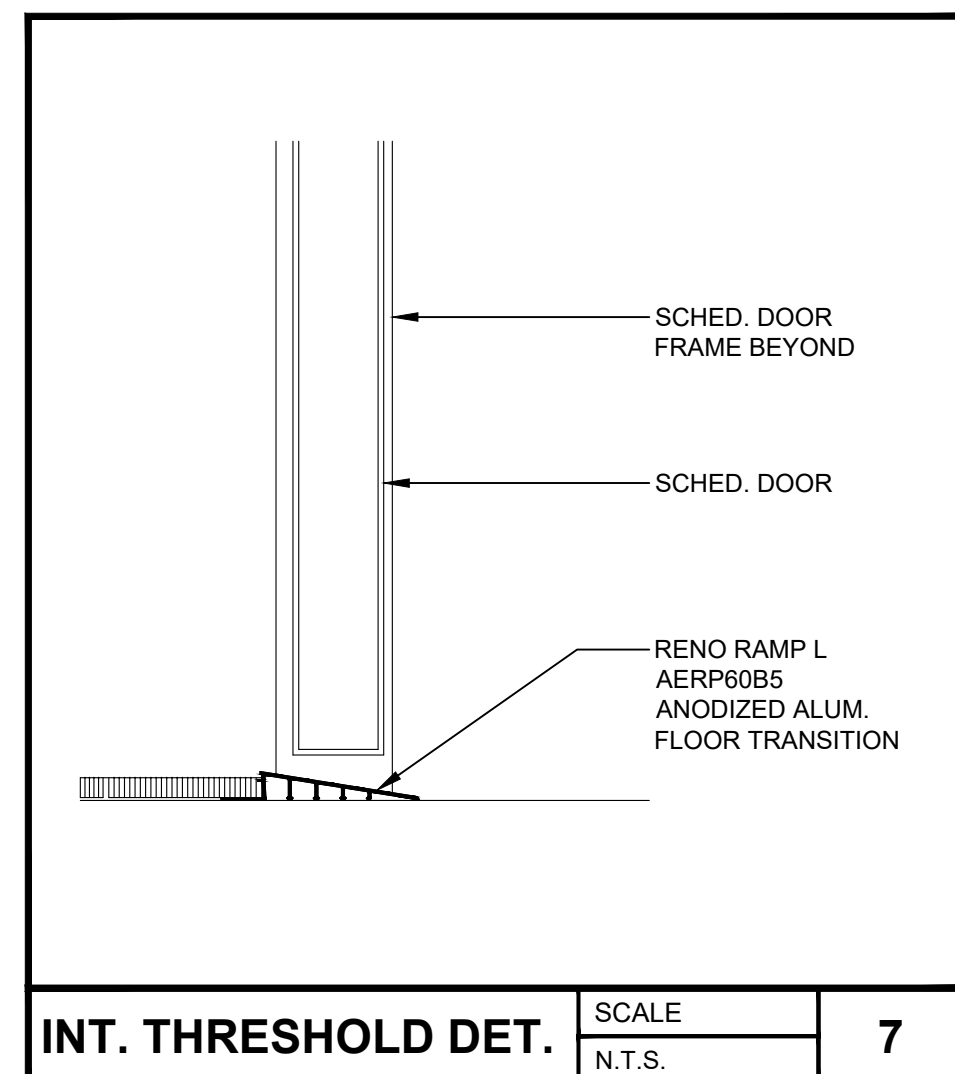
ACCESS PANEL DETAIL SCALE N.T.S. **10**



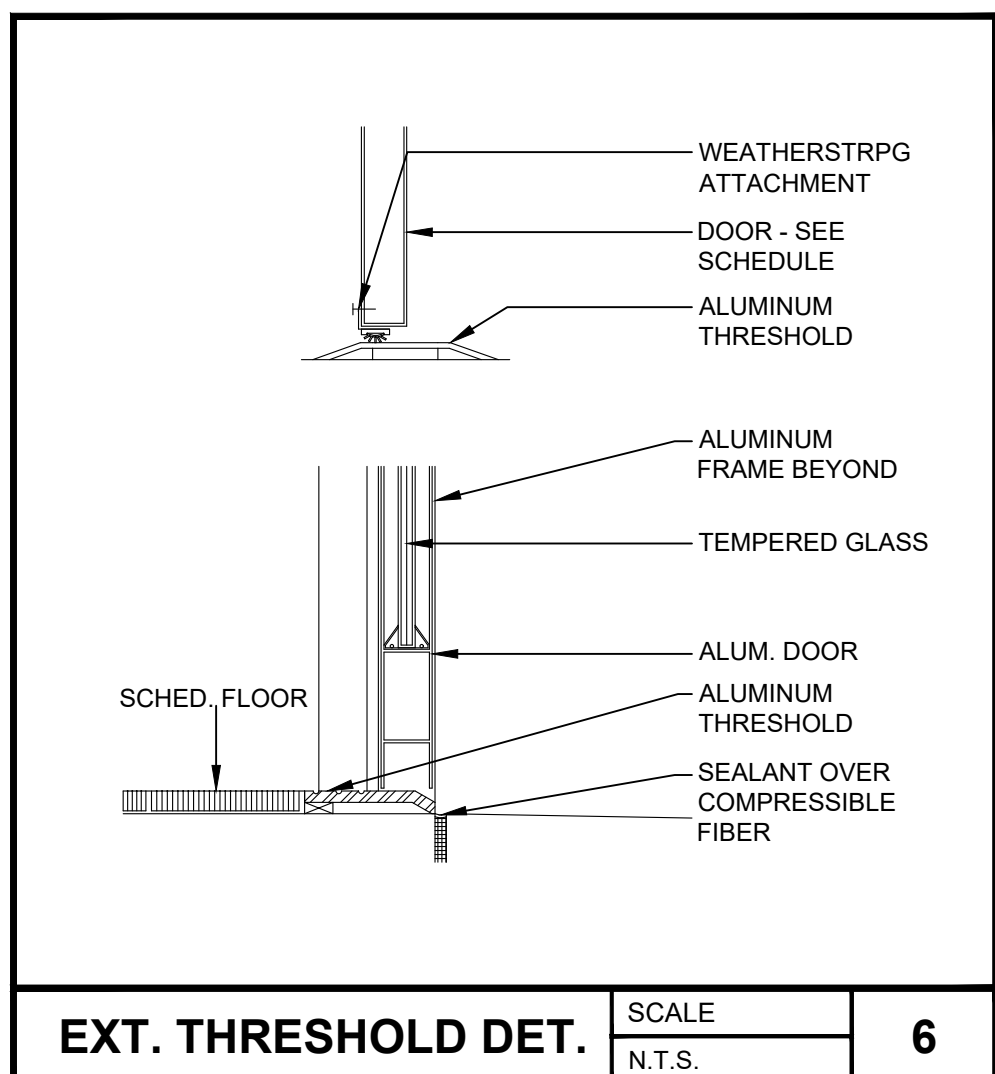
ENTRY DOOR JAMB SCALE N.T.S. **9**



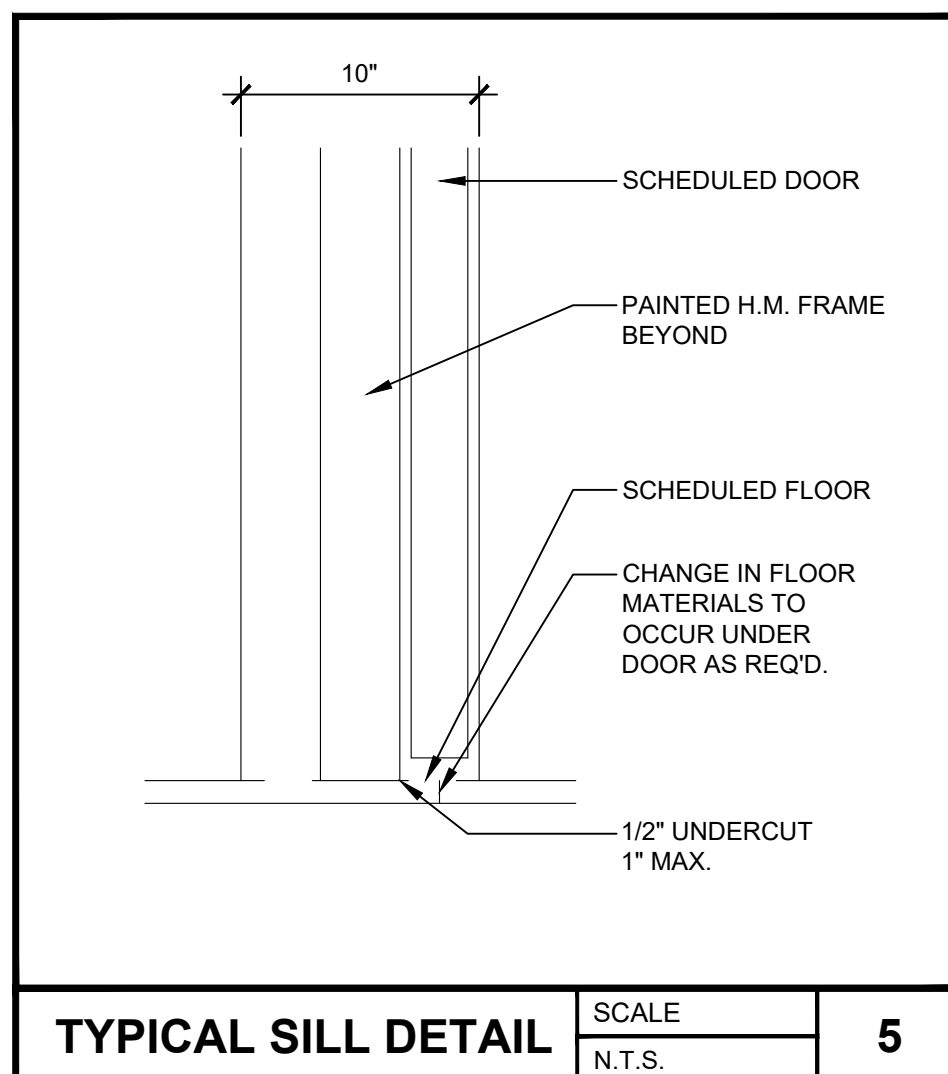
STOREFRONT DETAIL SCALE N.T.S. **8**



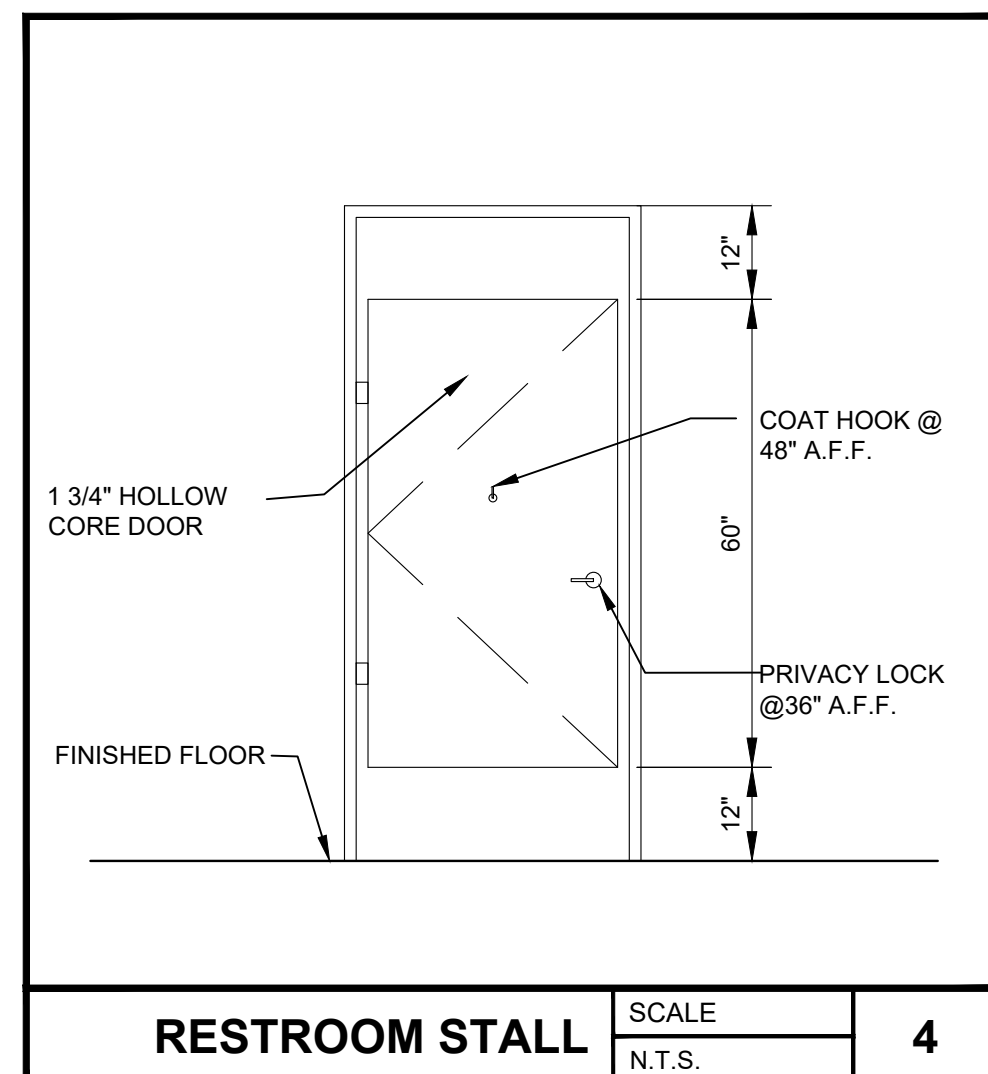
INT. THRESHOLD DET. SCALE N.T.S. **7**



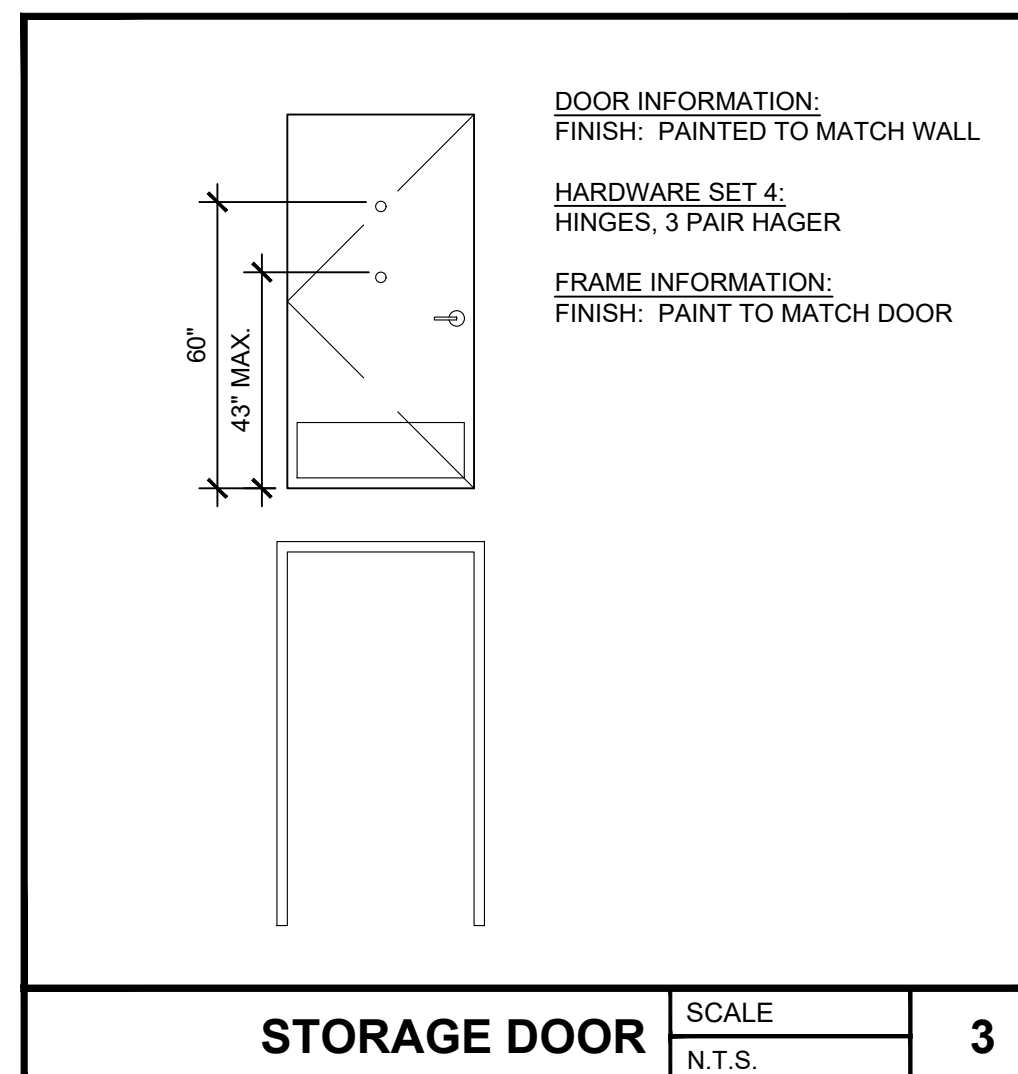
EXT. THRESHOLD DET. SCALE N.T.S. **6**



TYPICAL SILL DETAIL SCALE N.T.S. **5**



RESTROOM STALL SCALE N.T.S. **4**



STORAGE DOOR SCALE N.T.S. **3**

DOOR SCHEDULE

DOOR #	DOOR			FRAME			DOOR		REMARKS
	MATL	TYPE	THK.	MATL	SILL	JAMB HEAD	HW	HDW	
101A	PR 3'-0"	7'-0"	AL/GL		AL/GL	6 9 14	3		TEMPERED GLASS
101B	PR 3'-0"	7'-0"	AL/GL		AL/GL	6 9 14	5		TEMPERED GLASS
103A	3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	7 12 12	6	STORAGE
108A	3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	5 11 11	2	EXTERIOR DOOR
109A	3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	7 12 12	4	OFFICE
114A	2'-6"	5'-0"	HM	FLUSH	1 3/4"	HM	- - -	1	RESTROOM STALL
114B	2'-6"	5'-0"	HM	FLUSH	1 3/4"	HM	- - -	1	RESTROOM STALL
114C	3'-0"	5'-0"	HM	FLUSH	1 3/4"	HM	- - -	1	RESTROOM ADA STALL
115A	PR 2'-8"	7'-0"	AL/GL	FLUSH	1 3/4"	HM	6 9 14	5	TEMPERED GLASS
116A	3'-0"	5'-0"	HM	FLUSH	1 3/4"	HM	- - -	1	RESTROOM AMBULATORY
116B	3'-0"	5'-0"	HM	FLUSH	1 3/4"	HM	- - -	1	RESTROOM ADA STALL
116C	2'-6"	5'-0"	HM	FLUSH	1 3/4"	HM	- - -	1	RESTROOM STALL
TRASH	PR 3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	- - -	*	DOOR AT TRASH ENCLOSURE

* REFER TO SD1.2 FOR DOOR AND HARDWARE INFORMATION AT THE EXTERIOR TRASH ENCLOSURE*

REFER TO SHEET A13.1 FOR ADA STANDARDS AND REQUIREMENTS.

GENERAL NOTES

- ALL EXTERIOR DOORS TO HAVE WEATHER STRIPPING AND SWEEP.
- HARDWARE TO BE COORDINATED AND APPROVED BY OWNER PRIOR TO INSTALLATION.
- HARDWARE TO MEET ALL LOCAL, STATE AND NATIONAL BUILDING CODES.
- ALL HARDWARE IS SCHLAGE D SERIES UNLESS NOTED OTHERWISE.
- HARDWARE FINISH AS INDICATED IN HARDWARE SCHEDULE.
- HARDWARE SUPPLIER TO SUBMIT HARDWARE SCHEDULE TO G.C. FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL LOCKS TO BE ON "MASTER KEY SYSTEM"
- VERIFY ALL DOOR SPECS WITH OWNER BEFORE HAND.

HDW SET NO.	BUTTS			CLOS			LOCKS			STOPS			PULL			MISCELLANEOUS										REMARKS
	B-1	B-2	B-3	C-1	C-2	C-3	L-1	L-2	L-3	S-1	S-2	S-3	P-1	M-1	M-2	M-3	M-4	M-5	M-6	M-7	M-8	M-9	M-10	PB-21		
1	2	1																								RESTROOM STALLS
2	3	1												1	1	1	1									H.M. EXTERIOR DOOR
3	6		2										2						2							ALUM. & GLASS ENTRANCE DOUBLE DOORS
4	3	1	1				3	1	1							1			1			1	1	2		INTERIOR DOOR W/ PRIVACY LOCKSET
5	6		2				1						2						2							ALUM. & GLASS ENTRANCE DOUBLE DOORS
6	3		1	1	1	1	3	1	1							1			1				1	2		INTERIOR DOOR W/ PRIVACY LOCKSET

HARDWARE

BUTTS

B-1 MCKINNEY, TA2714, 4-1/2" X 4-1/2", US26D
 B-2 MCKINNEY, TA2314 NRP, 4-1/2" X 4", DARK OXIDIZDE COPPER US32D
 B-3 MCKINNEY SPRING HINGE 1502 4-1/2" X 4-1/2"

CLOSERS

C-1 YALE 2701
 C-2 KAWNEER, SAM-11, SINGLE ACTING MANUAL CONCEALED OVERHEAD CLOSER

LOCKS

L-1 LOCKSET, SCHLAGE ND40S, RHO, 626
 L-2 DEADBOLT, SCHLAGE, KEYED BOTH SIDES, B252PD
 L-3 LOCKSET CYLINDER, KABA ILCO, 7181TK1-26D

STOPS, SILENCERS, ETC.

S-1 SILENCERS, ROCKWOOD 608-RKW, GRAY
 S-2 DOOR STOP, TRIMCO, 1213ES, US26D

PULLS

P-1 KAWNEER STYLE C09, US32D

MISCELLANEOUS

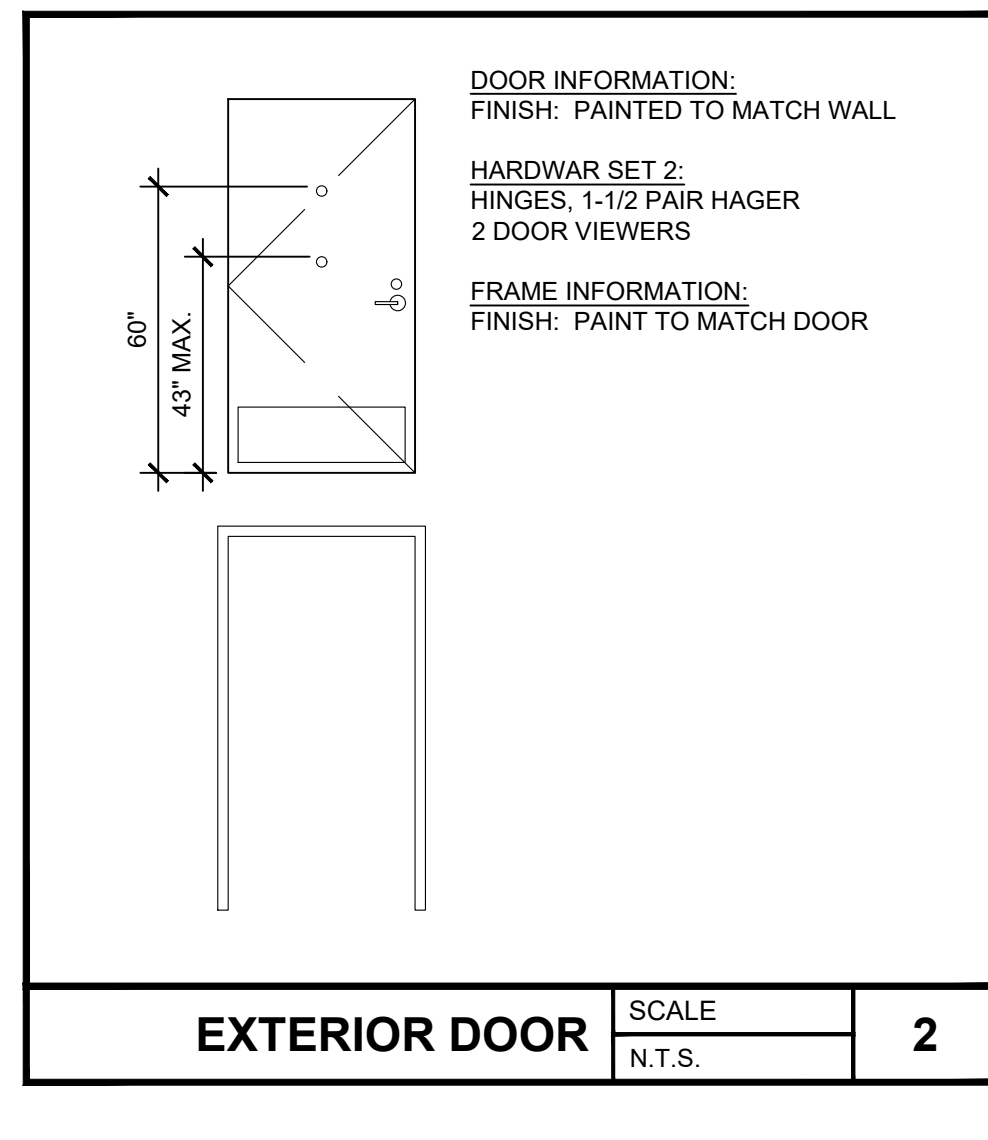
M-1 SARGENT ALARMED PANIC BAR, #5304 (OUTSIDE KEY CONTROL)
 WITH FULL TRIM SCHLAGE CYLINDER
 M-2 WALL STOP, ROCKWOOD 404, US26D
 M-3 THRESHOLD, PEMKO 2005AT X 36", ALUM.
 M-4 STANDARD PERIMETER GASKET, PEMKO ASTRAGAL 303AV X 84"
 M-5 KICK PLATE, 12" HIGH X DOOR WIDTH LESS 2" STAINLESS STEEL, IVES 8400-826D
 M-6 SCHLUTER TRANSITION STRIP, RENO-JU
 M-7 FLOOR STOP, ROCKWOOD 443, US26D (NOT USED)
 M-8 COATHOOK, BOBRICK B-233
 M-9 WRAP AROUND DOOR EDGE GUARD ENTRY AMOR, DON-JO 4-S-CW
 M-10 PEEP HOLE - DS2000
 PB-21 PUSH BAR, STANDARD 1" TUBULAR PUSH BAR.

4.13.5 ENSURE COMPLIANCE: DOORWAYS SHALL HAVE A MIN. CLEAR OPENING OF 32" WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.

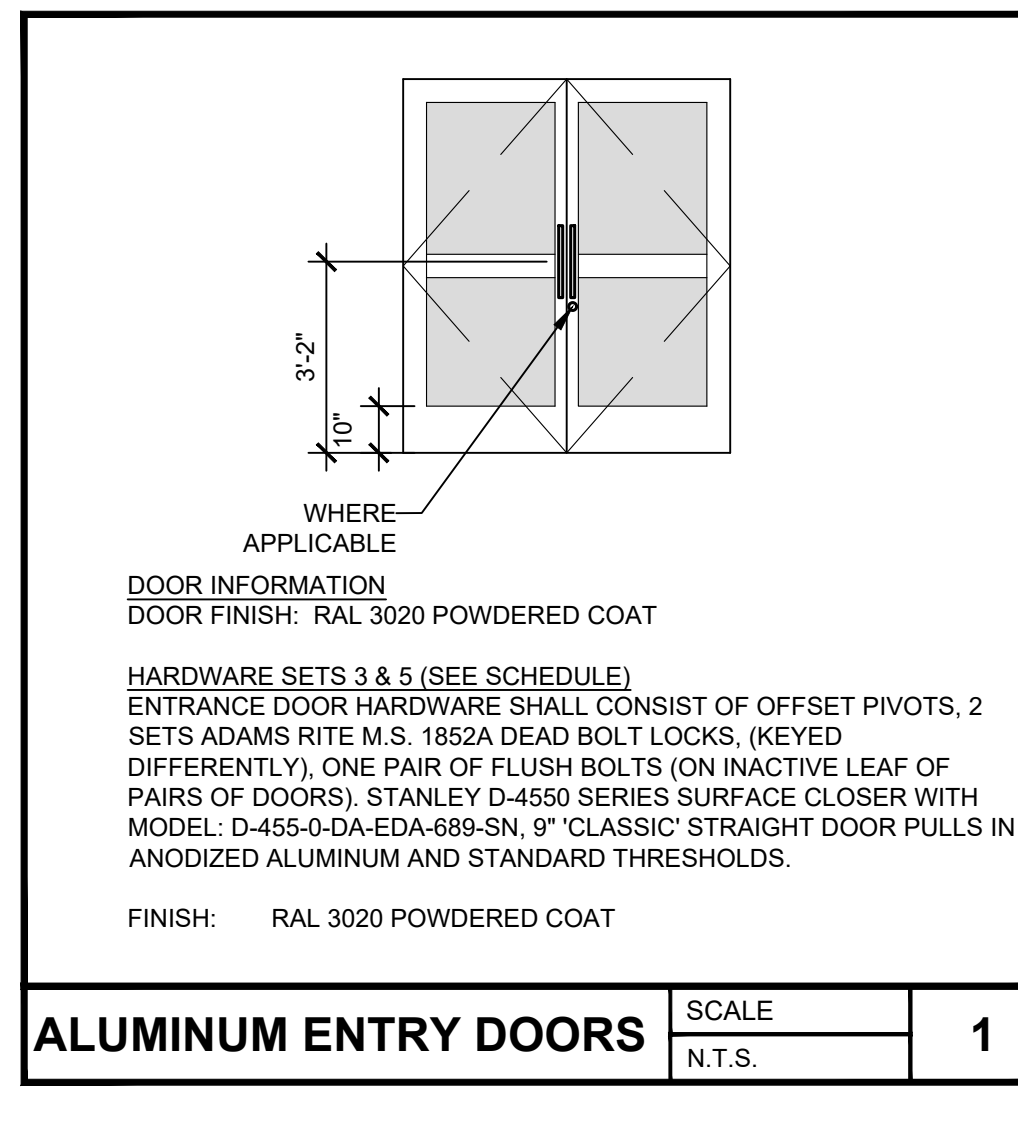
4.13.8 ENSURE COMPLIANCE: THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3". RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

4.13.10 ENSURE COMPLIANCE: THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

404.2.9 DOOR AND GATE OPENING FORCE: INTERIOR HINGED DOORS AND GATES SHALL HAVE A MAX OPENING FORCE OF 5LBS. EXTERIOR HINGED DOORS AND GATES SHALL HAVE A MAX OPENING FORCE OF 8.5LBS.



EXTERIOR DOOR SCALE N.T.S. **2**



ALUMINUM ENTRY DOORS SCALE N.T.S. **1**

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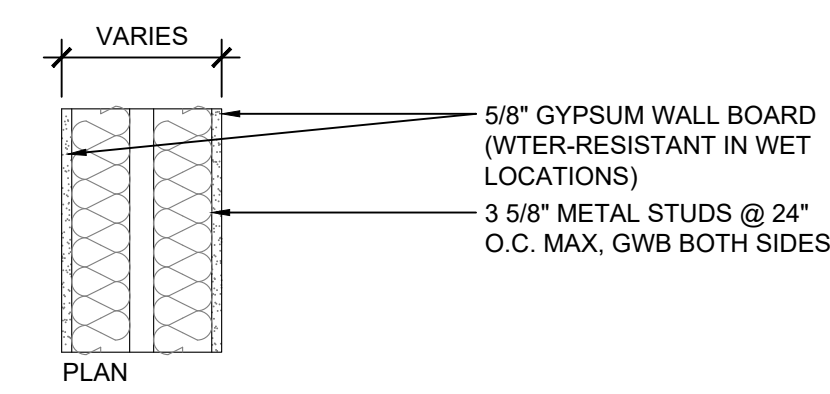
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
DOOR SCHEDULE

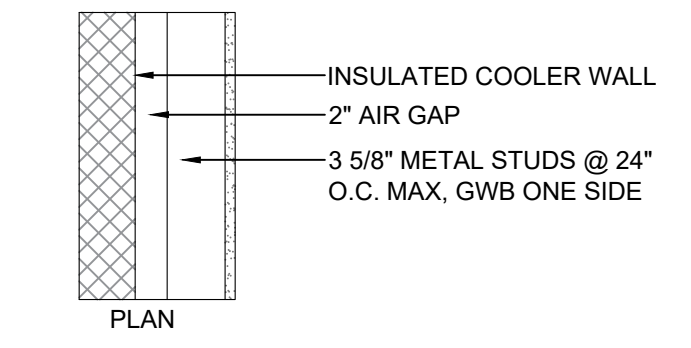
Project No. 170-95.00	Sheet
Drawn By: KM	A9.0
Checked By: AFC	



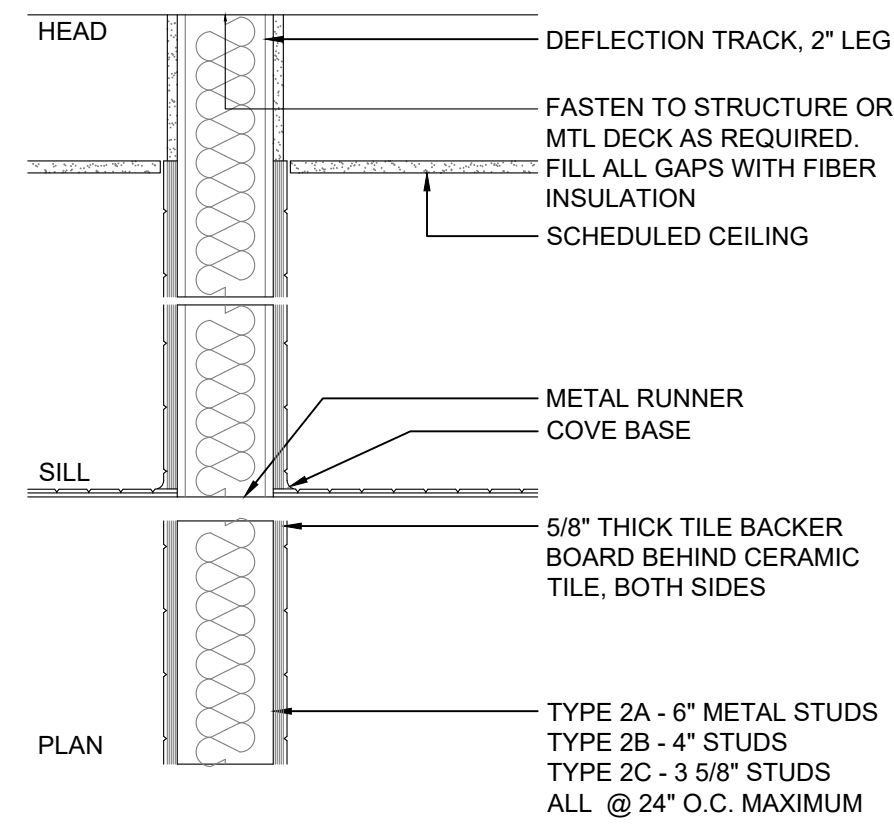
SOFFIT DETAIL - BEER CAVE SCALE N.T.S. **13**



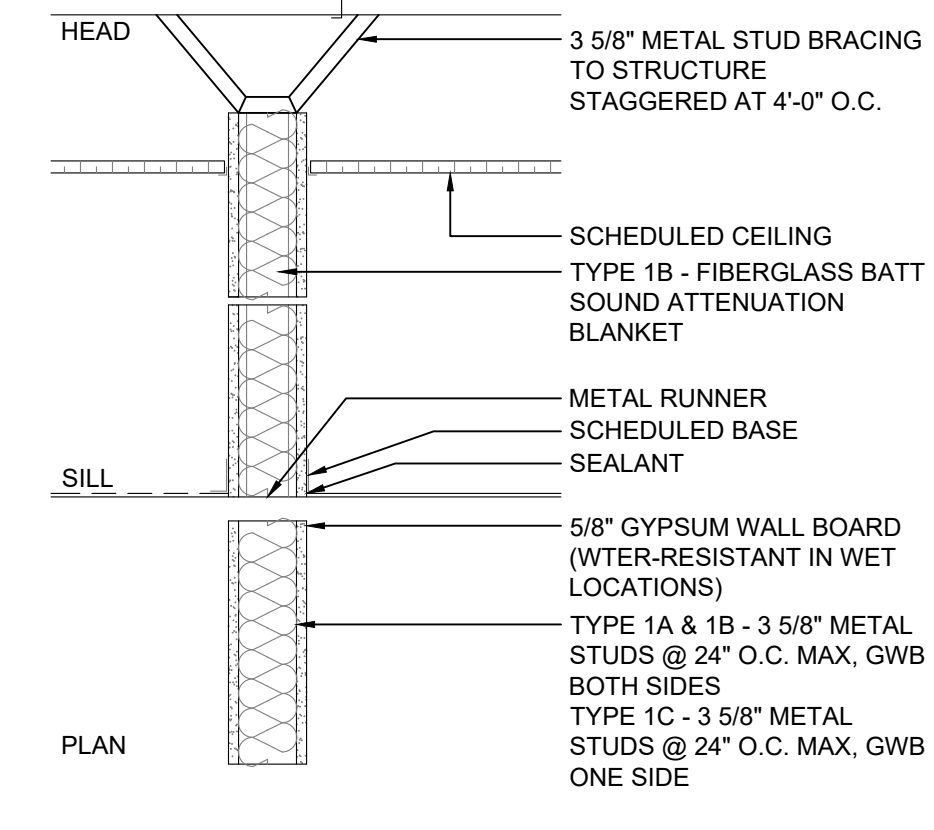
PARTITION TYPE 3A SCALE N.T.S. **12**



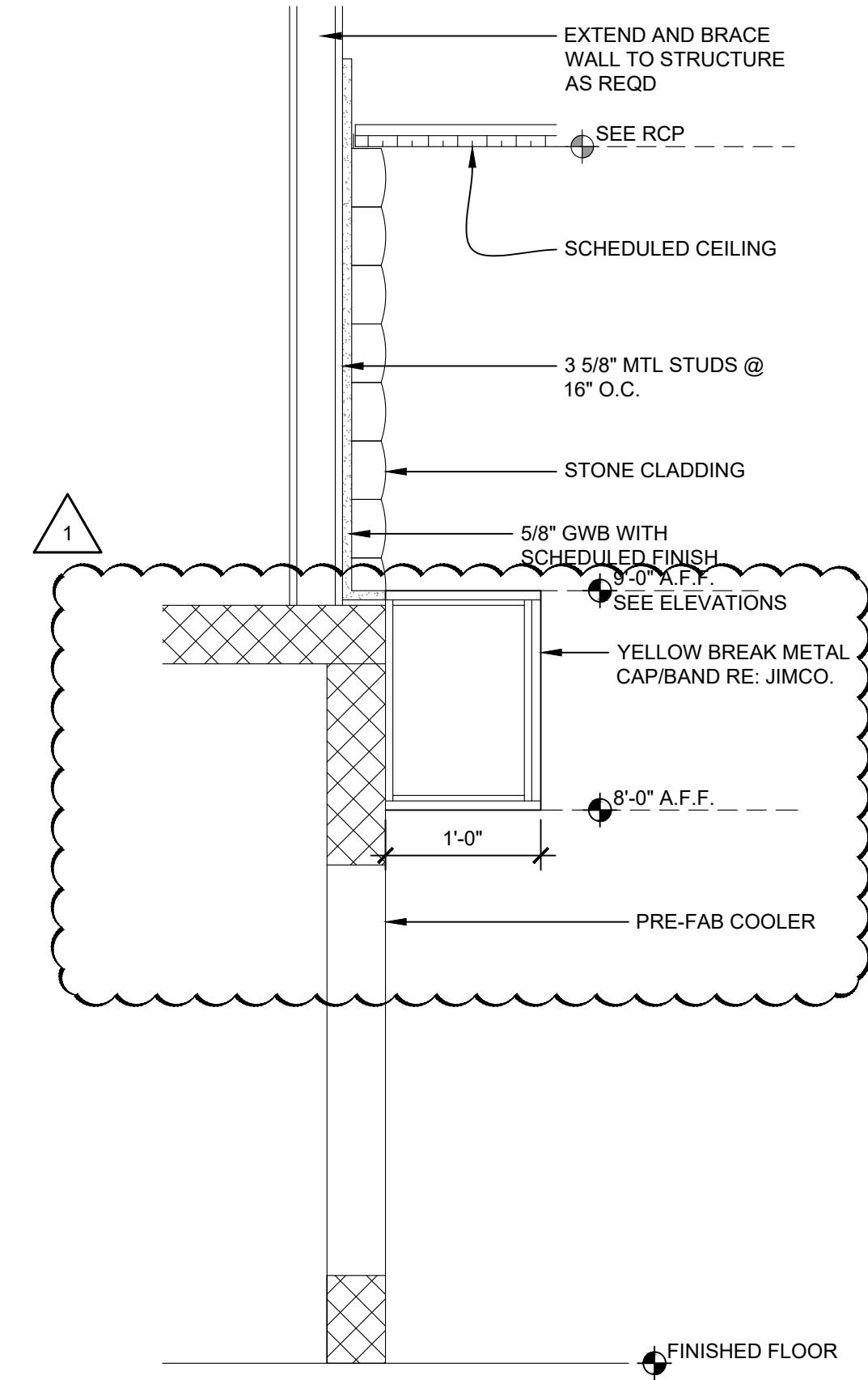
PARTITION TYPE 2D SCALE N.T.S. **11**



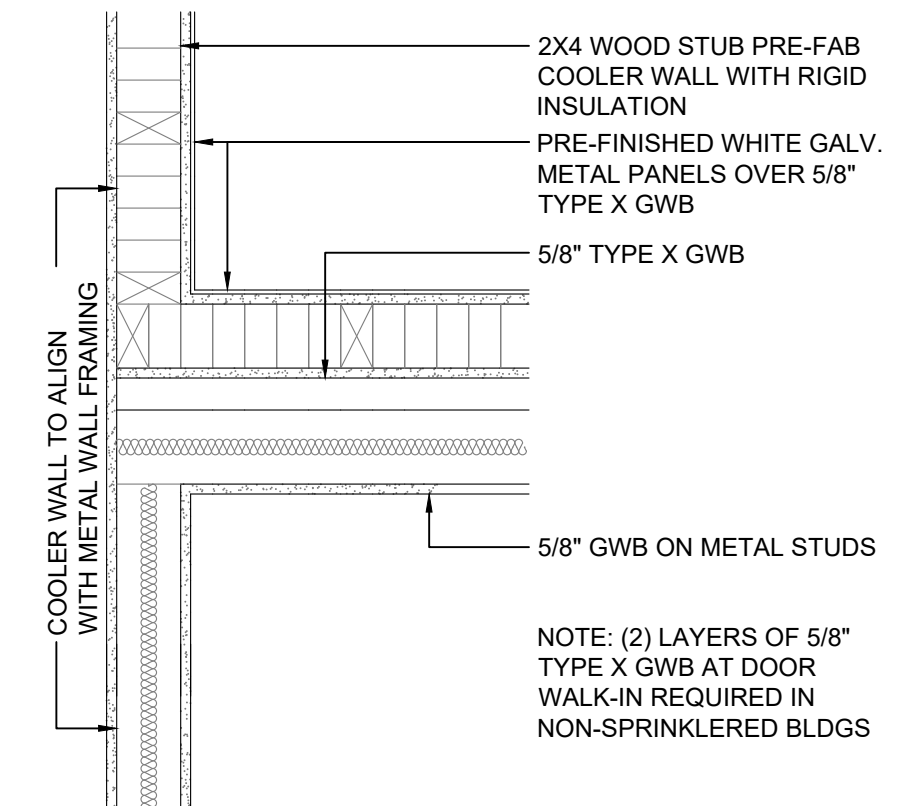
PARTITION TYPE 2A, 2B, 2C SCALE N.T.S. **10**



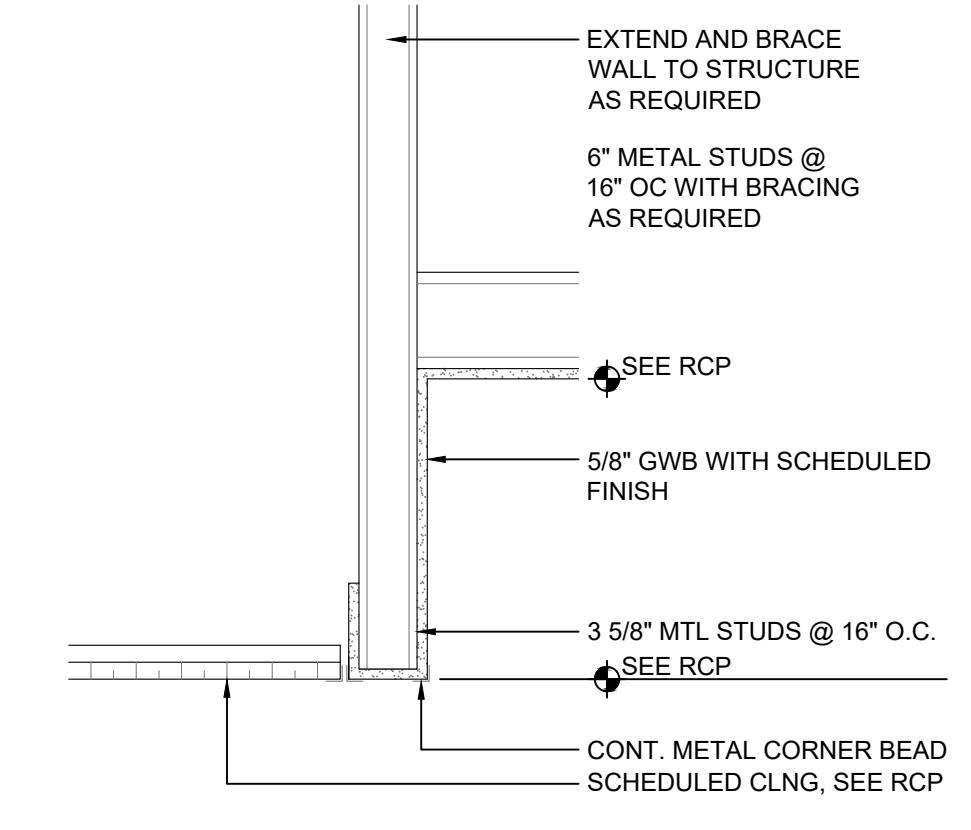
PARTITION TYPE 1A, 1B, 1C SCALE N.T.S. **9**



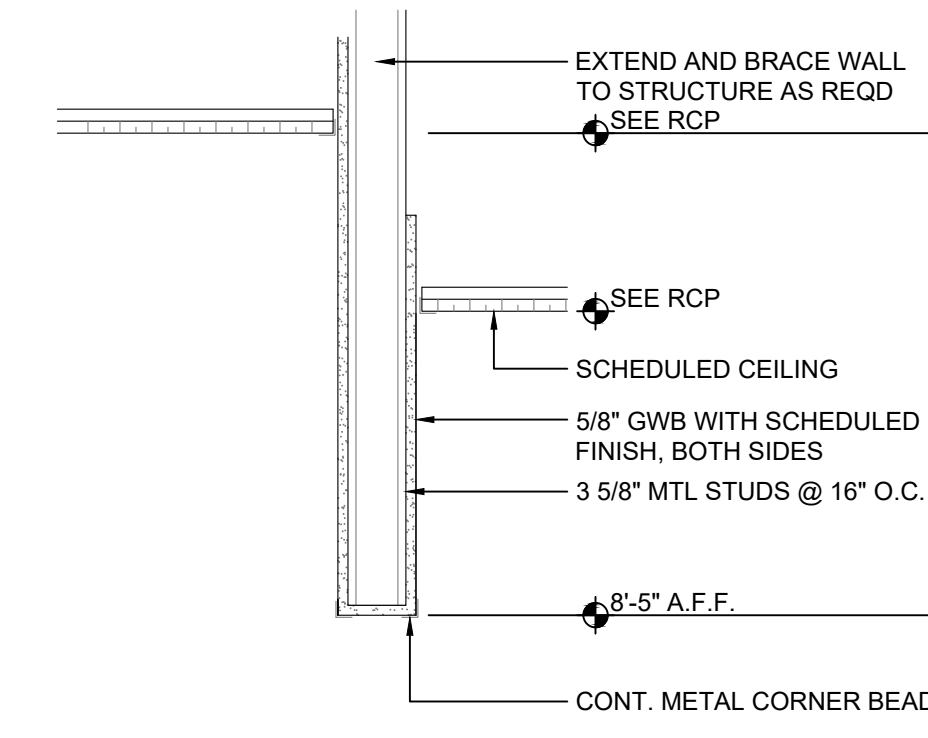
SOFFIT DETAIL - COOLER SCALE N.T.S. **8**



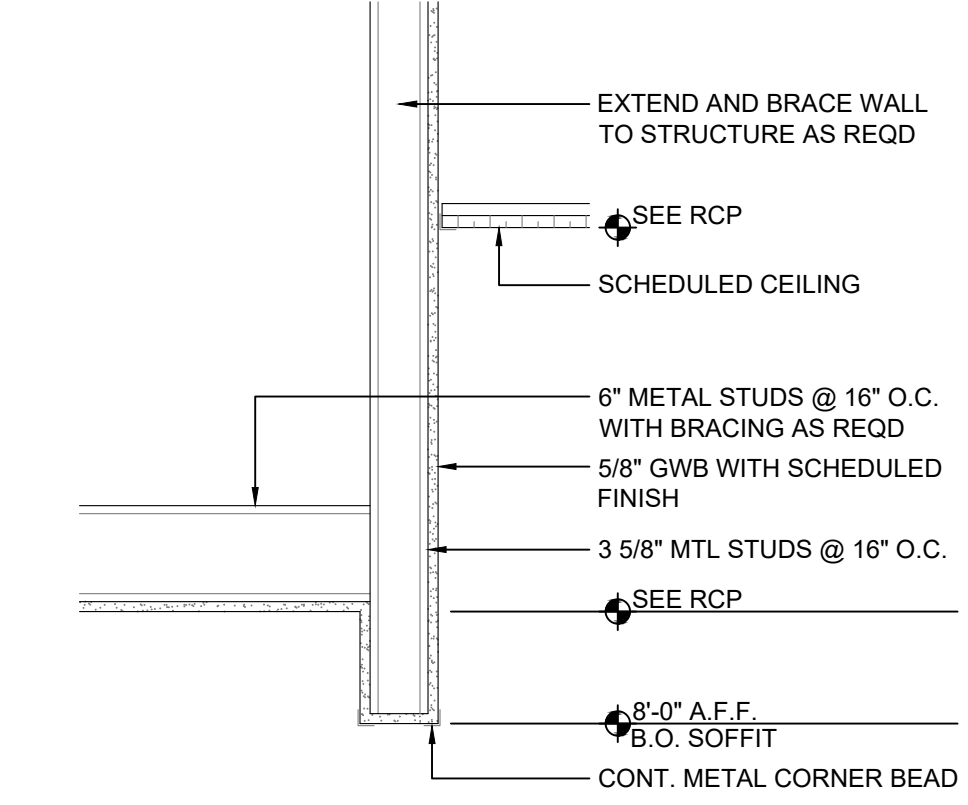
COOLER WALL TRANSITION SCALE N.T.S. **7**



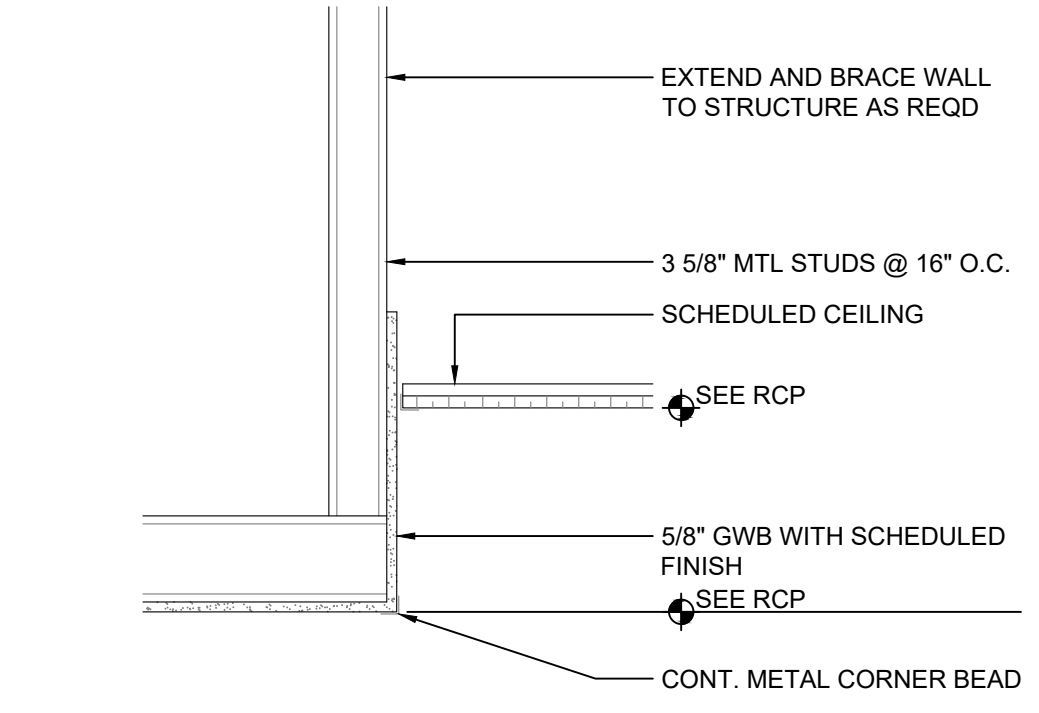
SOFFIT DETAIL - LOTTO SCALE N.T.S. **6**



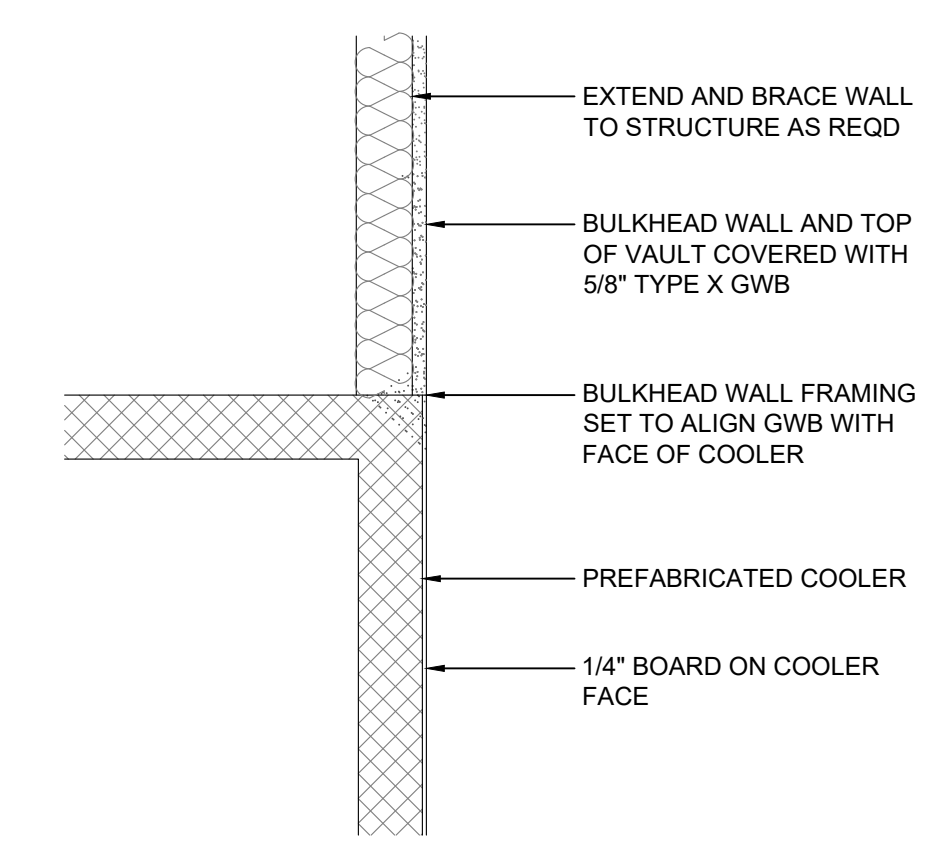
SOFFIT DETAIL - HALLWAY SCALE N.T.S. **5**



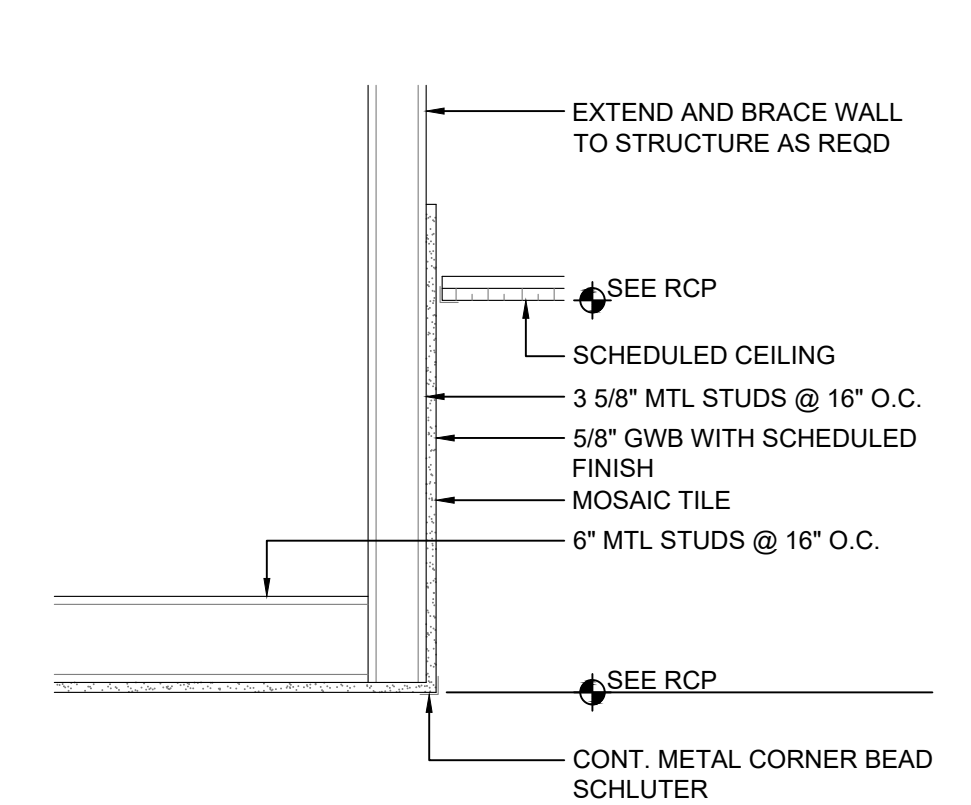
SOFFIT DET. - RESTROOM SCALE N.T.S. **4**



SOFFIT DETAIL SCALE N.T.S. **3**



SOFFIT DETAIL - COOLER SCALE N.T.S. **2**



SOFFIT DETAIL - CASHIER SCALE N.T.S. **1**

No.	Revision/Issue	Date
1	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL
 Sheet Title
PARTITION TYPES AND CONSTRUCTION DETAILS

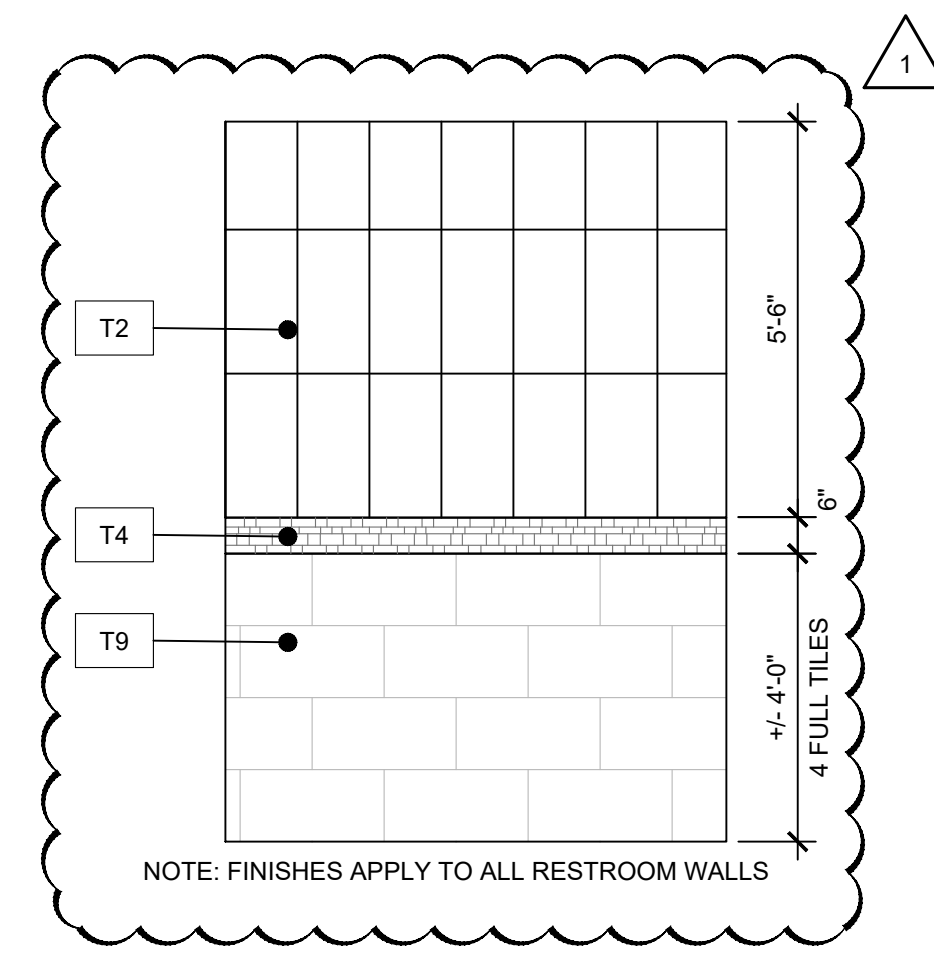
Project No. 170-95.00
 Drawn By: KM
 Checked By: AFO
 Sheet
A9.1

Date

RESTROOM FIXTURE AND ACCESSORY SCHEDULE

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	FURNISHED BY	INSTALLED BY	NOTES
01	A - GRAB BAR 42"	BOBRICK	B-6806 X 42	G.C.	G.C.	1-1/2" DIAMETER
	B - GRAB BAR 36"	BOBRICK	B-6806 X 36	G.C.	G.C.	1-1/2" DIAMETER
	C - GRAB BAR 24"	BOBRICK	B-6806 X 24	G.C.	G.C.	1-1/2" DIAMETER
02	TOILET TISSUE DISP. DOUBLE, SURFACE MOUNTED	KIMBERLY-CLARK	09507	OWNER	G.C.	
03	HAND DRYER	WORLD DRYER	VERDeDri Q-973A	G.C.	G.C.	SURFACE MOUNT. VERIFY WITH OWNER FOR SOLID SURFACE FINISH BEHIND DRYER.
04	A - MIRROR ANGLE FRAME	BOBRICK	B-165 2448	G.C.	G.C.	40" MAX TO BOTTOM OF REFLECTIVE SURFACE
	B - MIRROR ANGLE FRAME	BOBRICK	B-165 1836	G.C.	G.C.	40" MAX TO BOTTOM OF REFLECTIVE SURFACE
05	SOAP DISPENSER, WALL MOUNTED	SCOTT	92145	OWNER	G.C.	OBSTRUCTED REACH: 44" MAX TO THE HIGHEST OPERABLE SURFACE UNOBSTRUCTED REACH: 48" MAX TO THE HIGHEST OPERABLE SURFACE
06	A - SURFACE MOUNT BABY CHANGER	KOALA KARE	KB300-SS	G.C.	G.C.	
	B - RECESSED BABY CHANGER	KOALA KARE	KB310-SSRE	G.C.	G.C.	WHITE GRANITE
07	LAVATORY - 2 BAY	SLOAN	ELS-72000	G.C.	G.C.	SOLID STONE: WALNUT
08	AUTOMATED SENSOR FAUCET	KOHLER	K-13462	G.C.	G.C.	FINISH: POLISHED CHROME. ELECTRIC SENSOR AND MIXER.
09	URINAL	AMERICAN STANDARD	6590001.020	G.C.	G.C.	
10	FLUSH VALVE	SLOAN	ECOS 186 1.0	G.C.	G.C.	SENSOR HARDWIRED WATER CLOSET FLUSHOMETER
11	TOILET	AMERICAN STANDARD	3043.001.020	G.C.	G.C.	FLOOR MOUNT
12	FLUSH VALVE	SLOAN	ECOS 111 1.6/1.1	G.C.	G.C.	SENSOR HARDWIRED OPERATION FLUSH VALVE
13	TOILET SEAT	MAINLINE	ML 1055SSC000	G.C.	G.C.	WHITE ELONGATED OPEN FRONT SEAT
14	COAT HOOK	BOBRICK	B-233	G.C.	G.C.	MOUNT ON INSIDE OF EACH STALL DOOR AT 48" MAX. AFF.
15	PAPER TOWEL DISPENSER	KIMBERLY-CLARK	09996	OWNER	G.C.	SCOTT SLIMFOLD TOWEL DISPENSER
16	SURFACE MOUNT SANITARY SEAT COVER DISPENSER	SCOTT	09506	OWNER	G.C.	
17	TRASH CAN	-	18" X 36"	OWNER	G.C.	PLACE UNDER PAPER TOWEL DISPENSER IN MEN'S RESTROOM
18	ACCESSIBLE RESTROOM SIGNAGE	COMPLIANCE SIGNS	RRE-130_150_PAIRSDS ET_WHITE_ON_BLACK	G.C.	G.C.	NON-GLARE MATTIE FINISH, COMPLIANT FONT AND TACTILE 1/32" LETTERS AND SYMBOLS. SEE 1/AN2.0 FOR MORE INFORMATION.
19	WALL MOUNTED SINK	KOHLER	SOHO K 2084	G.C.	G.C.	WHITE. 301PC P-TRAP, TRUEBRO LAV GUARD
20	FAUCET	KOHLER	K-16027-4-CP	G.C.	G.C.	FINISH: POLISHED CHROME.

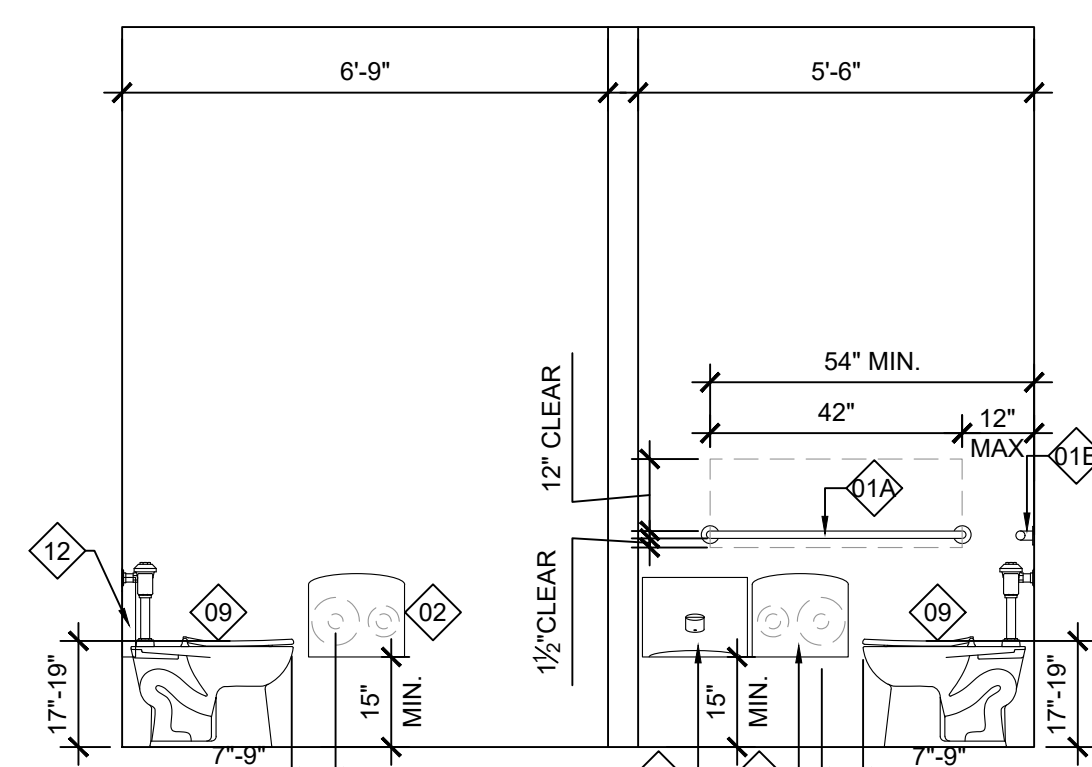
NOTE: SEE 7/A10.0 FOR TYPICAL RESTROOM WALL FINISHES.
REFERENCE AN2.0 FOR ADA DETAILS AND MOUNTING HEIGHTS



RESTROOM WALL FINISHES

SCALE 3/8"=1'-0"

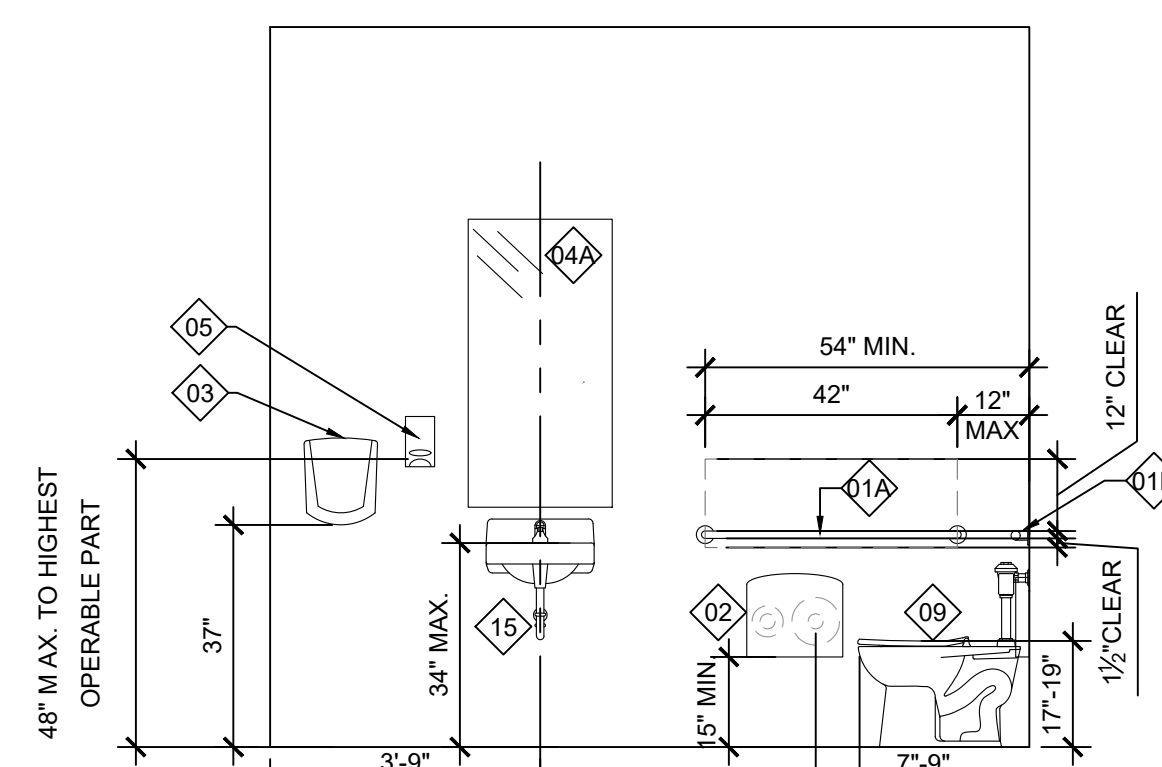
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INTERIOR ELEVATION

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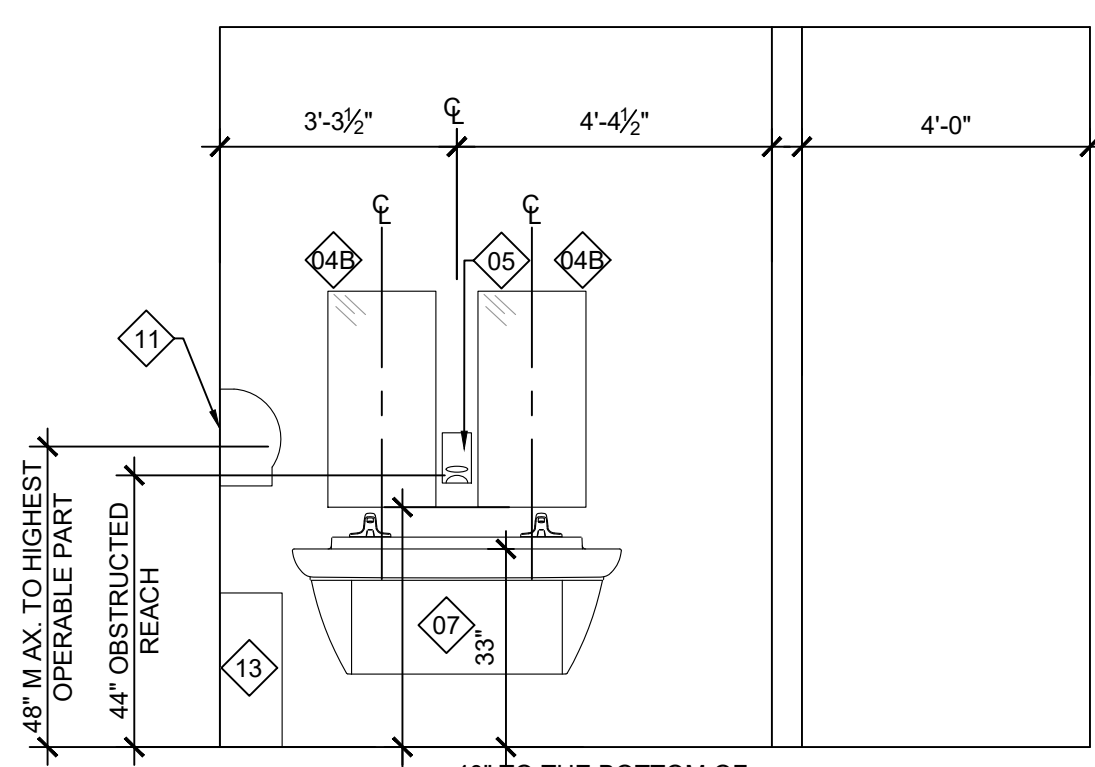
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INTERIOR ELEVATION

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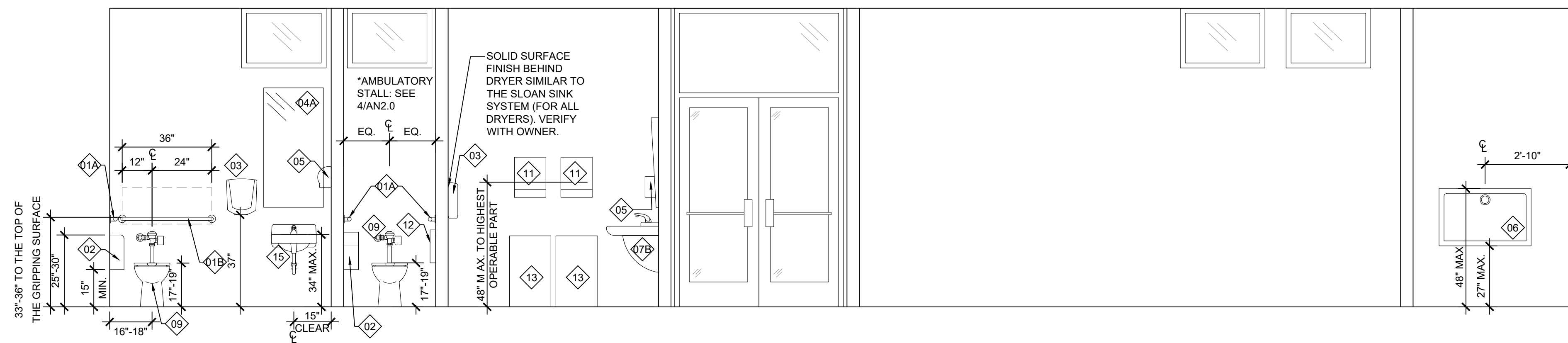
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INTERIOR ELEVATION

SCALE 3/8"=1'-0"

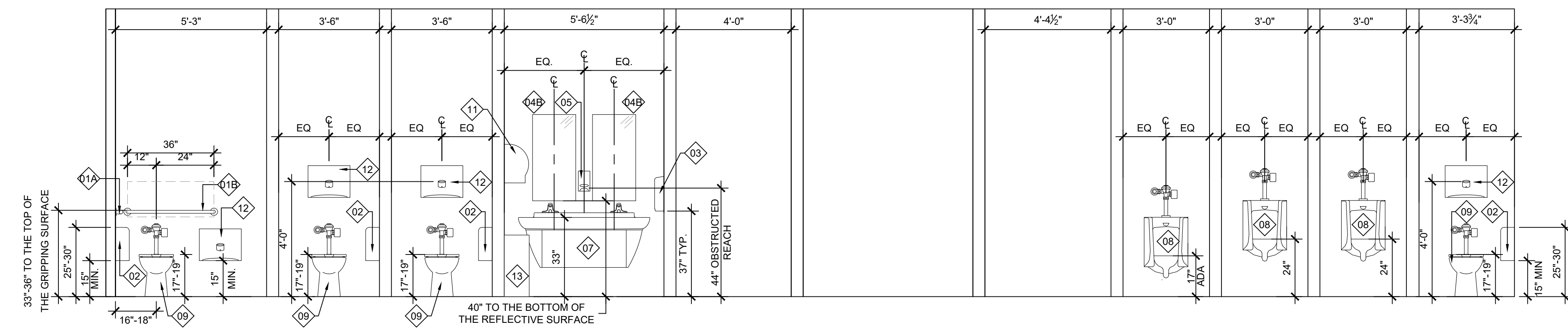
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INTERIOR ELEVATION

SCALE 3/8"=1'-0"

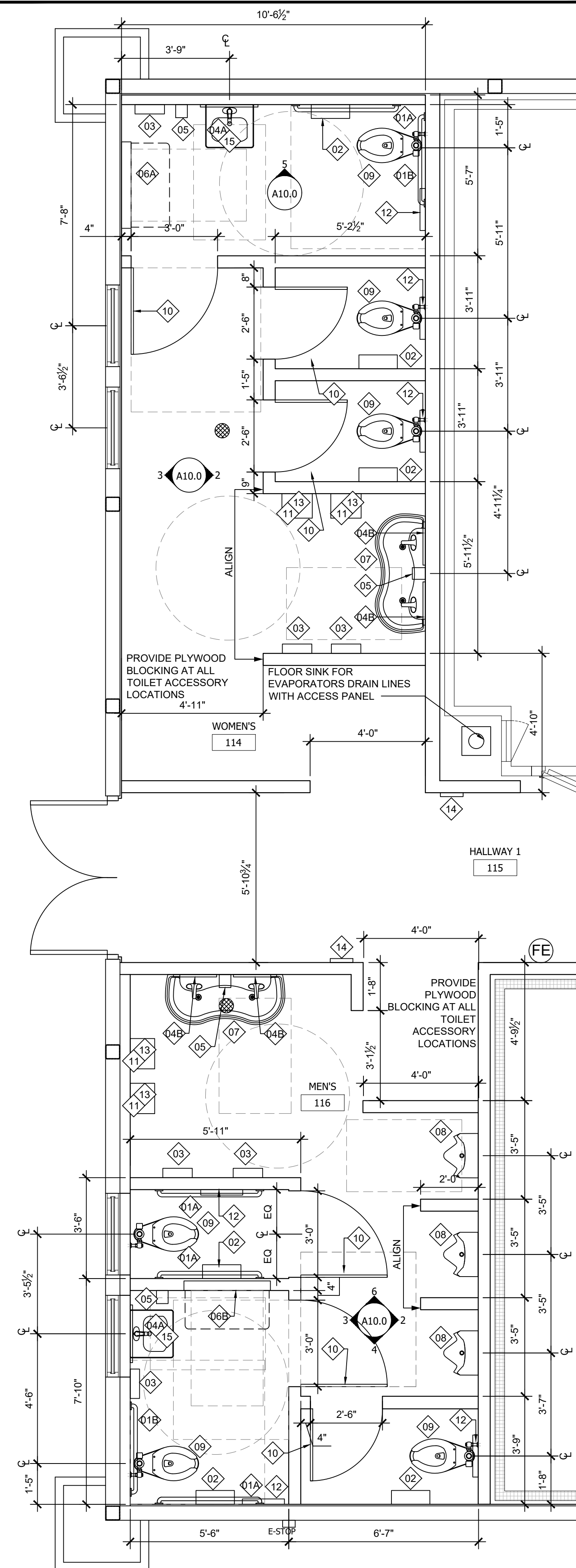
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INTERIOR ELEVATION

SCALE 3/8"=1'-0"

2



ENLARGED RESTROOM PLAN

SCALE 3/8"=1'-0"

1

No.	Revision/Issue	Date
1	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
2	ISSUE FOR PERMIT	03/12/2023

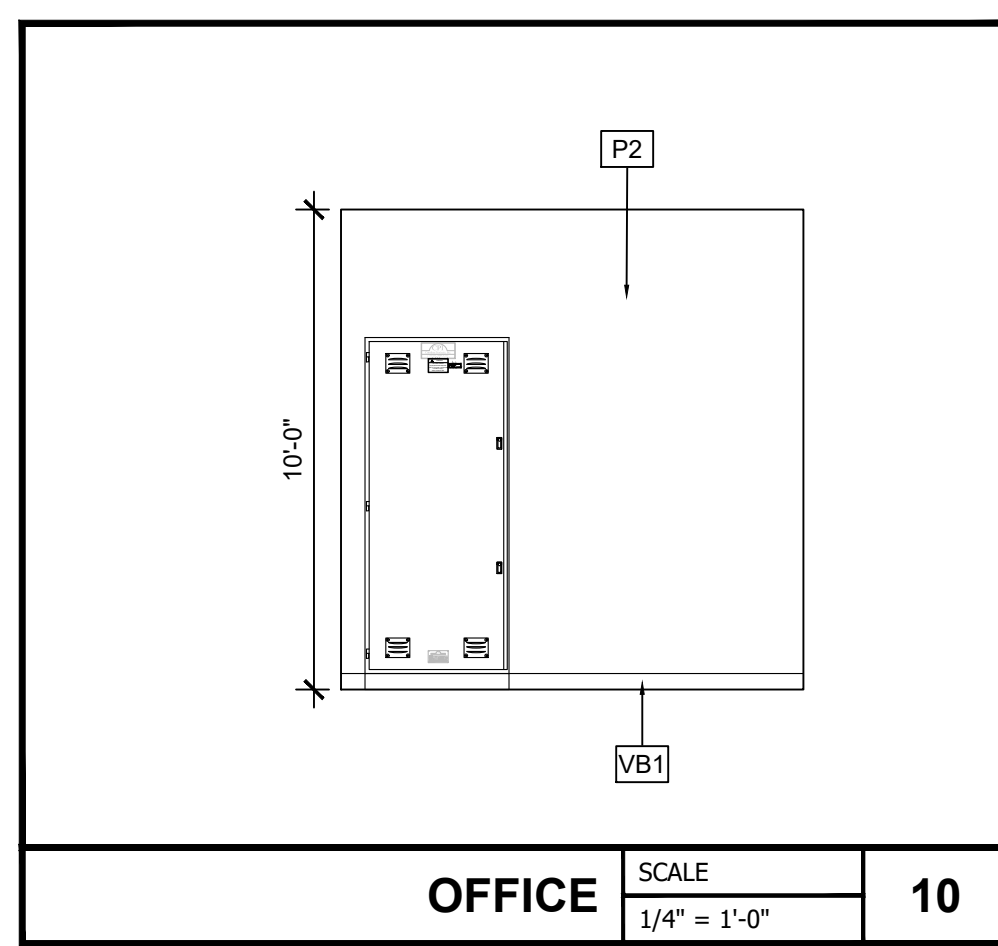
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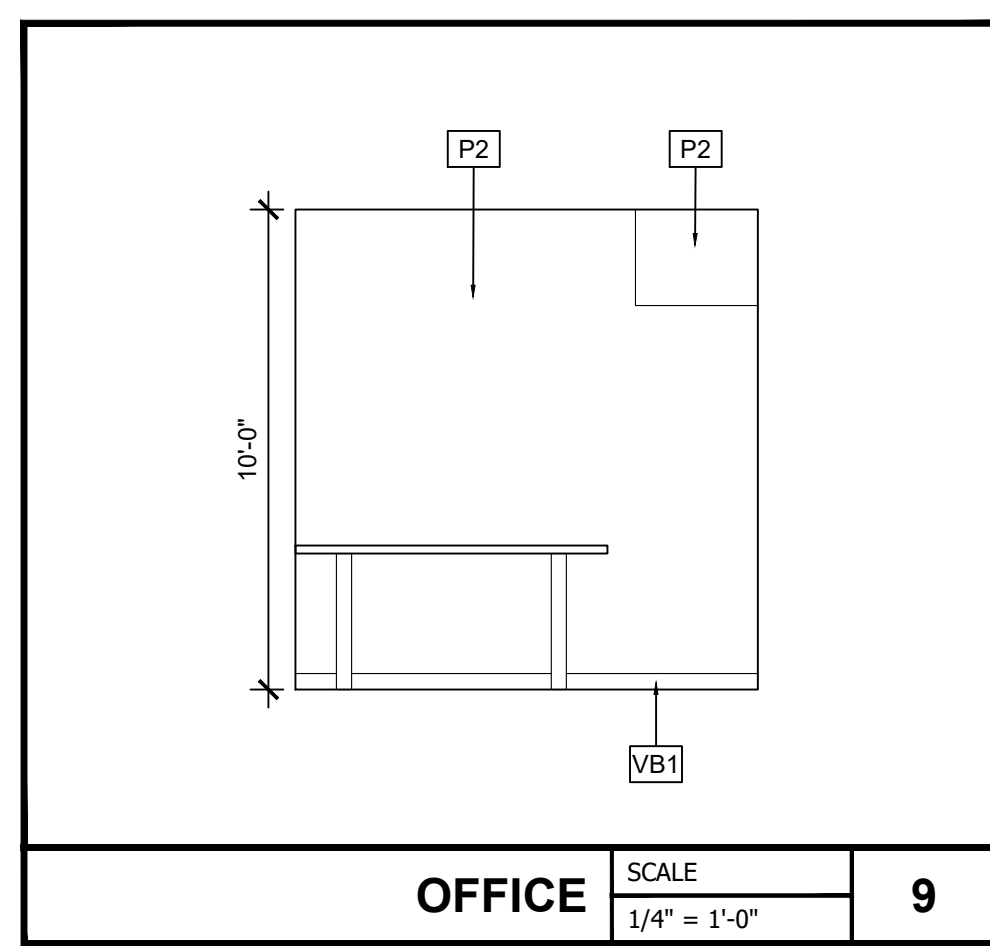
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
ENLARGED RESTROOM PLAN AND ELEVATIONS

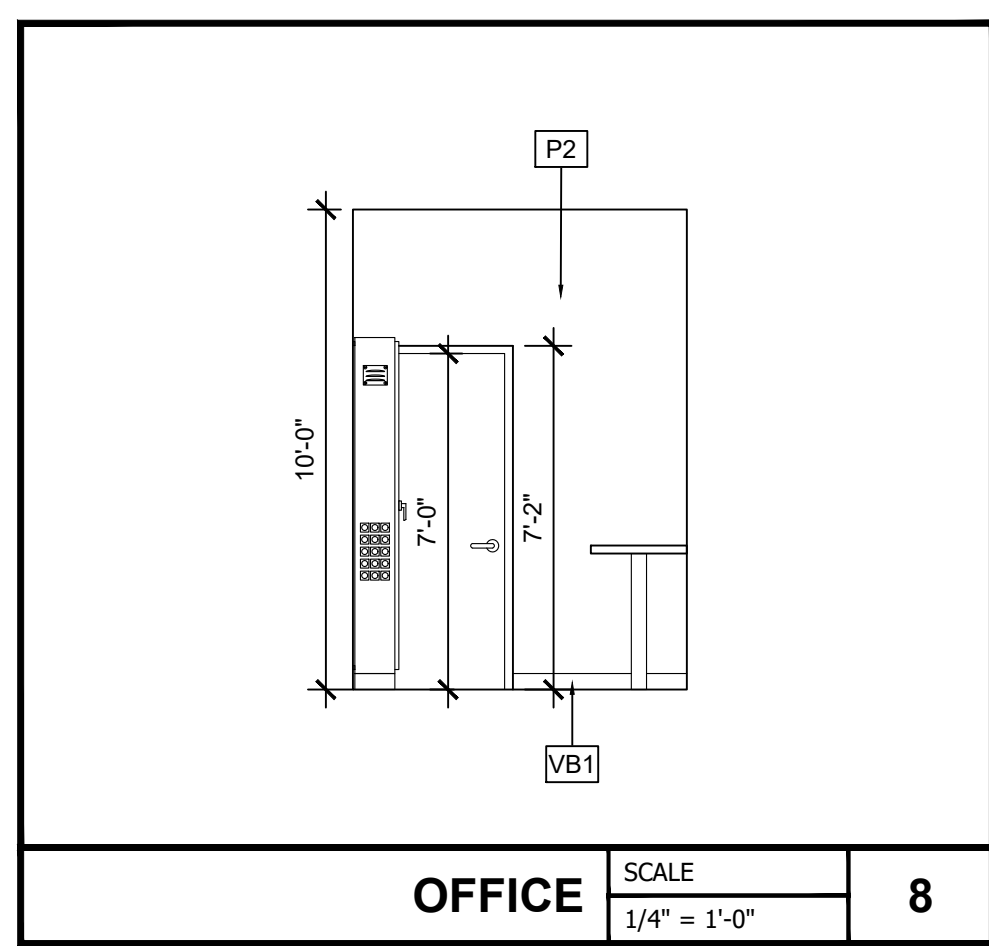
Project No. 170-95.00	Sheet
Drawn By: KM	A10.0
Checked By: AFC	



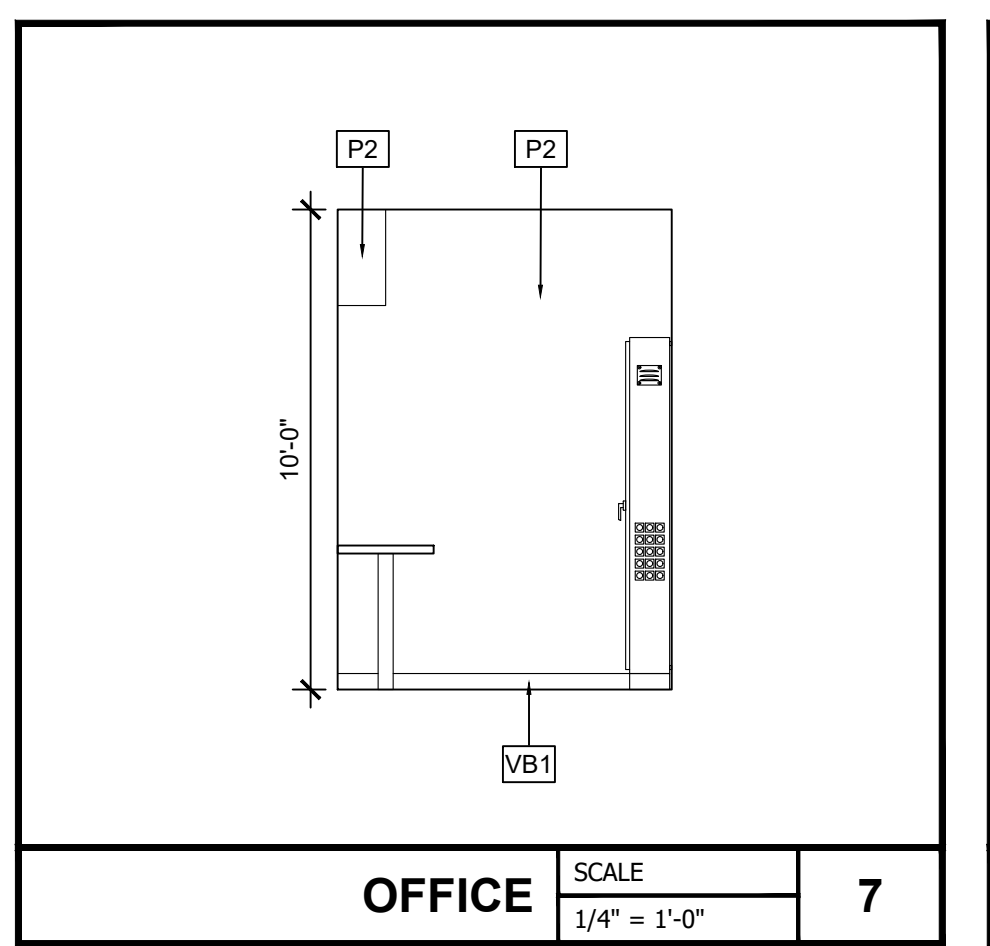
OFFICE SCALE 1/4" = 1'-0" **10**



OFFICE SCALE 1/4" = 1'-0" **9**



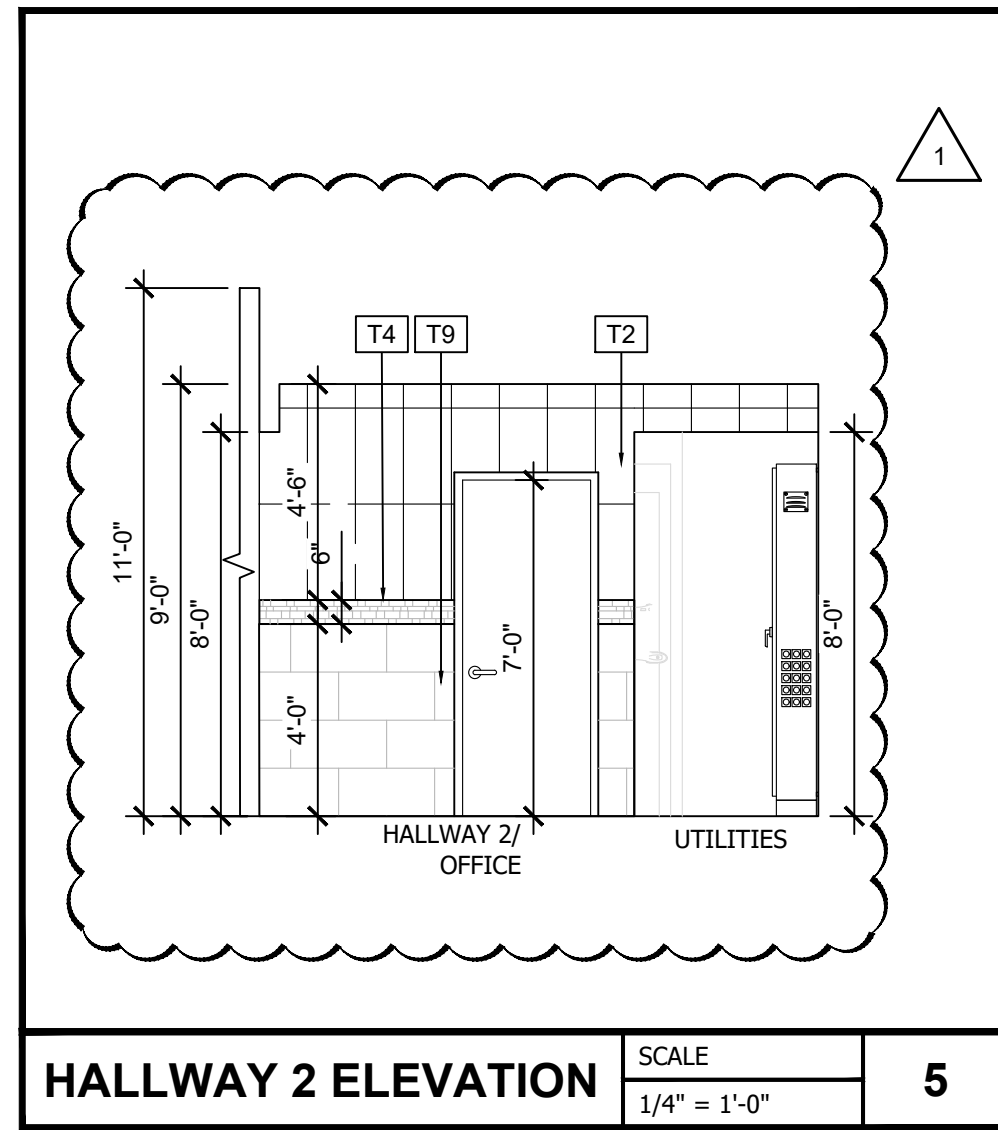
OFFICE SCALE 1/4" = 1'-0" **8**



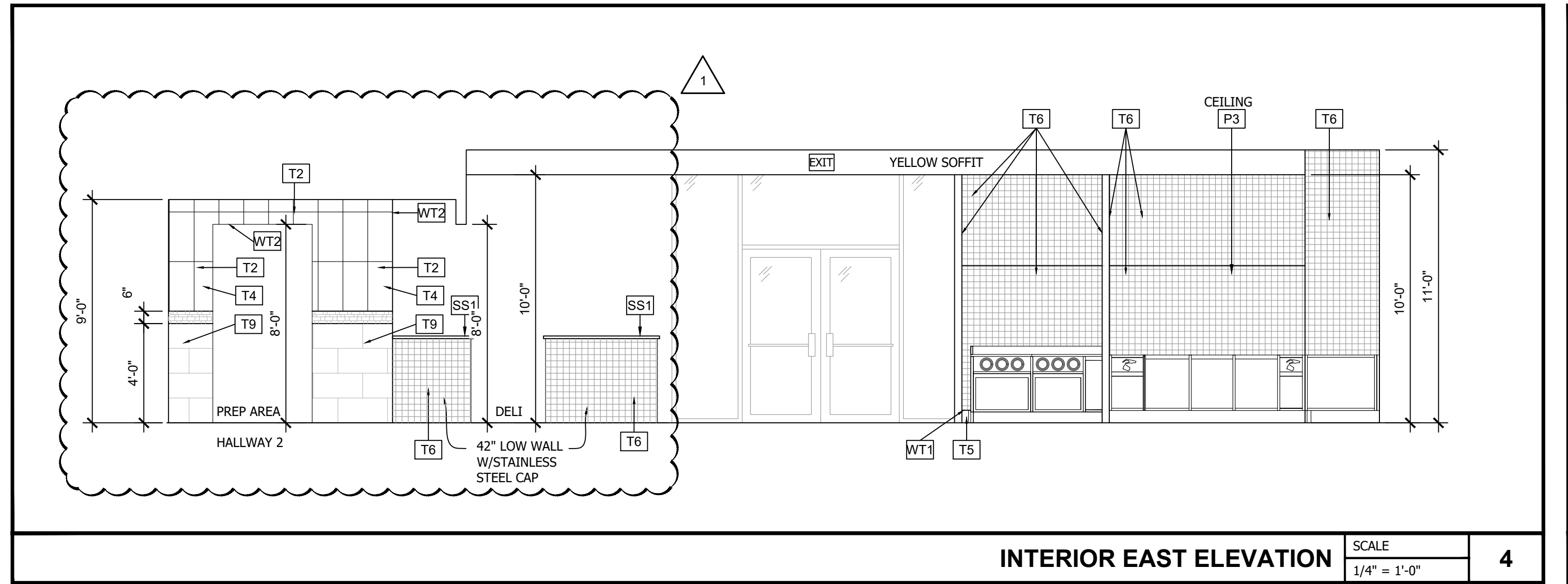
OFFICE SCALE 1/4" = 1'-0" **7**



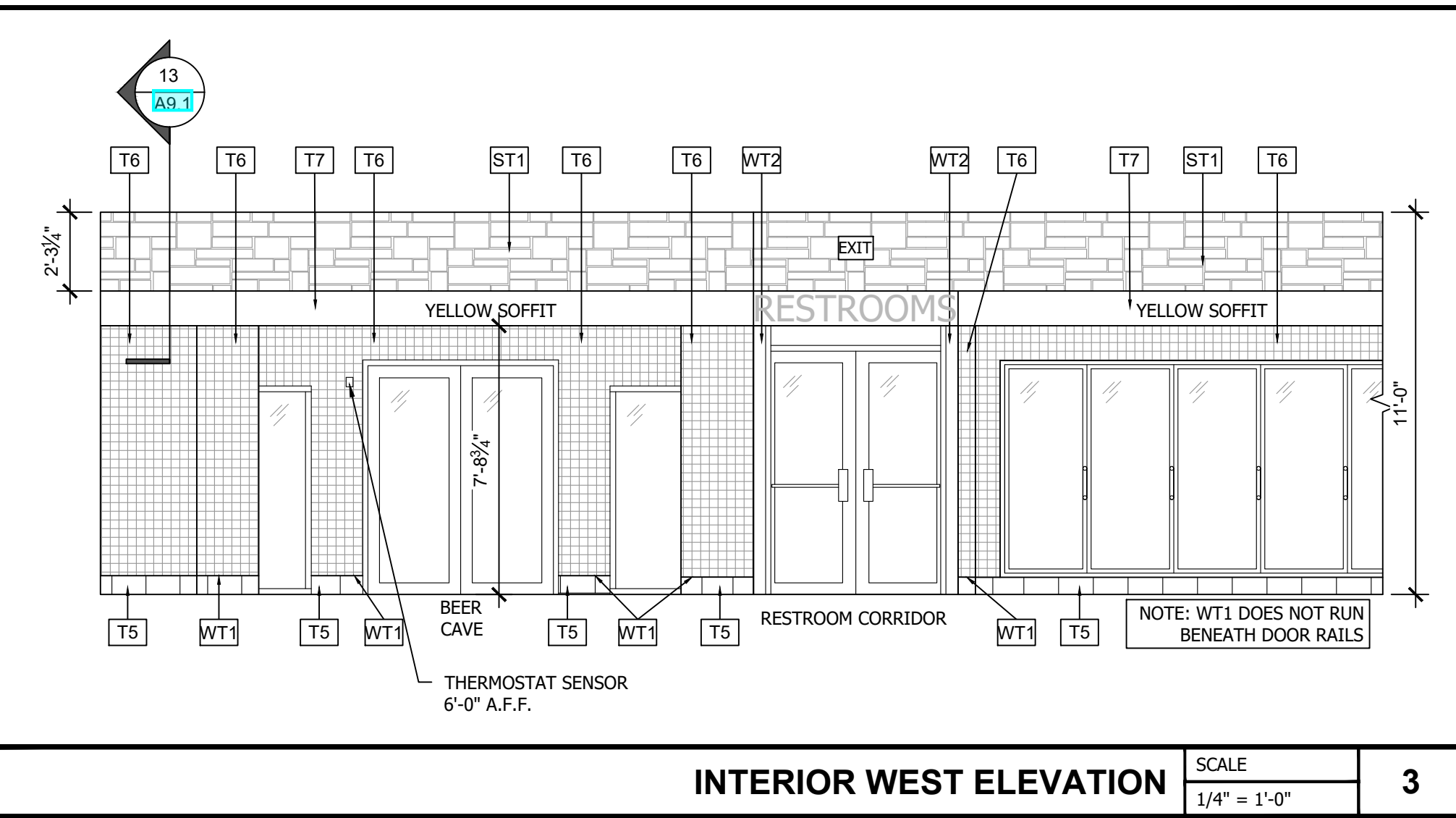
BEER CAVE SIGNAGE SCALE N.T.S. **6**



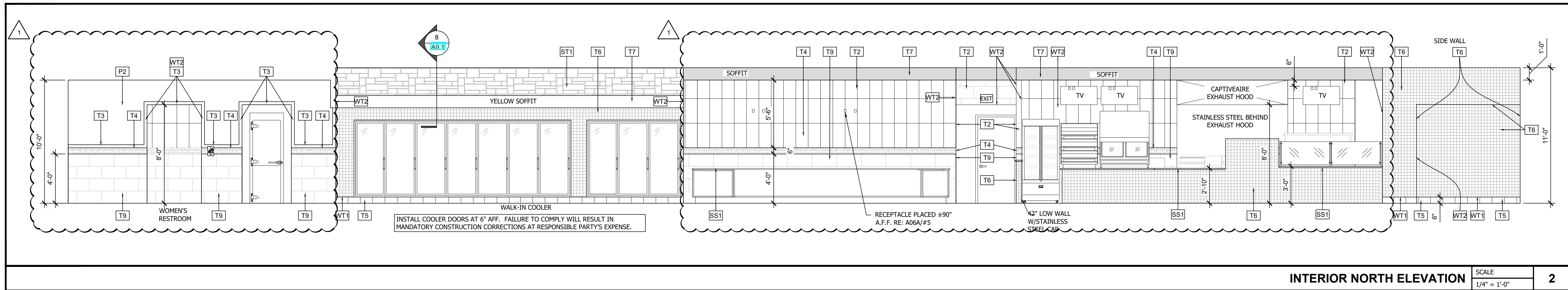
HALLWAY 2 ELEVATION SCALE 1/4" = 1'-0" **5**



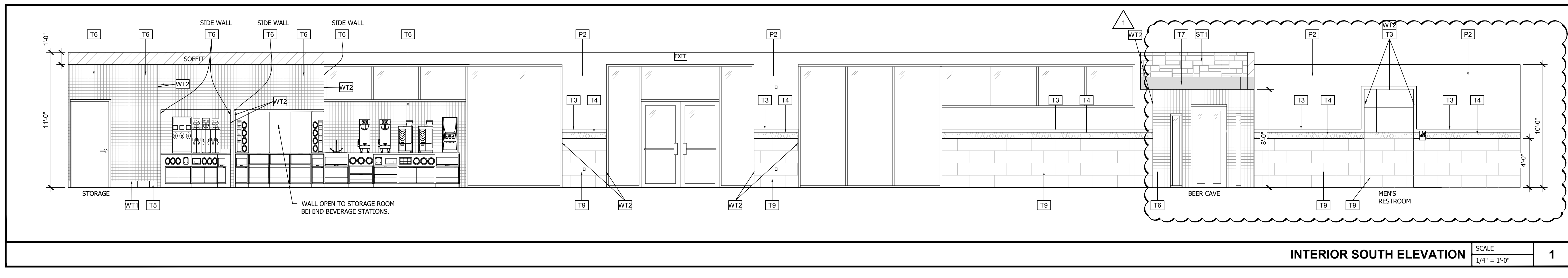
INTERIOR EAST ELEVATION SCALE 1/4" = 1'-0" **4**



INTERIOR WEST ELEVATION SCALE 1/4" = 1'-0" **3**



INTERIOR NORTH ELEVATION SCALE 1/4" = 1'-0" **2**



INTERIOR SOUTH ELEVATION SCALE 1/4" = 1'-0" **1**

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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

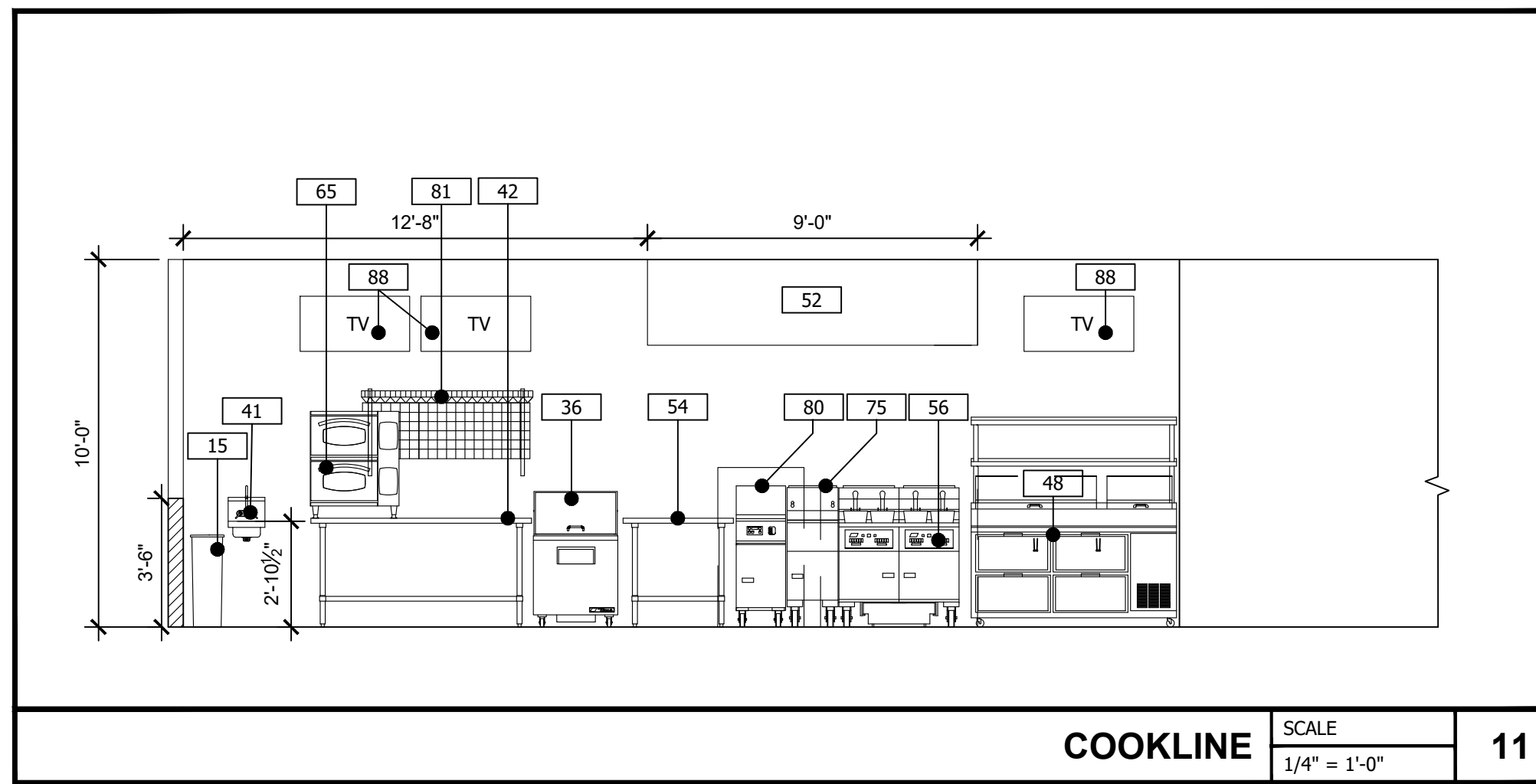
Sheet Title
INTERIOR ELEVATIONS

Project No. 170-95.00
 Drawn By: KM
 Checked By: AFO

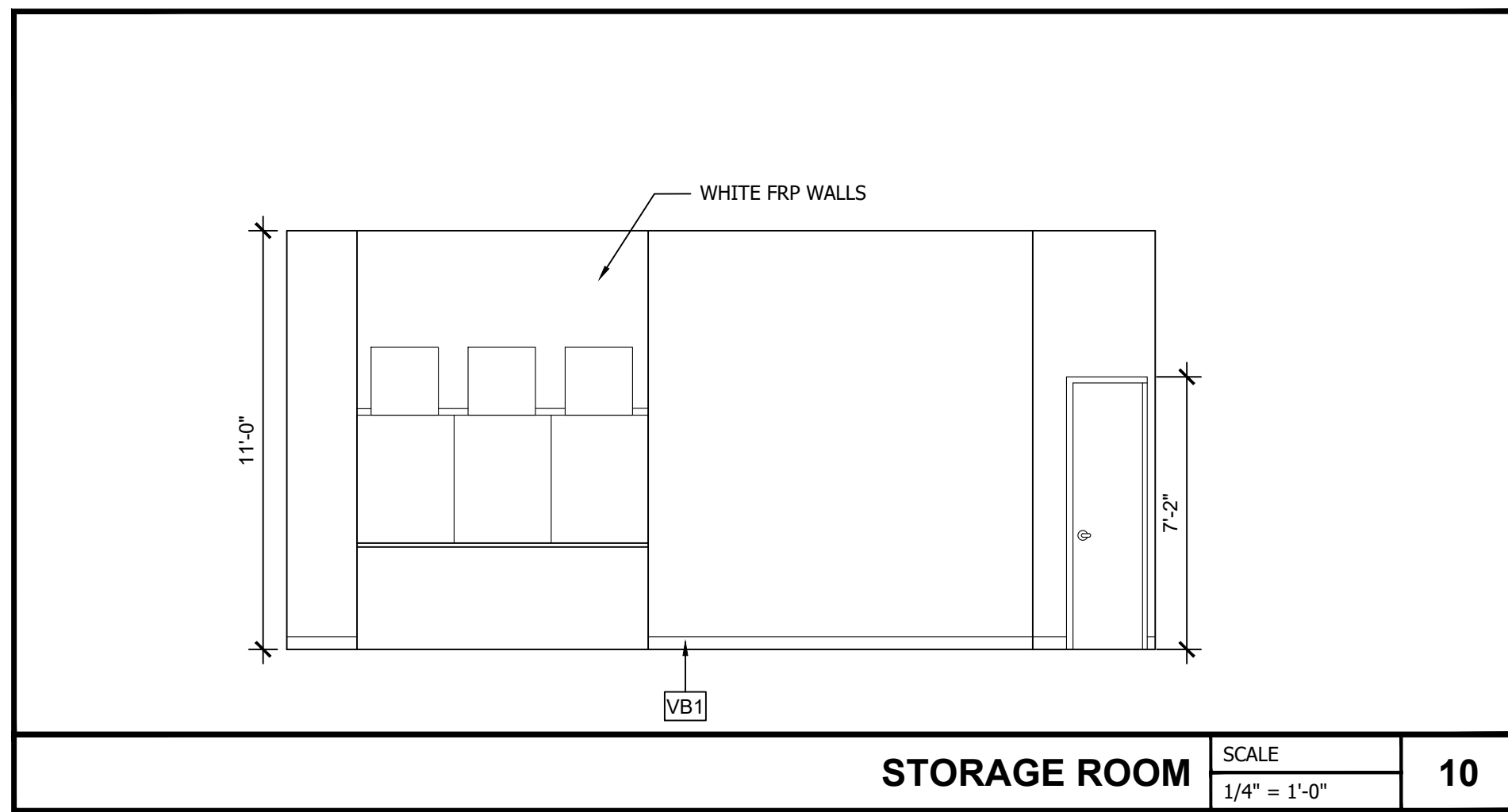
Sheet
A11.0

EQUIPMENT SCHEDULE

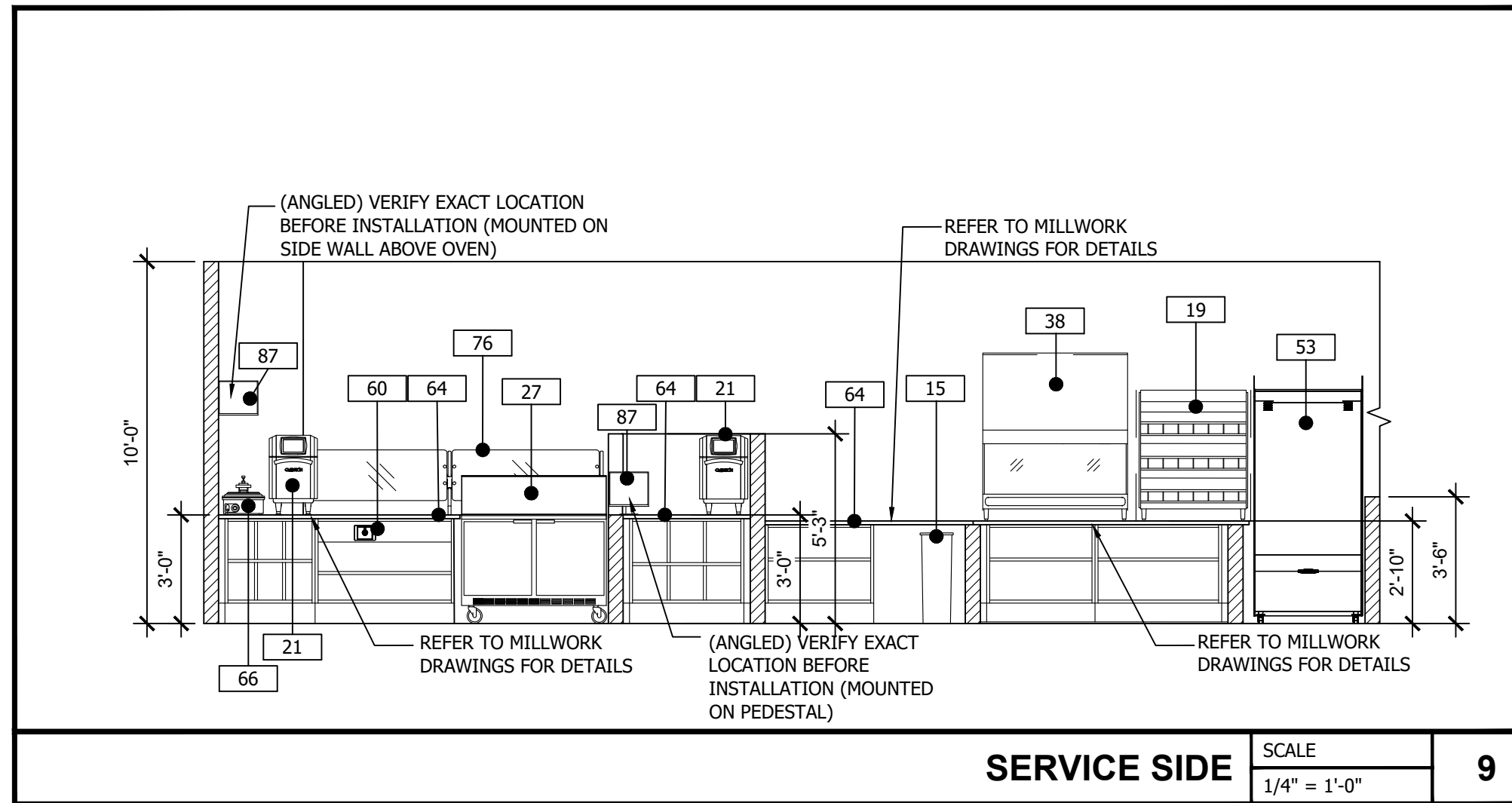
ITEM NO.	QTY.	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER
15	2	TRASH RECEPTACLE	RUBBERMAID	FG354060BLA
19	1	HEATED DISPLAY CASE (COUNTERTOP)	HATCO	GRSD5-36T
21	2	RAPID COOK OVEN	OVENTION	MISA-A12
27	1	PIZZA PREPARATION REFRIGERATOR	TRAUlsen	TB046SL3S
30	1	MOP SINK	ADVANCE TABCO	9-OP-24FM-SSR
31	1	POT & PAN WASHER	POWERSOAK	CUSTOM
35	2	CUSTOMER KIOSK	BY OWNER	CUSTOM
36	1	SANDWICH/SALAD PREP REF.	BEVERAGE-AIR	SPE27HC-12M-B
38	1	HEATED DISPLAY CASE (COUNTERTOP)	ALTO-SHAAM	ED2-48-SS
41	2	HAND SINK	ADVANCE TABCO	7-PS-EC-SP-1X
42	1	WORK TABLE	ADVANCE TABCO	SS-366
43	1	BOHA TERMINAL	TRANSACT	
45	1	WORK TABLE	ADVANCE TABCO	KMSLAG-306-X
48	1	REF. PIZZA PREP.	BEVERAGE-AIR	DPD67HC-4
51	6	WIRE SHELVING UNIT	CENTAUR	C2160K
52	1	TYPE-1 9' HOOD WITH SUPPRESSION SYSTEM. (STAINLESS STEEL PANELS TO BE PROVIDED BY G.C.)	CAPTIVE AIRE	5424ND-2-ACPSP-F
53	1	HEATED DISPLAY CASE	ALTO-SHAAM	HSM-36/55/T
54	1	36"X36" STAINLESS WORK TABLE		
56	1	DUAL FRYER	PITCO	SSH75-2FD
60	1	DROP-IN HOT WELLS	ALTO-SHAAM	300-HW/D6
64	3	FRONT COUNTER MILLWORK	SHOPCO	CUSTOM
65	1	CONVECTION OVEN	OVENTION	DOUBLE MILO2-16
66	1	SANDWICH PRESS	VOLLRATH	40792
75	1	FRYER DUMP STATION	PITCO	SE-BNB-14
76	1	GLASS SNEEZE GUARD		
77	1	DROP-IN REFRIGERATION	APW WYOTT	CW-1
80	1	RETHERMALIZING UNIT	PITCO	SRTE14-GM
81	1	WALL GRID SHELVING	METRO	SW56K4
82	2	WALL GRID SHELVING	METRO	VARIES
83	1	WALL GRID SHELVING	METRO	SWK36-1
84	1	SERVICE SINK FAUCET	ADVANCE TABCO	K-240
85	1	UTILITY SHELF	ADVANCE TABCO	K-245
86	2	MOP BROOM HOLDER	CARLISLE	4073100
87	2	22" KDS MONITOR	DELL	E2216HV
88	4	TV SCREEN		



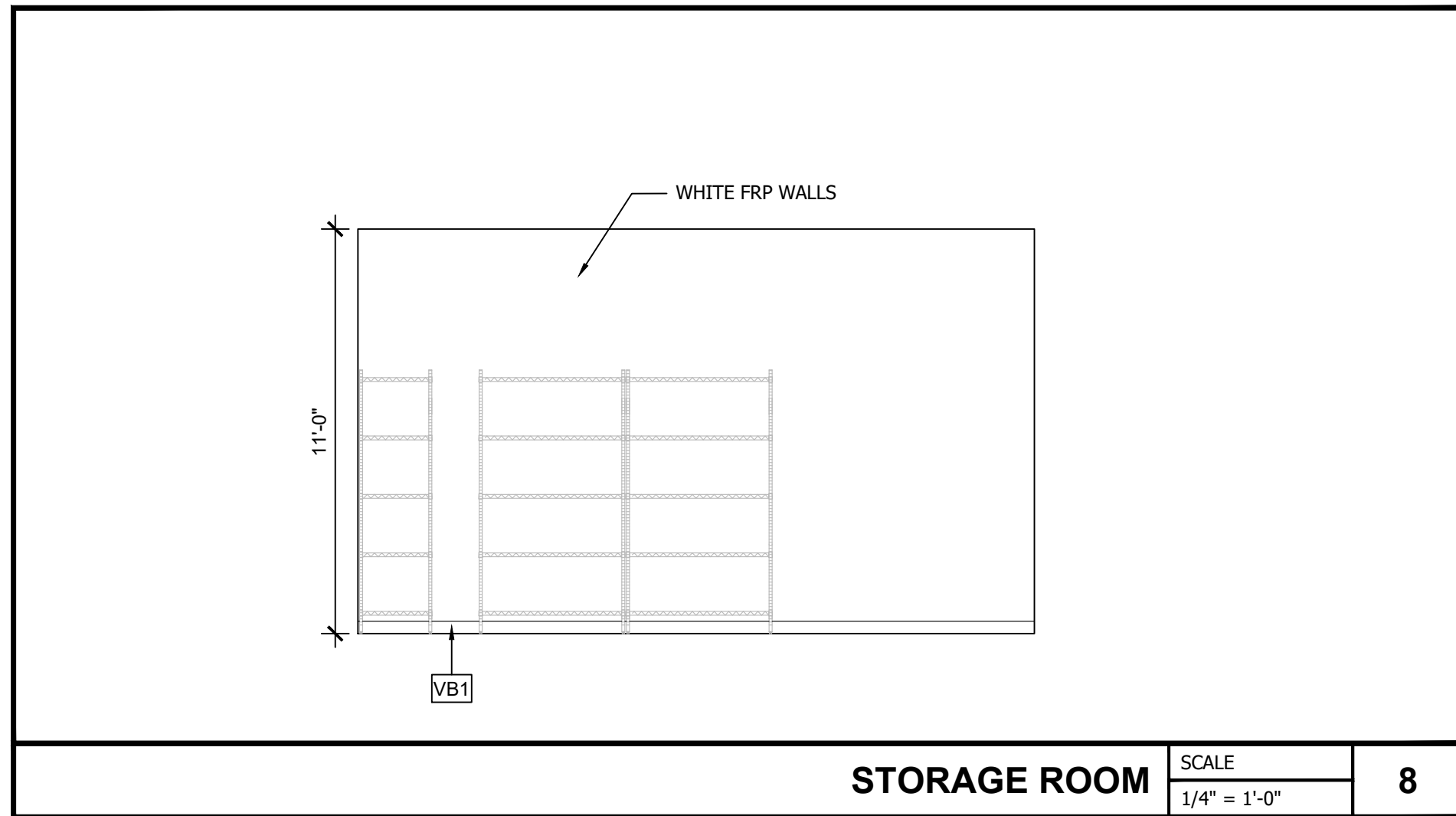
COOKLINE SCALE 1/4" = 1'-0" **11**



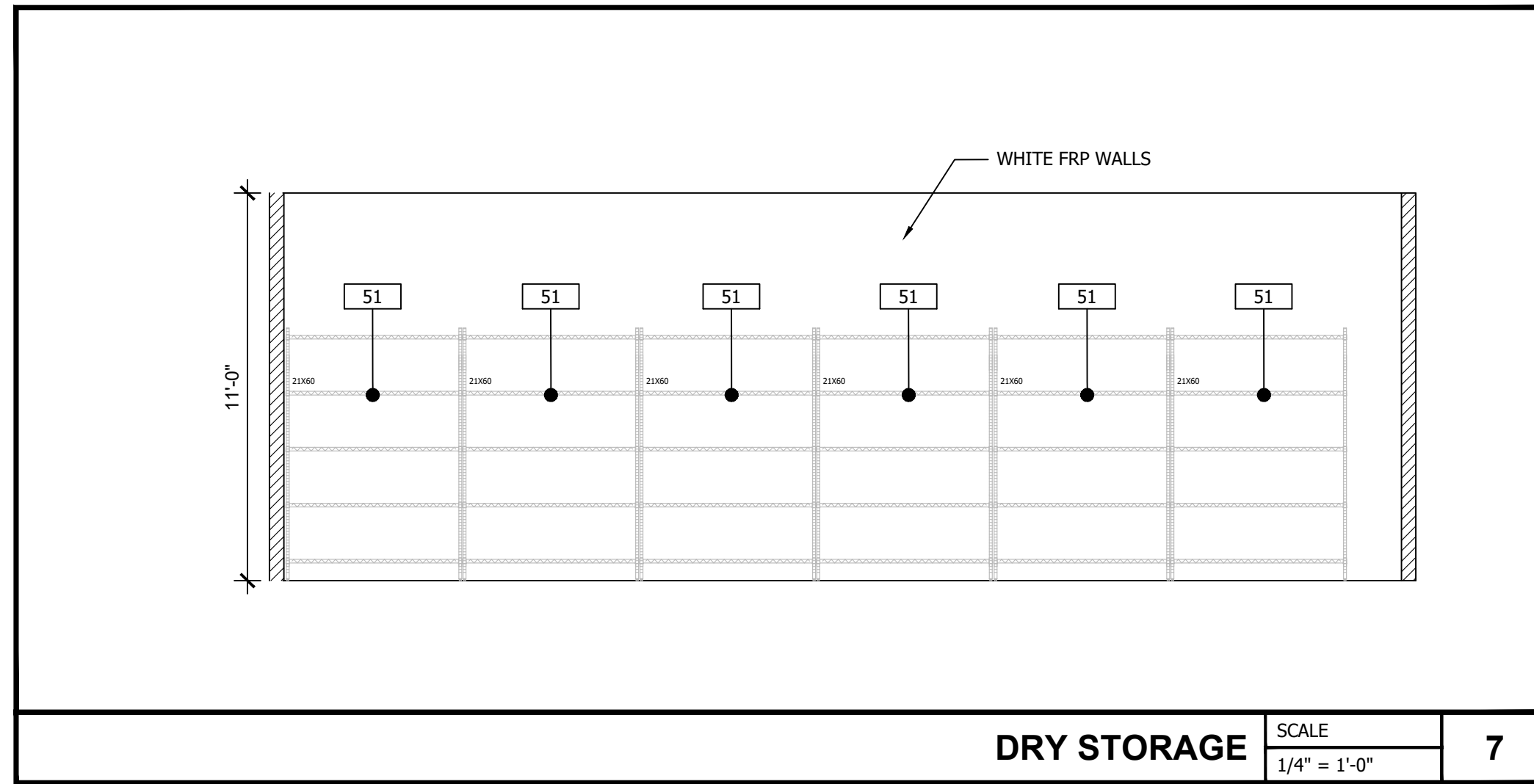
STORAGE ROOM SCALE 1/4" = 1'-0" **10**



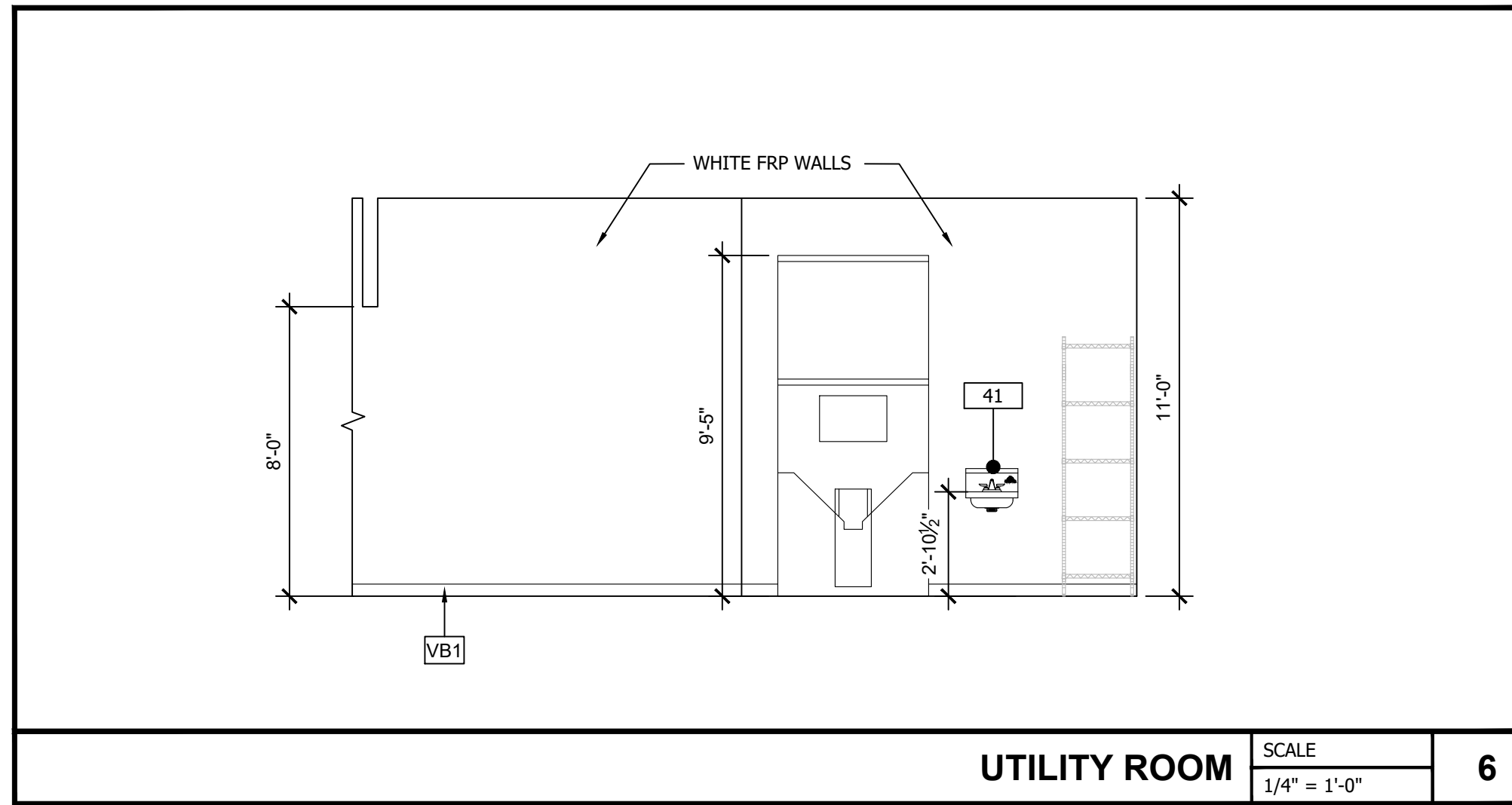
SERVICE SIDE SCALE 1/4" = 1'-0" **9**



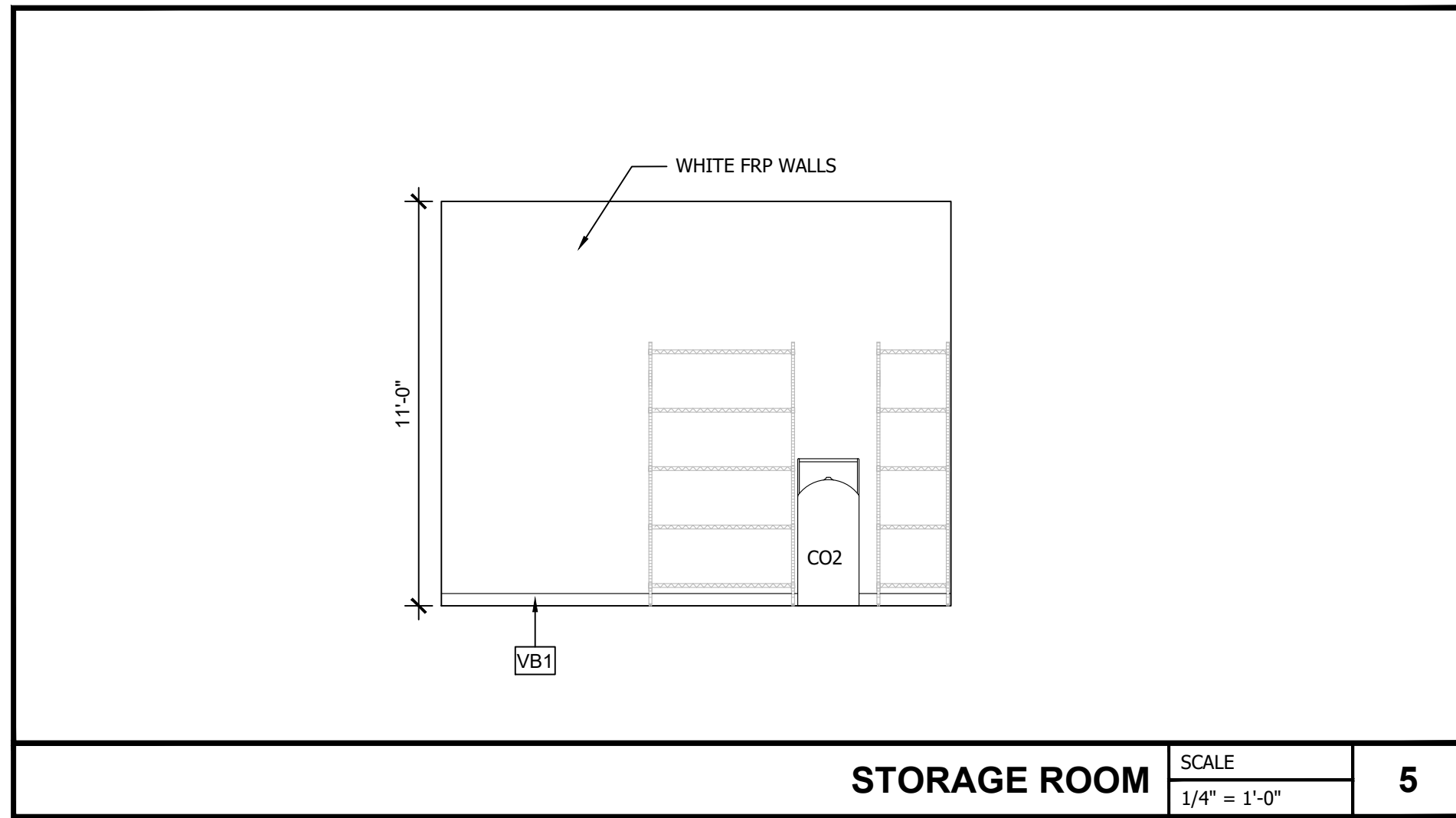
STORAGE ROOM SCALE 1/4" = 1'-0" **8**



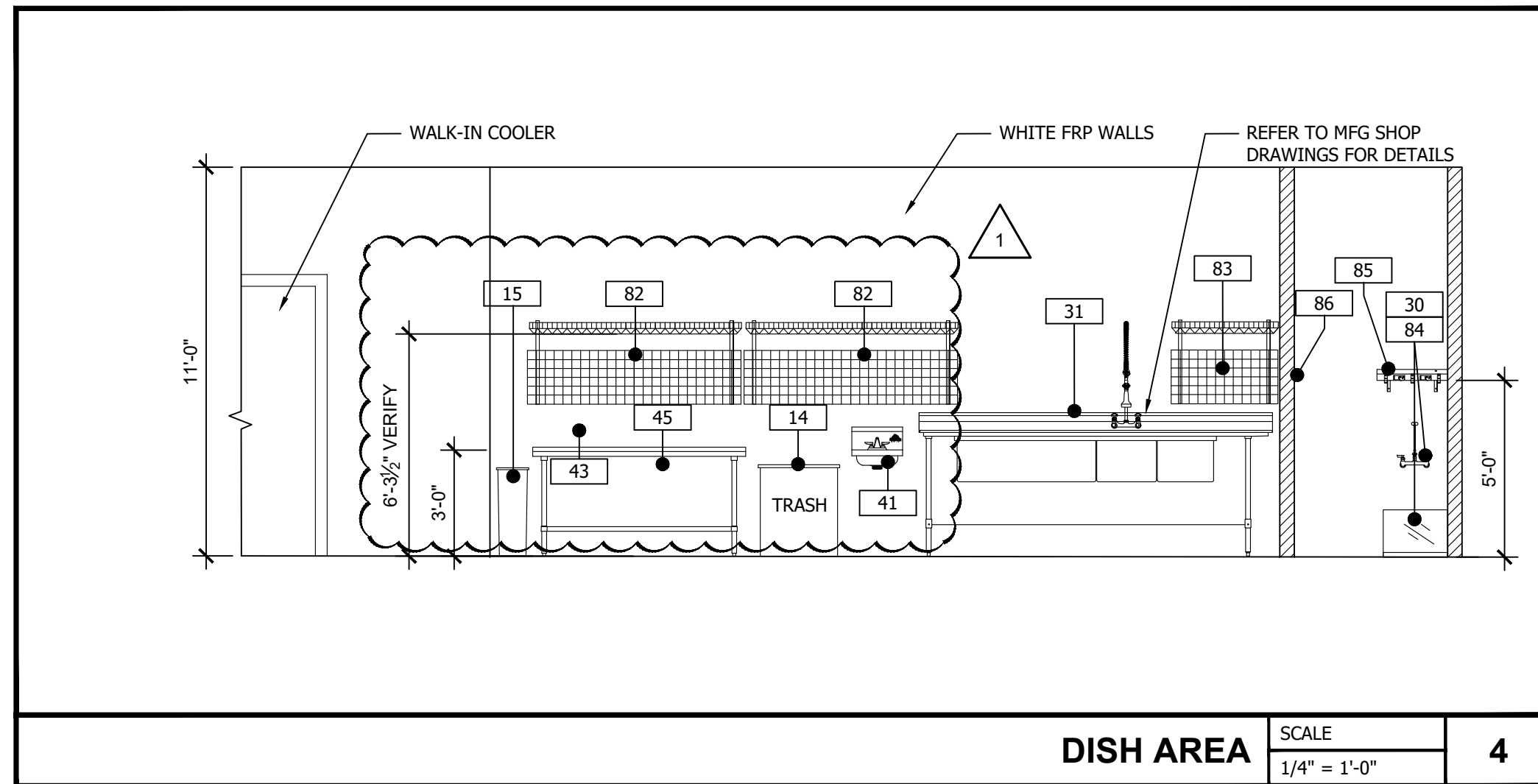
DRY STORAGE SCALE 1/4" = 1'-0" **7**



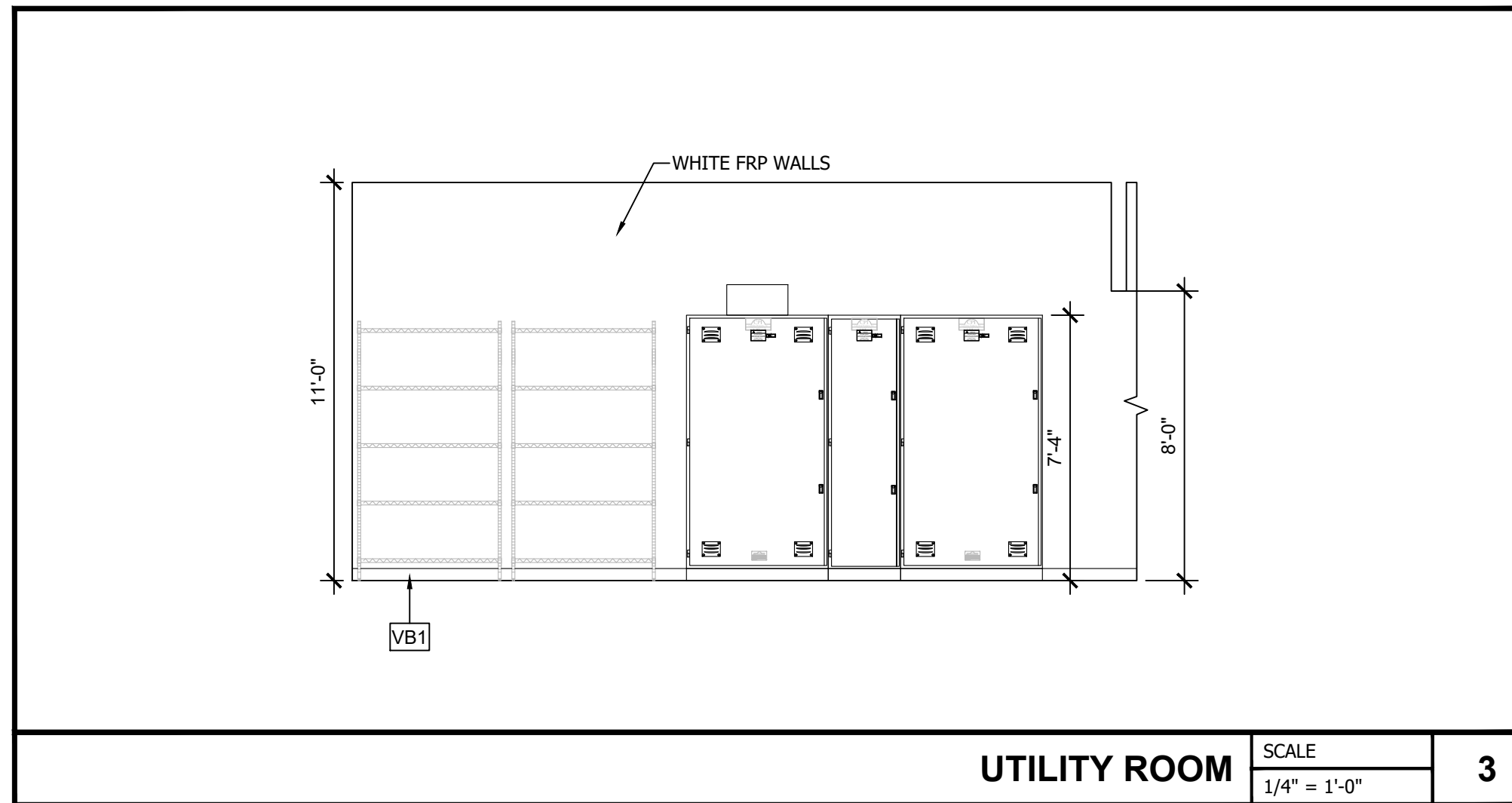
UTILITY ROOM SCALE 1/4" = 1'-0" **6**



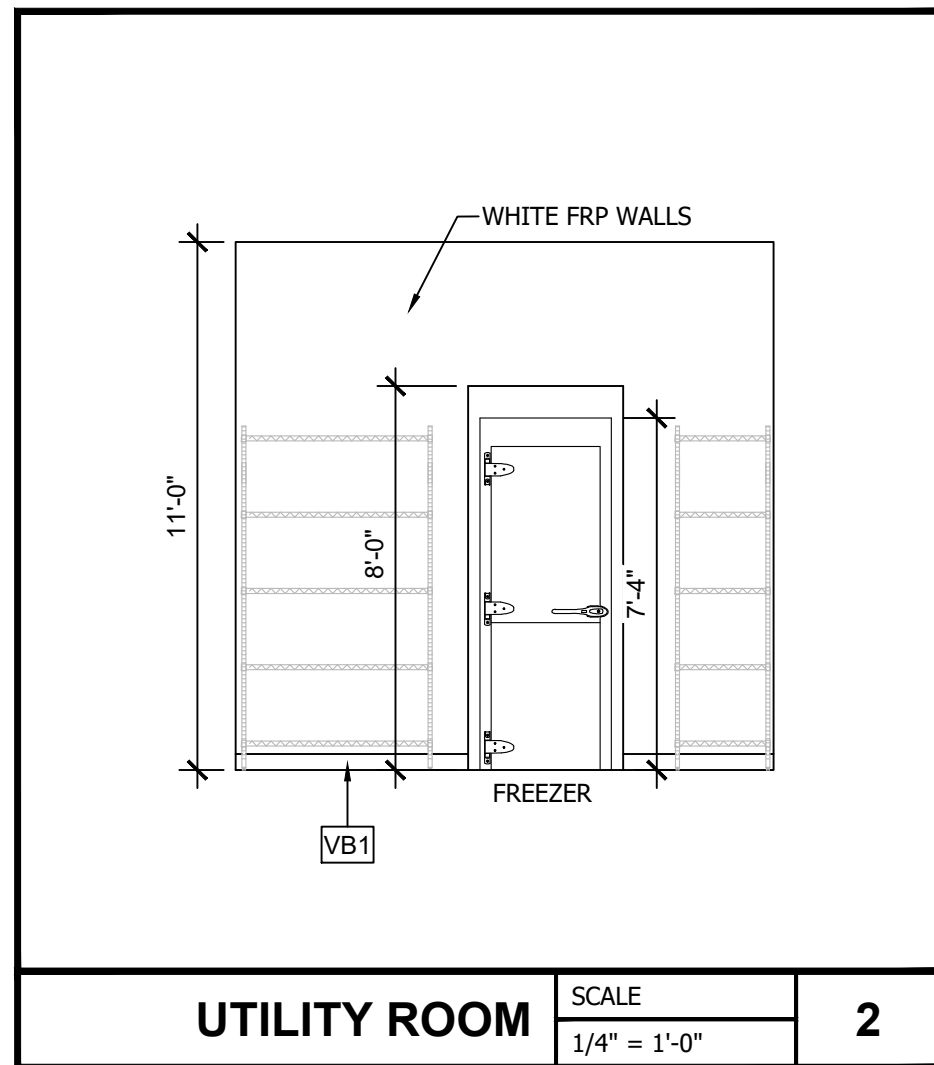
STORAGE ROOM SCALE 1/4" = 1'-0" **5**



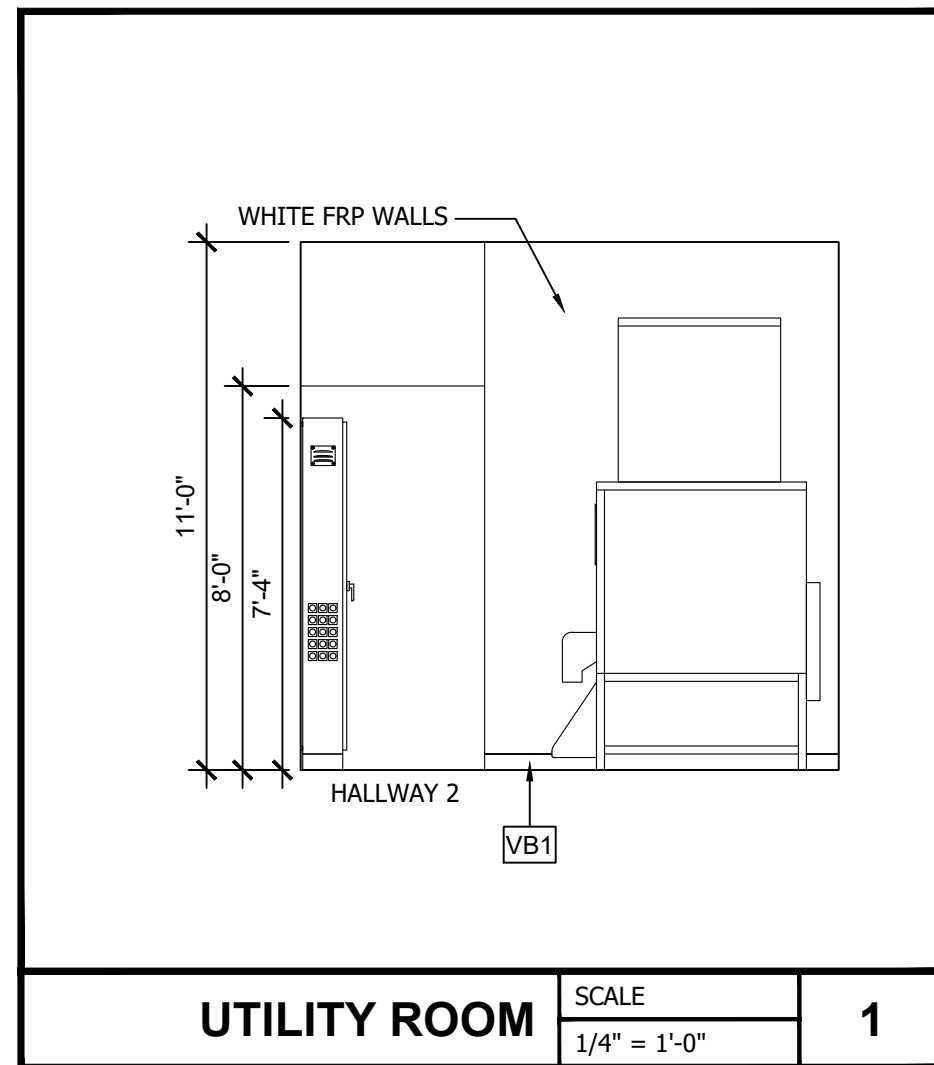
DISH AREA SCALE 1/4" = 1'-0" **4**



UTILITY ROOM SCALE 1/4" = 1'-0" **3**



UTILITY ROOM SCALE 1/4" = 1'-0" **2**



UTILITY ROOM SCALE 1/4" = 1'-0" **1**

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 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
INTERIOR ELEVATIONS

Project No.
 170-95.00

Drawn By:
 KM

Checked By:
 AFO

Sheet
A11.1

INTERIOR FINISH MATERIALS LIST			
FLOOR, BASE, AND WALL TILE		SOLID SURFACE COUNTER TOP	
T1	RIDGEWOOD 24" X 24" - TAUPE. GROUT COLOR: MAPEI #5011, SAHARA BEIGE.	SS1	WILSON ART QUARTZ (COFFEE HOUSE Q6005 - 2 CENTIMETERS)
T2	CREATIVE MATERIALS CORPORATION: LAVA COLOR PALETTE, SAND. 12" X 24": 1/3 OFFSET PATTERN. GROUT COLOR: MAPEI #5077, FROST.	WALL BOARD (USED IN ALL STORAGE AREAS)	
T3	CREATIVE MATERIALS CORPORATION: LAVA COLOR PALETTE, SAND. 3" X 24" BULL NOSE. GROUT COLOR: MAPEI #5077, FROST.	WB1	AVONITE - 1/2" SOLID SURFACING - K3-8490-SATIN - COPPERMINE
T4	ANTHOLOGY: RIDGE HILLS COLLECTION. SANDY CLIFFS MOSAIC TILE. GROUT COLOR: MAPEI #5077, FROST.	COOLER DOORS	
T5	CREATIVE MATERIALS CORPORATION: ASSENT COLLECTION, DARK GREY MATTE. 12" X 24" FIELD CUT TO FIT BELOW REACH IN FRAMES. GROUT COLOR: MAPEI #5101, RAIN.	CD1	COOLER DOORS AND FRAMING TO BE FACTORY FINISHED WITH BLACK ON POLISHED ALUMINUM DECORATOR TRIM FINISH, AND VANGARD BRIGHT SILVER WITH BLACK HANDLES.
T6	OMNI GLAZED MOSAIC 2"x2" WHITE MATTE HEXAGON WALL TILE. 1/8" GROUT LINE WITH SL BASE TRIM PIECE ALONG THE BOTTOM. GROUT COLOR: MAPEI #5101, RAIN.	EQUIPMENT & GONDOLA SHELVING	
T7	12" BREAK METAL 25 GA. COLOR TO BE POWDER COAT YELLOW ACM FP-2 OR EQUAL	EQ	FACTORY PAINT ALL FLOOR MERCHANDISING EQUIPMENT WHITE.
T8	EPOXY COATED FLOOR SYSTEM BY FLOWCRETE-FLOWFRESH SL. COLOR IS MID GRAY	SH	SHELVING USED ON INTERIOR STORE DESIGN IS BY LOZIER STORE FIXTURES, INCORPORATED. FACTORY PAINT ALL GONDOLA SHELVING BLACK.
T9	RIDGEWOOD 24" X 12" - TAUPE. 1/3 OFFSET PATTERN. GROUT COLOR: MAPEI #5011, SAHARA BEIGE.		
VINYL BASE		MENU BOARD	
VB1	4" VINYL COVE BASE, COLOR: GRAY - TO MATCH SEALED CONCRETE BY RUBBERMITE - MANUFACTURED BY BURK-MERCER.	MB1	MI - (3) PANEL INTERNALLY ILLUMINATED MENU BOARD SYSTEM. MENU BOARD IF REQUIRED IS "MAINSTREET" BRAND.
FLOOR TILE NOTES: 1. ALL WALL TILE TO BE REINFORCED WITH MOISTURE RESISTANT COVERED GYPSUM BOARD. AREAS INCLUDED: RESTROOMS, COOLER, AND BEVERAGE AREAS. 2. RESTROOM AREA - US E CEMENT BOARD BACKING IN ALL WET AREAS UP TO 48" AFF. SE MOISTURE RESISTANT COVERED GYPSUM BOARD ABOVE CEMENT BOARD. 3. USE PRE-MANUFACTURED CORNER TILE PIECE OF BULL NOSE AS REQUIRED ON ALL EXPOSED CORNERS ON FLOOR BASE AND WALLS.		FLOOR TRANSITION	
		FT-1	FLOOR TRANSITION BAR 4" RENO-RAMP K SCHLUTER
WALL COVERING: PAINT		GENERAL NOTES	
P1	SHERWIN-WILLIAMS #SW7582 SALUTE, EGG SHELL	1. USE "EVERCLEAN" FLAT LATEX PAINT ON ALL PAINTED INTERIOR WALL SURFACES. 2. USE CLEAR PLEXIGLASS WALL CORNER GUARDS IN ALL HI-TRAFFIC AREA. 3. CHANNEL ALL ELECTRICAL COMPONENTS FOR DECORATIVE LIGHTING TO NOT BE VISIBLE TO STORE CUSTOMER'S VIEW. 4. G.C. TO VERIFY ALL FINISHES WITH OWNER PRIOR TO CONSTRUCTION. 5. G.C. TO SUBMIT COLOR SAMPLES OF ALL MATERIALS TO OWNER FOR APPROVAL. 6. ALL DOOR KICK PLATES TO MATCH DOOR HARDWARE. 7. ALL DOOR HARDWARE TO BE BRUSHED ALUMINUM FINISH UNLESS OTHERWISE NOTED. SEE SHEET A08A FOR DOOR SCHEDULE AND FINISHES.	
P2	SHERWIN-WILLIAMS #SW7686 HINOKI, EGG SHELL		
P3	SHERWIN-WILLIAMS #SW7709 COPPER POT, EGG SHELL		
P4	SHERWIN-WILLIAMS #SW6898 SOCIAL BUTTERFLY, EGG SHELL		
P5	SHERWIN-WILLIAMS WHITE, EGG SHELL	GRAPHIC DETAILS	
P6	SHERWIN-WILLIAMS #SW6108 LATTE, EGG SHELL	1D	1/2" WOOD SIGN TO BE CONSTRUCTED WITH CHAIN ACCENTS ON TOP AND BOTTOM, SURFACE TO BE L1. MEN'S AND WOMEN'S RESTROOM SYMBOLS TO BE ON SIGN. REFERENCE ELEVATIONS FOR DIMENSIONS. COLOR OF SYMBOLS - BLACK.
P7	SHERWIN-WILLIAMS #SW 6825 IZMIR PURPLE	2D	1/2" SOFFIT TO EXTEND 8" FROM WALL PAINTED P4 AND CEFCO GREEN. CEFCO LOGO TO BE PRINTED AND APPLIED TO VERTICAL SURFACE.
ST1	FAUX STONE VENEER - CREATIVE SONE CEFCO RUSTIC RUBBLE	3D	1/2" WOOD SIGN TO BE CONSTRUCTED SUSPENDED FROM CEILING BY CHAIN. SURFACE TO BE L1. FRESH EATS DELI TO BE SIGN IN FONT STYLE "ADOBE GARAMOND PRO". FONT COLOR: GOLDENROD YELLOW.
MILLWORK LAMINATES		4D	LIFESTYLE IMAGES TO BE PRINTED AND FRAMED.
L1	LAMINATED PLASTICS BY FORMICA #758-58 BLOSSOM CHERRYWOOD	5D	NOT USED
L2	LAMINATED PLASTICS BY FORMICA #909-SP BLACK	6D	FRESH YO LOGO TO BE PRINTED AND APPLIED TO VERTICAL SURFACE.
L3	LAMINATED PLASTICS BY FORMICA #448 FEATHERED COPPER	7D	FRESH YO GRAPHIC ON CABINETS LOGO TO BE PRINTED AND APPLIED TO VERTICAL SURFACE.
L4	LAMINATED PLASTICS BY FORMICA #3517-58 SAND CRYSTAL	8D	GRAPHIC ON WALL
L5	LAMINATED PLASTICS BY FORMICA #5488-NT SMOKY BROWN PEAR		
L6	LAMINATED PLASTICS BY FORMICA #444 FEATHERED ALUMINUM		
SOFFIT EDGE WILL HAVE SCHULTER-RONDEC (AE) WITH SCHIENE RADIUS SCHLUTER (AE) FOR ALL RADIUS EDGES. (ABOVE SALES COUNTER)			
WALL TRANSITION		WALL COVERING: VINYL GRAPHIC	
WT1	ALUMINUM SCHLUTER STRIP - RONDEC, STAINLESS STEEL BULLNOSE EDGE TRIM - VERIFY WITH OWNER	V1	VINYL GRAPHIC - BY OWNER. WALL CORNER USE RONDEC R060AE AT BATHROOM AND FRESH YO/BEVERAGE AREA
WT2	HEAVY DUTY SCHLUTER STRIP - VERTICAL 90 DEGREE - ECK-E 2.5MM E37V2A80/250, STAINLESS STEEL. VERIFY WITH OWNER.		
WT3	SCHLUTER DILEX - BRUSHED STAINLESS STEEL. APPLY TO 90 DEGREE INSIDE CORNERS AND 135 DEGREE OUTSIDE CORNERS AT ALL TILE TRANSITIONS TO WALL.		

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1	ISSUE FOR PERMIT	03/31/2023



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FL REG. NO. 64085

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
**INTERIOR ELEVATIONS
MATERIAL LIST**

Project No.
170-95.00

Sheet
A11.2

Drawn By:
KM

Checked By:
AFO

LUMINAIRE SCHEDULE		
SYMBOL	QTY	DESCRIPTION
□	36	CANOPY LIGHT
—		LED CANOPY FASCIA
		3-ROWS LED LIGHTING

FIRE EXTINGUISHER AND CABINET	
▲	6

CABINET BY LARSEN'S MANUFACTURING #2712-R-FULL PANEL-AL SQUARE TRIM RECESSED RED VERTICAL LETTERING. CABINET AND HIGH HAZARD FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (ABC DRY CHEMICAL - 5 LB.) INSTALLATION: FE HANDLE TO BE 42" AFF.

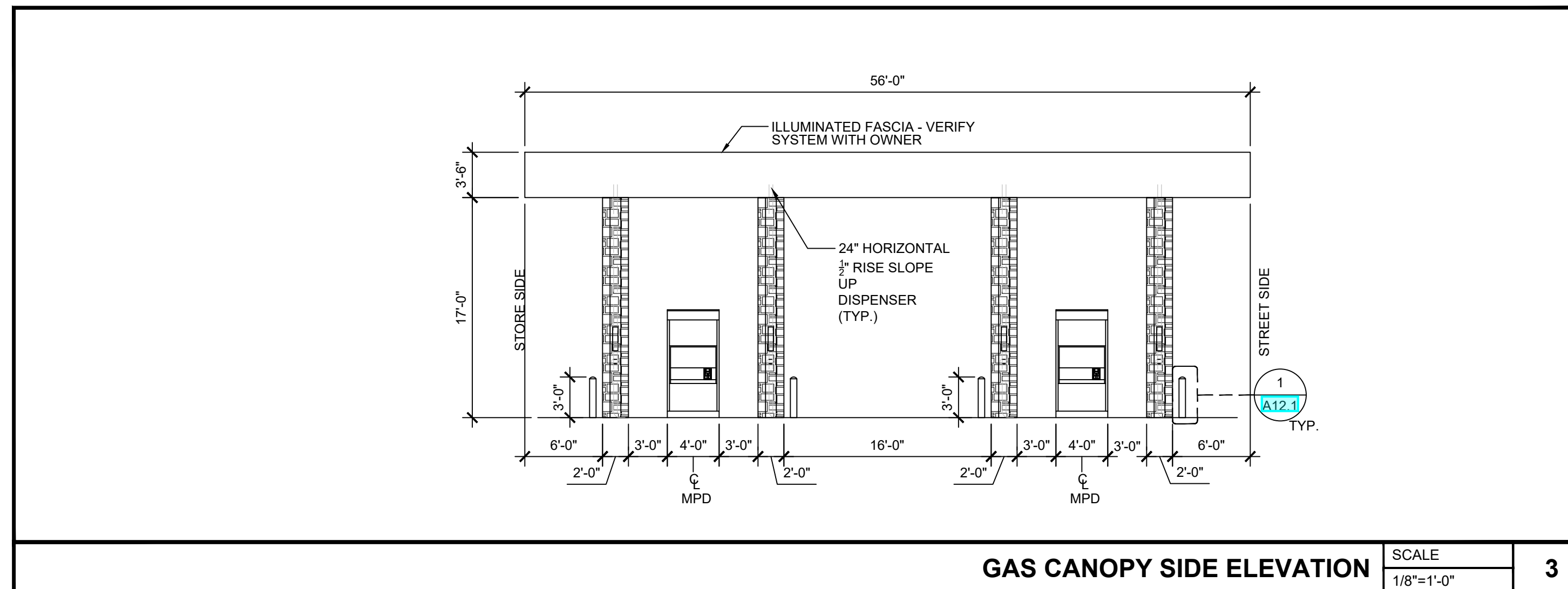
SCOPE OF WORK / CONTRACTORS RESPONSIBILITIES:

- CANOPY STRUCTURAL SYSTEM AND FASCIA SUPPLIED BY OWNER. INSTALLED BY GENERAL CONTRACTOR.
- FASCIA SYSTEM PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY GENERAL CONTRACTOR.
- LIGHTS PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY GENERAL CONTRACTOR.
- CANOPY COLUMN FRAMING SYSTEM AND STONE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.

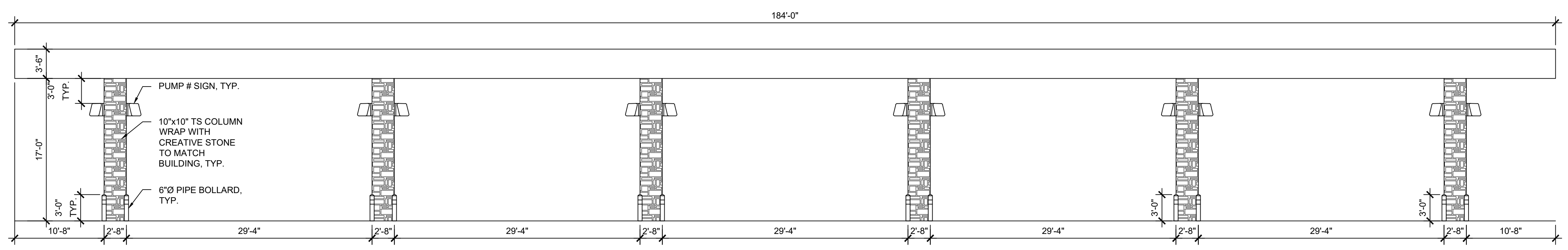
GAS PUMP SIGNAGE:
 *MADE OF .063 HEAVY-DUTY ALUMINUM.
 *PRINTED ON TWO SIDES.
 *ROUNDED CORNERS.
 *1" BEND WITH INDUSTRIAL STRENGTH DOUBLE SIDED TAPE.
 *PREDRILLED MOUNTING HOLES FOR ADDITIONAL SECURITY.

NOTE:
 FOR ILLUSTRATIVE PURPOSES AND DIMENSIONING OF LIGHTING/COLUMNS ONLY. FULL SET OF ENGINEERED CANOPY DRAWINGS PROVIDED. SEE SHEETS CS1, CS2, AND AB1.

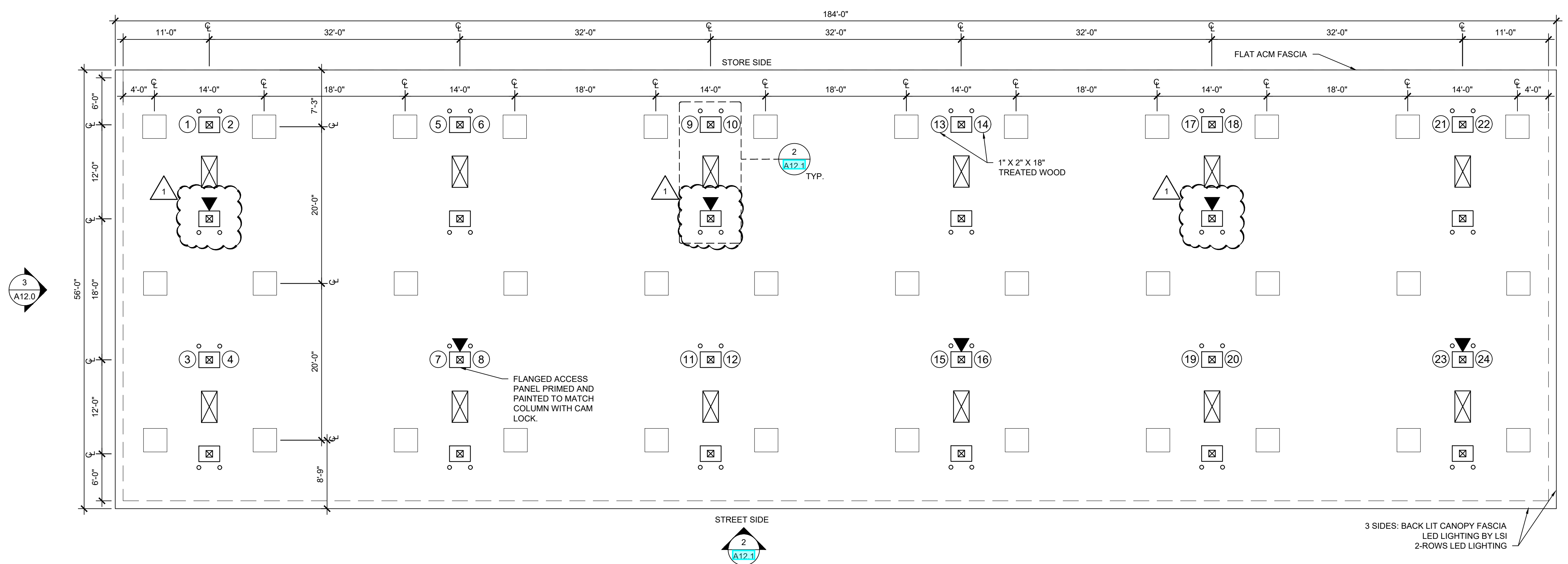
BASIC WIND SPEED: V=115 MPH, Vasd= 90 MPH
 BUILDING RISK CATEGORY: II



GAS CANOPY SIDE ELEVATION SCALE 1/8"=1'-0" **3**



GAS CANOPY FRONT ELEVATION SCALE 1/8"=1'-0" **2**



GAS CANOPY LIGHTING PLAN SCALE 1/8"=1'-0" **1**

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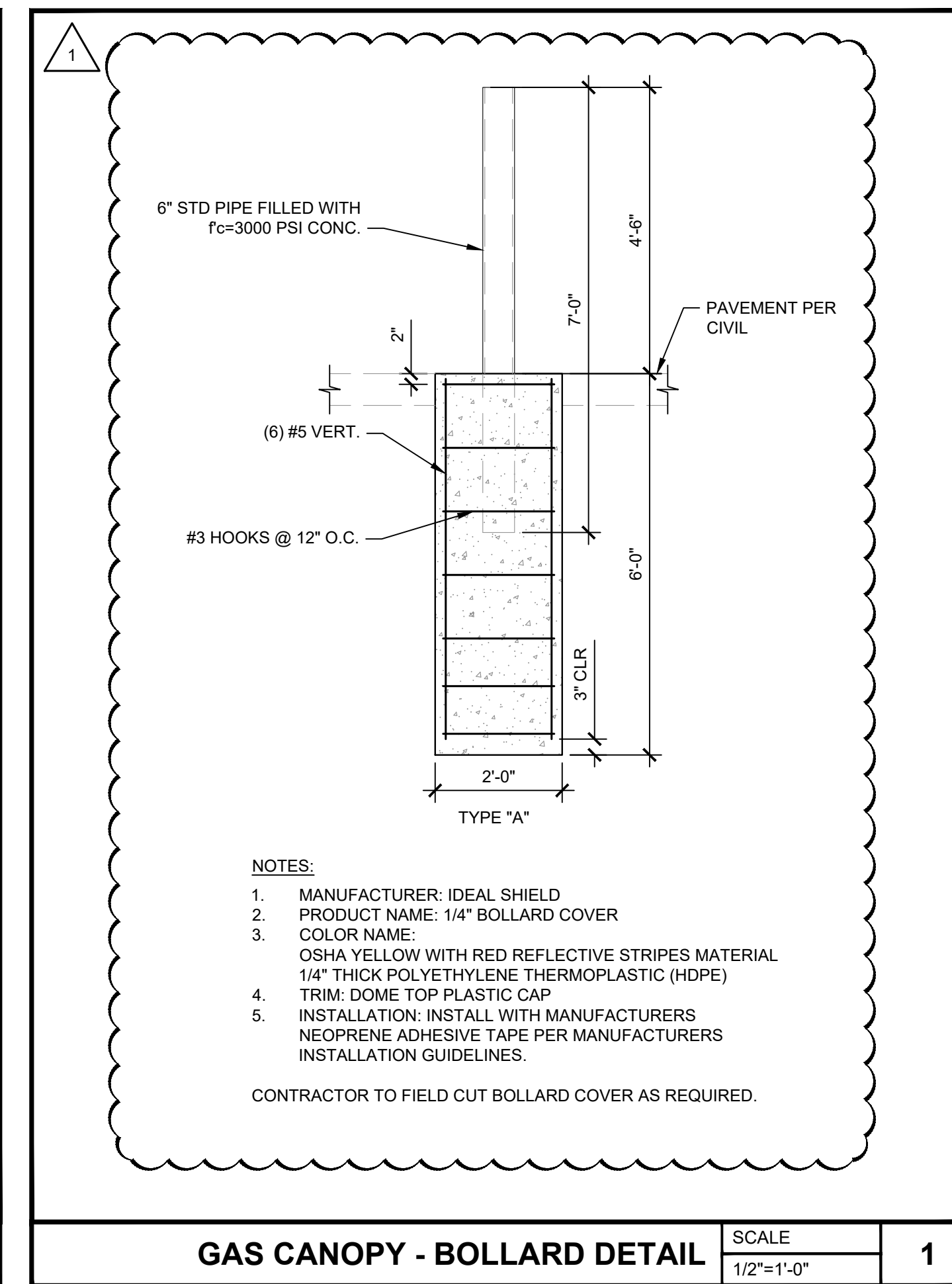
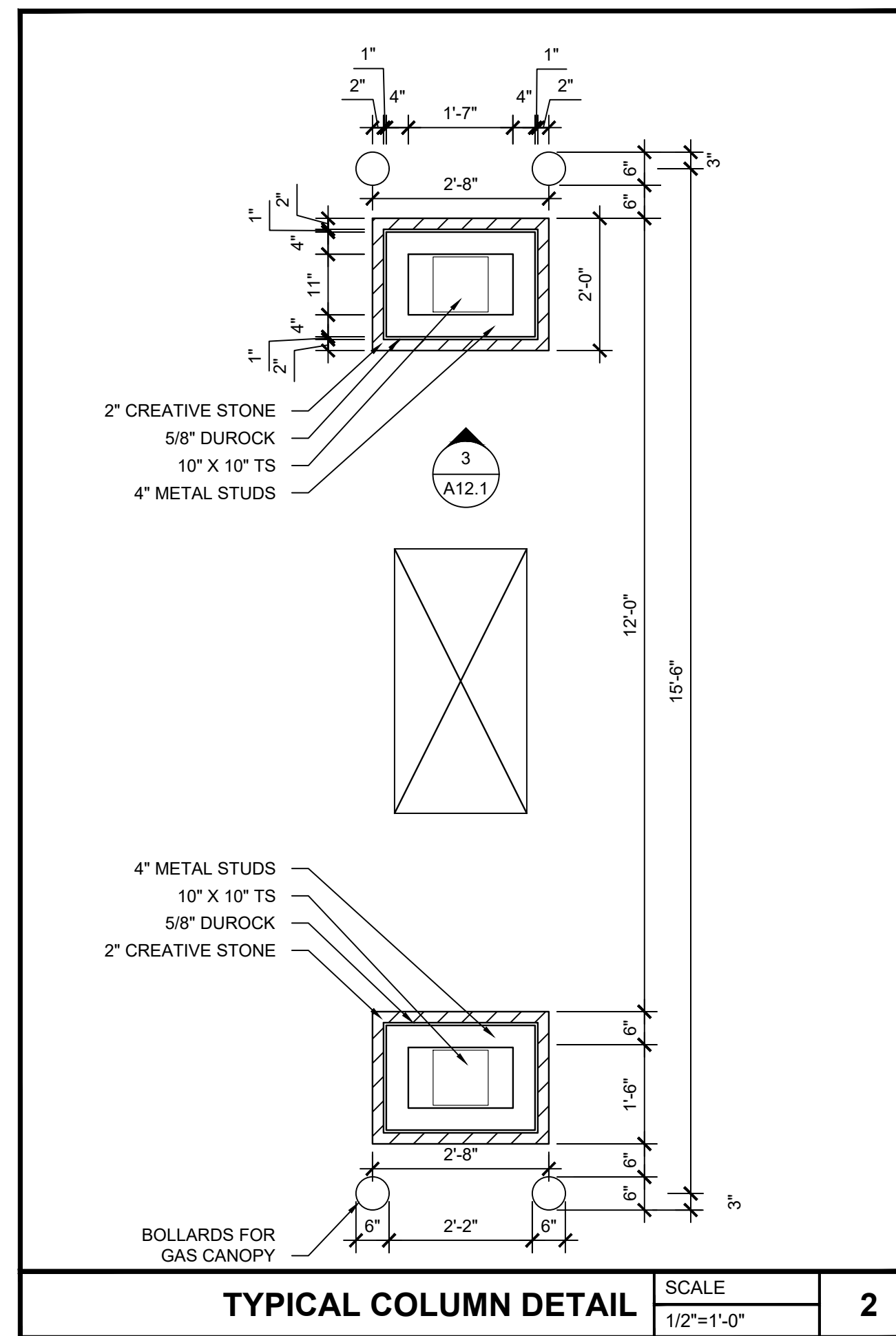
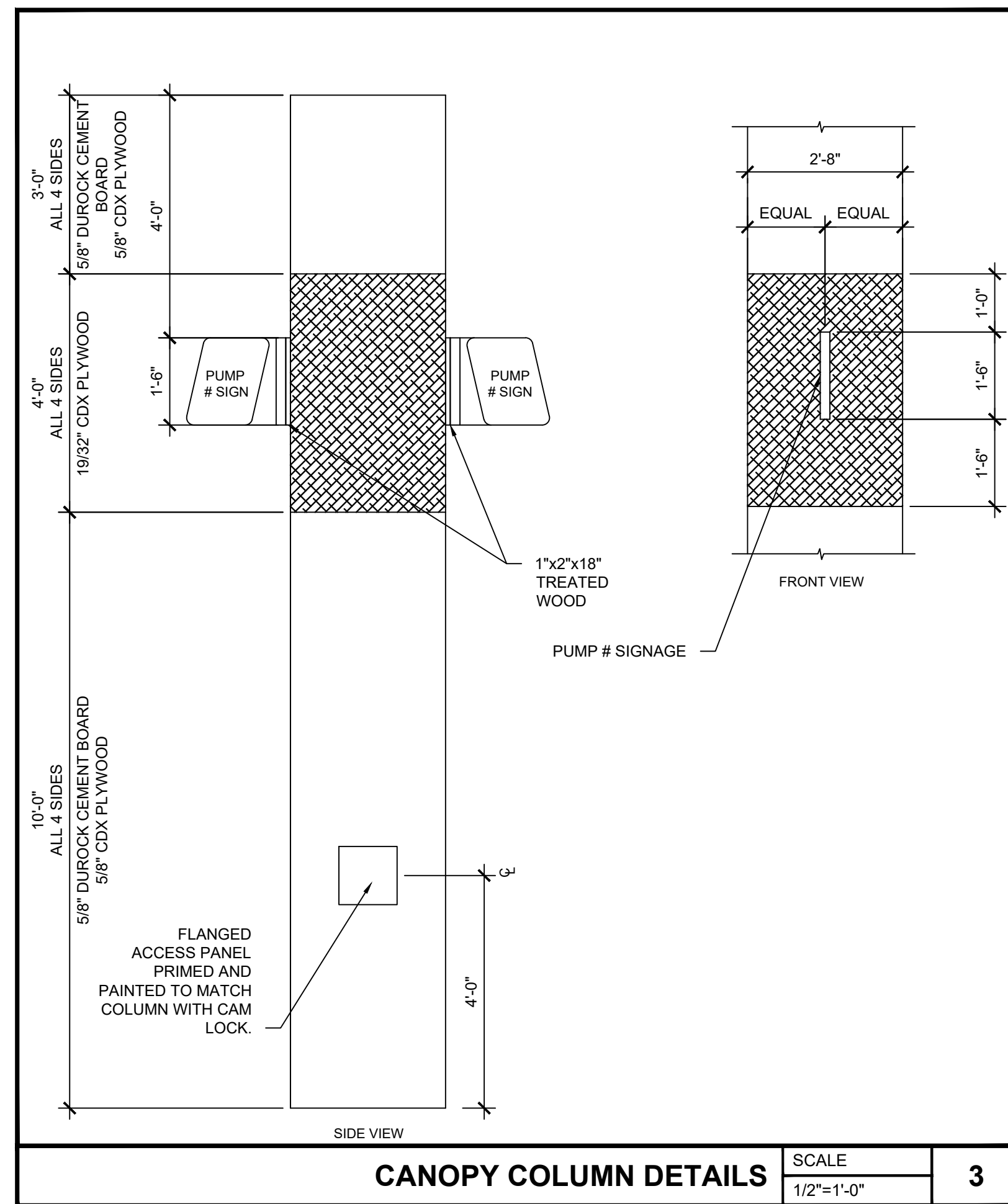
Sheet Title
GAS CANOPY PLAN AND ELEVATIONS

Project No.
 170-95.00

Drawn By:
 KM

Checked By:
 AFO

Sheet
A12.0



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Sheet Title:
GAS CANOPY PLAN DETAILS

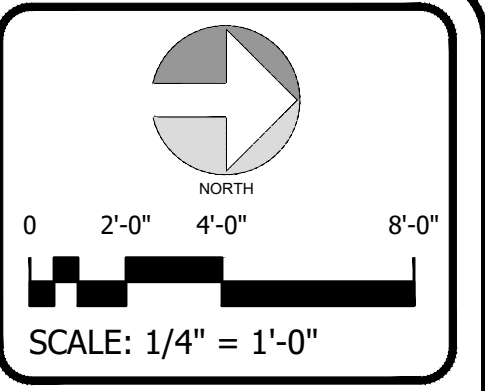
Project No.
170-95.00

Drawn By:
KM

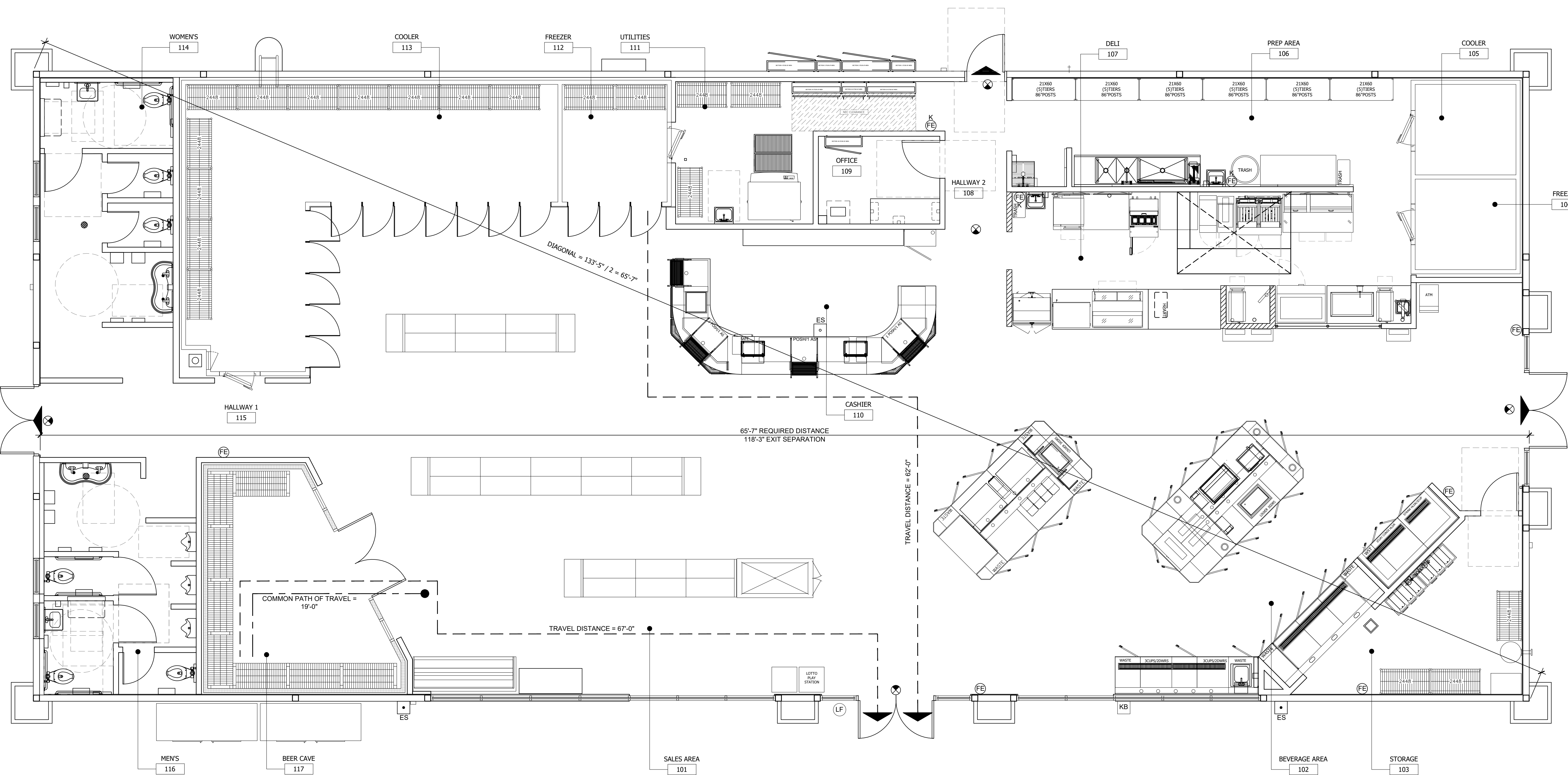
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AFC

Sheet No.
A12.1

SYMBOLS LEGEND		PLUMBING FIXTURE REQUIREMENTS					BUILDING AREA		CODE ANALYSIS		
SYMBOL	DESCRIPTION	MINIMUM NUMBER OF PLUMBING FIXTURES: FBC-PLUMBING (TABLE 403.1)					C-STORE	SF	C-STORE		
	EGRESS WIDTH	WATER CLOSETS	LAVS	DRINKING FOUNTAINS	BATH / SHOWER	OTHER	SALES AREA - M	3,150	OCCUPANCY GROUP	M - MERCANTILE	
	EMERGENCY EXIT SIGN (DIRECTIONAL) WITH BATTERY BACKUP	1,500	1,750	1,1000	-	1 SERVICE SINK	WALK-IN COOLER/FREEZER - M	570	OCCUPANCY GROUP	S - ACCESSORY	
	NOTICE / WARNING SIGN FOR LIGHT-FRAME TRUSS TYPE CONSTRUCTION PER FBC	REQUIRED	1	1	0	0	BEER CAVE - M	255	CONSTRUCTION TYPE	IIB (UNPROTECTED)	
	FIRE EXTINGUISHER-BRACKET MOUNTED, MULTIPURPOSE DRY CHEMICAL 3-A-40-B-C	PROVIDED	6 WC & 3 URINALS	6	*0	0	RESTROOMS - S	539	OCCUPANT LOAD	86	
	FIRE EXTINGUISHER-BRACKET MOUNTED, KITCHEN UL 711A	*NOTE: SINGLE-USE CONTAINERS WILL BE AVAILABLE FOR CUSTOMERS AND EMPLOYEES TO ACCESS WATER FROM BEVERAGE MACHINE(S)									
	EMERGENCY PUSH-BUTTON SHUT-OFF SWITCH FOR FUEL SYSTEM. NFPA AND SIGNAGE @ 42" AFG	APPLICABLE CODES									
	KNOX BOX INSTALLED AS PER FIRE MARSHALL'S SPECIFICATIONS	2020 FLORIDA BUILDING CODE 7TH EDITION 2020 FLORIDA EXISTING BUILDING CODE 7TH EDITION 2020 FLORIDA ACCESSIBILITY CODE 7TH EDITION 2020 FLORIDA PLUMBING CODE 7TH EDITION 2020 FLORIDA MECHANICAL CODE 7TH EDITION 2020 FUEL GAS CODE 7TH EDITION 2020 FLORIDA ENERGY CONSERVATION CODE 7TH EDITION 2020 FLORIDA FIRE PREVENTION CODE 7TH EDITION 2017 NATIONAL ELECTRICAL CODE (NFPA 70)									
	DIAGONAL DISTANCE AND EXIT REMOTENESS	C-STORE									
	MAXIMUM TRAVEL DISTANCE / PATH OF TRAVEL FROM THE MOST REMOTE POINT TO NEAREST EXIT	SALES AREA - M									
	COMMON PATH OF TRAVEL	UTILITIES - S									
	CHOICE OF EXIT	OFFICE - M									
	PRIMARY EXIT	CASHIER AREA - M									
		DELI - M									
		COOLER/FREEZER COMBO - S									
		GROSS BUILDING									
		STORAGE - S									
		WIND LOAD - PER FBC 1609, WIND LOAD = 115 MPH									
		MAXIMUM EXIT ACCESS TRAVEL DISTANCE									
		MAXIMUM COMMON PATH OF TRAVEL									
		EXITS REQUIRED									
		EXITS PROVIDED									
		OCCUPANCY (CONVENIENCE STORE)									
		M-MERCANTILE									
		S-ACCESSORY									
		SUBTOTAL									



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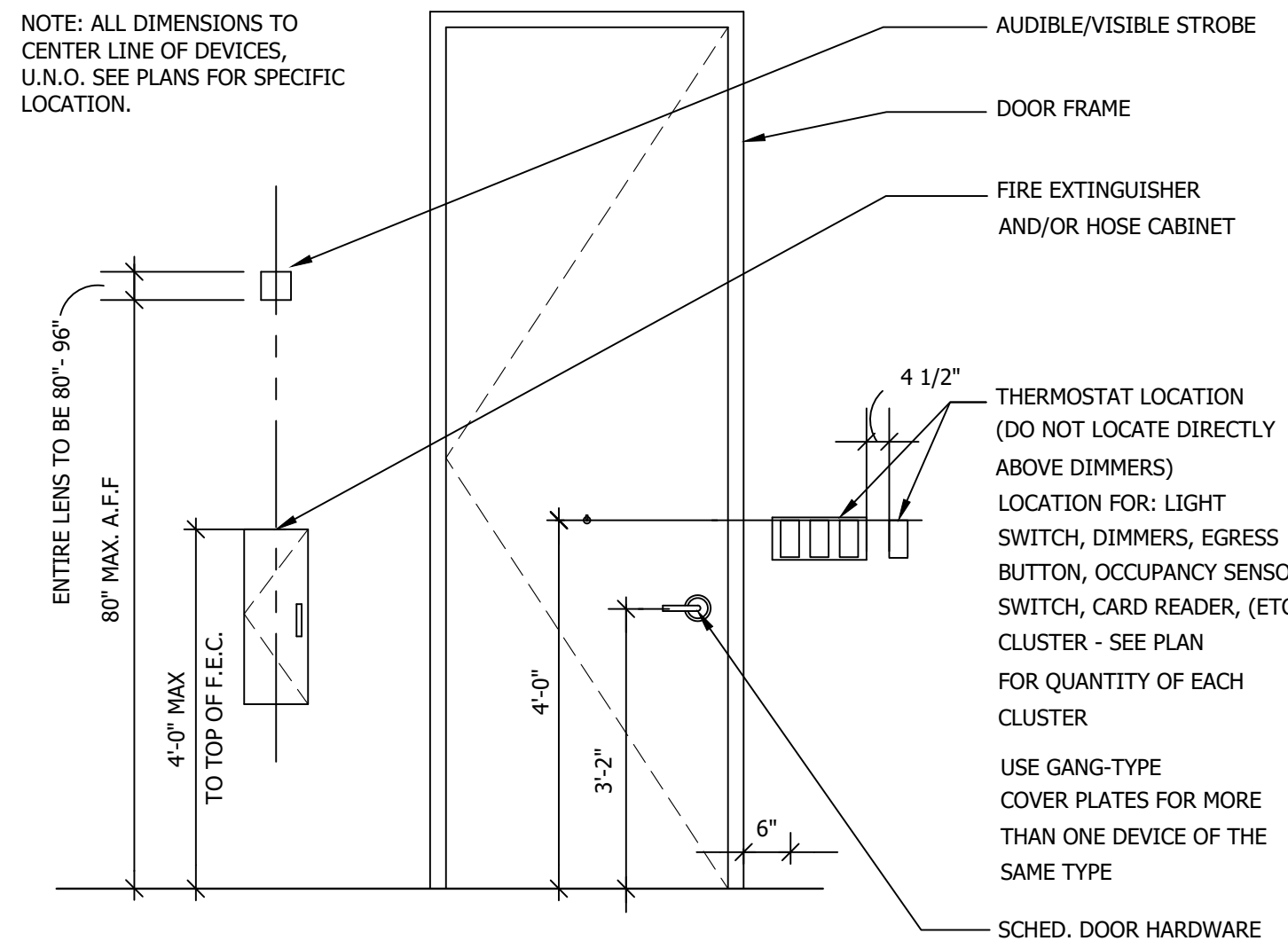
Sheet Title
LIFE SAFETY PLAN

Project No.
170-95-00

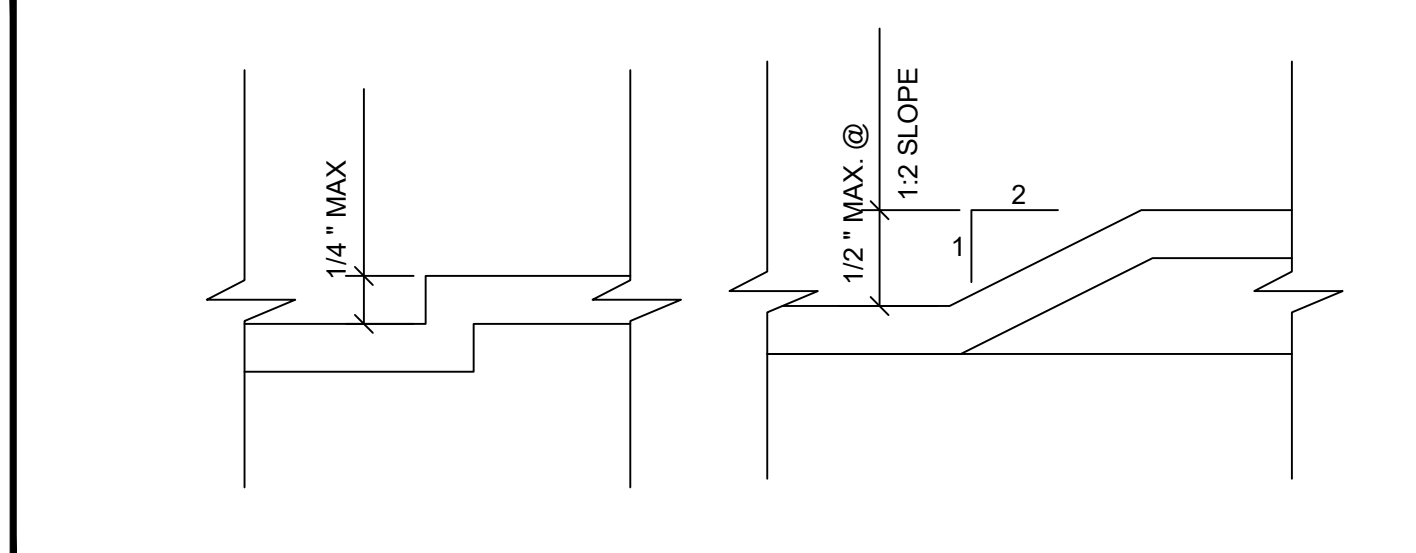
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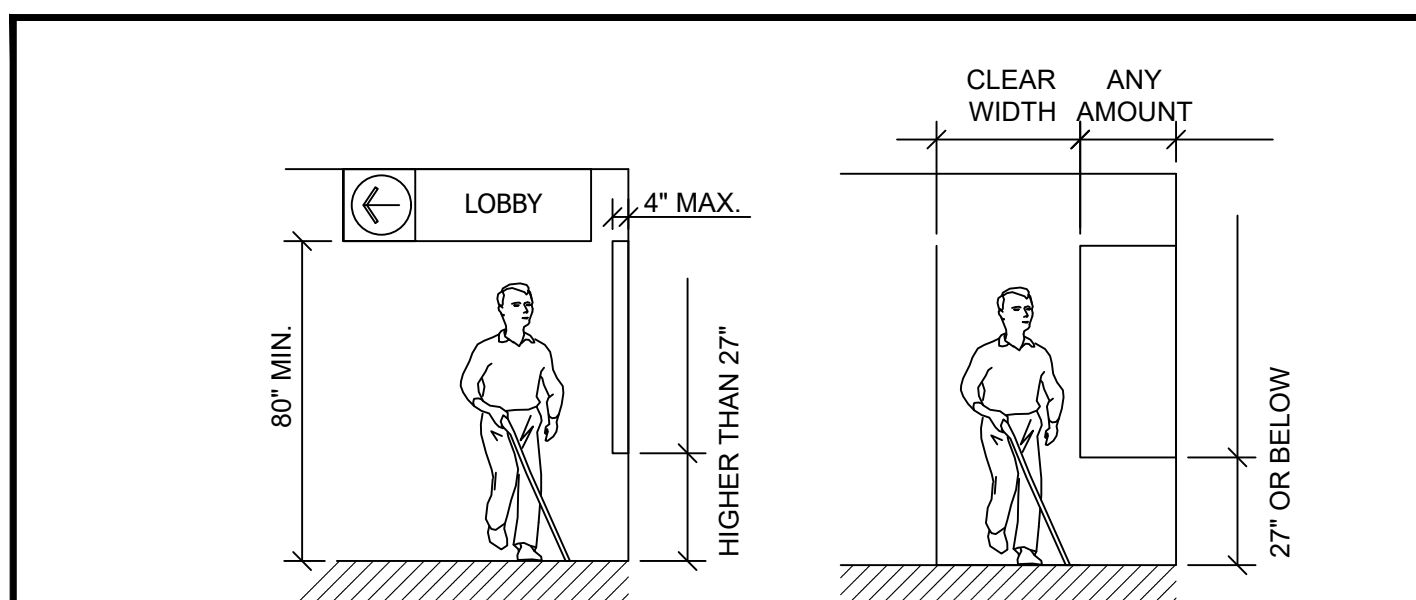
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AN1.0



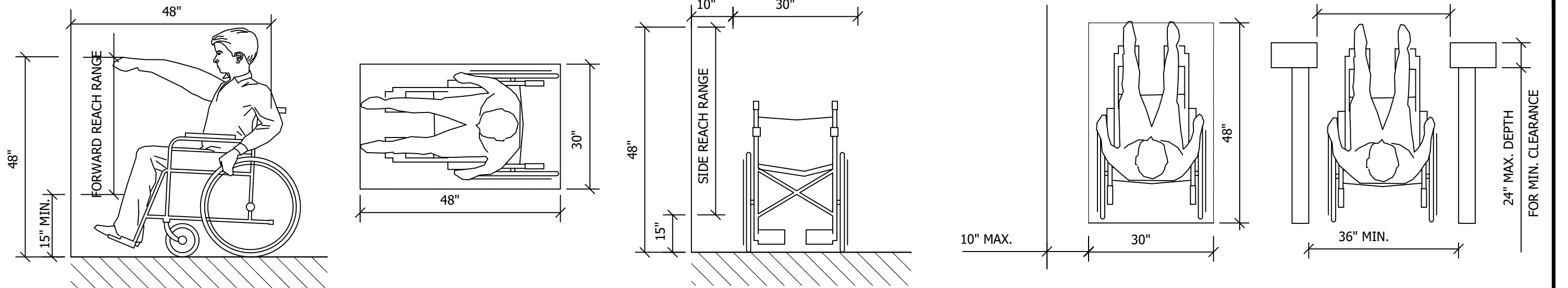
MOUNTING HEIGHTS SCALE N.T.S. 9



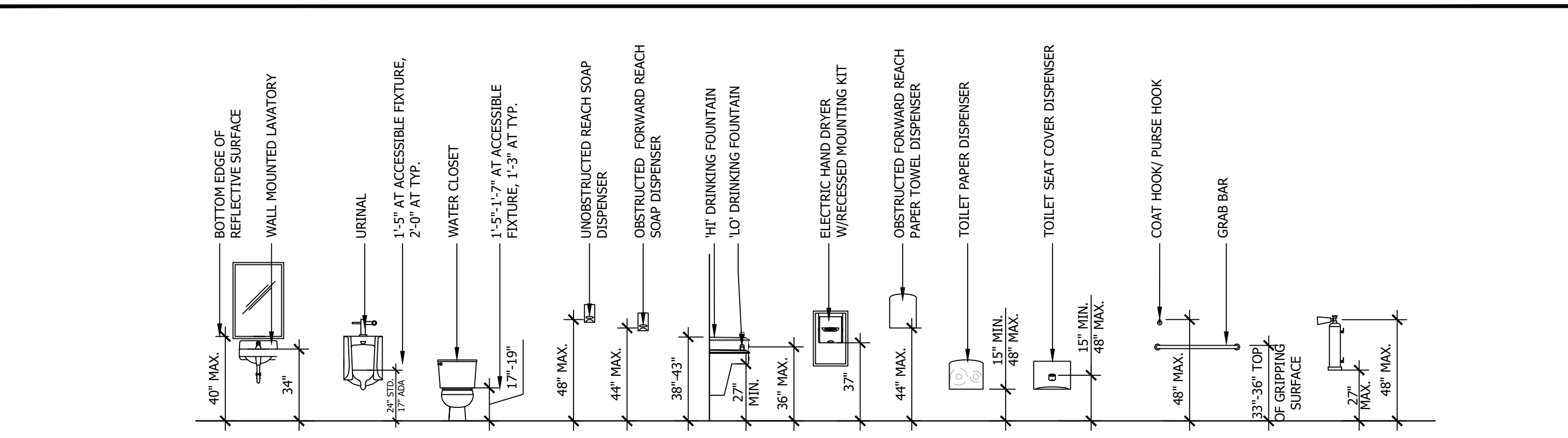
THRESHOLDS SCALE N.T.S. 8



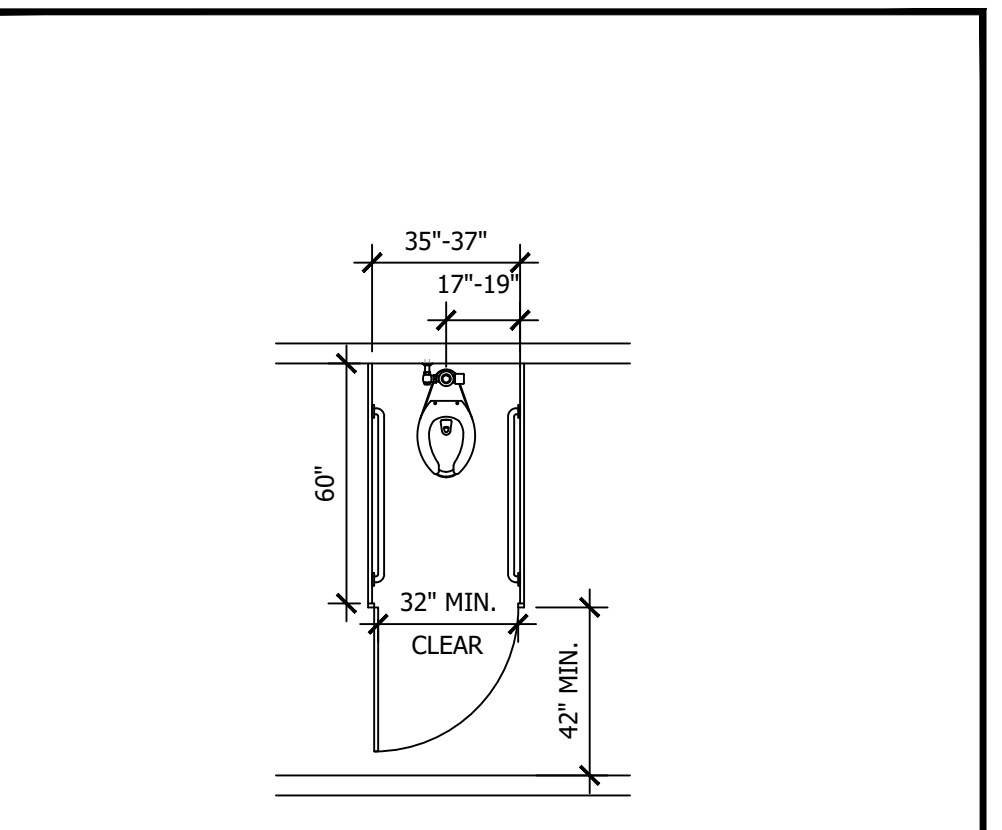
PROTRUDING OBJECTS SCALE N.T.S. 7



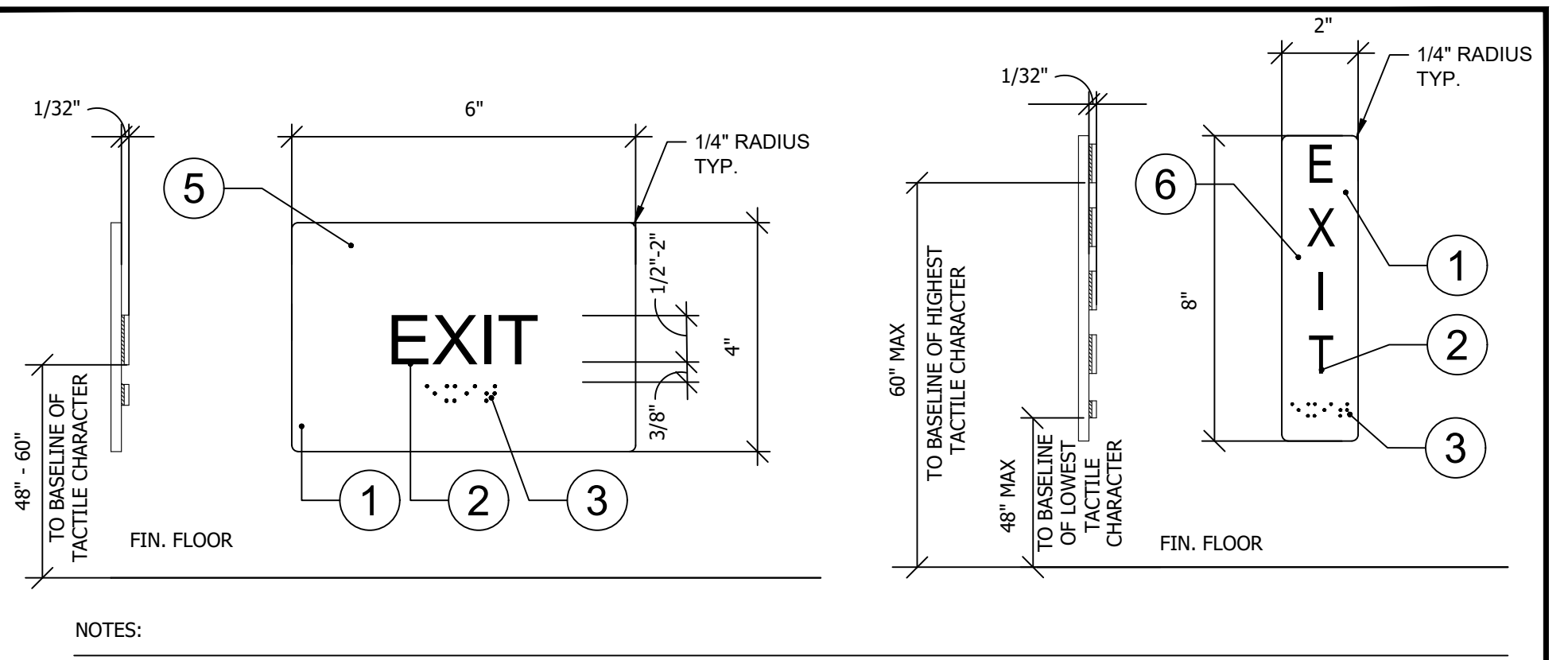
ADA DETAILS SCALE N.T.S. 6



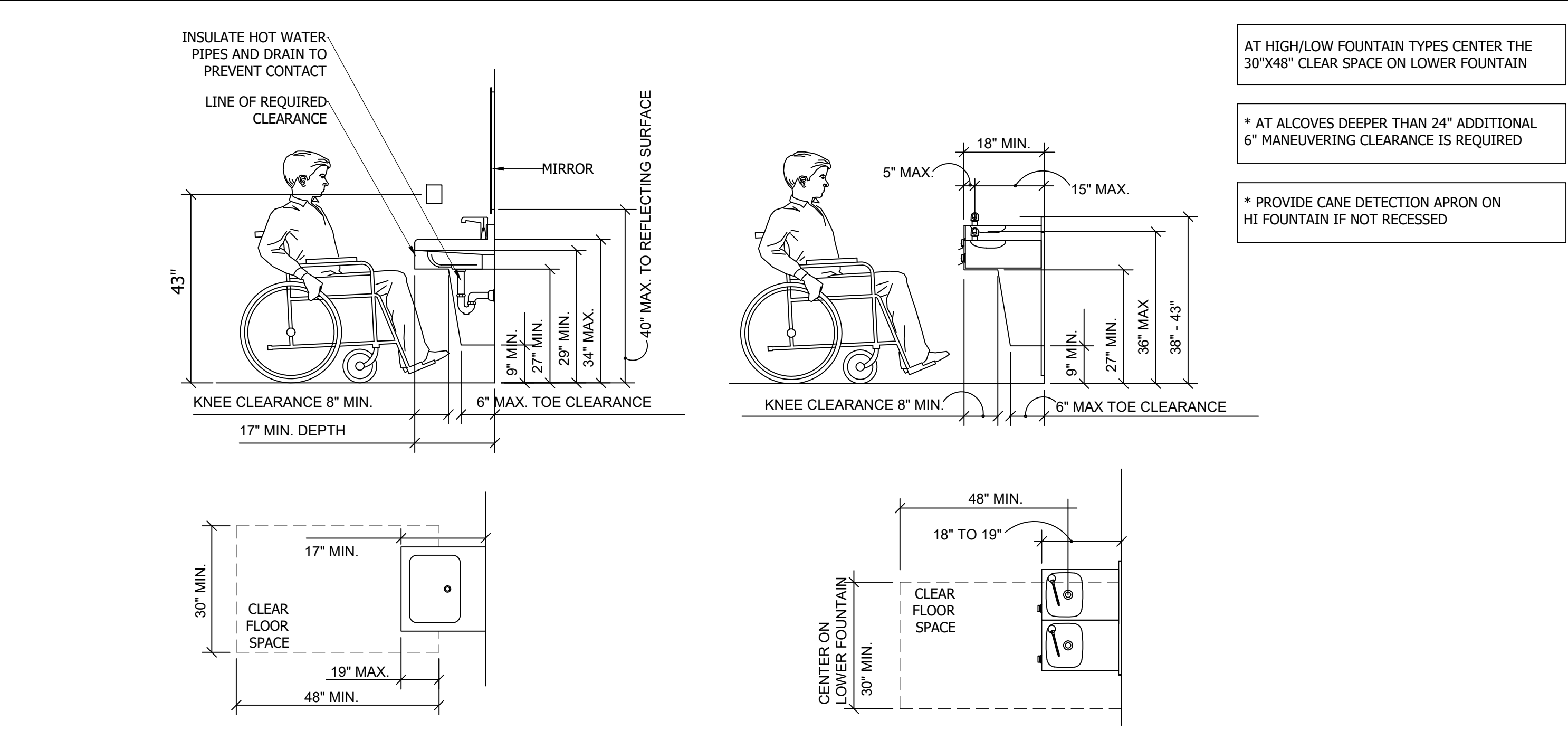
ADA MOUNTING HEIGHT DETAILS SCALE N.T.S. 5



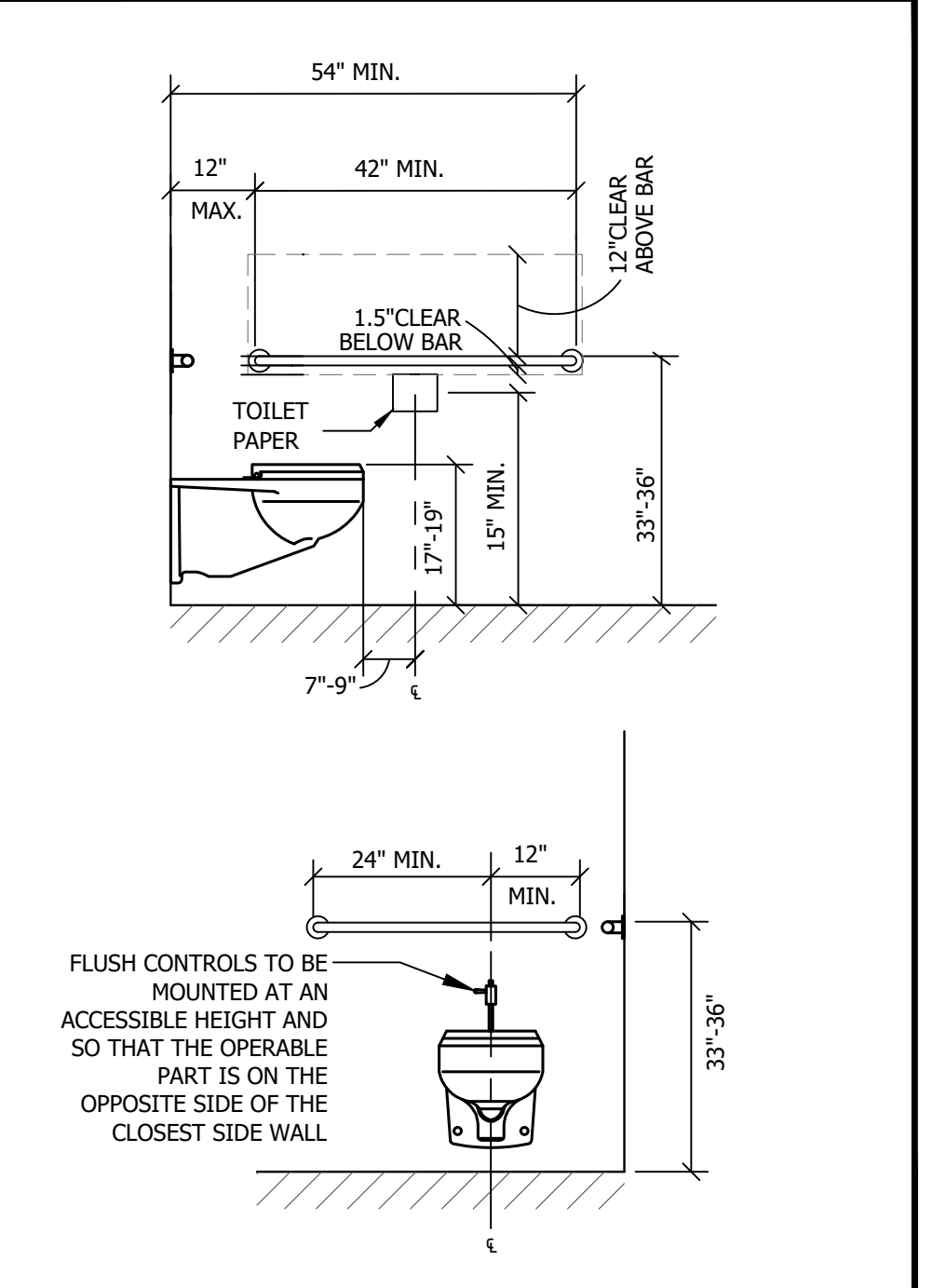
AMBULATORY STALL SCALE N.T.S. 4



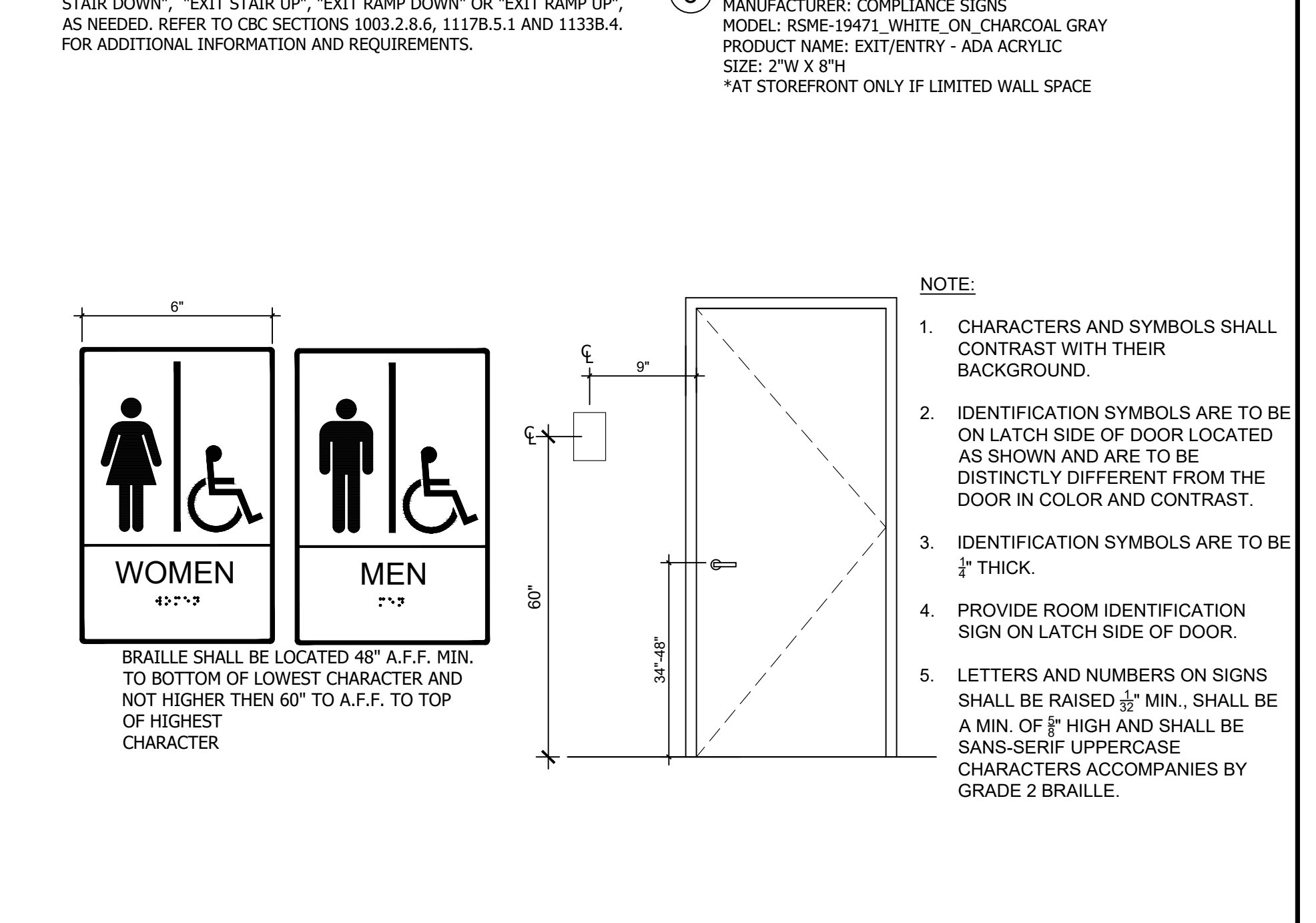
- NOTES:
- 1 TACTILE SIGN - 1/4" PLASTIC WITH RAISED LETTERS & GRADE 2 BRAILLE, PAINTED WITH MATTE PAINT IN CONTRASTING COLOR.
 - 2 RAISED CHARACTERS TO BE SANS SERIF, UPPER CASE FONT, 5/8" MINIMUM, 2" MAXIMUM HEIGHT, RAISED 1/32" MINIMUM ABOVE BACKGROUND.
 - 3 GRADE 2 BRAILLE DOTS SPACED 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, RAISED 1/40" MINIMUM ABOVE THE BACKGROUND. ALTERNATE TEXT & BRAILLE TO READ: "EXIT ROUTE", "EXIT STAIR DOWN", "EXIT STAIR UP", "EXIT RAMP DOWN" OR "EXIT RAMP UP", AS NEEDED. REFER TO CBC SECTIONS 1003.2.8.6, 1117B.5.1 AND 1133B.4. FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - 4 INSTALL TACTILE SIGN ON LATCH SIDE OF DOOR AT EACH EGRESS DOOR FOR ALL PROJECT TYPES.
 - 5 MANUFACTURER: COMPLIANCE SIGNS MODEL: RPE-655_WHITE_ON_CHARCOAL_GRAY PRODUCT NAME: EXIT/ENTRY - ADA ACRYLIC SIZE: 6"W X 4"H
 - 6 *ALTERNATE: MANUFACTURER: COMPLIANCE SIGNS MODEL: RSME-19471_WHITE_ON_CHARCOAL_GRAY PRODUCT NAME: EXIT/ENTRY - ADA ACRYLIC SIZE: 2"W X 8"H *AT STOREFRONT ONLY IF LIMITED WALL SPACE



SINKS AND DRINKING FOUNTAIN DETAILS SCALE N.T.S. 3



MULTI-USER TOILET SCALE N.T.S. 2



TACTILE SIGNAGE SCALE N.T.S. 1

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CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
ADA DETAILS

Project No. 170-95.00	Sheet
Drawn By: KM	AN2.0
Checked By: AFC	

DEMOLITION NOTES

- CONTRACTOR TO DEMOLISH AND REMOVE ALL TRACES FROM SITE OF ALL EXISTING STRUCTURES ABOVE GROUND (AND BELOW GROUND AS INDICATED ON DRAWINGS) NOT NOTED AS REMAINING OR RELOCATED. DISREGARD THIS NOTE IF NO DEMOLITION IS INDICATED ON DRAWINGS.
- GENERAL CONTRACTOR TO PROVIDE AND MAINTAIN ALL FENCES, BARRICADES, LIGHTS, SHORING AND OTHER PROTECTIVE DEVICES NECESSARY FOR THE SAFETY OF WORKMEN, EQUIPMENT, THE PUBLIC AND PROPERTY AS REQUIRED BY STATE AND FEDERAL LAWS AND REGULATIONS AND LOCAL ORDINANCES. MAKE PROVISIONS TO CLOSE AND LOCK THE BUILDING AS SOON AS IT IS POSSIBLE TO DO SO. PROTECT ALL DOOR OPENINGS, WHEN NECESSARY, WITH TEMPORARY BATTEN DOORS. COVER WINDOWS AND OPENINGS WITH SUITABLE MATERIALS WHEN WEATHER CONDITIONS REQUIRE.
- THE SITE OF THIS OPERATION SHALL BE FULLY PROTECTED AS REQUIRED BY LOCAL AUTHORITIES. WARNING SIGNS, BARRICADES, ETC. SHALL BE PROVIDED BY THE CONTRACTOR.
- GENERAL CONTRACTOR TO PROVIDE SUFFICIENT FIRE EXTINGUISHERS ON THE JOB SITE DURING THE COURSE OF CONSTRUCTION, OF THE TYPES AND SIZES RECOMMENDED BY THE NBFU TO CONTROL FIRES RESULTING FROM THE PARTICULAR HAZARDOUS WORK BEING PERFORMED. INSTRUCT EMPLOYEES IN THE USE OF EXTINGUISHERS AND PLACE THEM IN THE IMMEDIATE VICINITY OF THE HAZARDOUS WORK, AVAILABLE FOR IMMEDIATE USE. COMMENCE NO HAZARDOUS WORK UNTIL FIRE EXTINGUISHERS OF AN APPROVED TYPE AND CAPACITY ARE PLACED IN THE WORKING AREA, AVAILABLE FOR IMMEDIATE USE.
- THE CONTRACTOR WILL BE VIGILANT AND RESPONSIBLE FOR MAINTAINING JOB SAFETY AND SECURITY. THE OCCUPATIONAL, SAFETY AND HEALTH ACT FEDERAL SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES.

INTERIOR NOTES

- ALL SURFACES SHALL BE PROPERLY PREPARED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS PRIOR TO THE INSTALLATION OF WALL COVERING. WALL FINISH TO BE SAMPLED FOR APPROVAL. FLAME SPREAD RATINGS FOR INTERIOR FINISHES ARE TO BE IN ACCORDANCE WITH APPLICABLE CODES.
- ALL WORK NOTED "N.I.C." OR "NOT IN CONTRACT" IS TO BE ACCOMPLISHED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE PART OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH "OTHER" CONTRACTORS AS REQUIRED.
- CONTRACTOR SHALL COOPERATE AND COORDINATE ALL JOB OPERATIONS WITH THE OPERATIONS OF OTHERS DOING ADJACENT WORK, SO AS TO PREVENT DELAYS AND CONFLICTS, OR DAMAGES TO EITHER PARTY'S OPERATIONS OR MATERIALS.
- WHERE CLEARANCE PROBLEMS ARISE IN LOCATION OF LIGHT FIXTURES; RETURN AIR GRILLES; SUPPLY DIFFUSERS AND TROFFERS, ETC., AS SHOWN BY DRAWINGS, CONTRACTOR HAS THE OPTION TO RELOCATE BUILDING SYSTEMS WITHIN EACH ROOM AREA WITHOUT AFFECTING THE REQUIRED LIGHT LEVELS AND CFM AIR DISTRIBUTION TO WORK WITHIN THE SPECIFIED CONSTRUCTION CLEARANCES.
- PARTITIONS ARE TO BE CONTINUOUS OVER DOORS, WHEN APPLICABLE, SIMILAR TO ADJACENT WALLS WHERE DRYWALL CONTINUES TO STRUCTURE ABOVE.
- UNLESS NOTED OTHERWISE, ALL PARTITIONS SHALL BE TYPE "A".
- CONTRACTOR SHALL PROVIDE WOOD TREATED AND FLAME RETARDANT BLOCKING OR REINFORCING IN PARTITIONS THAT ARE COMMON FOR THE NEED OF SUPPORTING FIXTURES, CABINETS, EQUIPMENT, FURNITURE ETC., AS MAY BE REQUIRED OR SHOWN BY DRAWINGS.
- CONTRACTOR SHALL PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL PLUMBING CHASES INDICATED AND BEHIND ALL COUNTERS WHICH ACT AS WET PRONE AREAS.
- THE SUSPENSION GRID CEILING SYSTEM SHALL RUN CONTINUOUS AND NO MAIN TEES MAY BE CUT FOR ANY REASON, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE OWNER.
- ALL FLOOR MATERIALS AND COLOR CHANGES FROM ROOM TO ROOM SHOULD OCCUR AT THE CENTER LINE OF DOOR PANEL, ENCASMENT OPENING, OR AS INDICATED BY THE DRAWINGS.
- CONTRACTOR TO CONFIRM ALL INDIVIDUAL LOCK SETS AND THEIR KEYING REQUIREMENTS, THE QUANTITY AND MASTERING SYSTEM WITH THE OWNER.
- ALL HEIGHTS ARE MEASURED FROM THE TOP OF SLAB UNLESS INDICATED OTHERWISE.
- ALL TELEPHONE EQUIPMENT, WIRING, CONDUITS, ETC., SHALL BE SUPPLIED AND INSTALLED BY THE OWNER AT THEIR EXPENSE. WHERE TELEPHONE COAXIAL OUTLETS ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE PULL STRING. TELEPHONE OR COAXIAL CABLE REQUIRED TO BE LOCATED IN AN EXTERIOR OR INTERIOR WALL SILL BELOW A GLASS PANEL OR AN OPEN ENCASMENT OF THE WALL SHALL BE ACCESSED WITH THE MEANS OF CONDUIT AND PULL STRING.
- ALL TELEPHONE LINES SHALL BE TEFLON COATED AND MEET WITH THE LATEST CODE REQUIREMENTS IN JURISDICTION.
- CONTRACTOR SHALL PROVIDE 3/4" PLYWOOD PANEL PAINTED TO MATCH ADJACENT WALL, FOR TELEPHONE EQUIPMENT. MOUNT PANEL, SIZE AND LOCATION, AS SHOWN IN DRAWINGS.
- ALL OCCUPANT FURNITURE, EQUIPMENT AND MISCELLANEOUS WILL BE PROVIDED AND INSTALLED BY EQUIPMENT CONTRACTOR. THE EQUIPMENT LISTED IN DRAWINGS SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL REVIEW EQUIPMENT AND ARCHITECTURAL DRAWINGS IN ORDER TO VERIFY ANY DISCREPANCIES, ERRORS, OR OMISSIONS WITHIN THE CONTRACT DOCUMENTS. INDICATE ANY AND ALL CONFLICTS TO THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK.
- MATERIALS WHICH ARE CUSTOM-ORDERED FOR THE PROJECT AND WHICH CANNOT BE RETURNED ARE TO BE SUBMITTED FOR SAMPLE APPROVAL PRIOR TO SHIPMENT OF MATERIAL. ARCHITECT IS TO BE NOTIFIED IMMEDIATELY OF ANY ITEMS WITH LONG DELIVERY TIMES.
- SAMPLES OF CUSTOM PAINT COLORS ARE TO BE SUBMITTED FOR ARCHITECTS APPROVAL PRIOR TO PURCHASE OF MATERIALS.
- THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS SHALL DOCUMENT AS-BUILT CONDITIONS WHEN DIFFERENT FROM THE CONSTRUCTION DOCUMENTS, AND SHALL PROVIDE SAID DOCUMENTATION TO THE ARCHITECT UPON COMPLETION OF THE WORK.

MILLWORK NOTES

- THE CONTRACTOR SHALL PROVIDE FOR THE MILLWORK TO CONFORM TO THE DETAILS SHOWN ON THE DRAWINGS AND SHALL BE FABRICATED IN ACCORDANCE WITH THE ARCHITECTURAL WOODWORKING INSTITUTE AND THEIR REQUIREMENTS FOR CUSTOM GRADE QUALITY CONSTRUCTION, UNLESS NOTED OTHERWISE.
- PROVIDE ALL FINISHES AS REFERENCED ON THE DRAWINGS AND ELEVATIONS AND AS NOTED IN THE SPECIFICATIONS FOR FINISHES.
- SUBMIT SAMPLES FOR REVIEW BY THE ARCHITECT FOR APPEARANCE AND FINISH ONLY.
- ALL MILLWORK FABRICATORS SHALL PROVIDE EDGING ON ALL EXPOSED WOOD PARTICLE BOARD AND/OR PLYWOOD EDGES. ALL EDGING SHALL RUN CONTINUOUSLY AND BE SOLID MATERIAL MATCHING FACE VENEER EXCEPT FOR FIR PLYWOOD, WHICH SHALL BE EDGE BANDED WITH FAS CLEARGLUM. MITER EDGING AT CORNERS AND GLUE SURFACES SOLIDLY.
- INSTALL THE WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. ALL DIMENSIONS, PROFILES, JOINTS AND REVEALS SHALL BE HELD EXACT. INSTALL CABINET DOORS AND DRAWERS SO THEY FIT OPENINGS PROPERLY AND ARE PROPERLY ALIGNED - ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENCUMBERED OPERATION. COMPLETE THE INSTALLATION OF HARDWARE AND ACCESSORY ITEMS AS INDICATED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWING SHOWING THE LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE SCALE DETAILS, ATTACHMENT DEVICES AND OTHER RELATED COMPONENTS. CONTRACTOR TO SUBMIT ONE (1) SEPIA MYLAR OF EACH ORIGINAL AND THREE (3) BLUE LINE PRINTS OF EACH ORIGINAL FOR ARCHITECTS APPROVAL.

MILLWORK HARDWARE

- UNLESS NOTED OTHERWISE, ALL CABINETS SHOWN IN DRAWINGS AND WHICH ARE APPLICABLE TO THE PROJECT SHALL RECEIVE THE FOLLOWING HARDWARE. REFER TO CABINET ELEVATIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PULLS: "STANLEY 4484" / US 26

MAGNETIC CATCHES: STANLEY NO. 41 / ONE PER DOOR PANEL. TWO PER DOOR PANEL 4'-0" HIGH OR HIGHER.

DRAWER GLIDES: GRANT NO. 329 - ONE PAIR PER DRAWER.

HINGES: "STANLEY 335" / US 26 - EQUALLY PLACED AT TOP, MIDDLE, AND BOTTOM.

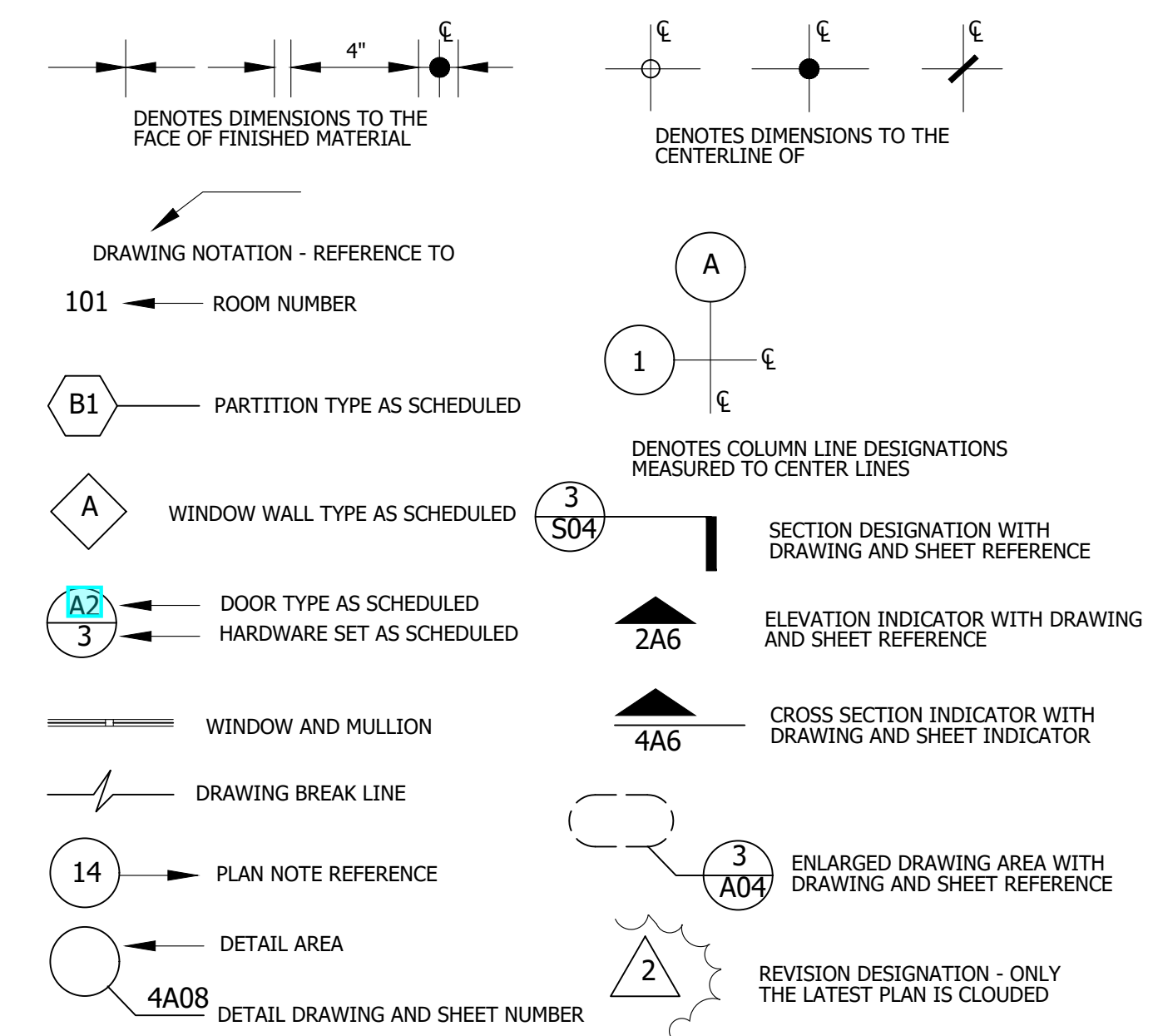
LOCKS: "CORBIN 15760" / US 26

CABINET SHELF STD. AND BRACKETS: K AND V 255NP AND 256NP, MAXIMUM 5'-0" FOR SHELF LENGTH, 4 PER SHELF

OPEN SHELVING STD. AND BRACKETS: K AND V 80 PLUS 180 MANUFACTURER STANDARD "WHITE" PAINTED FINISH AT 3'-0" ON CENTER, WITH MINIMUM 2 PER SHELF

IN CASE OF SUBSTITUTION, CONTRACTOR SHALL SUBMIT TO ARCHITECT SAMPLES OF PROPOSED MILLWORK HARDWARE WITH PRIOR APPROVAL OF OWNER FOR ARCHITECTS FINAL APPROVAL.

GENERAL GRAPHIC SYMBOLS



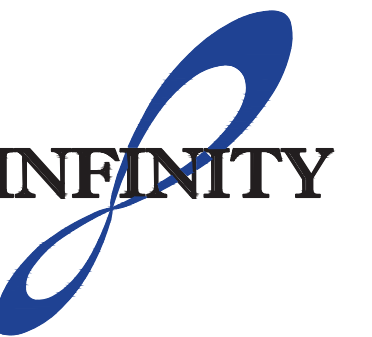
ABBREVIATIONS OF TEXT

ACST	ACOUSTICAL	ID	INSIDE DIAMETER	SATC	SUSPENDED ATC
ARCH	ARCHITECTURAL	INSF	INSULATING FILL	SECY	SECRETARY
ATC	ACCT CEILING TILE	INSUL	INSULATION	SHLV	SHELVING
BD	BOARD	JT	JOINT KIT KITCHEN	SHWR	SHOWER
BLK(G)	BLOCK(ING)	KP	KICK PLATE	SO	SENIOR OFFICER
BOL	BOLLARD	KS	KITCHEN SINK	SPC	SUSPENDED PLAS CLG
BR	BEDROOM	LAB	LABORATORY	SR	SENIOR
BSMT	BASEMENT	LAM	LAMINATE	STC	SOUND TRANMS COEFF.
CAB	CABINET	LAV	LAVATORY	STG	SEATING STOR STORAGE
CER	CERAMIC	LVR	LOUVER	SUB	SUBCONTRACTOR
CHBD	CHALK BOARD	MLD	MOLDING	SYM	SYMMETRICAL
CJ	CONSTRUCTION JOINT	MTR	METAL FURRING	TKBD	TACK BOARD
CJT	CONTROL JOINT	MUL	MULLION	T&G	TONGUE AND GROOVE TB
CLO	CLOSET	MW	MILLWORK	TZ	TILE BASE
CLRM	CLASSROOM	THR	THRESHOLD	THR	THRESHOLD
CLWC	CLEAR WIRE GLASS	TRWLD	TROWEL LED	UNFN	UNFINISHED
COMP	COMPUTER	UNFN	UNFINISHED	US	UNLESS
CORR	CORRIDOR	NO.	NUMBER	VCT	VINYL COMPOSITION TILE
CPL	CEMENT PLASTER	NST	NON-SLIP TREAD	VB	VINYL BASE
CPT	CARPET	NTS	NOT TO SCALE	VCB	VINYL COVE BASE
CT	CERAMIC TILE	OFF	OFFICE	VVC	VINYL WALL COVERING
DC	DOOR CLOSER	OPH	OPPOSITE HAND	VP	VISION PANEL
DEPT.	DEPARTMENT	OPENING	OPENING	WDW	WINDOW
DJ	DUMMY JOINT	PBD	PARTICLE BOARD	WGL	WIRE GLASS
DR	DOOR	PLAS	PLASTER	WHSE	WAREHOUSE
DWR	DRAWER	PLYWD	PLYWOOD	WLCOV	WALL COVERING
EF	EACH FACE	PREP	PREPARATION	WSCT	WAINSCOT
EJC	EXPANSION JOINT COVER	PT	PAINT(ED)	WW	WINDOW WALL
EJT	EXPANSION JOINT	PW	PASS WINDOW		
EXEC	EXECUTIVE	QT	QUARRY TILE		
FAS	FASTEN	QTY	QUANTITY		
FJT	FLUSH JOINT	RB	RUBBER BASE		
FL(G)	FLOOR(ING)	RECEP	RECEPTION		
FRM	FRAME	REFL	REFLECTED		
GDR	GUARD RAIL	RPH	ROOF HATCH		
GL	GLASS	RH	RIGHT HAND		
GWB	GYPSUM WALL BOARD	RLG	RAILING		
GYP	GYPSUM	RT	RUBBER TILE		
HDW	HARDWARE	RVS	REVERSE		
HM	HOLLOW METAL				
HPT	HIGH POINT				

MANUFACTURERS STANDARDS

APA AMERICAN PLYWOOD ASSOCIATION 1119 A STREET TACOMA, WASHINGTON 98401 (206) 272-2283	HPMA HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION BOX 6246 ARLINGTON, VIRGINIA 22206 (703) 671-6262
AWI ARCHITECTURAL WOODWORK INSTITUTE 5035 SOUTH CHESTERFIELD ROAD ARLINGTON, VIRGINIA 22206 (703) 671-9100	NPA NATIONAL PARTICLE BOARD ASSOCIATION 2306 PERKINS PLACE SILVER SPRINGS, MARYLAND 20910 (301) 587-2204
BHMA BUILDERS HARDWARE MANUFACTURERS ASSOCIATION 60 EAST 42ND STREET NEW YORK, NEW YORK 10017 (212) 682-8142	NPCA NATIONAL PAINT AND COATING ASSOCIATION 1500 RHODE ISLAND AVENUE N.W. WASHINGTON, D.C. 20005 (202) 462-6272
CRI THE CARPET AND RUG INSTITUTE 310 HOLIDAY DRIVE BOX 2040 DALTON, GEORGIA 30720 (404) 278-3176	TCA TILE COUNCIL OF AMERICA, INCORPORATED BOX 326 PRINCETON, NEW JERSEY 08540 (609) 921-7050
DHI DOOR AND HARDWARE INSTITUTE 1815 N. FT. MYER DRIVE SUITE 412 ARLINGTON, VIRGINIA 22209 (703) 527-2069	UL UNDERWRITERS LABORATORIES INCORPORATED 207 EAST OHIO STREET CHICAGO, ILLINOIS 60611 (312) 642-6969
GA GYPSUM ASSOCIATION 1603 ORRINGTON AVENUE EVANSTON, ILLINOIS 60201 (312) 491-1744	WFI WOOD AND SYNTHETIC FLOORING INSTITUTE 1000 PICK WICK AVENUE GLEN VIEW, ILLINOIS 60029 (312) 724-7700
	WIC WOODWORK INSTITUTE OF CALIFORNIA 850 S VAN NESS SAN FRANCISCO, CALIFORNIA 94109

Date	Revision	No.
01/04/2024	ISSUE CLIENT COMMENTS - REV 1	2
03/12/2023	ISSUE FOR PERMIT	1
	Revision/Issue	



INFINITY ENGINEERING GROUP, LLC

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 Tampa, Florida 33602
 [p]: 813-434-4770
 [f]: 813-445-4211
 www.ieggroup.net
 FL Cert. of Auth. No. 27889

Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS

Sheet Title
ARCHITECTURAL INFORMATION

Project No.
 170-95.00

Sheet

Drawn By:
 KM

Checked By:
 AFO

AN2.1

SECTION 01010 - SUMMARY OF WORK

A. SCOPE: The Work, as defined in the general conditions as described in the Contract Documents is summarized as follows:

Construct a single story retail facility with metal stud frame construction, reinforced plaster wall panels, metal shell standard fascia, single ply membrane roof, on metal decking, aluminum windows and entrances, interior drywall partitions, millwork, hollow metal doors and frames, acoustic ceilings, floors, finishes toilet room accessories, equipment site work, and mechanical, plumbing and electrical work.

B. RELATED WORK PROVIDED BY THE OWNER
Refer to schedules on drawings.

C. PRIOR ENTRY:

1. Owner reserves the right to prior entry to completed and partially completed areas for performance of other work to be performed under other contracts.
2. Confirm construction operations, materials, and equipment storage, apparatus, temporary construction, equipment, and other construction related activities to such limits and portions of the Project Site, as designated by the owner, and indicated on the drawings.
3. Do not use adjacent properties including private properties and that of public domain, for material and equipment storage or for construction operations without the specific written approval of any and all authorities having full and proper jurisdiction.

SECTION 01018 - OWNER PROVIDED DOCUMENTS

A. COPIES OF CONTRACT DOCUMENTS: The owner will supply to the contractor one set of contract documents, free of charge, for construction purposes. Additional sets will be available to the Contractor if he pays for the cost of reproduction.

B. COPIES OF SUPPLEMENTARY CONTACT DOCUMENTS: The following owner provided documents are hereby designated as Supplementary Contact Documents. The architect does not guarantee their contents as to accuracy, completeness, or suitability.

1. Soils Report
2. Survey

SECTION 01025 - MEASUREMENTS AND PAYMENT

A. PROGRESS SCHEDULE AND COST BREAKDOWN: Within 21 days after the execution of the Contract, submit, in acceptable form, anticipated progress schedule showing subdivision of contract into various items of permanent construction, stating quantities and prices as a basis for computing value to owner of permanent reusable parts of a facility to be paid for on monthly estimates. No payment will be made to the Contractor until such a schedule has been submitted and approved.

B. PROGRESS PAYMENTS: Monthly payments will be made of the value of completed work, and materials stored at the site, less retainage. Owner will not pay for materials stored of site. Payment of owner will be made in reasonable time of the date the application was received. Contractor will pay for all permits, fees, local and state taxes.

1. RETAINAGE: Retainage of 10 % of amount due to the Contractor will be held by the owner until 30 days after substantial substantial completion.

SECTION 01070 - DEFINITIONS

A. THE CONTRACT DOCUMENTS: The Drawings are those enumerated in the "List of Drawings" and identified in the contract. The drawings in many instances are schematic and do not define exact locations of every part and piece of this work. Items furnished may vary in dimension and in other ways vary from specific items called for in the Contract Documents. In some cases determine the exact location of each part by measurements, drawings from equipment manufacturers, and coordination with other work.

B. SPECIFICATIONS:

1. The format of the Specifications divides the work into Major Divisions and Work Sections attempts to group the work in each section by source of material or by trade, solely for the convenience of the users. No trade jurisdictions are intended or implied.
2. The outline form and imperative voice are typically used to omit repetitious use of words or word groups (such as "furnish and install," "Contractor shall" and other similar statements,) and to call for the type of materials and methods and limit the use in the briefest possible manner. Such words omitted from the text shall be construed to be included just as if they were repeated each time.

C. MINIMUM COMPLIANCE STANDARDS AND INDUSTRY SPECIFICATIONS:

Materials and operations specified by reference to published specifications of a manufacturer, a society, an association, a code, or other referenced standard, shall comply with the current requirements of referenced document, officially published on or before the date of the receipt of bids.

SECTION 01410 - TESTING LABORATORY SERVICES

A. An independent testing laboratory may be selected by the owner to inspect and test the materials and methods of construction as hereinafter specified for compliance with the contract documents.

B. The owner will pay for the initial laboratory testing of materials that comply with the requirements of the contract documents. The contractor shall pay for the testing and retesting of the material that do not comply with the requirements of the contract document.

C. STRUCTURAL CONCRETE:

1. AGGREGATE TEST: Check the proposed aggregate in accordance with the ASTM C 33.
2. MIX DESIGN: Check the proposed mixes for proportions, water cement ratio and slump in accordance with ACI 613 and 316.
3. SLUMP TEST: Take slump test ASTM C 443 at the beginning of each days pouring operations and whenever water adjustments are noticeable of slump occurs
4. SAMPLING:
 - a. Make five standard cylinders at the beginning of each placement. Take extra samples at noticeable change in the concrete makeup.
 - b. Take four additional test cylinders for every one hundred cubic yards or fraction thereof. Cure of ASTM C 192.
 - c. Perform sampling in compliance with ASTM C 172
5. TESTING: Test cylinders for compression in accordance to ASTM C 39.
6. LABORATORY CURE: 2 cylinders in accordance with ASTM C 192.
7. FIELD CURING: remaining cylinders in accordance with ASTM C 31.
8. Test Cylinders two at seven days, and two at twenty eight days averaging test results. Testing remaining cylinders at fifty five days.

SECTION 01510 - TEMPORARY FACILITIES

- A. CONSTRUCTION FACILITIES: Provide the following facilities for the use of all personnel, subcontractors and all authorized personnel.
1. TOILET FACILITIES: Provide sanitary and adequate facilities to meet the legal requirements.
 2. DRINKING WATER: provide clean drinking water with disposable paper cups and containers for the used cups.
 3. ELECTRIC: Provide connections and controls for 115V, single phase power with control within 200 feet of locations used.
 4. LIGHTING: Provide 50 foot-candles for construction purpose where daylight is not adequate.
 5. CONSTRUCTION WATER: provide adequate water lines and hoses with control within 200 feet of locations used
 6. HOISTING FACILITIES: Provide hoisting equipment as necessary, for light construction material complying with jurisdictional safety codes.

B. FIELD OFFICE:

1. Provide and maintain a weathertight building with lockable door and windows to serve as job office available to the contractor, subcontractor and owner. Provide light, air-conditioning and heating as needed. Provide a drawing table with lockable doors and a drafting bench. Remove office from the premises when one can be set up inside the building.
- A. STORAGE FACILITIES:
3. Provide and maintain a weathertight storage facilities raised with a six inch minimum above the ground with sides and tops enclosed, and lockable doors.
 4. Replace materials improperly stored and damaged by normal or predicted weather conditions. Remove storage facility when materials can be properly stored in a weathertight condition.

D. GRAPHICS:

4. JOB SIGN:
 - a. SIZE: nominal 64 square feet
 - b. MATERIAL: 1/2 inch APA exposure 1 or exterior plywood A-C grade or MD overlay.
 - c. POSTS: 4 inches by 4 inches, 2 required
 5. FRAMING AND BRACES: 2 inches by 4 inches.
 6. LETTING: Name of job, owner, contractor.
- Project sign will be done by a professional sign painter

f. LAYOUT AND COLOR SELECTION: As specified solely by the owner.

E. RESTORATION OF SIGNS: No advertising signs may be installed anywhere on the sight

SECTION 01600 - MATERIALS AND EQUIPMENT

A. SUBSTITUTIONS:

1. Submit all proposed substitutions after the award of the contract in writing with sufficient information samples and differences in cost of evaluation. Do not make substitutions unless approved in writing.
2. Prepare quotations for proposed changes in the work in a "break down" form giving the number of units, unit cost material, hours of labor, hourly cost of labor, tool costs, overhead and profit, reflecting credit as well as extras.

B. USE MATERIALS THAT ARE:

1. New and high quality suited to the use of intended except wherein noted as used.
2. Suitable for the function intended.
3. Corresponding in quality to related materials in the absence of a definitive Specification.
4. Of good experience where exposed to view.
5. Of one manufacturer or source for the same specific purpose with uniform appearance and physical properties.
6. Plainly marked and delivered to the site in original unopened containers when the nature of container is suitable for containers.

Work BY OTHERS: Arrange to accommodate N.I.C. When information is adequate request more information before proceeding.

D. Follow manufacturers instructions. When such instructions are in conflict with the Contract Documents make request for clarification before proceeding. Keep a copy of the manufacturers instructions on the job.

E. Perform high quality professional workmanship. Join material to uniform, accurate fit so that they meet with straight lines, free of smears or overlap. Install exposed materials appropriately leveled, plumb, and accurate right angles or flush with adjoining materials. Attach materials with sufficient strength, number and spacing of attachments that will not fail until materials joined and are broken or permanently deformed.

SECTION 01700 CONTRACT CLOSE-OUT

A. SUBSTANTIAL COMPLETION:

1. When the contractor determines that the Work is substantially complete, the contractor will send a written notice to the owner that the project is substantially complete and requests an inspection of the work.
2. Within a reasonable time after receipt of the contractors notice claiming substantial completion, the owner will make an inspection of the work to determine the state of completion and will prepare a punch list of items requiring completion or correction.
3. If during the course of inspection the owner determines the work substantially complete, he will discontinue the inspection and will notify the contractor that the work does not comply with requirements of substantial completion.
4. Immediately after the receipt of notice that the work is not substantially complete, the contractor shall correct the deficiencies and send a second written notice to the owner as specified above.
5. When the owner feels the work meets the requirements of substantial completion, the owner will prepare a certificate of substantial completion, AIA Document G704.
6. The contractor shall prepare and submit to the owner a list of items to be completed or corrected within the time constraints established on the certificate of substantial completion.
7. The owner will review and amend the list of items to be completed or corrected and append the complete list to the certificate of substantial completion.

B. MANUALS, INSTRUCTIONS AND KEYS:

1. The contractor shall assemble and deliver to the owner printed or typewritten, operating servicing and maintenance and cleaning instructions and part list for all items of equipment provided as part of the contract. Include names and address of local representative of each unit of equipment used manuals of equipment containing lists of different equipment.
2. Provide two copies of each required manual including mechanical and electrical portions of work.
3. The contractor shall provide services of skilled and competent supervisory personnel to instruct the owners personnel in operation and maintenance of all operating equipment and systems provided as part of the contract.
4. Upon completion of work, the contractor shall deliver all keys including master keys and any special keys and two copies of the keying ring to the owner and will assist the owner in deactivation of construction keyed locks used on the projects.

C. RELEASE OF LIENS:

1. The contractor shall deliver to the owner a blanket release of liens covering all work performed under this contract, including that of subcontractors, subscontractors, vendors and other suppliers of materials and labor. Execute the release of liens on the documents similar to AIA Document G706 "Contractors affidavit of payment of debtors and claims and G706A " Contractors affidavit of release of liens."
2. The forms will be executed by authorized officer and notarized. All required attachments will be included as noted on AIA document G706. If exceptions are listed in either AIA G706 or Document G706A, the contractor shall furnish bond satisfactory to the owner for each exception.
3. No final payment will be made by the owner to the contractor until all release of liens have been delivered to the owner.

D. GUARANTEES, BONDS, AND INSPECTION CERTIFICATES:

1. The contractor shall have guarantees on upon materials and workmanship as required by article 13 of the AIA general conditions and special guarantees and bond required by the contract document executed in the owners name.
2. Prior to making the application to final payment, the contractor shall collect and assemble all required guarantees and bonds and deliver them to the owner.
3. The contractor shall collect and assemble all required guarantees and bonds and deliver them to the owner. The contractor shall collect and assemble all required certificates of inspection, testing, approval, and deliver them to the owner.

E. WARRANTIES:

1. Furnish written warranties to the owner including specific items in each product warranty stipulated in the individual section.
2. Secure and transmit required inspection certificates.
3. Repair and replace damaged portions of the construction, under warranty, when damages result from faulty materials and negligent workmanship.
4. Warrant that modifications or substitutions suggested by the contractor will give satisfactory results and that they will be equal or superior to the specified item or method unless shortcoming are specifically listed in the request for modification or substitution.

F. FINAL COMPLETION:

1. When the work has been completed fully in accordance with the requirements of the contract, the contractor shall send a written notice claiming final completeness and shall specify each note on the punch list as being complete or any incomplete item.
2. The contractor shall submit final application for payment indicating adjustment and accounts including original contract sum, additions and deductions as included on charge orders, cash allowances, deductions on incorrect work, and other requirements listed in the documents contract, including the Consent of Surety Company to final payment, AIA Document G707.
3. Upon receipt of the contractors notice claiming final completion the owner will perform a final inspection, and if the work is fully complete in accordance with the requirements of the document contract, the owner will issue a certificate of completion, and a certificate for final payment.

G. TERMINAL INSPECTION:

1. Immediately prior to expiration of the one year guarantee period, the contractor shall make an inspection of the project in the company of the owner. The owner shall not be given less than five days notice prior to the anticipated date of terminal inspection.
2. Where any portion of the work has been proven to be defective and requires replacement, repair, or adjusting, the contractor shall immediately provide materials and labor necessary to repair such defective work and shall execute work until completed and to the satisfaction of the owner even though that the date of completion has past the expiration date of the guarantee period.
3. The contractor shall not be responsible for work that has been damaged due to neglect or abuse by the owner nor the replacement parts necessitated by normal wear and tear.

SECTION 01710 - CLEANING

A. PERIODIC CLEANING:

1. GARBAGE COLLECTIONS: Provide a garbage can at each location on the site as used as an eating area. Pick up all garbage not deposited in cans daily. If garbage is left overnight cover cans. Remove garbage from cans weekly. Keep the site free from garbage, trash, and vermin infestation.
2. TRASH REMOVAL: Clean the work area of trash once a week. When rapid accumulation occurs remove trash more frequently. Remove highly combustible trash every day, paper cardboard, wood.
3. DISPOSITION OF DEBRIS: Remove debris from site and make legal disposition. Locations for disposal shall be of contractors choice. No debris may be buried or burned on site. Take necessary precautions to prevent accidental burning of materials by avoiding large accumulations of combustible materials.

B. FINAL CLEANING:

1. The work area shall be thoroughly cleaned inside and outside. Cleaning includes removal of smudges marks and stains, fingerprints, soil dirt spots, dust lint, and any other foreign matter from finished and exposed surfaces.
2. Remove all temporary facilities.

SECTION 02110 - SITE CLEARING AND GRUBBING

A. VEGETATION PRESERVATION: Do not remove trees or shrubs without the specific approval of the architect. Damaged vegetation will be replaced.

B. REQUIREMENTS OF REGULATORY AGENCY: Adhere to state and local code requirements for the disposal of trees and shrubs removed from site.

C. OWNERSHIP OF REMOVED MATERIALS AND VEGETATION: Unless noted otherwise, removed property become property of the contractor.

D. PROTECTION OF VEGETATION: Rope or fence off vegetation that is to remain to prevent damage.

E. Grubbing: Grubb construction depth to a minimum of one foot to the existing grade.

SECTION 02200 - EARTHWORK

- A. The surface report governs existing subsurface conditions.
- B. CONCEALED CONDITIONS: Variations from the contract document for conditions not apparent at the start of the work will be adjusted as described in the contract conditions.
- C. SOIL STIFFNESS: When soil concerning subsurface soil stiffness is not available assume an angle of repose 45 degrees under optimum moisture conditions. No angle of repose can be assumed when soil is under adverse condition. Where concrete is shown vertical or steeper than the angle of repose forms are required.
- D. GOVERNING DOCUMENTS: The following documents governs the work.
1. Occupational safety and Health Administration, recommendations, Chapter XVII, 1926.625
 2. IN TEXAS: Texas trench laws, HB 662 and HB 665

E. EXCAVATION INSPECTION: Do not place concrete in footing excavations without the architects inspection.

F. FILL AND BACK FILL MATERIAL: Select fill material under placed under slabs foundation and paving shall comply with the following requirements. Materials may be provided if it is made to comply with the use of admixtures sand or lime.

1. LIQUID LIMIT: 30 to 45.
2. PLASTICITY INDEX: 7 to 20.
3. LINEAR SHRINKAGE: 10 % maximum.
4. PURITY: No stones or debris larger than 3 inches

G. COMPACTING: Provides 90 % maximum density under walks and grassy areas. 95 % minimum anywhere elsewhere. Add water or dry out to maintain optimum moisture content. ASHTO compaction test method T-99, performed at optimum moisture. Place fill in layer not to exceed 6 inches after completion.

H. COMPACTING OF GRANULAR FILL: Compact trench under slabs as follows:
1. 12 INCHES OR LESS: provide granular mineral sand in loose non stratified deposits per ASTM D 2488.
2. THICKNESS: 2 inches under walks and 4 inches elsewhere.

4. COMPACTING: Compact to support concrete without settlement during placing.

J. VAPOR BARRIER: Provide a 6 mil polyethylene plastic film vapor barrier under floor slabs placed on earth.

I. SAND LAYER:

1. LOCATION: Where sand cushion is noted under concrete slabs.
2. MATERIAL: well graded inorganic mineral sand in loose non stratified deposits per ASTM D 2488.
3. THICKNESS: 2 inches under walks and 4 inches elsewhere.
4. COMPACTING: Compact to support concrete without settlement during placing.

J. VAPOR BARRIER:

1. LOCATION: Where sand cushion is noted under concrete slabs.
2. MATERIAL: well graded inorganic mineral sand in loose non stratified deposits per ASTM D 2488.
3. THICKNESS: 2 inches under walks and 4 inches elsewhere.
4. COMPACTING: Compact to support concrete without settlement during placing.

J. VAPOR BARRIER: Provide a 6 mil polyethylene plastic film vapor barrier under floor slabs placed on earth.

SECTION 02246 - SOIL STABILIZATION

A. Coordinate the requirements of the structural drawings with the requirements of this section. If a conflict exist notations on the structural drawings take precedence. Refer to the soil reports and survey for existing subsurface conditions.

A. MINIMUM COMPLIANCE STANDARDS: Comply with all applicable governmental standards. unauthorized use of these chemicals is strictly prohibited.

B. Warrant the work herein for five years. Defects shall include but not be limited to the following:

1. termite activity
2. Damage of building material caused by termites
3. Include replacement of materials caused by termites within the warranty period.

D. APPLICATOR: Applicator shall be bonded to reform this type of work. Where local licensing is available or required, applicator shall be licensed to perform this type of work.

E. POISON DILUTENT: Potable water

- F. Provide EPA approved chemicals of the following types:
1. ORGANOPHOSPHATES: Dursban TC, Dow chemicals USA, Midland MI 48274 (517) 658-1000.
 2. PYRETHOIDS:
 - a. Dagnet FT: FMC Corp. Agricultural chemical group Philadelphia, PA 19103 (215) 299-6000.
 - b. Demon TC: ICI Americas Inc. Wilmington DE 19899 (303) 575-3000
 - c. Torpedo: ICI Americas Inc. Wilmington DE 19899 (303) 575-3000
 - d. Tribute: Velisical chemical Corp. Rosemont Ill 60018 (312) 698-0700

G. QUANTITIES OF WORKING SOLUTION: Provide one gallon per 10 square feet under the building slab, and 2 gallons per 5 linear feet at the slab perimeter.

H. PROCEDURES: Notify the supervising authority before commencing work, do not apply poison to soil that are excessively wet. Apply solution immediately after placing vapor barrier.

SECTION 02510 - CONCRETE CURBS WALKS AND PAVING

A. WORK GOVERNED BY OTHER SECTIONS: The actual work of this segment remains within this section, but subject to the applicable requirements of division 3 - Concrete.

B. MINIMUM COMPLIANCE STANDARDS: Work in accordance with the following:

1. ACI 316 and ACI 325
2. Portland cement Assoc. PA017 and PL136
3. ACI 302

C. CONCRETE MATERIALS: Provide 3000 PSI gray concrete with air in training and water reducing with accelerating and retarding compounds.

D. PAVING AND CURB JOINTER FILLING: Provide 3/4 inch thick clear heart construction grade redwood with dowels as detailed on the drawings.

E. PAVING JOINT SEALING COMPOUND: Provide a single component, rubberized, hot applied sealing compound similar to allied NO. 9005 complying with F.S. SS-S-1401B.

F. SLOPE FOR DRAINAGE: Slope walks, driveways, paving and gutters.

G. TOOLING:

1. EDGING: Edge walks and paving edges to 3/8 inch radius at expansion joints and where needed to for a neat appearance.
2. JOINTING: Where shown on the drawing as control joints or tool joints.
3. CONTROL JOINT: 3/4 inch wide. Use wrap smooth dowels to maintain alignment.
4. TOOLED JOINT DEPTH: 1/4 inch unless otherwise specified
5. WORKMANSHIP: Remove marks and tooling from the surfaces

H. FINISH: light broom or belt finish with lines perpendicular to traffic.

SECTION 06100 - ROUGH CARPENTRY

A. GENERAL REQUIREMENTS FOR LUMBER:
1. STANDARDS: PS-20-70 American softwood lumber standard and PS- 143 soft plywood.

2. GRADING: SPSA, SPB, WMPA, WCLB, AND APA
3. MARKING: Stamp each piece with grade assoc.
4. SPECIES: Douglas Fur and Southern Yellow Pine
5. FINISH: Provide S4S finish unless otherwise specified
6. SEASONING REQUIREMENT: Kin Dry or Air Dry to 15 % max. moisture content.
7. GRADES: comply with the minimum grades for each specific use as specified by the specific grading assoc. such as southern pine use guide.

Table 2 as specified in the structural guide

B. WOOD TREATMENT FOR THE ABOVE GROUND LOCATIONS: Stamp each piece of lumber with the type of treatment and amount of retention. Redry water born treatment to 19 % and stamp S DRY

1. APPLICATION: apply pressure or vacuum treatment comply with the AWPB standards.
2. LOCATIONS: Provide treated wood at the following locations:
 - a. where shown on the drawing
 - b. wood members resting on concrete or masonry
 - c. ground imbedded in concrete or masonry
 - d. Blocking or grounds imbedded in construction in such a manner as to prevent exposure to circulating air.
3. CUT TREATMENT: treat cuts by dipping in preservatives

C. PLYWOOD: Provide PS-143 softwood plywood marked with APA grade trademarks indicating quality of wood. Only plywood with APA stamp will be acceptable

D. PLYWOOD ROOF SHEATHING: Mark each piece with APA grade trademarks as noted above. Maintain a 1/8 inch gap between cross gaps.

1. PLYWOOD THICKNESS: 1/2 to 1 inch, use 8d common nails
2. SPACING: 6 inches at edges and 12 inches in field

E. INSTALLATION:

1. set wood framing accurately and neatly, brace well and nail securely. Frame on 16 inches from the center or as indicated on the drawing.
2. Set wood grounds for attachments of work specified in other sections.
3. Use washers on bolts to attach wood, use galvanized treated bolts and washers.
4. Use galvanized metal framing anchors beam seats and clips where indicated

SECTION 06190 - WOOD TRUSSES

A. MINIMUM COMPLIANCE STANDARDS : the following documents govern the work except where more restrictive requirements are specified.

1. AMERICAN INSTITUTE OF TIMBER CNSTRUCTION
2. TRUSS PLATE INSTITUTE

B. APPROVED MANUFACTURES:

1. Automated building Systems; Dept. T, Lufe Cox Drive BOX 537, Johnsons city TN, 37601
2. Gang-Nail Southwest; 4707 west Westminsterland, Dallas TX, 75237
3. All Pan Inc.; Southwest Houston TX, 77054-4602

C. LOADING: unless noted otherwise comply with the strongest combination of the following:

1. building code
2. max deflection of 1/240 of a span with the ceiling
3. max deflection of 1/360 of a span with the ceiling
4. live load refer to the drawing

D. CONSTRUCTION DETAILS:

1. TRUSS MEMBERS: stress rated lumber; 19 % max moisture NO. 1
2. FASTENERS: galvanized steel gang nail plate connectors

E. INSTALLATION: Anchor the trusses in place as recommended by the manufacturer and in accordance with building codes

					01/04/2024		Date
					03/12/2023		
					ISSUE CLIENT COMMENTS - REV 1		
					ISSUE FOR PERMIT		
							Revision/Issue
				2	1		No



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www.iggroup.net
FL Cert. of Auth. No. 27889

NISIT SAPPARKHAO, P.E.
FL REG. NO. 64005

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
Sheet Title
PERFORMANCE SPECIFICATIONS

Project No
170-95.00
Sheet
Drawn By:
KM
Checked By:
AFO
AN3.0

Sheet Title
Project No
170-95.00
Sheet
Drawn By:
KM
Checked By:
AFO
AN3.0

Project No
170-95.00
Sheet
Drawn By:
KM
Checked By:
AFO
AN3.0

SECTION 06220 - MILLWORK

A. MINIMUM COMPLIANCE STANDARDS: "Quality Standards of the Architectural Woodwork Industry (AWI).

B. PLASTIC LAMINATE: Submit full range of colors, patterns, textures, and finishes of plastic laminate available for selection. Use horizontal grade typically. Vertical grade may be used for cabinet interiors and vertical surfaces of cabinets. Use balance sheet as required by AWI. Cores shall be 3/4 inch PS-183 BD Exposure 1 plywood and edges shall be self-edge unless specified otherwise.

1. "Newam", Exxon Chemical Co.

C. SOLID STOCK:
1. MOISTURE CONTENT: 8 %-13 % at time of installation.
2. NATURAL FINISH HARDWOOD: Comply with AWI "Premium" Grade.
3. PAINT GRADE HARDWOOD: Any species without coarse grain.

D. SOFTWOOD PLYWOOD: PS-183
1. EXPOSED: Medium Density Overlay (MDO).
2. SEMI-EXPOSED: Grade B
3. CONCEALED: Grade D.

E. MATERIAL THICKNESSES: The following thickness shall apply except when shown thicker on the Drawings:
1. **BOTTOMS, ENDS, DIVISIONS:** 3/4 inch thick.
2. **FACE PLATES:** Equal to door thickness with 3/4 inch minimum.
3. **WEB FRAMES:** 3/4 inch minimum.
4. **BACKS AND DRAWER BOTTOMS:** 1/4 inch plywood, over 24 inches wide require center bottom support. Limit backs with braces to 12 square feet.
5. **DRAWER FRONTS:** 3/4 inch.
6. **DRAWER BACKS AND SIDES:** 1/2 inch.
7. **SHELVES:** Unsupported, exposed shelves 3/4 inch thick to 36 inches and 1 inch minimum to 42 inches.
8. **BASES:** Design to space 3 inches deep x 4 inches high x 1/2 inch deep recessed base across exposed ends.
9. **DOORS:** 3/4 inch minimum thickness, except when shown greater on the Drawings.

F. CABINET HARDWARE: Prepare the millwork for the installation of the hardware.

G. INSTALLATION: Place level, plumb, and at right angles to adjacent work. Where field cutting or trimming is necessary, perform in a neat, accurate, professional manner without damaging the product and adjacent work. Attach securely so the products will perform to their maximum ability without damage resulting from inadequate fastenings.

H. TYPICAL CABINETS: AWI "Custom: grade with plastic laminate tops and exposed surfaces. Semi-exposed surfaces shall be plastic laminate except drawer shells shall be wood.

SECTION 07160 - DAMPROOFING

A. WARRANTY: Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to, the following:
1. Leaking water or bitumen.
2. Relieving from the substrate.

B. PRODUCT DATE: Submit schedules, charts, literature, and illustrations to indicate the performance, fabrication procedures product variations and accessories.

C. DAMPROOFING MATERIALS:
1. **DAMP-PROOFING MEMBRANE:** "Tyvek" polyester film; or
2. **FELT:** TD 225 Type 1, No. 15 asphalt coated felt.
3. Attach dampproofing to surface in single fashion, starting at the base flashing with adhesive.
4. Imbed dampproofing into adhesive as necessary to securely hold in place. Staple sheet into plywood at the top of each sheet 8 inches on center and lap the next sheet over the staples and imbed in adhesive.

SECTION 07175 - WATER REPELLENT

A. PRODUCT DESCRIPTION:
1. **GENERAL:** Water clear, fast drying, penetrating, water repellent liquid compound.
2. **VEHICLE:** Water-alcohol formulation.
3. **SOLIDS:** Siloxane formulation.

B. PROPERTIES:
1. **REPELLENCE:** No water penetration on surface as evidenced by absence of wet discoloration.
2. **ADHESION:** No interference with the adhesion of sealer. If tests show interference, mask off sealer areas, or apply repellent after sealer are installed.
3. **SHEN:** Zero sheen.

C. DISCOLORATION: No change in color or tone.
5. RESISTANCE TO HOUSEHOLD CHEMICALS: ASTM D 1308; no change in color, finish or adhesion.

C. APPROVED MANUFACTURERS: Specifications are based on first names Manufacturer. Other approved manufacturers must meet or exceed this standard.
1. "CP-500", Chemical Products, Oklahoma City, OK, (800) 624-4356.
2. "Chem-Trete-BSM", Trocal, Rockleigh, NJ 07647 (800) 631-1688.
3. "Dual Treat", Dural International Corp., Deer Park, NY, 11729 (516) 586-1655.
4. "Duxbac", Clover Chemical Corp., Houston, TX 77181 (713) 880-5447.
5. "Siloxane" Weather Seal, ProSoCo, Inc. Kansas City, KS 66177 (913) 281-2700.
6. "Chemstop SMS-250", Tamms Industries Co., Itasca, IL, 60134 (312) 773-1870.

D. Follow manufacturer's recommended application procedures.

SECTION 07211 - BATT AND BLANKET INSULATION

A. MINIMUM COMPLIANCE STANDARDS: The following Documents govern the Work except where more restrictive items are specified:
1. Federal Specifications HH-521F, Type III.
2. American Society of Heating, Refrigeration, and Air Conditioning Engineers.
3. National Environmental Systems Contractors Association.

B. INSULATION: Mineral wool or glass fiber bats or blanket conforming to E.P.A. energy conservation requirements and F.S. HH-521F, Type III.
1. **LIL RATINGS:** Maximum flame spread of 25, fuel contributed of 50, and smoke developed of 50 when tested per ASTM E 84.

2. THERMAL RESISTANCE: "R" values are listed in the ASRAE Guide for batt and blanket insulation. Provide 6 inch R-23 for roof and 6 inch R-19 for walls. Provide aluminum foil laminated to one side with flanges for stapling application.

C. INSTALLATION: Positively attach edges as ends to prevent gaps or openings in the vapor barrier. Install blankets with the vapor barrier to the warm side. Butt sides and edges of blankets together to avoid gaps in insulation. Do not cover insulation until the installation has been inspected and approved.

SECTION 07220 - ALUMINUM COMPOSITE MATERIAL PANELS

A. QUALITY ASSURANCE:
1. Composite Panel Manufacturer shall have a minimum of 5 years experience.
2. Fabricator/ installer shall be acceptable to composite panel manufacturer.
3. Maximum deviation from vertical and horizontal alignment of erected panels shall not exceed 6 mm in 6 m.

B. SUBMITTALS: Submit two samples of each type of assembly and color or finish selected, 6" x 6" minimum, with details of clips, anchors, etc. for approval by Architect prior to fabrication.

C. MATERIALS:
1. **COMPOSITE PANELS:** Provide aluminum composite material panels, "Alpolic" as manufactured by Mitsubishi Kasei America, Inc. or "Reynobond" as manufactured by Reynold Metals Co.

a. Thickness: 3mm (0.118 inches).
2. FINISHES: Manufacturer's custom colors as approved by Owner, in locations as indicated on drawings.
a. Silver- metallic finish.
b. Red - gloss finish.
3. **Humidity Resistance:**
a. Test Method ASTM D-1735
b. Coating shall receive a rating of 8 per ASTM D -1654 after 2000 hours.
4. **Weathering:**
a. Test method Sunshine Arch Weatherometer, Type E run in accordance with ASTM G023 and D-822
b. No cracking, peeling, blistering or adhesion loss after 2000 hours.
c. No color change greater than 5 NBMS units measured per ASTM D- 2244.
d. Shall not chalk in excess of 8 when rated per ASTM D-659.

D. ACCESSORIES: Provide non-corrosive, concealed fasteners and fastening systems as recommended by panel manufacturer and shown on the drawings.

SECTION 07425- REINFORCED POLYMER COMPOSITE PANEL

A. WARRANTY: Warranty the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to, the following:
1. Warping, cracking, corrosion, delamination, or releasing from the substrate.
2. Loss of aggregate finish, discoloration, or fading.
3. Leakage of water into the building or within the construction.

B. SUBMITTALS: Provide shop drawings indicating typical fasteners, details, etc.. All outside corners to be mitered and sealed; inside corners to be butt-joined and sealed. Provide 2" X 2" sample for approval.

C. MATERIALS: "Texaco Steno" wall panel with embedded aggregate facing, as manufactured by United Panel Inc. with 8" x 8" stacked bond pattern, with color-matched fasteners, size and placement per mg's recommendation. Treat exposed face with protective UV coating. Routed joints shall be coated with a high gloss protective film. Standard panel thickness is 5/16". Material shall comply with the following:
1. Flexural Strength: 6900 PSI per ASTM D -790.
2. Compressive Strength: 9700 PSI per ASTM D- 695.
3. Tensile Strength: 2400 PSI per ASTM D-638.
4. Modulus of Elasticity: 671,000 PSI per ASTM D-790.

SECTION 075423- THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

A. WARRANTY: Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to, the following:
1. Peeling, cracking, blistering, alligating, or releasing from the substrate.
2. Softening or becoming tacky.
3. Leakage of water into the building or within the construction.

B. PRECONSTRUCTION CONFERENCE: Prior to commencing work meet with following parties to discuss the roof materials, conditions and installation procedures.
1. Construction Superintendent.
2. Roof Material Manufacturer's Representatives.
3. Owner.

C.1 MATERIALS: Adhered Fabric-Reinforced Thermoplastic Polyolefin Sheet, ASTM D 6878, internally faced or scrim reinforced, uniform, flexible TPO sheet.
1. **MANUFACTURER:** Firestone Building Products Company
2. **THICKNESS:** 80 mils, nominal.
3. **EXPOSED FACE COLOR:** White (Comply with Solar Reflectance Index performance requirements)
4. **SHEET FLASHING:** Manufacturer's standard unreinforced thermoplastic polyolefin sheet flashing, 55 mils thick, min, of same color as membrane.
5. **BONDING ADHESIVE:** Manufacturer's standard solvent-based bonding adhesive for membrane, and solvent-based bonding adhesive for base flashings.
6. **METAL TERMINATION BARS:** Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8" thick, with anchors.
7. **FASTENERS:** Factory-coated steel fasteners and metal or plastic plates complying with corrosion resistance provisions per FM Approvals 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
8. **FLEXIBLE WALKWAYS:** Factory-formed, nonporous, heavy-duty, slip-resisting, surface textured walkway pads or rolls, approximately 3/16" thick, and acceptable to membrane roofing system manufacturer.
C.2 MATERIALS: Pre-formed roof insulation boards, manufactured by TPO membrane roofing manufacturer, selected from manufacturer's standard sizes and in thickness required by local code types.
1. **POLYISOCYANURATE BOARD INSULATION:** ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facing on both major surfaces.
2. **TAPERED INSULATION:** Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches unless otherwise noted.
3. **FASTENERS:** See C.1.7 of this specification section.
C.3 MATERIALS: Roof Cover board 1/2 inch thick
1. **MANUFACTURER:** Georgia Pacific Corporation or United States Gypsum Co.
D.1 PREPARATION: Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
1. Prevent materials from entering or clogging roof drains and conductors and from spilling into adjacent work areas. Remove roof-drain plugs when no work is taking place or when rain is forecasted.
2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections at the end of the day or when rain is forecasted.
D.2 INSULATION INSTALLATION:
1. Comply with membrane roofing system and insulation manufacturer's written instructions for installing roof insulation.
2. Install tapered insulation under area of roofing to conform to slopes indicated.
3. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches in each direction.
4. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.
5. Install coveboards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction. Loosely butt cover boards together and fasten to roof deck.
A. Fasten cover boards according to requirements in "RoofNac" for specified Windstorm Resistance Classification.
D.3 ADHERED MEMBRANE INSTALLATION:
1. Adhere membrane roofing over area to receive roofing and install according to membrane roofing system's manufacturer's written instructions.
2. Start installation of membrane roofing in presence of membrane roofing system manufacturer's technical personnel.
3. Accurately align membrane roofing and maintain uniform side and end laps of minimum dimensions per manufacturer. Stagger end laps.
4. Bonding Adhesive: Apply to substrate and underside of membrane roofing at rate required by manufacturer and allow to partially dry before installing membrane as required by manufacturer. Do not apply to splice area of membrane roofing.
5. In addition to adhering, mechanically fasten membrane roofing securely at terminations, penetrations and perimeter of roofing.
6. Seams: Clean seam areas, overlap membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's written instructions.
SECTION 07620 - BUILDING SHEET METAL

A. MINIMUM COMPLIANCE STANDARDS: The following Documents govern the Work except where more restrictive requirements are specified:
1. Sheet Metal Manual of the Sheet Metal and Air Conditioning Contractor's National Association (SMACNA).

B. WARRANTY: Warrant the work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to the following:
1. Leaking.
2. Wrinkling.
3. Breaks or tears caused by restraint of expansion and contraction.

C. SHOP DRAWINGS: Indicate size, material, and finish. Show locations and installation procedures. Include details of joints, attachments, and clearances.

D. GALVANIZED SHEET STEEL MATERIAL:
1. **QUALITY STANDARD:** ASTM A 257, coating designation G 90.
2. **FINISH:**
a. **METAL PREPARATION:** Prepare surface for painting in compliance with ASTM D 2090 recoating requirements.
b. Prefinish sheet metal with polyester enamel finish 1 mil minimum thickness.

E. GALVANIZED SHEET GAUGES: 24 gauge minimum.
1. Clips used for attachment shall be two gauges thicker than the piece they retain.
2. **FASTENERS:** Galvanized, cadmium, and stainless steel.

F. MATERIAL COMPATIBILITY: Provide mutually compatible materials and fastening where in contact. If not available, isolate incompatible materials to prevent electrolysis.

G. INSTALLATION:
1. Prime flanges and other metal in contact with roofing membrane.
2. Bed sheet metal flanges on roof membrane with flashing cement.

SECTION 07655- BASE FLASHING

A. MATERIALS: Provide a synthetic elastomeric compound waterproofing material with thermoplastic fibers added for extra tensile strength and tear resistance, laminated to a 7 mil vinyl film. Provide Phox Gyp+Flash as manufactured by Phox Enterprises, Inc. 11210 S. Post Oak Rd., Houston, Texas 77035 (713) 726-1800.

B. PREPARATION: Clean surfaced free of dust, loose rust, plaster, mortar, paint droppings, and other materials that may prevent permanent adherence to the substrate. Apply primer with brush or lambs wool roller at the rate of 250 to 250 square feet per gallon. Allow primer to dry a minimum of 1 hour. Remove primer from finish surfaces with Toluene or similar solvent. Use primers recommended by the manufacturer.

C. INSTALLATION: Install tape at locations requiring base flashing to channel water out of weep holes. Extend membrane to within 1 inch of face of masonry, and a minimum of 8 inches up the vertical substrate. Lap vertical joints of flashing tape a minimum of 2 inches. Lap horizontal joints of flashing tape a minimum of 2 inches in direction of water flow.

C. COMPONENTS:
1. **WALLS: GALVANIZED STEEL.**
2. **WOOD MILLERS:** Factory installed.

D. Install curb assemblies in accordance with manufacturer's specifications.

SECTION 07920 - SEALANTS AND CAULKING

A. WARRANTY: Warrant the Work specified herein for 2 years against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship.
1. Sealing shall include, but not be limited to:
a. Defects from abutting materials or filler.
b. Migrating, bleeding into, or staining abutting materials.
c. Unslightly surface deformation by causes other than movement.
d. Excessive color change, chalking, or dust pick-up.
e. Failing adhesively or cohesively.
f. Hardening to more than 25 % over stated hardness.
2. Warrant that sealants exposed to windloads will resist the design windload of the local building code with maximum strength factor on the sealant of 20 psi with a safety factor of 6 to 1.

B. PRODUCT DATA: Submit schedules, charts, literature and illustrations to indicate the performance, fabrication procedures, product variations, and accessories.

C. EXTERIOR SEALANTS AND SEALANTS FOR MOVING JOINTS: Curing type, two part bulk compounds conforming to F.S. TT-S-0022E (3), or one part conforming to F.S. TT-S-001543A. Provide compounds that cure by polymerize by solvent release, moisture absorption, or catalyst.

1. APPROVED BASIC INGREDIENTS: Polysulfide, silicone, polyurethane, or polyethylene, terpolymer.
2. **NON-ACCEPTABLE:** Linseed oil or other oil base caulks, asphaltic, or coal tar types. Acrylic, hypalon, and butyl base types.
3. **SOLIDS:** 96 % minimum by volume.
4. **CURED HARDNESS:** (Shore A durometer) Maximum of 30.

D. INTERIOR SEALANTS: All exterior sealants plus the following types.
C.3 MATERIALS: Roof Cover board 1/2 inch thick
1. **MANUFACTURER:** Georgia Pacific Corporation or United States Gypsum Co.
D.1 PREPARATION: Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
1. Prevent materials from entering or clogging roof drains and conductors and from spilling into adjacent work areas. Remove roof-drain plugs when no work is taking place or when rain is forecasted.
2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections at the end of the day or when rain is forecasted.
D.2 INSULATION INSTALLATION:
1. Comply with membrane roofing system and insulation manufacturer's written instructions for installing roof insulation.
2. Install tapered insulation under area of roofing to conform to slopes indicated.
3. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches in each direction.
4. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.
5. Install coveboards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction. Loosely butt cover boards together and fasten to roof deck.
A. Fasten cover boards according to requirements in "RoofNac" for specified Windstorm Resistance Classification.
D.3 ADHERED MEMBRANE INSTALLATION:
1. Adhere membrane roofing over area to receive roofing and install according to membrane roofing system's manufacturer's written instructions.
2. Start installation of membrane roofing in presence of membrane roofing system manufacturer's technical personnel.
3. Accurately align membrane roofing and maintain uniform side and end laps of minimum dimensions per manufacturer. Stagger end laps.
4. Bonding Adhesive: Apply to substrate and underside of membrane roofing at rate required by manufacturer and allow to partially dry before installing membrane as required by manufacturer. Do not apply to splice area of membrane roofing.
5. In addition to adhering, mechanically fasten membrane roofing securely at terminations, penetrations and perimeter of roofing.
6. Seams: Clean seam areas, overlap membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's written instructions.
SECTION 07620 - BUILDING SHEET METAL

A. MINIMUM COMPLIANCE STANDARDS: The following Documents govern the Work except where more restrictive requirements are specified:
1. Sheet Metal Manual of the Sheet Metal and Air Conditioning Contractor's National Association (SMACNA).

B. WARRANTY: Warrant the work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to the following:
1. Leaking.
2. Wrinkling.
3. Breaks or tears caused by restraint of expansion and contraction.

C. SHOP DRAWINGS: Indicate size, material, and finish. Show locations and installation procedures. Include details of joints, attachments, and clearances.

D. GALVANIZED SHEET STEEL MATERIAL:
1. **QUALITY STANDARD:** ASTM A 257, coating designation G 90.
2. **FINISH:**
a. **METAL PREPARATION:** Prepare surface for painting in compliance with ASTM D 2090 recoating requirements.
b. Prefinish sheet metal with polyester enamel finish 1 mil minimum thickness.

E. GALVANIZED SHEET GAUGES: 24 gauge minimum.
1. Clips used for attachment shall be two gauges thicker than the piece they retain.
2. **FASTENERS:** Galvanized, cadmium, and stainless steel.

F. MATERIAL COMPATIBILITY: Provide mutually compatible materials and fastening where in contact. If not available, isolate incompatible materials to prevent electrolysis.

G. INSTALLATION:
1. Prime flanges and other metal in contact with roofing membrane.
2. Bed sheet metal flanges on roof membrane with flashing cement.

SECTION 07655- BASE FLASHING

A. MATERIALS: Provide a synthetic elastomeric compound waterproofing material with thermoplastic fibers added for extra tensile strength and tear resistance, laminated to a 7 mil vinyl film. Provide Phox Gyp+Flash as manufactured by Phox Enterprises, Inc. 11210 S. Post Oak Rd., Houston, Texas 77035 (713) 726-1800.

B. PREPARATION: Clean surfaced free of dust, loose rust, plaster, mortar, paint droppings, and other materials that may prevent permanent adherence to the substrate. Apply primer with brush or lambs wool roller at the rate of 250 to 250 square feet per gallon. Allow primer to dry a minimum of 1 hour. Remove primer from finish surfaces with Toluene or similar solvent. Use primers recommended by the manufacturer.

C. INSTALLATION: Install tape at locations requiring base flashing to channel water out of weep holes. Extend membrane to within 1 inch of face of masonry, and a minimum of 8 inches up the vertical substrate. Lap vertical joints of flashing tape a minimum of 2 inches. Lap horizontal joints of flashing tape a minimum of 2 inches in direction of water flow.

C. COMPONENTS:
1. **WALLS: GALVANIZED STEEL.**
2. **WOOD MILLERS:** Factory installed.

D. Install curb assemblies in accordance with manufacturer's specifications.

SECTION 09665 - SYNTHETIC RUBBER SHEET FLOORING

A. WARRANTY: Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to the following:
1. Releasing from substrate.
2. Opening up at joints.
3. Failure to comply with NFPA Bulletin no. 56.
B. APPROVED MANUFACTURERS: Specifications are based on first named manufacturer. Other approved manufacturers must meet or exceed these requirements.
1. Flexco Division of Textile Co., Inc., Tusculum, AL 35674 (205)383-7474.
2. Nora Flooring Division of Robus Products Corp., Madison, IN 47250 (812)737-1852.
3. Jaso/Fretell Industrial Inc., Fairfield, NJ 07006 (201)227-4904.

C. MATERIAL:
1. **THICKNESS:** 1/8 inch
2. **SIZE:** 18'x18'
3. **FRAME SPREAD:** class A ASTM E 84
4. **STUDS:** 1 1/2 inch in diameter raised .025
5. **SIZE:** 18'x18'
6. **FRAME SPREAD:** class A ASTM E 84
7. **COLOR AND MODEL:** light gray and RGT - 754
8. **ADHESIVE:** same brand as flooring material

SECTION 09678

A. Warrant the work herein specified for one year against becoming unsevice or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include but not be limited to the following:

1. warping, buckling shrinking or cracking
2. softening or discoloring
3. coming loose
A. MATERIALS:
1. **MATERIALS:** rubber
2. **SIZE:** 1/8 inch thick height shown on drawing
3. **COLOR:** as selected by architect from full manufacturers range

C. APPLICATION:
1. butt end to hairline fl, avoid stretching
2. place base with joints under compression and so toe continually touches.

SECTION 09900:

A. Warrant the work herein specified for one year against becoming unsevice or causing an objectionable appearance resulting from either defective or limited to the following:

1. COLOR CHIPS: Provide a complete set of color chips for the color selection.
2. SMALL APPLIED COLORS: Provide pieces of actual material on which paint will adhere.
3. SHEEN SAMPLES: Provide full range of varying sheen when sheens are controllable by mixing.
4. MATERIAL LIST: Give the manufacturers name, product no., and generic description of each proposed product.
C. COLORS: Refer to finish schedule.

D. PREPATORY WORK:
1. Protection Work: Arrange procedures and devices to protect other work from disfigurement and physical damage. Repair and replace materials damaged as a result of the work of the section.
2. Steel and Iron: Remove grease oil and dust and touch up chipped and absorbed places on items that have been primed using same type of primer.
3. Concrete Masonry: Check for high moisture and alkali content. If high alkali is present neutralize to suitable level.
4. Substrates General: Provide normal minor patching on surfaces provided under other sections of work. Excessive patching or treatment is not permitted.

E. MANUFACTURER'S INSTRUCTIONS: Follow the manufacturer's preprinted instructions as a minimum requirement for the use and installation products.
1. **APPEARANCE:** Provide uniform color texture and sheen.
2. **NEATNESS:** Do not smear splatter or run coating over adjoining colors.
F. PAINT THICKNESS: Provide the minimum dry film thickness per coat.
1. Interior: 1 mil.
2. Exterior:
a. Enamels on Metals: 1 mil
c. Acrylic Urethane: per manufacturer recommendation.
d. Latex Paint: 1 mil
e. Metal Primers: 1.5 mil
f. Under Coats: 1.5 mil
g. Oil Paint: 1.5 mil
h. Traffic Lines: 2.5 mil

G. COMPATIBILITY OF PAINT TYPES: Verify the compatibility of each type of finish coat with shop primers and between field coats. When necessary switch paint types or use a block coat to avoid interference between paints.

H. TYPICAL EXTERIOR SYSTEM:
1. Galvanized Metals:
2. one coat zinc dust and primer or epoxy ester
3. two coats semi gloss enamel
2. Steel or Iron:
1 coat touch up primer
1 coat iron oxide primer
2 coats semi gloss enamel
3. Thickness Test: Use visual observation gauge.

I. TYPICAL EXTERIOR SYSTEMS:
1. Painted wood:
1 coat oil base enamel
2 coat satin enamel
2. gypsum dry wall:
1 coat sealer and primer
2 coats flat latex or oil base enamel
3. Steel:
1 coat touch up primer
2 coats semi gloss enamel

5. for specific project details and bill of materials, see USG Interiorsdrawings provided by USG Interiors sales representative. USG Interiors shall submit complete installation drawings including all trim pieces, attachment clips, splice plates and corner pieces, installation of related lighting and air distribution components, access requirements, and sound absorption requirements.

C. ACOUSTIC CEILING BOARD: Mineral board, non-directional fissured, medium textured.
1. **TYPES:** Refer to the Finish Schedule.
SIZE: 24 inch x 24 inch x 5/8 or 3/4 inch.
2. **NOISE REDUCTION COEFFICIENT:** 0.60 - 0.60 type 7 mounting.
4. **SOUND TRANSMISSION CLASS:** Minimum 35 to 39 db.
5. **FLAME RESISTANCE:** Class A, incomustible per F.S. SS-S-118A.
6. **FLAME SPREAD:** Class 1 (0-25) per ASTM E 84.

D. APPROVED MANUFACTURERS: Use only one manufacturer's products.
1. Armstrong World Industries, Inc., Atlanta, GA 30339 (404)955-1888.
2. The Celotex Corp., Tampa, FL 33607 (813)871-4554.
3. United States Gypsum Co., Chicago, IL 60606-4385 (312)321-4000.

E. Install suspension System in accordance with manufacturer's relevant requirements and ASTM C 636.

F. SPACING AND SUPPORT:
1. Space hangers minimum 6 inches from end and 4 feet between ends.
2. Provide additional hangers for items to be supported by ceiling suspension system to prevent eccentric deflection or rotation of support.
3. Support main runners directly from hangers; do not bear on walls or partitions.
4. Space main runners to support acoustic panels and other Work resting in or on the ceiling.
5. Interlock cross-runners with main runners.
6. Adjust suspension system every 20 feet to plus or minus 1/4 inch from module in both directions.

SECTION 09665 - SYNTHETIC RUBBER SHEET FLOORING

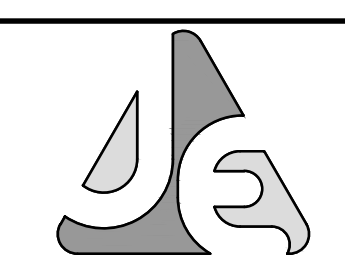
A. WARRANTY: Warrant the Work specified herein for one year against becoming unseviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to the following:
1. Releasing from substrate.
2. Opening up at joints.
3. Failure to comply with NFPA Bulletin no. 56.
B. APPROVED MANUFACTURERS: Specifications are based on first named manufacturer. Other approved manufacturers must meet or exceed these requirements.
1. Flexco Division of Textile Co., Inc., Tusculum, AL 35674 (205)383-7474.
2. Nora Flooring Division of Robus Products Corp., Madison, IN 47250 (812)737-1852.
3. Jaso/Fretell Industrial Inc., Fairfield, NJ 07006 (201)227-4904.

C. MATERIAL:
1. **THICKNESS:** 1/8 inch
2. **SIZE:** 18'x18'
3. **FRAME SPREAD:** class A ASTM E 84
4. **STUDS:** 1 1/2 inch in diameter raised .025
5. **SIZE:** 18'x18'
6. **FRAME SPREAD:** class A ASTM E 84
7. **COLOR AND MODEL:** light gray and RGT - 754
8. **ADHESIVE:** same brand as flooring material

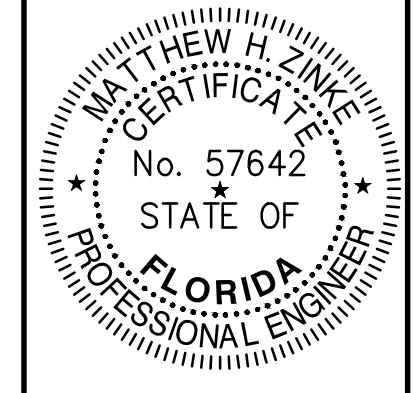
SECTION 09678

A. Warrant the work herein specified for one year against becoming unsevice or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include but not be limited to the following:

1. warping, buckling shrinking or cracking
2. softening or discoloring
3. coming loose
A. MATERIALS:
1. **MATERIALS:** rubber
2. **SIZE:** 1/8 inch thick height shown on drawing



JENKINS ENGINEERING, INC.
 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 JECIVIL.COM
 C.O.A. NO. 9927 - L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
 FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION
1	8/17/2023	CITY/FOOT/NWFWD COMMENTS
2		
3		
4		
5		
6		
7		
8		

THE FIKES COMPANIES
CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA
EROSION CONTROL & DEMOLITION PLAN
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

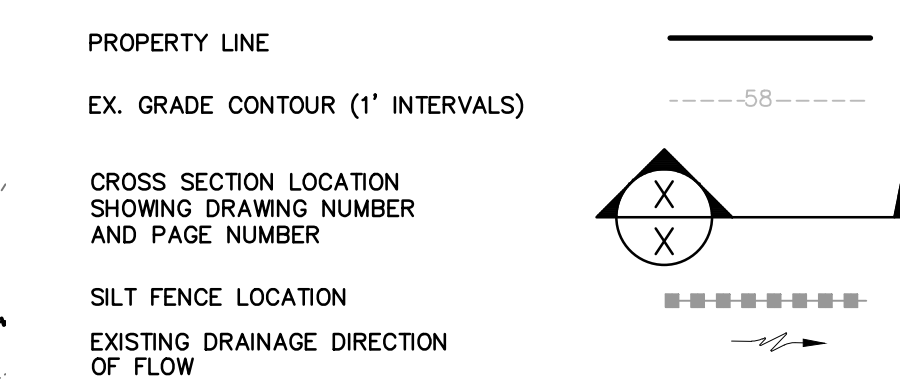
JOB: 22-72
 DATE: 2/20/2023
 DESIGNED: BF/MZ
 DRAWN: BF
 BAR IS ONE INCH ON ORIGINAL
 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY
 DRAWING NUMBER
 2 OF 12
 SHEET NUMBER
C01

NOTES:

- THE LOCATION OF EXISTING FEATURES SHOWN HEREON IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ALL UTILITIES WITH EACH UTILITY COMPANY. THE CONTRACTOR SHALL NOT START ANY RELOCATION OF UTILITIES UNTIL PRIOR APPROVAL RECEIVED FROM EACH UTILITY COMPANY.
- ALL EXCESS SOIL MATERIAL, IF ANY, SHALL BE STORED ON-SITE IN THE LOCATION SHOWN FOR LATER USE OR REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN A MANNER APPROVED BY CITY OF DEFUNIAK SPRINGS. LOCATION OF TEMPORARY DISPOSAL SITE TO BE FIELD DETERMINED BY CONTRACTOR AND CAN SHIFT TO ACCOMMODATE CONSTRUCTION SEQUENCING AS LONG AS PROPER EROSION CONTROLS ARE MAINTAINED.
- NO WORK SHALL BE PERFORMED WITHIN THE RIGHT OF WAY, WITHOUT THE PROPER MAINTENANCE OF TRAFFIC (M.O.T.) IN PLACE ACCORDING TO THE APPROPRIATE 600 SERIES INDEX. A CERTIFIED WORK-SITE TRAFFIC SUPERVISOR SHALL SET UP THE M.O.T.
- AN FDEP NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR THIS PROJECT AREA AND IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH CITY OF DEFUNIAK SPRINGS THAT THE PERMIT HAS BEEN OBTAINED PRIOR TO COMMENCEMENT OF SITE WORK. THE SITE CONTRACTOR WILL CONDUCT WEEKLY OR MORE OFTEN INSPECTIONS OF THE EROSION CONTROL MEASURES AS REQUIRED BY NPDES. THESE INSPECTION REPORTS WILL BE PROVIDED TO THE CITY OR MADE AVAILABLE ON SITE.
- CONTRACTOR TO ERECT SILT/SEDIMENTATION CONTROLS, AS DEPICTED HEREIN, PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL EROSION CONTROL MEASURES, INCLUDING PERIMETER CONTROLS, SITE ENTRANCE, INLET PROTECTION, AND SEDIMENT BASINS ARE TO BE REGULARLY INSPECTED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. IN ADDITION TO THE NPDES PERMITTEE'S INSPECTIONS, CITY OF DEFUNIAK SPRINGS MAY ALSO INSPECT AND MONITOR THE EROSION CONTROL MEASURES AND PROVIDE RESULTS TO THE NPDES PERMITTEE.
- THE CONTRACTOR SHALL VERIFY THAT ALL APPLICABLE PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- TOPOGRAPHIC INFORMATION BY GUSTIN, COTHERN AND TUCKER, INC., DATED 05/01/2023. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988.
- LOCATION OF CONSTRUCTION ENTRANCE AND BERM TO BE FIELD DETERMINED BY CONTRACTOR AND CAN SHIFT ALONG PROPERTY LINE TO ACCOMMODATE CONSTRUCTION SEQUENCING.
- ANY SILT FENCE AND SAFETY FENCING LOCATIONS ARE FOR ILLUSTRATIVE PURPOSES ONLY. SILT FENCE/SAFETY FENCING IS TO BE INSTALLED ALONG PROJECT BOUNDARY OR AT LIMITS OF CONSTRUCTION. THE FENCING MAY BE REMOVED AND RELOCATED BY THE CONTRACTOR AS NEEDED TO ACCOMMODATE CONSTRUCTION SEQUENCING.
- CONTRACTOR TO EMPLOY CONSTRUCTION MEASURES AS NEEDED DURING CONSTRUCTION TO PREVENT ANY OFF-SITE EROSION OR SEDIMENTATION. MEASURES COULD INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY BERMS, BASINS, ADDITIONAL SILT FENCING AND HAY BALES AND /OR TEMPORARY SEEDING AND SODDING. CONTRACTOR TO LEAVE NO AREA UN-VEGETATED FOR MORE THAN 7 DAYS.
- LOCATION OF CONSTRUCTION STAGING AREA TO BE FIELD DETERMINED BY CONTRACTOR AND CAN SHIFT TO ACCOMMODATE CONSTRUCTION SEQUENCING AS LONG AS PROPER EROSION CONTROLS ARE MAINTAINED.
- TO PROTECT THE EXISTING UNDERGROUND UTILITIES, A VIBRATORY ROLLER CANNOT BE USED IN THE AREA OF WATER, SEWER OR REUSE MAINS IF THERE IS LESS THAN 3" COVER OVER THE EXISTING UTILITIES
- A COPY OF THE NWFWD ERP PERMIT IS TO BE KEPT ON SITE AT ALL TIMES. VERIFY WITH THE CITY OF DEFUNIAK SPRINGS THAT THE PERMIT HAS BEEN OBTAINED PRIOR TO COMMENCEMENT OF SITE WORK.
- ALL DISTURBED AREAS, WITHIN THE F.D.O.T RIGHT OF WAY, SHALL BE RETURNED TO ORIGINAL CONDITION OR BETTER.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR:
 - MONITORING CONSTRUCTION
 - ENSURING THAT FORMS 62-346.900(3) CONSTRUCTION COMMENCEMENT NOTICE IS FILED WITH THE NWFWD PRIOR TO CONSTRUCTION
 - ENSURING THAT FORMS 62-346.900(4) AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL, ALONG WITH AS BUILT PLANS, ARE PROVIDED AT THE TIME THAT CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND PERMIT DOCUMENTS.

REFERENCE TP:1 TREE PLAN BY ALAN D. HOLT LANDSCAPE ARCHITECT FOR PROTECTED TREE LOCATION, SPECIES, DBH, AND IF IT IS TO BE REMOVED OR PROTECTED

LEGEND:



ESTIMATED CONSTRUCTION SCHEDULE

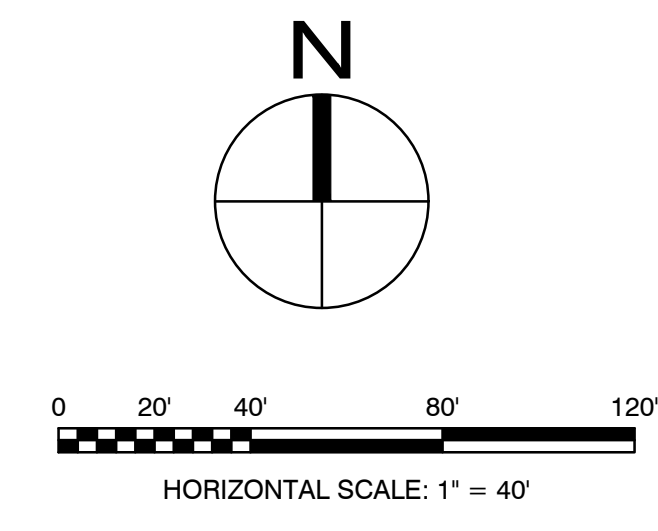
Duration	Activities
0-30 DAYS	INSTALL EROSION CONTROLS, CLEAR EXISTING VEGETATION, DEMOLITION OF EXISTING IMPROVEMENTS, CONSTRUCT STORMWATER RETENTION BASIN
30-90 DAYS	CONSTRUCT UNDERGROUND UTILITIES
90-150 DAYS	GRADING AND CONSTRUCTION OF PARKING AND DRIVES
150-180 DAYS	COMPLETION - STABILIZE SITE, TESTING, FINAL CLEANUP, REMOVAL OF TEMPORARY SILT FENCES

- PRIOR TO CLEARING, SILT FENCING AND EROSION CONTROL SHALL BE INSTALLED ACCORDING TO DETAILS 10/C09 AND 9/C09 OF THE CONSTRUCTION PLANS. THE LOCATIONS ARE DEPICTED ON SHEET C01 AND C03 OF THE CONSTRUCTION PLANS.

- AFTER THE CLEARING AND GRUBBING OF THE SITE, CONSTRUCTION OF THE RETENTION BASIN, AND A ROUGH FINISHED GRADE IS ESTABLISHED, ALL AREAS THAT HAVE BEEN DISTURBED SHALL BE STABILIZED WITH GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH SOD AS INDICATED IN THE CONSTRUCTION PLANS.

- AS INLETS OR MANHOLES ARE INSTALLED ON SITE, THEY ARE TO BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF BY THE USE OF FILTER FABRIC AND PROPERLY INSTALLED SILT FENCING.

- ALL INSTALLATION OF INLETS, PAVING, ROADWAYS, AND EROSION CONTROL DEVICES SHALL CONFORM TO THE APPROVED CIVIL ENGINEERING CONSTRUCTION PLANS.



1 SEDIMENT TRAP BERM SECTION
 NOT TO SCALE



2 STABILIZED CONSTRUCTION ENTRANCE
 NOT TO SCALE



- NOTE:**
- CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING YARD AND/OR STOCKPILE AREAS TO PREVENT OFF-SITE TRACKING SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS.
 - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION THAT WILL PREVENT TRACKING OR FLOWING SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH FDOT #1 COARSE AGGREGATE OR EQUIVALENT THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

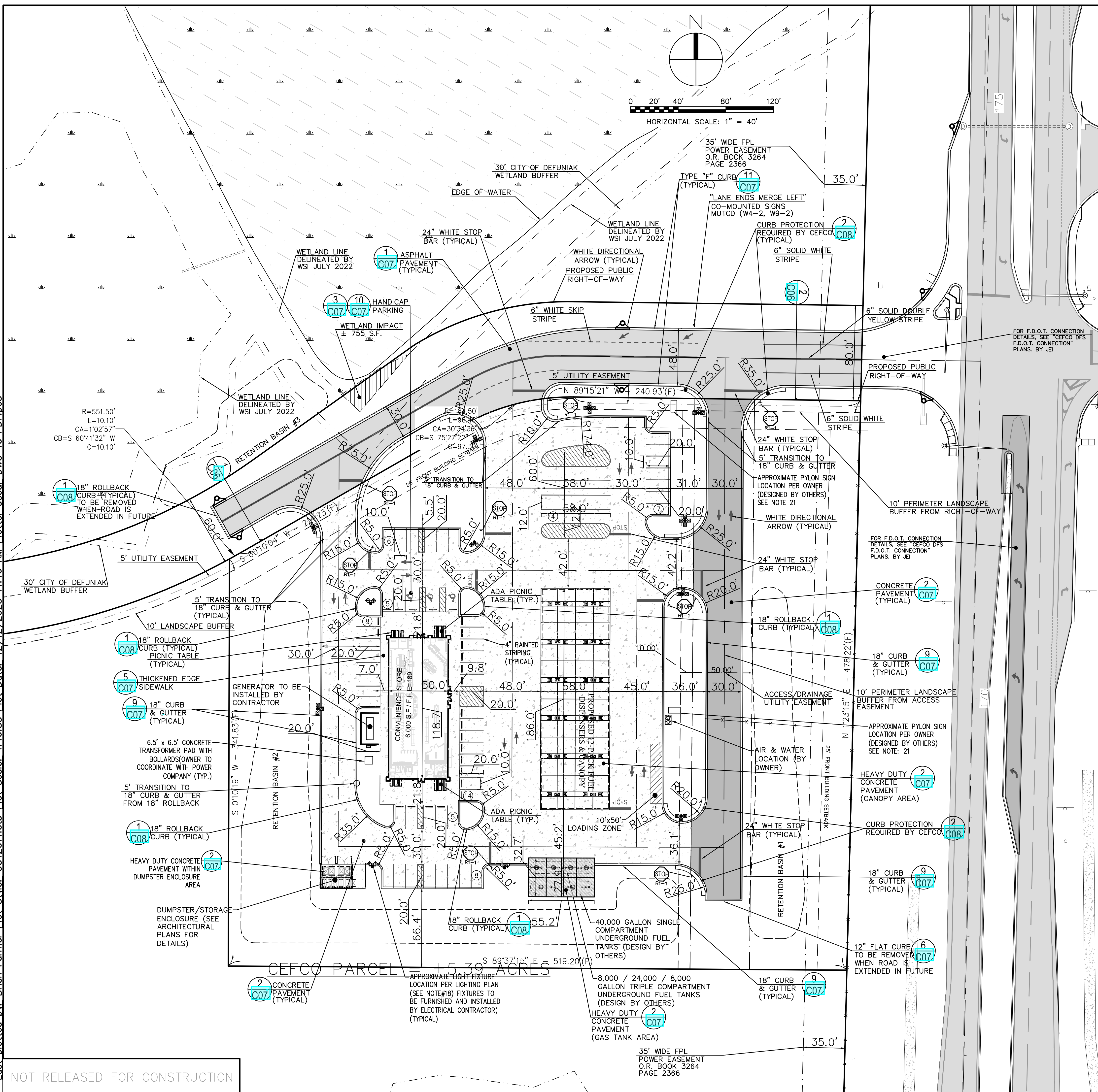
NOTE: FOR BENCHMARKS AND SURVEY CONTROL, SEE ALTA SURVEY BY GCT, DATED 05/01/2023. BENCHMARKS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION.



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NOTE: IF ARCHITECTURAL PLANS HAVE ANY DISCREPANCIES FROM THESE CIVIL PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE CIVIL PLANS ARE REVISED BY THE ENGINEER TO CORRESPOND TO THE LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION COMMENCING.

LEGEND:

ASPHALTIC CONCRETE PAVEMENT	
CONCRETE PAVEMENT	
RIGHT-OF-WAY LINE	
PROPERTY LINE	
EASEMENT LINE	

SITE DATA TABLE:

PARCEL IDENTIFICATION'S:	03-2N-19-18000-010-0000	
EXISTING LAND USE:	AGRICULTURAL	
PROPOSED ZONING:	C-2 GENERAL COMMERCIAL	
PROPOSED FUTURE LAND USE:	COMMERCIAL	
DESCRIPTION:	6,000 s.f. CONVENIENCE STORE (24) FUEL STATIONS	
PROJECT LIMITS AREA:	±298,466 SF / ±6.85 AC	

	ACRE	S.F.
TOTAL PROJECT AREA:	6.85	298,466
TOTAL IMPERVIOUS AREA:	3.61	157,315
BUILDING AREA:	0.137	6,000
PARKING/VEHICULAR AREA:	3.474	151,323
TOTAL OPEN SPACE AREA:	3.24	141,151

BUILDING INFORMATION:

BUILDING HEIGHT (PROPOSED):	ONE STORY (22 FEET)
BUILDING USE:	CONVENIENCE STORE
BUILDING SQ. FT.:	6,000 sq. ft.

	MAXIMUM	PROVIDED
FLOOR AREA RATIO:	1.0	0.02
IMPERVIOUS SURFACE RATIO	90%	52.71%

SETBACKS

	REQUIRED	PROVIDED
FRONT:	±25'	±202'
REAR:	±0'	±152'
SIDE:	±0'	±121'

PARKING:

REQUIRED PARKING: 1 SPACES PER 300 S.F.	REQUIRED	PROVIDED
6,000 S.F. CONVENIENCE STORE:	20 SPACES	57 SPACES
HANDICAP PARKING SPACES:	3 SPACES	3 SPACES

	PROVIDED
TOTAL PARKING SPACES:	57*
HANDICAP SPACES:	3

* INCLUDING HANDICAP SPACES

REFERENCE TP:1 TREE PLAN BY ALAN D. HOLT LANDSCAPE ARCHITECT FOR PROTECTED TREE LOCATION, SPECIES, DBH, AND IF IT IS TO BE REMOVED OR PROTECTED

REFERENCE LATEST CITY OF DEFUNIAK SPRINGS TECHNICAL DEVELOPMENT GUIDE MANUAL FOR UTILITY SPECIFICATIONS.

NOTES:

- PAVEMENT DIMENSIONS ARE MEASURED TO THE FACE OF CURB UNLESS OTHERWISE DIMENSIONED.
- RETURN RADIUS IS 25' UNLESS OTHERWISE DIMENSIONED.
- THIS OVERALL PARCEL LIES IN FLOOD ZONE X (NO MINIMUM) AND FLOOD ZONE "A" (NO BASE FLOOD ELEVATION ESTABLISHED), AS DETERMINED BY SCALE FROM FEMA PANELS #12131C02606 AND #12131C02806, DATED 09/29/2010, AND FURNISHED BY WALTON COUNTY GEOGRAPHIC INFORMATION SERVICE. THE PROJECT AREA IS LOCATED WITHIN ZONE X.
- ALL STREET STRIPING WILL BE THE RESPONSIBILITY OF THE DEVELOPER.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL SIGNAGE IN ACCORDANCE WITH THE LATEST MUTCD STANDARDS.
- THE SIGHT DISTANCE NORTH AND SOUTH ALONG HIGHWAY 331 EXCEEDS 880 FEET WHICH IS REQUIRED BY THE LATEST F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS. PERMITTEE WILL BE RESPONSIBLE FOR CONSTRUCTION IN COMPLIANCE WITH F.D.O.T. SIGHT DISTANCE REGULATION.
- FLORIDA STATE ROAD 83 IS A STATE MAINTAINED RIGHT OF WAY REQUIRING A FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) DRIVEWAY CONNECTION PERMIT.
- ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH LATEST ROADWAY & TRAFFIC DESIGN STANDARDS, LATEST SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, THE PLANS PREPARATION MANUAL (PPM), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONTRACTOR WILL NOT BE PERMITTED TO HINDER TRAFFIC MOVEMENT BY BLOCKING OR PARTIALLY BLOCKING ANY TRAFFIC LANE ON FLORIDA STATE ROAD 83 WITHOUT PRIOR APPROVAL OF THE FDOT.
- ALL LANES MUST BE OPEN FOR TRAFFIC DURING A NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE LOCAL MAINTENANCE ENGINEER OR HIS DESIGNEE.
- NO WORK SHALL BE PERFORMED WITHIN THE RIGHT-OF-WAY UNTIL THE PROPER MAINTENANCE OF TRAFFIC IS IN PLACE ACCORDANCE WITH LATEST ROADWAY & TRAFFIC DESIGN STANDARDS. A CERTIFIED WORKSITE TRAFFIC SUPERVISOR SHALL SET UP THE MUTCD.
- ALL STRIPING IN THE RIGHT-OF-WAY TO BE THERMOPLASTIC AS WELL AS ALL DIRECTIONAL ARROWS, STOP BARS AND LETTERS ON PAVEMENTS.
- ALL DISTURBED AREAS WITHIN RIGHT OF WAY SHALL BE STABILIZED WITH SO2, AND MUST BE IRRIGATED UNTIL ESTABLISHED.
- THE SITE COMPLIES WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION
- BUILDING SETBACK IS MINIMUM HORIZONTAL DISTANCE PERMITTED AND MEASURED FROM FACE OF BUILDING TO THE NEAREST PROPERTY LINE.
- ALL COVERED/ENCLOSED STRUCTURES ARE SUBJECT TO SETBACK REQUIREMENTS.
- PARKING IN ROAD RIGHT-OF-WAY AND INGRESS/EGRESS EASEMENT IS PROHIBITED.
- FOR WORK WITHIN F.D.O.T. RIGHT OF WAY SEE FDOT DRIVEWAY PLANS PREPARED BY JEI INC. FOR FURTHER DETAILS.
- SEE LSI LIGHTING PLAN DATED 02-22-23 FOR LIGHT POLE LOCATIONS AND MODEL AS WELL AS THE ILLUMINATION LEVELS.
- CONTROL JOINT LAYOUT PLAN TO BE PROVIDED BY INFINITY ENGINEERING GROUP LLC. (SEE ARCHITECTURAL PLANS FOR MORE DETAILS).
- REFERENCE LPI: LANDSCAPE PLAN BY ALAN D. HOLT LANDSCAPE ARCHITECT FOR GROUNDCOVER AND PLANTING LOCATIONS, AMOUNTS, AND SPECIES.
- FOR REFERENCE, SEE CEFCO #446 SIGN PLANS BY TEXAS REPUBLIC SIGNS DATED 02/06/2023.

JENKINS ENGINEERING, INC.
 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 C.O.A. NO. 9927

MATTHEW H. ZINKE
 CERTIFICATE
 No. 57642
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

	BY	DATE	DESCRIPTION	REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
		5/17/23	REVISED PER FDOT/CITY AND NFWMD COMMENTS	1	12/17/23	REVISED STORM POND, REVISED PAVEMENT TABLES, REVISED ENTRANCE GRADES	2		
				3					
				4					
				5					
				6					
				7					
				8					

THE FIXES COMPANIES

CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA

SITE PLAN

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
 DATE: 2-20-2023
 DESIGNED: BF/MZ
 DRAWN: BF

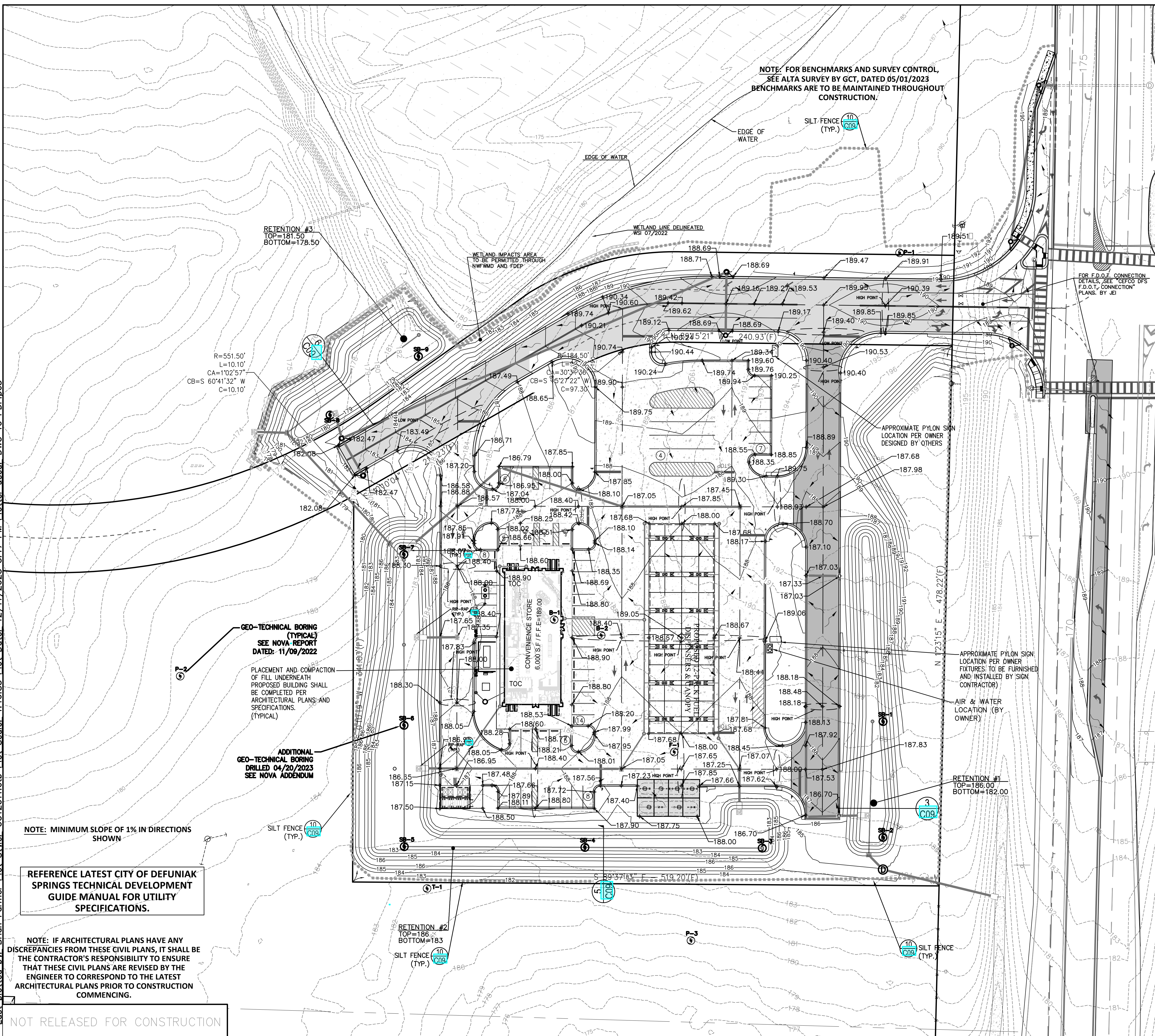
BAR IS ONE INCH ON ORIGINAL
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
 3 OF 12

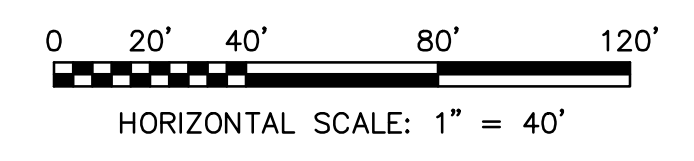
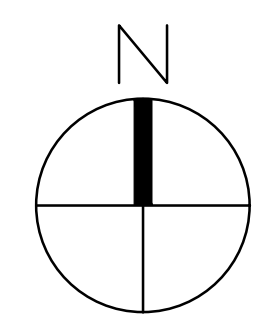
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NOTE: FOR BENCHMARKS AND SURVEY CONTROL, SEE ALTA SURVEY BY GCT, DATED 05/01/2023. BENCHMARKS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION.



LEGEND:

- PROPERTY LINE
- EX. GRADE CONTOUR (1' INTERVALS)
- FINISHED GRADE CONTOUR
- FINISHED GRADE SPOT ELEVATION
- CROSS SECTION LOCATION SHOWING DRAWING NUMBER AND PAGE NUMBER
- SILT FENCE LOCATION
- STORM WATER PIPE (SEE LABEL FOR TYPE)
- TEST HOLE LOCATION AND NUMBER
- DIRECTION OF SLOPE/RUNOFF

NOTES:

1. TOPOGRAPHIC INFORMATION BY GUSTIN, COTHERN AND TUCKER, INC., DATED 05/01/2023. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988.
2. BENCHMARKS: AS SHOWN ON SURVEY BY GUSTIN, COTHERN AND TUCKER, INC., DATED 05/01/2023.
3. CONTOUR INTERVAL= ONE FOOT
4. PROPOSED CONTOURS AND SPOT ELEVATIONS REPRESENT FINISHED GRADE.
5. STORMWATER RUNOFF, SEDIMENT, AND EROSION SHALL BE CONTROLLED DURING ALL PHASES OF CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE A TEMPORARY COVER OF FILTER CLOTH FOR EACH INLET STRUCTURE TO PREVENT ENTRANCE OF SOIL. INLET STRUCTURES ARE TO REMAIN COVERED UNTIL AN ACCEPTABLE STAND OF GRASS IS ACHIEVED. CONTRACTOR TO CLOSELY MONITOR THE TEMPORARY COVERINGS ON DRAINAGE INLETS DURING CONSTRUCTION.
7. MATCH EXISTING EDGE OF PAVEMENT GRADE WHEREVER NEW PAVEMENT EDGE MEETS THE EXISTING EDGE.
8. CONTRACTOR SHALL PROVIDE SOLID SODDING WITHIN THE DETENTION BASIN AND ALL OTHER CLEARED AND GRUBBED AREAS WITH SIDE SLOPES OF 4:1 OR STEEPER. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL SOD AND SEEDED AREAS AND RETENTION BASIN MUST BE ESTABLISHED AND PROPERLY MAINTAINED.
9. ALL BACKFILL OUTSIDE OF BUILDING ENVELOPE TO BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (MODIFIED PROCTOR) AS PER SECTION 7.1.2 OF THE NOVA GEOTECHNICAL REPORT DATED NOVEMBER 9, 2022.
10. FINISHED FLOOR ELEVATIONS SHALL BE SET AS SHOWN BY CONTRACTOR.
11. IF SOIL CONDITIONS ARE NOT CONSISTENT WITH SOIL BORINGS, OR IF MUCK IS ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
12. CONTRACTOR TO BE ADVISED THAT GROUNDWATER WILL MOST LIKELY NOT BE ENCOUNTERED DURING CONSTRUCTION OF THE PROJECT AND CONTRACTOR TO PROVIDE APPROPRIATE MEANS AND METHODS FOR DEWATERING. IF DEWATERING WERE TO BE REQUIRED, COMPLETE DETAILS OF TEMPORARY DIKES, DISCHARGE LOCATIONS, TIME PERIODS, AND METHODS FOR PREVENTING TURBID DISCHARGES WILL BE PROVIDED BY THE CONTRACTOR TO THE REQUIRED AGENCIES AS NEEDED. DEWATERING ACTIVITIES WILL NEED TO BE CONDUCTED UNDER DEP DOCUMENT 62-621.300(2)(A), "GENERIC PERMIT FOR DISCHARGE OF GROUND WATER FROM DEWATERING OPERATIONS". IN ADDITION, SECTION VI OF THE NPDES NOI MUST BE COMPLETED OR A SEPARATE APPLICATION, DEP FORM 62-621.300(2)(B), MUST BE SUBMITTED WITH THE PROPER FEE AND PROCESSED BY FDEP PRIOR TO ANY DEWATERING ACTIVITIES OCCURRING. SEE REPORT BY NOVA ENGINEERING AND ENVIRONMETAL, LLC., DATED NOVEMBER 9, 2022.
13. SILT FENCE SHOWN OUTSIDE OF PROPERTY LINE FOR ILLUSTRATIVE PURPOSES ONLY. SILT FENCE TO BE INSTALLED INSIDE OR ALONG PROPERTY BOUNDARY.
14. BUILDING CONTRACTOR TO DIRECT ALL ROOF DRAINAGE TO DOWNSPOUTS TO STORM WATER SYSTEM.
15. WHERE LANDSCAPE AREAS ADJACENT TO THE BUILDING A MINIMUM 3% SLOPE SHALL BE MAINTAINED AWAY FROM BUILDINGS AT ALL THE TIMES.
16. SITE CONTRACTOR TO REFERENCE ARCHITECTURAL PLANS FOR THE EXACT LOCATION AND NUMBER OF ROOF DRAINS. COORDINATE CONNECTION OF ROOF DRAINS TO THE STORMWATER SYSTEM WITH THE BUILDING CONTRACTOR PER ARCHITECTURAL PLANS.
17. HANDICAP PARKING AREAS SHALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 2%.
18. ALL PROPOSED BERMS OR BASIN BACKSLOPES LOCATED ADJACENT TO PROPERTY LINES SHALL BE STABILIZED WITH SOLID SOD IMMEDIATELY UPON COMPLETION OF GRADING.
19. FDEP NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR THIS PROJECT AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
20. SUBGRADE PREPARATION PER SECTION 7.1 AND 8.1 OF NOVA GEOTECHNICAL REPORT DATED NOVEMBER 9, 2022.
21. CONCRETE HANDICAP PARKING AREA TO BE POURED TO INSURE THAT THE SLOPE OF THE PAVEMENT DOES NOT EXCEED 2%.

RETENTION #3
TOP=181.50
BOTTOM=178.50

R=551.50'
L=10.10'
CA=1'02'57"
CB=S 60°41'32" W
C=10.10'

GEO-TECHNICAL BORING (TYPICAL)
SEE NOVA REPORT
DATED: 11/09/2022

ADDITIONAL GEO-TECHNICAL BORING DRILLED 04/20/2023
SEE NOVA ADDENDUM

PLACEMENT AND COMPACTION OF FILL UNDERNEATH PROPOSED BUILDING SHALL BE COMPLETED PER ARCHITECTURAL PLANS AND SPECIFICATIONS. (TYPICAL)

NOTE: MINIMUM SLOPE OF 1% IN DIRECTIONS SHOWN

REFERENCE LATEST CITY OF DEFUNIAK SPRINGS TECHNICAL DEVELOPMENT GUIDE MANUAL FOR UTILITY SPECIFICATIONS.

NOTE: IF ARCHITECTURAL PLANS HAVE ANY DISCREPANCIES FROM THESE CIVIL PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE CIVIL PLANS ARE REVISED BY THE ENGINEER TO CORRESPOND TO THE LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION COMMENCING.

NOT RELEASED FOR CONSTRUCTION

JENKINS ENGINEERING, INC.
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 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 JEICVIL.COM
 C.O.A. NO. 9927

REV	DATE	DESCRIPTION
1	5/17/23	REVISED PER FOOT, CITY AND INPWAD COMMENTS
2	12/17/23	REVISED STORM POND, CITY AND INPWAD COMMENTS
3		
4		
5		
6		
7		
8		

THE FIXES COMPANIES

CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
 DATE: 2-20-2023
 DESIGNED: BF/MZ
 DRAWN: BF

BAR IS ONE INCH ON ORIGINAL
 0" = 1"

IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
4 OF 13

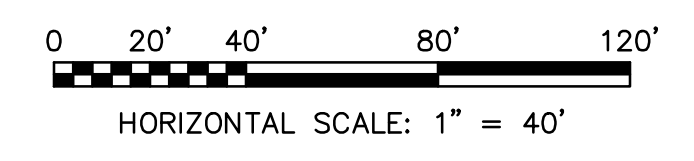
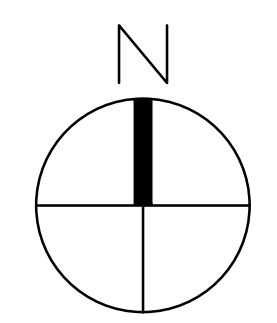
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REFERENCE LATEST CITY OF DEFUNIAK
SPRINGS TECHNICAL DEVELOPMENT
GUIDE MANUAL FOR UTILITY
SPECIFICATIONS.

NOTE: TOP 6" OF SOIL, FOR ENTIRE
BOTTOM OF STORMWATER BASINS, TO
BE SAND MATCHING FILTER SAND
SPECIFICATIONS

NOTE: FOR BENCHMARKS AND SURVEY CONTROL,
SEE ALTA SURVEY BY GCT, DATED 05/01/2023.
BENCHMARKS ARE TO BE MAINTAINED THROUGHOUT
CONSTRUCTION.



LEGEND:

- PROPERTY LINE
- EX. GRADE CONTOUR (1' INTERVALS)
- FINISHED GRADE CONTOUR
- FINISHED GRADE SPOT ELEVATION
- CROSS SECTION LOCATION SHOWING DRAWING NUMBER AND PAGE NUMBER
- SILT FENCE LOCATION
- REINFORCED CONCRETE PIPE
- TEST HOLE LOCATION AND NUMBER

NOTES:

- TOPOGRAPHIC INFORMATION BY GUSTIN, COTHERN AND TUCKER, INC., DATED 05/01/2023. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988.
- BENCHMARKS: AS SHOWN ON SURVEY BY GUSTIN, COTHERN AND TUCKER, INC., DATED 05/01/2023.
- CONTOUR INTERVAL= ONE FOOT
- PROPOSED CONTOURS AND SPOT ELEVATIONS REPRESENT FINISHED GRADE.
- STORMWATER RUNOFF, SEDIMENT, AND EROSION SHALL BE CONTROLLED DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A TEMPORARY COVER OF FILTER CLOTH FOR EACH INLET STRUCTURE TO PREVENT ENTRANCE OF SOIL. INLET STRUCTURES ARE TO REMAIN COVERED UNTIL AN ACCEPTABLE STAND OF GRASS IS ACHIEVED. CONTRACTOR TO CLOSELY MONITOR THE TEMPORARY COVERINGS ON DRAINAGE INLETS DURING CONSTRUCTION.
- MATCH EXISTING EDGE OF PAVEMENT GRADE WHEREVER NEW PAVEMENT EDGE MEETS THE EXISTING EDGE.
- CONTRACTOR SHALL PROVIDE SOLID SODDING WITHIN THE DETENTION BASIN AND ALL OTHER CLEARED AND GRUBBED AREAS WITH SIDE SLOPES OF 4:1 OR STEEPER. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL SOD AND SEEDED AREAS AND RETENTION BASIN MUST BE ESTABLISHED AND PROPERLY MAINTAINED.
- ALL BACKFILL OUTSIDE OF BUILDING ENVELOPE TO BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (MODIFIED PROCTOR) AS PER SECTION 7.1.2 OF THE NOVA GEOTECHNICAL REPORT DATED NOVEMBER 9, 2022.
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- CONTRACTOR TO BE ADVISED THAT GROUNDWATER WILL MOST LIKELY NOT BE ENCOUNTERED DURING CONSTRUCTION OF THE PROJECT AND CONTRACTOR TO PROVIDE APPROPRIATE MEANS AND METHODS FOR DEWATERING. IF DEWATERING WERE TO BE REQUIRED, COMPLETE DETAILS OF TEMPORARY DIKES, DISCHARGE LOCATIONS, TIME PERIODS, AND METHODS FOR PREVENTING TURBID DISCHARGES WILL BE PROVIDED BY THE CONTRACTOR TO THE REQUIRED AGENCIES AS NEEDED. DEWATERING ACTIVITIES WILL NEED TO BE CONDUCTED UNDER DEP DOCUMENT 62-621.300(2)(A), "GENERIC PERMIT FOR DISCHARGE OF GROUND WATER FROM DEWATERING OPERATIONS". IN ADDITION, SECTION VI OF THE NPDES NOI MUST BE COMPLETED OR A SEPARATE APPLICATION, DEP FORM 62-621.300(2)(B), MUST BE SUBMITTED WITH THE PROPER FEE AND PROCESSED BY FDEP PRIOR TO ANY DEWATERING ACTIVITIES OCCURRING. SEE REPORT BY NOVA ENGINEERING AND ENVIRONMENTAL, LLC., DATED NOVEMBER 9, 2022.
- SILT FENCE SHOWN OUTSIDE OF PROPERTY LINE FOR ILLUSTRATIVE PURPOSES ONLY. SILT FENCE TO BE INSTALLED INSIDE OR ALONG PROPERTY BOUNDARY.
- BUILDING CONTRACTOR TO DIRECT ROOF DRAINAGE TO PARKING LOT OR TO DOWNSPOUT LOCATIONS CONNECTED TO STORM WATER SYSTEM.
- WHERE LANDSCAPE AREAS ADJACENT TO THE BUILDING A MINIMUM 3% SLOPE SHALL BE MAINTAINED AWAY FROM BUILDINGS AT ALL THE TIMES.
- SITE CONTRACTOR TO REFERENCE ARCHITECTURAL PLANS FOR THE EXACT LOCATION AND NUMBER OF ROOF DRAINS. COORDINATE CONNECTION OF ROOF DRAINS TO THE STORMWATER SYSTEM WITH THE BUILDING CONTRACTOR PER ARCHITECTURAL PLANS.
- HANDICAP PARKING AREAS SHALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 2%.
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- FDEP NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR THIS PROJECT AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
- SUBGRADE PREPARATION PER SECTION 7.1 AND 8.1 OF NOVA GEOTECHNICAL REPORT DATED NOVEMBER 9, 2022.
- CONCRETE HANDICAP PARKING AREA TO BE POURED TO INSURE THAT THE SLOPE OF THE PAVEMENT DOES NOT EXCEED 2%.

NOTE: IF ARCHITECTURAL PLANS HAVE ANY
DISCREPANCIES FROM THESE CIVIL PLANS, IT SHALL BE
THE CONTRACTOR'S RESPONSIBILITY TO ENSURE
THAT THESE CIVIL PLANS ARE REVISED BY THE
ENGINEER TO CORRESPOND TO THE LATEST
ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION
COMMENCING.

NOT RELEASED FOR CONSTRUCTION

JENKINS ENGINEERING, INC.
73 EGLIN PARKWAY NE, SUITE 203
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PHONE 850.937.2448
PHONE 850.937.2450
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JEICVIL.COM
C.O.A. NO. 9927

MATTHEW H. ZINKE
REGISTERED PROFESSIONAL ENGINEER
No. 57642
STATE OF FLORIDA

REV	DATE	DESCRIPTION
1	5/17/23	REVISED PER CITY, FDOT AND HWY/MD COMMENTS
2	12/7/23	REVISED STORM POND, REVISED PAVEMENT, REVISED ENTRANCE GRADES
3		
4		
5		
6		
7		
8		

THE FIKES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
DRAINAGE PLAN
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

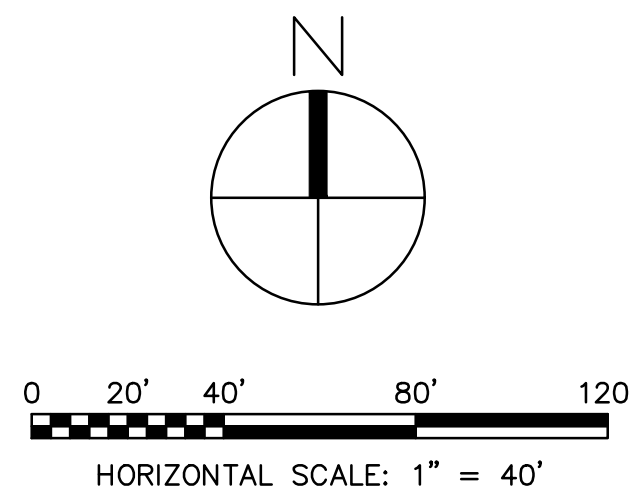
JOB: 22-72
DATE: 2-20-2023
DESIGNED: BF/MZ
DRAWN: BF

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IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

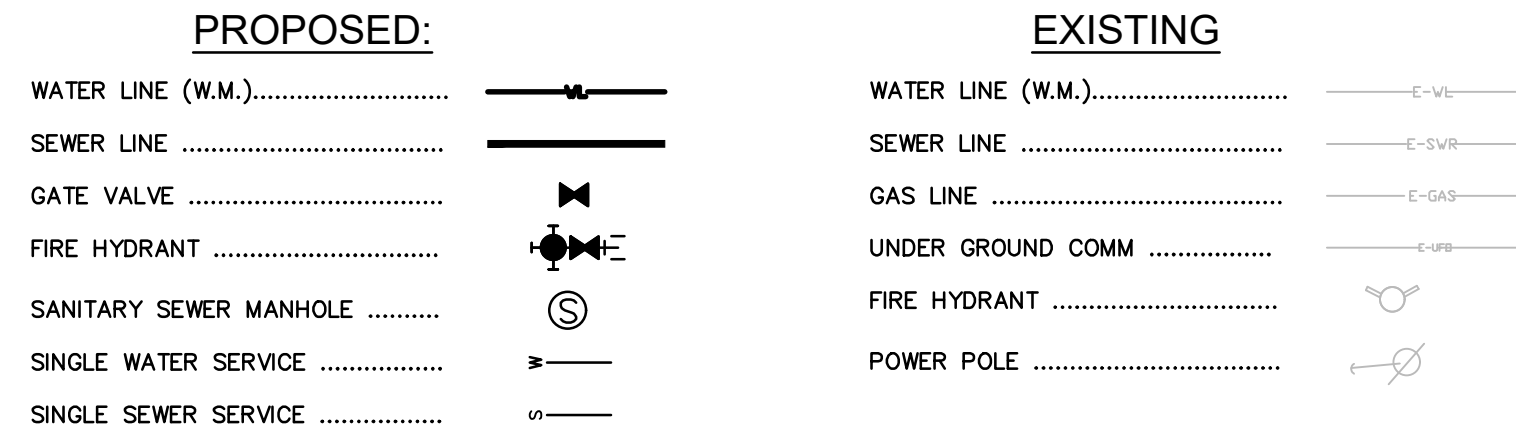
DRAWING NUMBER
5 OF 12
SHEET NUMBER
C04

BACKFLOW PREVENTORS:

- 1) ALL WATER SERVICE LINES SHALL BE REQUIRED TO HAVE A BACKFLOW DEVICE PURSUANT TO CITY OF DEFUINIAC SPRINGS SPECIFICATIONS.
2) ALL FIRE LINES SHALL HAVE A DOUBLE DETECTOR CHECK VALVE ASSEMBLY WITH A 3/4" BYPASS METER.
3) RPZ TYPE BACKFLOW PREVENTORS ARE REQUIRED FOR ALL HIGH HAZARD WATER USES.
4) ALL BACKFLOW PREVENTORS SHALL BE OF THE TYPE REQUIRED BY FDEP, AWWA AND NFPA CODES AND MUST BE PER CITY OF DEFUINIAC SPRINGS BACKFLOW PREVENTION PROGRAM.
5) ALL WATER TAPS SHALL BE LOCATED OUT FROM UNDER PROPOSED FUTURE PAVEMENT.

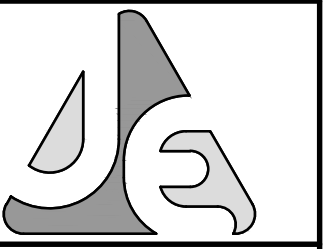


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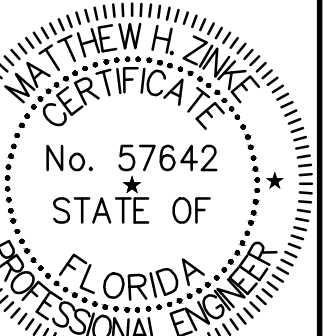


GENERAL UTILITY NOTES:

- 1. THE LOCATION OF UTILITIES IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION...
2. THE CONTRACTOR SHALL HAVE ALL APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND LOCAL PERMITS PRIOR TO BEGINNING CONSTRUCTION.
3. TAPS TO EXISTING UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES...
4. CONTRACTOR SHALL MAINTAIN A 6" MINIMUM SEPARATION BETWEEN WATER AND SEWER MAINS.
5. PROPOSED WATER MAIN SHALL BE INSTALLED WITH MINIMUM COVER OF 36 INCHES...
6. WHERE CONFLICTS OCCUR INVOLVING WATER MAINS, FORCE MAINS, OR IRRIGATION MAINS...
7. NO FITTINGS FOR WATER MAINS AND FORCE MAINS SHALL BE UNDER PAVEMENT.
8. WATER MAINS ARE SHOWN CURVED FOR GRAPHICAL REPRESENTATION ONLY...
9. ANY EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED...
10. DISTURBED AREAS SHALL BE STABILIZED WITH SEED OR SOD...
11. MANAGEMENT OF TRAFFIC (MOT) SHALL CONFORM TO THE LATEST FDOT STANDARD INDEX.
12. CONTRACTOR SHALL INSTALL SILT FENCE AND/OR EROSION CONTROL...
13. UTILITY COMPANIES AND THE CITY OF DEFUINIAC SPRINGS.
14. AND FDOT PRIOR TO ANY PROPOSED MAINTENANCE OF TRAFFIC.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING ALL UTILITIES ARE PROPERLY SPACED DURING INSTALLATION.
16. BUILDING CONTRACTOR TO CONTINUE SEWER AND WATER SERVICE FROM INTO THE BUILDING...
17. CONTRACTOR TO CONFIRM FINAL SIZE OF SEWER LINE, WATER SERVICE LINE AND GREASE TRAP WITH ARCHITECT.
18. INDIVIDUAL FORCE MAIN CONNECTION TO BE COORDINATED WITH DEFUINIAC SPRINGS PUBLIC WORKS DEPARTMENT.



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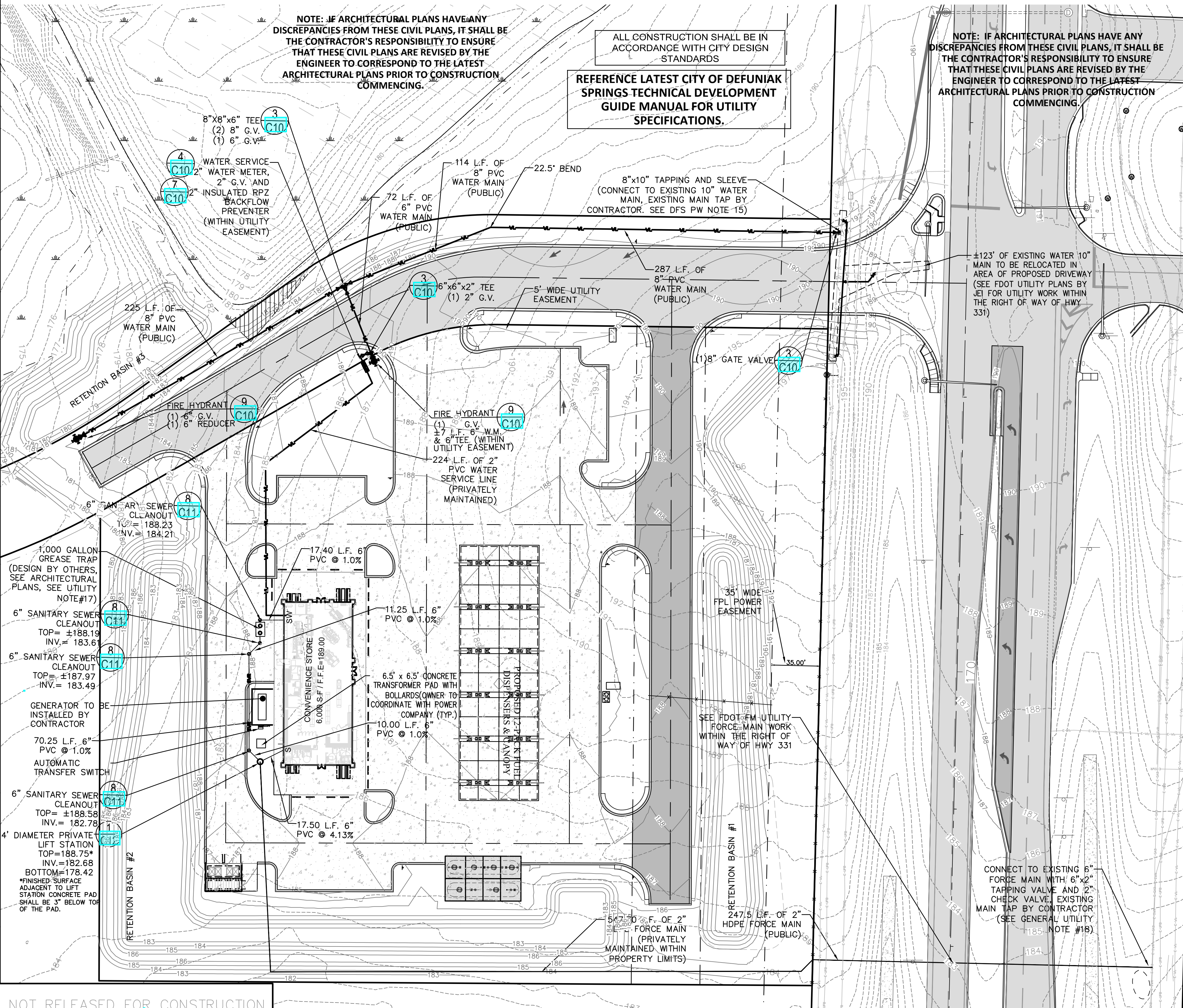
MATTHEW H. ZINKE, P.E.
FL REGISTRATION NO. 376742

Table with columns: REV, DATE, DESCRIPTION. Contains revision history for the drawing.

THE FIXES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUINIAC SPRINGS, FLORIDA
UTILITY PLAN
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
DATE: 2-20-2023
DESIGNED: BF/MZ
DRAWN: BF
DRAWING NUMBER 6 OF 13
SHEET NUMBER C05

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Last plotted by: Brian Farmer Plot Scale: 1:16.83 Plot Date: 12/11/2023 4:21 PM Plotter used: DWG To PDF.pc3



NOTE: IF ARCHITECTURAL PLANS HAVE ANY DISCREPANCIES FROM THESE CIVIL PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE CIVIL PLANS ARE REVISED BY THE ENGINEER TO CORRESPOND TO THE LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION COMMENCING.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY DESIGN STANDARDS.
REFERENCE LATEST CITY OF DEFUINIAC SPRINGS TECHNICAL DEVELOPMENT GUIDE MANUAL FOR UTILITY SPECIFICATIONS.

NOTE: IF ARCHITECTURAL PLANS HAVE ANY DISCREPANCIES FROM THESE CIVIL PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE CIVIL PLANS ARE REVISED BY THE ENGINEER TO CORRESPOND TO THE LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION COMMENCING.

GENERAL NOTES - POTABLE WATER CONSTRUCTION:

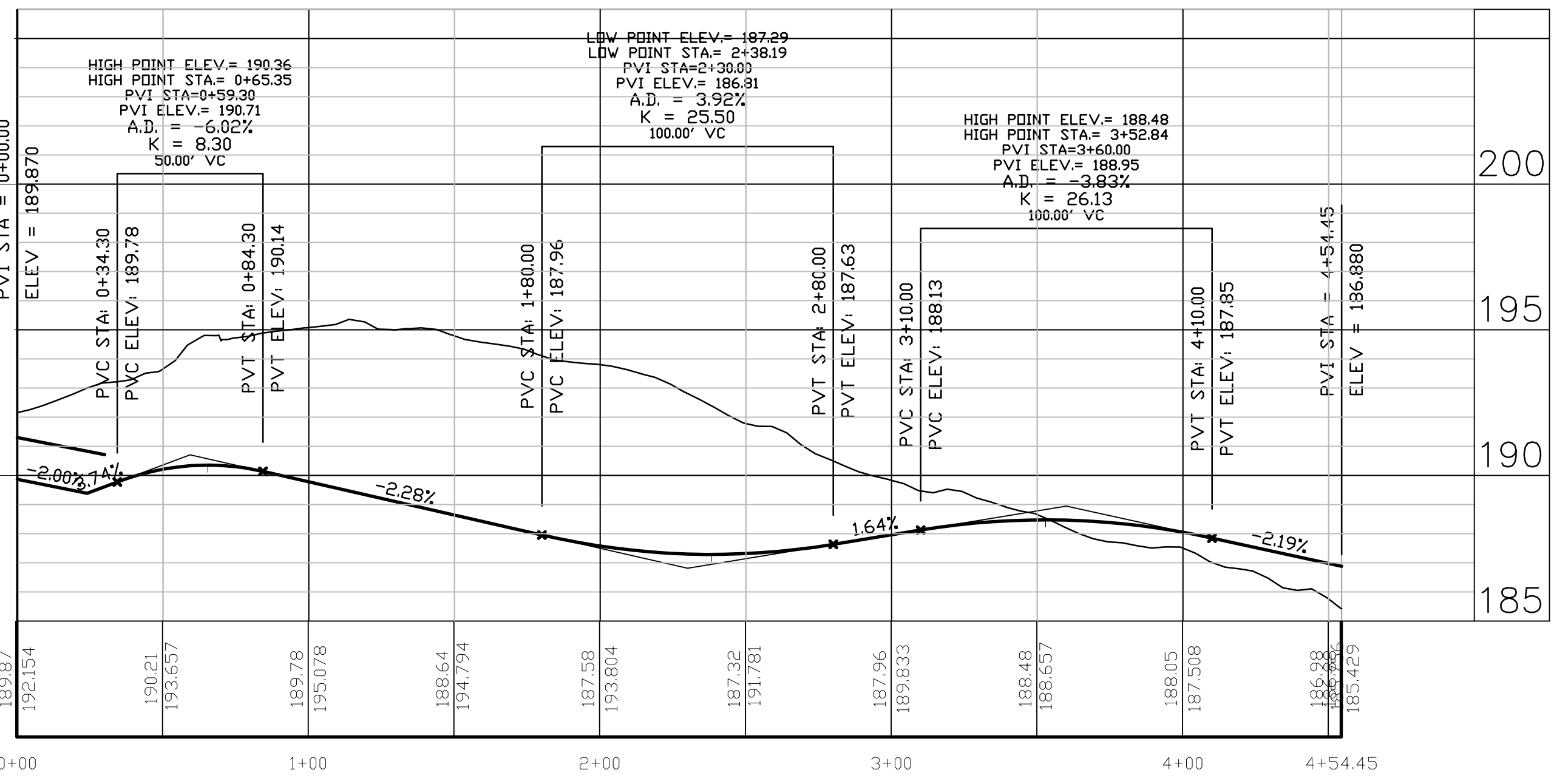
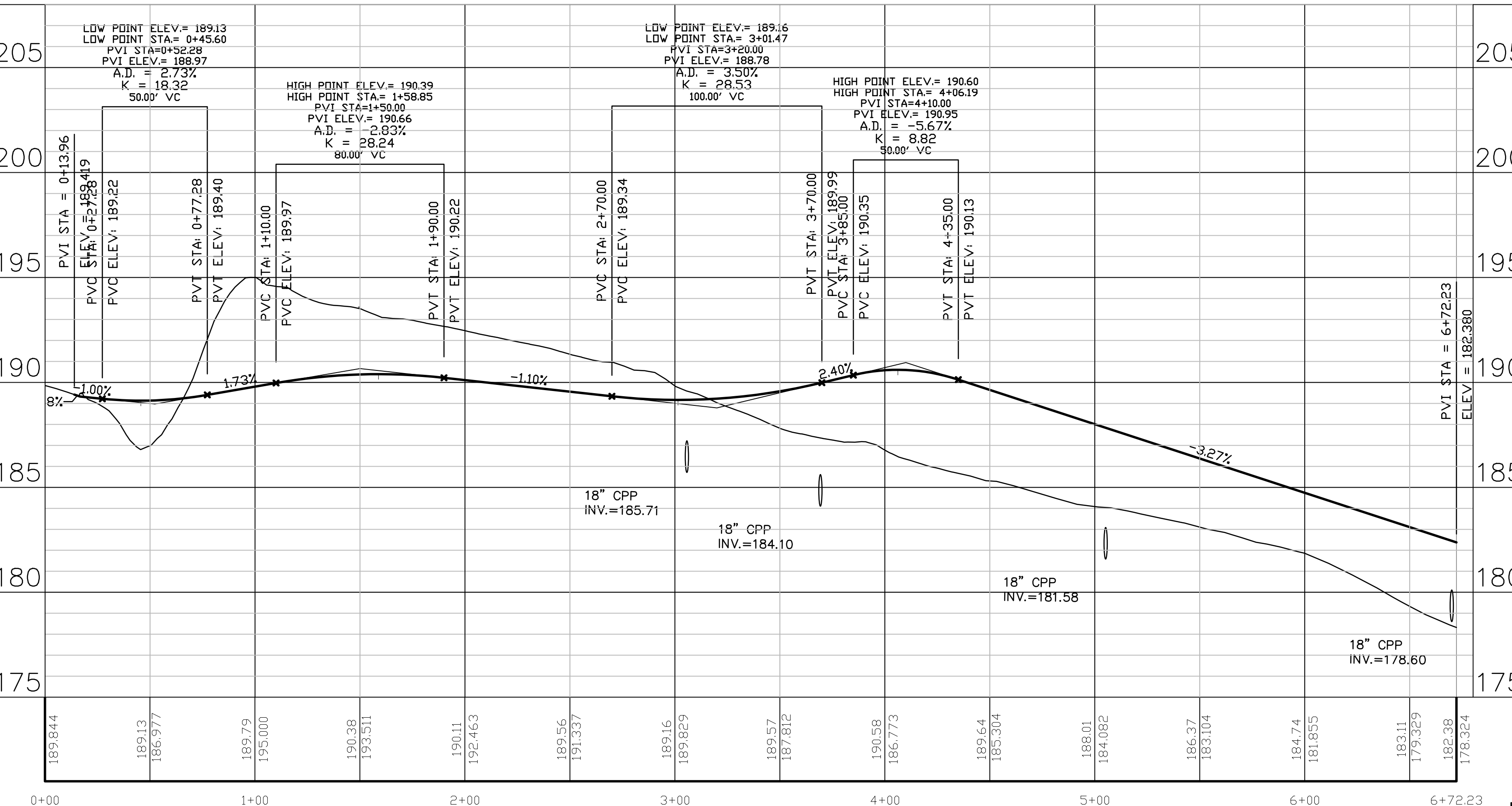
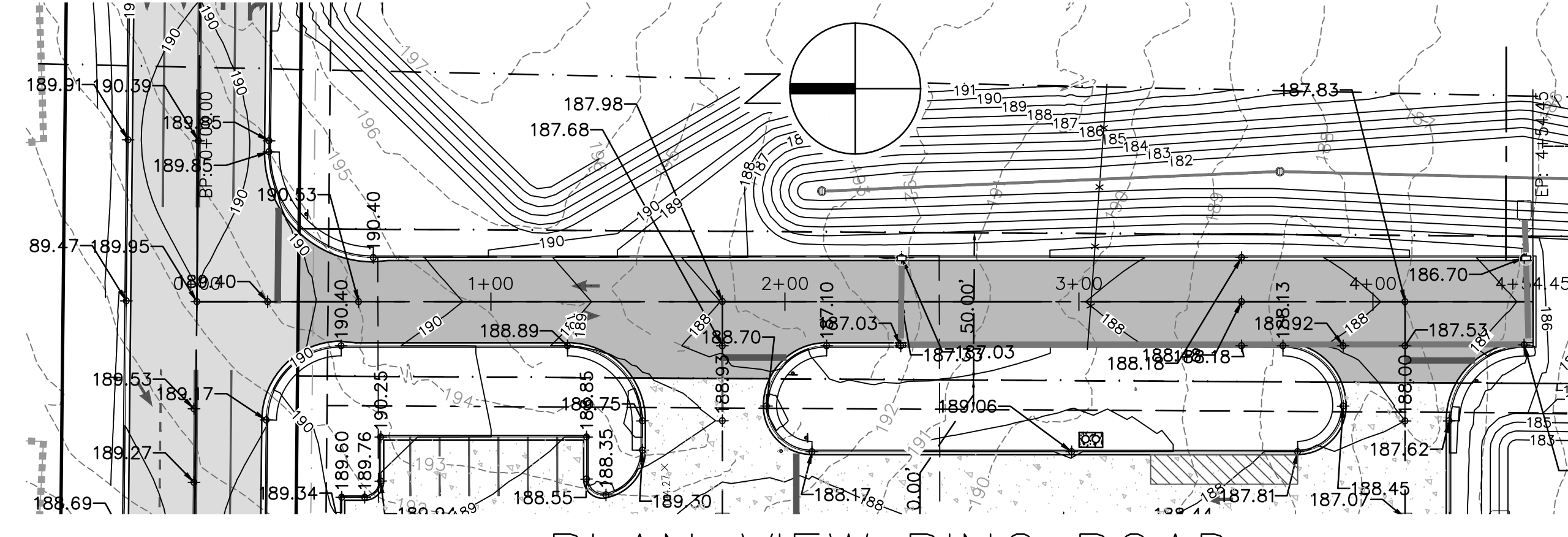
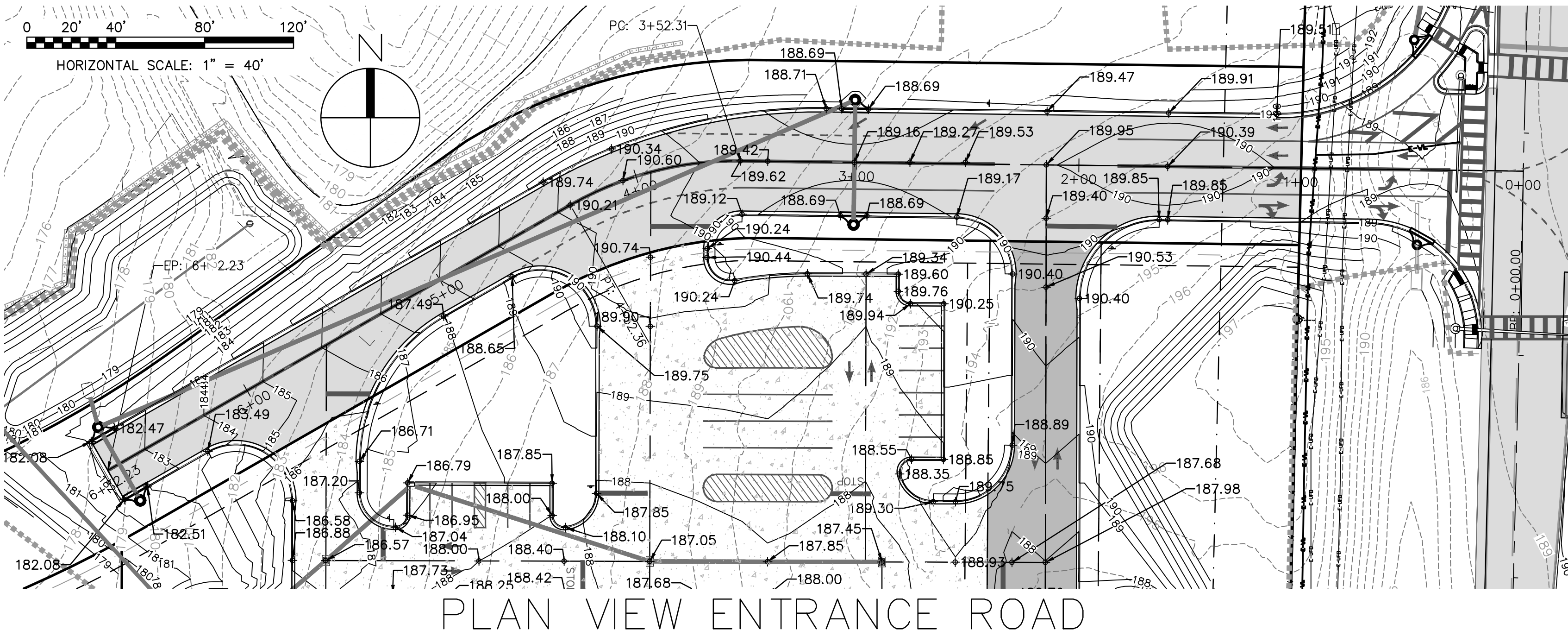
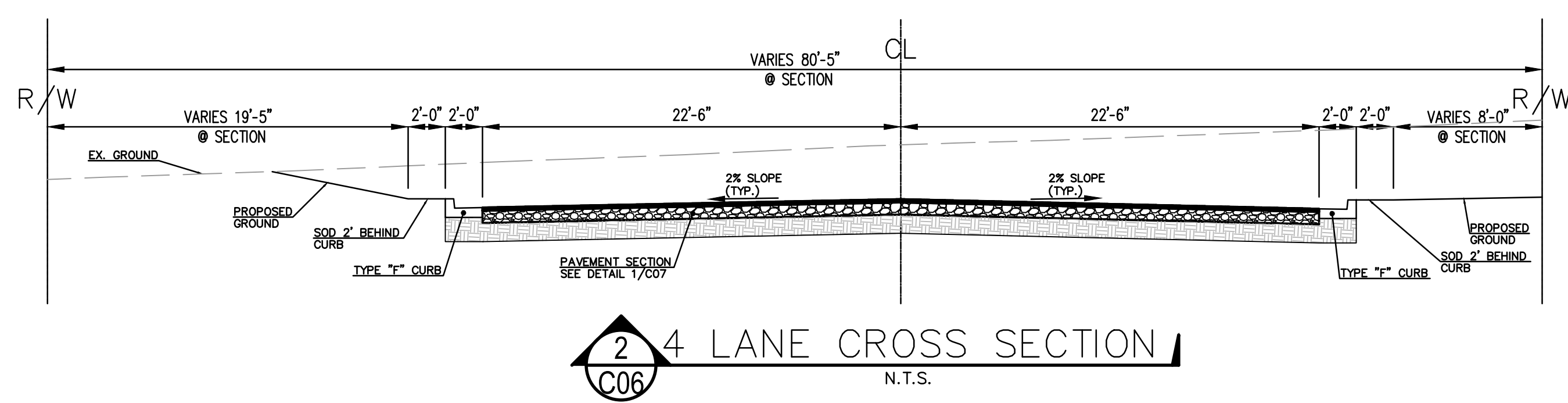
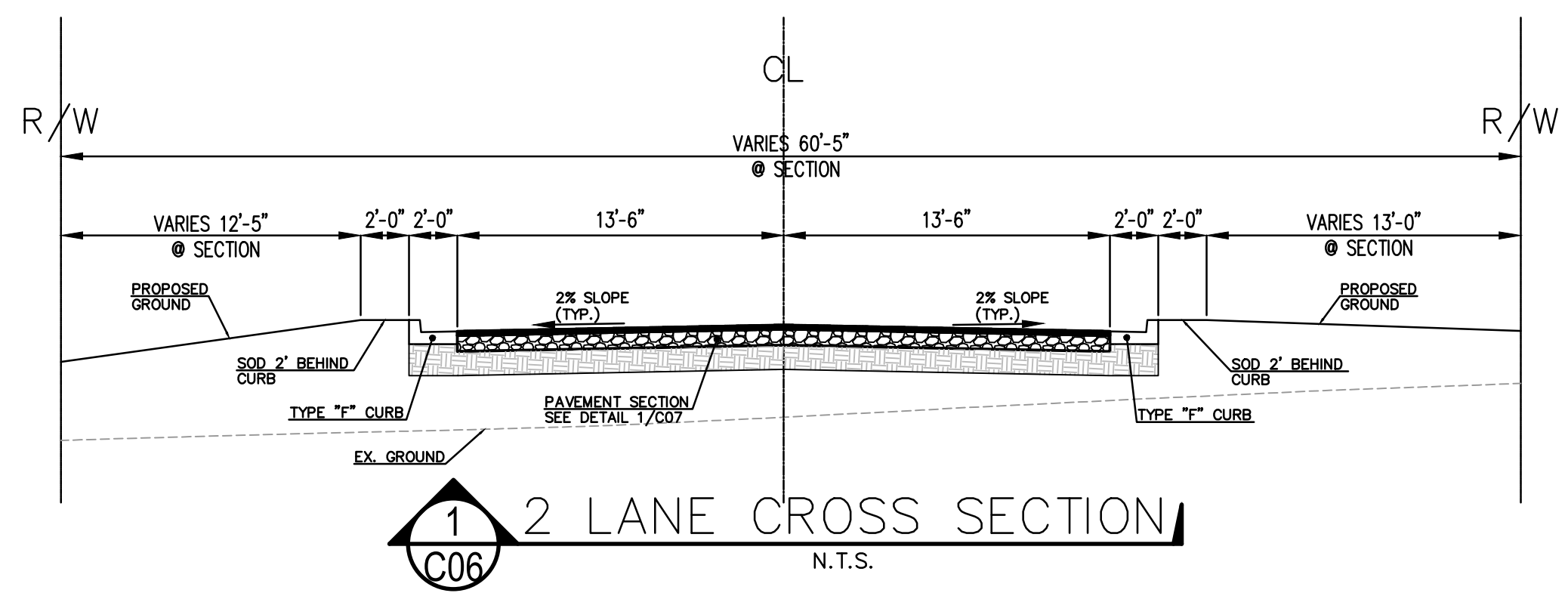
- 1. CONTRACTOR SHALL COORDINATE INSTALLATION OF POTABLE WATER MAINS WITH ALL OTHER UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. HYDROSTATIC TESTS, LEAKAGE TESTS, DISINFECTION, AND BACTERIOLOGICAL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE WRITTEN CONSTRUCTION SPECIFICATION OF CITY OF DEFUINIAC SPRINGS AND ALL APPLICABLE FDEP AND AWWA REQUIREMENTS.
3. NO POTABLE WATER MAIN CONSTRUCTION SHALL COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN APPROVED AND A PRECONSTRUCTION CONFERENCE HELD WITH CITY OF DEFUINIAC SPRINGS STAFF.
4. PROVIDE LOCKS, IN ACCORDANCE WITH THE WRITTEN CONSTRUCTION SPECIFICATIONS OF CITY OF DEFUINIAC SPRINGS, ON ALL CURB STOPS.
5. CONTRACTOR SHALL NOTIFY CITY OF DEFUINIAC SPRINGS 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DEFUINIAC SPRINGS REPRESENTATIVES MUST WITNESS ALL TIES OF AND TESTS OF NEW LINES.
6. SERVICES INSTALLED UNDER ASPHALT TO BE INSTALLED IN 2" SCH. 40 PVC CASING EXTENDING 4'-0" BEYOND BACK OF CURB.
7. CONTRACTOR SHALL INSTALL NO. 10 INSULATED COPPER LOCATOR WIRE 18" DIRECTLY ABOVE TOP OF ALL PVC PIPE, ABOVE SERVICE LINES, AND LOOP TO MIN. 10" ABOVE TOP OF VALVE BOXES. WIRE SHALL BE CONNECTED FOR A CONTINUOUS CIRCUIT CONNECTION. DO NOT WRAP AROUND PIPING.
8. IT IS REQUIRED THAT ALL NEW AND RELOCATED WATER SERVICES AND PLUMBING SHALL BE IN CONFORMANCE WITH STATE AND FEDERAL REGULATIONS PERTAINING TO THE CONTROL OF LEAD AND COPPER.
9. THE LOCATION OF ALL WATER SERVICE STUBS ARE TO BE MARKED BY THE LETTER "W" SCRIBED A MINIMUM OF 2" HIGH AND 1/4" DEEP IN CURB. IF NO CURBING IS INSTALLED A 3" SQUARE STEEL TAG INSCRIBED WITH A 2" LETTER "W" IS TO BE ATTACHED TO THE STREET PAVEMENT.
10. A 4" WATER BALL MARKER, AS MANUFACTURED BY 3M PART NO. 1403, SHALL BE PLACED AT ALL INLINE VALVES ALONG WATERMAIN AND AT ALL METER BOX LOCATIONS.
11. ALL MECHANICAL JOINTS SHALL USE RDMAC GRIP RINGS RESTRAINT TYPE COUPLINGS.
12. MINIMUM SEPARATION BETWEEN WATER OR SEWER AND ELECTRICAL CONDUITS OR ELECTRICAL LINES SHALL BE 72" MINIMUM HORIZONTAL & 18" VERTICAL WITH ELECTRICAL BEING BELOW THE WATER AND SEWER LINES. IN CASES WHERE 18" VERTICAL SEPARATION CAN NOT BE MET, 96" OF HORIZONTAL SEPARATION SHALL BE REQUIRED.
13. ALL MECHANICAL JOINT FITTINGS ON PRESSURE PIPE SHALL HAVE BOTH RDMAC GRIP RING RESTRAINT TYPE COUPLINGS AND THRUST BLOCKS.
14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF CITY OF DEFUINIAC SPRINGS TECHNICAL GUIDE AND SPECIFICATIONS LATEST EDITION.
15. ANY LOCATION WHERE PRESSURE PIPELINES CURVATURE EXCEEDS MANUFACTURER'S SPECIFICATIONS, APPROPRIATE MECHANICAL JOINT FITTINGS SHALL BE USED.
16. ALL 2-INCH VALVES SHALL BE BALL TYPE - 2-INCH GATE VALVES SHALL NOT BE USED.
17. ALL TIE IN TO EXISTING PRESSURIZED PIPELINES SHALL BE BY TAPPING SLEEVE (3 INCH TAP AND LARGER) OR TAPPING SADDLE, 2 INCH TAP AND SMALLER) AND VALVE.

SANITARY SEWER GENERAL NOTES

- 1. CONTRACTOR SHALL COORDINATE INSTALLATION OF SANITARY SEWERS WITH ALL OTHER UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. TELEVISION INSPECTION IS REQUIRED FOR ALL GRAVITY SEWERS. A FULL REPORT SHALL BE GIVEN TO THE CITY OF DEFUINIAC SPRINGS UPON COMPLETION. COST OF TELEVISION INSPECTION SHALL BE DONE BY THE CONTRACTOR.
3. NO SANITARY SEWER CONSTRUCTION SHALL COMMENCE UNTIL SHOP DRAWING SUBMITTALS HAVE BEEN APPROVED.
4. A PRE CONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY DEFUINIAC SPRINGS 72 HRS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DEFUINIAC SPRINGS REPRESENTATIVES MUST WITNESS ALL TIES TO EXISTING LINES AND TESTS OF NEW LINES.
5. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS IN ACCORDANCE WITH CITY OF DEFUINIAC SPRINGS TECHNICAL GUIDE.
6. ALL GRAVITY SEWER SHALL BE VISUALLY INSPECTED (I.E. LAMPED) BY DEFUINIAC SPRINGS REPRESENTATIVES PRIOR TO FINAL ACCEPTANCE.
7. ALL MECHANICAL JOINTS SHALL USE RDMAC GRIP RINGS RESTRAINT TYPE COUPLINGS.
8. MIN. SERVICE SLOPE: 4' = 1/4" PER FOOT, 6' = 1/8" PER FOOT.
9. USE 4" SERVICES FOR ALL SINGLE FAMILY HOME CONNECTIONS. USE 6" SERVICES FOR MULTI FAMILY AND COMMERCIAL CONNECTIONS.
10. LOCATIONS OF SERVICE STUB TO BE MARKED BY THE LETTER "S" SCRIBED A MINIMUM OF 2" HIGH & 1/4" DEEP IN CURB.
11. IF NO CURBING IS INSTALLED A 3" SQUARE STEEL TAG INSCRIBED WITH A 2" LETTER "S" IS TO BE ATTACHED TO STREET PAVEMENT.
12. EXTEND SERVICE CONNECTION A SUFFICIENT DISTANCE BEYOND CLEAN-OUT TO ALLOW FOR FUTURE CONNECTION TO THE STUB OUT WITHOUT UNDERMINING THE CLEAN-OUT ASSEMBLY.
13. USE HYDRAULIC CEMENT GROUT TO SEAL INTERIOR AND EXTERIOR OF ALL PRECAST MANHOLE JOINTS.
14. ALL GRAVITY SEWER AND SEWER SERVICES SHALL HAVE CONCRETE ENCASUREMENT WHERE COVER IS LESS THAN 30 INCHES UNDER PAVEMENT OR LESS THAN 18 INCHES IN GREEN AREAS.
15. AT ALL HIGH POINTS CRESTED DURING FORCE MAIN CONSTRUCTION, COMBINATIONS AIR RELEASE VALVES SHALL BE INSTALLED.
16. EXTERNAL DROP TYPE MANHOLES ARE REQUIRED WHERE MANHOLE INVERT ELEVATIONS VARY BY OVER TWO FEET.
17. MANHOLE TOPS IN GREEN AREAS SHALL BE ELEVATED TO PROHIBIT STORMWATER ENTRY.
18. SEWER SERVICES SHALL BE CONSTRUCTED AT THE LOWER SIDE OF LOTS.
19. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH CITY OF DEFUINIAC SPRINGS TECHNICAL GUIDE AND SPECIFICATIONS, LATEST EDITION.

NOT RELEASED FOR CONSTRUCTION

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PROFILE RING ROAD
DESIGN SPEED LIMIT = 30 MPH
SPEED LIMIT POSTED = 20 MPH

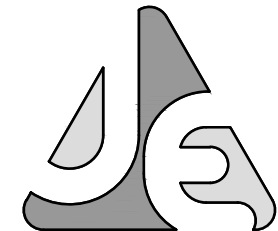
NOT RELEASED FOR CONSTRUCTION

DESIGN SPEED LIMIT = 30 MPH, CITY OF DeFUNIAK SPRINGS TO DETERMINE SPEED LIMIT POSTED

NOTE: IF ARCHITECTURAL PLANS HAVE ANY DISCREPANCIES FROM THESE CIVIL PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE CIVIL PLANS ARE REVISED BY THE ENGINEER TO CORRESPOND TO THE LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION COMMENCING.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY DESIGN STANDARDS

REFERENCE LATEST CITY OF DEFUNIAK SPRINGS TECHNICAL DEVELOPMENT GUIDE MANUAL FOR UTILITY SPECIFICATIONS.



JENKINS ENGINEERING, INC.
73 EGLIN PARKWAY NE, SUITE 203
FORT WALTON BEACH, FLORIDA 32548
PHONE 850.837.2448
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JEICIVIL.COM

C.O.A. NO. 9927
L.B. NO. 8081

MATTHEW H. ZINKE
CERTIFICATE
No. 57642
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
1	12/7/23	REVISED STORM POND, REVISED PIVOT TABLES, REVISED ENTRANCE GRADES
2		
3		
4		
5		
6		
7		
8		

BY: MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

THE FIXES COMPANIES

CEFCO DFS I-10 & 331
CITY OF DeFUNIAK SPRINGS, FLORIDA

PLAN AND PROFILE

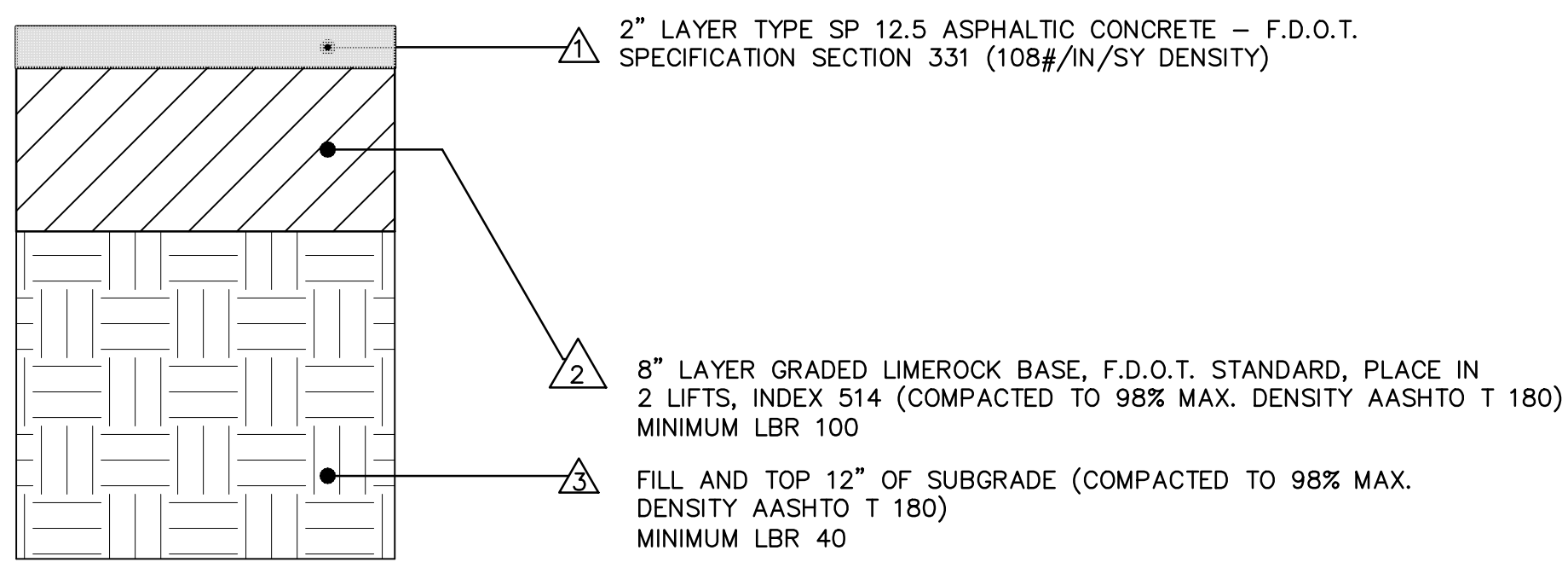
JOB: 22-72
DATE: 2-20-2023
DESIGNED: BF/MZ
DRAWN: BF

DRAWING NUMBER 7 OF 13
SHEET NUMBER C06

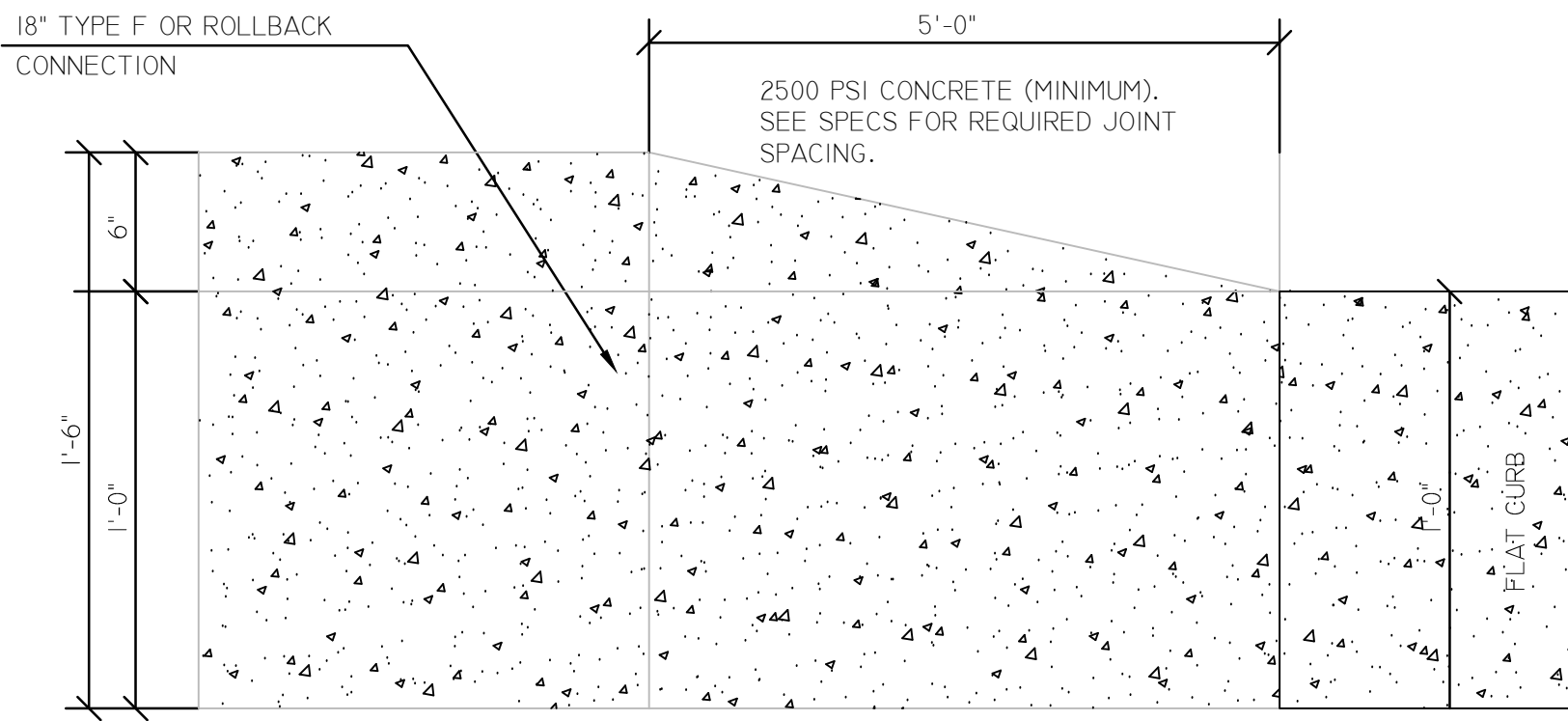
BAR IS ONE INCH ON ORIGINAL
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

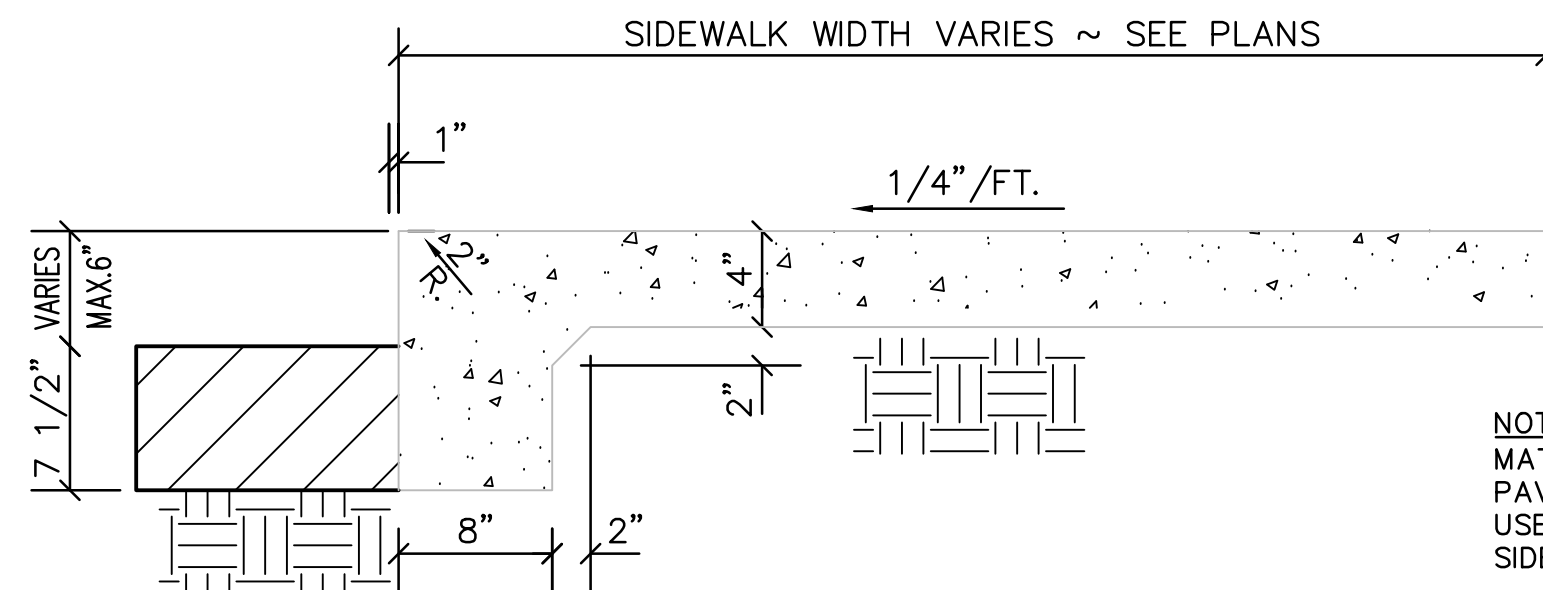
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 Last Printed by: Brian Farmer Plot Style: --- Plot Scale: 1:3.56 Plot Date: 5/17/2023 3:39 PM Plotter used: None



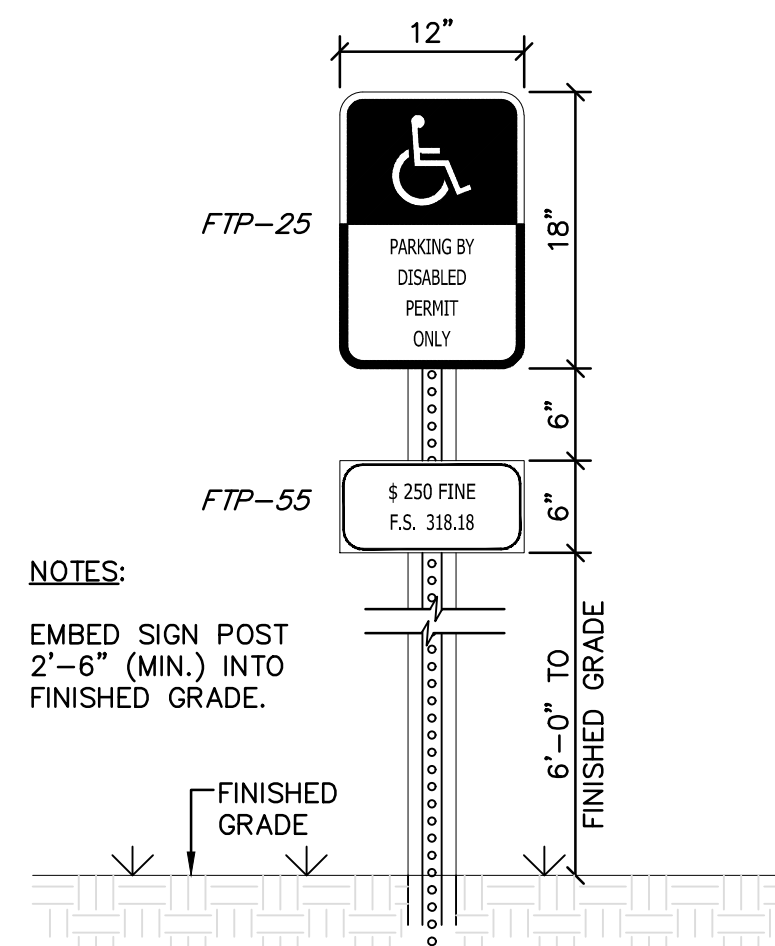
1 ASPHALTIC CONCRETE PAVEMENT SECTION
N.T.S.



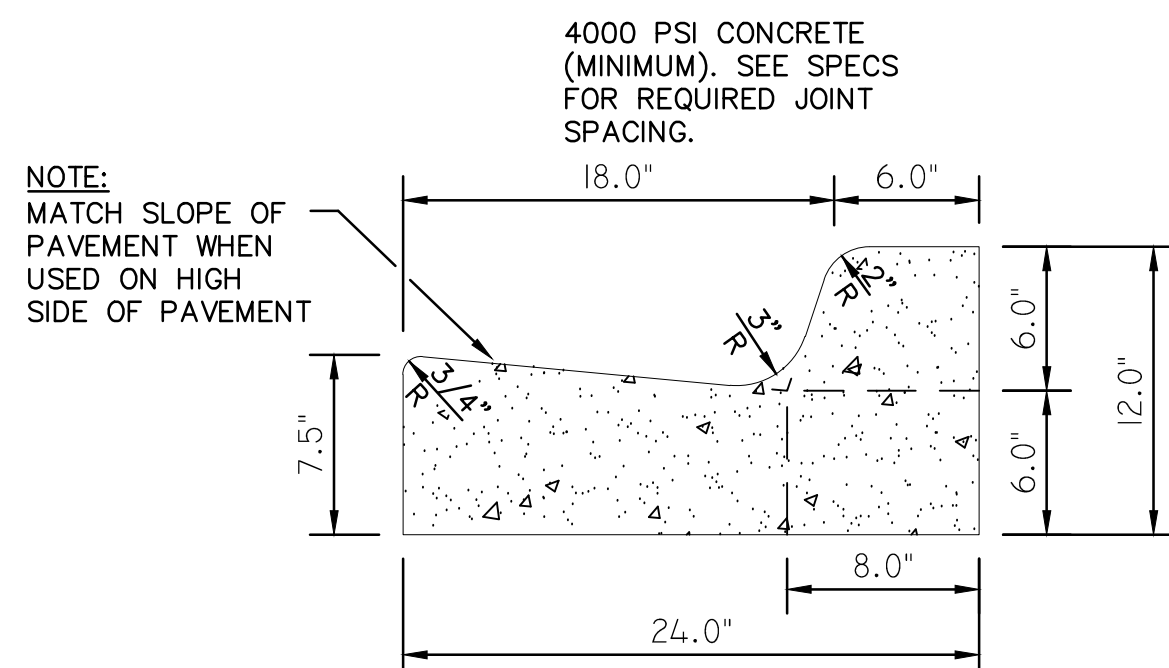
4 5' TRANSITION FROM 18" CURB TO FLAT CURB
N.T.S.



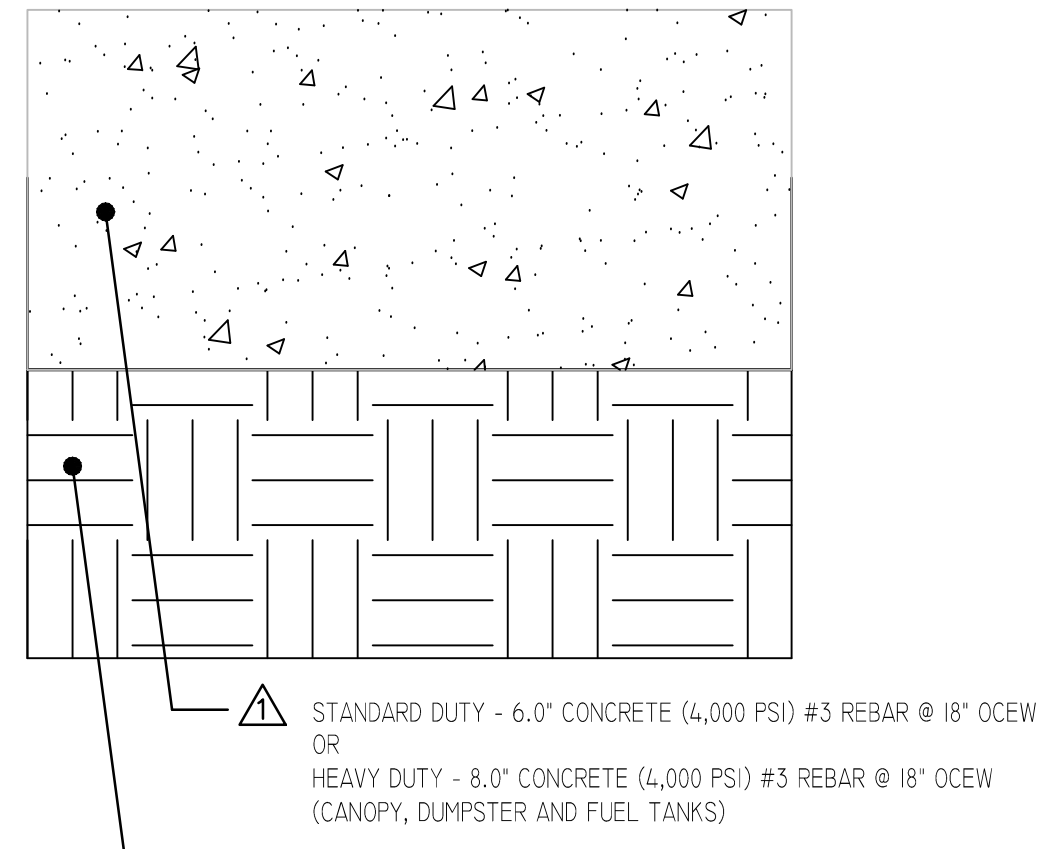
5 THICKENED EDGE CONCRETE SIDEWALK SECTION
N.T.S.



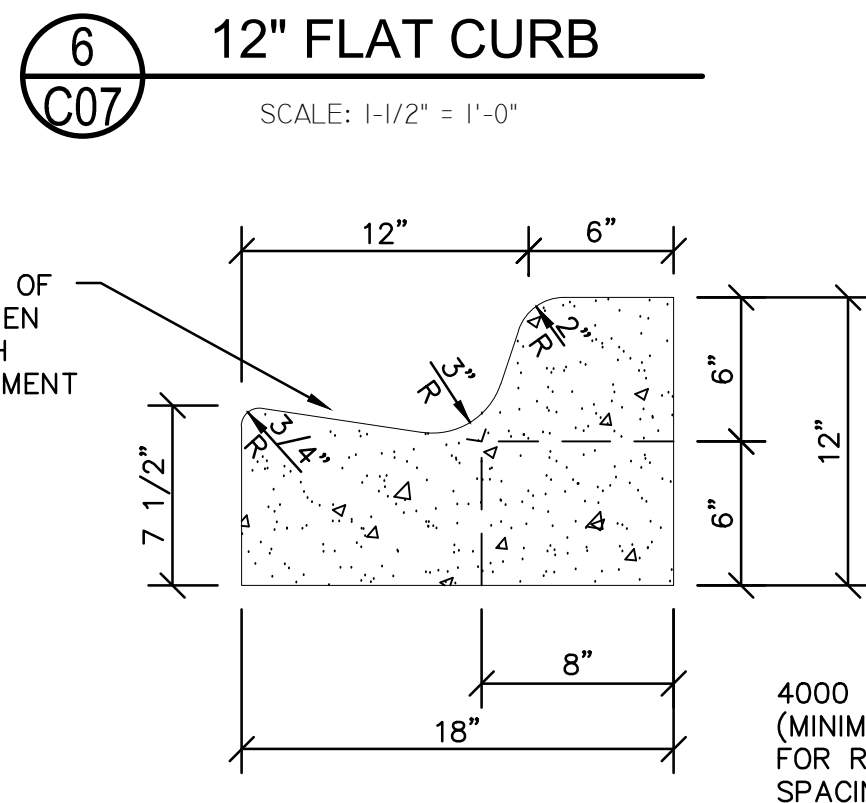
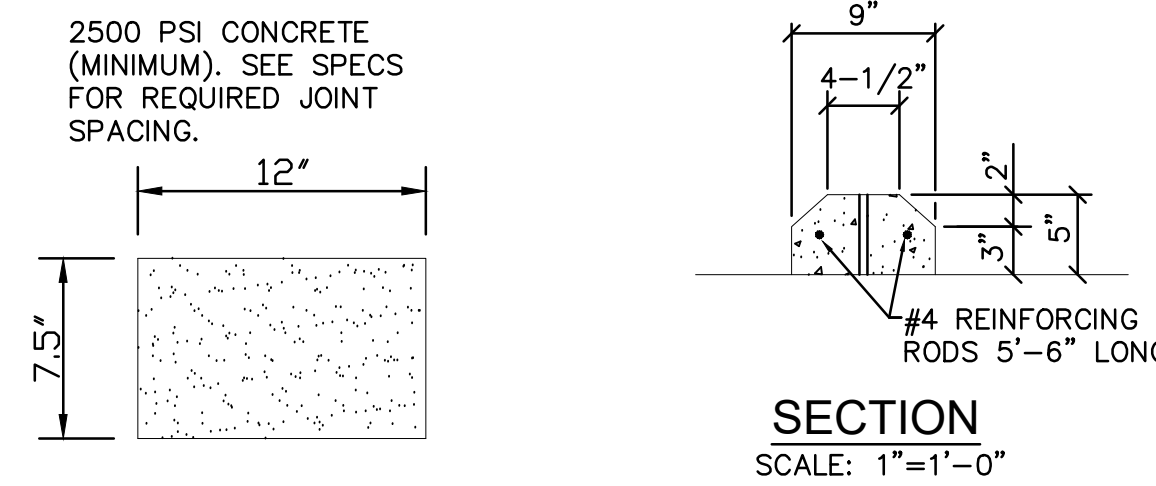
10 HANDICAPPED PARKING SIGN DETAIL
SCALE: 1" = 1'-0"



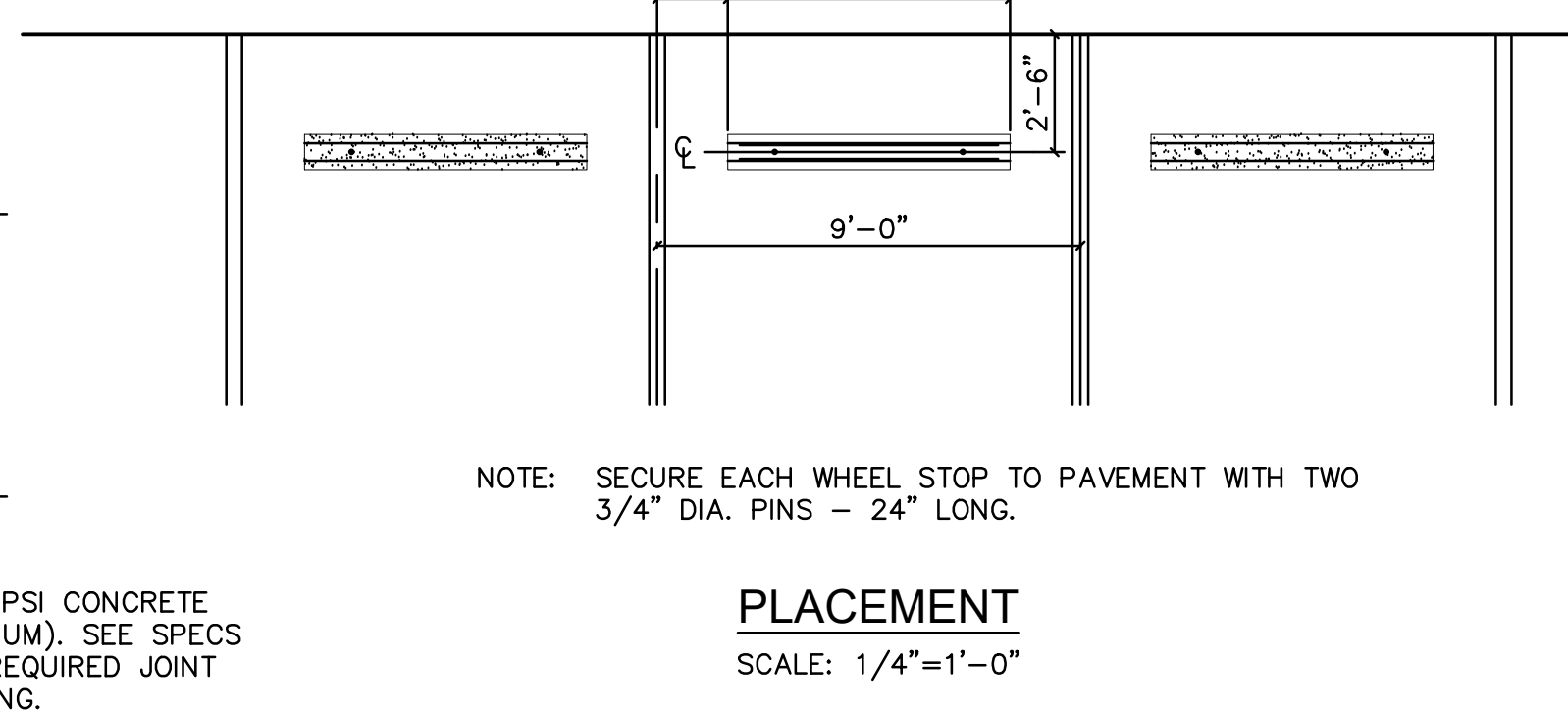
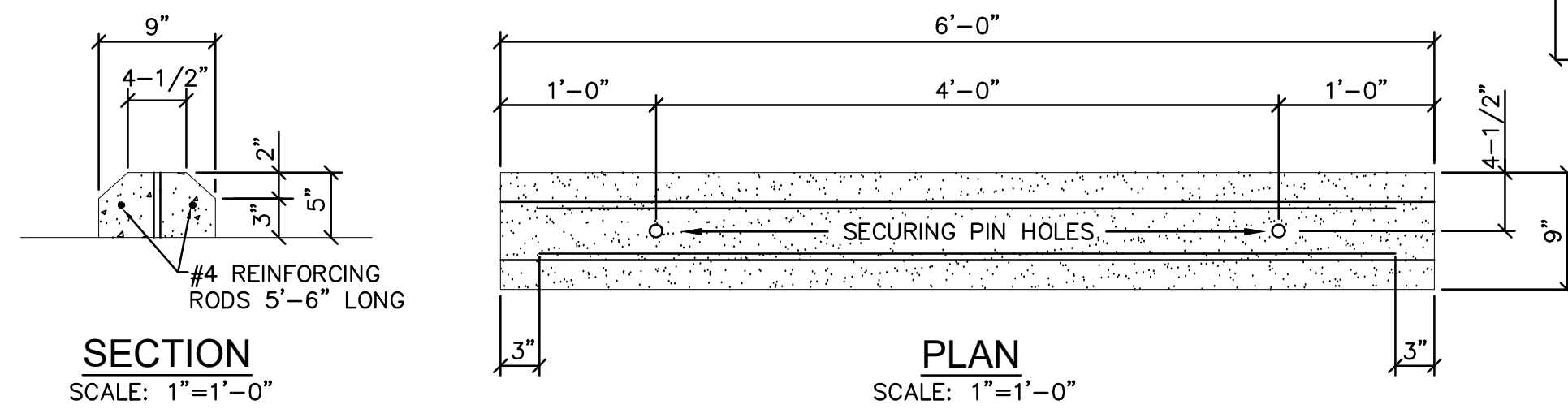
11 TYPE "F" CURB & GUTTER
SCALE: 1-1/2" = 1'-0"



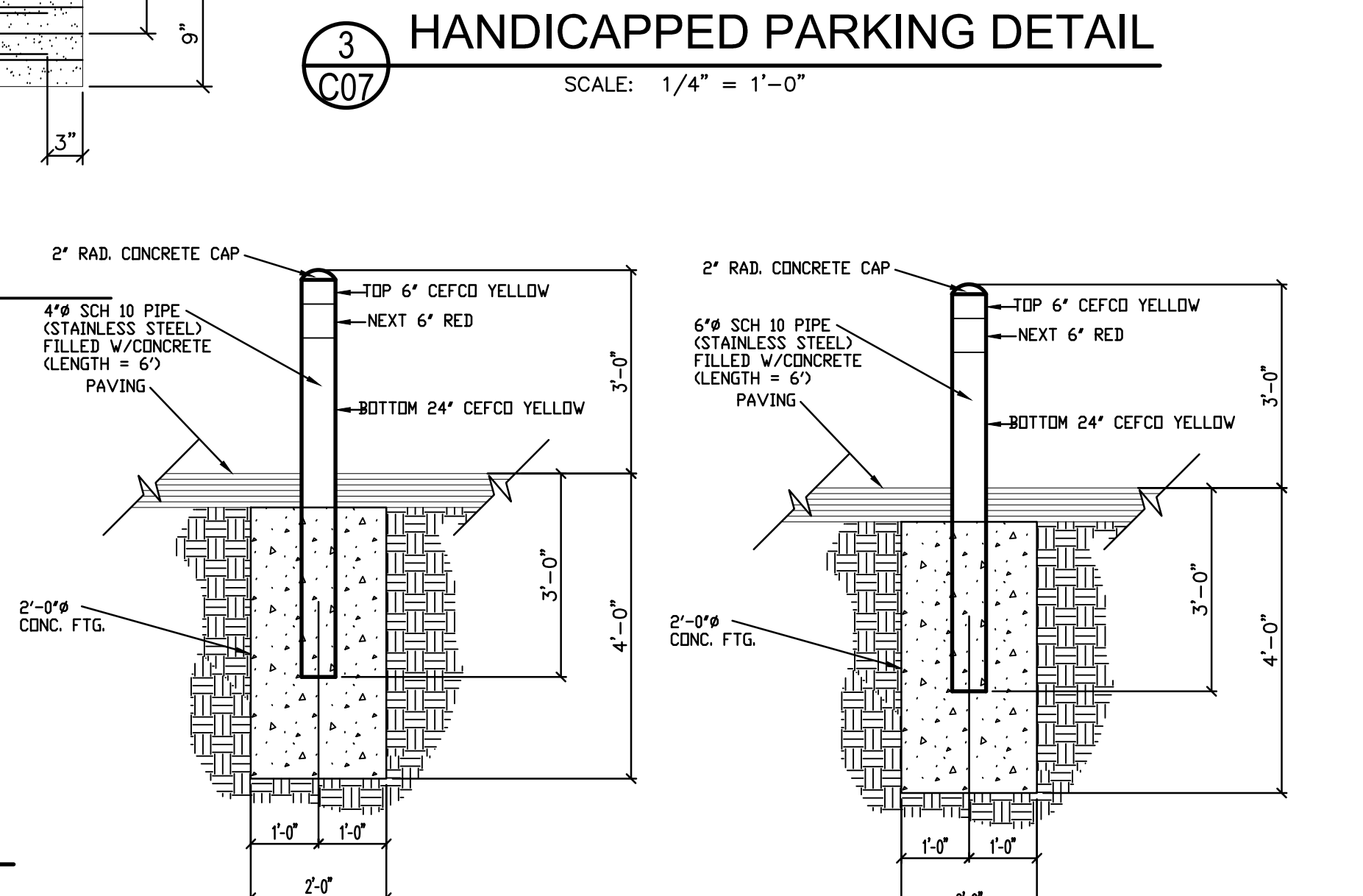
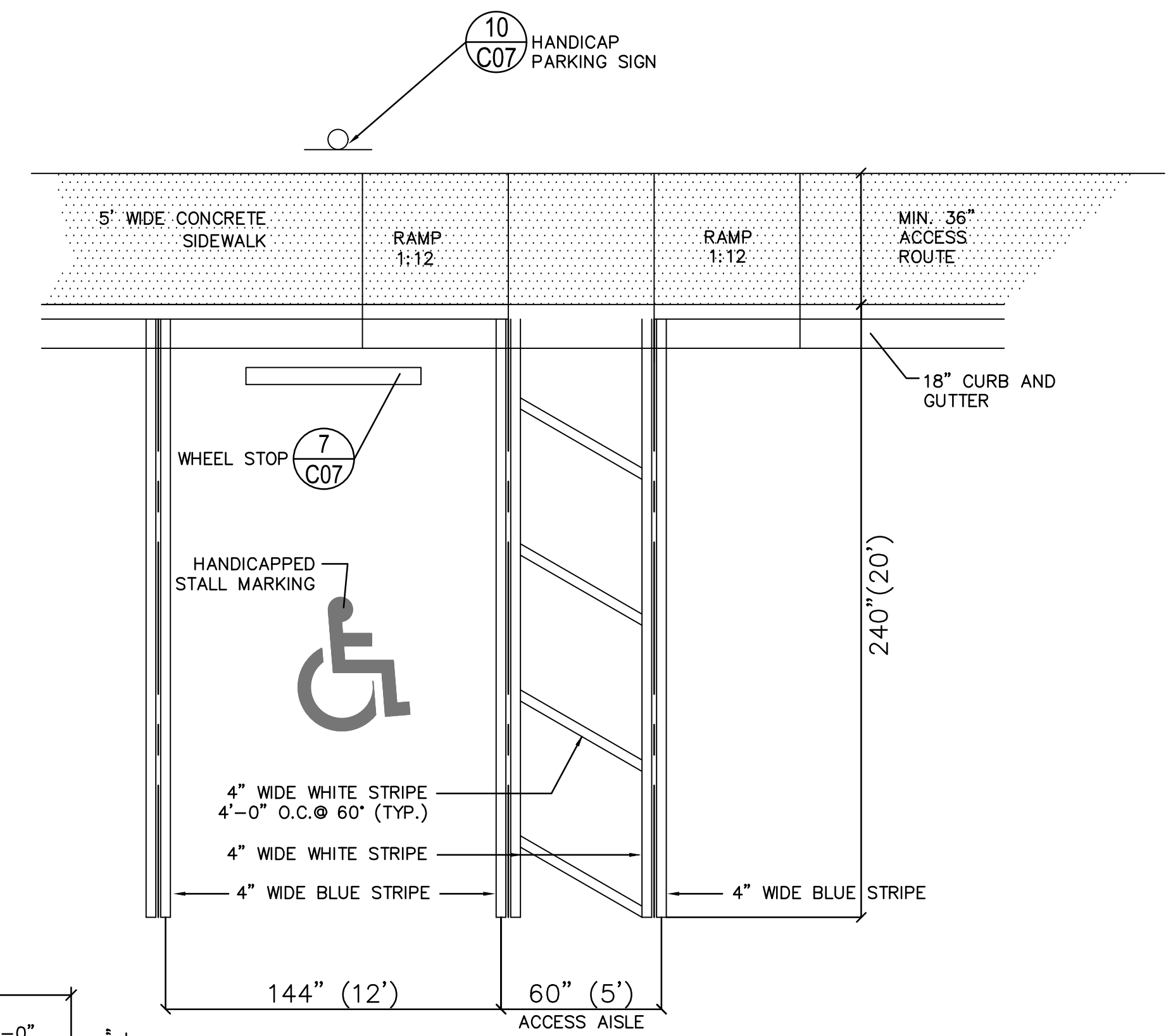
2 CONCRETE PAVEMENT SECTION
N.T.S.



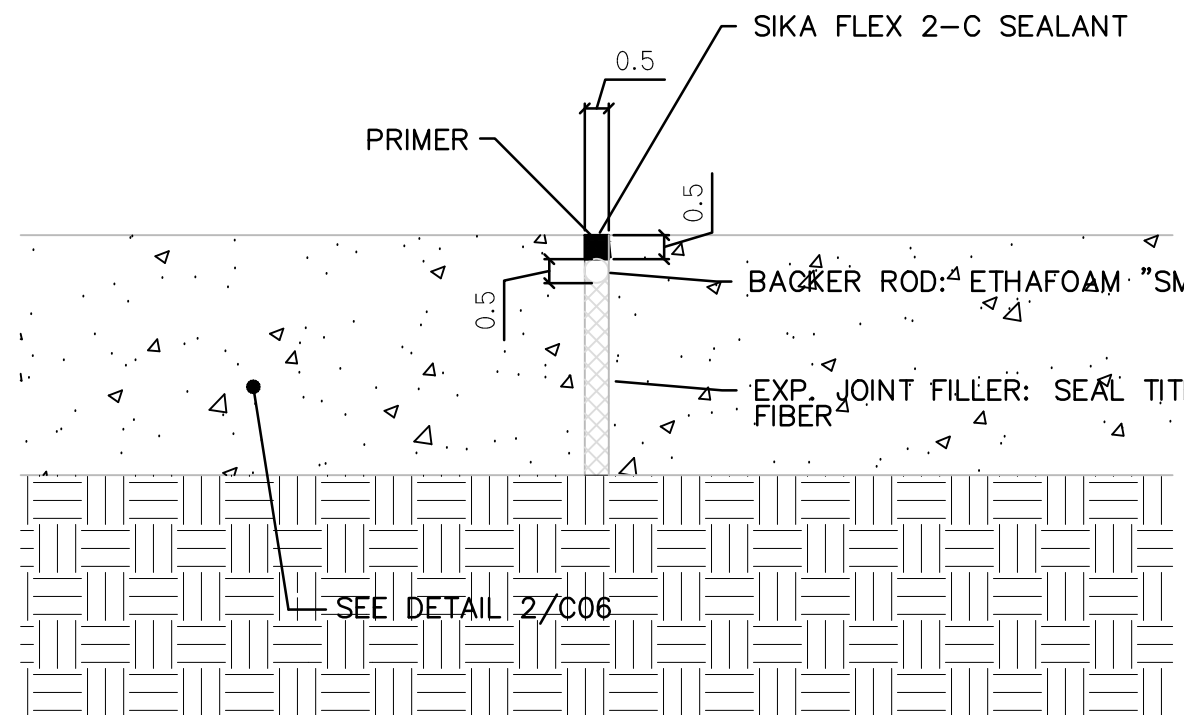
6 12" FLAT CURB
SCALE: 1-1/2" = 1'-0"



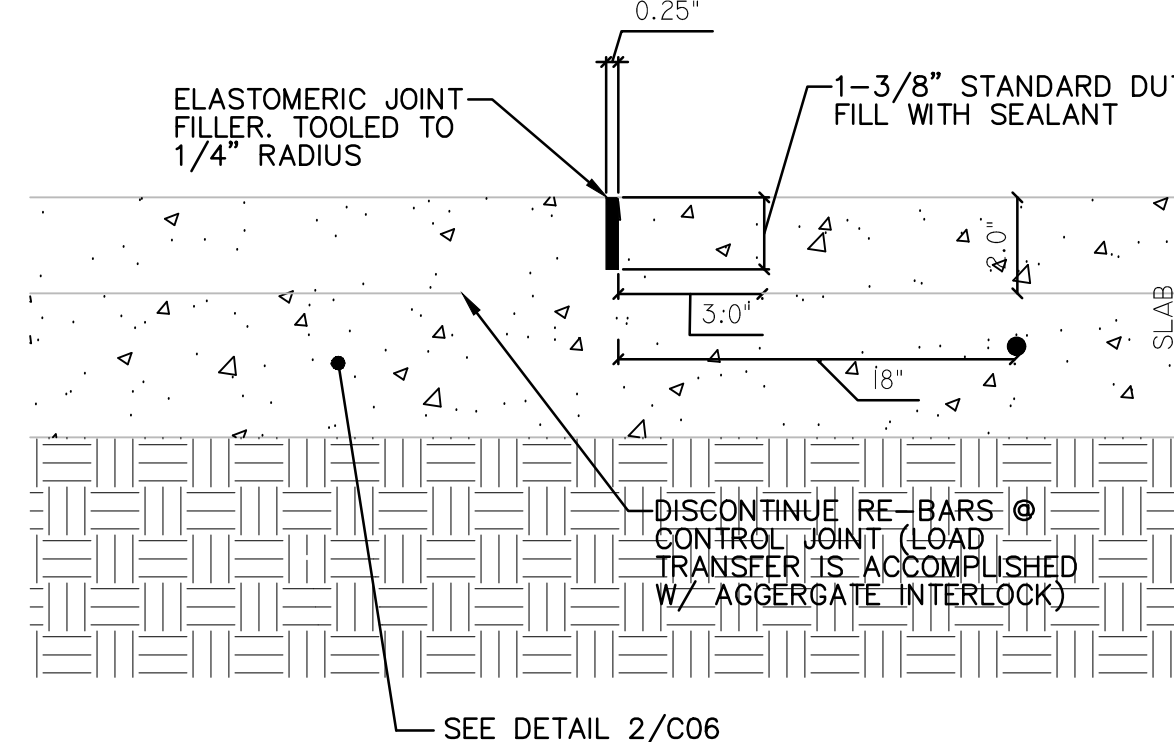
7 PRECAST CONCRETE WHEEL STOP DETAIL
SCALE: AS SHOWN



8 BOLLARD DETAILS
NOT TO SCALE



12 TYPICAL EXPANSION JOINT SECTION
SCALE: 3" = 1'-0"



13 TYPICAL CONTROL JOINT SECTION
SCALE: 3" = 1'-0"

- MASK SURFACE WITH DUCT TAPE DURING INSTALLATION OF PRIMER AND SEALANT REMOVE WHEN SEALANT HAS SET.
- EXPANSION JOINTS ARE REQUIRED WHEN ABUTTING EXISTING OR SEPARATELY POURED RIGID CONCRETE/STRUCTURES.

- CONTROL JOINT GUIDELINES:**
- LONG DIMENSION SHOULD NOT EXCEED 1 1/2 TIMES SHORT DIMENSION.
 - JOINT PATTERN SHOULD LINE UP WITH EDGE OF BUILDING WALK, CENTERLINE OF ISLANDS, AND OTHER FEATURES. ADJUST DISTANCES BETWEEN JOINTS TO FIT WITH MAXIMUM DISTANCE OF 15 FEET.
 - NO "L-SHAPED" SLABS ARE ALLOWED.
 - NO "PIE SHAPED" SLABS ARE ALLOWED.
 - JOINT MATERIAL SHOULD TIE INTO CURVED FEATURES ALONG THE RADIUS EXTENDED.
 - MAXIMUM CONTROL JOINT SPACING IS 10'x10' FOR STANDARD DUTY PAVEMENT AND 12'x12' FOR HEAVY DUTY PAVEMENT.
 - BUILDING SIDEWALK, PARKING AREAS AND VEHICULAR USE AREAS ARE TO BE SEPARATE POURS.

JENKINS ENGINEERING, INC.
73 EGLIN PARKWAY NE SUITE 203
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FAX 850.837.2450

MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

BY: _____ DATE: _____

THE FIKES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
DETAILS 1

JOB: 22-72
DATE: 2-20-2023
DESIGNED: BF/MZ
DRAWN: BF

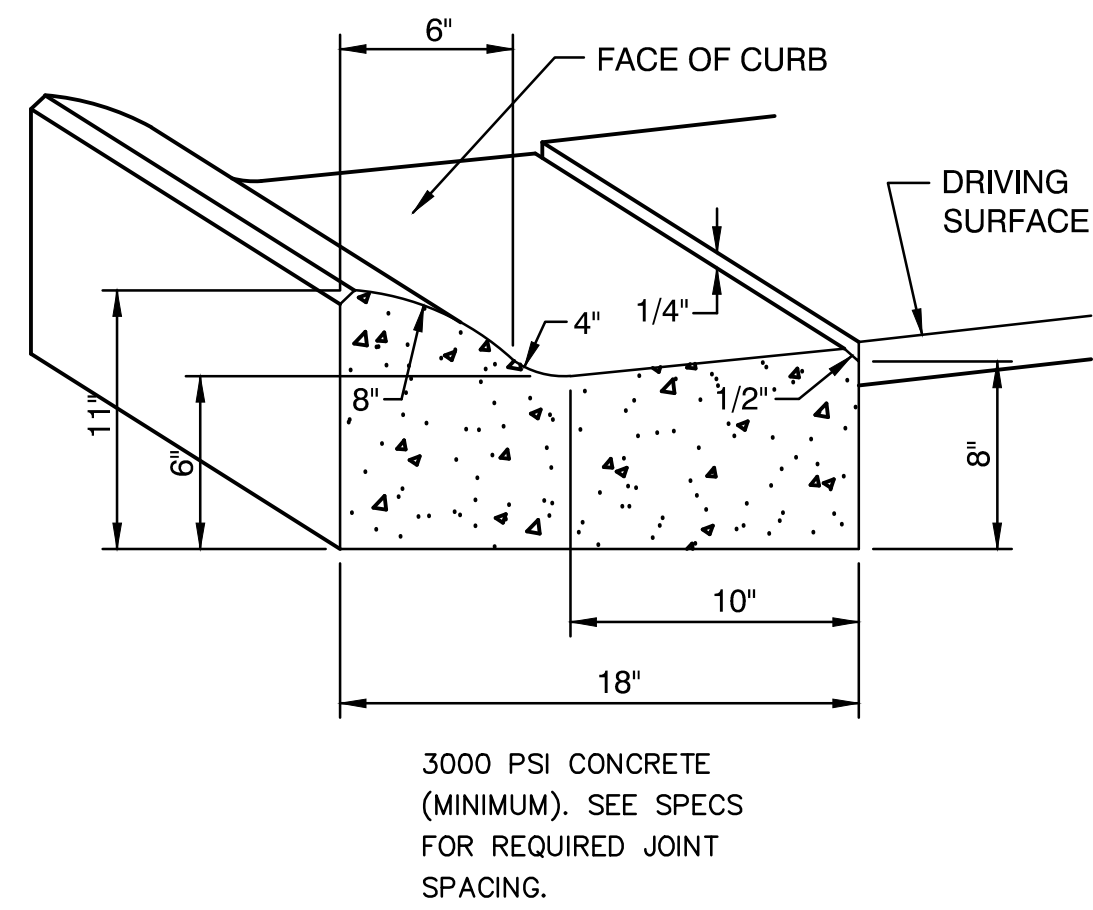
BAR IS ONE INCH ON ORIGINAL
IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
8 OF 13

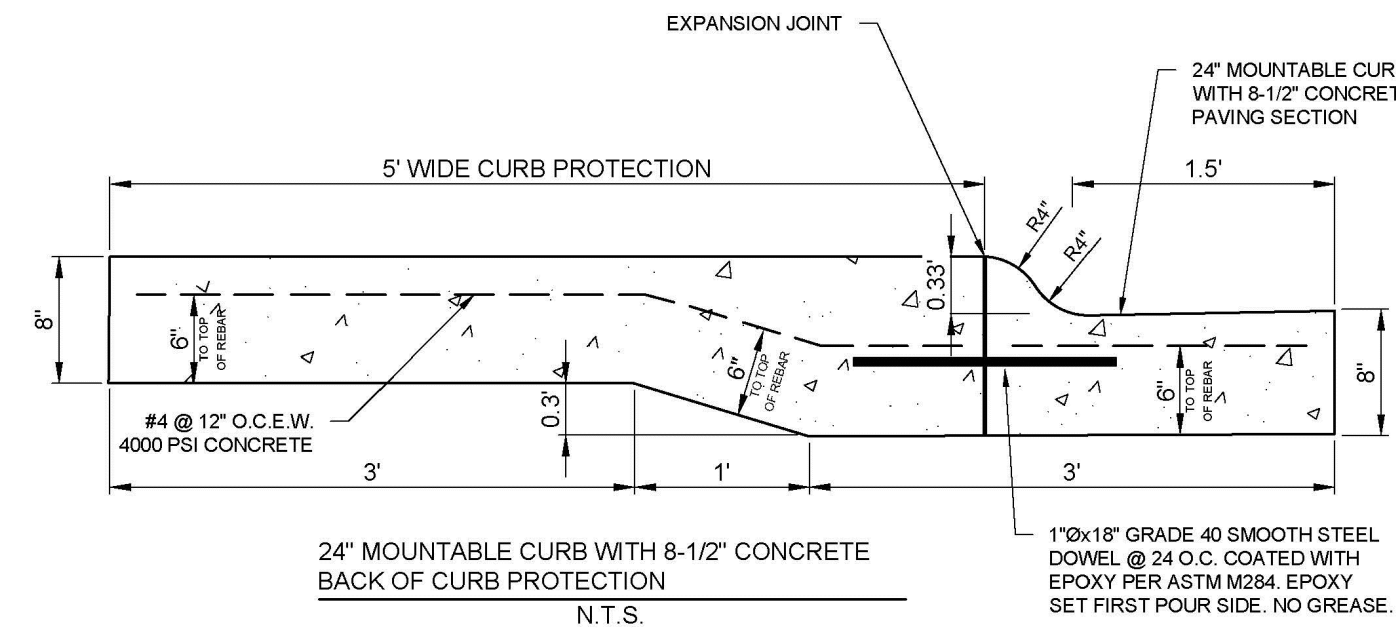
SHEET NUMBER
C07

JECIVIL.COM
C.O.A. NO. 9927 - L.B. NO. 8081

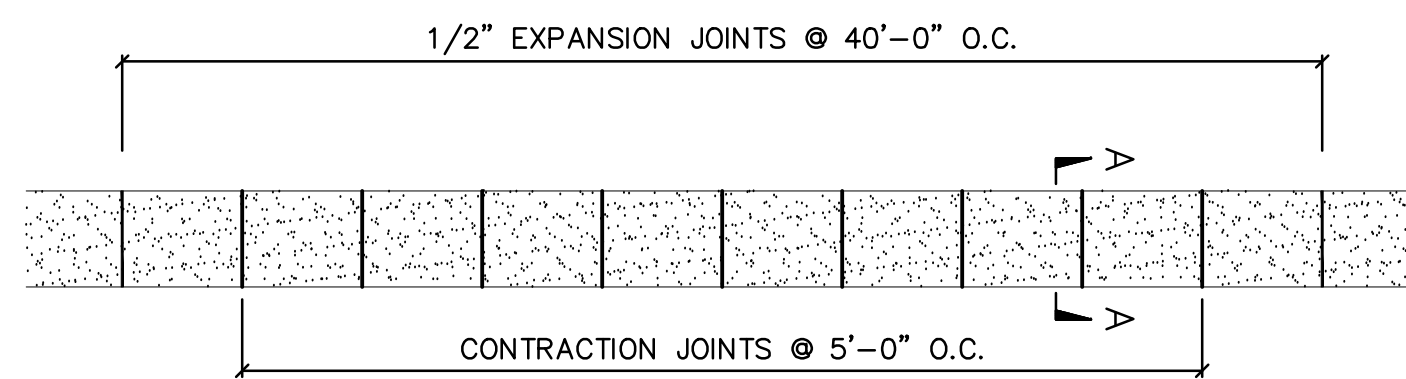
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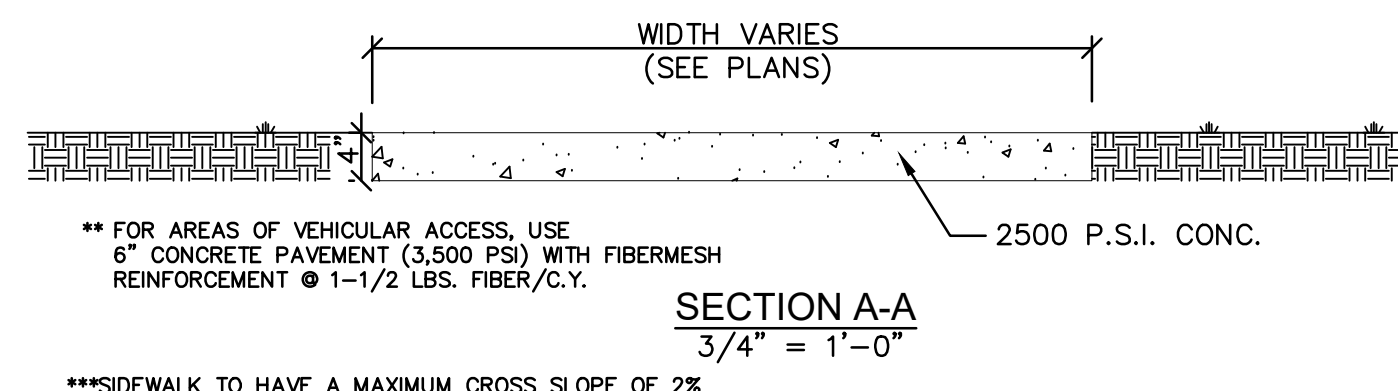
1 ROLL BACK CURB & GUTTER (MIAMI CURB)
N.T.S.



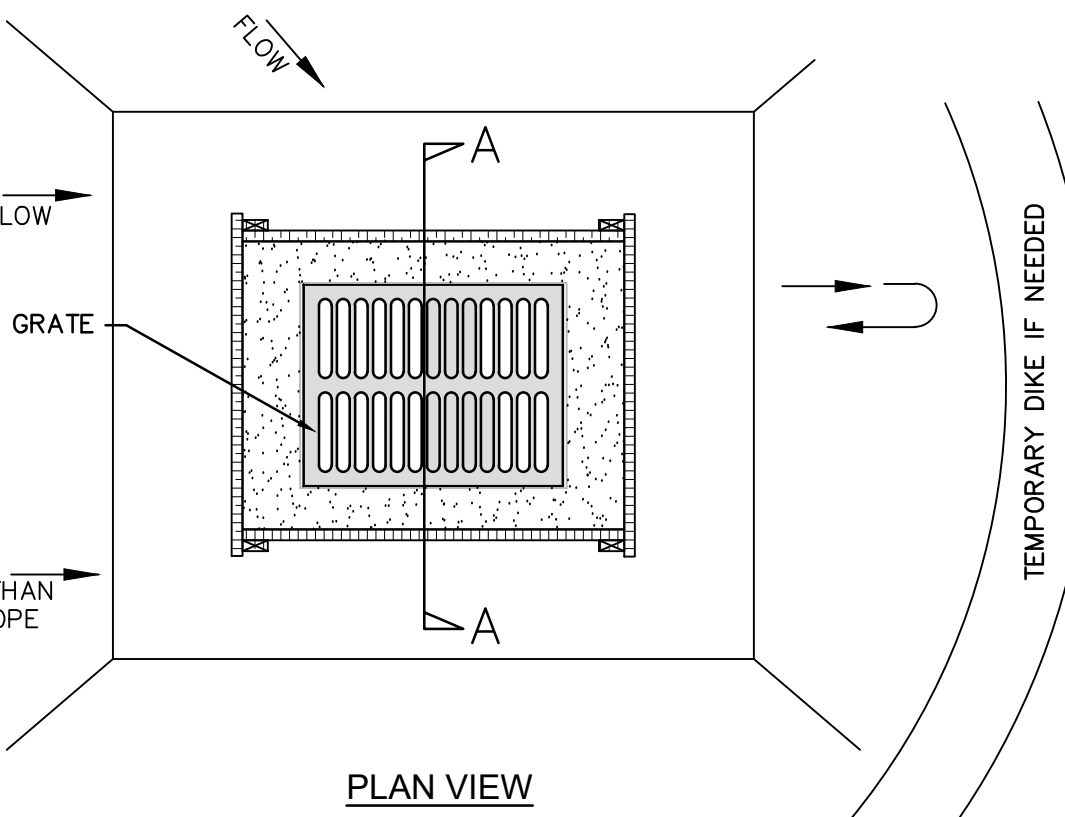
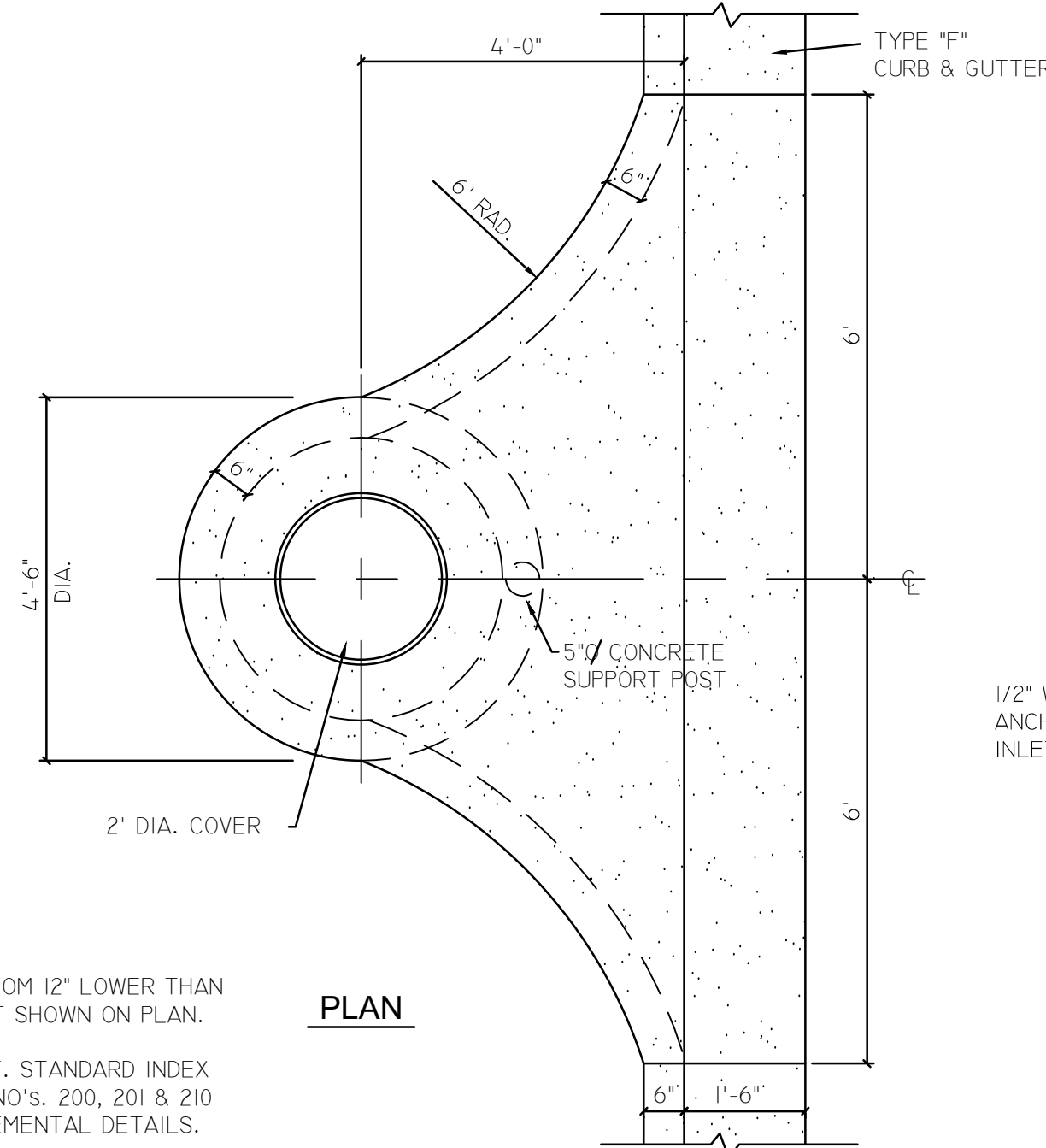
2 MOUNTABLE CURB PROTECTOR
(PROVIDED BY CEFCO)



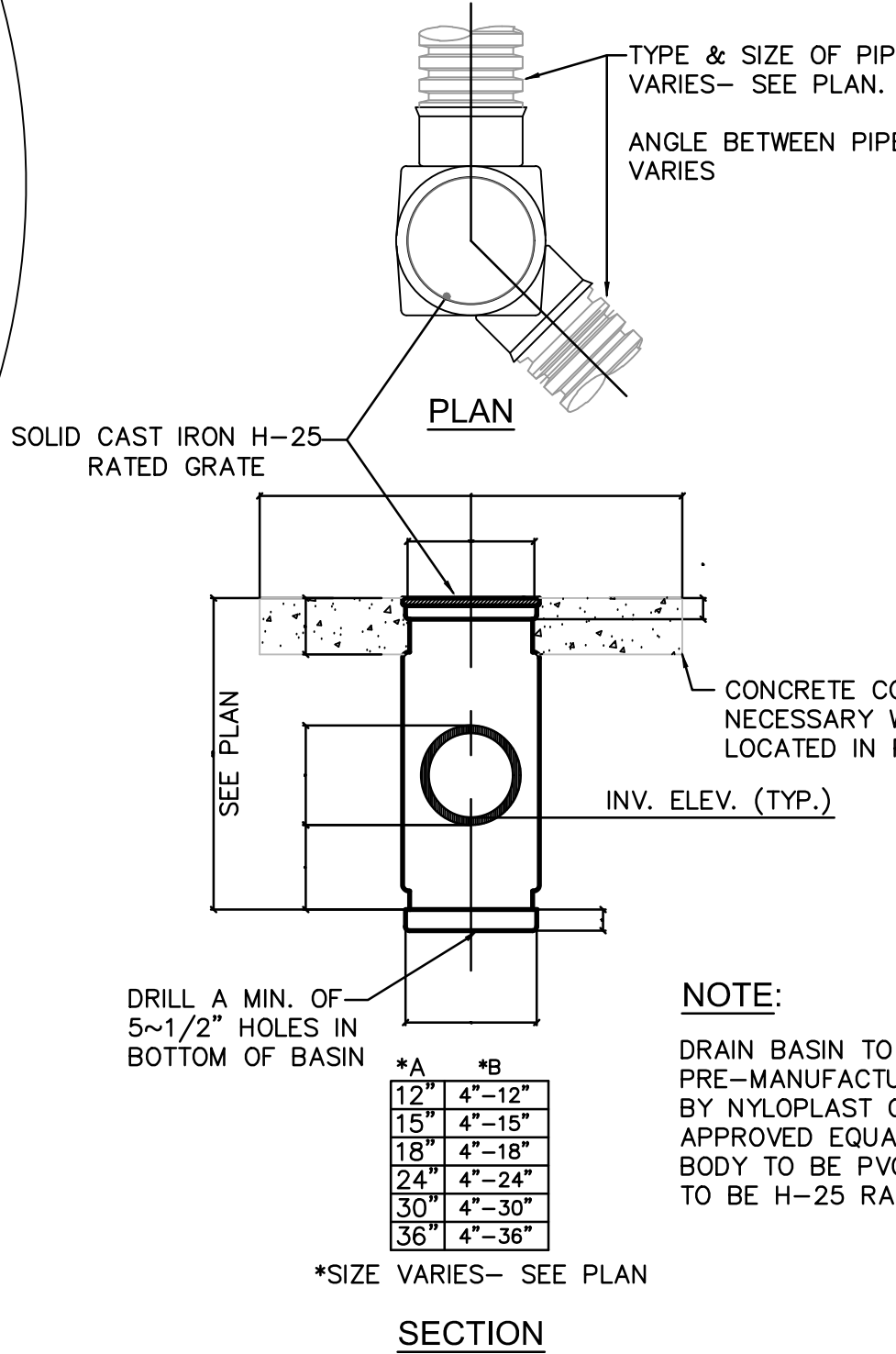
3 TYPE "9" CURB INLET
SCALE: 1/2" = 1'-0"



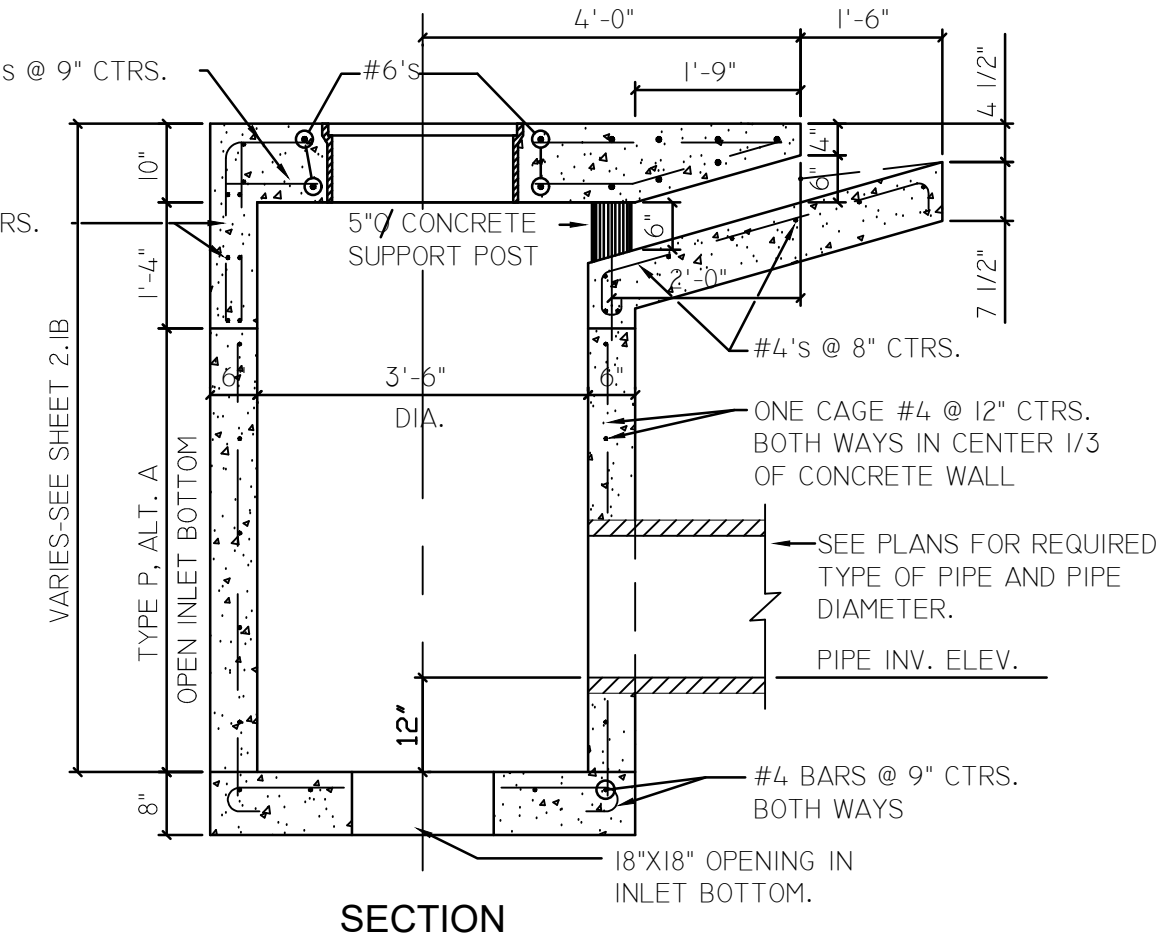
5 CONCRETE SIDEWALK DETAIL
SCALE: AS SHOWN



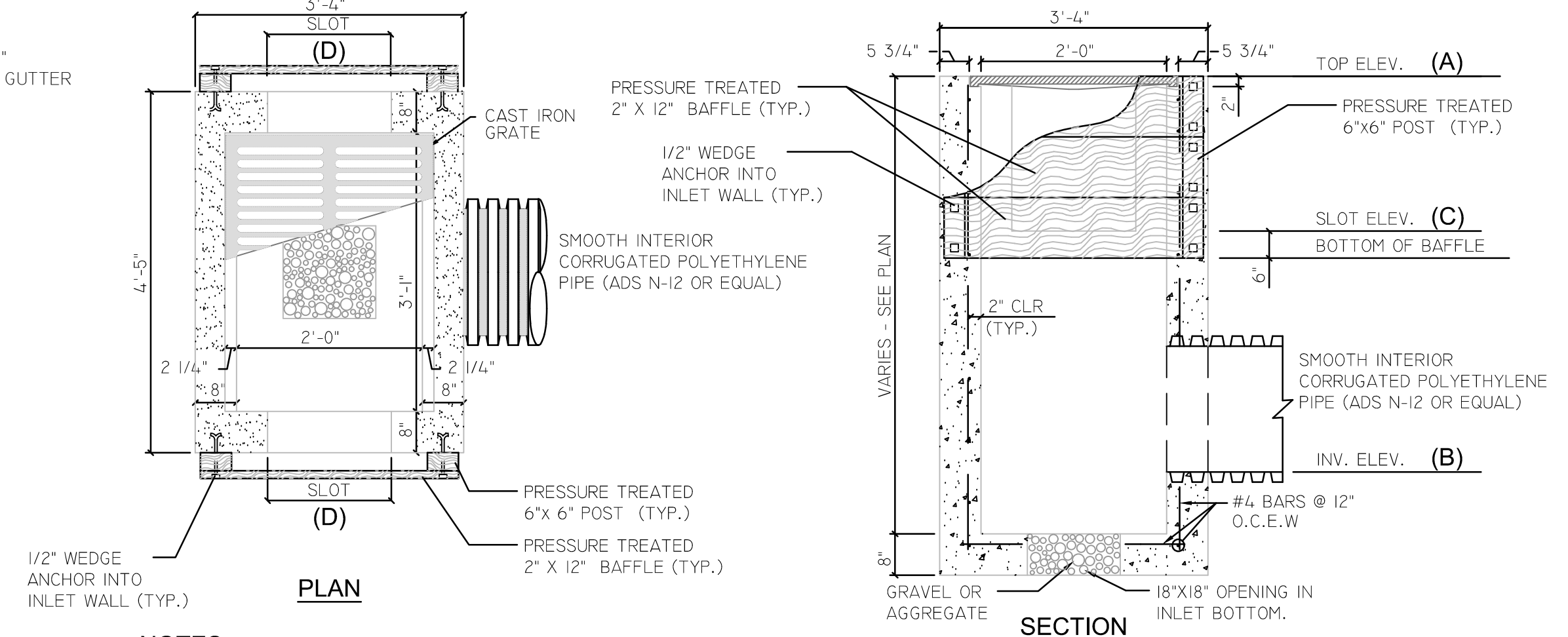
6 INLET PROTECTION DETAIL
N.T.S.



7 STORM CLEAN-OUT
SCALE: 1/2" = 1'-0"

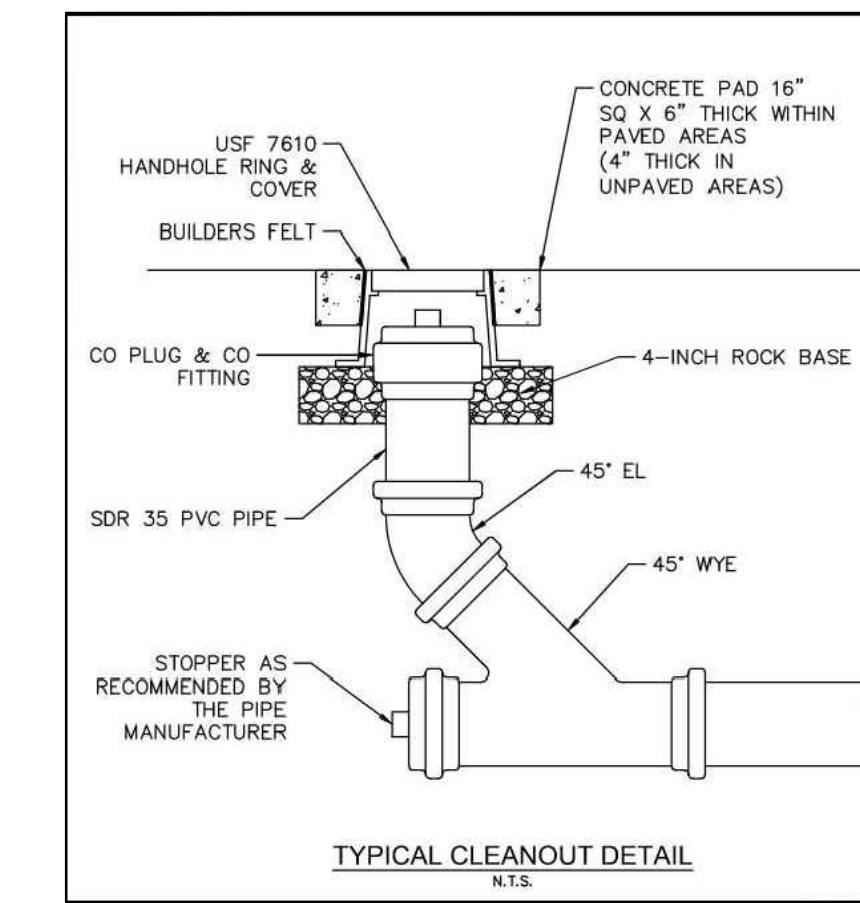


8 TYPE 4 CURB INLET
SCALE: 1/2" = 1'-0"

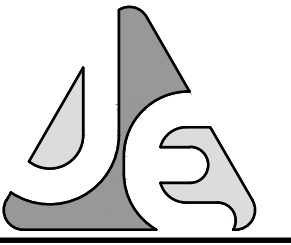


4 TYPE "C" STORM INLET
SCALE: 1/2" = 1'-0"

9 SLOTTED TYPE "C" INLET
SCALE: 1/2" = 1'-0"



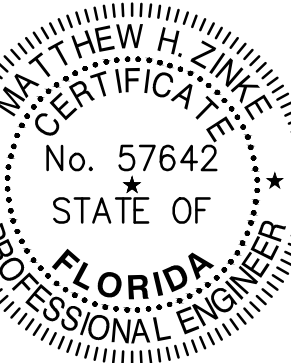
10
C08



JENKINS ENGINEERING, INC.

73 EGLIN PARKWAY NE, SUITE 203
FORT WALTON BEACH, FLORIDA 32548
PHONE 850.837.2448
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C.O.A. NO. 9927 - L.B. NO. 8081

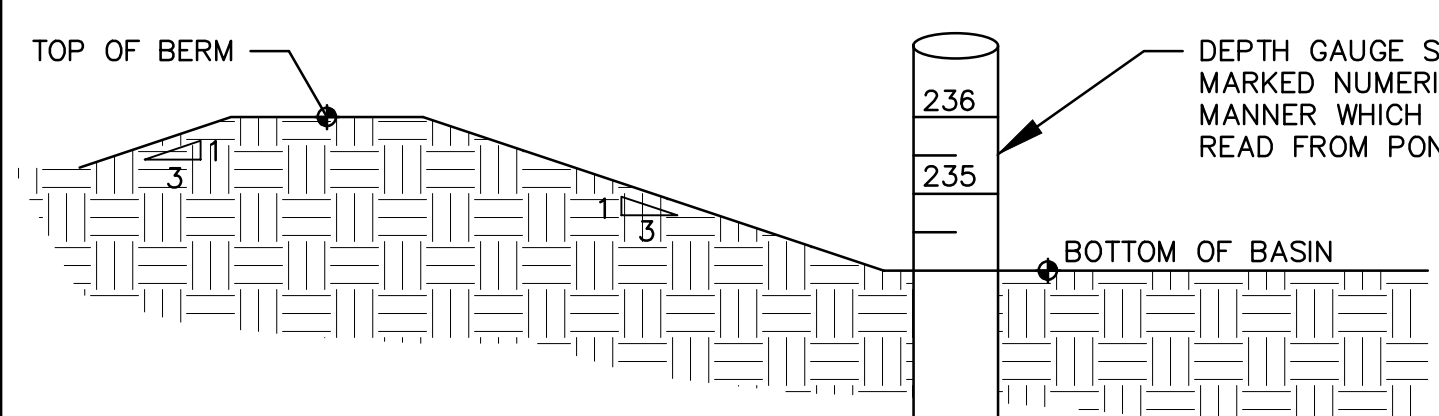


MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION
1	5/17/2023	REVISED PER CITY, FOOT AND IN/4M COMMENTS
2		
3		
4		
5		
6		
7		
8		

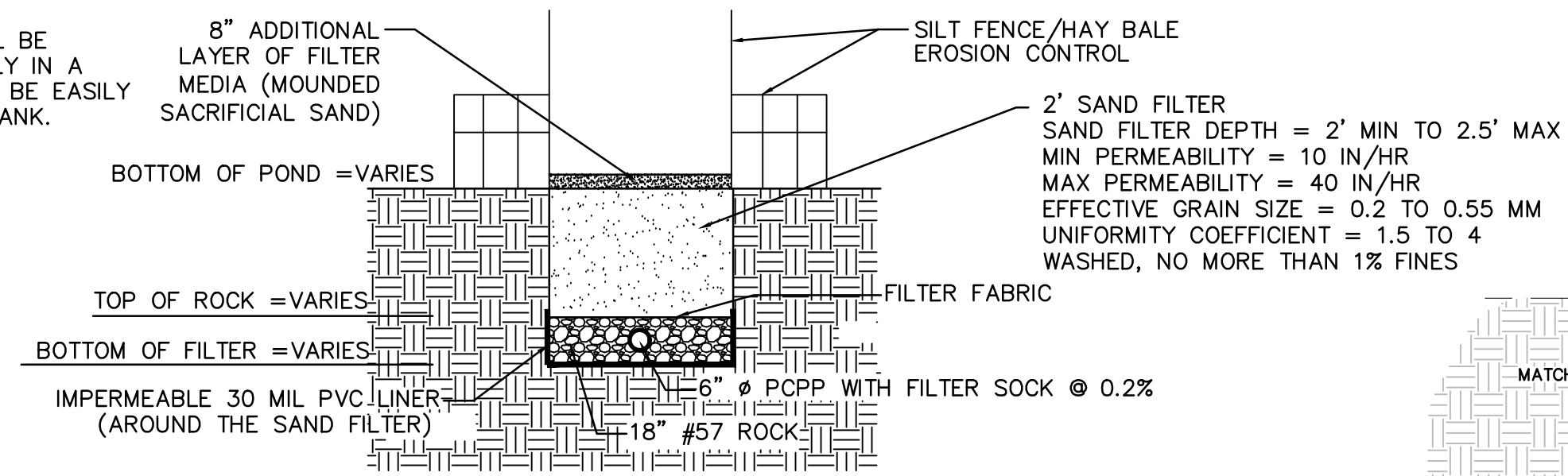
THE FIKES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
DETAILS II
JOB: 22-72
DATE: 2-20-2023
DESIGNED: BF/MZ
DRAWN: BF
BAR IS ONE INCH ON ORIGINAL
IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY
DRAWING NUMBER
9 OF 13
SHEET NUMBER
C08

File: D:\RFB\JEN\22-22 CEFCO DFS I-10 & 331 - Documents\Drawings\CEFCO DFS Truck Stop I-10 & 331 2023-5-16 pond working.dwg Last Save: 5/18/2023 11:05 AM Last saved by: RFB
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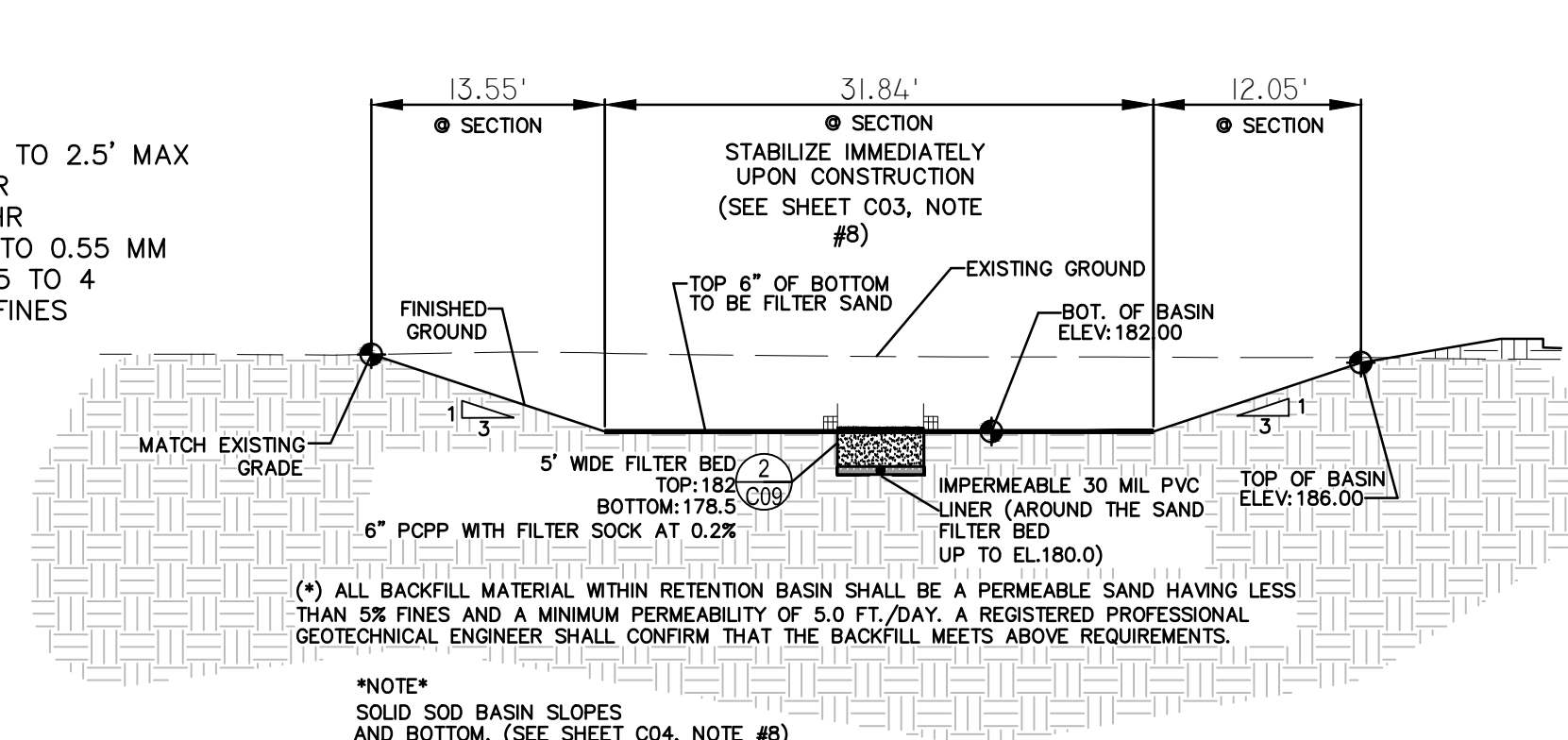
- NOTE:
1. DEPTH GAUGE (OR EQUIVALENT) SHALL BE INSTALLED AND MAINTAINED IN FILTER POND. THE MINIMUM HEIGHT ABOVE THE GROUND SHALL BE THAT OF THE TREATMENT VOLUME. SHOULD THE GAUGE STAND HIGHER THAN THE TREATMENT ELEVATION, THAT ELEVATION NEEDS TO BE CLEARLY MARKED ON GAUGE.
 2. THE GAUGE SHALL BE MOUNTED AND STABILIZED TO PREVENT MOVEMENT DUE TO REASONABLY ANTICIPATED CONDITIONS.
 3. THE GAUGE SHALL BE MARKED IN ONE TENTH FOOT INCREMENTS WITH VERTICAL ELEVATIONS INDICATED AT ONE FOOT INTERVALS, OR BE MARKED WITH A SIMILAR STYLE APPROVED BY THE DISTRICT. THE ELEVATION REPRESENTING THE TREATMENT VOLUME STAGE SHALL BE CLEARLY INDICATED, AND SHALL BE VERIFIED BY SURVEY.

1 DEPTH GAUGE DETAIL
NOT TO SCALE



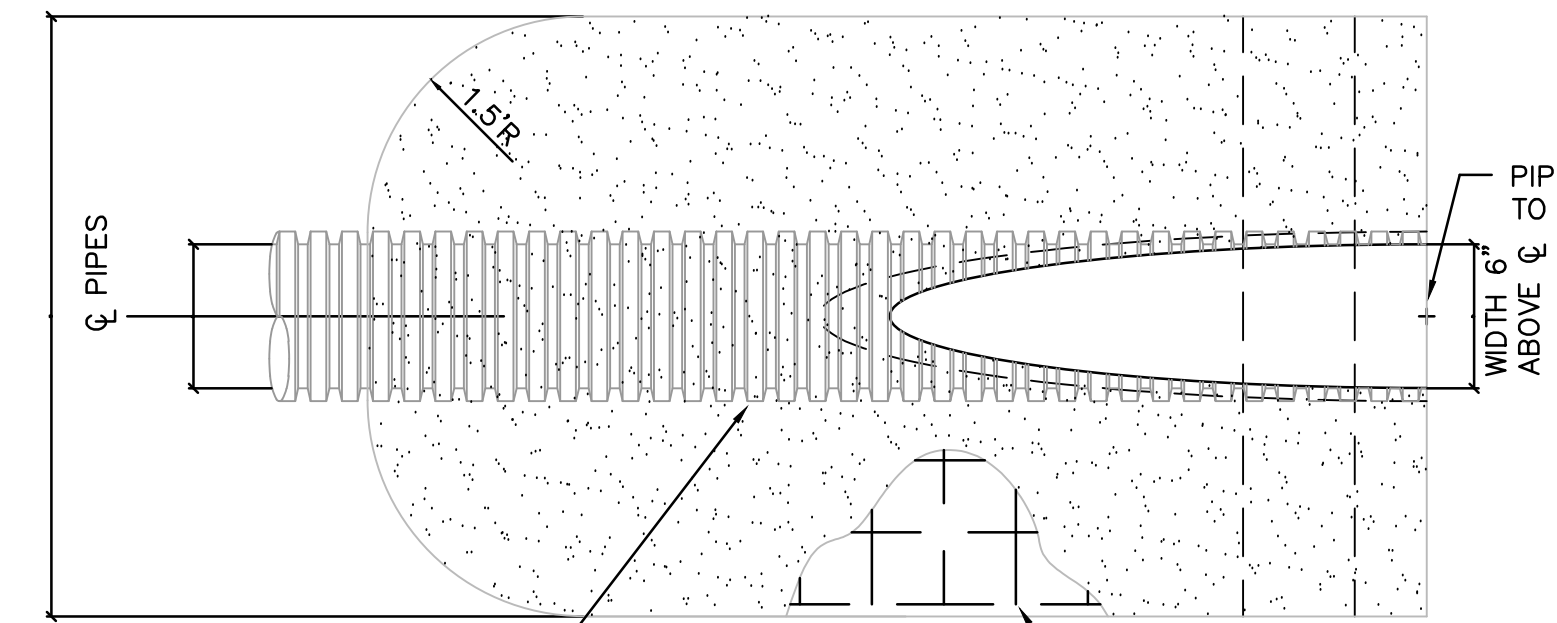
- NOTE:
1. PROVIDE ENGINEER-OF-RECORD ANALYSIS OF SAND SPECS BEFORE PLACEMENT.
 2. SEE PLAN VIEW FOR PIPE SIZE, LENGTH, AND PLACEMENT
 3. PLACEMENT OF AN IMPERMEABLE LINER (MINIMUM 30 MIL THICKNESS) SHALL BE BETWEEN THE FILTER MEDIA AND NATIVE SOIL, UP TO AN ELEVATION AT OR ABOVE THE SEASONAL HIGH GROUNDWATER.

2 SAND FILTER - PHASE I
SCALE: 1" = 5'-0"

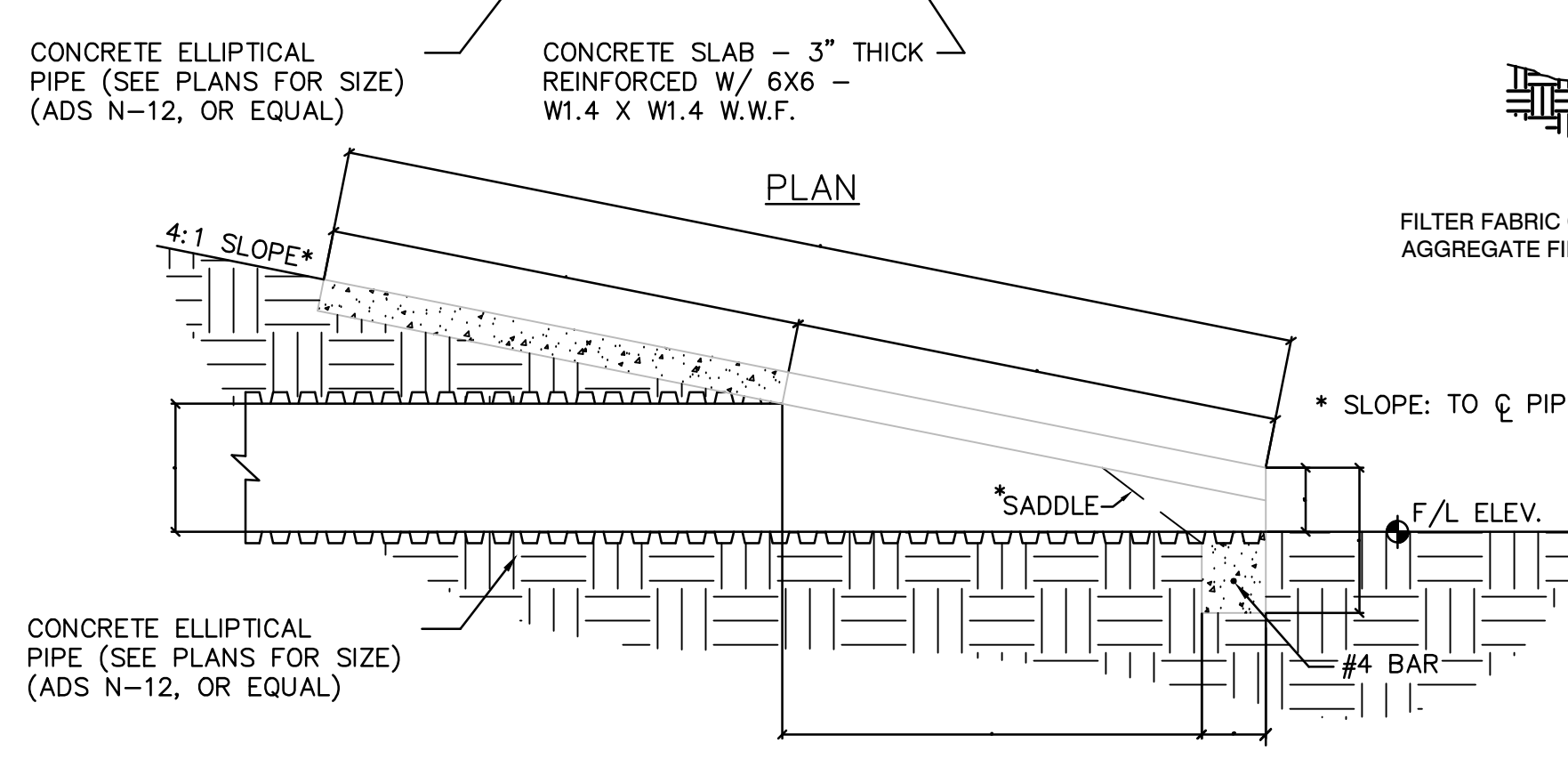


3 RETENTION BASIN #1
NOT TO SCALE

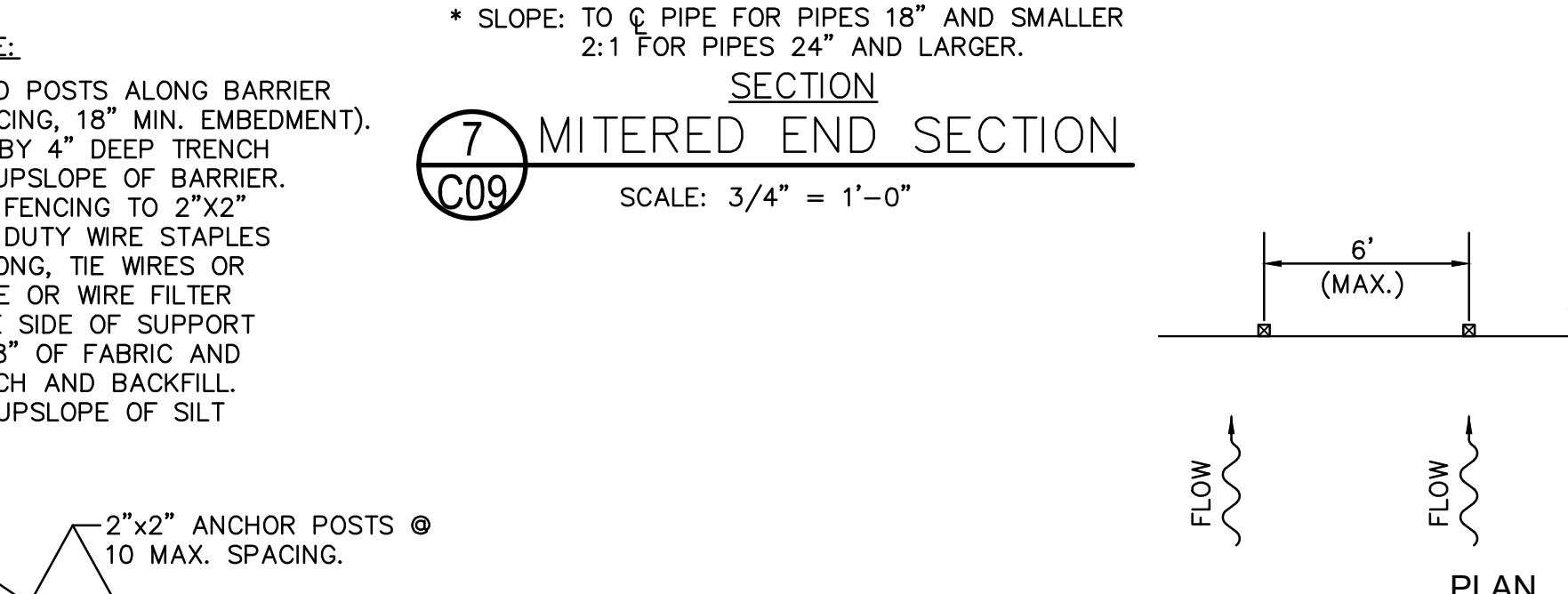
DIMENSIONS							
D	A	B	C	G	M	N	E
18"	2.50'	4.12'	6.62'	1.41'	4.58'	1.04'	4.00'
24"	2.50'	6.18'	8.68'	1.73'	5.08'	1.04'	6.00'
36"	2.50'	10.31'	12.81'	2.24'	6.08'	1.04'	10.00'



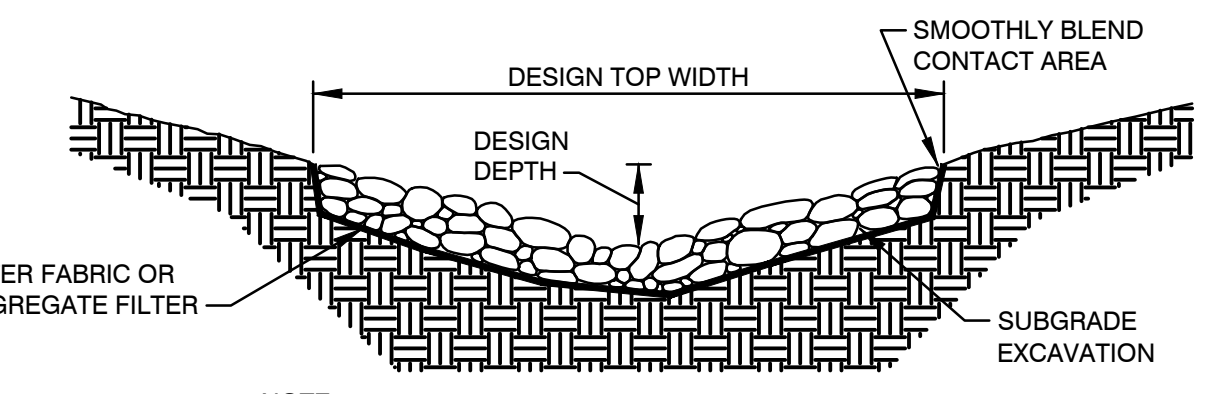
4 ROOF DRAIN CONNECTION DETAIL
NOT TO SCALE



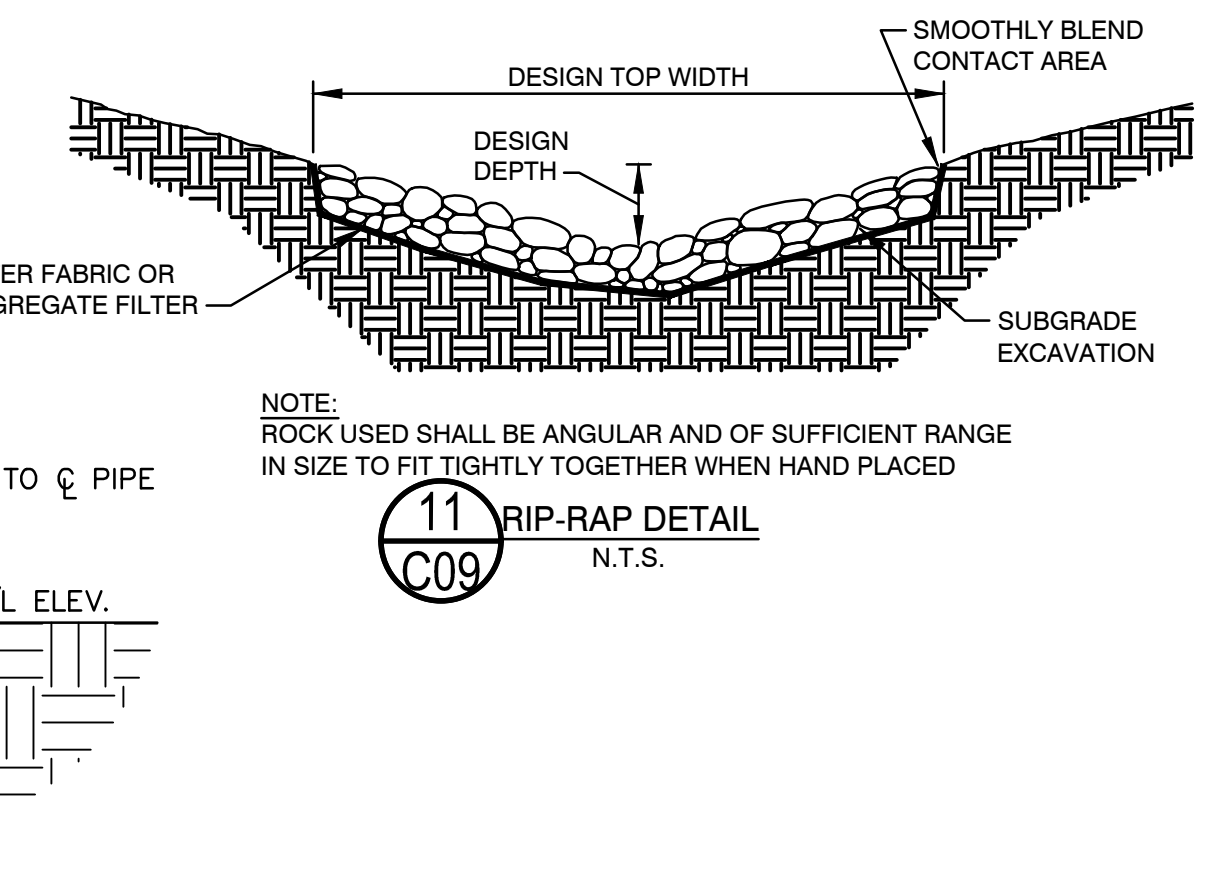
5 RETENTION BASIN #2
NOT TO SCALE



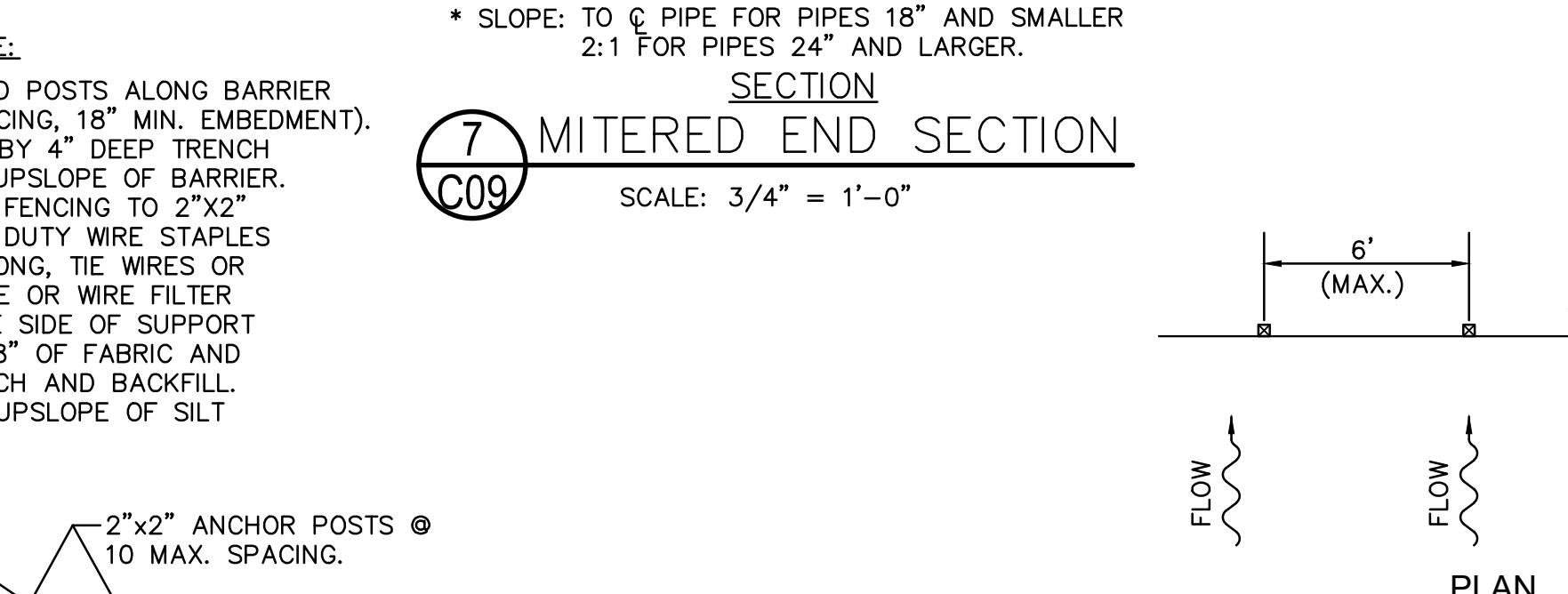
6 RETENTION BASIN #3
NOT TO SCALE



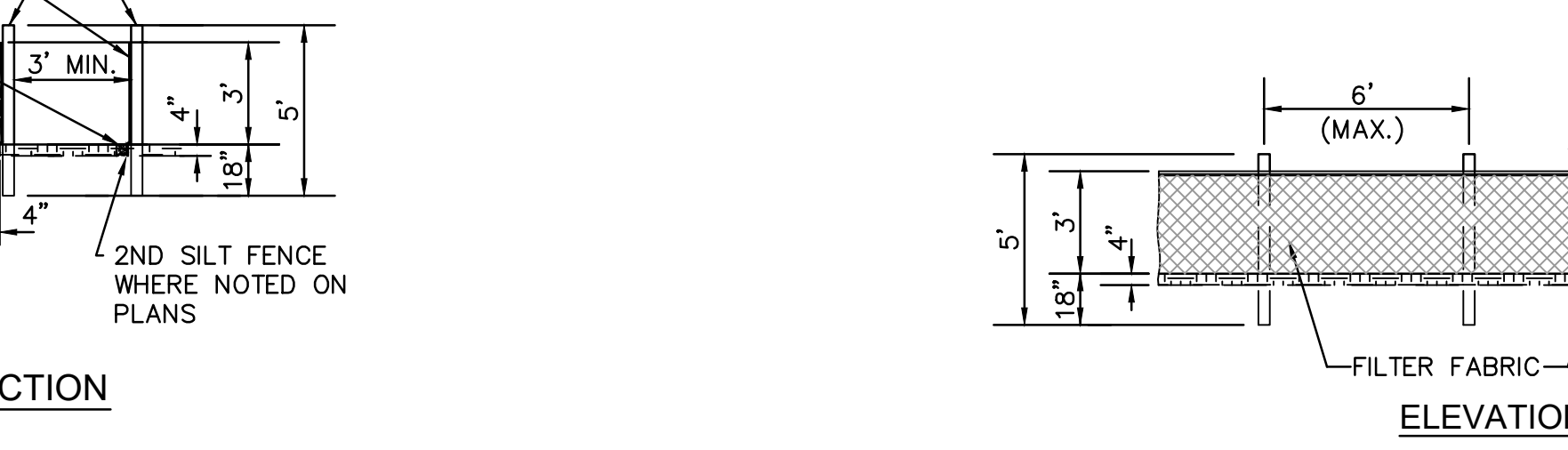
7 MITERED END SECTION
SCALE: 3/4" = 1'-0"



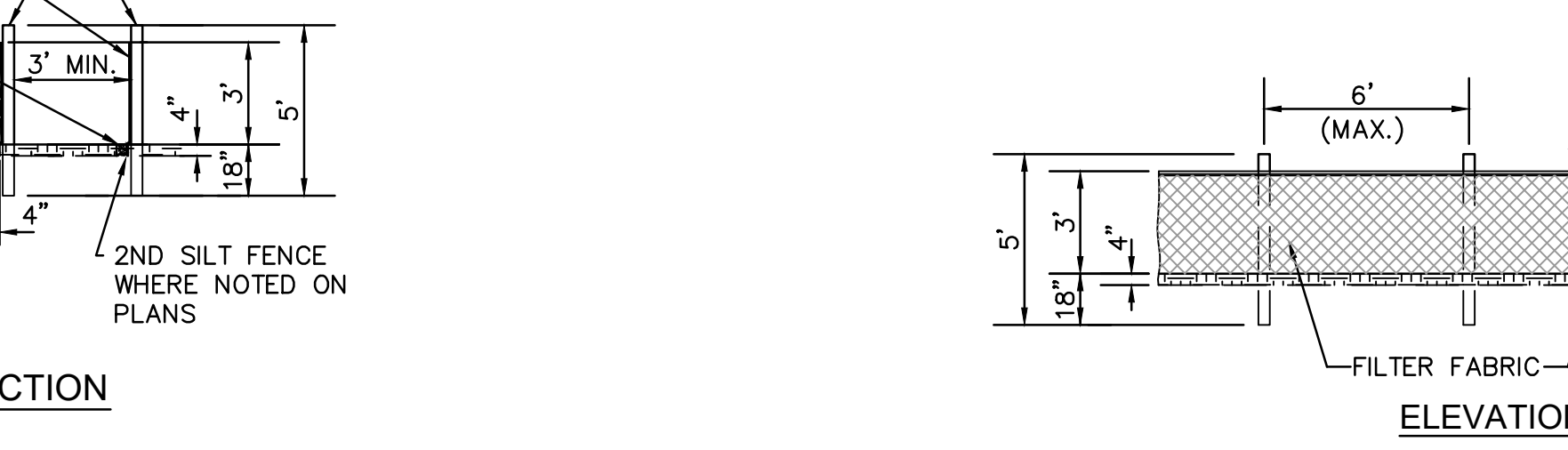
8 STORM MANHOLE
SCALE: 1/2" = 1'-0"



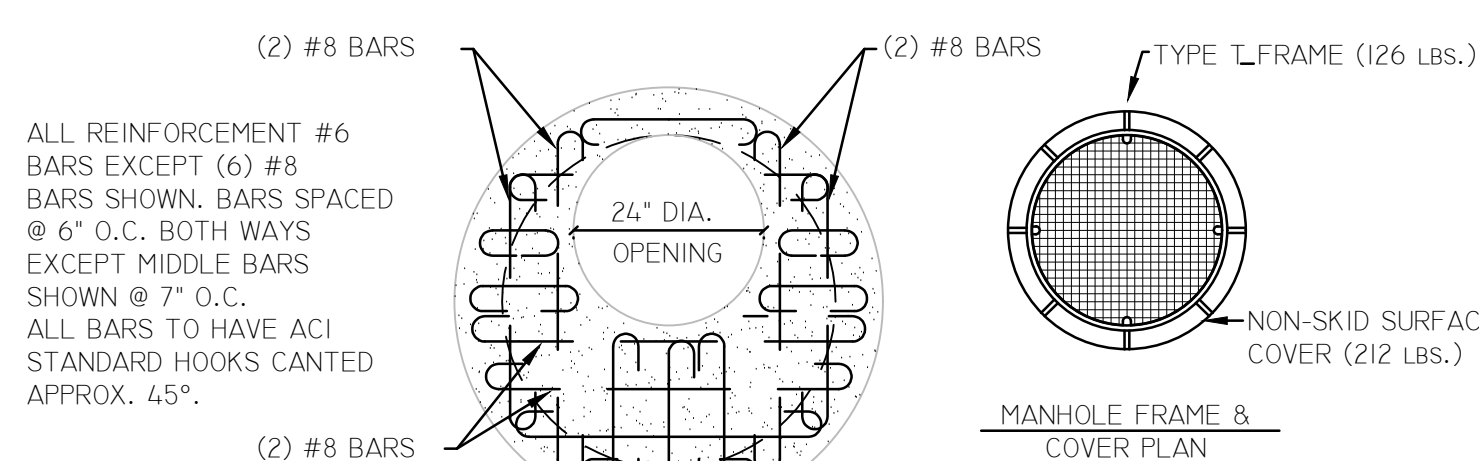
9 TYPICAL EROSION CONTROL DETAILS
SCALE: 1" = 5'-0"



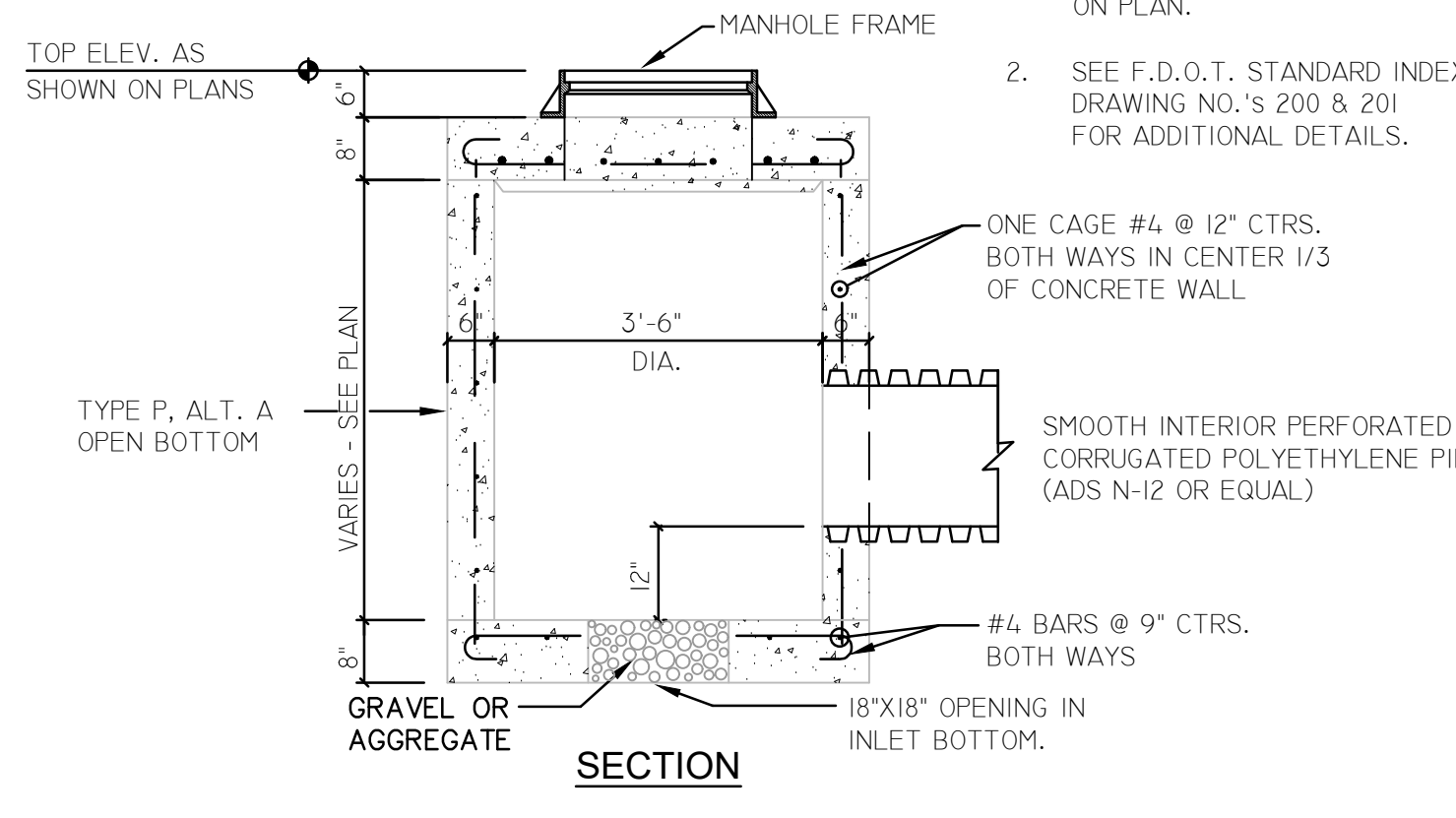
10 SILT FENCE DETAIL
SCALE: 1" = 5'-0"



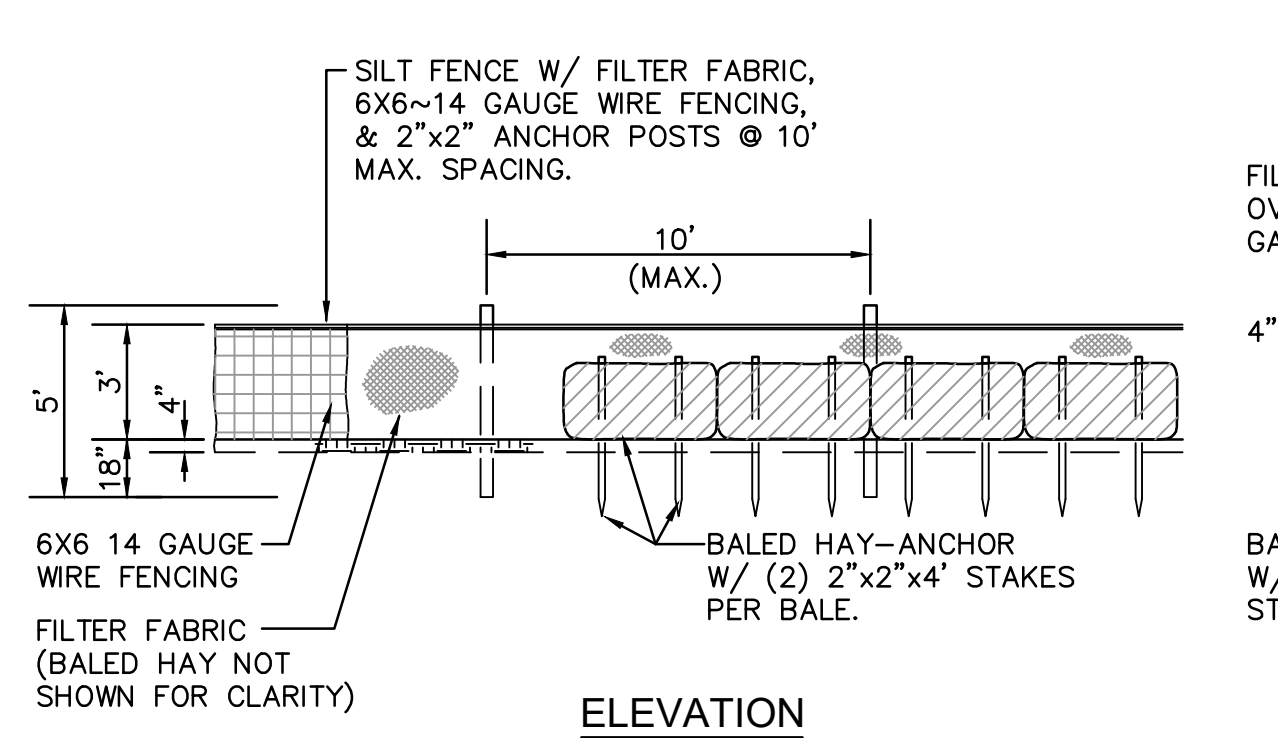
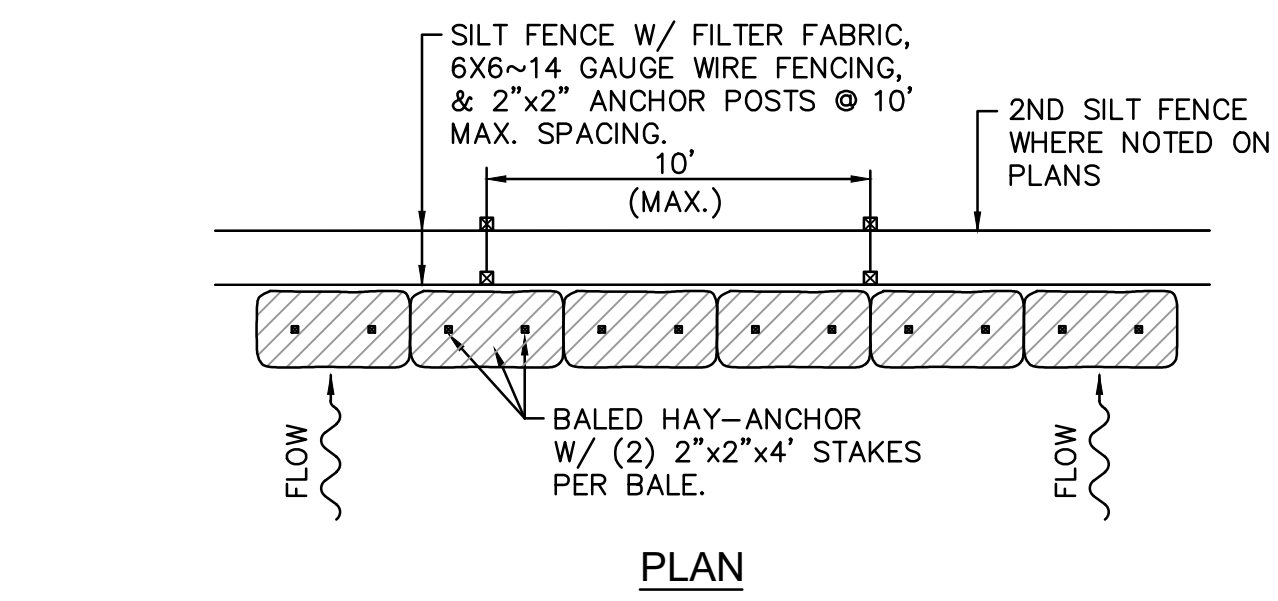
11 RIP-RAP DETAIL
N.T.S.



- NOTE:
1. INLET BOTTOM 12" LOWER THAN PIPE INVERT SHOWN ON PLAN.
 2. SEE F.D.O.T. STANDARD INDEX DRAWING NO.'S 200 & 201 FOR ADDITIONAL DETAILS.

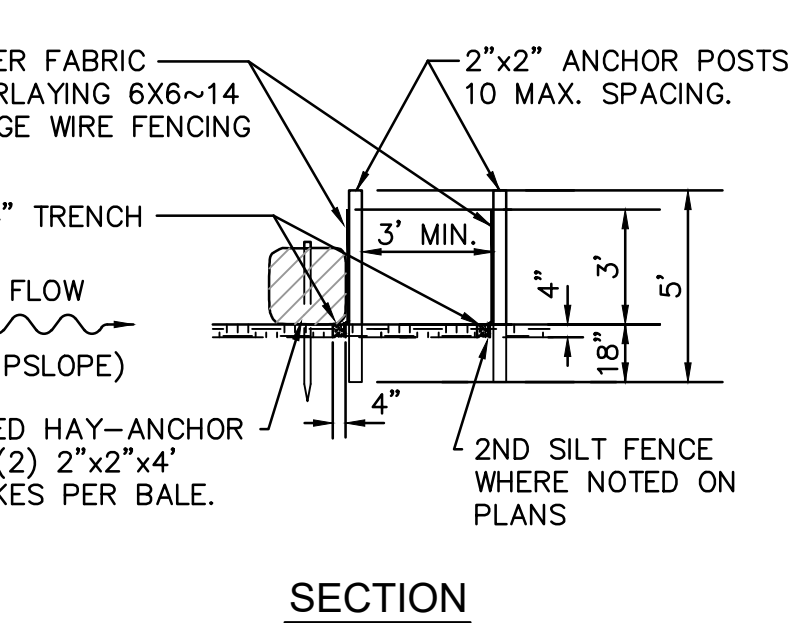


8 STORM MANHOLE
SCALE: 1/2" = 1'-0"



9 TYPICAL EROSION CONTROL DETAILS
SCALE: 1" = 5'-0"

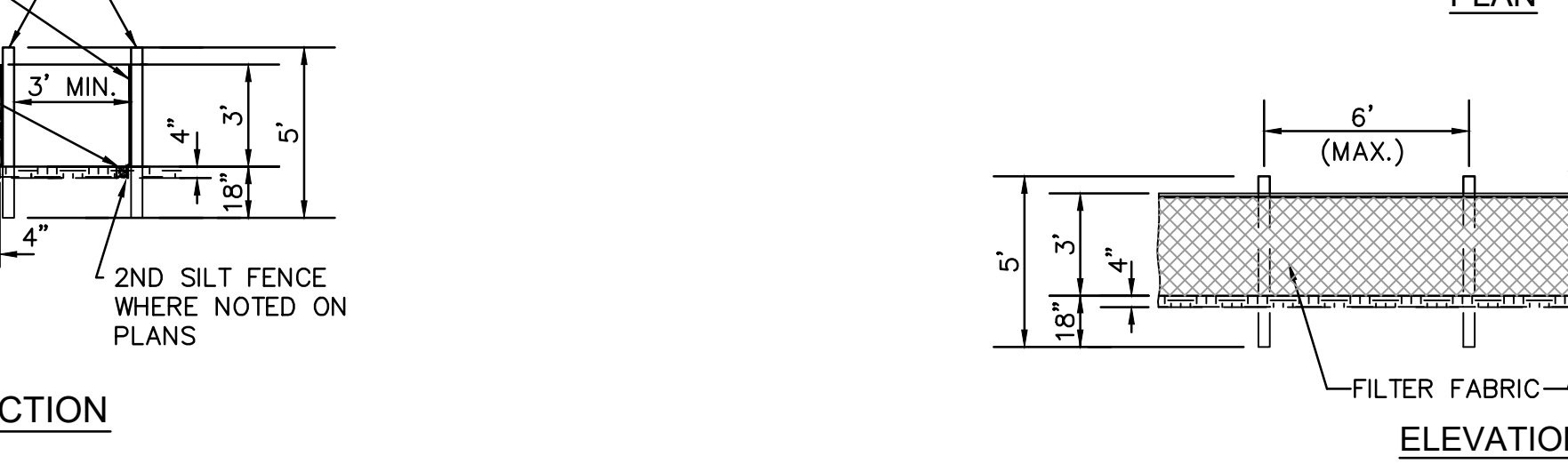
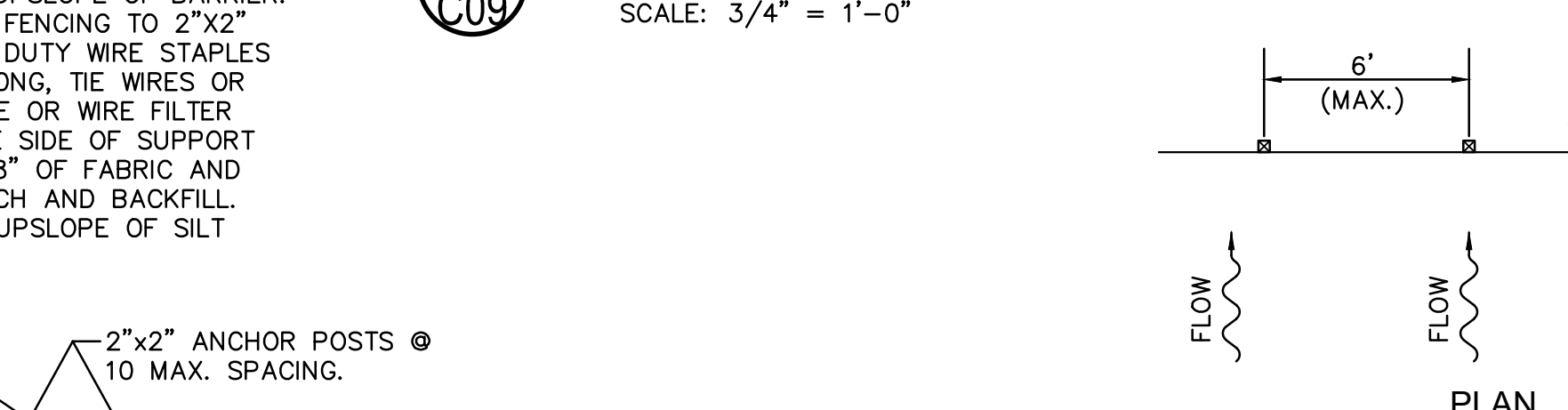
CONSTRUCTION NOTE:
 INSTALL 2"x2" WOOD POSTS ALONG BARRIER LINE (10' MAX. SPACING, 18" MIN. EMBEDMENT). EXCAVATE 4" WIDE BY 4" DEEP TRENCH ALONG POST LINE, UPSLOPE OF BARRIER. FASTEN WIRE MESH FENCING TO 2"x2" POSTS WITH HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG. THE WIRES OR HOG RINGS. STAPLE WIRE FILTER FABRIC TO UPSLOPE SIDE OF SUPPORT FENCING. EXTEND 8" OF FABRIC AND FENCING INTO TRENCH AND BACKFILL. STAKE BALED HAY UPSLOPE OF SILT FENCE ASSEMBLY.



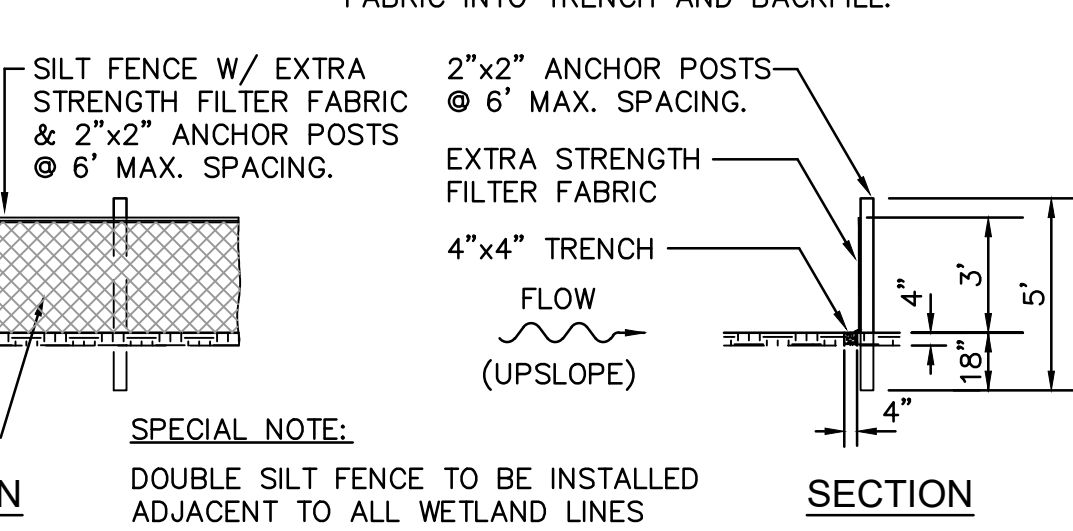
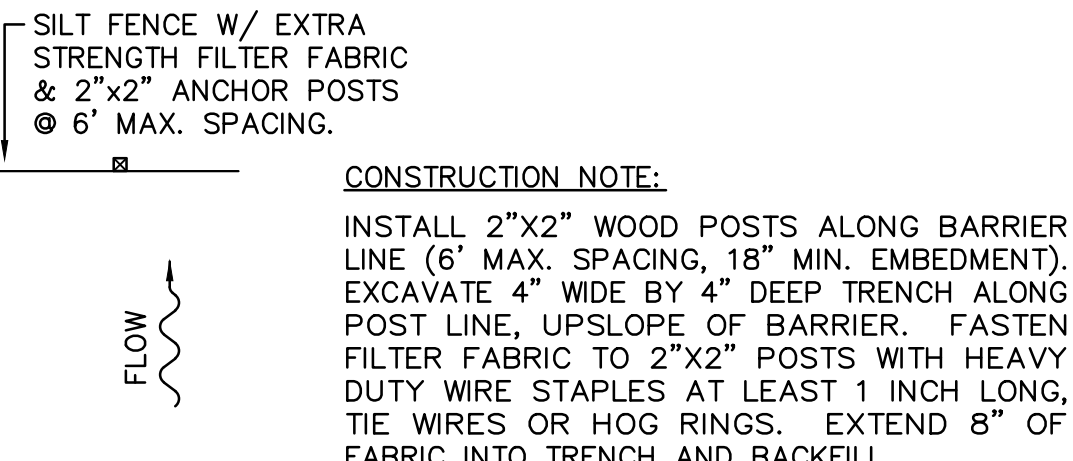
9 TYPICAL EROSION CONTROL DETAILS
SCALE: 1" = 5'-0"

* SLOPE: TO C PIPE FOR PIPES 18" AND SMALLER
2:1 FOR PIPES 24" AND LARGER.

7 MITERED END SECTION
SCALE: 3/4" = 1'-0"



10 SILT FENCE DETAIL
SCALE: 1" = 5'-0"



10 SILT FENCE DETAIL
SCALE: 1" = 5'-0"

JENKINS ENGINEERING, INC.
 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
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JECIVIL.COM
 C.O.A. NO. 9927 - L.B. NO. 8081

THE FIKES COMPANIES
 CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA
 DETAILS III

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
 DATE: 2-20-2023
 DESIGNED: BF/MZ
 DRAWN: BF

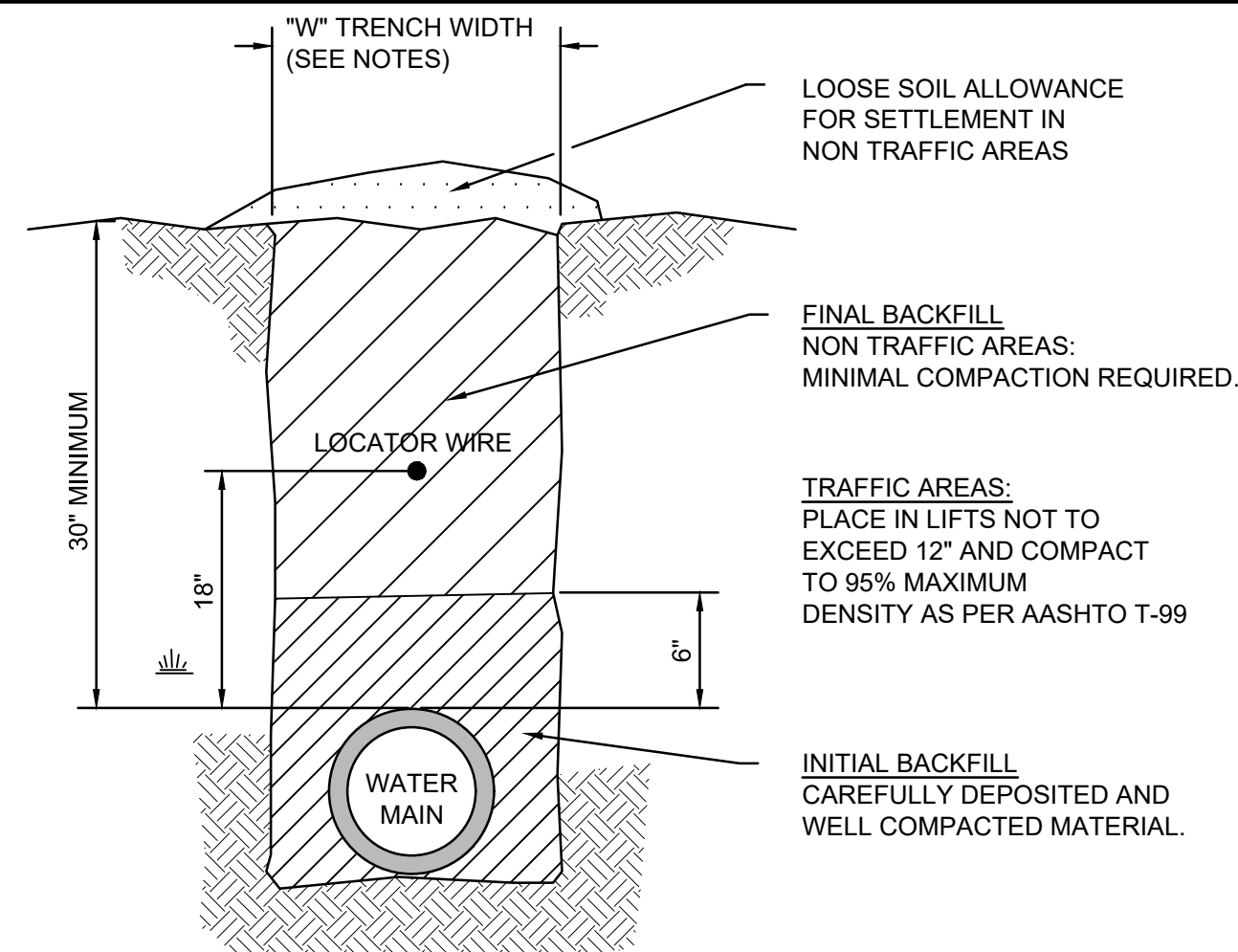
BAR IS ONE INCH ON ORIGINAL
 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
10 OF 13

SHEET NUMBER
C09

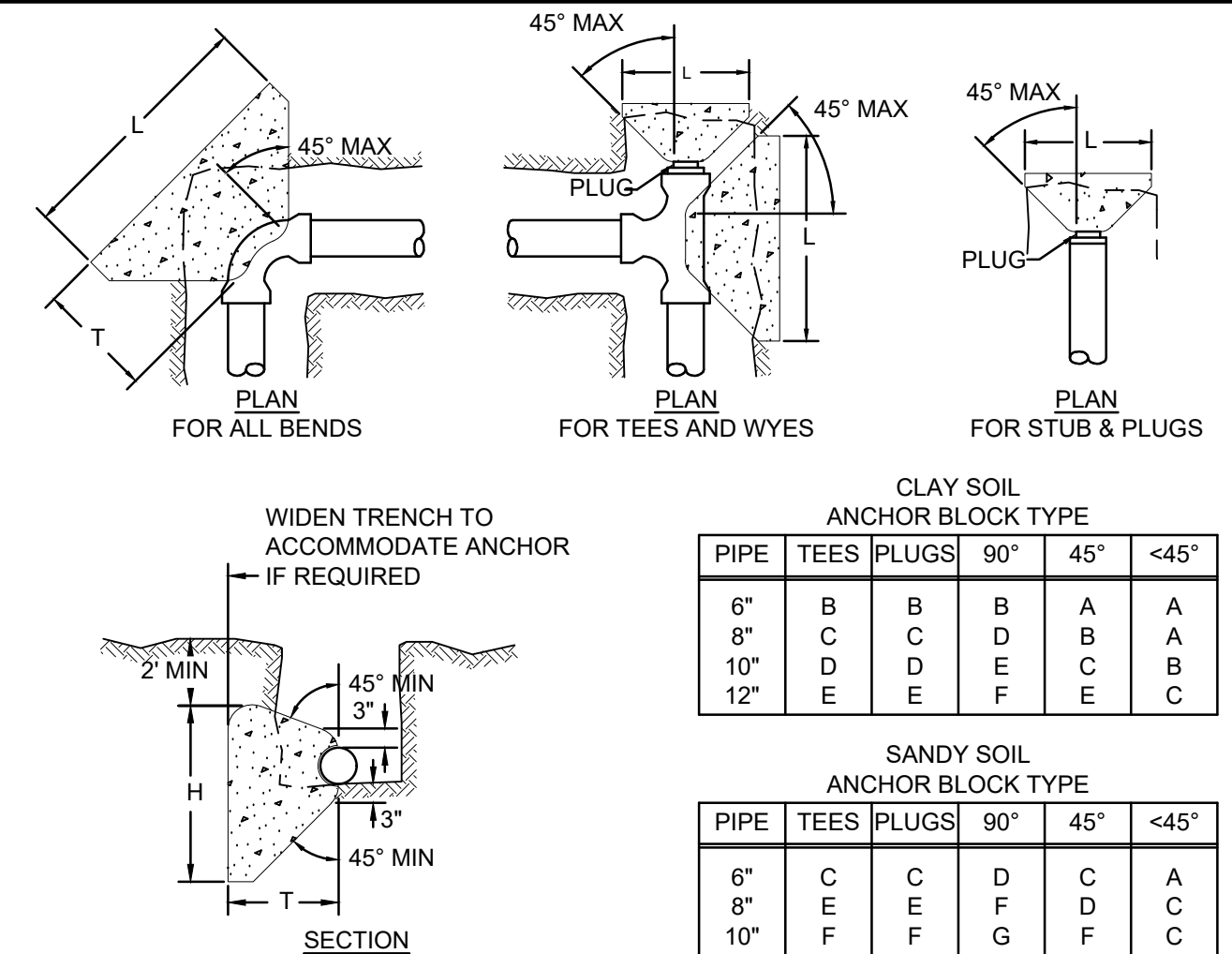
NOT RELEASED FOR CONSTRUCTION

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 Last Printed by: Brian Farmer Plot Style: --- Plot Scale: 1:3.56 Plot Date: 5/17/2023 3:46 PM Plotter used: None

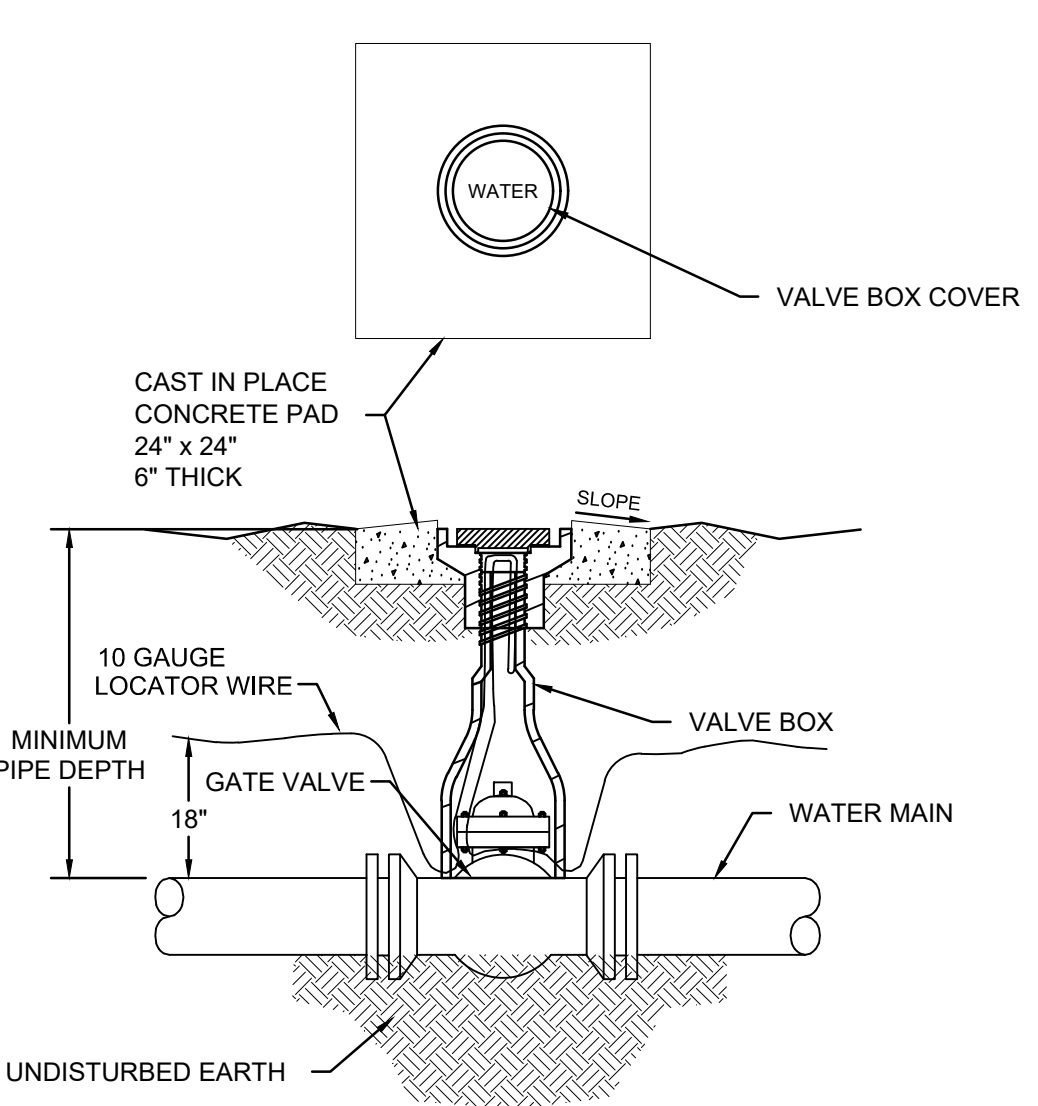


- NOTES:**
- WIDTH OF THE TRENCH AT ANY POINT BELOW 6" ABOVE THE TOP OF THE PIPE SHALL BE SUFFICIENT TO PROVIDE ADEQUATE ROOM FOR JOINING THE PIPE AND FILLING AND COMPACTING THE SIDE FILLS. HOWEVER, IN NO CASE SHALL THIS WIDTH EXCEED THE OUTSIDE PIPE DIAMETER PLUS 2'-0".
 - TRENCH EXCAVATION FROM 6" ABOVE THE TOP OF THE PIPE MAY BE AS WIDE AS NECESSARY EXCEPT AS RESTRICTED BY THE LIMITS OF THE RIGHT-OF-WAY OR EASEMENT AND AS REQUIRED TO PROTECT EXISTING STRUCTURES AND CONDUITS.
 - INITIAL BACKFILL** - GENERALLY, MATERIAL OBTAINED FROM THE TRENCH EXCAVATION. SOIL TYPES OF HIGHLY ORGANIC SOILS OR HIGHLY PLASTIC EXPANSIVE CLAYS SHALL NOT BE USED. INITIAL BACKFILL SHALL BE COMPACTED TO UNIFORMLY DEVELOP LATERAL SOIL FORCES DURING THE BACKFILL OPERATION.
 - FINAL BACKFILL** - GENERALLY, MATERIAL OBTAINED FROM THE TRENCH EXCAVATION WITH MAXIMUM SIZE OF STONE NOT TO EXCEED SIX (6") INCHES.
 - ALL PVC PIPES SHALL HAVE AN INSULATED 10 GAUGE SOLID COPPER LOCATOR WIRE INSTALLED 18" ABOVE THE WATER MAIN.

1 TRENCH DETAIL
C10 NOT TO SCALE

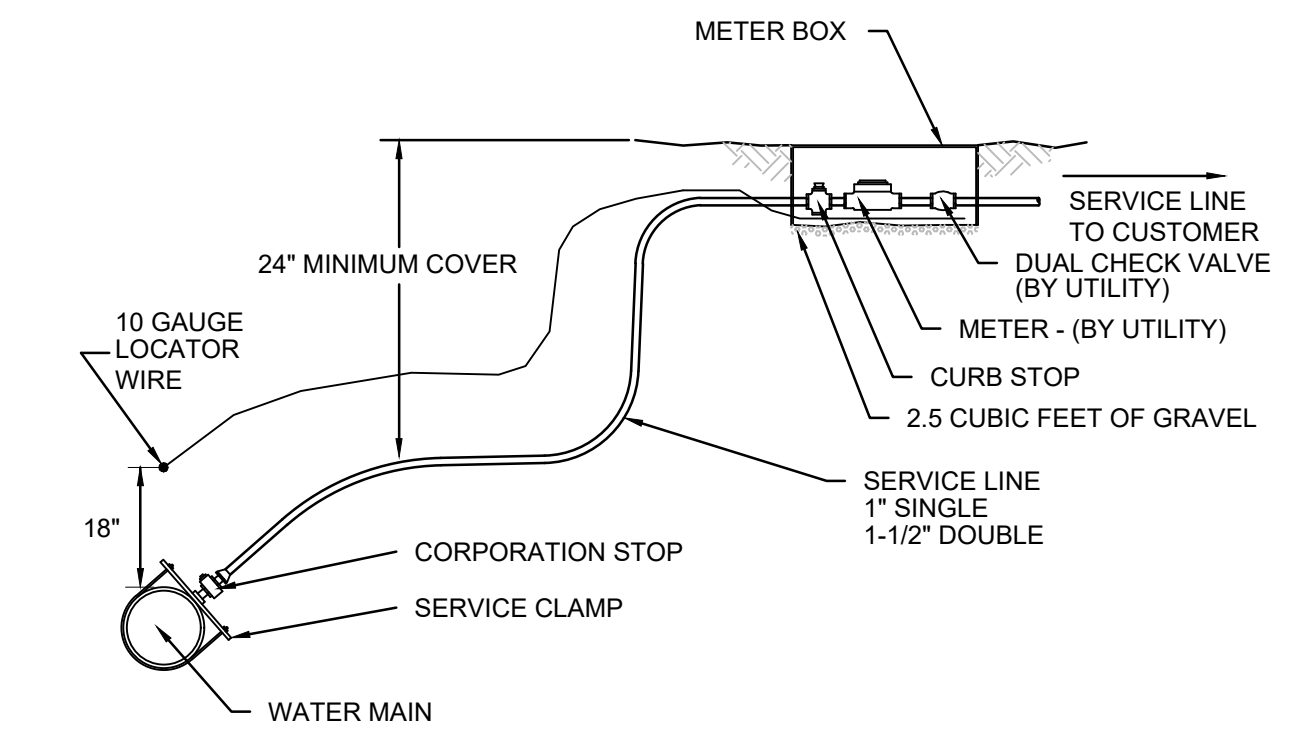


2 THRUST BLOCK DETAILS
C10 N.T.S.



- NOTES:**
- THE LOCATOR WIRE SHALL BE LOOPED THRU VALVE BOX TO EXTEND 10" ABOVE GROUND LINE.
 - ALL PADS SHALL BE POURED IN PLACE.

3 GATE VALVE AND VALVE BOX DETAIL
C10 N.T.S.



- NOTES:**
- BASE SERVICE CONNECTION SHALL INCLUDE CURB STOP AND METER BOX LOCATED APPROXIMATELY 1' INSIDE OF THE RIGHT-OF-WAY LINE.
 - CUSTOMER SERVICE LINE BY OTHERS.
 - SERVICE CLAMPS ARE NOT REQUIRED WHEN THREADED TAPS ARE MADE TO DUCTILE IRON OR STEEL WATER MAINS.
 - INSTALL LOCATOR WIRE FROM WATER MAIN TO METER BOX.
 - WATER SERVICE SHALL BE CLEARLY AND ACCURATELY MARKED ON THE CURB LINE. (IF APPLICABLE)
 - THE SERVICE LINE SHALL HAVE BRONZE COMPRESSION TYPE FITTINGS.
 - SERVICE LINE UNDER PAVEMENT SHALL BE CASED WITH APPROPRIATE SIZE TO SERVICE LINE & EXTENDED 2' BEYOND EDGE OF PAVEMENT. (BOTH SIDES) P.V.C CASING MAY BE USED, EXCEPT ON D.O.T. R.O.W.

4 WATER SERVICE
C10 NOT TO SCALE

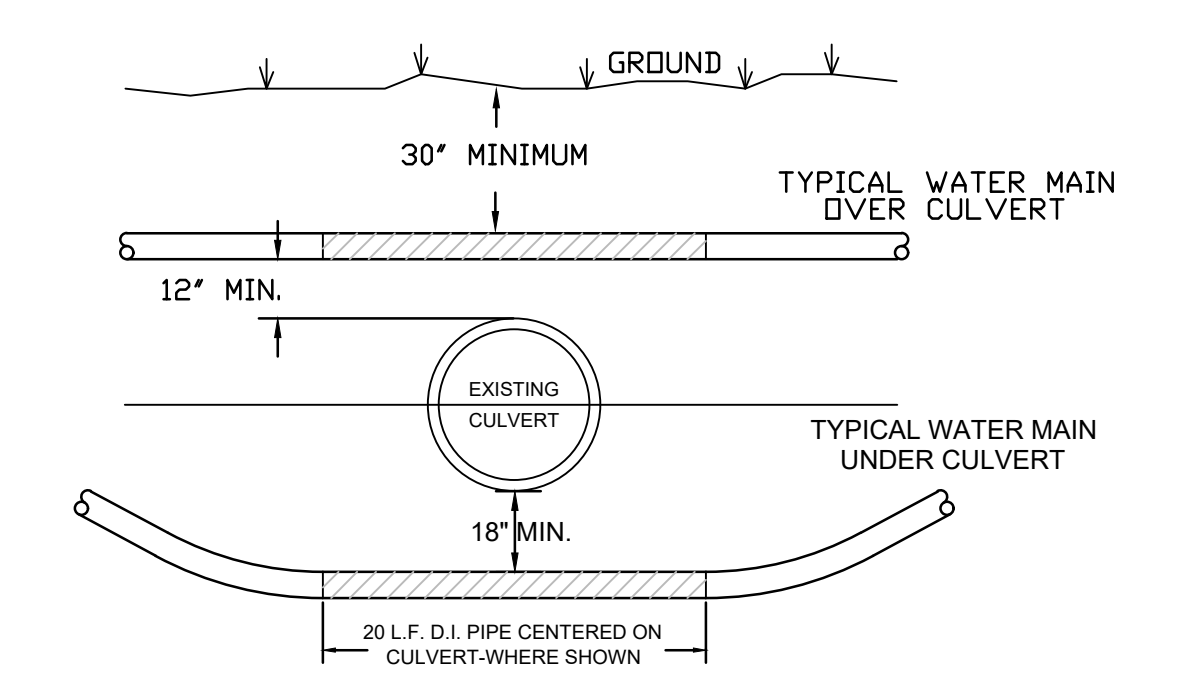
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Water Main Alternate 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Water Main Alternate 3 ft. minimum
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Water Main Alternate 6 ft. minimum
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

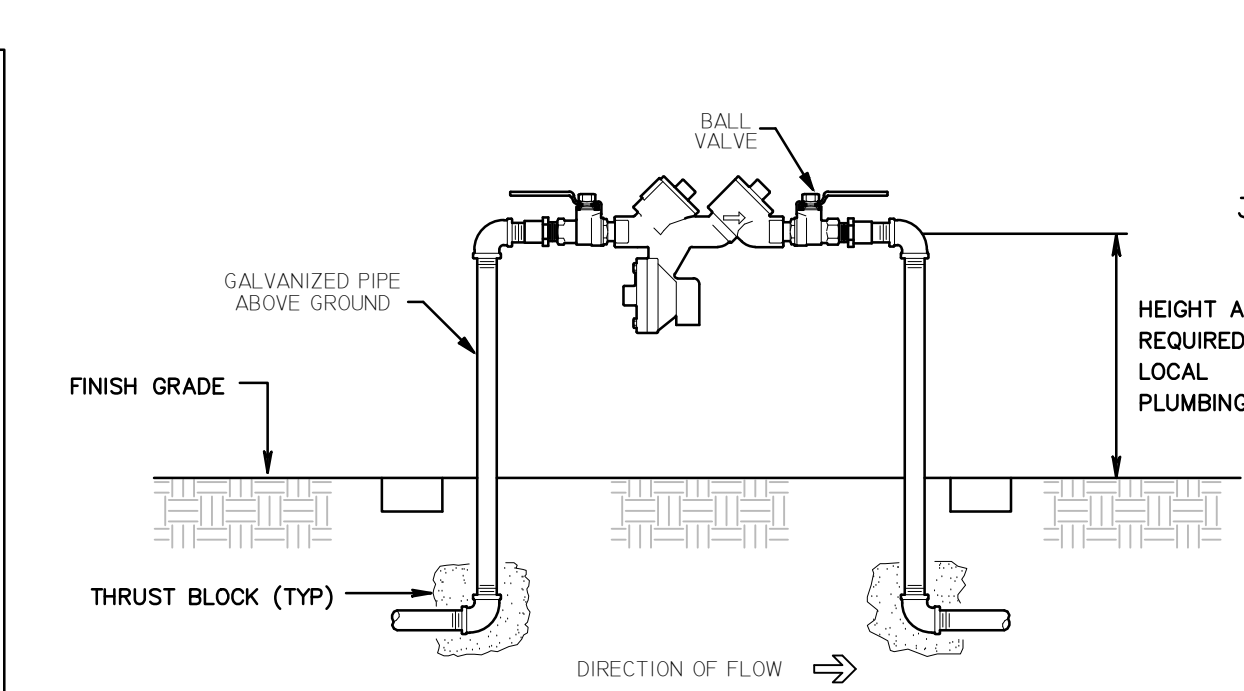
(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
 (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
 (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
 (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

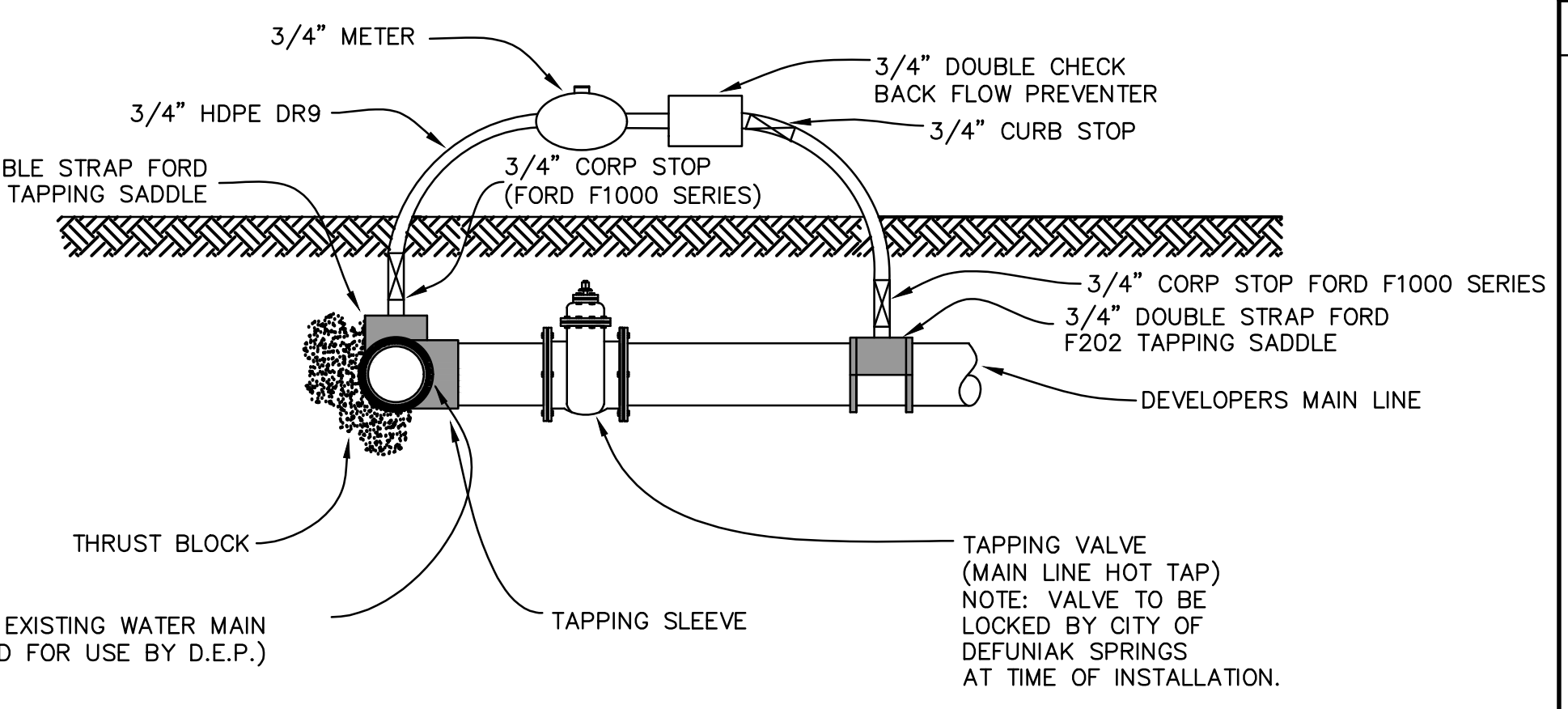
5 WATER/SEWER SEPARATION DETAIL
C10 NOT TO SCALE



6 CULVERT CROSSING DETAIL
C10 NOT TO SCALE

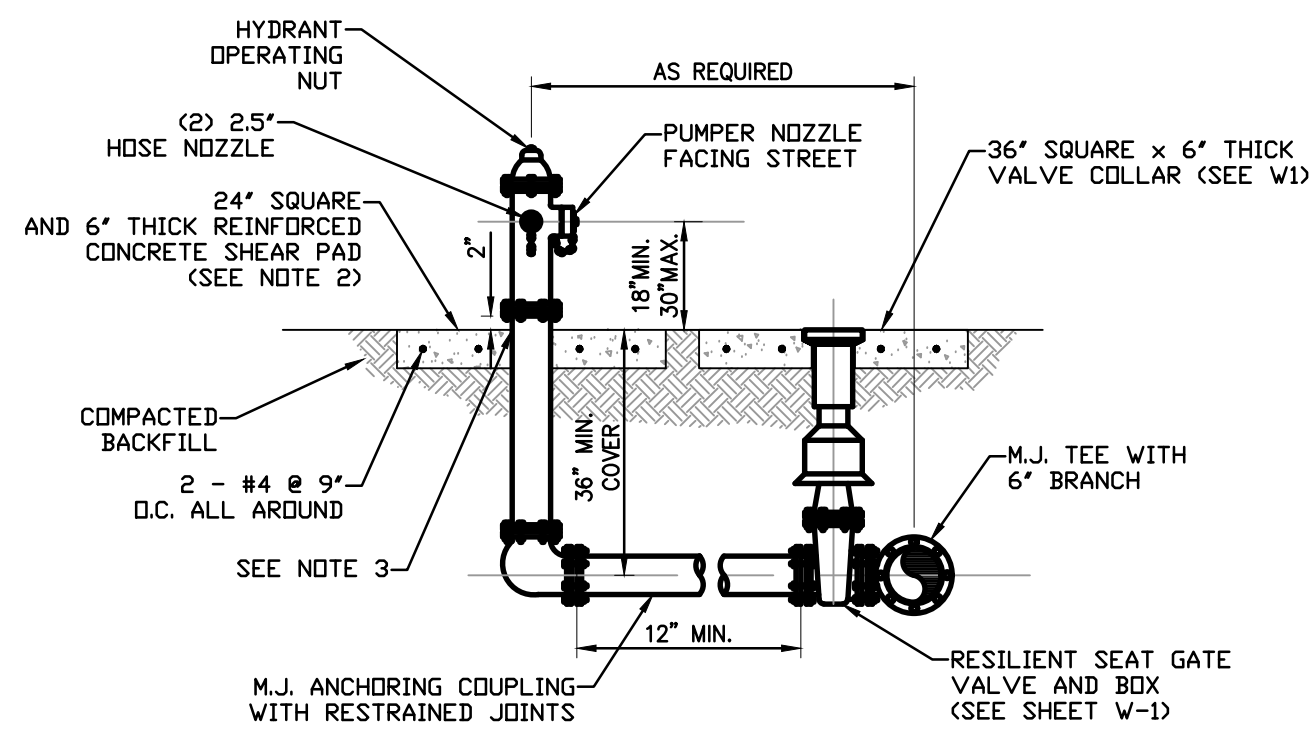


7 BACKFLOW PREVENTER DETAIL
C10 NOT TO SCALE



- NOTES:**
- CONTRACTOR SHALL MAKE APPLICATION TO CITY OF DEFUNIAK SPRINGS FOR HOT-TAP AND 3/4" JUMPER. WATER USAGE WILL BE BILLED AT THE EXISTING RATES.
 - CONTRACTOR SHALL FURNISH AND INSTALL THE 3/4" JUMPER PURSUANT TO THE CITY OF DEFUNIAK SPRINGS DETAIL, AT THE SAME TIME THE HOT-TAP CONNECTION IS MADE.
 - HOT-TAP AND JUMPER SHALL BE SCHEDULED THROUGH THE CITY OF DEFUNIAK SPRINGS ENGINEERING INSPECTOR.
 - ALL FILLINGS AND FLUSHINGS SHALL BE VIA THE 3/4" JUMPER ASSEMBLY.
 - THE TAPPING VALVE CONNECTING THE NEWLY CONSTRUCTED LINE TO CITY OF DEFUNIAK SPRINGS SYSTEM SHALL REMAIN CLOSED AT ALL TIMES. THIS VALVE SHALL ONLY BE OPENED BY A CITY OF DEFUNIAK SPRINGS REPRESENTATIVE AND ONLY AFTER CLEARANCE TO PLACE THE SYSTEM INTO SERVICE HAS BEEN RECEIVED FROM F.D.E.P.
- IN ORDER TO RECEIVE CLEARANCE FROM F.D.E.P. THE FOLLOWING PROCEDURE MUST BE COMPLETED: CONTRACTOR MUST PERFORM PRESSURE TEST, BACTERIOLOGICAL TEST AND ARRANGE FOR A FINAL INSPECTION. PRESSURE TEST MUST BE WITNESSED BY A DEFUNIAK SPRINGS INSPECTOR. UPON PASSING THE PRESSURE TEST AND FINAL INSPECTION, THE ENGINEER FOR THE PROJECT MUST SUBMIT THE BACTERIOLOGICAL TEST RESULTS, AS-BUILT DRAWINGS AND CERTIFICATION OF COMPLETION FORMS TO CITY OF DEFUNIAK SPRINGS. DEFUNIAK SPRINGS WILL THEN SIGN THE COMPLETION FORMS AND FORWARD THEM TO F.D.E.P. WITH COPIES OF THE BACTERIOLOGICAL TEST RESULTS. UPON THEIR REVIEW AND APPROVAL, F.D.E.P. WILL SEND CITY OF DEFUNIAK SPRINGS A LETTER GRANTING PERMISSION FOR THE SYSTEM TO BE PLACED INTO OPERATION.
- CONTRACTOR MAY DISCONNECT THE CURB STOP FROM THE DOUBLE CHECK BACK FLOW PREVENTOR AND UTILIZE THE CONNECTION TO CONDUCT PRESSURE TEST.

8 BYPASS JUMPER DETAIL FOR WATER SERVICE DURING CONSTRUCTION
C10 NOT TO SCALE



9 5-1/4\"/> C10 NOT TO SCALE

REFERENCE LATEST CITY OF DEFUNIAK SPRINGS TECHNICAL DEVELOPMENT GUIDE MANUAL FOR UTILITY SPECIFICATIONS.

JENKINS ENGINEERING, INC.
 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450

JEICVIL.COM

C.O.A. NO. 9927 - L.B. NO. 8081

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 57642
 MATTHEW H. ZINKE, P.E.
 FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION
1		
2		
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THE FIKES COMPANIES

CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA

UTILITY DETAILS I

JOB: 22-72
 DATE: 2-20-2023
 DESIGNED: BF/MZ
 DRAWN: BF

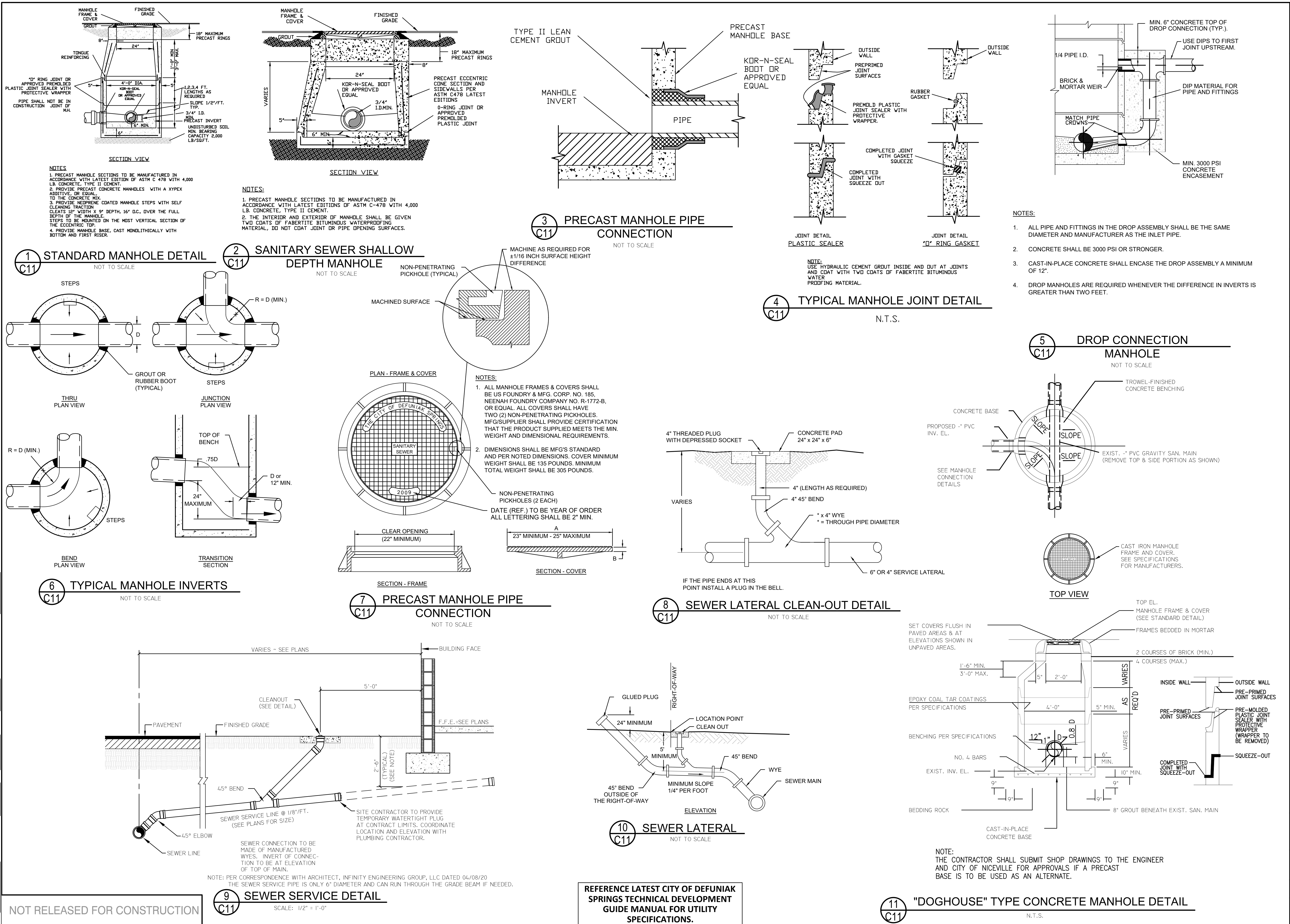
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 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
11 OF 13

SHEET NUMBER
C10

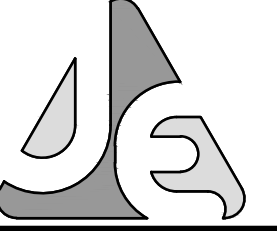
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Last plotted by: Brian Farmer Plot Style: --- Plot Scale: 1:3.56 Plot Date: 5/17/2023 3:46 PM Plotter Used: None



NOT RELEASED FOR CONSTRUCTION

REFERENCE LATEST CITY OF DEFUNIAK SPRINGS TECHNICAL DEVELOPMENT GUIDE MANUAL FOR UTILITY SPECIFICATIONS.



JENKINS ENGINEERING, INC.

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NICEVILLE, FLORIDA 32546
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FAX: (850) 837-2450

JEICVIL.COM
C.O.A. NO. 9927 - L.B. NO. 8081

MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57842

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 57642

REV	DATE	DESCRIPTION
1		
2		
3		
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THE FIKES COMPANIES

CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA

UTILITY DETAILS II
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
DATE: 2-20-2023
DESIGNED: BF/MZ
DRAWN: BF

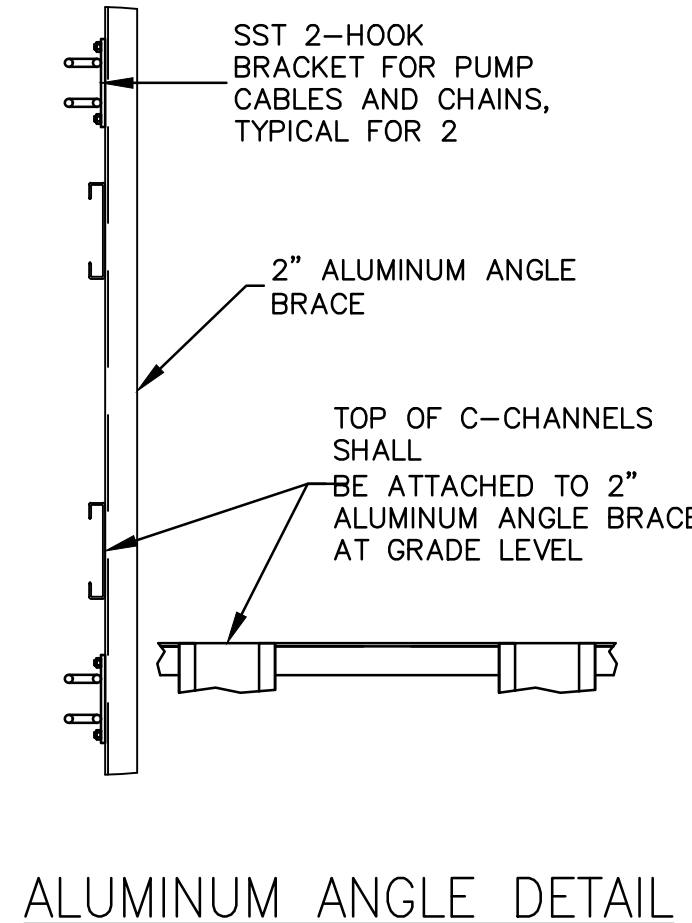
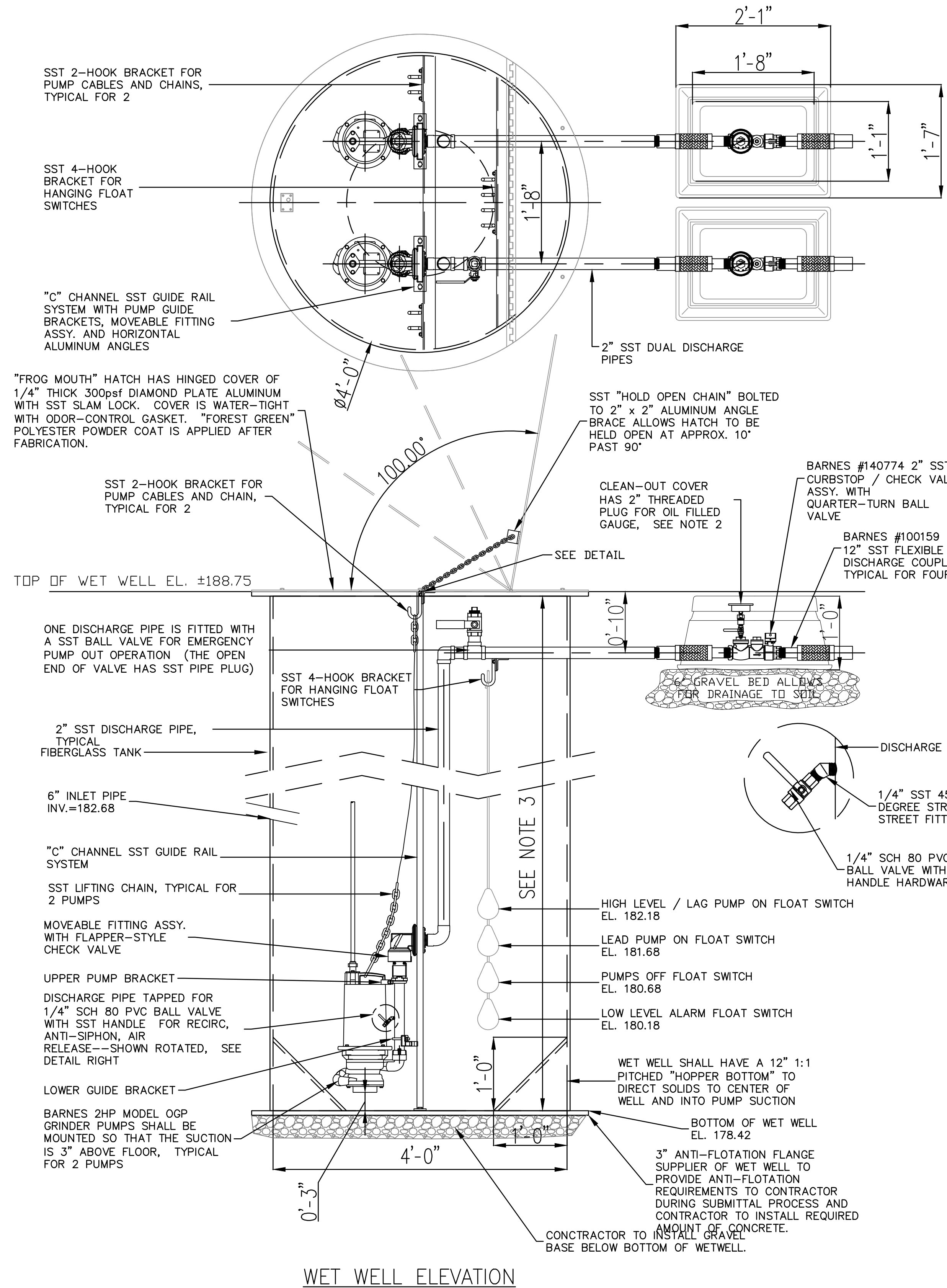
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IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
12 OF 13

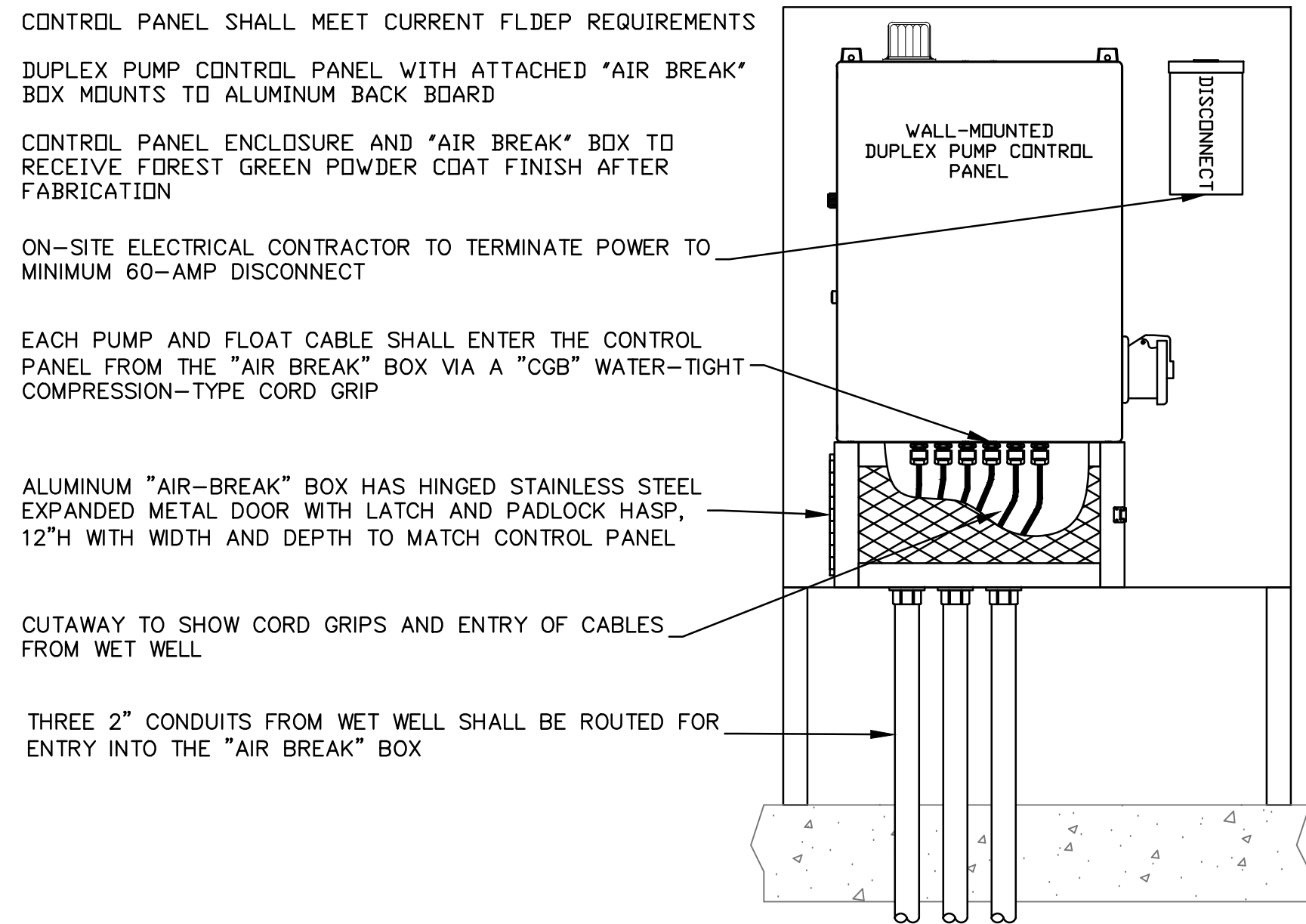
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C11

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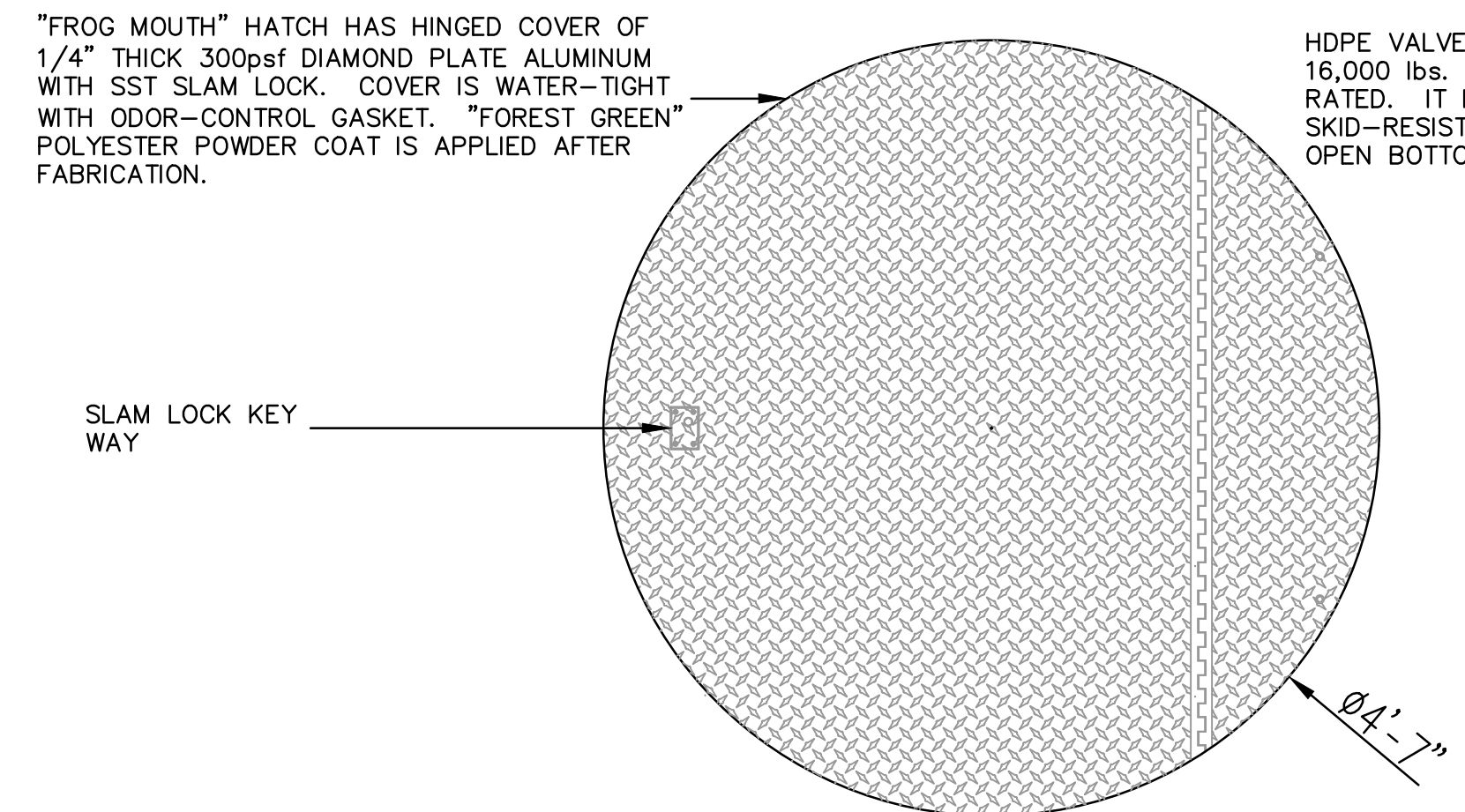
NOT RELEASED FOR CONSTRUCTION



ALUMINUM ANGLE DETAIL



CONTROL PANEL DETAIL



LIFT STATION DATA	
DESIGNATION	CEFCO DFS I-10 & 331
PUMP MODEL	2.0 HP BARNES "OGP" GRINDER
IMPELLER	12 VANE VORTEX
VOLTAGE	208, 3 PHASE
H.P.	2.0
R.P.M.	3450
DELIVERY, GPM	29.5
TDH, FEET	108
FORCE MAIN	2" Ø
MAXIMUM SOLID SIZE	N/A
WET WELL DIAMETER	48"
WET WELL TOP ELEV.	ELEV. = ±188.75
WET WELL BOTTOM ELEV.	ELEV. = 178.42
INFLOW	6" @ ELEV= 182.68

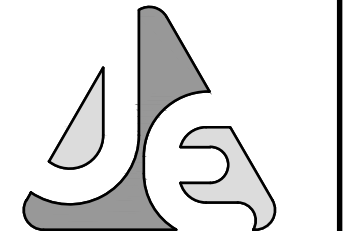
- NOTES:
- THE PUMPS MUST HAVE A 5-YEAR 100% REPAIR PARTS AND LABOR WARRANTY AS PROVIDED BY THE PUMP MANUFACTURER
 - PRESSURE GAUGE SHALL BE SIZED TO READ NO MORE THAN 1-1/2 TIMES THE MAXIMUM PRESSURE PUMP PROVIDES AT DEAD HEAD.
 - DEPTH OF WET WELL TO BE DETERMINED BASED ON ACTUAL JOB SITE REQUIREMENTS
 - CONTROL PANEL SHALL MEET CURRENT FLDEP REQUIREMENTS
 - CONTROL PANEL ENCLOSURE AND "AIR BREAK" BOX TO RECEIVE FOREST GREEN POWDER COAT FINISH AFTER FABRICATION
 - ON-SITE ELECTRICAL CONTRACTOR TO TERMINATE POWER TO MINIMUM 60-AMP DISCONNECT
 - THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR CONDUIT AND FITTINGS, VALVES, AND ACCESSORIES. IN ADDITION, SHOP DRAWINGS AND/OR CATALOG PERFORMANCE (INCLUDING INSTALLATION DRAWINGS, WIRING DIAGRAMS, OPERATION AND MAINTENANCE INSTRUCTIONS) FOR PUMP STATION, AND CERTIFIED PUMP PERFORMANCE CURVES SHALL BE SUBMITTED. THE CONTRACTOR SHALL NOT SHIP NOR INSTALL EQUIPMENT PRIOR TO RECEIPT OF SHOP DRAWINGS STAMPED "FOR JOB USE" OR "APPROVED FOR CONSTRUCTION" FROM THE ENGINEER.
 - THE LIFT STATION AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - START-UP, INITIAL OPERATION: THE CONTRACTOR AND PUMP SUPPLIER SHALL START UP AND PROVIDE INITIAL TESTING BEFORE OPERATION OF THE COMPLETED PUMPING STATION. THE INITIAL OPERATION SHALL INCLUDE FILLING (USING POTABLE WATER, IF NECESSARY) OF THE WET WELL AS NECESSARY, TO CYCLE AND TEST THE PUMPS AND CONTROLS, INCLUDING SIMULATED PUMP FAILURE AND HIGH WATER ALARM, PUMP ALTERNATION, AND OTHER FEATURES OF THE SPECIFIED EQUIPMENT. TESTING OF THE STATION SHALL BE COORDINATED WITH THE ENGINEER, PUMP SUPPLIER, AND THE CITY OF CRESTVIEW.



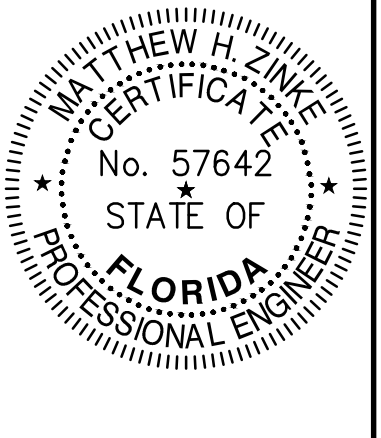
Butch Branton - Municipal Sales

TITLE: CEFCO DFS I-10 & 331	
CREATED BY: DS	APPROVED BY: BB
SCALE: NTS	REVISION:
DATE:	SHEET: 1 OF 1

1 PRIVATE LIFT STATION
 C12 N.T.S.



JENKINS ENGINEERING, INC.
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 JECIVIL.COM
 C.O.A. NO. 9927 - L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
 FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION
1	5/17/2023	REVISED PER CITY, FOOT AND IN/1000 COMMENTS
2		
3		
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THE FIKES COMPANIES
 CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA
 LIFT STATION
 NOT VALID UNLESS BEARING ENGINEERS ORIGINAL SIGNATURE

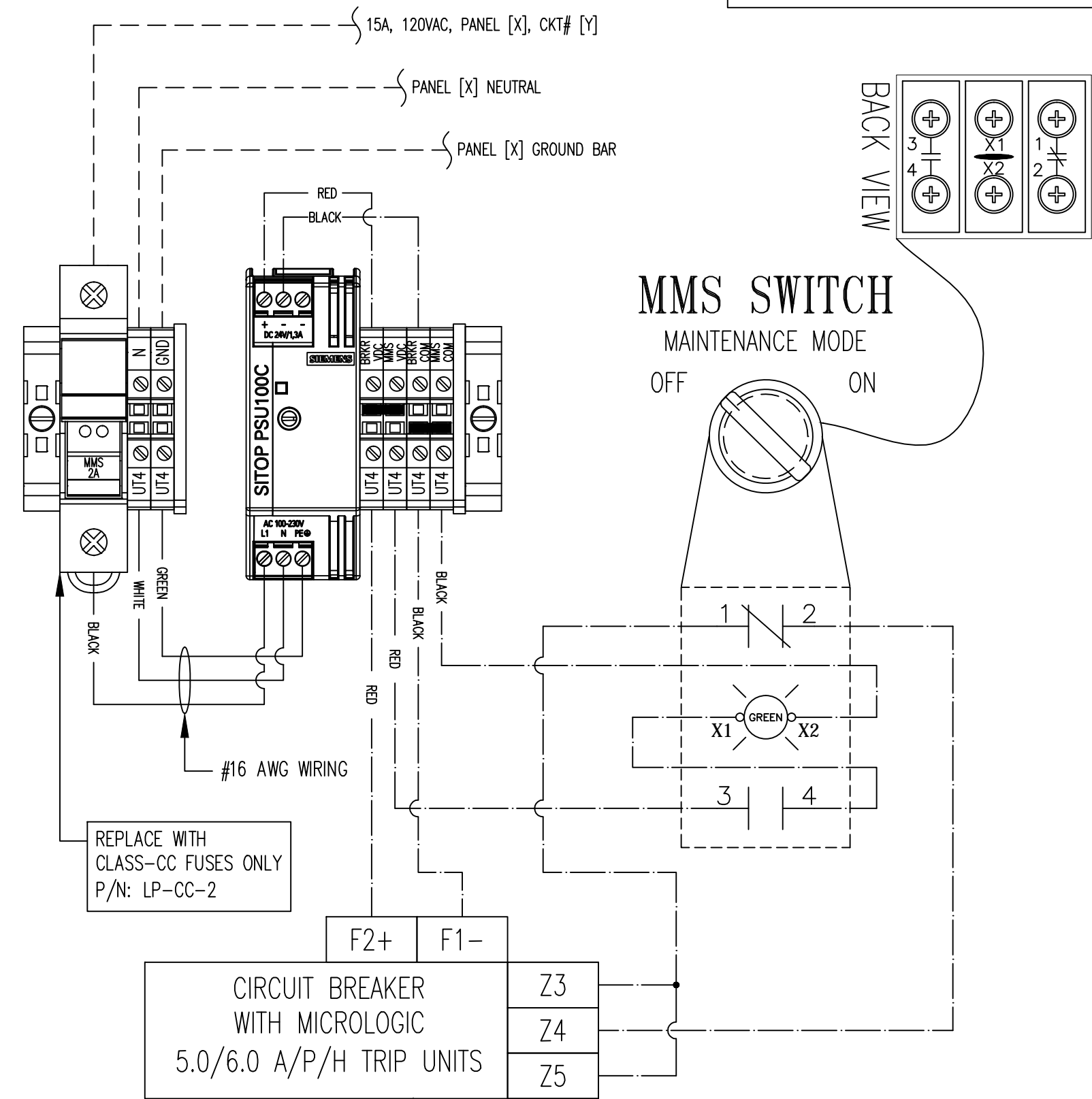
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 DATE: 2-20-2023
 DESIGNED: BF/MZ
 DRAWN: BF
 BAR IS ONE INCH ON ORIGINAL
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 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY
 DRAWING NUMBER
 13 OF 13
 SHEET NUMBER
 C12

MMS SWITCH WIRING DETAIL

P OR R FRAME BREAKERS (TYPICAL, NTS)

WIRE LEGEND:

DASHED	FIELD
SOLID	16AWG
DASHED-DOT	18AWG

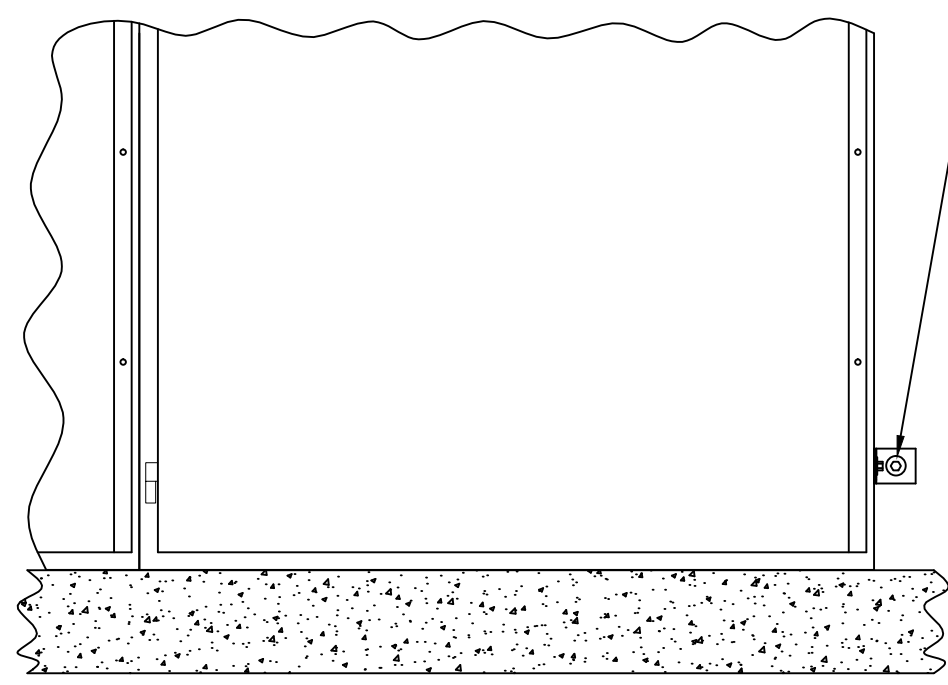


TYPICAL ELECTRONIC TRIP UNIT IN PANEL MDP MAIN BREAKER

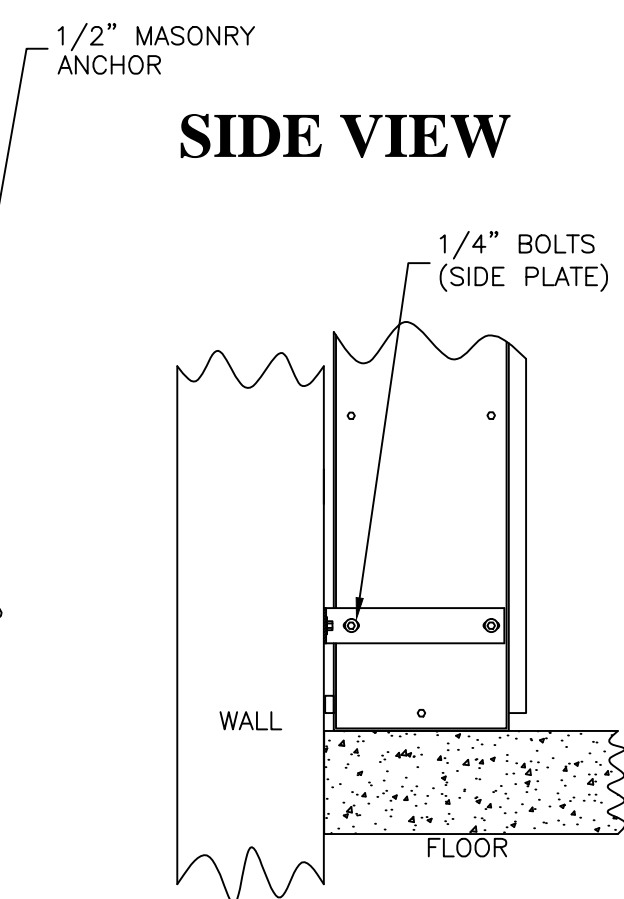
MMS PARTS LIST

PART NUMBER	DESCRIPTION	MANUFACTURER	QTY
LP-CC-2	2A, CLASS CC FUSE (USE CLASS CC FUSES ONLY)	BUSMAN	1
304880	0.5-30A FUSE BLOCK, 16-4 AWG	PHOENIX CONTACT	1
304102	TUT TYPE TERMINAL BLOCKS, 20A, 26-10 AWG	PHOENIX CONTACT	6
304108	TERMINAL COVER FOR TUT TERMINAL BLOCKS	PHOENIX CONTACT	2
80886	END CLAMP	PHOENIX CONTACT	2
6EP1331-5BA10	24V DC POWER SUPPLY, 30W, 1.3A, 120VAC INPUT	SIEMENS	1
ZB4BK1233	ILLUMINATED SELECTOR SWITCH, 2 POSITION, 22MM	SQUARE-D	1
ZB4E2102	22MM MOUNTING BLOCK, N.C. CONTACT	SQUARE-D	1
ZB4E1	24-120V AC/DC LIGHTING MODULE	SQUARE-D	1
ZB4E101	N.O. CONTACT AND-ON	SQUARE-D	1
PLCLO	LOOKOUT LID, CLEAR, LOCKABLE	BAIRD	1

FRONT VIEW



SIDE VIEW



GALVANIZED STEEL MOUNTING BRACKET (1/8")

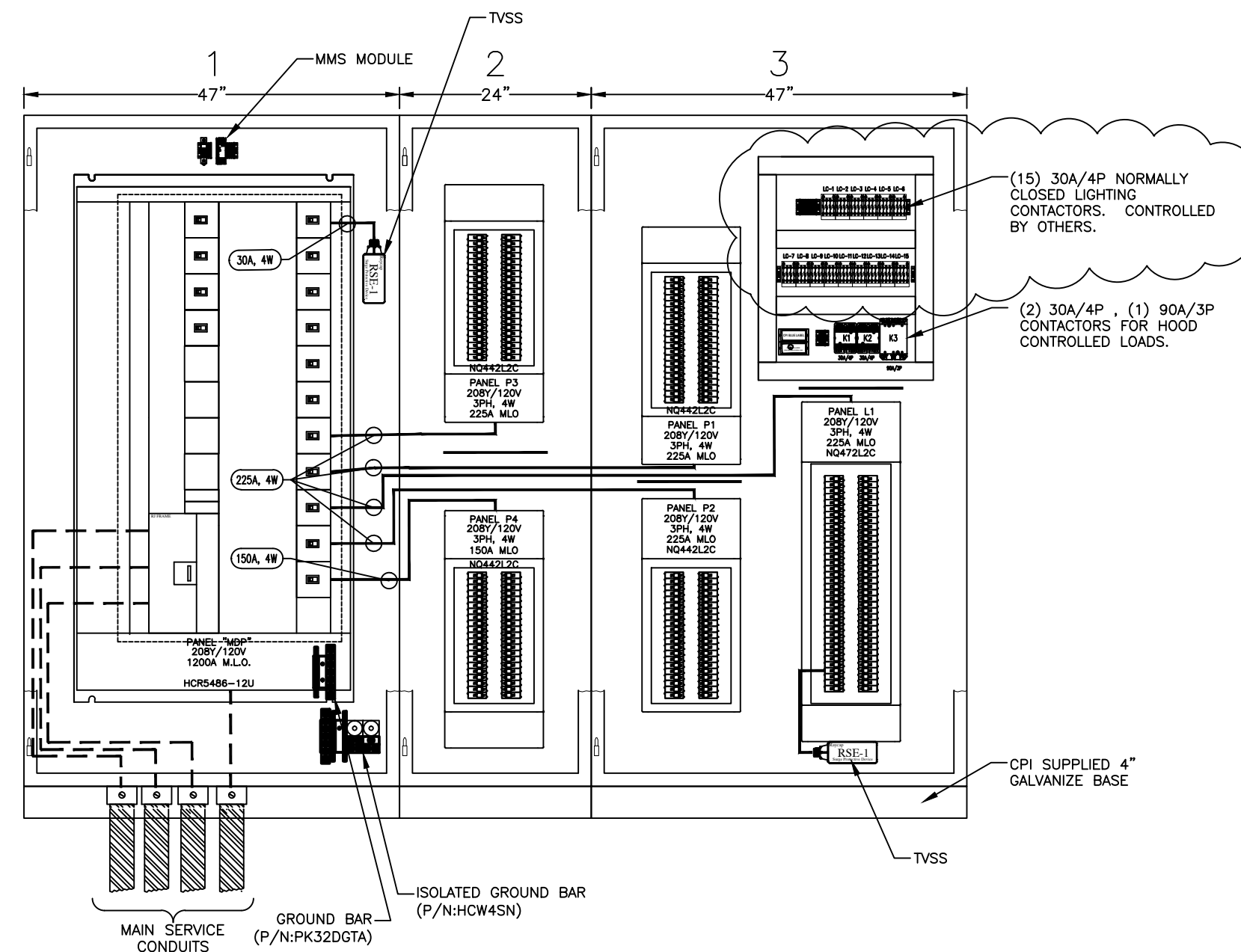
NOTE:

USE (1) MOUNTING BRACKETS FOR EACH SIDE OF UNITIZED SWITCHGEAR SYSTEM. SYSTEMS CONSISTING OF MORE THAN 3 CABINETS MAY REQUIRE 1 OR MORE BRACKETS AFFIXED TO THE TOP OF THE CABINET GROUP.

CPI SYSTEM INSTALLATION

TYPICAL

INTERIOR VIEW

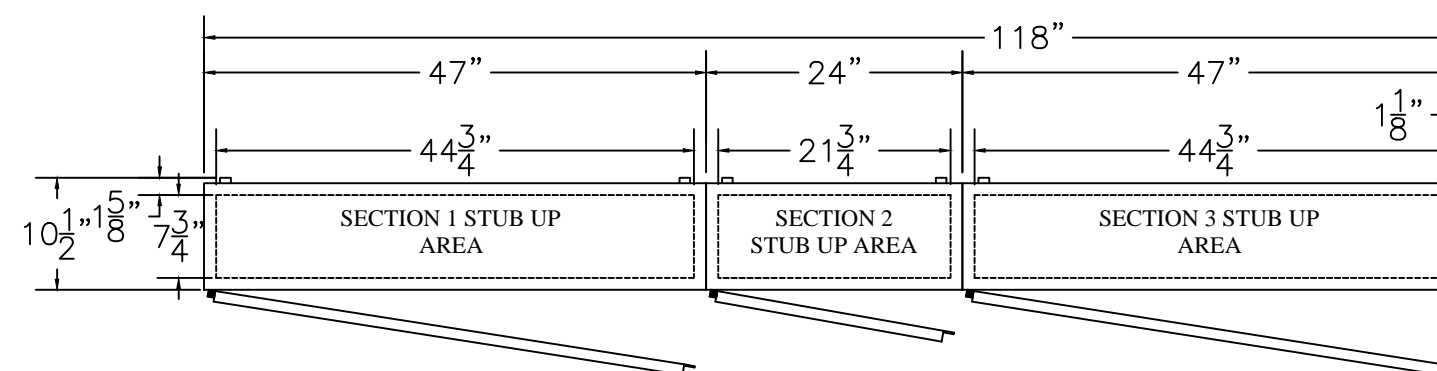
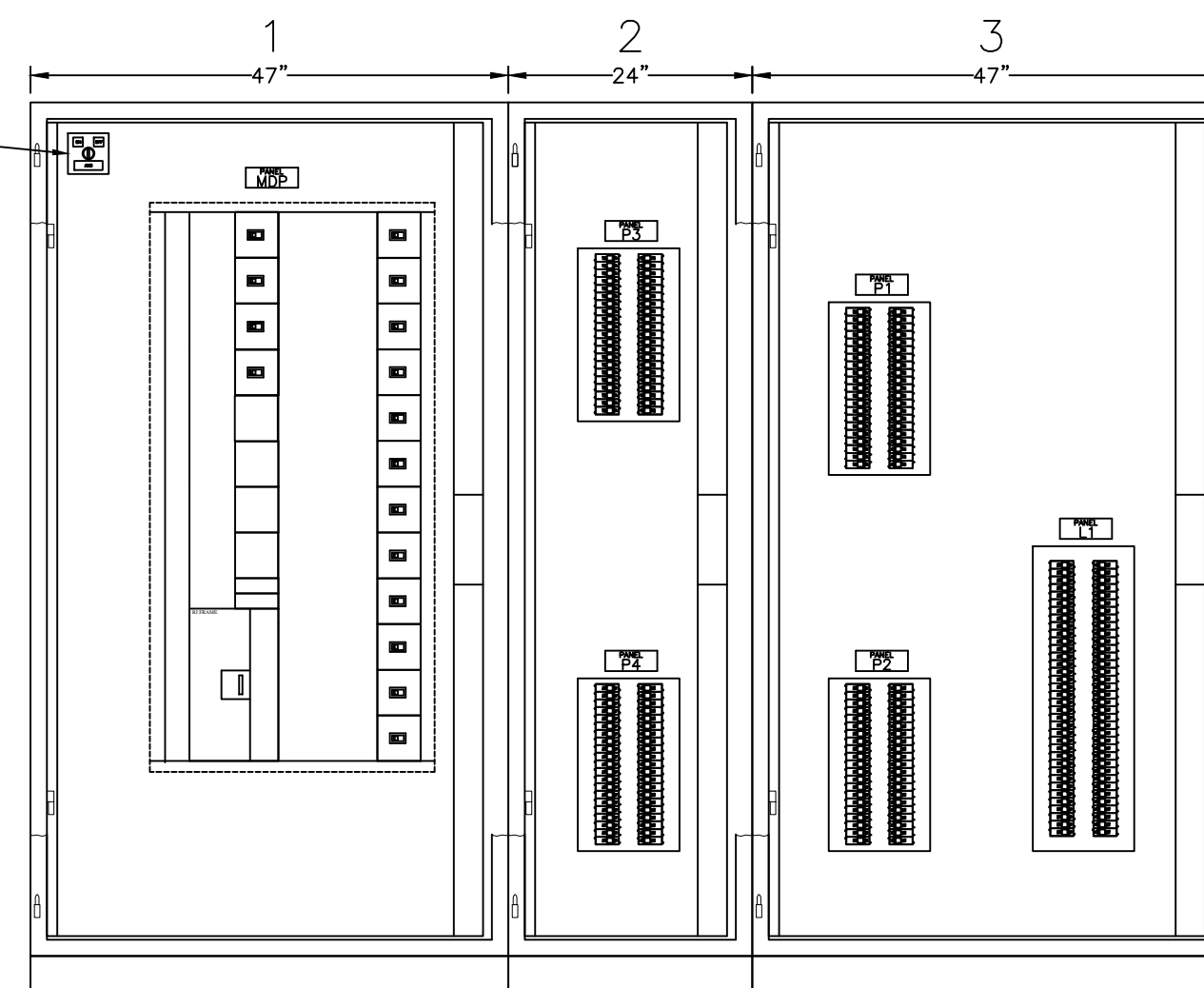


FROM UTILITY

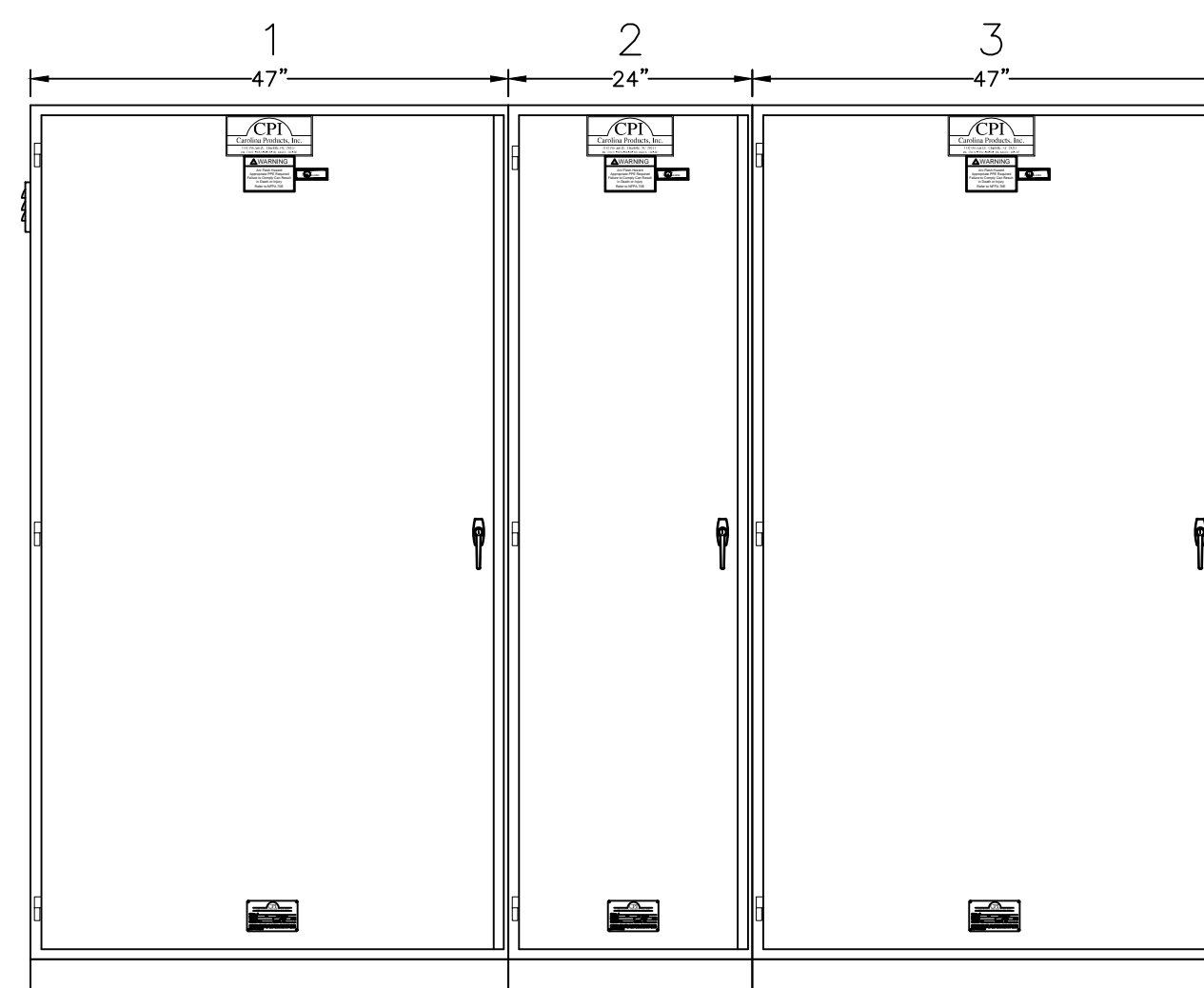
(4) SETS OF 4-#600 KCMIL AL, 1-#4/0 KCMIL CU IG AND 1-#4/0 KCMIL CU EG EACH IN 4" CONDUIT

ENERGY REDUCTION MAINTENANCE SWITCH - REQUIRED UNDER 2014 N.E.C. 405.11(B)(3), LOCATED ON DOOR

DEADFRONT VIEW



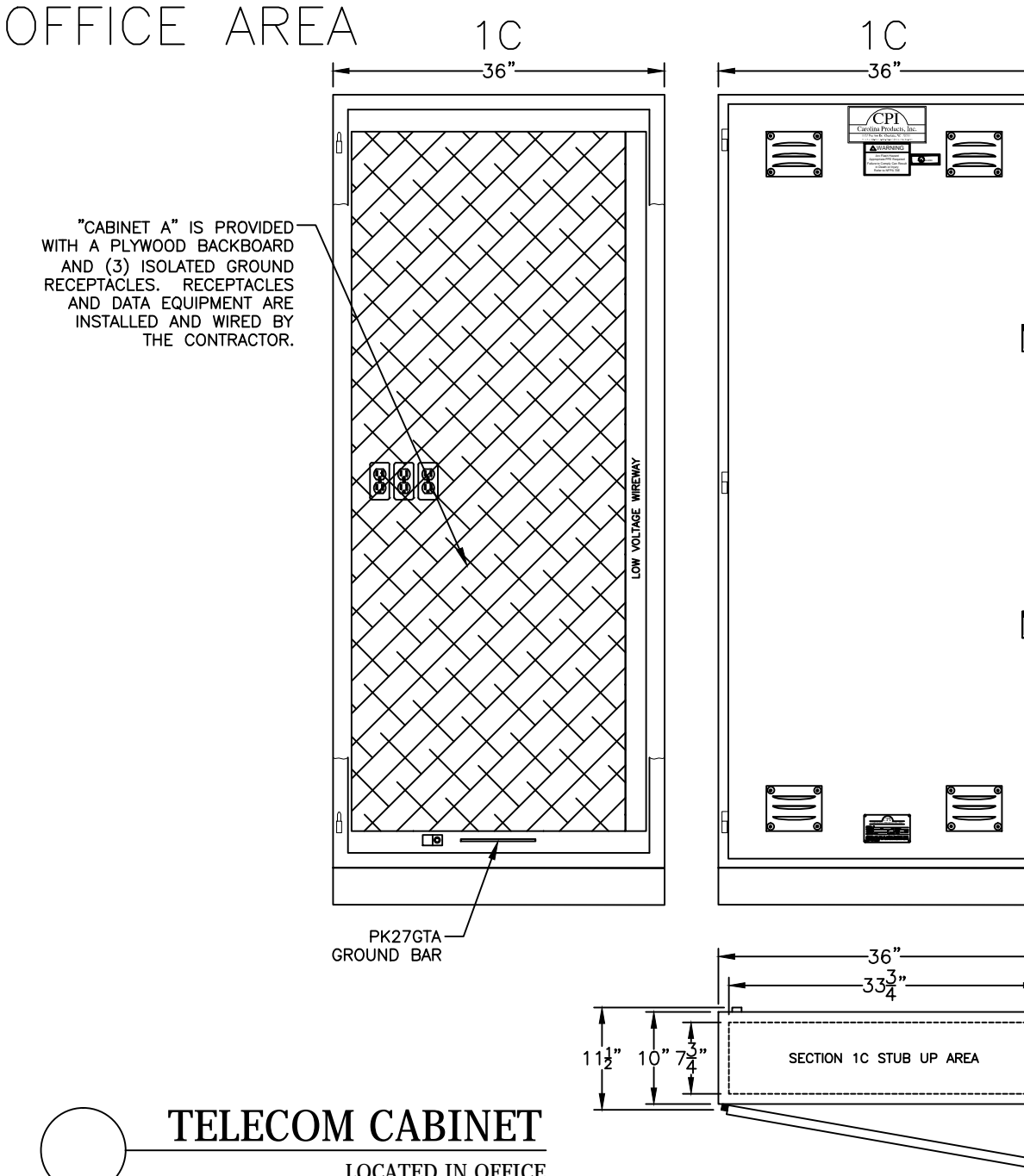
EXTERIOR VIEW



FACTORY FEEDER SCHEDULE

(AMPS, WIRE)	(# OF CONDUCTORS) SIZE
15A, 4W	(4) #14 AWG
30A, 4W	(4) #10 AWG
100A, 4W	(4) #3 AWG
150A, 4W	(4) #1/0 AWG
225A, 4W	(4) #4/0 AWG
250A, 4W	(4) #250 KCMIL
400A, 4W	2 SETS: (4) #3/0 AWG

INTERIOR OFFICE AREA



TELECOM CABINET
LOCATED IN OFFICE



CAROLINA PRODUCTS, INC.
1132 PRO AM DR.
CHARLOTTE, NC 28211
PHONE: (704)-364-9029
FAX: (704)-367-1215

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REVISIONS:

REVISION 1:

REVISION 2:

REVISION 3:

SHEET DESCRIPTION:

CPI UNITIZED SWITCHGEAR
INTERIOR/EXTERIOR VIEWS

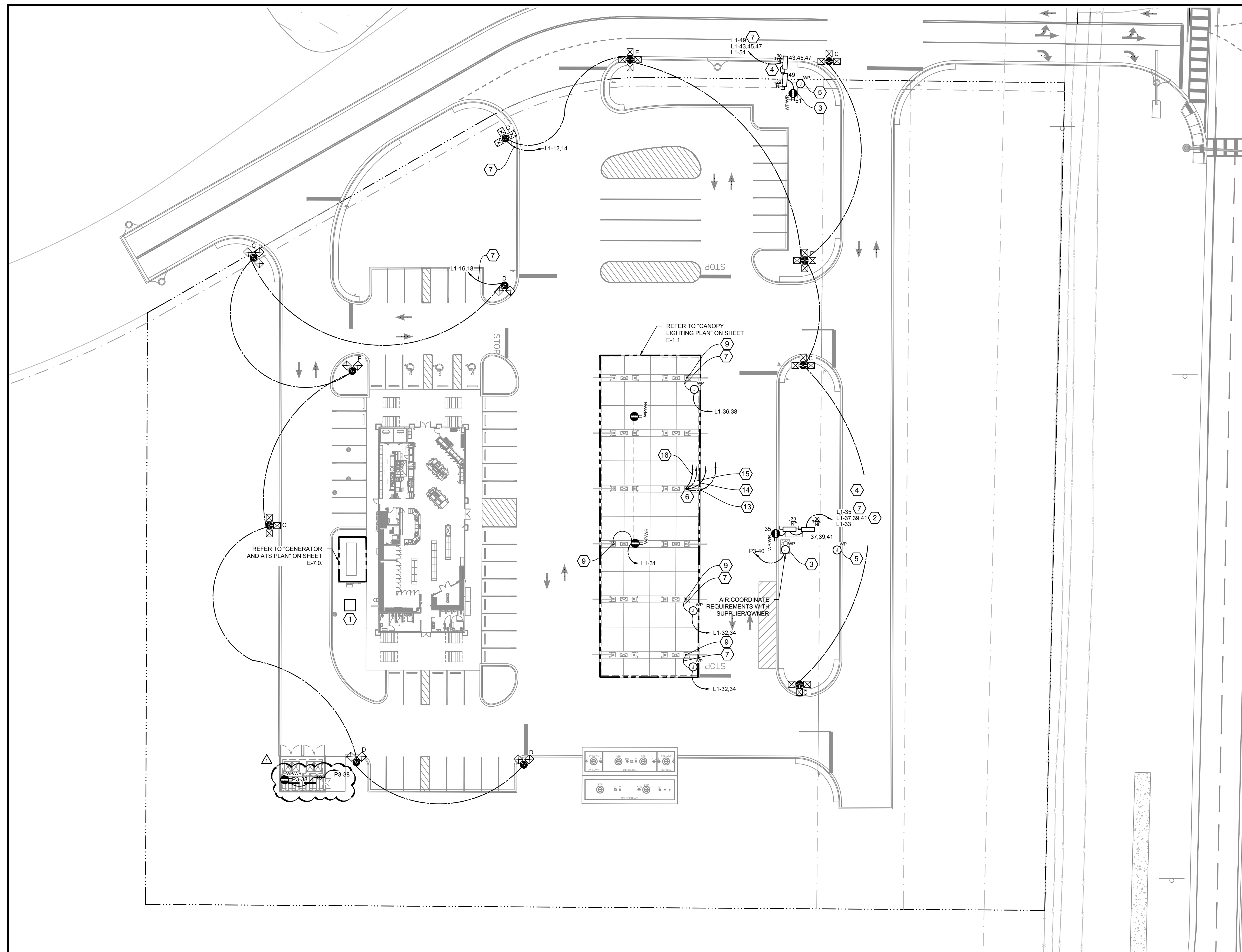
PROJECT OVERVIEW:

PROJECT NAME:
CEFCO STORE #0446
PROJECT CITY:
DEFUNIAK SPRINGS, FL

CPI PROJECT INFORMATION:

CPI PROJECT #:
29479A
DATE:
02/09/24
DRAWN BY:
EKF

SHEET: 1.0



ELECTRICAL SITE PLAN
SCALE
1" = 30'-0"

- SHEET NOTES:**
1. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXCAT POINTS OF SERVICE CONNECTION AT EXISTING SITE UTILITIES. REFER TO THE BUILDING ELECTRICAL AND PLUMBING SHEETS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES AND CIRCUITING.
 2. PROPOSED UTILITIES ARE SHOWN FOR SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY GENERAL CONTRACTOR FOR THE MOST ECONOMICAL INSTALATION.
 3. GENERAL CONTRACTOR SHALL SUPPLY ALL HOSE CONNECTIONS AND OTHER INSTALLATIONS, WHERE AIR GAP CANNOT BE ASSURED, WITH A CITY OF JURISDICTION APPROVED BACKFLOW PREVENTATIVE.
 4. ID SIGN TO INCLUDE NON-FUSED DISCONNECT.
 5. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH POWER COMPANY IN DETERMING OUTLET LOCATION.
 6. ALL ELECTRICAL CIRCUITS HAVE TO BE CLEARLY MARKED AS TO WHAT EACH CONTROLS.
 7. ELECTRICAL CONTRACTOR TO PROVIDE AN ALTERNATE PRICE FOR ALL EXTERIOR/OUTSIDE LIGHT FIXTURES. SIGNS TO BE CONTROLLED BY PHOTOCELL WITH AN OVERRIDE SWITCH.
 8. CONTRACTOR HAVE TO FURNISH A FILE SYSTEM FOR ALL EQUIPMENT AND MAINTENANCE OF EACH PIECE OF EQUIPMENT.
 9. CONNECTIONS AND PROPOSED UTILITIES ARE SHOWN WHERE INTENDED TO BE CONSTRUCTED. ANY MOVEMENT OF THESE FACILITIES SHALL BE APPROVED BY THE DISTRICT ENGINEER PRIOR TO CONSTRUCTION.
 10. CONTRACTOR TO PROVIDE ONE 3/4" CONDUIT FROM DISPENSER SPEAKER BOX TO CASHIER AREA.
 11. CANOPY LIGHTING FIXTURES TO BE OF LED TYPE. FIXTURES ARE PROVIDED AND INSTALLED BY CANOPY SUPPLIER AND CIRCUITED BY ELECTRICAL CONTRACTOR.
 12. ALL SITE LIGHTING CONDUITS TO BE SCHEDULED 80 ELECTRICAL UNDERGROUND.
 13. ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE GASOLINE DISPENSER, GASOLINE TANK VENTS, AND UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA-30A.
 14. ALL INTRINSICALLY SAFE (IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSII/ISA RP 12.6. IN ADDITION, SPECIAL IS WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS) WHERE PRACTICAL, OR PERMANENTLY ATTACHED, GROUNDED DIVIDER.
 15. UNDERGROUND STORAGE FUEL TANK LEAK MONITOR PANEL REQUIRES AN EQUIPMENT GROUND WIRE AND A BARRIER GROUND WIRE.

- KEYED NOTES:**
- 1 POWER COMPANY TRANSFORMER: INCLUDE ALL REQUIRED MATERIAL AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL POWER COMPANY PAD MOUNTED TRANSFORMER.
 - 2 ID/PRICER PORTION OF SIGN: ID/PRICER SHALL ILLUMINATE CONTINUOUSLY.
 - 3 SIGN MAINTENANCE RECEPTACLE: PROVIDE NEW WEATHER RESISTANT GFI, 20A, DUPLEX RECEPTACLE. PROVIDE METAL WHILE-IN-USE TYPE WEATHERPROOF COVER.
 - 4 MONUMENT SIGN: PROVIDE A WEATHERPROOF LOCAL DISCONNECTING MEANS IF ONE IS NOT INCLUDED WITH SIGN PACKAGE DELIVERED TO SITE.
 - 5 SIGN DATA CABLE: PROVIDE 1" CONDUIT W/ ID SIGN DATA CABLE. ROUTE TO POS EQUIPMENT IN C-STORE. COORDINATE W/ SIGN MANUFACTURER FOR REQUIREMENTS AND EXACT LOCATION.
 - 6 TOP OF CANOPY LOW VOLTAGE WIRING: ALL TOP OF CANOPY LOW VOLTAGE CONDUCTORS SHALL BE IN CONDUIT. PROVIDE COMPLETE CONDUIT SYSTEMS TO SUPPORT LOW VOLTAGE SYSTEM REQUIREMENTS ON ARCHITECTURAL PLANS.
 - 7 CONTROL CIRCUIT FOR NIGHT OPERATION: RUN THIS CIRCUIT VIA LIGHTING CONTACTOR IN UNITIZED GEAR. REFER TO OUTDOOR LIGHTING SCHEMATIC DETAIL #3 ON SHEET E5.0 FOR ADDITIONAL INFORMATION. FLORIDA ENERGY CODE LIGHTING SETBACK REQUIREMENTS PER C405.2.6.3. EXCLUDED TO COMPLY WITH FLORIDA STATUTE 812.173
 - 8 TOP OF CANOPY EQUIPMENT AND DEVICES: COORDINATE EXACT LOCATION WITH CANOPY MANUFACTURER PRIOR TO START OF WORK.
 - 9 SEAL-OFF FITTING: PROVIDE SEAL OFF FITTING FOR EACH CONDUIT WITHIN STEEL COLUMN AT HANDHOLE. REFER TO DETAIL 2 ON SHEET E5.0.
 - 10 TELEPHONE UTILITY SERVICE CONDUITS: PROVIDE (2) 4" W NYLON PULL STRING FOR TELEPHONE SERVICE. ROUTE MINIMUM 30" BELOW GRADE FROM TELEPHONE SERVICE POINT AT EDGE OF PROPERTY LINE TO TELEPHONE BACKBOARD (TBB). STUB UP 6" ON EACH END AND PROVIDE TEMPORARY CAP. ROUTE CONDUIT BENDS IN LONG SWEEPS. DO NOT USE 90° ELBOWS. COORDINATE WITH TELEPHONE COMPANY FIELD REPRESENTATIVE FOR SERVICE REQUIREMENTS, EXACT ROUTING, AND LOCATION OF SERVICE POINT.
 - 11 TELEPHONE BACKBOARD: REFER TO POWER PLAN FOR EXACT LOCATION. REFER TO DETAIL #1 ON SHEET E5.2.
 - 12 FUEL SYSTEM EMERGENCY FUEL SHUT OFF PUSHBUTTON STATION(EFSO): REFER TO EFSO SCHEMATIC DETAIL 4 ON SHEET E5.0 FOR CONNECTIONS. REFER TO DETAIL 6 ON SHEET E5.0 FOR ADDITIONAL DETAILS. REFER TO TANK ELECTRICAL PLANS FOR EFSO PUSHBUTTON LOCATIONS.
 - 13 SPARE CANOPY CONDUITS: PROVIDE (2) 1" CONDUITS FROM TOP OF CANOPY TO IT RACK LOCATION IN C-STORE.
 - 14 FUEL CANOPY CCTV CONDUIT: PROVIDE A 1" CONDUIT FROM FUEL CANOPY TO VICINITY OF IT RACK AT C-STORE.
 - 15 FUEL CANOPY SOUND SYSTEM CONDUIT: PROVIDE A 1" CONDUIT FROM FUEL CANOPY TO VICINITY OF IT RACK AT C-STORE.
 - 16 FUEL CANOPY SATELLITE DISH CONDUIT: PROVIDE A 1" CONDUIT FROM FUEL CANOPY FOR SATELLITE DISH.

SITE LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING HEIGHT	ARRANGEMENT	LAMP	VOLTAGE	TOTAL WATTAGE
C	COMMERCIAL MEDIUM THREE HEAD @90 DEGREE AREA LIGHT, 28L, TYPE FT, 5K CCT, CONCRETE POLE	LSI INDUSTRIES	MRL-LED-65-SIL-FT-50-70CRI-T90	25'	3 @ 90 DEGREES	LED	208V	1554W
D	COMMERCIAL MEDIUM TWO HEAD @90 DEGREE AREA LIGHT, 28L, TYPE FT, 5K CCT, CONCRETE POLE	LSI INDUSTRIES	MRL-LED-65-SIL-FT-50-70CRI-D90	25'	2 @ 90 DEGREES	LED	208V	1036W
E	COMMERCIAL MEDIUM FOUR HEAD @90 DEGREE AREA LIGHT, 28L, TYPE FT, 5K CCT, CONCRETE POLE	LSI INDUSTRIES	MRL-LED-65-SIL-FT-50-70CRI-Q90	25'	4 @ 90 DEGREES	LED	208V	2072W
F	COMMERCIAL MEDIUM TWO HEAD @90 DEGREE AREA LIGHT, 28L, TYPE FT, 5K CCT, CONCRETE POLE	LSI INDUSTRIES	SMA-LED-28L-ACR-FT-UNV-50-D90	25'	2 @ 90 DEGREES	LED	208V	400W
WP	COMMERCIAL MEDIUM THREE HEAD @ 90 AREA LIGHT, 28L, TYPE FT, 5K CCT, CONCRETE POLE	LSI INDUSTRIES	XWM-FT-LED-08L-50	12'	WALL PACK	LED	208V	64W

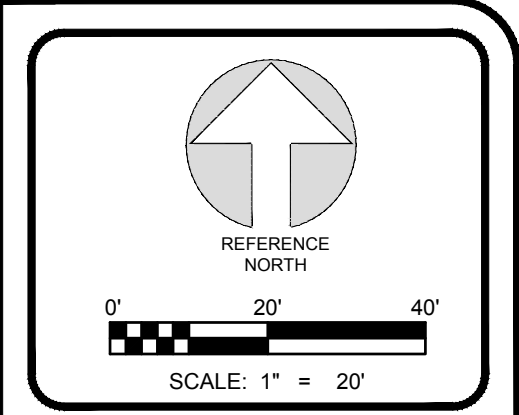
NOTE: ALL AREA LIGHTS REQUIRING POLES SHALL BE PROVIDED WITH POLES AND POLE BASES TO MATCH OTHER CEFCO SITES IN THE STATE OF FLORIDA. POLE AND BASES SHALL BE PROVIDED TO MEET THE MINIMUM WIND LOADING REQUIREMENTS FOR THIS SPECIFIC SITE PER ASCE-7. INCLUDE ALL ACCESSORIES FOR COMPLETE AND FULLY FUNCTIONING AREA LIGHT ASSEMBLIES. ALL AREA POLE LIGHTS SHALL BE AIMED IN PRESENCE OF LUMINAIRE PROVIDER. PROVIDE EXACT LAYOUT REQUIRED TO ACHIEVE PHOTOMETRIC CALCULATION VALUES INDICATED IN THE LIGHTING MANUFACTURER'S SITE LIGHTING PHOTOMETRIC STUDY. THE MANUFACTURER'S PHOTOMETRIC STUDY SHALL GOVERN THIS SITE LIGHTING LAYOUT.

ELECTRICAL SITE WORK PHASING:
ELECTRICAL SITE WORK SHALL BE PHASED PER GC DIRECTIONS IN FIELD.

CCTV GENERAL NOTE:
EC SHALL PROVIDE 1" CONDUIT SYSTEMS FROM LIGHTING POLES THAT WILL HAVE CAMERAS MOUNTED ON THEM TO THE C-STORE IT RACK. EXACT QUANTITIES AND LOCATIONS OF LIGHT POLES WITH CCTV CAMERAS SHALL BE DETERMINED IN FIELD WITH OWNER REPRESENTATIVE AND CCTV PROVIDER.

AERIAL / EXTERIOR LIGHTS:
P.C - PHOTOCELL
T.C - TIMER CONTROLLED

NOTE: TIMER CONTROLLED 24/7 DAYS OPERATIONAL WITH 10-HR BATTERY BACKUP POWER.
PHOTOCELL ON ALL OUTSIDE LIGHTING AND CANOPY LIGHTS UNLESS OTHERWISE NOTED.



Revision	Date
1	03/17/2023
2	01/04/2024

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Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

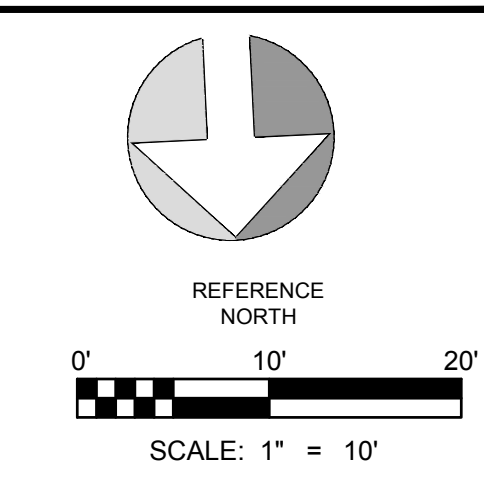
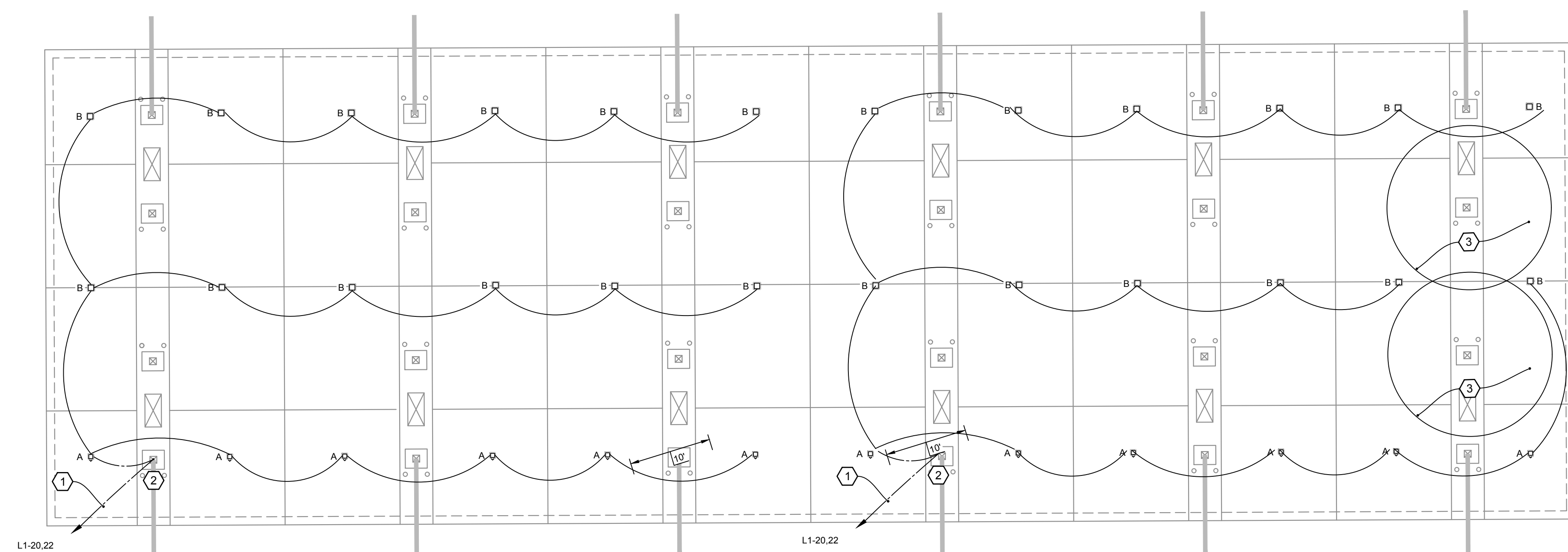
Sheet Title
ELECTRICAL SITE PLAN

Project No.
170-95-00

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Drawn By:

Checked By:



- SHEET NOTES:**
1. VERIFY EXACT REQUIREMENTS FOR ELECTRICAL EQUIPMENT WITH OWNER FOR THIS PROJECT. IN THE CASE OF A DISCREPANCY BETWEEN THE ACTUAL SELECTION OF EQUIPMENT AND THESE DRAWINGS, ADVISE THE OWNER BEFORE WORK BEGINS.
 2. AS PER NEC ARTICLE 240.21 THE MAIN DISCONNECT MUST HAVE ADEQUATE SPACE FOR THE CONDUCTORS.
 3. COORDINATE ALL INSTALLATIONS W/ OTHER TRADES.
 4. CANOPY LIGHTING FIXTURES TO BE OF LED TYPE. FIXTURES ARE PROVIDED AND INSTALLED BY CANOPY SUPPLIER AND CIRCUITED BY ELECTRICAL CONTRACTOR.
 5. ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE GASOLINE DISPENSER, GASOLINE TANK VENTS, AND UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA-30A.
 6. ALL INTRINSICALLY SAFE (IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSI/ISA RP 12.6. IN ADDITION, SPECIAL IS WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS) WHERE PRACTICAL, OR PERMANENTLY ATTACHED, GROUNDED DIVIDER.
 7. UNDERGROUND STORAGE FUEL TANK LEAK MONITOR PANEL REQUIRES AN EQUIPMENT GROUND WIRE AND A BARRIER GROUND WIRE.

- KEYED NOTES:**
- 1 CONTROL CIRCUIT FOR NIGHT OPERATION. RUN THIS CIRCUIT VIA LIGHTING CONTACTOR IN UNITIZED GEAR. REFER TO OUTDOOR LIGHTING SCHEMATIC DETAIL #3 ON SHEET E5.0 FOR ADDITIONAL INFORMATION. PROVIDE NON FUSED DISCONNECT FOR SIGN.
 - 2 SEAL-OFF FITTING. PROVIDE SEAL OFF FITTING FOR EACH CONDUIT WITHIN STEEL COLUMN AT HANDHOLE. REFER TO DETAIL 2 ON SHEET E5.0.
 - 3 HAZARDOUS CLASSIFIED AREA. VENTS FOR REGULAR, PREMIUM UNLEADED AND DIESEL ARE IN A HAZARDOUS CLASSIFIED AREA. AVOID ANY CONDUIT RUNS THROUGH CANOPY HAZARDOUS CLASSIFIED AREAS. IF UNAVOIDABLE, THE CONDUIT SYSTEM WILL REQUIRE A SEAL-OFF FITTING BEFORE ENTERING THE HAZARDOUS CLASSIFIED AREA AND UPON LEAVING THE HAZARDOUS CLASSIFIED AREA. CANOPY LIGHTS SHALL NOT BE LOCATED IN HAZARDOUS CLASSIFIED AREA.

CANOPY LIGHTING PLAN SCALE
1" = 10'-0"

SITE CANOPY LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING HEIGHT	ARRANGEMENT	LAMP	VOLTAGE	TOTAL WATTAGE
A	LEGACY LED CANOPY LIGHT, STANDARD SYMMETRIC, VERY HIGH OUTPUT 5000K COOL WHITE	LSI INDUSTRIES	CRUS-SCFT-LED-VHO-50	17'	SINGLE	LED	208V	160W
B	LEGACY LED CANOPY LIGHT, STANDARD SYMMETRIC, VERY HIGH OUTPUT 5000K COOL WHITE	LSI INDUSTRIES	CRUS-SC-LED-VHO-50	17'	SINGLE	LED	208V	160W

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 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

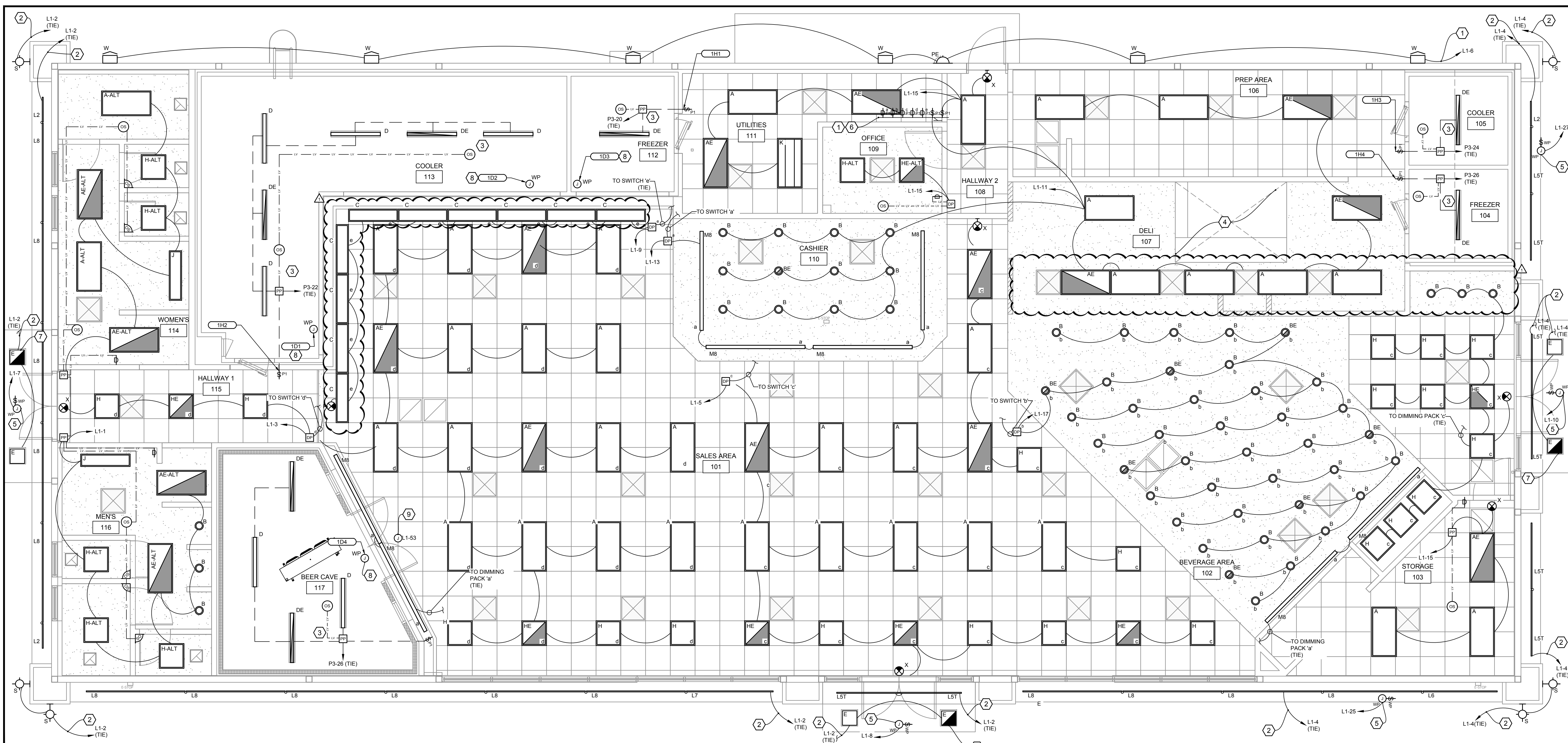
Sheet Title
CANOPY LIGHTING PLAN

Project No.
 170-95.00

Sheet
E1.1

Drawn By:
 Checked By:

Date



ELECTRICAL LIGHTING PLAN - CONVENIENCE STORE SCALE 1/4" = 1'-0"

SENSOR SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	RATINGS	NOTES
OC	OCCUPANCY SENSOR - CORNER MOUNT, PASSIVE INFRARED, DLM	WATTSTOPPER	LMPX-100	CORNER CEILING	UP TO 45' @ 10' MNT HGT	
OC	OCCUPANCY SENSOR - 360 DEGREE, PASSIVE INFRARED, DLM	WATTSTOPPER	LMPC-100	CEILING	15' RADIAL @ 10' MNT HGT	
DS	DIGITAL WALL SWITCH, ONE-BUTTON, ON/OFF, DLM	WATTSTOPPER	LMSW-101	WALL	--	
DS	DIGITAL WALL SWITCH, ONE-BUTTON, 2HR OVERRIDE, DLM ORDER CUSTOM ENGRAVED BUTTON: "2HR OVERRIDE" PROGRAM BUTTON: 2HR OVERRIDE ON FOR TIME-OF-DAY CONTROLLED LIGHTS	WATTSTOPPER	LMSW-101	WALL	--	
DS	DIGITAL WALL SWITCH, ON/OFF/RAISE/LOWER, DLM	WATTSTOPPER	LMDM-101	WALL	--	
DP	DIMMING PACK: DIGITAL ON/OFF/RAISE/LOWER 0-10V DIMMING ROOM CONTROLLER, ONE, TWO, OR THREE RELAY, DLM	WATTSTOPPER	ONE RELAY: LMRC-211 TWO RELAY: LMRC-212 THREE RELAY: LMRC-213	ABOVE CEILING	@120V, 20A**, 1HP @277V, 20A**, 1HP **16A FOR E-BALLAST, TOTAL LOAD PER ROOM CONTROLLER	NOTE 1
PP	POWER PACK: DIGITAL ON/OFF NON-DIMMING ROOM CONTROLLER, ONE OR TWO RELAY, DLM	WATTSTOPPER	ONE RELAY: LMRC-101 TWO RELAY: LMRC-102	ABOVE CEILING	@120V, 20A**, 1HP @277V, 20A**, 1HP **16A FOR E-BALLAST, TOTAL LOAD PER ROOM CONTROLLER	NOTE 1

GENERAL NOTES:
A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT NECESSARILY BE REFLECTED IN CATALOG NUMBER AND/OR DESCRIPTION IN THE SCHEDULE.
B. PROVIDE ALL LIGHTING CONTROL COMPONENTS TO PERFORM FUNCTION AS DESCRIBED ON THESE PLANS. REFLECT ALL BRIDGES, GATEWAYS, POWER SUPPLIES, POWER PACKS / ROOM CONTROLLERS, ACCESSORIES, AND PROGRAMMING FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. LIGHTING CONTROLS ARE INDICATED FOR DESIGN INTENT ONLY. EC SHALL PROVIDE SHOP DRAWINGS AND PRODUCT CUTSHEETS FOR REVIEW BY THE ENGINEER. PROVIDE DETAILED DESCRIPTIONS OF LIGHTING FUNCTIONS FOR EACH ROOM.
C. PROVIDE ALL PROGRAMMING, COMMISSIONING, AND TRAINING OF LIGHTING CONTROLS AS REQUIRED BY THESE PLANS, OWNER AND LANDLORD REQUIREMENTS, AND ENERGY CODE.
D. LIGHTING CONTROL SYSTEM FUNCTIONAL TESTING SHALL BE PROVIDED AND DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PERFORMANCE CRITERIA OF THE PLANS AND SPECIFICATIONS SHALL BE PROVIDED TO THE OWNER AND ENGINEER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
E. POWER PACKS / ROOM CONTROLLERS ARE INDICATED ON PLANS AS SINGLE RELAY UNITS FOR CLARITY ONLY. MULTI-RELAY POWER PACKS / ROOM CONTROLLERS MAY BE USED IN LIEU OF SINGLE RELAY UNITS. COORDINATE WITH MANUFACTURER FOR SELECTIONS.

NOTES:
1. SELECT APPROPRIATE NUMBER OF CONTACTS BASED ON APPLICATION.

- KEYED NOTES:**
- MANUAL LIGHTING CONTROLS: MANUAL CONTROLS NOT LOCATED WHERE THE LIGHTS BEING CONTROLLED ARE VISIBLE SHALL HAVE LABELED INDICATION OF AREA SERVED AND A PILOT LIGHT TO INDICATE STATUS OF LIGHTS IN 'ON' AND 'OFF' STATES.
 - BUILDING LIGHTING CIRCUIT: ROUTE CIRCUIT VIA LIGHTING CONTACTORS IN CPI SWITCHGEAR.
 - WALK-IN COOLERS/FREEZERS: PROVIDE RACEWAYS, WIRING, AND ALL LIGHTING FIXTURES IN COOLER / FREEZER. COORDINATE THE INSTALLATION OF SWITCHES AND PLATES WITH THE EQUIPMENT SUPPLIER. REFER TO DETAIL #4 ON SHEET E2.1 FOR LOW TEMPERATURE OCCUPANCY SENSOR AND POWER PACK FOR AUTOMATED CONTROL OF LIGHTS. ALL PENETRATIONS IN WALK-IN/STEP-IN COOLERS/FREEZERS/BEER CAVE SHALL BE MADE THROUGH THE TOP OF THE BOX. MAKE ALL PENETRATIONS PER DETAIL 1 ON SHEET E5.1.
 - HOOD LIGHTS: REFER TO SHEET MCO.2 FOR HOOD LIGHTING.
 - SIGN: PROVIDE A WEATHER PROOF JUNCTION BOX FOR EXTERIOR SIGN. ROUTE CIRCUIT VIA "SIGNAGE LIGHTING ZONE" LIGHTING RELAY PANEL IN CPI SWITCHGEAR. REFER TO "OUTDOOR LIGHTING CONTROL SCHEMATIC", DETAIL #3 ON SHEET E5.0. PROVIDE WEATHERPROOF SWITCH FOR LOCAL DISCONNECTING MEANS IF ONE IS NOT INCLUDED INTEGRAL TO SIGN.
 - SWITCHBANK: PROVIDE PERMANENT ENGRAVED COVERPLATE INDICATING CONTROLLED AREA BELOW EACH LIGHT SWITCH.
 - EXTERIOR EMERGENCY EGRESS LIGHTING: CONNECT FIXTURES ABOVE ENTRANCE TO 100W EXTERNAL 90-MIN BATTERY BACKED EMERGENCY LIGHTING INVERTER, PHILIPS BODINE ELI-S-100 OR EQUAL. INSTALL ABOVE CPI SWITCHGEAR.
 - WALK-IN COOLER / FREEZER ANTHONY DOOR LIGHTING: COORDINATE WITH EQUIPMENT SUPPLIER FOR FINAL CONNECTION.
 - BEER CAVE SIGNAGE: ADD A JUNCTION BOX FOR BEER CAVE SIGN. REFER TO TEXAS REPUBLIC SIGNS DRAWINGS FOR MORE INFORMATION.

- SHEET NOTES:**
- HALF SHADED OR FULLY SHADED LUMINAIRES SHALL BE PROVIDED WITH SELF-CONTAINED 90-MINUTE BACK-UP BATTERY PACKS.
 - EMERGENCY LIGHTING FIXTURES SHALL SWITCH WITH LOCAL NORMAL LIGHTING UNLESS INDICATED AS "EM/IN" OR "NL" (NIGHT LIGHT).
 - EMERGENCY FIXTURES WITH INTEGRAL 90-MINUTE BATTERY PACKS SHALL BE PROVIDED WITH AN UN-SWITCHED HOT CONDUCTOR SO THAT EMERGENCY BATTERY PACK CAN CHARGE WHEN POWER TO THE LIGHT FIXTURES IS SWITCHED OFF.
 - EXIT AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED TO UN-SWITCHED CIRCUIT AHEAD OF LIGHTING CONTROLLER.
 - LIGHT FIXTURES IN THE SAME ROOM SHALL HAVE THE SAME ORIENTATION.
 - THE CIRCUIT NEUTRAL CONDUCTOR SHALL BE ROUTED TO EACH LINE VOLTAGE WALL SWITCH, WHERE THE WIRING DEVICE DOES NOT REQUIRE THE USE OF A NEUTRAL CONDUCTOR, CAP FOR FUTURE USE.
 - REFER TO DETAIL #3 ON SHEET E5.0 FOR OUTDOOR LIGHTING CONTROL SCHEMATIC.
 - REFER TO ROOF PLAN FOR PHOTOCELL PROPOSED LOCATION AS WELL AS CONDUIT AND WIRING REQUIREMENTS.

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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
CEFCO ELECTRICAL LIGHTING PLAN

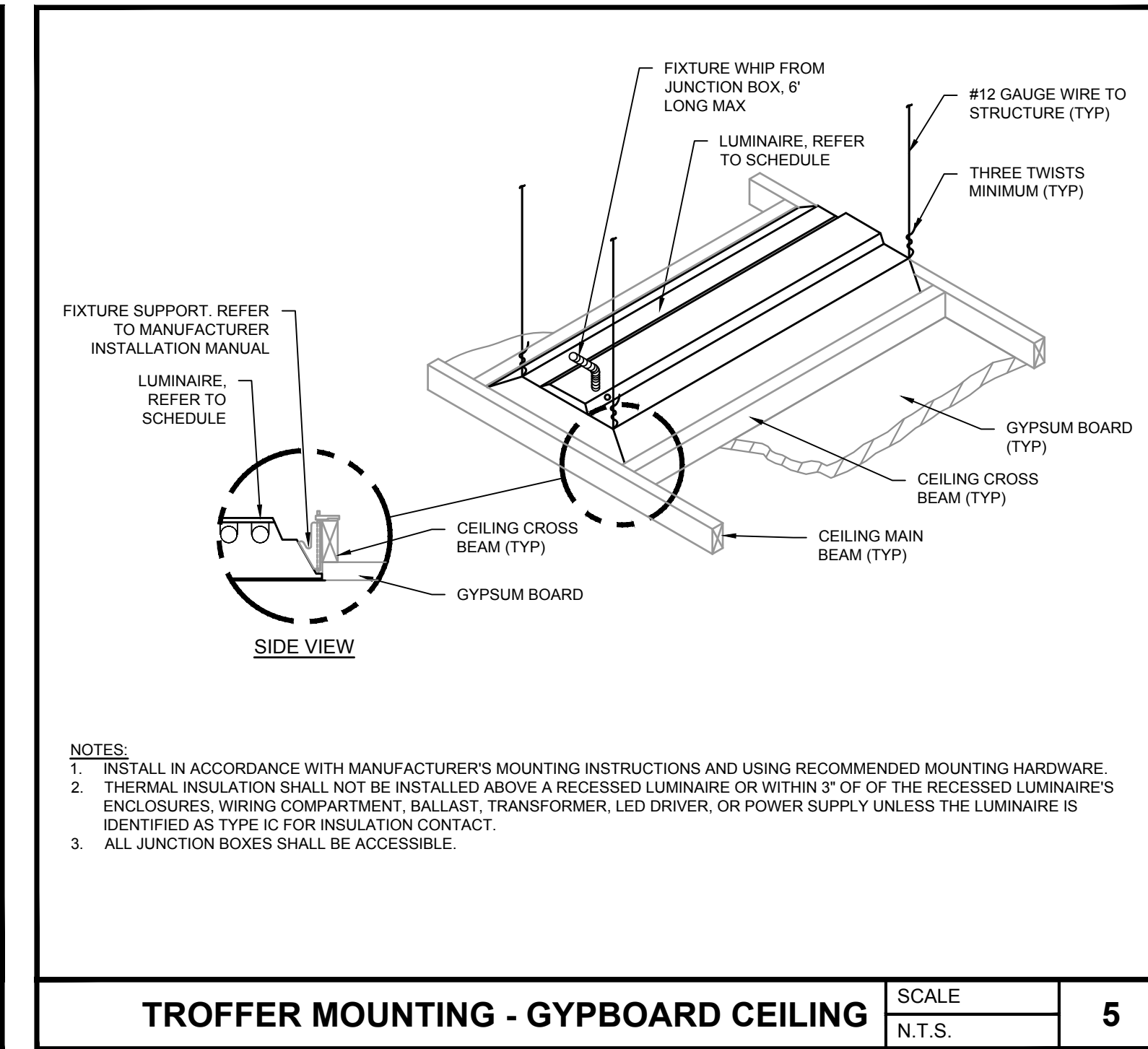
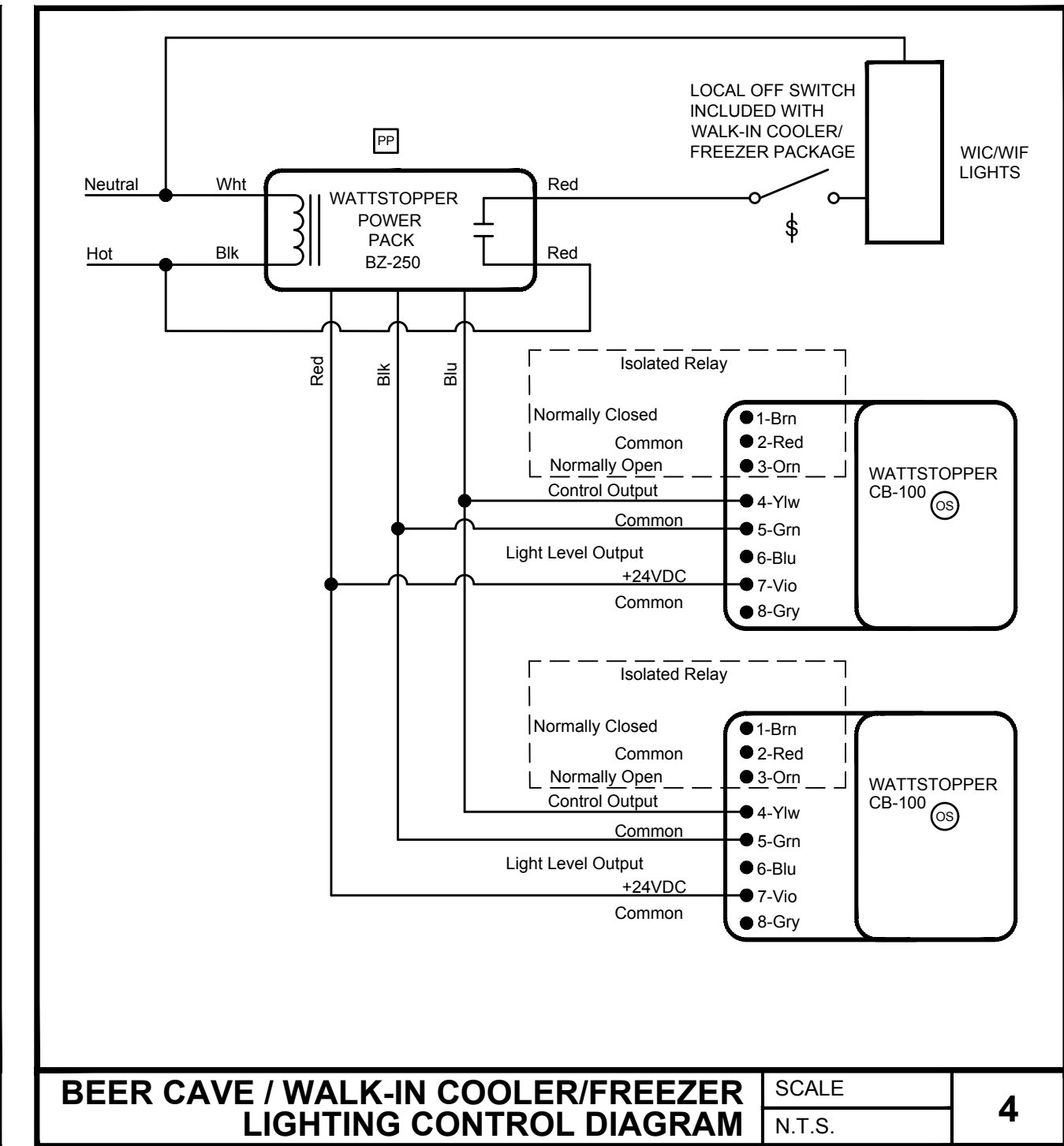
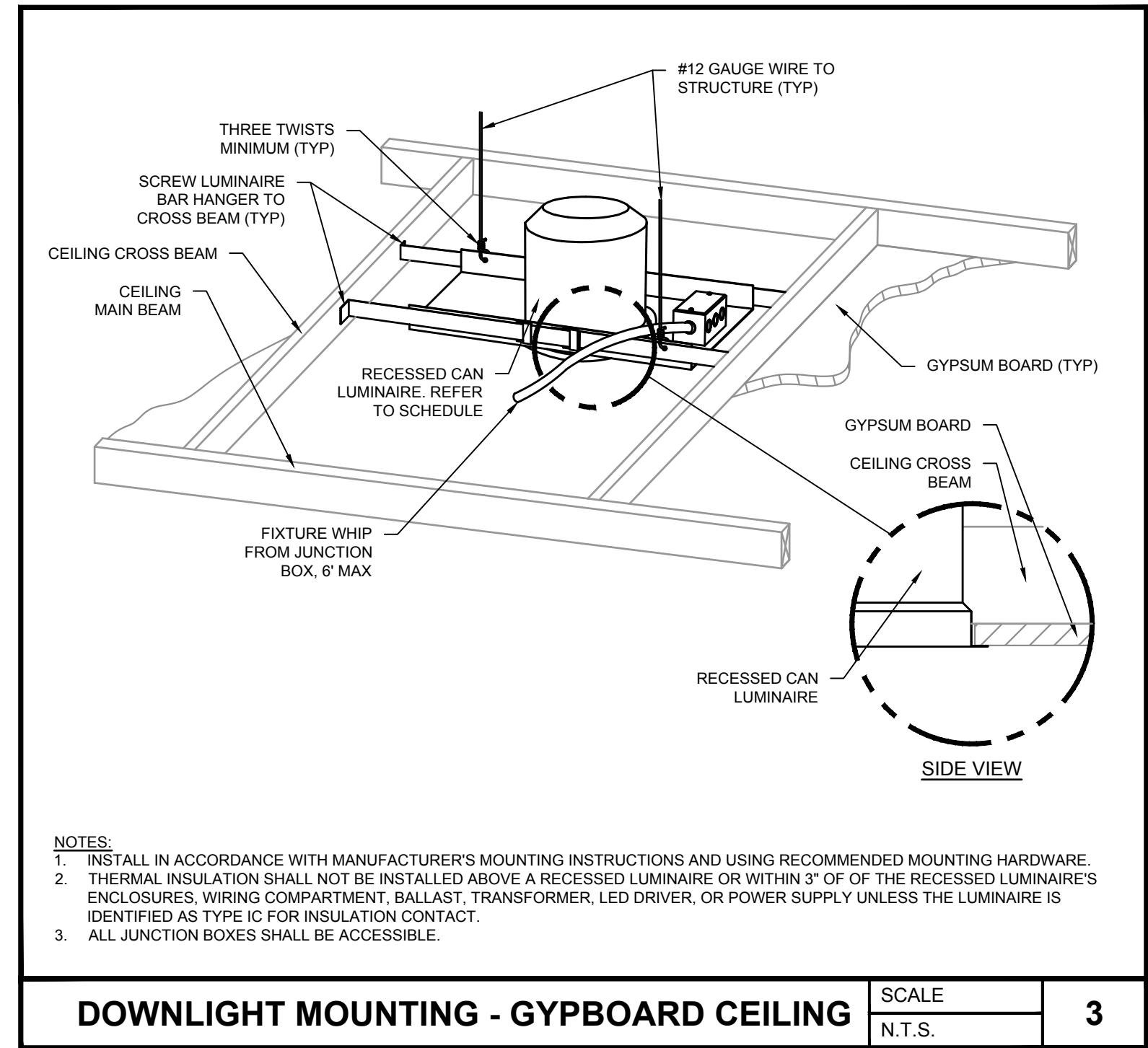
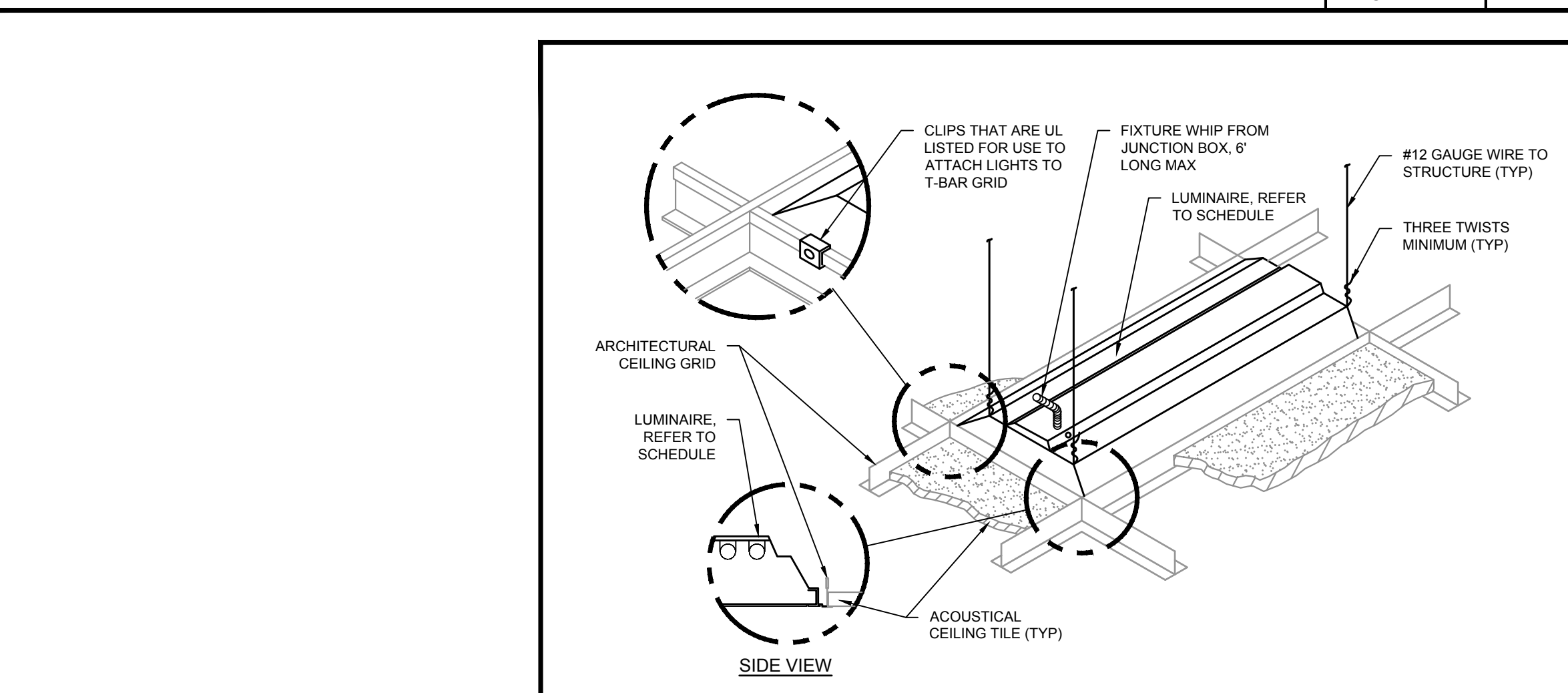
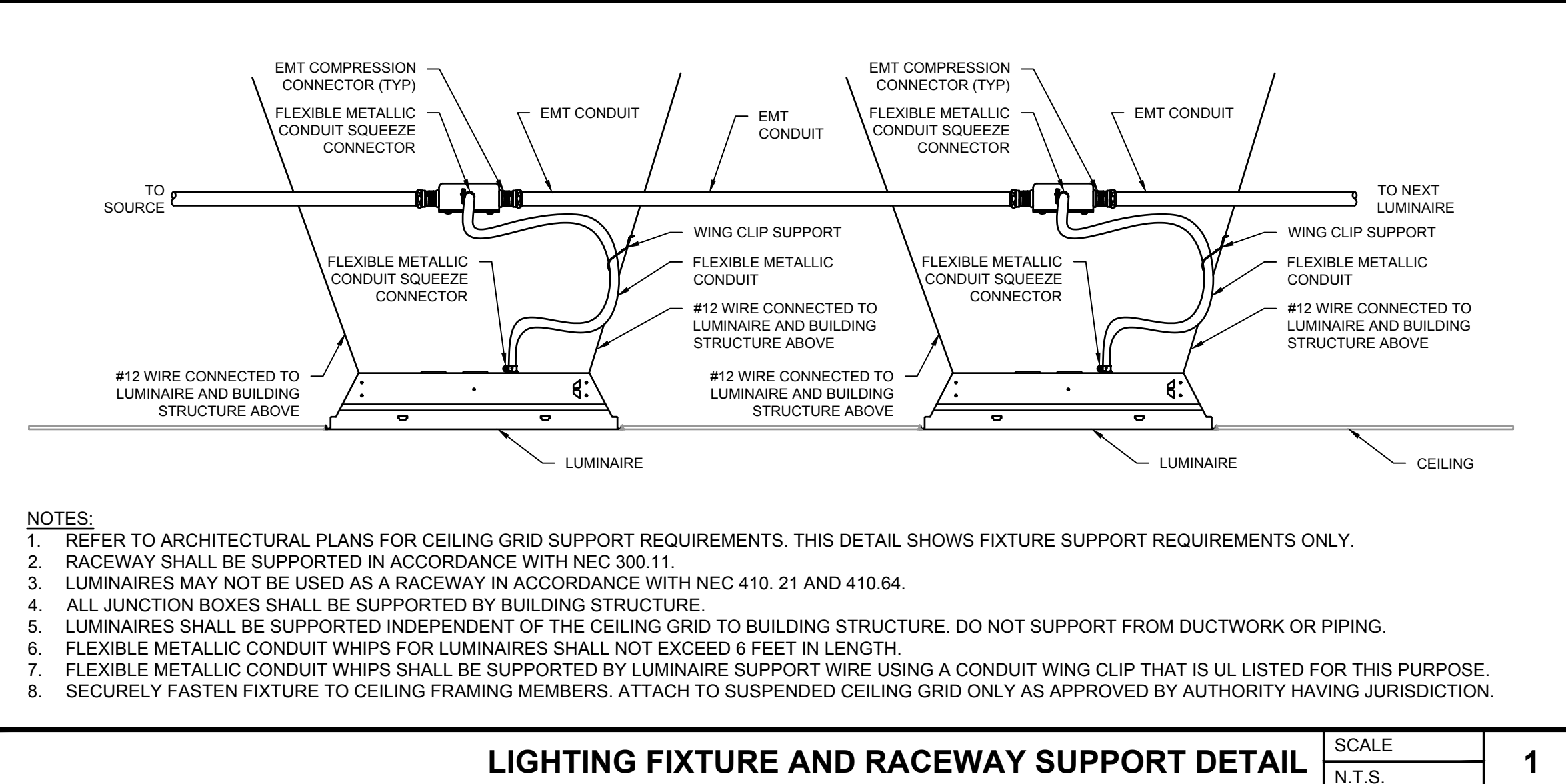
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Sheet E2.0
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LIGHTING FIXTURE SCHEDULE

LABEL	DESCRIPTION	LIGHT FIXTURE		MOUNTING	QTY. OF LAMPS	VOLTS	WATTS
		MEG	MODEL #				
A	2'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	PT BLP3 24 3CP 2X4	LAY-IN	LED	120	50
AE	2'x4' EDGE-LIT EMERGENCY BACKUP LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	PT BLP3 24 3CP 2X4EM	LAY-IN	LED	120	50
A-ALT	2'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP24 LED 50 UE DIM 40; FK24	LAY-IN	LED	120	50
AE-ALT	2'x4' EDGE-LIT EMERGENCY BACKUP LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP24 LED 50 UE DIM 40 EM; FK24	LAY-IN	LED	120	50
B	6" LED DOWNLIGHT, 2500LUMEN.	LSI	LCD6 LED 25L UNV DIM1 40	RECESSED	LED	120	22
BE	6" LED EMERGENCY BACKUP DOWNLIGHT, 2500LUMEN.	LSI	LCD6 LED 25L UNV DIM1 40 EM	RECESSED	LED	120	22
C	1'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP14 LED 40 UE DIM 40	LAY-IN	LED	120	40
C2	1'x2' EDGE-LIT LED PANEL, 2000 LUMEN, 40K, DIMS TO 10%	LSI	CONSULT WITH LSI REP FOR 1'X2' FLAT PANEL LUMINAIRE	LAY-IN	LED	121	20
D	4' LED WET LOCATION LINEAR LUMINAIRE CONSTRUCTED OF FIBERGLASS-REINFORCED FIBERGLASS HOUSING, 6695 LUMENS, 4000K COLOR TEMP, 0-10V DIMMING.	LSI	EG3 4 LED 6L DA S UNV DIM 40 80	SURFACE	LED	120	50
DE	4' LED WET LOCATION EMERGENCY BACKUP LINEAR LUMINAIRE CONSTRUCTED OF FIBERGLASS-REINFORCED FIBERGLASS HOUSING, 6695 LUMENS, 4000K COLOR TEMP, 0-10V DIMMING.	LSI	EG3 4 LED 6L DA S UNV DIM 40 80 EM	SURFACE	LED	120	50
E	LEGACY LED CANOPY LUMINAIRE, 10525 LUMEN, 50K.	LSI	CRUS LW LED SS 50 UE WHT	CANOPY	LED	120	74
H	2'x2' EDGE-LIT LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40	LAY-IN	LED	120	30
HE	2'x2' EDGE-LIT EMERGENCY BACKUP LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40 EM	LAY-IN	LED	120	30
H-ALT	2'x2' EDGE-LIT LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40; FK22	LAY-IN	LED	120	30
HE-ALT	2'x2' EDGE-LIT EMERGENCY BACKUP LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40 EM; FK22	LAY-IN	LED	120	30
J	1'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP14 LED 40 UE DIM 40 U; FK14	LAY-IN	LED	120	40

L2	QWIK STIK FLAT SERIES 2' LED FIXTURE WITH 12VDC POWER SUPPLY, SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS24-XX-FL	SURFACE	LED	120	4.7
L5T	QWIK STIK FLAT SERIES 5'-4" LED FIXTURE WITH 12VDC POWER SUPPLY, SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS64-XX-FL	SURFACE	LED	120	14.2
L6	QWIK STIK FLAT SERIES 6' LED FIXTURE WITH 12VDC POWER SUPPLY, SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS74-XX-FL	SURFACE	LED	120	15.6
L7	QWIK STIK FLAT SERIES 7' LED FIXTURE WITH 12VDC POWER SUPPLY, SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS84-XX-FL	SURFACE	LED	120	18.0
L8	QWIK STIK FLAT SERIES 8' LED FIXTURE WITH 12VDC POWER SUPPLY, SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS96-XX-FL	SURFACE	LED	120	21.2
M4	4FT LED STRIP DIFFUSED LUMINAIRE, 4000 LUMENS, 4000K.	LSI	SDL4 LED 40L FL UNV DIM1 40 90CRI	SURFACE	LED	120	31
M8	8FT LED STRIP DIFFUSED LUMINAIRE, 8000 LUMENS, 4000K.	LSI	SDL8 LED 80L FL UNV DIM1 40 90CRI	SURFACE	LED	120	61
S	DORADO ROUND 4" ROUND LED WALL MOUNT CYLINDER, UP/DOWN, 50K	E-CONOLIGHT	OWCQ4-U-10-33-MV-50-BZ	WALL	LED	120	33
W	MIRADA OUTDOOR LED WALL SCONCE, TYPE 4, 8000 LUMEN, 50K	LSI INDUSTRIES	XWM-FT-LED-08-50-UE	WALL @ 12 FT	LED	120	62
PE	WALL SCONCE, WET-LISTED EMERGENCY LIGHT WITH BATTERY BACKUP, BRONZE DIE-CAST HOUSING WITH POLYCARBONATE LENS AND MIRROR REFLECTOR.	E-CONOLIGHT	E-XMTDCZ	WALL	XENON	120	4
X	EXIT SIGN LIGHT WITH BATTERY BACKUP, WHITE POLYCARBONATE HOUSING, RED EXIT LETTERS.	SURE-LITES	APX7R	SURFACE	LED	120	7

1. ALL LIGHT FIXTURE SUBSTITUTION SHALL BE APPROVED BY OWNER AND MUST BE EQUAL TO OR OF BETTER QUALITY THAN FIXTURES SPECIFIED BY ARCHITECT.
2. PENDANT LUMINAIRES: ORIENTATION OF PENDANT LUMINAIRES SHALL BE THE SAME.
3. FASCIA LIGHT FIXTURES: BOLT ALL FASCIA LIGHT FIXTURES TOGETHER PER MANUFACTURER RECOMMENDATIONS.



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1	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
2	ISSUE FOR PERMIT	03/17/2023

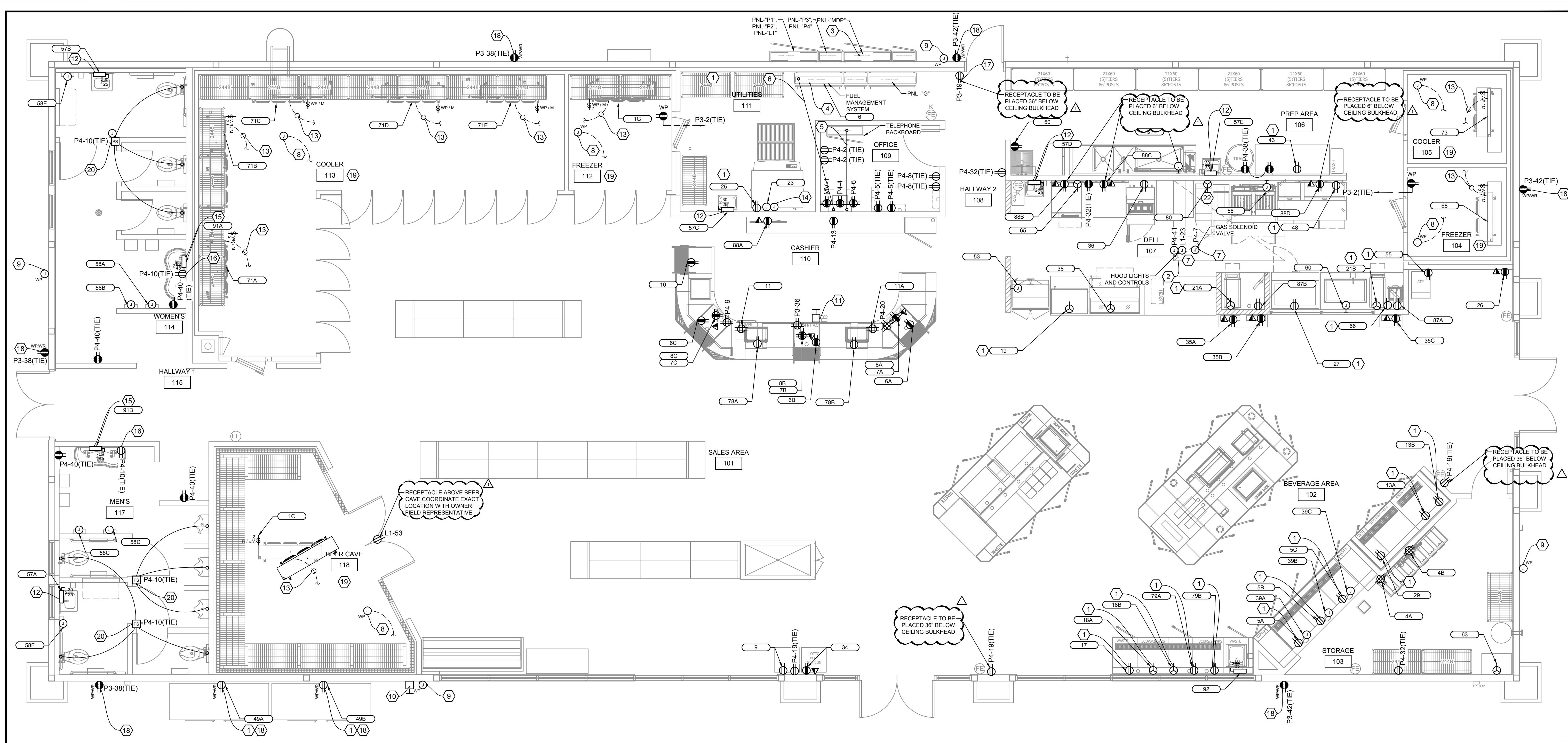
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
ELECTRICAL LIGHTING DETAILS

Project No. 170-95.00
 Drawn By: E2.1
 Checked By:



ELECTRICAL POWER PLAN - CONVENIENCE STORE SCALE 1/4" = 1'-0"

KEYED NOTES:

- 1. **EQUIPMENT GFCI PROTECTION:** REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER.
- 2. **GREASE HOOD WITH FIRE SUPPRESSION:** PROVIDE SEPERATE 120V CIRCUITS TO LIGHTS (L1-23) AND CONTROLS (P4-41) FOR HOODS. WIRE SUPPLY AIR FAN AND EXHAUST AIR FAN THROUGH HOOD CONTROLLER. REFER TO LIGHTING PLAN FOR LIGHT FIXTURE DETAILS.
- 3. **CPI UNITIZED SWITCHGEAR:** COORDINATE EXACT LOCATION WITH OTHER TRADES. REFER TO ELECTRICAL RISER DIAGRAM.
- 4. **MAC VICTOR UPS:** OWNER SUPPLIED 2KVA MAC VICTOR UPS WITH FOUR (4) 120V, 20A OUTPUT CIRCUITS. UPS TO BE MOUNTED ABOVE CPI PANEL. COORDINATE FINAL LOCATION WITH OWNER. PROVIDE 2#12, #12 GND & #12 IG, 3/4" FOR EACH OUTPUT BRANCH CIRCUIT.
 - 1. **MV #1:** BACK OFFICE POS HARDWARE (500VA).
 - 2. **MV #2:** TWO POS UNITS AT FROM SALES COUNTER (THE TWO CLOSEST TO FRONT/MAIN ACCESS) (400VA).
 - 3. **MV #3:** ONE POS UNIT (CLOSEST TO SIDE/END ACCESS) AND TELECOMMUNICATIONS CABINET (400VA).
 - 4. **MV #4:** CPI FUELING CABINET FOR POWERING VEEDER ROOT TLS 450 PLUS ATG, VERIFONE FCI FUEL CONTROLLER, AND WAYNE FUSION IX GATEWAY. (500VA)
- 5. **TBB TO OFFICE CONDUIT:** 2" CONDUIT WITH PULLWIRE ROUTED ABOVE CEILING FROM TBB IN UNITIZED SWITCHGEAR IT RACK IN OFFICE.
- 6. **FUEL EQUIPMENT TO POS EQUIPMENT CONDUIT:** 2" W/ PULL STRING ROUTED ABOVE CEILING FROM FUEL EQUIPMENT IN UNITIZED SWITCHGEAR TO POS EQUIPMENT IN BACK OFFICE.
- 7. **HEAT PRODUCING EQUIPMENT UNDER HOOD:** UPON ACTIVATION OF HOOD, THE SOLENOID OPERATED GAS SHUT OFF VALVE SHALL CLOSE AND ALL ELECTRICALLY POWERED ITEMS UNDER HOOD SHALL BE ELECTRICALLY DISCONNECTED VIA A RESETTABLE CONTACTOR.
- 8. **COOLER/FREEZER THERMOSTAT:** PROVIDE WP JUNCTION BOX FOR COOLER / FREEZER THERMOSTAT. ROUTE 3/4" CONDUIT WITH CONTROL WIRING FROM REMOTE CONDENSERS TO EVAPORATOR(S) VIA THERMOSTAT. COORDINATE WITH COOLER / FREEZER SUPPLIER PRIOR TO ROUGH-IN.
- 9. **EASIWASH SYSTEM CONTROLS:** PROVIDE 3/4" WITH (1) 20/6 CONTROL CABLE PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS. ROUTE FROM REMOTE CONTROL POINT TO MAIN UNIT[63].
- 10. **EMERGENCY FUEL SHUT-OFF (EFSO) PUSHBUTTON:** REFER TO TANK PLANS FOR EXACT LOCATION. PROVIDE J-BOX IN WALL WITH 1/2" CONDUIT STUBBED THROUGH WALL AND ROUTED TO DISPENSER DISCONNECT IN CPI UNITIZED SWITCHGEAR ENCLOSURE.
- 11. **EMERGENCY FUEL SHUT-OFF (EFSO) PUSHBUTTON:** LOCATE PUSHBUTTON UNDER CASHIER COUNTER. ROUTE WIRING IN UNDER SLAB CONDUIT BACK TO DISPENSER DISCONNECT IN CPI UNITIZED SWITCHGEAR ENCLOSURE. REFER TO UNDERSLAB ELECTRICAL PLAN.
- 12. **WATER HEATER:** PROVIDE 2P-25A DISCONNECTING MEANS. MOUNT ON WALL ADJACENT TO WATER HEATER AND CONNECT TO WATER HEATER WITH FLEXIBLE CONDUIT.
- 13. **COOLER EVAPORATORS:** PROVIDE 2P-20A WEATHERPROOF MOTOR RATED SWITCH. PROVIDE 3/4" CONDUIT WITH CONTROL WIRING FROM REMOTE CONDENSER TO EVAPORATOR(S) FOR CONTROLS. COORDINATE WITH COOLER / FREEZER SUPPLIER PRIOR TO ROUGH-IN.
- 14. **ICE MAKER:** ROUTE 3/4" CONDUIT WITH CONTROL WIRING FROM ICE MAKER TO REMOTE CONDENSER ON ROOF.
- 15. **WATER HEATER:** PROVIDE 2P-45A DISCONNECTING MEANS. MOUNT ON WALL ADJACENT TO WATER HEATER AND CONNECT TO WATER HEATER WITH FLEXIBLE CONDUIT.
- 16. **FAUCET SENSOR:** RECEPTACLE FOR POWER SUPPLY FOR TOUCHLESS OPERATION FAUCETS. ACCESS PANEL IS REQUIRED. GFCI PROTECTION PROVIDED BY BREAKER.
- 17. **INSECT LIGHT:** PROPOSED LOCATION OF INSECT LIGHT. FIELD VERIFY EXACT LOCATION WITH CEFCO FIELD REPRESENTATIVE PRIOR TO ROUGH-IN.
- 18. **METAL WHILE-IN-USE WEATHERPROOF COVER:** PROVIDE INTERMATIC WP1010MXD.
- 19. **PENETRATIONS IN WALK-IN AND STEP-IN COOLER/FREEZER/BEER CAVE:** ALL PENETRATIONS SHALL BE MADE THROUGH THE TOP OF THE COOLER/FREEZER BOX. REFER TO SEALING PENETRATION DETAIL 1 ON SHEET E5.1.
- 20. **WATER CLOSET / URINAL FLUSHVALVE SENSOR:** POWER SUPPLY FOR TOUCHLESS OPERATION FLUSHVAVE. REFER TO DETAIL #3 ON SHEET E5.2. ACCESS PANEL IS REQUIRED.

GENERAL NOTES:

- 1. CONTRACTOR SHALL REFER TO EQUIPMENT VENDOR, AND ARCHITECTURAL DRAWINGS FOR ALL REQUIRED ELECTRICAL DEVICES, DEVICE LOCATIONS, AND DEVICE MOUNTING HEIGHTS PRIOR TO BID / INSTALLATION. DRAWINGS ARE NOT TO BE SCALED.
- 2. COORDINATE ELECTRICAL REQUIREMENTS, MOUNTING AND CONNECTIONS WITH ALL EQUIPMENT VENDORS PRIOR TO PURCHASING ELECTRICAL DEVICES.
- 3. SHOW BONDING REQUIREMENTS PER 250.94.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE SHOW WINDOW RECEPTACLES PER 210.62
- 5. SEAL OFF REQUIRED ON ALL CONDUITS ENTERING, LEAVING, OR PASSING THROUGH A CLASSIFIED AREA.
- 6. ALL OUTLET COVERS TO BE STAINLESS STEEL.

Revision	Date	Issue
1	03/17/2023	ISSUE FOR PERMIT
2	01/04/2024	ISSUE CLIENT COMMENTS - REV 1

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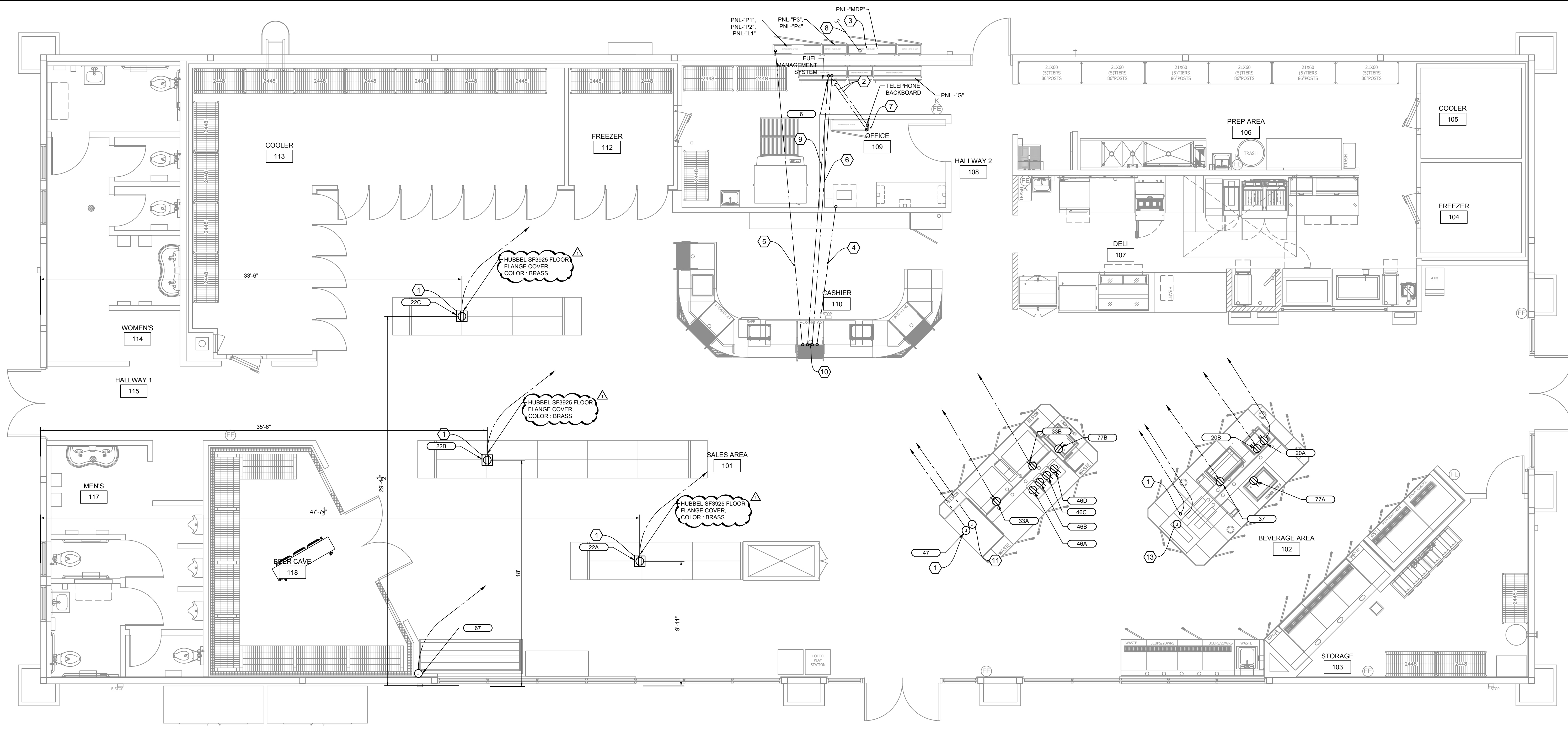
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
CEFCO ELECTRICAL POWER PLAN

Project No.
 170-95.00

Sheet
E3.0

Drawn By:
 Checked By:



UNDERSLAB ELECTRICAL PLAN - CONVENIENCE STORE SCALE 1/4" = 1'-0"

THERE ARE ADDITIONAL UNDERGROUND CONDUITS THAT WILL BE REQUIRED FOR SITE, FUEL SYSTEMS AND OTHER MISCELLANEOUS ITEMS. IT IS THE RESPONSIBILITY OF THE GC TO PROVIDE THE EC WITH A COMPLETE SET OF PLANS. THE EC SHALL PROVIDE ALL UNDERGROUND CONDUIT SYSTEMS NEEDED FOR A COMPLETE AND FULLY FUNCTION BUILDING INCLUDING UNDERGROUND CONDUIT SYSTEMS

- KEYED NOTES:**
- 1 CONDUIT STUB-UP: COORDINATE EXACT STUB UP/RECEPTACLE LOCATION WITH EQUIPMENT VENDOR PRIOR TO START OF TRENCHING.
 - 2 TELEPHONE SERVICE CONDUITS: REFER TO SITE ELECTRICAL PLAN FOR REQUIREMENTS AND ROUTING.
 - 3 CPI UNITIZED SWITCHGEAR: COORDINATE EXACT LOCATION WITH OTHER TRADES. REFER TO ELECTRICAL RISER DIAGRAM.
 - 4 CASHIER CONDUITS: ROUTE CONDUITS FOR CASHIER COUNTER EQUIPMENT POWER BELOW SLAB FROM ELECTRICAL PANELS TO CASHIER COUNTER.
 - 5 CASHIER COUNTER TO OFFICE CONDUIT: 2" W/ PULL STRING ROUTED BELOW SLAB FROM CASHIER COUNTER TO OFFICE. REFER TO LOW VOLTAGE PLAN.
 - 6 CASHIER COUNTER TO FUEL EQUIPMENT CONDUIT: 2" W/ PULL STRING ROUTED BELOW SLAB FROM CASHIER COUNTER TO FUEL EQUIPMENT IN UNITIZED SWITCHGEAR.
 - 7 TELECOMMUNICATIONS CABINET: CPI TELECOM CABINET WITH FIRE-RATED PLYWOOD BACKBOARD AND INTERSYSTEM GROUND BUS BAR. CONNECT GROUND BUS BAR TO BUILDING GROUNDING ELECTRODE SYSTEM WITH (1) #3/0 GROUND CONDUCTOR. COORDINATE WITH TELEPHONE COMPANY FOR REQUIREMENTS. COORDINATE WITH OWNER FOR FINAL LOCATION.
 - 8 C-STORE INCOMING FEEDERS: REFER TO SITE PLAN AND RISER DIAGRAM.
 - 9 EMERGENCY FUEL SHUT-OFF (EFSO) PUSHBUTTON: 3/4" CONDUIT FOR EFSO WIRING FROM CASHIER COUNTER TO DISPENSER DISCONNECT IN CPI SWITCHGEAR.
 - 10 CASHIER COUNTER CONDUITS: STUB CASHIER COUNTER UNDERGROUND LV CONDUITS INTO FLUSH MOUNT 12"x12" ENCLOSURE. INSTALL ENCLOSURE BELOW COUNTER. COORDINATE WITH MILLWORK PRIOR TO ROUGH-IN.
 - 11 MERCHANDISER EQUIPMENT: ROUTE 3/4" CONDUIT WITH CONTROL WIRING FROM MERCHANDISER TO REMOTE CONDENSER ON ROOF.
 - 12 NOT USED.
 - 13 CABINET LED: PROVIDE JUNCTION BOX FOR CABINET LED.

- GENERAL NOTES:**
1. CONTRACTOR SHALL REFER TO EQUIPMENT VENDOR, AND ARCHITECTURAL DRAWINGS FOR ALL REQUIRED ELECTRICAL DEVICES, DEVICE LOCATIONS, AND DEVICE MOUNTING HEIGHTS PRIOR TO BID / INSTALLATION. DRAWINGS ARE NOT TO BE SCALED.
 2. COORDINATE ELECTRICAL REQUIREMENTS, MOUNTING AND CONNECTIONS WITH ALL EQUIPMENT VENDORS PRIOR TO PURCHASING ELECTRICAL DEVICES.

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Sheet Title
CEFCO UNDERSLAB ELECTRICAL PLAN

Project No. 170-95.00
 Drawn By: _____
 Checked By: _____

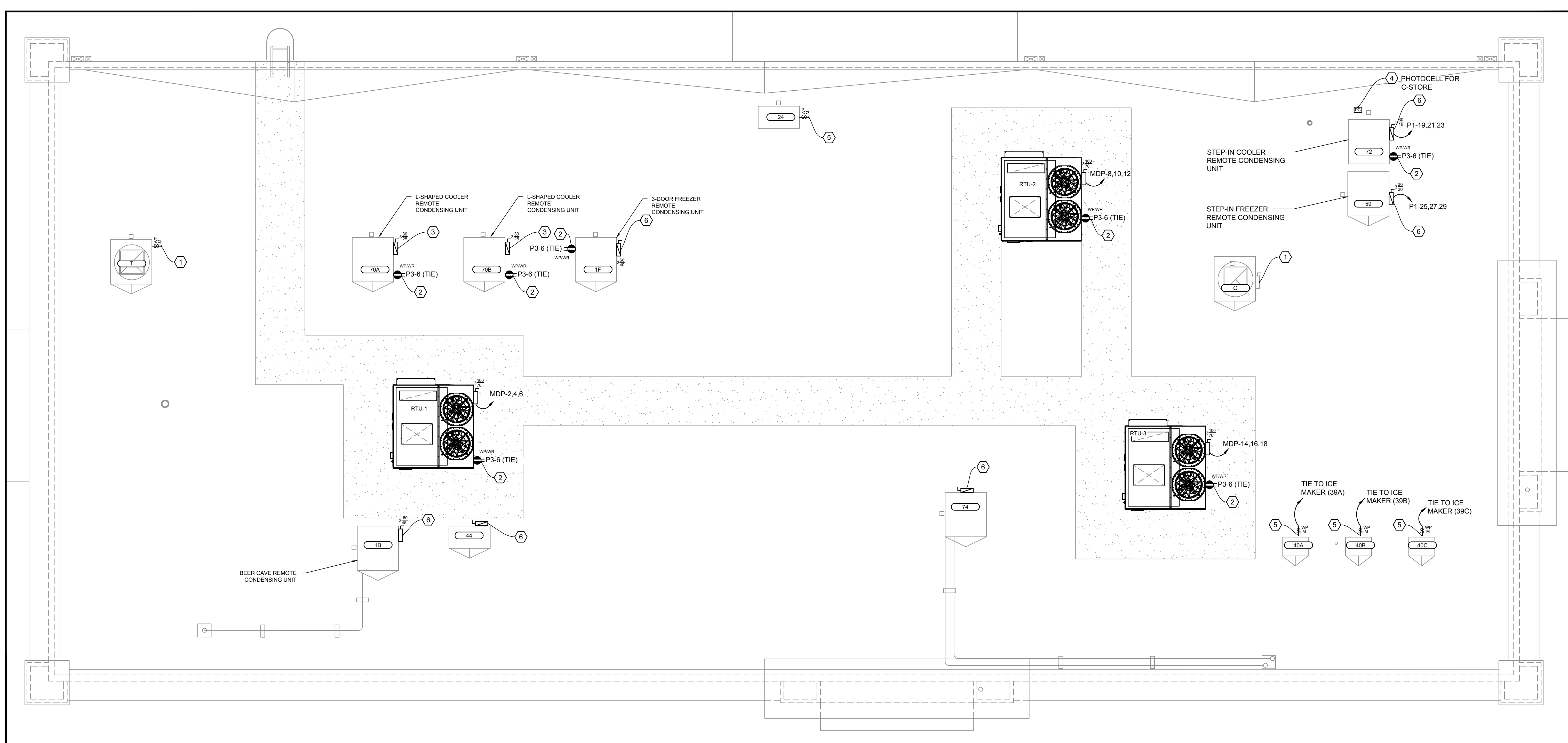
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E3.1

ELECTRICAL EQUIPMENT SCHEDULE (CONTINUED):

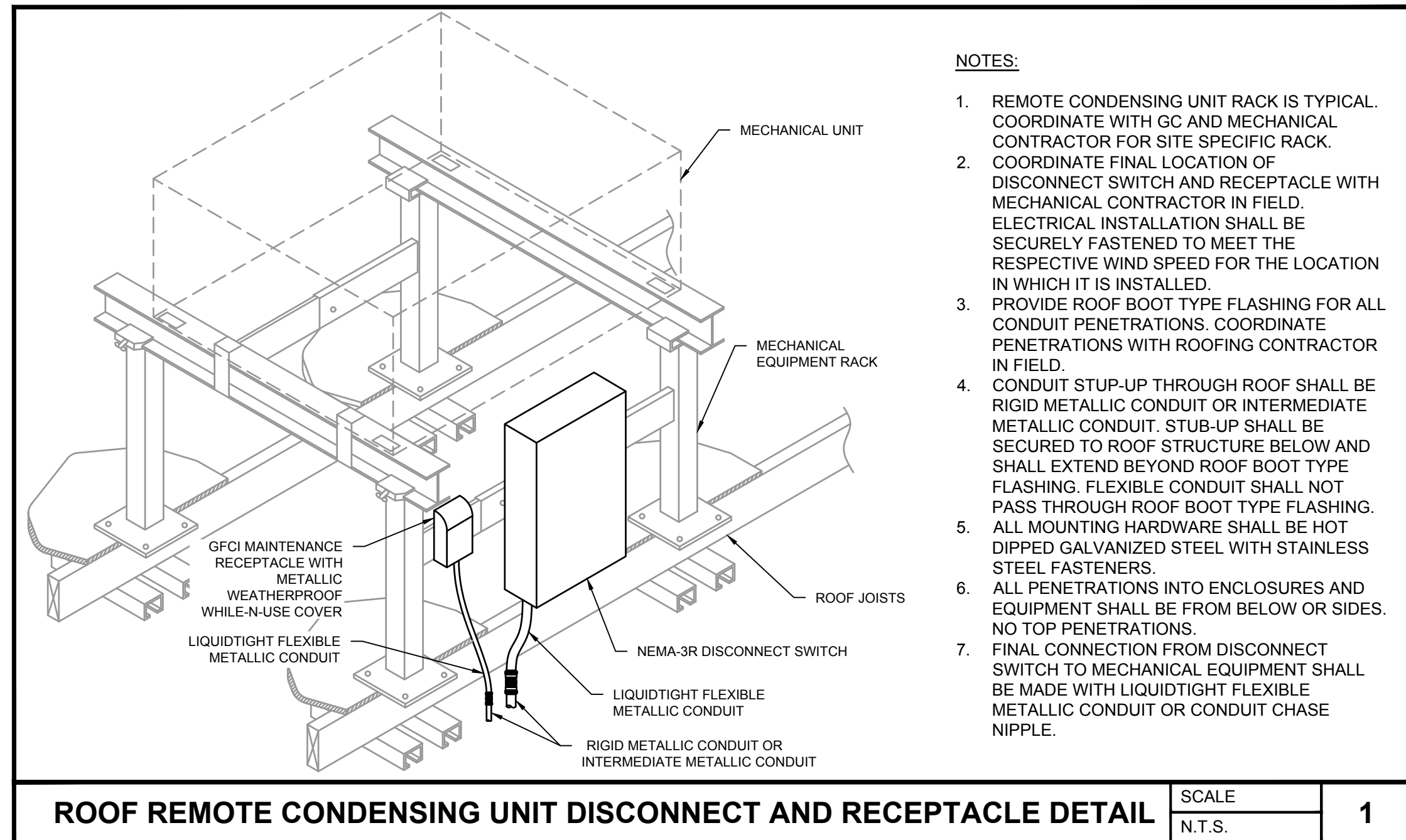
ITEM #	DESCRIPTION	MANUFACTURER	MODEL NUMBER	PHASE	VOLTAGE	AMPS	LOAD/W	CONNECTION TYPE	CIRCUIT #	MOUNTING HEIGHT (AFF)	REMARKS
88A	TV SCREEN	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-22(TIE)		
88B	TV SCREEN	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-22(TIE)		
88C	TV SCREEN	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-22(TIE)		
88D	TV SCREEN	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-22(TIE)		
35A	CUSTOMER KIOSK	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-11(TIE)		
35B	CUSTOMER KIOSK	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-11(TIE)		
35C	CUSTOMER KIOSK	AS PER OWNER		1	120	0.6	72	PLUG-IN	P4-11(TIE)		
58A	HAND DRYER	WORLD DRYER	VERDEDRI	1	120	12.2	1464	HARDWIRE	P3-23		
58B	HAND DRYER	WORLD DRYER	VERDEDRI	1	120	12.2	1464	HARDWIRE	P3-25		
58C	HAND DRYER	WORLD DRYER	VERDEDRI	1	120	12.2	1464	HARDWIRE	P3-27		
58D	HAND DRYER	WORLD DRYER	VERDEDRI	1	120	12.2	1464	HARDWIRE	P3-29		
71A	L-SHAPED COOLER - EVAPORATOR	RUSSELL	RL6A117AEA	1	120	1.6	192	HARDWIRED	P1-2(TIE)		
71B	L-SHAPED COOLER - EVAPORATOR	RUSSELL	RL6A117AEA	1	120	1.6	192	HARDWIRED	P1-2(TIE)		
71C	L-SHAPED COOLER - EVAPORATOR	RUSSELL	RL6A094AEA	1	120	1.6	192	HARDWIRED	P1-2(TIE)		
71D	L-SHAPED COOLER - EVAPORATOR	RUSSELL	RL6A094AEA	1	120	1.6	192	HARDWIRED	P1-2(TIE)		
71E	L-SHAPED COOLER - EVAPORATOR	RUSSELL	RL6A094AEA	1	120	1.6	192	HARDWIRED	P1-2(TIE)		
78A	HEATED DISPLAY MERCHANDISER	WASSERSTROM	6655	1	120	2.9	348	PLUG-IN	P2-6		
78B	HEATED DISPLAY MERCHANDISER	WASSERSTROM	6655	1	120	2.9	348	PLUG-IN	P2-8		
79A	2 SH STAND	BUNN	27875.0200	1	120	1.8	216	PLUG-IN	P2-10		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
79B	2 SH STAND	BUNN	27875.0200	1	120	1.8	216	PLUG-IN	P2-12		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
80	REHEATING UNIT	PITCO	SRTE14-GM	3	208	22	7926	PLUG-IN	P3-9,11,13		NEMA 15-50
87A	DELL MONITOR	22" KDS	E2216HV	1	120	0.6	72	PLUG-IN	P4-39(TIE)		
87B	DELL MONITOR	22" KDS	E2216HV	1	120	0.6	72	PLUG-IN	P4-39(TIE)		
91A	INSTANTANEOUS WATER HEATER [IWH-2]	EEMAX	AM010240T	1	208	36	7488	HARDWIRE	P3-32,34		
91B	INSTANTANEOUS WATER HEATER [IWH-2]	EEMAX	AM007240T	1	208	36	7488	HARDWIRE	P3-1,3		
92	INSTANTANEOUS WATER HEATER [IWH-5]	EEMAX	AM007240T	1	208	27.5	5720	HARDWIRE	P2-40,42		

ELECTRICAL EQUIPMENT SCHEDULE:

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NUMBER	PHASE	VOLTAGE	AMPS	LOAD/W	NEMA CONFIGURATION	CONNECTION TYPE	CIRCUIT #	MOUNTING HEIGHT (AFF)	REMARKS
1B	BEER CAVE REMOTE CONDENSING UNIT	RUSSELL	RFO300E4SEA	3	208	33.2	9569	-	HARDWIRED	P1-7,9,11	ROOF	
1C	BEER CAVE EVAPORATORS	RUSSELL	RE6E182DDA	1	208	15.0	3120	-	HARDWIRED	P1-8,10	DOWN FROM ABOVE	ELECTRIC DEFROST
1D1	COOLER DOOR HEATERS/LTS - RM 113	ANTHONY	1018 NT 30X75 DDOOR	1	120	4.80	576	-	HARDWIRED	P3-8	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
1D2	COOLER DOOR HEATERS/LTS - RM 113	ANTHONY	1018 NT 30X75 DDOOR	1	120	6.72	806	-	HARDWIRED	P3-10	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
1D3	FREEZER DOOR HEATERS/LTS - RM 112	ANTHONY	1018 LT 30X75 DDOOR	1	120	2.88	346	-	HARDWIRED	P3-12	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
1D4	BEER CAVE DOOR HEATERS/LTS - RM 118			1	120	2.88	346	-	HARDWIRED	P3-14	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
1F	3 DOOR FREEZER - REMOTE COND. UNIT	RUSSELL	RF0400145EB	3	208	31	11168	-	HARDWIRED	P1-13,15,17	ROOF	ELECTRIC DEFROST
1G	3 DOOR FREEZER - EVAPORATOR	RUSSELL	RL6E121DDA	1	208	15	3120	-	HARDWIRED	P1-14,16	DOWN FROM ABOVE	EC MOTOR, ELECTRIC DEFROST
1H1	WIF DOOR HEATER AND LIGHTS - RM 112			1	120	12.5	1500	-	HARDWIRED	P3-20		
1H2	WIC DOOR HEATER AND LIGHTS - RM 113			1	120	12.5	1500	-	HARDWIRED	P3-22		
1H3	STEP-IN COOLER DOOR HTR & LTS RM 105			1	120	12.5	1500	-	HARDWIRED	P3-24		
1H4	STEP-IN FREEZER DOOR HTR & LTS RM 104			1	120	12.5	1500	-	HARDWIRED	P3-26		
4A	BAG-N-BOX	AS PER OWNER		1	120	3	360	5-20	PLUG-IN	P4-34	+80"	
4B	BAG-N-BOX	AS PER OWNER		1	120	3	360	5-20	PLUG-IN	P4-36	+80"	
5A	FOUNTAIN DISPENSER	CORNELIUS	FLAVOR FUSION	1	120	9.3	1116	5-20	PLUG-IN	P2-14		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER. RECEPTACLE SHALL BE MOUNTED BEHIND THE UNIT IN THE STORAGE ROOM
5B	FOUNTAIN DISPENSER	CORNELIUS	FLAVOR FUSION	1	120	9.3	1116	5-20	PLUG-IN	P2-16		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER. RECEPTACLE SHALL BE MOUNTED BEHIND THE UNIT IN THE STORAGE ROOM
5C	FOUNTAIN DISPENSER	CORNELIUS	FLAVOR FUSION	1	120	9.3	1116	5-20	PLUG-IN	P2-18		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER. RECEPTACLE SHALL BE MOUNTED BEHIND THE UNIT IN THE STORAGE ROOM
6A	FUEL MANAGEMENT SYSTEM	AS PER OWNER		1	120	3	360	5-20	PLUG-IN	P4-42 (TIE)		
6B	FUEL MANAGEMENT SYSTEM	AS PER OWNER		1	120	3	360	5-20	PLUG-IN	P4-42 (TIE)		
6C	FUEL MANAGEMENT SYSTEM	AS PER OWNER		1	120	3	360	5-20	PLUG-IN	P4-42 (TIE)		
7A	CASH REGISTER	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	MV-2 (TIE)	UNDER COUNTER	CONNECTED TO MAC VICTOR UPS
7B	CASH REGISTER	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	MV-2 (TIE)	UNDER COUNTER	CONNECTED TO MAC VICTOR UPS
7C	CASH REGISTER	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	MV-3	UNDER COUNTER	CONNECTED TO MAC VICTOR UPS
8A	CREDIT CARD	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	-	UNDER COUNTER	PLUG INTO CASH REGISTER 7A RECEPTACLE
8B	CREDIT CARD	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	-	UNDER COUNTER	PLUG INTO CASH REGISTER 7B RECEPTACLE
8C	CREDIT CARD	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	-	UNDER COUNTER	PLUG INTO CASH REGISTER 7B RECEPTACLE
10	LOTT MACHINE	AS PER OWNER		1	120	1.67	200	5-20	PLUG-IN	P4-20		
11	UNDER COUNTER SAFE	ARMOR	CS 7100	1	120	3.33	400	5-20	PLUG-IN	P4-16	UNDER COUNTER	
11A	UNDER COUNTER SAFE	ARMOR	CS 7100	1	120	3.33	400	5-20	PLUG-IN	P4-24	UNDER COUNTER	
13A	TEA BREWER	BUNN	ITB-DBC DUAL	1	120	14	1680	5-20	PLUG-IN	P2-20		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER. 2WIRES PLUS GND
13B	TEA BREWER	BUNN	ITB-DBC DUAL	1	120	14	1680	5-20	PLUG-IN	P2-22		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER. 2WIRES PLUS GND
17	CAPPUCCINO MACHINE	BUNN	IMIX-5	1	120	15	1800	5-20	PLUG-IN	P2-23		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER. 2WIRES PLUS GND
18A	COFFEE BREWER	OWNER PROVIDED		1	208	20	4160	-	PLUG-IN	P2-28,30		EC TO COORDINATE WITH MANUFACTURER FOR CIRCUIT BREAKER SIZE PRIOR TO INSTALLATION. REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
18B	COFFEE BREWER	OWNER PROVIDED		1	208	20	4160	-	PLUG-IN	P2-32,34		EC TO COORDINATE WITH MANUFACTURER FOR CIRCUIT BREAKER SIZE PRIOR TO INSTALLATION. REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
19	HEATED DISPLAY CASE	HATCO	GRSDS-36T	1	120	15	1752	L14-20	PLUG-IN	P1-1		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
20A	MICROWAVE	VOLLRATH	MWA7025	1	120	12.1	1452	5-20	PLUG-IN	P2-37		
20B	MICROWAVE	VOLLRATH	MWA7025	1	120	12.1	1452	5-20	PLUG-IN	P2-39		
21A	RAPID-COOK OVEN	OVENTION	MISA-A12	1	208	30	5200	6-30	PLUG-IN	P2-7,9		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
21B	RAPID-COOK OVEN	OVENTION	MISA-A12	1	208	30	5200	6-30	PLUG-IN	P2-11,13		
22A	GONDOLA RECEPTACLE			1	120	3	360	5-20	PLUG-IN	P4-26	FLOOR	
22B	GONDOLA RECEPTACLE			1	120	3	360	5-20	PLUG-IN	P4-28	FLOOR	
22C	GONDOLA RECEPTACLE			1	120	3	360	5-20	PLUG-IN	P4-30	FLOOR	
23	ICE MAKER	HOSHIZAKI	KM-1601SRH	1	208	12.8	2662	-	HARDWIRED	P1-31,33		3 WIRE WITH NEUTRAL
24	ICE MAKER CONDENSER	HOSHIZAKI	URC-22F	1	120	-	-	-	HARDWIRED	P1-33	ROOF	POWER PROVIDED FROM ICE MAKER [23]
25	ICE BAGGER	KLOPPENBERG	DISP-1000	1	120	8.8	1056	5-20	PLUG-IN	P3-21		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
26	ATM - ANY CARD	AS PER OWNER		1	120	11.5	1380	5-20	PLUG-IN	P4-1		COORDINATE WITH EQUIP. MANUF. FOR RECEPTACLE REQUIREMENTS
27	PIZZA PREPARATION REFRIGERATOR	TRAUSLEN	TB046SL3S	1	115	10	1200	5-15	PLUG-IN	P4-21		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
29	FROZEN CARBONATED BEV MC	BUNN	34000 0520	1	120	12	1440	5-20	PLUG-IN	P4-23		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
31	POT AND PAN WASHER	POWER SOAK		1	208	8.8	1630	-		P4-25,27		COORDINATE WITH EQUIP. MANUF. FOR RECEPTACLE REQUIREMENTS
33A	HOT DOG GRILL	STAR	75SCBDE	1	120	14.4	1728	5-20	PLUG-IN	P2-36		
33B	HOT DOG GRILL	STAR	75SCBDE	1	120	14.4	1728	5-20	PLUG-IN	P2-38		
36	SANDWICH PREP	BEVERAGE-AIR	SPEZ7HC-12M-B	1	120	2	240	5-20	PLUG-IN	P2-19		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
37	REFRIGERATED COUNTER DISPLAY	VOLLRATH	40862	1	120	3.9	468	5-20	PLUG-IN	P4-29		
38	HEATED DISPLAY CASE	ALTO SHAM	ED2-48-SS	1	208	13.3	3300	L14-20	PLUG-IN	P4-31,33		
39A	ICE MAKER	HOSHIZAKI	FD-1002MAJ-C	1	120	13.7	1644	-	HARDWIRED	P1-35 (TIE)		
39B	ICE MAKER	HOSHIZAKI	FD-1002MAJ-C	1	120	13.7	1644	-	HARDWIRED	P1-37 (TIE)		
39C	ICE MAKER	HOSHIZAKI	FD-1002MAJ-C	1	120	13.7	1644	-	HARDWIRED	P1-39 (TIE)		
40A	ICE MAKER CONDENSER	HOSHIZAKI	URC-5F	1	120	-	-	-	HARDWIRED	P1-35 (TIE)		POWER SUPPLIED FROM ICE MAKER[39A]
40B	ICE MAKER CONDENSER	HOSHIZAKI	URC-5F	1	120	-	-	-	HARDWIRED	P1-37 (TIE)		POWER SUPPLIED FROM ICE MAKER[39B]
40C	ICE MAKER CONDENSER	HOSHIZAKI	URC-5F	1	120	-	-	-	HARDWIRED	P1-39 (TIE)		POWER SUPPLIED FROM ICE MAKER[39C]
43	BOHA FOOD LABEL MAKER	TRANSACT	ACCUDATE 9700	1	120	10	1200	5-20	PLUG-IN	P4-35		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
44	HUSSMAN REMOTE CONDENSING UNIT	KRACK	HTST-020PMSDT	1	208	16.03	3335	-	HARDWIRED	P2-27,29	ROOF	
46A	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204	-	PLUG-IN	P4-37 (TIE)		
46B	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204	-	PLUG-IN	P4-37 (TIE)		
46C	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204	-	PLUG-IN	P4-37 (TIE)		
46C	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204	-	PLUG-IN	P4-37 (TIE)		
47	MULTI-DECK MERCHANDISER (MEDIUM TEMP)	HUSSMAN	IM-05-EN4-R	1	120	1.2	144	-	HARDWIRED	P1-38		END PIECE
48	REF. PIZZA PREP TABLE	BEVERAGE-AIR	DPD67HC-4	1	120	-	-	5-20	PLUG-IN	P1-6		
49A	ICE MECHANISER	POLAR TEMP	600AD	1	120	7.2	864	5-20	PLUG-IN	P1-24		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
49B	ICE MECHANISER	POLAR TEMP	600AD	1	120	7.2	864	5-20	PLUG-IN	P1-26		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
50	GAS TANKLESS WATER HEATER - [GWH-1]	RHEEM	RTGH-CM95DVL	1	120	4	480	-	HARDWIRED	P4-21	ADJACENT TO UNIT	
53	HEATED DISPLAY CASE	ALTO SHAM	HSM-36/5S/T	1	208	16.7	3474	-	HARDWIRED	P2-15,17		
55	DRINKING WATER FOUNTAIN	ELKAY	EZ5TL8C	1	120	3	360	5-20	PLUG-IN	P4-12		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
56	GAS DUAL FRYER	PITCO	SSH75-2FD	1	120	4	831	-	HARDWIRED	P2-4		
57A	WATER HEATER - [IWH-3]	EEMAX ACCUMIX	AM0005240T	1	208	17	3536	-	HARDWIRED	MDP-40,42	ADJACENT TO UNIT	
57B	WATER HEATER - [IWH-3]	EEMAX ACCUMIX	AM0005240T	1	208	17	3536	-	HARDWIRED	MDP-37,39	ADJACENT TO UNIT	
57C	WATER HEATER - [IWH-3]	EEMAX ACCUMIX	AM0005240T	1	208	17	3536	-	HARDWIRED	P3-5,7	ADJACENT TO UNIT	
57D	WATER HEATER - [IWH-3]	EEMAX ACCUMIX	AM0005240T	1	208	17	3536	-	HARDWIRED	P3-15,17	ADJACENT TO UNIT	
57E	WATER HEATER - [IWH-3]	EEMAX ACCUMIX	AM0005240T	1	208	17	3536	-	HARDWIRED	P2-24,26	ADJACENT TO UNIT	
59	STEP-IN FREEZER - CONDENSING UNIT	RUSSELL	RFO300L4SEA	3	208	22.9	6600	-	HARDWIRED	P1-25,27,29		END PIECE
60	DROP-IN HOT WALL	ALTO-SHAM	300HW D6	1	208	6.5	1352	-	HARDWIRED	P1-3,5		
63	EASIWASH WASH SYSTEM			1	208	19.2	3994	6-30	PLUG-IN	P3-28,30		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
65	CONVECTION OVEN	OVENTION	DOUBLE MILO-16	3	208	38	7904					



ELECTRICAL ROOF PLAN - CONVENIENCE STORE SCALE 1/4" = 1'-0"



- NOTES:**
1. REMOTE CONDENSING UNIT RACK IS TYPICAL. COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR SITE SPECIFIC RACK.
 2. COORDINATE FINAL LOCATION OF DISCONNECT SWITCH AND RECEPTACLE WITH MECHANICAL CONTRACTOR IN FIELD. ELECTRICAL INSTALLATION SHALL BE SECURELY FASTENED TO MEET THE RESPECTIVE WIND SPEED FOR THE LOCATION IN WHICH IT IS INSTALLED.
 3. PROVIDE ROOF BOOT TYPE FLASHING FOR ALL CONDUIT PENETRATIONS. COORDINATE PENETRATIONS WITH ROOFING CONTRACTOR IN FIELD.
 4. CONDUIT STUP-UP THROUGH ROOF SHALL BE RIGID METALLIC CONDUIT OR INTERMEDIATE METALLIC CONDUIT. STUB-UP SHALL BE SECURED TO ROOF STRUCTURE BELOW AND SHALL EXTEND BEYOND ROOF BOOT TYPE FLASHING. FLEXIBLE CONDUIT SHALL NOT PASS THROUGH ROOF BOOT TYPE FLASHING.
 5. ALL MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL WITH STAINLESS STEEL FASTENERS.
 6. ALL PENETRATIONS INTO ENCLOSURES AND EQUIPMENT SHALL BE FROM BELOW OR SIDES. NO TOP PENETRATIONS.
 7. FINAL CONNECTION FROM DISCONNECT SWITCH TO MECHANICAL EQUIPMENT SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT OR CONDUIT CHASE NIPPLE.

SCALE N.T.S. 1

- GENERAL NOTES:**
1. ALL CONTROL & POWER WIRING SHALL BE COORDINATED WITH EQUIPMENT SUPPLIERS.
 2. FINAL LOCATION OF EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR.
 3. VERIFY NUMBER & SIZES OF CONDENSER UNITS WITH EQUIPMENT SUPPLIERS.

- KEYED NOTES:**
- ① DISCONNECT: DISCONNECT FURNISHED WITH UNIT.
 - ② ROOF MAINTENANCE RECEPTACLE: WEATHER RESISTANT GFCI DUPLEX RECEPTACLE IN WEATHERPROOF SURFACE MOUNTED METAL BELL BOX WITH METALLIC "IN-USE" COVER MOUNT ADJACENT TO DISCONNECT.
 - ③ REMOTE CONDENSER DISCONNECT: MOUNT 240V, NEMA-3R, HEAVY DUTY, NON-FUSIBLE DISCONNECT SWITCH ON RACK AT LOCATION DETERMINED BY EQUIPMENT INSTALLER. ROUTE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT TO UNIT AS REQUIRED.
 - ④ PHOTOCELL FOR CEFCO: PROVIDE 1/2" CONDUIT FROM PROPOSED PHOTOCELL LOCATION TO CPI UNITIZED GEAR FOR SITE LIGHTING CONTROLS. INSTALL A 2 WIRE SHIELDED CABLE. REFER TO CPI UNITIZED GEAR SUBMITTALS.
 - ⑤ REMOTE ICE MAKER CONDENSER: PROVIDE WEATHERPROOF 1P-20A MOTOR RATED SWITCH MOUNTED ON CONDENSER.
 - ⑥ REMOTE CONDENSER FUSIBLE DISCONNECT: MOUNT 240V, NEMA-3R, HEAVY DUTY, FUSIBLE DISCONNECT SWITCH ON RACK AT LOCATION DETERMINED BY EQUIPMENT INSTALLER. ROUTE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT TO UNIT AS REQUIRED. PROVIDE FUSES FOR DISCONNECT PER UNIT NAMEPLATE MAXIMUM OVERCURRENT PROTECTION (MOCp).

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/17/2023

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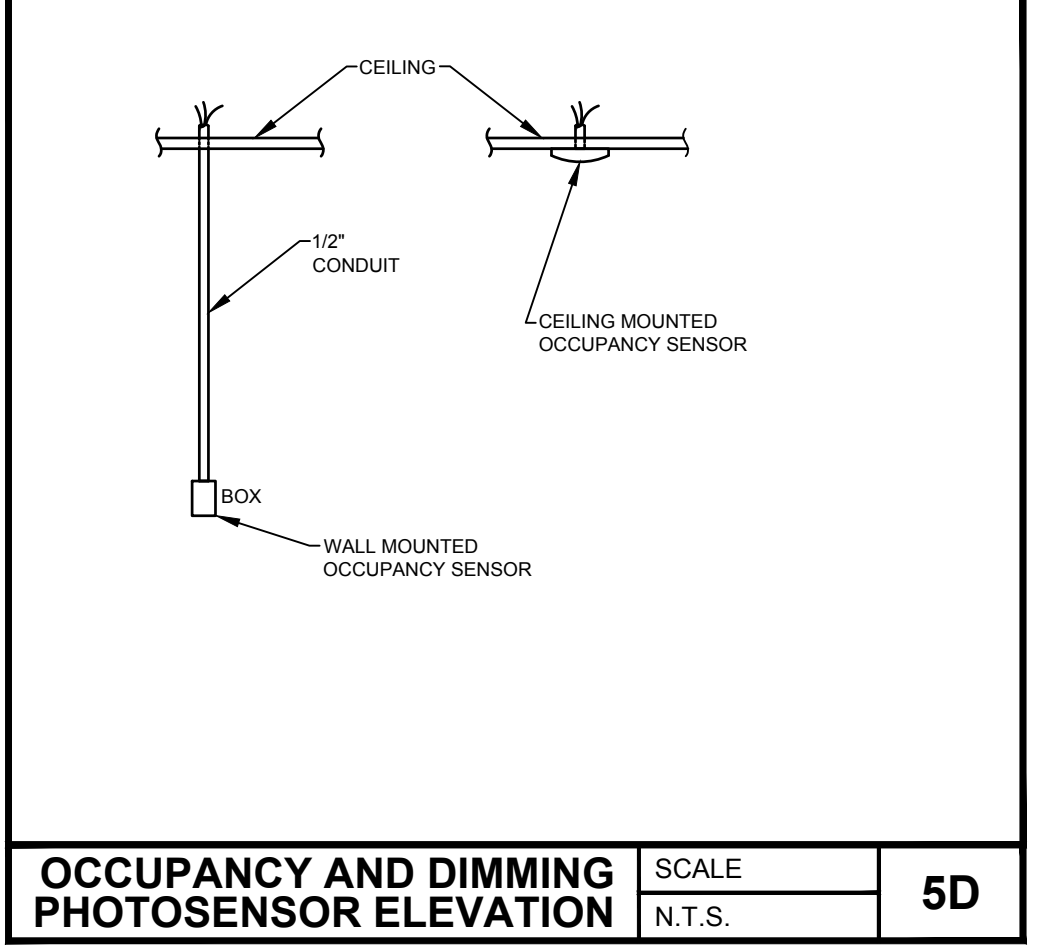
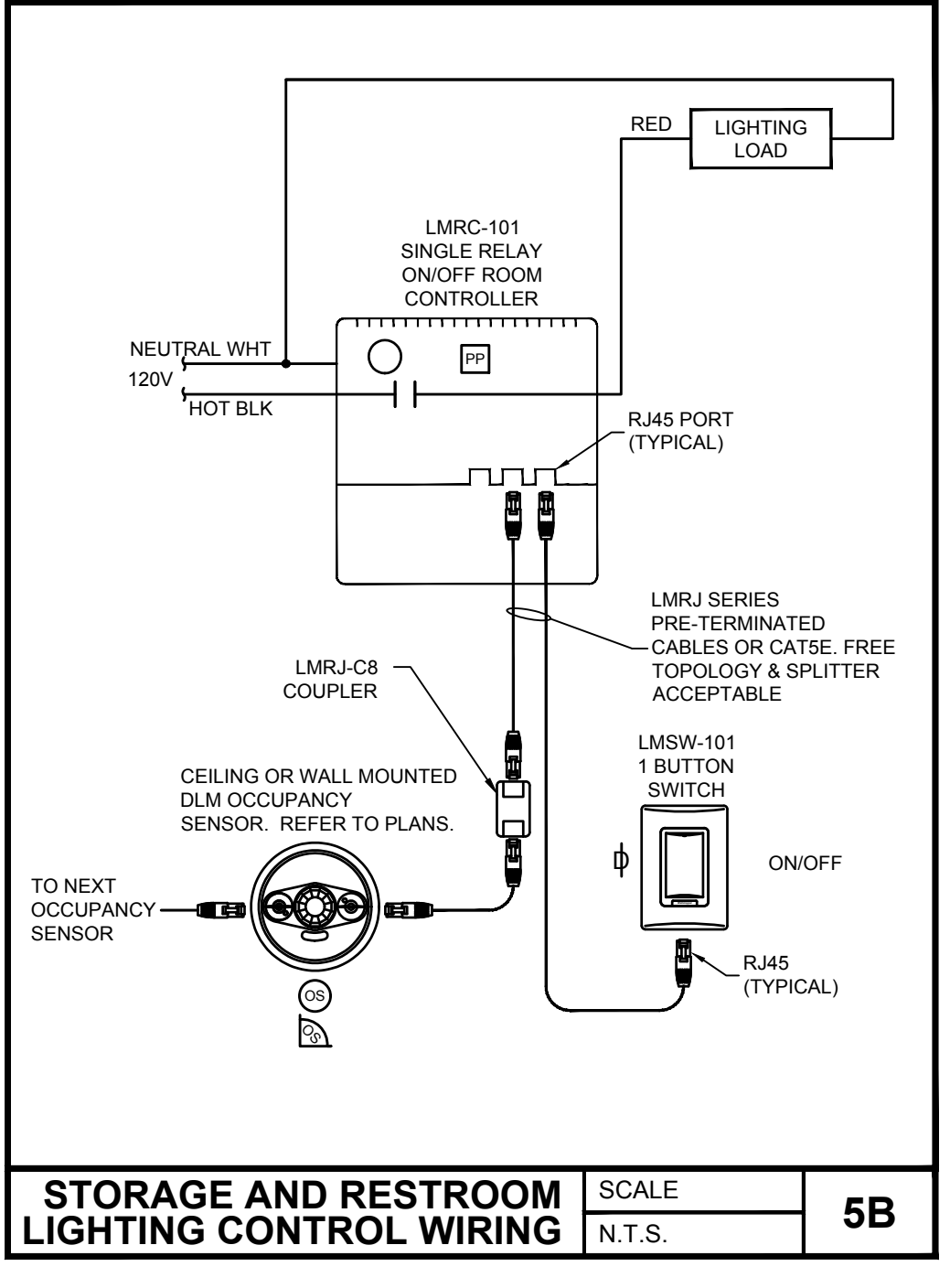
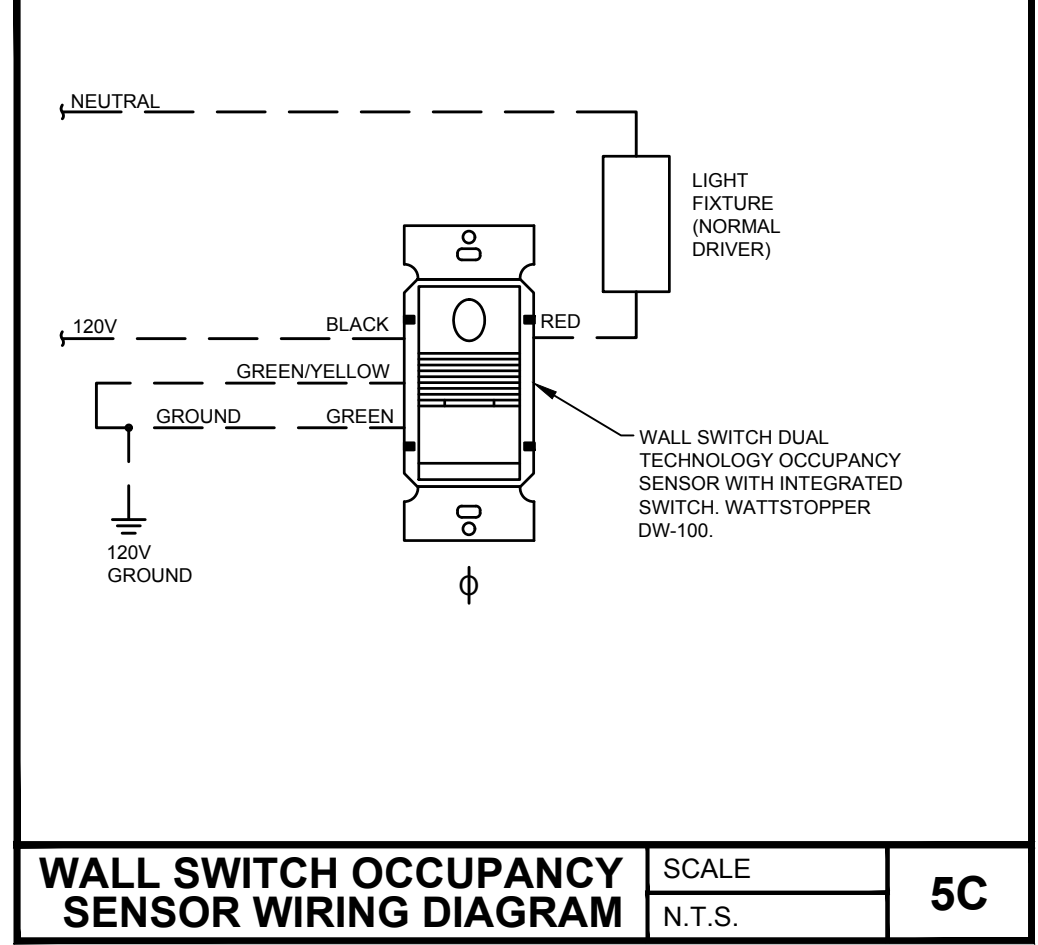
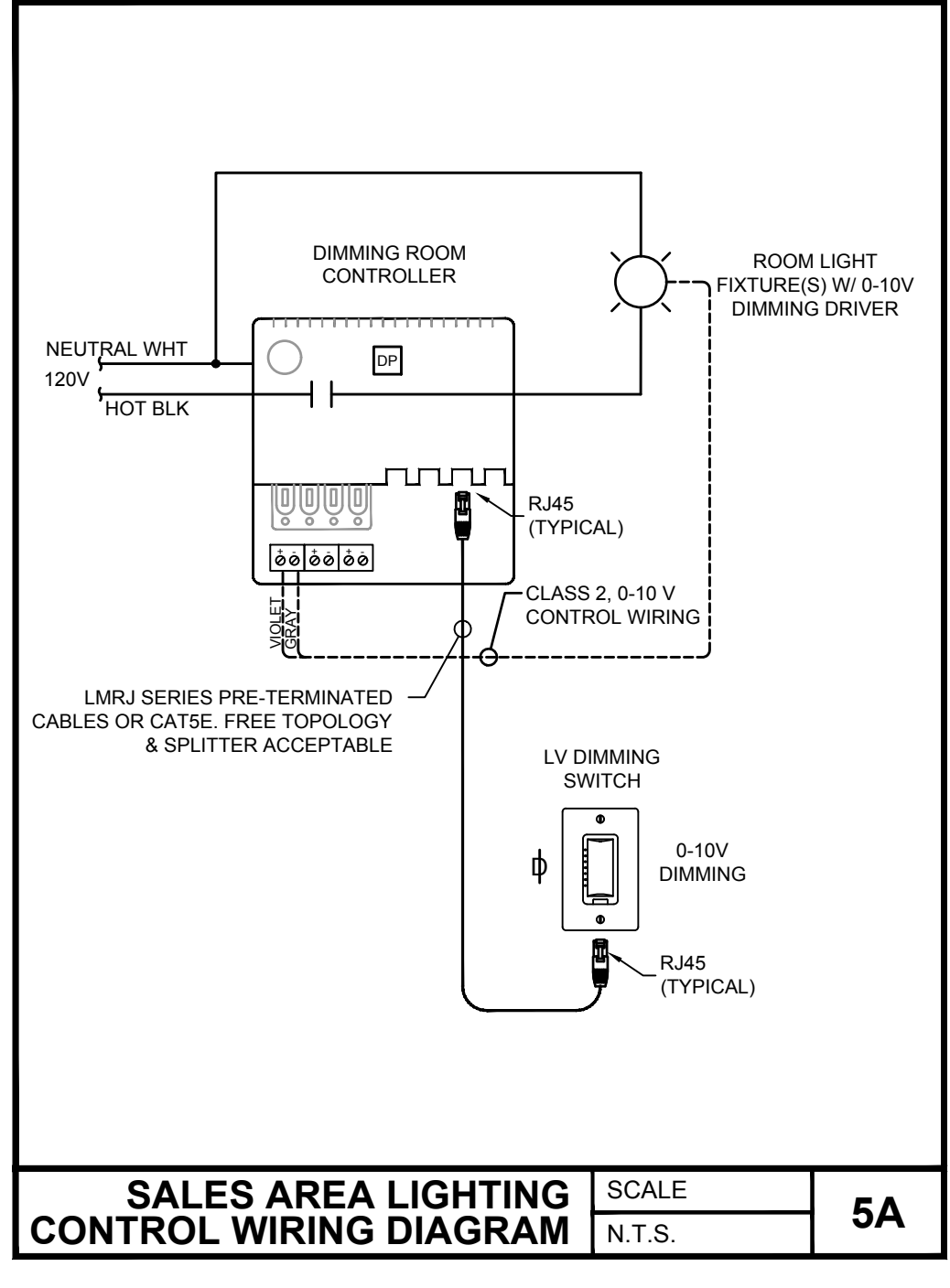
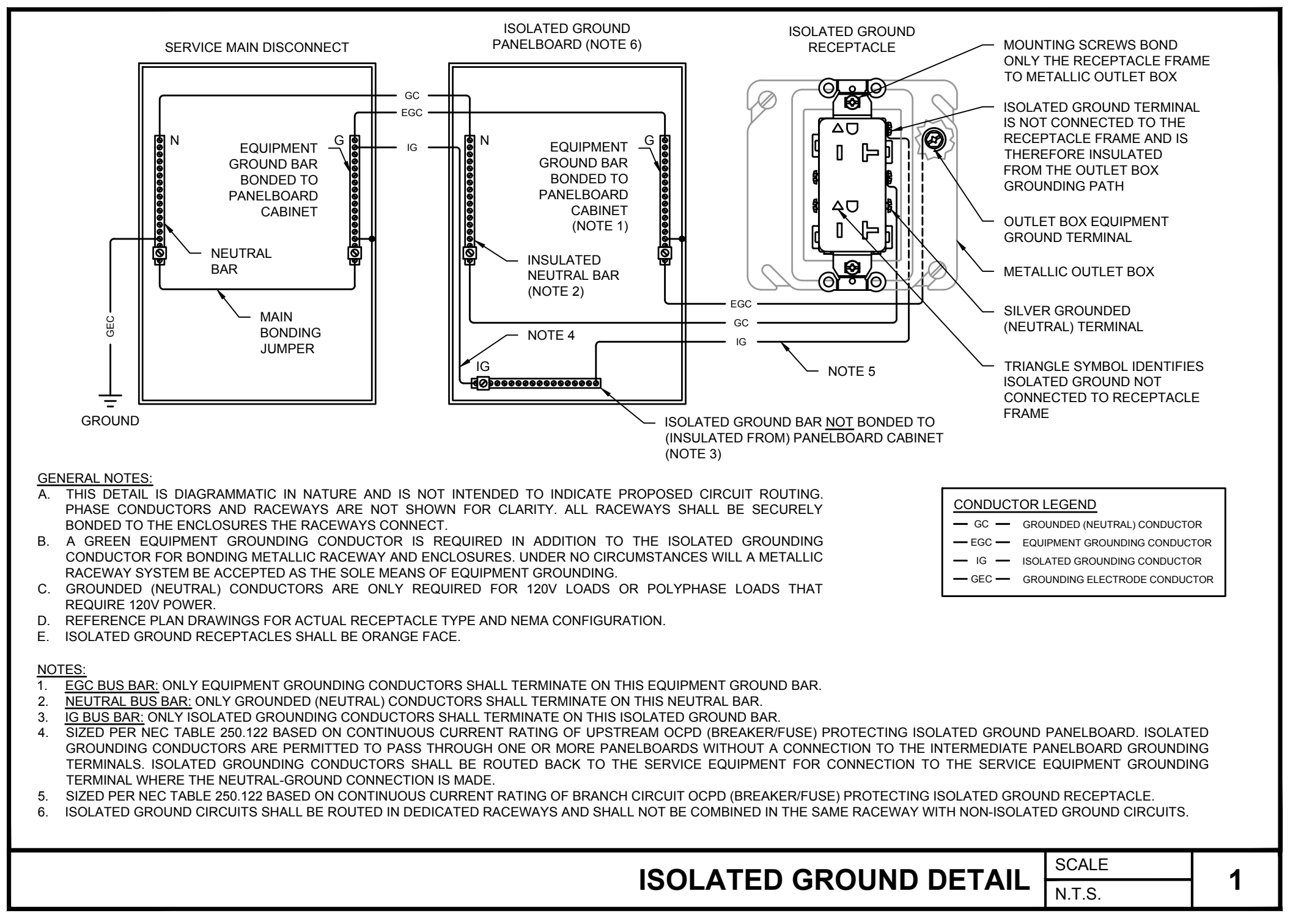
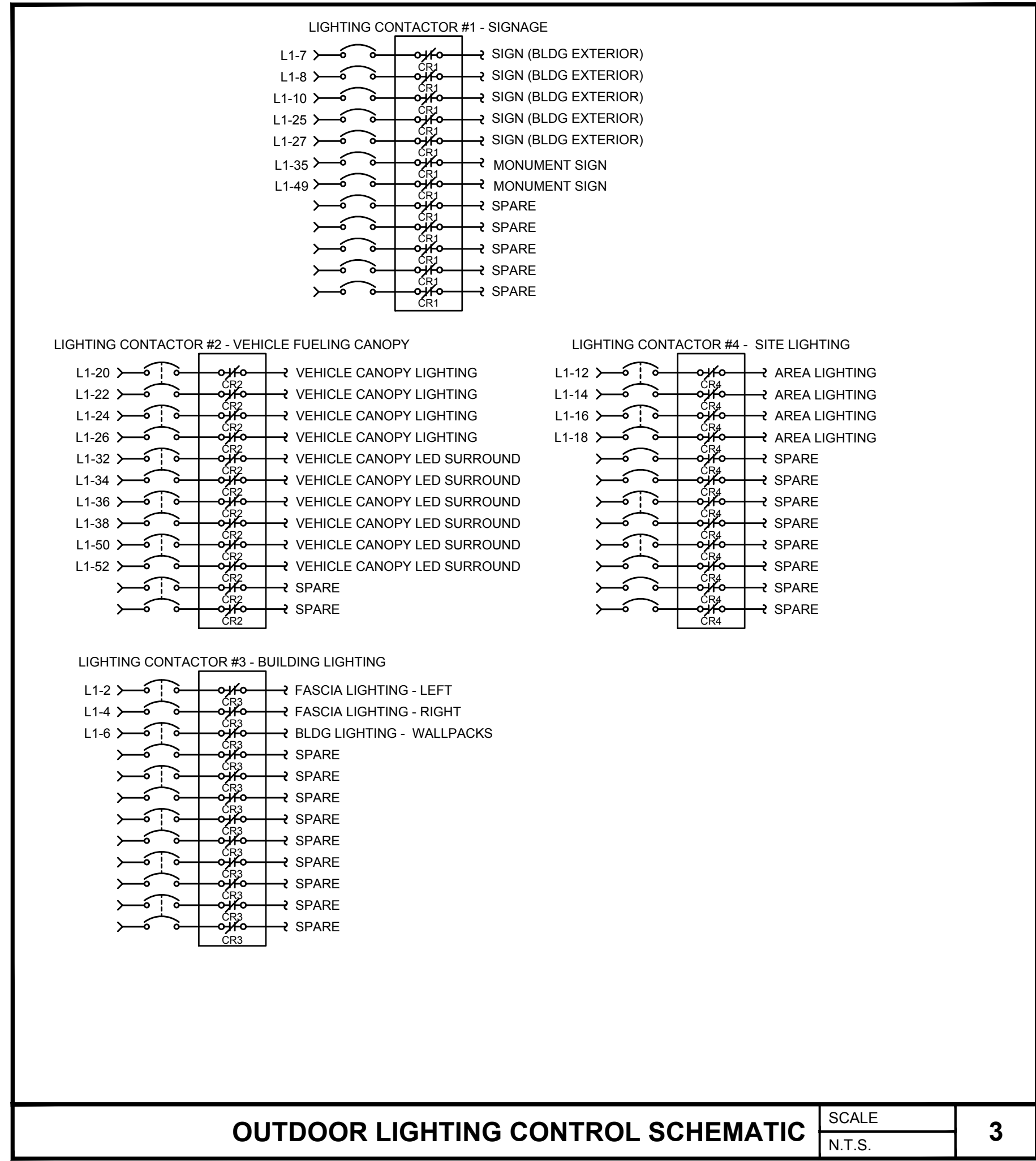
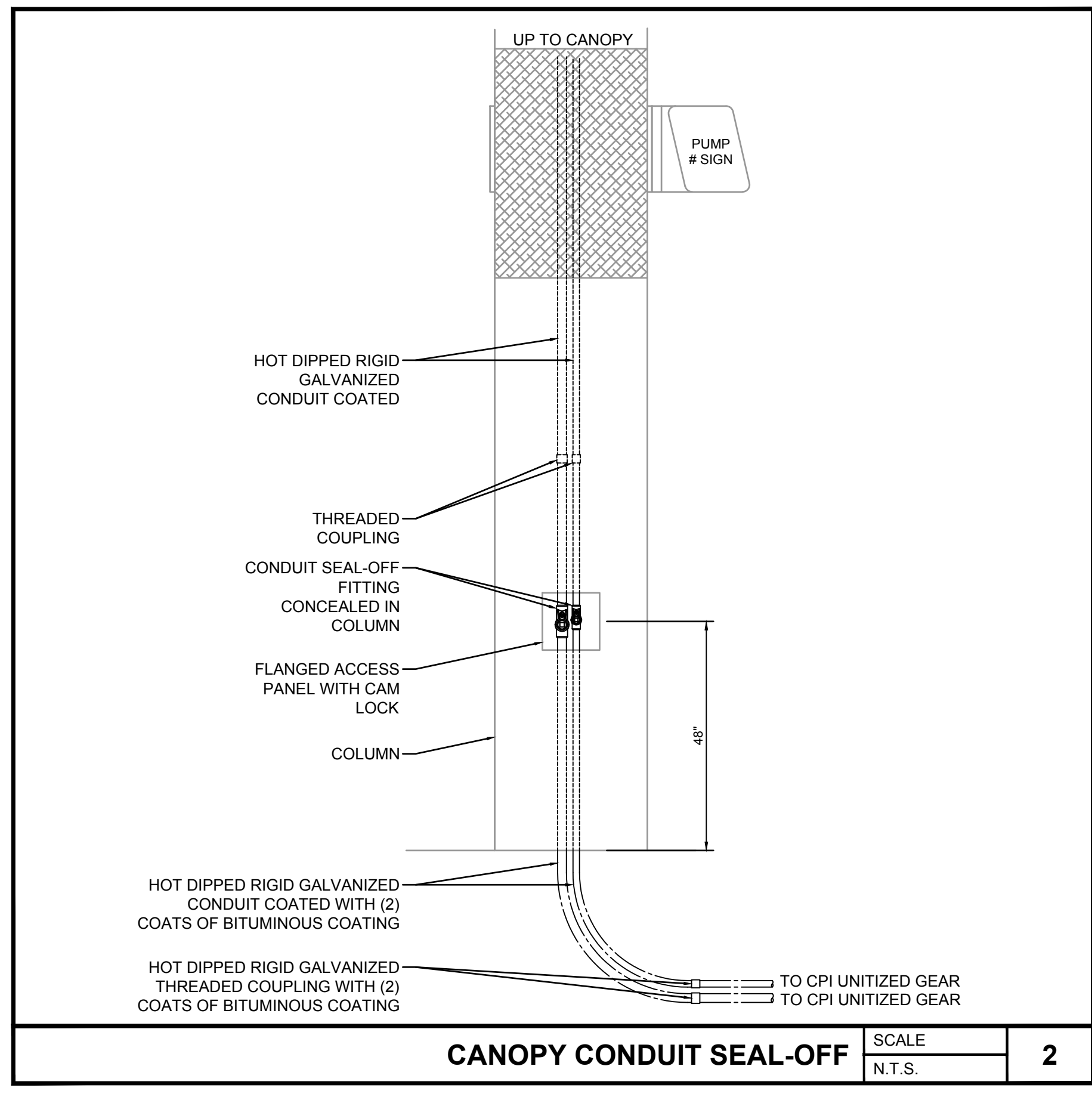
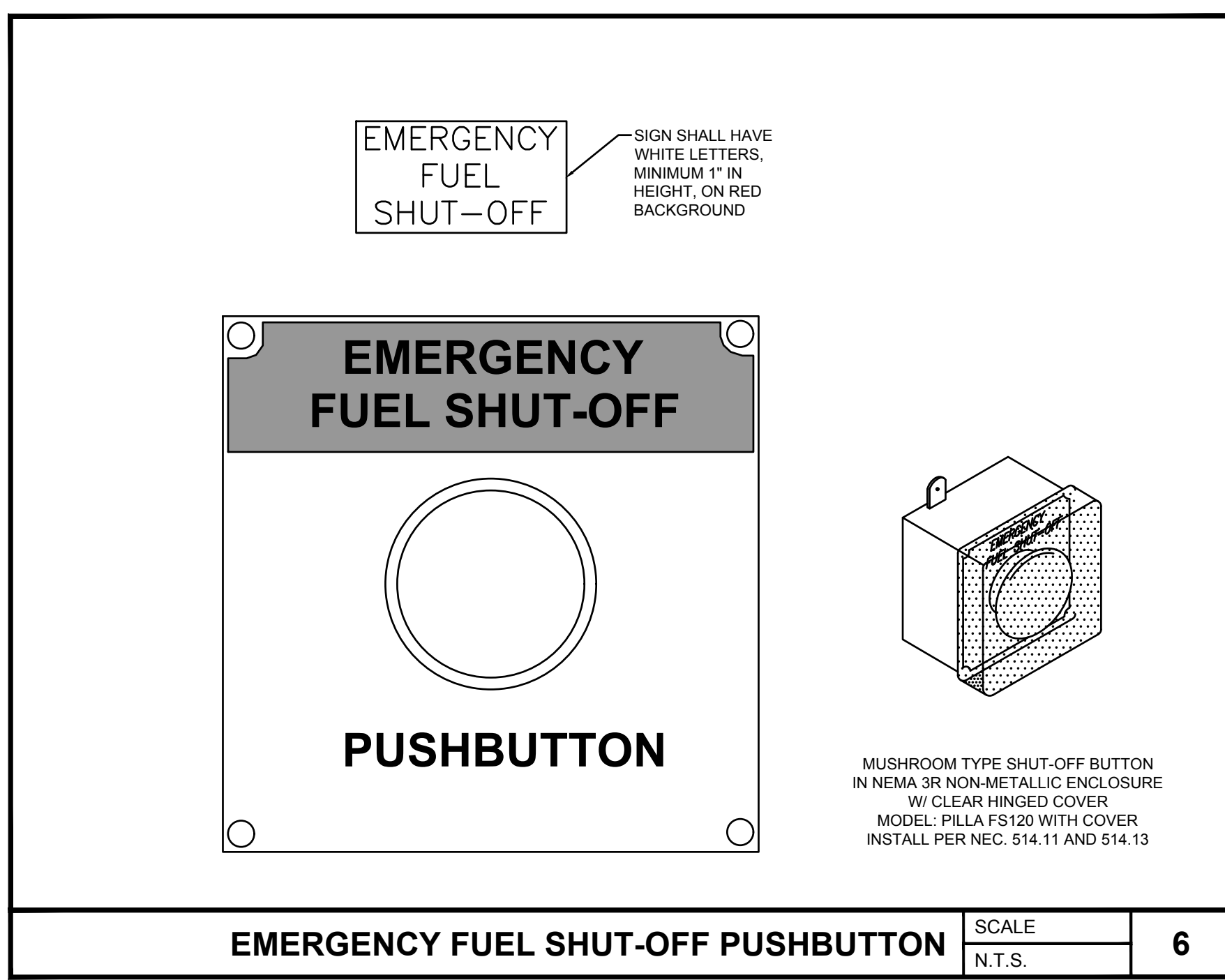
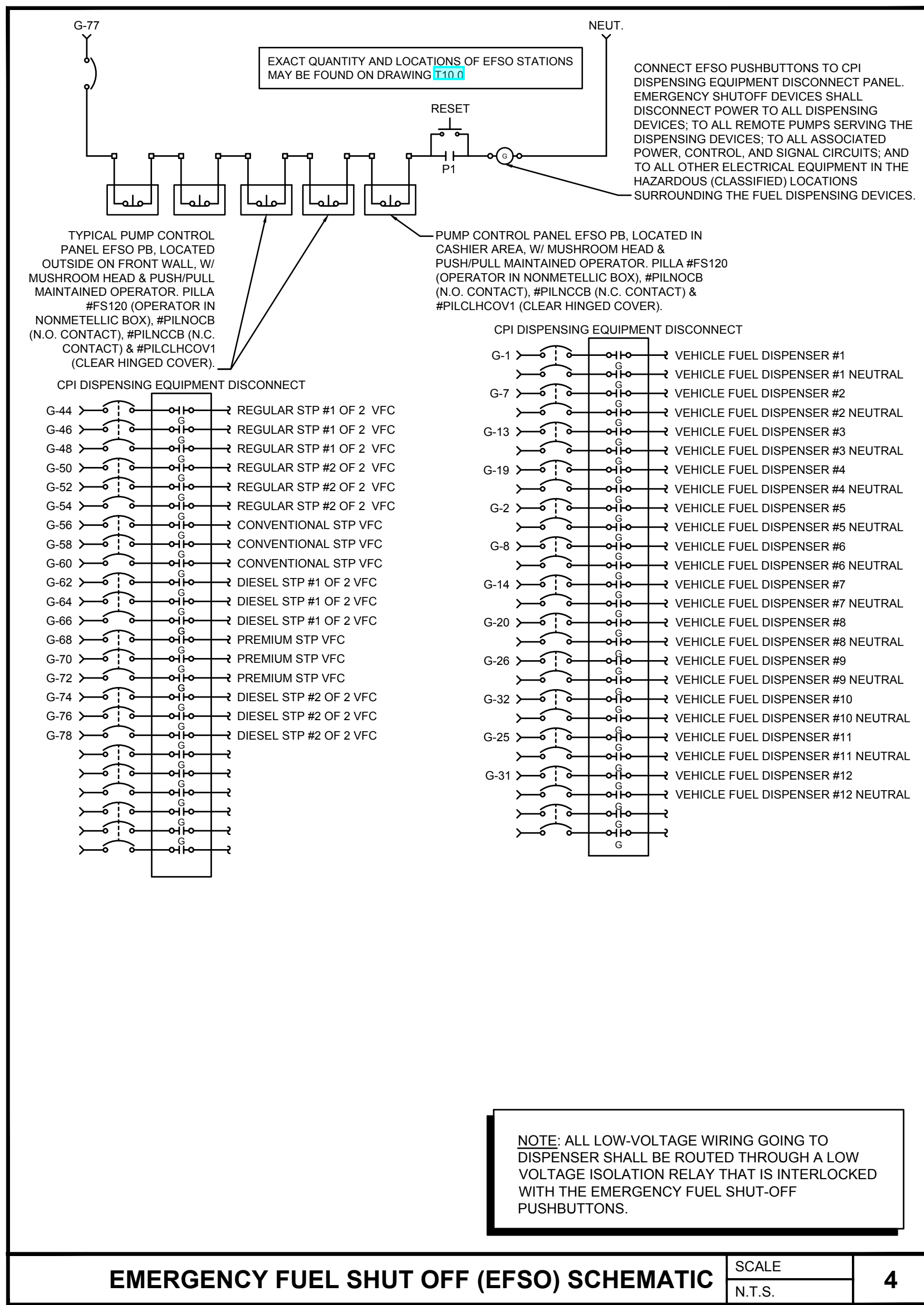
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
CEFCO ELECTRICAL ROOF PLAN

Project No. 170-95.00
 Drawn By: _____
 Checked By: _____

Sheet No. **E4.0**



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03/17/2023	Issue Client Comments - REV 1
2	Issue For Permit
1	Revise/Issue
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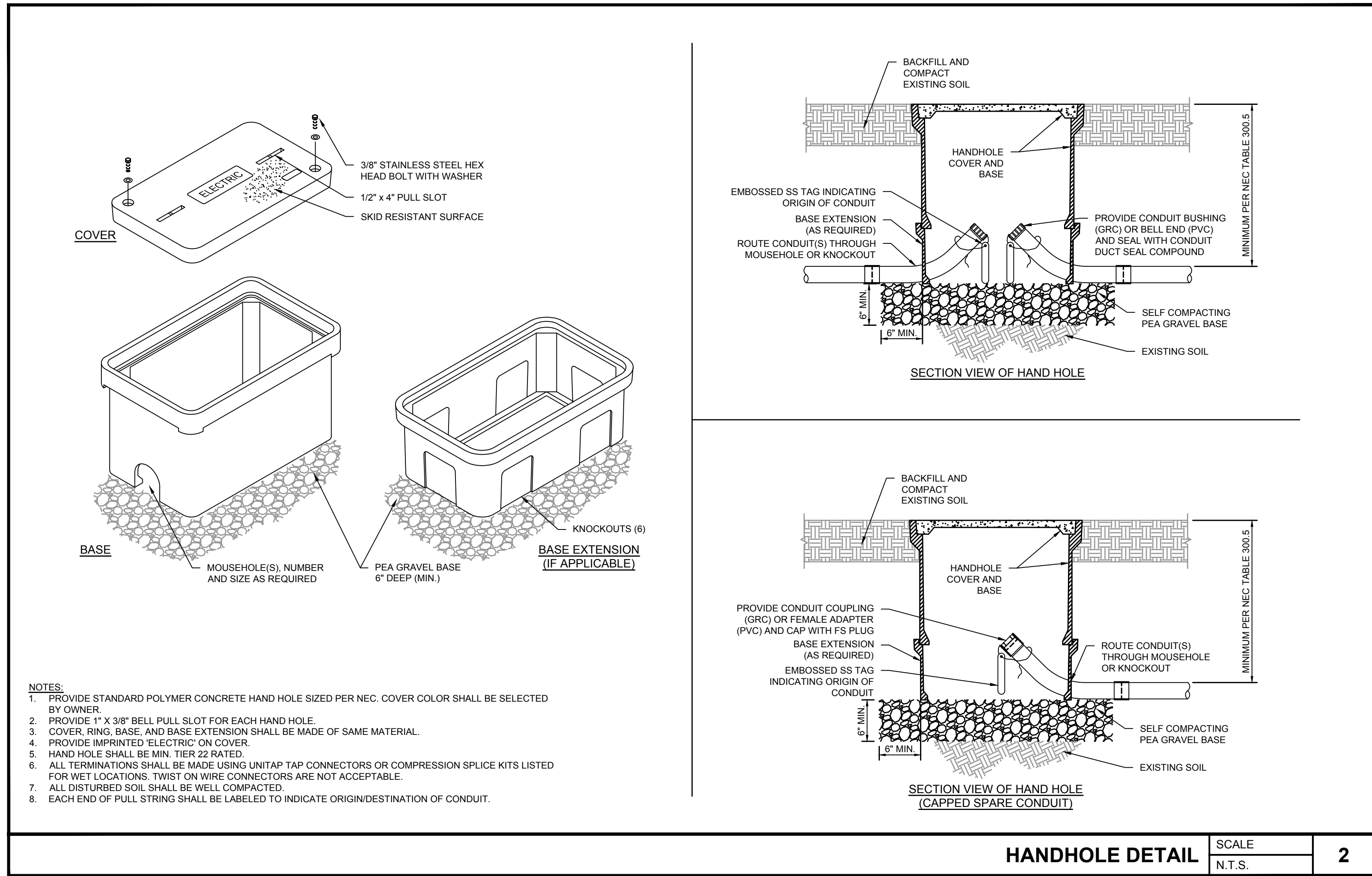
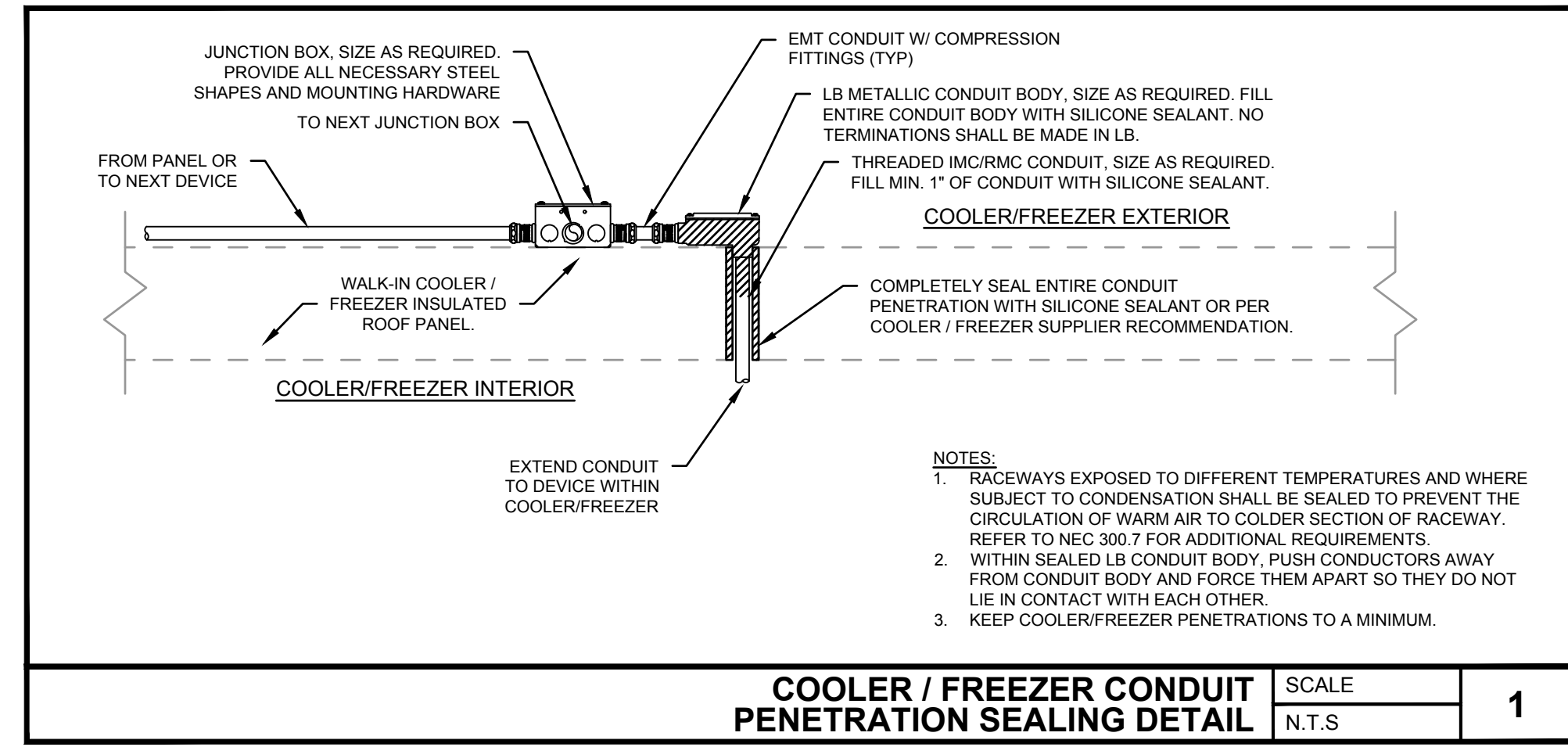
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
ELECTRICAL DETAILS

Project No. 170-95.00
Sheet E5.0
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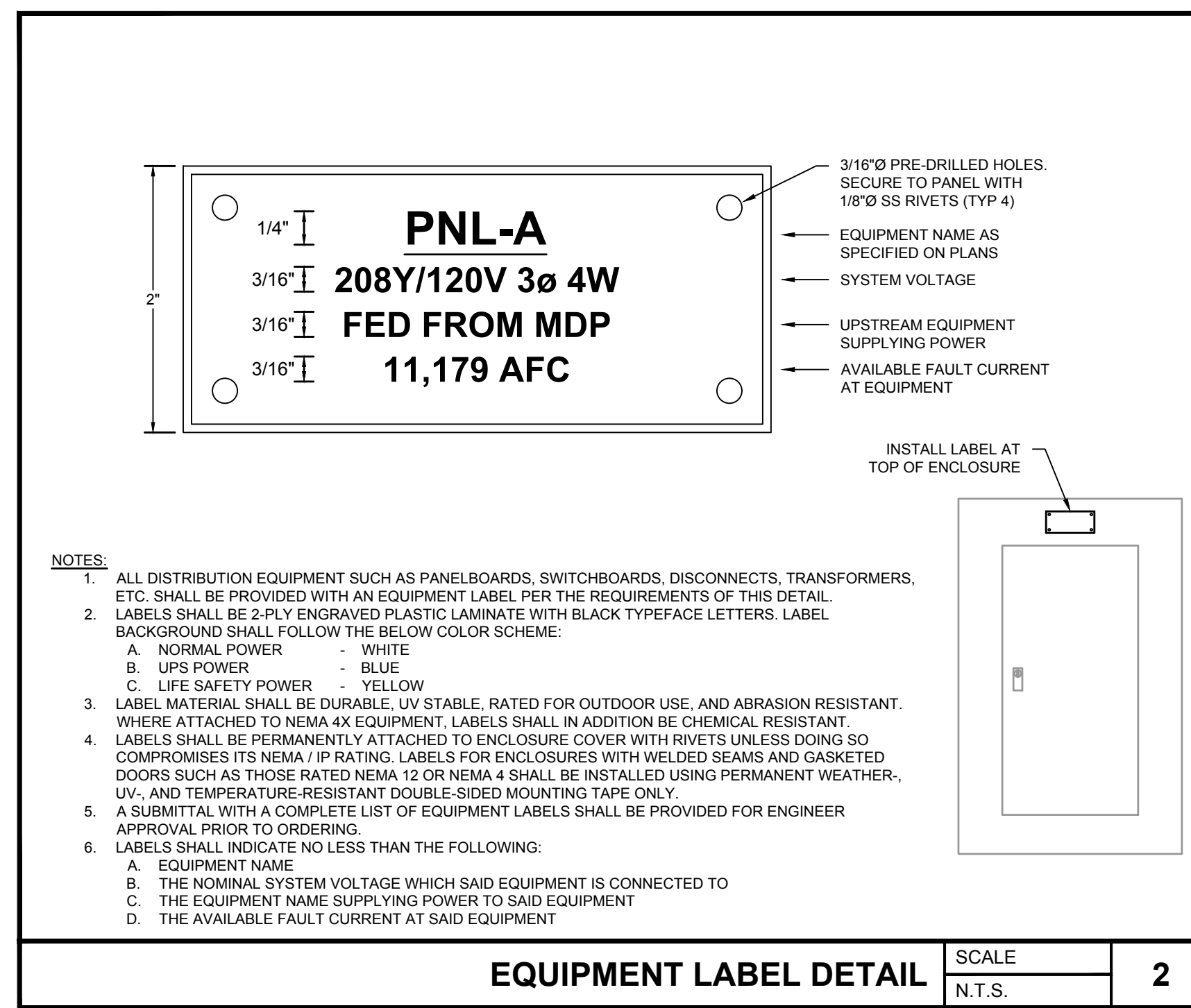
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 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

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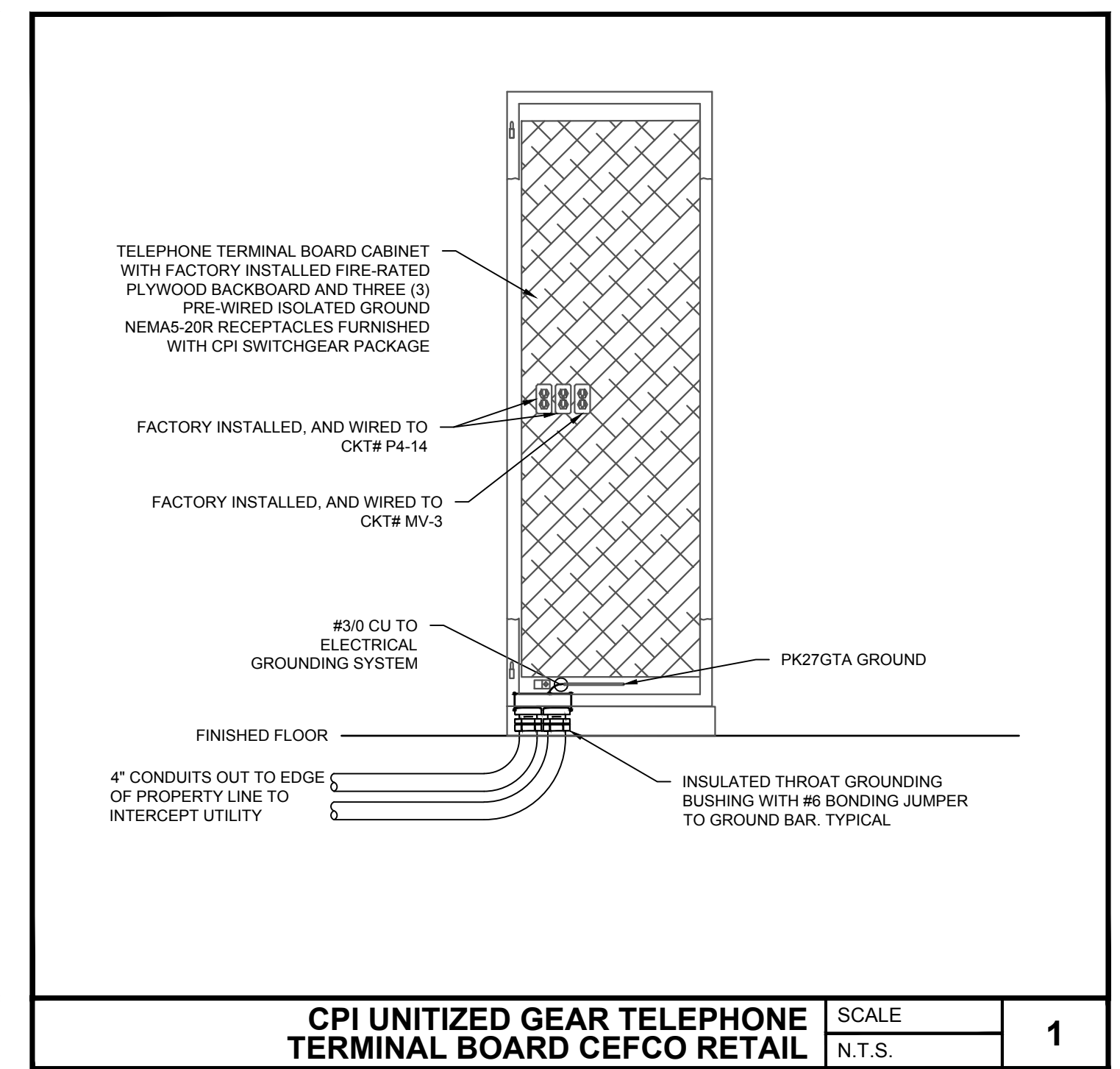
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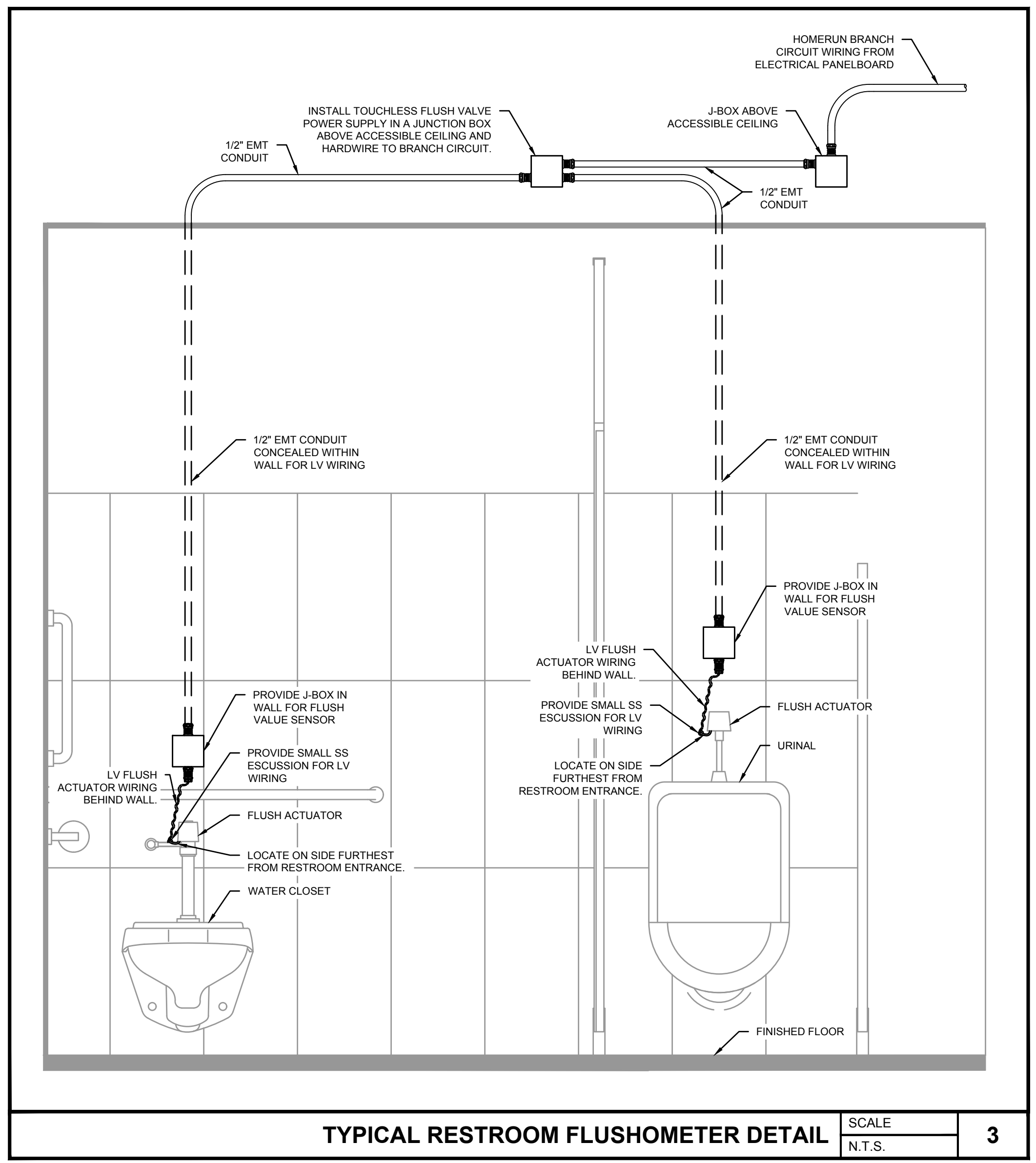
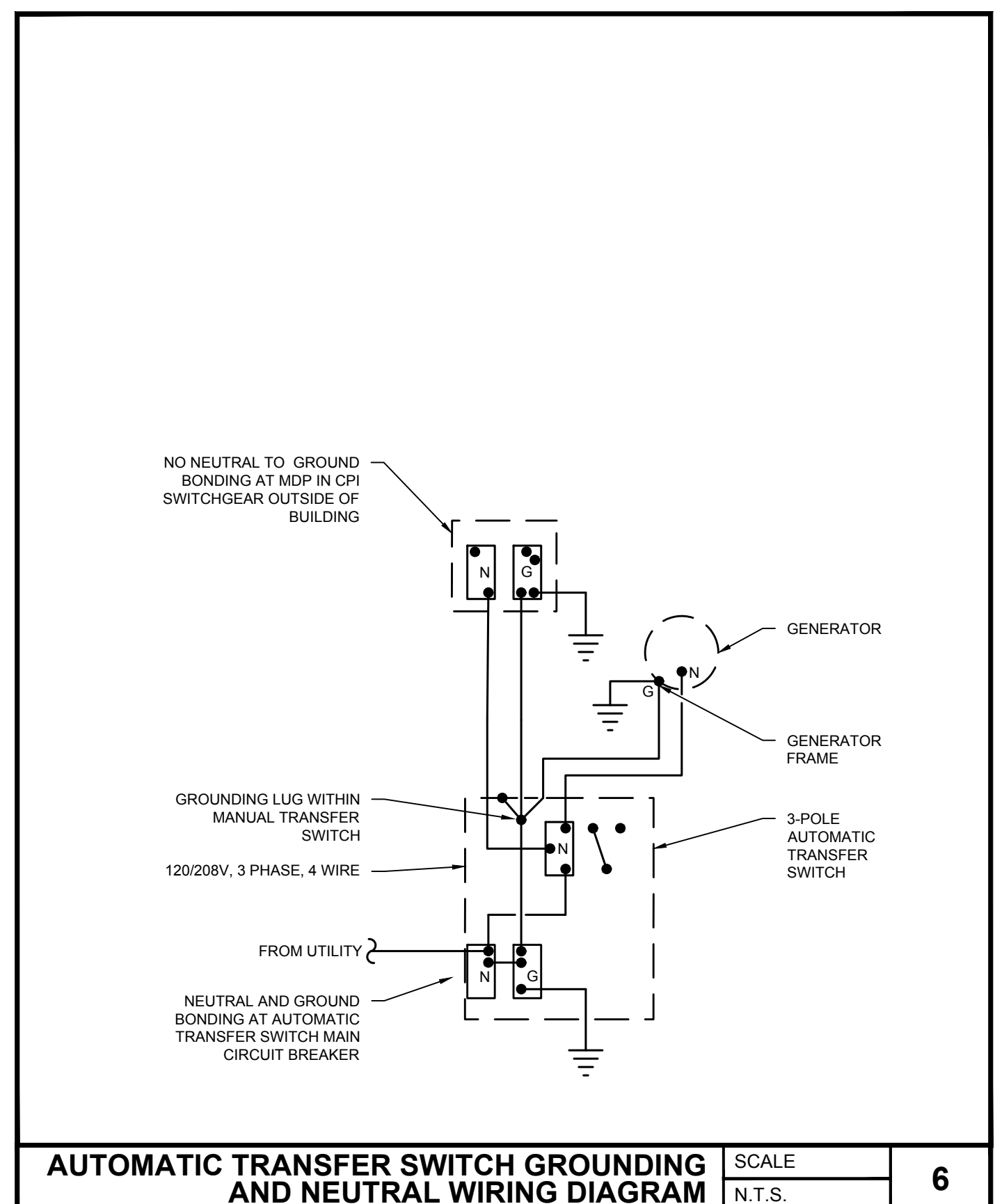
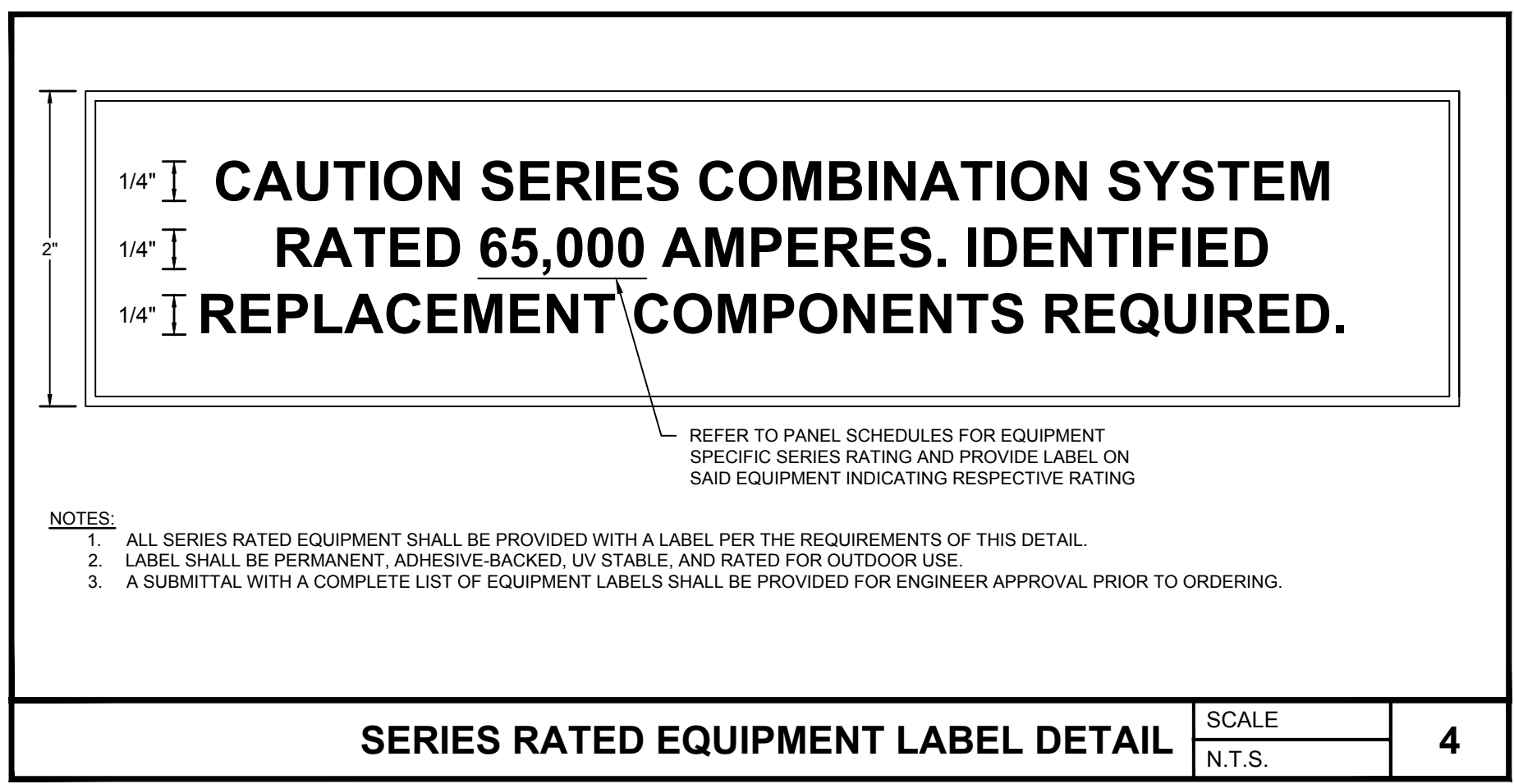
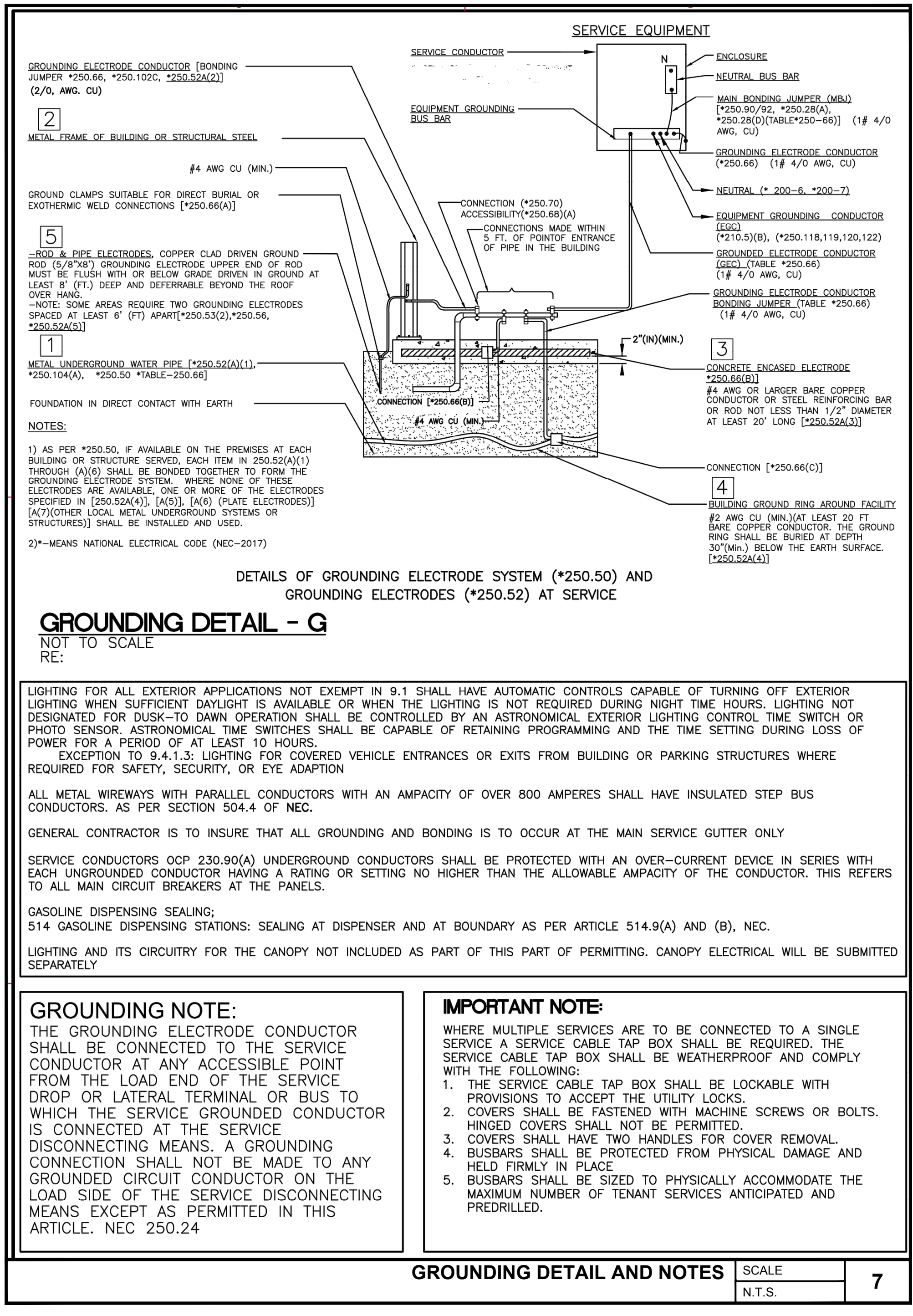


- NOTES:**
- ALL DISTRIBUTION EQUIPMENT SUCH AS PANELBOARDS, SWITCHBOARDS, DISCONNECTS, TRANSFORMERS, ETC. SHALL BE PROVIDED WITH AN EQUIPMENT LABEL PER THE REQUIREMENTS OF THIS DETAIL.
 - LABELS SHALL BE 2 PLY ENGRAVED PLASTIC LAMINATE WITH BLACK TYPEFACE LETTERS. LABEL BACKGROUND SHALL FOLLOW THE BELOW COLOR SCHEME:
 - A. NORMAL POWER - WHITE
 - B. UPS POWER - BLUE
 - C. LIFE SAFETY POWER - YELLOW
 - LABEL MATERIAL SHALL BE DURABLE, UV STABLE, RATED FOR OUTDOOR USE, AND ABRASION RESISTANT. WHERE ATTACHED TO NEMA 4X EQUIPMENT, LABELS SHALL IN ADDITION BE CHEMICAL RESISTANT.
 - LABELS SHALL BE PERMANENTLY ATTACHED TO ENCLOSURE COVER WITH RIVETS UNLESS DOING SO COMPROMISES ITS NEMA / IP RATING. LABELS FOR ENCLOSURES WITH WELDED SEAMS AND GASKETED DOORS SUCH AS THOSE RATED NEMA 12 OR NEMA 4 SHALL BE INSTALLED USING PERMANENT WEATHER-UV- AND TEMPERATURE-RESISTANT DOUBLE-SIDED MOUNTING TAPE ONLY.
 - A SUBMITTAL WITH A COMPLETE LIST OF EQUIPMENT LABELS SHALL BE PROVIDED FOR ENGINEER APPROVAL PRIOR TO ORDERING.
 - LABELS SHALL INDICATE NO LESS THAN THE FOLLOWING:
 - A. EQUIPMENT NAME
 - B. THE NOMINAL SYSTEM VOLTAGE WHICH SAID EQUIPMENT IS CONNECTED TO
 - C. THE EQUIPMENT NAME SUPPLYING POWER TO SAID EQUIPMENT
 - D. THE AVAILABLE FAULT CURRENT AT SAID EQUIPMENT

EQUIPMENT LABEL DETAIL SCALE N.T.S. 2



CPI UNITIZED GEAR TELEPHONE TERMINAL BOARD CEFCO RETAIL SCALE N.T.S. 1



01/04/2024	Date
03/17/2023	Date
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ISSUE FOR PERMIT	No.
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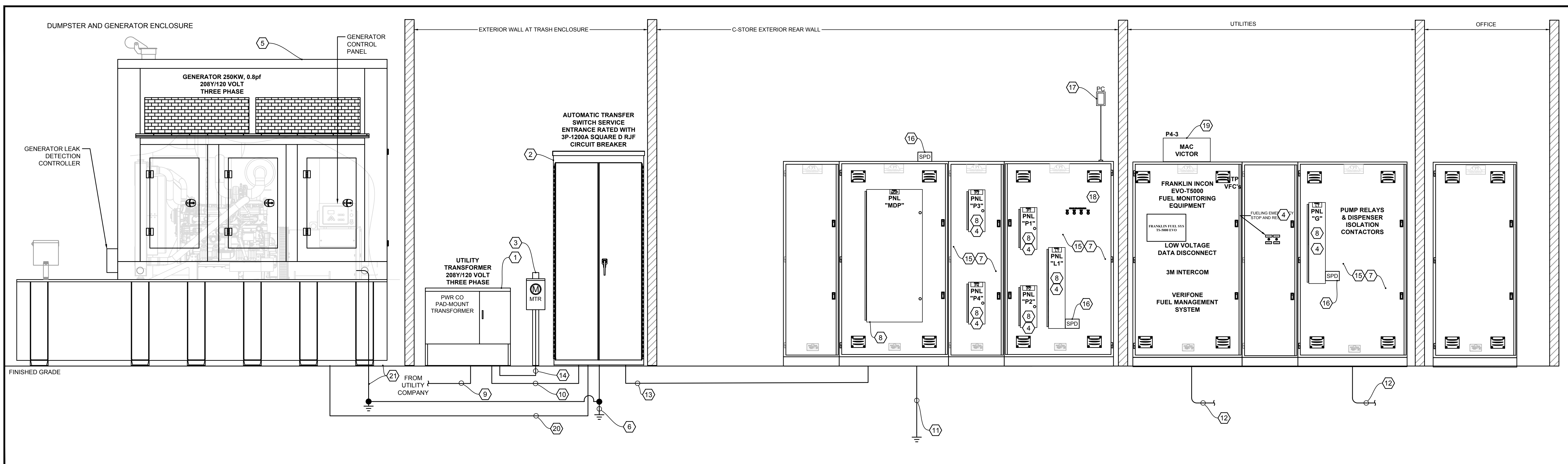
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NWC 1-10 AND HWY 331
DEFUNIAK SPRINGS, FL

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ELECTRICAL DETAILS

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CEFCO RISER DIAGRAM SCALE 1 N.T.S.

CEFCO RISER DIAGRAM KEYED NOTES:

- 1 POWER COMPANY PAD MOUNTED TRANSFORMER; SERVICE SHALL BE 208Y/120V, 3Ø, 4-WIRE TYPE. COORDINATE EXACT LOCATION WITH POWER COMPANY. MOUNT TRANSFORMER ON CONCRETE PAD, FURNISHED BY ELECTRICAL CONTRACTOR.
- 2 SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH(ATS); 1200A, 600V, 3-POLE, NEMA-3R, SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH (ATS), ASCO 300SE TYPE HAUS 1200. CIRCUIT BREAKERS AND ATS SHALL BE HAVE 100,000 AIC RATING. REFER TO MANUFACTURER INSTALLATION MANUAL FOR AUXILIARY WIRING REQUIREMENTS PRIOR TO INSTALLATION. REFER TO AUTOMATIC TRANSFER SWITCH GROUNDING AND NEUTRAL WIRING DIAGRAM DETAIL-6 ON SHEET ES.2.
- 3 METER SOCKET; PROVIDE APPROVED MODEL METER SOCKET PER POWER COMPANY REQUIREMENTS.
- 4 PANEL SERIES RATING LABEL; PROVIDE A SERIES RATING LABEL PER DETAIL 4 ON SHEET ES.2.
- 5 OPTIONAL STANDBY DIESEL GENERATOR; 250 KW, 0.8PF, 208Y/120V, 3Ø, 4-WIRE, JOHN DEERE STANDBY GENERATOR, BLUE STAR POWER SYSTEMS MODEL #432CSL6210. PROVIDE WITH LEVEL 2 ENCLOSURE (WPF) AND 750 GAL. DIESEL TANK TO OPERATE 48HR CONTINUOUS. REFER TO MANUFACTURER INSTALLATION MANUAL FOR AUXILIARY WIRING REQUIREMENTS PRIOR TO INSTALLATION. GENERATOR INSTALLER SHALL ANCHOR IT TO THE DUMPSTER PAD. INCLUDE VIBRATION ISOLATION MOUNTS. FUEL TANK SHALL BE FULL WHEN BUILDING IS TURNED OVER TO OWNER. INCLUDE 3P-1000A CIRCUIT BREAKER AT GENERATOR.
- 6 GROUNDING ELECTRODE CONDUCTOR(GEC); INSTALL MAIN BONDING JUMPER TO ESTABLISH NEUTRAL-GROUND BOND. INSTALL 1-#3/0 PVC INSULATED GROUNDING ELECTRODE CONDUCTOR (GEC) ROUTED IN 3/4" PVC CONDUIT TO GROUNDING ELECTRODE SYSTEM. GROUNDING ELECTRODE SYSTEM CONSISTING OF 2-3/4" X 10' CU CLAD GROUND RODS, CONCRETE ENCASED ELECTRODE, BUILDING STEEL, AND METAL COLD WATER PIPE. ADD DRIVEN GROUND RODS IN PARALLEL UNTIL A RESISTANCE OF 10 OHMS IS ACHIEVED.
- 7 CPI UNITIZED SWITCHBOARD; SWITCHBOARD SHALL BE FACTORY WIRED AND ASSEMBLED WITH ELECTRICAL PANELS, LIGHTING CONTROLS, FUEL EQUIPMENT, INTERCOM, AND POS. PROVIDE WITH 4" GALVANIZED BASE AND DOCUMENT HOLDER. UNITIZED SWITCHBOARD SHALL BE FURNISHED BY OWNER AND INSTALLED BY EC.
- 8 C-STORE ELECTRICAL PANELS; THESE PANELS ARE FULLY EQUIPPED WITH BOLT-ON TYPE CIRCUIT BREAKERS AND FACTORY WIRED AND INSTALLED IN CPI UNITIZED SWITCHBOARD. REFER TO PANEL SCHEDULES FOR RATINGS. PROVIDE LABEL PER EQUIPMENT LABEL DETAIL 2 ON SHEET ES.2.
- 9 POWER COMPANY PRIMARY CONDUIT SYSTEM; PROVIDE CONDUIT SYSTEMS, IF REQUIRED. FOR POWER COMPANY PRIMARY SERVICE CONDUCTORS. POINT OF INTERCEPTION WITH POWER COMPANY SHALL BE PER POWER COMPANY FIELD REPRESENTATIVE DIRECTION.
- 10 SERVICE ENTRANCE; (4) SETS OF 4-#600 KCMIL COMPACT AL XHHW EACH IN 4" CONDUIT. OWNER WILL PROVIDE THE CONDUCTORS FOR THE EC TO INSTALL. COMPACT ALUMINIUM CONDUCTORS SHALL HAVE OWNER PROVIDED HI PRESS LUGS FOR INSTALLATION BY EC ON COMPACT ALUMINIUM CONDUCTORS.
- 11 GROUNDING ELECTRODE CONDUCTOR; PROVIDE 1-#4/0 CU PVC INSULATED CONDUCTOR ROUTED FROM MAIN DISCONNECT SWITCH IN 3/4" PVC CONDUIT. BOND GROUNDING ELECTRODE CONDUCTOR TO 2-3/4" X 10' CU CLAD GROUND RODS, CONCRETE ENCASED ELECTRODE, BUILDING STEEL, AND METAL COLD WATER PIPE TO OBTAIN A RESISTANCE OF 10 OHMS OR LESS.
- 12 CONDUIT FOR FUEL EQUIPMENT; ROUTE CONDUIT AND WIRING TO FUEL EQUIPMENT. PROVIDE EXPLOSION-PROOF SEAL-OFFS AS REQUIRED BY NEC. REFER TO ELECTRICAL PLAN DRAWINGS, TANK ELECTRICAL DRAWINGS, AND PANEL SCHEDULES FOR EQUIPMENT/CONSUMER LOCATIONS AND BRANCH CIRCUIT REQUIREMENTS. REFER TO EQUIPMENT INSTALLATION MANUALS PRIOR TO INSTALLATION.
- 13 C-STORE SERVICE FEEDER; (4) SETS OF 4-#600 KCMIL COMPACT AL AND 1-#4/0 CU EG EACH IN 4" CONDUIT. OWNER WILL PROVIDE THE CONDUCTORS FOR THE EC TO INSTALL. COMPACT ALUMINIUM CONDUCTORS SHALL HAVE OWNER PROVIDED HI PRESS LUGS FOR INSTALLATION BY EC ON COMPACT ALUMINIUM CONDUCTORS.
- 14 CT WIRING CONDUIT; PROVIDE A 1-1/2" CONDUIT WITH PULL CORD INSTALLED FOR UTILITY PROVIDED CT METER WIRING.
- 15 C-STORE ELECTRICAL SUB-PANEL FEEDERS; THESE FEEDERS ARE FACTORY WIRED BY CPI. REFER TO PANEL SCHEDULE FOR NUMBER AND SIZE.
- 16 SURGE PROTECTIVE DEVICE; FURNISHED AND INSTALLED IN CPI UNITIZED GEAR.
- 17 PHOTOCELL; INSTALL CPI FURNISHED PHOTOCELL ON NORTH SIDE OF BUILDING TO CONTROL ON/OFF CIRCUIT TO LIGHTING CONTACTOR. EXACT LOCATION OF PHOTOCELL DEVICE TO BE AS DIRECTED BY GENERAL CONTRACTOR.
- 18 RESETTABLE CONTACTOR; FACTORY WIRED AND INSTALLED RESETTABLE CONTACTORS WITH THE BELOW CIRCUITS ROUTED THROUGH IT. WHEN THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED, THE CONTACTOR SHALL OPEN THE CIRCUITS. CIRCUITS: P2-4 [56], MDP-8,10,12[R]T[U-2], P3-33,35,37[R], P3-39[S], L1-23, P3-9,11,13[B], P4-7.
- 19 MACVICTOR UPS; MACVICTOR BATTERY BACKUP AND POWER CONDITIONER FURNISHED BY OWNER AS PART OF CPI PACKAGE. COORDINATE WITH OWNER FOR FINAL LOCATION. MAKE ALL CONNECTIONS.
- 20 GENERATOR FEEDER; (4) SETS OF 4-#500 KCMIL COMPACT AL AND 1-4/0 CU EACH IN 4" CONDUIT. OWNER WILL PROVIDE THE CONDUCTORS FOR THE EC TO INSTALL. COMPACT ALUMINIUM CONDUCTORS SHALL HAVE OWNER PROVIDED HI PRESS LUGS FOR INSTALLATION BY EC ON COMPACT ALUMINIUM CONDUCTORS.
- 21 GENERATOR EQUIPOTENTIAL GROUND; GROUND ENCLOSURE/FRAME AT TWO PLACES ON OPPOSITE CORNERS AS WELL AS TANK WITH 1-#4/0 PVC INSULATED CONDUCTOR TO 3/4" X 10' CU CLAD GROUND ROD. ROUTE GROUND CONDUCTORS IN 3/4" PVC CONDUIT.

UNITIZED SWITCHBOARD SUPPLIER

CAROLINA PRODUCTS, INC.
 CONTACT NAME: ERIC LINE
 PHONE NUMBER: (800) 736-4455
 EMAIL: ERICL@CPIPANELS.COM

Fault Point (F#)	Bus/Feeder Description	Phase	Source (Fault Point)	Source (amps)	Feeder Conduit Type	Material	CU or AL #	Wire/Bus Size	Conductor 'C' value	Busway C value	L-L Volts E	Circuit Length L	Load Power Factor(pf)	Circuit Load A	Conductor Resistance R	Conductor Reactance X	Conductor Impedence, Z/Ø	Transformer Type	kVA	Degree Rise	Z	V sec	f	M	FAULT CURRENT Isc	VOLTAGE DROP %VD	TOTAL V.D. %VD CUM																												
																												Source Isc + 6X Motor Contribution =																											
1	Utility Service Point			69532	at the secondary of the utility transformer																																																		
Motor Contribution																												The connected full load motor amps (includes compressors) on the system																											
2	ATS	3	69532	NM	AL	4	Set(s) of	600	kcmil	23451	208	25	0.9	1011	0.000036	0.000039	0.451027								0.154	0.87	60237	0.26%	0.26%																										
3	MDP	3	60237	NM	AL	4	Set(s) of	600	kcmil	23451	208	150	0.9	1011	0.000036	0.000039	0.451027								0.802	0.55	33426	1.56%	1.82%																										
4	P1	3	33426	M	CU	1	Set(s) of	4/0	AWG	15082	208	15	0.9	147	0.000063	0.000051	0.451027							0.277	0.78	26179	0.14%	1.96%																											
5	P2	3	33426	M	CU	1	Set(s) of	4/0	AWG	15082	208	15	0.95	140	0.000063	0.000051	0.317560							0.277	0.78	26179	0.13%	1.95%																											
6	P3	3	33426	M	CU	1	Set(s) of	4/0	AWG	15082	208	15	0.9	173	0.000063	0.000051	0.451027							0.277	0.78	26179	0.17%	1.99%																											
7	P4	3	33426	M	CU	1	Set(s) of	1/0	AWG	8925	208	15	0.9	77	0.000120	0.000055	0.451027							0.468	0.68	22773	0.13%	1.95%																											
8	L1	3	33426	M	CU	1	Set(s) of	4/0	AWG	15082	208	15	0.95	145	0.000063	0.000051	0.317560							0.277	0.78	26179	0.14%	1.96%																											
9	G	3	33426	M	CU	1	Set(s) of	4/0	AWG	15082	208	15	0.8	105	0.000063	0.000051	0.643501							0.277	0.78	26179	0.11%	1.93%																											

CEFCO SHORT CIRCUIT AND VOLTAGE DROP CALCULATION ALUMINIUM SCALE 1 N.T.S. **2**

CPI MANUFACTURER WILL NEED TO AFFIX A FACTORY APPLIED ARC FLASH LABEL PER NEC 110.16(B)

REFER TO STANDARD CEFCO FUEL WIRE SIZES FOR STANDARD FUEL WIRE SIZES ON SHEET ES.10

01/04/2024	Date
03/12/2023	Issue for Permit
1	No.
2	Revision/Issue

INFINITY
 INFINITY ENGINEERING GROUP, LLC
 1208 East Kennedy Boulevard Suite 230
 Tampa, Florida 33602
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 www.iggroup.net
 FL Cert. of Auth. No. 27889

ANDREW MOHR, P.E.
 FL REG. NO. 73077

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
CEFCO ELECTRICAL RISER DIAGRAM

Project No. 170-95.00
 Drawn By: E6.0
 Checked By:

PANELBOARD: P3 (NEW)										FAULT CURRENT: REFER TO ONE-LINE DIAGRAM										PROVIDE EQUIPMENT GROUND BUS																								
BUS AMPS: 225A MAIN SIZE/TYP: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W										AIC RATING: 65000 SERIES RATED										ENCLOSURE: NEMA 1																								
SECTION: 1										LOCATION:										LOCATION:																								
CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT					BREAKER					VOLTAMPS/PHASE					BREAKER					CONDUCTOR & CONDUIT					DESCRIPTION	CKT NO.																
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG	GND	NEUT	PH																					
1	EVH-INSTA WTR HTR[91B]	10	--	10	--	3/4"		45	2	3,750														2																				
3	[IWH-2]	10	--	10	--	3/4"				3,750														4																				
5	EVH-INSTA WTR HTR[91B]	10	--	10	--	3/4"		25	2	1,800	1,800													6																				
7	[IWH-3][7C]	10	--	10	--	3/4"				1,800	2,641	2,641												8																				
9	KIT-RETHERMALIZING UNIT[80]	6	6	10	--	1"	GFCI	50	3	2,641	2,641	2,641											10																					
11	EVH-INSTA WTR HTR[91B]	10	--	10	--	3/4"		25	2	1,800	1,800													12																				
13	[IWH-3][7D]	10	--	10	--	3/4"				1,800	318													14																				
15	REC-INSECT LIGHT	12	12	12	--	3/4"		20	1	180														16																				
17	REC-ICE BAGGER [25]	12	12	12	--	3/4"	GFCI	20	1	1,012	1,012													18																				
19	MISC-HAND DRYER [56A]	10	10	10	--	3/4"	LOFF	20	1	1,464	1,464													20																				
21	MISC-HAND DRYER [58B]	10	10	10	--	3/4"	LOFF	20	1	1,464	1,464													22																				
23	MISC-HAND DRYER [58C]	10	10	10	--	3/4"	LOFF	20	1	1,464	1,464													24																				
25	MISC-HAND DRYER [80D]	10	10	10	--	3/4"	LOFF	20	1	1,464	1,464													26																				
27	MTR-EXHAUST FAN [KEF-1]	10	10	10	--	3/4"		20	1	1,012														28																				
29	SPACE									3,750	3,750													30																				
31	SPACE									400	400													32																				
33	SPACE									360	360													34																				
35	SPACE									2,220	2,220													36																				
37	SPACE									900	900													38																				
39	MTR-EXHAUST FAN [EF-1]	12	12	12	--	3/4"		20	1	426														40																				
41	SPACE									157	157													42																				
SUBTOTAL										10,847	10,867	9,505	8,045	11,093	6,225	SUBTOTAL																												
LOAD										CONN. VA					DF					TOTAL PHASE A - VA					TOTAL PHASE B - VA					TOTAL PHASE C - VA					TOTAL DEMAND									
COOLING										1.00					REFRIGERATION					1.00					18,892					21,760					15,820					56,472 VA				
HEATING										0					SIGN/DISPLAY					1.25					157					181					132					157 A				
LIGHTING										1.25					KITCHEN					7,923					1.00					1.00					1.00					1.00				
RECEPTACLES										5,330					1.0/5					EXISTING					1.00					1.00					1.00					1.00				
MOTORS										2,938					1.00					LARGEST MOTOR					1.25					1.25					1.25					1.25				
WATER HEATER										22,200					1.00					SHOW WINDOW					1.25					1.25					1.25					1.25				
MISC EQUIP										19,081					1.00					LTG TRACK					1.00					1.00					1.00					1.00				

NEW PANEL "P3" SCALE N.T.S. 4

PANELBOARD: P4 (NEW)										FAULT CURRENT: REFER TO ONE-LINE DIAGRAM										PROVIDE EQUIPMENT GROUND BUS																																		
BUS AMPS: 150A MAIN SIZE/TYP: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W										AIC RATING: 65000 SERIES RATED										ENCLOSURE: NEMA 1																																		
SECTION: 1										LOCATION:										LOCATION:																																		
CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT					BREAKER					VOLTAMPS/PHASE					BREAKER					CONDUCTOR & CONDUIT					DESCRIPTION	CKT NO.																										
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG	GND	NEUT	PH																															
1	REC-ATM-ANY CARD [26]	12	12	12	12	3/4"		20	1	1,380														2																														
3	MISC-MAC VICTOR	10	10	10	10	3/4"		25	1	2,000														4																														
5	REC-OFFICE CPU	12	12	12	12	3/4"		20	1	750														6																														
7	MISC-GAS SOL ENDR VALVE	12	12	12	12	3/4"		20	1	200														8																														
9	REC-CASH COUNTER	12	12	12	12	3/4"		20	1	400														10																														
11	REC-CUSTOMER KIOSK	12	12	12	12	3/4"		20	1	504														12																														
13	REC-BEHIND CASHIER	12	12	12	12	3/4"		20	1	180														14																														
15	EVH-INSTANTANEOUS WATER HEATER [V3]	10	--	10	--	3/4"		25	2	1,768	1,768													16																														
17	REC-FRONT ENTRANCE	12	12	12	12	3/4"		20	1	360														18																														
19	REF-PIZZA PREP REF[27]	12	12	12	12	3/4"	GFCI	20	1	1,200														20																														
21	REF-FZN BEV MC [29]	12	12	12	12	3/4"	GFCI	20	1	1,440														22																														
23	KIT-POWER WASH SINK[31]	10	--	10	--	3/4"		30	2	915														24																														
25	REF-REFRIG DISPLAY [37]	12	12	12	12	3/4"		20	1	696														26																														
27	KIT-HTD DISPLAY CASE [38]	12	12	12	12	3/4"	LOFF	20	2	1,373														28																														
29	REC-FOOD LABEL MKR[43]	12	12	12	12	3/4"	GFCI	20	1	1,373														30																														
31	REC-CHILLER[46ABCD]	10	10	10	--	1"		20	1	720														32																														
33	REC-DELL MONITOR	12	12	12	12	3/4"	GFCI	20	1	360														34																														
35	MISC-HOOD CONTROL SYS	12	12	12	12	3/4"		20	1	600														36																														
37	SPACE									3,360	3,360													38																														
39	SPACE									3,784	3,784													40																														
41	SPACE									2,240	2,240													42																														
SUBTOTAL										5,128	8,016	6,958	3,360	3,784	2,240	SUBTOTAL																																						
LOAD										CONN. VA					DF					TOTAL PHASE A - VA					TOTAL PHASE B - VA					TOTAL PHASE C - VA					TOTAL DEMAND																			
COOLING										1.00					REFRIGERATION					3,336					1.00					71					11,800					98					9,198					28,277 VA				
HEATING										0					SIGN/DISPLAY					1.25					1.00					1.00					1.00					1.00														
LIGHTING										1.25					KITCHEN					4,576					1.00					1.00					1.00					1.00														
RECEPTACLES										12,418					1.0/5					EXISTING					1.25					1.25					1.25					1.25														
MOTORS										3,536					1.00					LARGEST MOTOR					1.25					1.25					1.25					1.25														
WATER HEATER										3,536					1.00					SHOW WINDOW					1.25					1.25					1.25					1.25														
MISC EQUIP										5,620					1.00					LTG TRACK					1.00					1.00					1.00					1.00														

NEW PANEL "P4" SCALE N.T.S. 5

PANELBOARD: MDP (NEW)										FAULT CURRENT: REFER TO ONE-LINE DIAGRAM										PROVIDE EQUIPMENT GROUND BUS									
BUS AMPS: 1200A MAIN SIZE/TYP: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W										AIC RATING: 65000 FULLY RATED										ENCLOSURE: NEMA 1									
SECTION: 1										LOCATION:										LOCATION:									
CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT					BREAKER					VOLTAMPS/PHASE					BREAKER					CONDUCTOR & CONDUIT					DESCRIPTION	CKT NO.	
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG	GND	NEUT	PH						
1	PANEL P1	4/0	4/0	4	--	2-1/2"		225A	3	20,478	17,806	7,196	7,196											2					
3	PANEL P2	4/0	4/0	4	--	2-1/2"		225A	3	20,911	23,984	7,196	7,196											4					
5	PANEL P3	4/0	4/0	4	--	2-1/2"		225A	3	18,892	21,760	7,196	7,196											6					
7	PANEL P4	4/0	4/0	4	--	2-1/2"		225A	3	8,488	15,820	7,196	7,196											8					
9	PANEL L1	4/0	4/0	4	--	2-1/2"		225A	3	16,002	12,372	2,017	2,017											10					
11	PANEL G	4/0	4/0	4	--	2-1/2"		225A	3	10,260	19,460	2,017	2,017											12					
13	EVH-TANKLESS WTR HTR [57B][IWH-1]	10	--	10	--	3/4"		25	2	1,800	1,800													14					
15	SPACE									20	20													16					
17	SPACE									2	2													18					
19	SPACE									3	3													20					
21	SURGE PROTECTIVE DEVICE	10	10	10	--	3/4"		30	3															22					
23	SPACE									2	2													24					
25	SPACE									3	3													26					
27	SPACE									3	3													28					
29	SPACE									3	3													30					
31	SPACE									3	3													32					
33	SPACE									3	3													34					
35	SPACE									3	3													36					
37	SPACE									3	3													38					
39	SPACE									3	3													40					
41	SPACE									3	3													42					
43	SPACE									3	3																		

PANELBOARD NOTES:

- ALL BUSING SHALL BE COPPER.
- BOLT-ON BREAKERS ONLY.
- PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY CARD.
- ALL PANELBOARDS SHALL BE SUPPLIED FROM THE SAME MANUFACTURER.
- IN EXISTING INSTALLATIONS, NEW CIRCUIT BREAKERS SHALL MATCH EXISTING IN TYPE AND AIC RATING, UNO.
- CIRCUIT BREAKER TYPE ABBREVIATIONS ARE AS FOLLOWS:
 - AFCI ARC-FAULT CIRCUIT INTERRUPTER
 - F RED MARKING & "FIRE ALARM CIRCUIT"
 - GFCI GROUND-FAULT CIRCUIT INTERRUPTER
 - GFPE 30 MA EQUIPMENT GROUND FAULT PROTECTION
 - HT2 HANDLE TIE FOR SHARED NEUTRAL CIRCUIT (2 POLE)
 - HT3 HANDLE TIE FOR SHARED NEUTRAL CIRCUIT (3 POLE)
 - L/OFF LOCKABLE "LOCK ON" HANDLE HARDWARE
 - L/OFF LOCKABLE "LOCK OFF" HANDLE HARDWARE
 - TAN TANDEM
 - SHNT SHUNT TRIP
 - SWD SWITCH DUTY RATED
 - SWN SWITCHED NEUTRAL
 - ETR EXISTING TO REMAIN
 - FW FACTORY WIRED
 - HOOD CIRCUIT CONTROLLED BY HOOD FIRE SUPPRESSION SYSTEM
 - NEW NEW TO MATCH EXISTING
 - REM REMOVE EXISTING AND PROVIDE NEW
 - T/C CIRCUIT THRU TIME CLOCK
 - PHO CIRCUIT THRU PHOTOCELL
 - LCP CIRCUIT THRU LIGHTING CONTROL PANEL
 - L/C CIRCUIT THRU LIGHTING CONTACTOR

ELECTRICAL CONTRACTOR TO PROVIDE GFCI CIRCUIT BREAKERS AS REQUIRED. REFER TO PANEL SCHEDULE FOR MORE INFORMATION.

PANELBOARD: L1 (NEW)

BUS AMPS: 225A
 MAIN SIZE/TYPE: MLO
 VOLTS/PHASE: 208Y/120V, 3PH, 4W

FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
 AIC RATING: 65000 SERIES RATED
 SERVES:
 MOUNTING: SURFACE ENCLOSURE: NEMA 1

PROVIDE EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT					BREAKER			VOLTAMPS/PHASE			BREAKER			CONDUCTOR & CONDUIT					DESCRIPTION	CKT NO.				
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG			GND	NEUT	PH	
1	LGT - RR LGT [114,117]	12	12	12	--	3/4"	20	1	668			298			1	20	3/4"	--	12	12	12	12	LGT - FACIA LGT LEFT	2		
3	LGT - SALES [101] LEFT	12	12	12	--	3/4"	20	1			1,120			200		1	20	3/4"	--	12	12	12	12	LGT - FACIA LGT RIGHT	4	
5	LGT - SALES [101] RIGHT	12	12	12	--	3/4"	20	1			1,164			564		1	20	3/4"	--	12	12	12	12	LGT - BACK WALL PACKS	6	
7	SIGN - LEFT ENT SIGN	12	12	12	--	3/4"	20	1	1,200			1,200			1	20	3/4"	--	12	12	12	12	SIGN - FRONT ENT SIGN	8		
9	LGT - ABOVE COOLER DOOR	12	12	12	--	3/4"	20	1			720			1,200		1	20	3/4"	--	12	12	12	12	SIGN - RIGHT ENT SIGN	10	
11	LGT - CASHIER / DELI	12	12	12	--	3/4"	20	1			462			1,346		2	20	1"		8	--	8	8	LTG-SITE LIGHTING	12	
13	LGT - STRIP LGT	12	12	12	--	3/4"	20	1	428			1,346			2	20	1"		8	--	8	8	8	LTG-SITE LIGHTING	14	
15	LGT - BOH LGT	12	12	12	--	3/4"	20	1			490			916		2	20	1"		8	--	8	8	LTG-SITE LIGHTING	16	
17	LGT - BEV AREA [120]	12	12	12	--	3/4"	20	1			920			916		2	20	1"		8	--	8	8	LTG-SITE LIGHTING	18	
19	SIGN - YOGURT	12	12	12	--	3/4"	20	1	1,200			954			2	20	1"		8	--	8	8	8	LTG-VEHICLE FUELING	20	
21	LGT - CABINET LED	12	12	12	--	3/4"	20	1			200			954		2	20	1"		8	--	8	8	CANOPY (SURROUND LED)	22	
23	LTG-HOOD LIGHTING	12	12	12	--	3/4"	20	1			600			954		2	20	1"		8	--	8	8	LTG-VEHICLE FUELING	24	
25	SIGN-FRONT RIGHT SIGN	12	12	12	--	3/4"	20	1	1,200			954			2	20	1"		8	--	8	8	8	LTG-VEHICLE FUELING	26	
27	SIGN- RIGHT SIGN	12	12	12	--	3/4"	20	1			1,200			573		2	20	1"		8	--	8	8	LTG-VEHICLE FUELING	28	
29	SPARE						20	1						573		2	20	1"		8	--	8	8	CANOPY	30	
31	REC - CANOPY MAINTENANCE	10	10	10		3/4"	20	1	200			1,000			2	20	1"		8	--	8	8	8	LTG-VEHICLE FUELING	32	
33	REC - SIGN A MAINTENANCE	8	8				20	1				1,000			2	20	1"		8	--	8	8	8	CANOPY (SURROUND LED)	34	
35	LTG - SIGN A ILLUMINATION	6	6				20	1			1,200			1,000		2	20	1"		8	--	8	8	8	LTG-VEHICLE FUELING	36
37	LTG - SIGN 'A' CEFCO	6	6	6		1-1/2"	HT3	20	1	1,200			1,000		2	20	1"		8	--	8	8	8	CANOPY (SURROUND LED)	38	
39	LTG-SIGN 'A' DEF	6	6				HT3	20	1	1,200			400		1	15	3/4"		12	12	12	12	12	12	LIGHTING CONTROL POWER	40
41	LTG-SIGN 'A' UNLEADED	6	6				HT3	20	1	1,200			954		2	20	1"		8	--	8	8	8	8	LTG-TRUCK FUELING	42
43	LTG - SIGN 'B' CEFCO	6	6				HT3	20	1	1,200			954		2	20	1"		8	--	8	8	8	8	CANOPY	44
45	LTG - SIGN 'B' DEF	6	6				HT3	20	1	1,200					1										SPACE	46
47	LTG - SIGN 'B' UNLEADED	6	6	6		1-1/2"	HT3	20	1	1,200			500		1	20	3/4"		12	12	12	12	12	12	MSC-LTG CONTACTORS	48
49	LTG - SIGN 'B' ILLUMINATION	6	6				20	1				1,000			2	20	1"		8	--	8	8	8	8	LTG-VEHICLE FUELING	50
51	REC - SIGN B MAINTENANCE	8	8				20	1				1,000			2	20	1"		8	--	8	8	8	8	CANOPY (SURROUND LED)	52
53	LTG - BEER CAFE SIGN	12	12	12	--	3/4"	20	1							1										54	
55	SPACE																								56	
57	SPACE																								58	
59	SPACE																								60	
61	SPACE																								62	
63	SPACE																								64	
65	SPACE																								66	
67	SURGE PROTECTIVE DEVICE	10																							68	
69	RSE-1	10	10	10	--	3/4"	30	3																	70	
71		10																							72	
		SUBTOTAL					7,296	6,130	6,748			8,706	6,242	6,807	SUBTOTAL											
LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	TOTAL PHASE A - VA		16,002	TOTAL PHASE B - VA		12,372	TOTAL PHASE C - VA		13,553	TOTAL DEMAND		52,133 VA	TOTAL PNLBD - VA		41,927	TOTAL PNLBD - VA		145,744	
COOLING		1.00		REFRIGERATION		1.00		CONN. AMPS		133	CONN. AMPS		103	CONN. AMPS		113	TOTAL DEMAND		113	AMP		116	AMP		145,744	
HEATING		0		SIGN/DISPLAY		12,000		TOTAL PHASE A - VA		16,002	TOTAL PHASE B - VA		12,372	TOTAL PHASE C - VA		13,553	TOTAL DEMAND		52,133 VA	TOTAL PNLBD - VA		41,927	TOTAL PNLBD - VA		145,744	
LIGHTING		28,827	1.25	KITCHEN		1.00		CONN. AMPS		103	CONN. AMPS		103	CONN. AMPS		113	TOTAL DEMAND		113	AMP		116	AMP		145,744	
RECEPTACLES		600	1.0/5	EXISTING		1.00		TOTAL PHASE A - VA		16,002	TOTAL PHASE B - VA		12,372	TOTAL PHASE C - VA		13,553	TOTAL DEMAND		52,133 VA	TOTAL PNLBD - VA		41,927	TOTAL PNLBD - VA		145,744	
MOTORS			1.00	LARGEST MOTOR		1.25		CONN. AMPS		113	CONN. AMPS		113	CONN. AMPS		113	TOTAL DEMAND		113	AMP		116	AMP		145,744	
WATER HEATER			1.00	SHOW WINDOW		1.25		TOTAL PHASE A - VA		16,002	TOTAL PHASE B - VA		12,372	TOTAL PHASE C - VA		13,553	TOTAL DEMAND		52,133 VA	TOTAL PNLBD - VA		41,927	TOTAL PNLBD - VA		145,744	
MSC EQUIP		500	1.00	LTG TRACK		1.00		AMP		116	AMP		116	AMP		116	TOTAL DEMAND		116	AMP		116	AMP		145,744	

NEW PANEL "L1" SCALE N.T.S. 1

PANELBOARD: G (NEW)

BUS AMPS: 225A
 MAIN SIZE/TYPE: MLO
 VOLTS/PHASE: 208Y/120V, 3PH, 4W

FAULT CURRENT: REFER TO ONE-LINE DIAGRAM
 AIC RATING: 65000 SERIES RATED
 SERVES:
 MOUNTING: SURFACE ENCLOSURE: NEMA 1

PROVIDE EQUIPMENT GROUND BUS

CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT					BREAKER			VOLTAMPS/PHASE			BREAKER			CONDUCTOR & CONDUIT					DESCRIPTION	CKT NO.				
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG			GND	NEUT	PH	
1	MSC-VEHICLE FUEL DISPENSER #1	10	10	10	--	1"	SWN	20	2			800			2	20	SWN	1"	--	10	10	10	10	MSC-VEHICLE FUEL DISPENSER #7	2	
3	SPACE														1										SPACE	4
5	SPACE														1										SPACE	6
7	MSC-VEHICLE FUEL DISPENSER #2	10	10	10	--	1"	SWN	20	2			800			2	20	SWN	1"	--	10	10	10	10	MSC-VEHICLE FUEL DISPENSER #8	8	
9	SPACE														1										SPACE	10
11	SPACE														1										SPACE	12
13	MSC-VEHICLE FUEL DISPENSER #3	10	10	10	--	1"	SWN	20	2			800			2	20	SWN	1"	--	10	10	10	10	MSC-VEHICLE FUEL DISPENSER #9	14	
15	SPACE														1										SPACE	16
17	SPACE														1										SPACE	18
19	MSC-VEHICLE FUEL DISPENSER #4	10	10	10	--	1"	SWN	20	2			800			2	20	SWN	1"	--	10	10	10	10	MSC-VEHICLE FUEL DISPENSER #10	20	
21	SPACE														1										SPACE	22
23	SPACE														1										SPACE	24
25	MSC-VEHICLE FUEL DISPENSER #5	10	10	10	--	1"	SWN	20	2			800			2	20	SWN	1"	--	10	10	10	10	MSC-VEHICLE FUEL DISPENSER #11	26	
27	SPACE														1										SPACE	28
29	SPACE														1										SPACE	30
31	MSC-VEHICLE FUEL DISPENSER #6	10	10	10	--	1"	SWN	20	2			800			2	20	SWN	1"	--	10	10	10	10	MSC-VEHICLE FUEL DISPENSER #12	32	
33	SPACE														1										SPACE	34
35	SPACE														1										SPACE	36
37	SPACE														2	20									SPACE	38
39	SPACE														1										SPACE	40
41	SPACE														1										SPACE	42
43	SPACE											1,710													MTR-REGULAR STP #1 of 2 VFC(4HP)	44
45</																										

CONSTRUCTION PLANS FOR:

CEFCO DFS I-10 & 331 DeFUNIAK SPRINGS, FLORIDA

PREPARED FOR:

THE FIKES COMPANIES
c/o Denise Anderson, CCIM
9764 Whithorn Drive
Houston, TX 77095
Phone: (281) 382-7117



VICINITY MAP
NOT TO SCALE

DIRECTIONS TO LOCATE SITE:

LATITUDE = 30°41'42.50"N
LONGITUDE = 86°07'29"W
SECTION = 25
TOWNSHIP = 2 NORTH
RANGE = 19 WEST
COUNTY = WALTON

THE PROJECT SITE IS LOCATED IN THE CITY OF DEFUNIAK SPRINGS, WALTON COUNTY, FLORIDA, AT THE NORTH WEST QUADRANT OF HWY 331 AND INTERSTATE 10.

UTILITY PROVIDERS

(WATER/SEWER/GAS) (TELEPHONE)
CITY OF DEFUNIAK SPRINGS SPECTRUM
45 N PARK ST 94 WALTON RD
DEFUNIAK SPRINGS, FL 32433 DEFUNIAK SPRINGS, FL 32433
(850) 892-8534 (850) 874-2389

(ELECTRIC) (FIRE DISTRICT)
CHELCO ELECTRIC DEFUNIAK SPRINGS FIRE DEPARTMENT
1350 W. BALDWIN AVENUE 58 W BURDICK AVE
DEFUNIAK SPRINGS, FL 32433 DEFUNIAK SPRINGS, FL 32433
(850) 892-2111 (850) 892-8515

GOVERNMENTAL AGENCIES HAVING JURISDICTION

FLORIDA DEPARTMENT OF TRANSPORTATION
RUSTY WILLIAMS
(850) 836-5790

CITY OF DEFUNIAK SPRINGS (PLANNING DEPARTMENT)
CHRISTOPHER WALLACE, AICP - PLANNING DIRECTOR
(850) 892-8571, EXT. 1116

(PUBLIC WORKS)
CRAIG DRAKE - PUBLIC WORKS DIRECTOR
(850) 892-8534, EXT. 1127

AUTHORITY AND RESPONSIBILITY

THE ENGINEER, AS REPRESENTATIVE OF THE OWNER, SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OR PERSONS DOING THE WORK, SHALL NOT HAVE CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS, OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY THE STRUCTURAL WORK ACT.

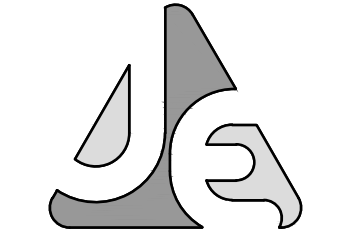
SITE ADDRESS

S. US HWY 331
DEFUNIAK SPRINGS, FL
32435

PROJECT NARRATIVE

PROJECT CONSISTS OF A CEFCO GAS STATION WITH 24 FUELING STATIONS AND A 6,000 SQ. FT. CONVENIENCE STORE WITH A PROPOSED FULL ACCESS CONNECTION ONTO HWY 331. THE CONNECTION WILL BE THE 4TH LEG OF THE EXISTING INTERSECTION OF HWY 331 AND BUSINESS PARK ROAD AND WILL INCLUDE RIGHT AND LEFT TURN LANES AND SIGNAL IMPROVEMENTS.

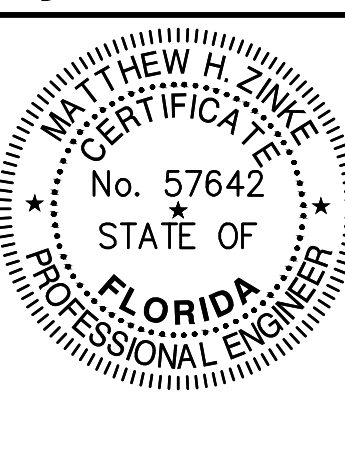
SHEET INDEX		
DRAWING	SHEET	TITLE
1	F00	COVER SHEET
2	F01	F.D.O.T. UTILITY PLAN



JENKINS ENGINEERING, INC.
73 EGLIN PARKWAY NE, SUITE 203
FORT WALTON BEACH, FLORIDA 32548
PHONE 850.837.2448
FAX 850.837.2450

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73 EGLIN PARKWAY NE, SUITE 203
FORT WALTON BEACH, FLORIDA 32548
PHONE 850.837.2448
FAX 850.837.2450

JEICIVIL.COM
C.O.A. NO. 9927 - L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
FL REGISTRATION NO. 57642

REV	DATE	DESCRIPTION

THE FIKES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
COVER SHEET
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
DATE: 6/12/2026
DESIGNED: MZ
DRAWN: BF

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IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
1 OF 2

SHEET NUMBER
F00

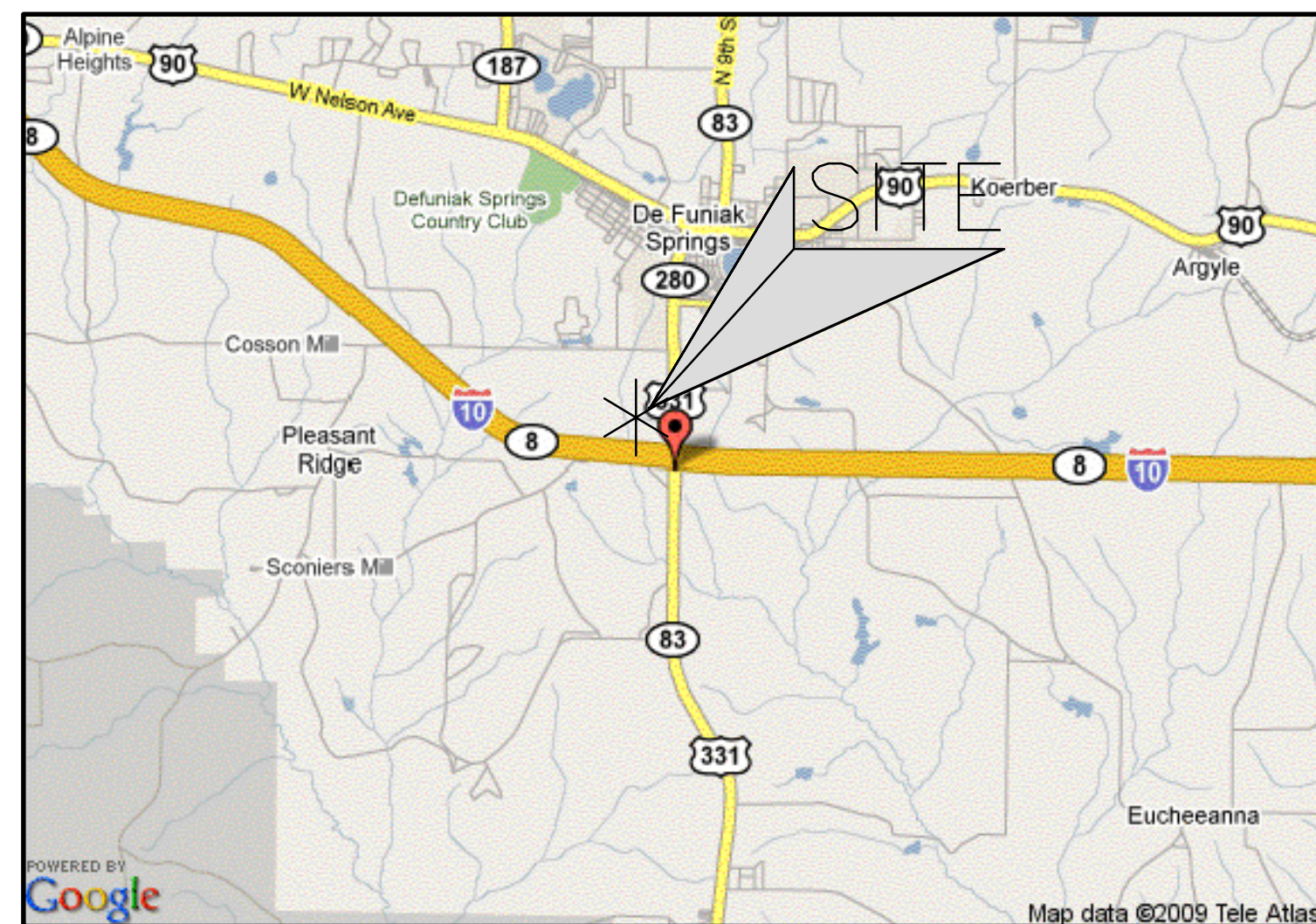
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Last plotted by: Brian Farmer Plot Scale: 1:1 Plot Date: 6/12/2023 4:15 PM Plotter used: DWG To PDF.pc3

CONSTRUCTION PLANS FOR:

CEFCO DFS I-10 & 331 F.D.O.T. CONNECTION DeFUNIAK SPRINGS, FLORIDA

PREPARED FOR:

THE FIKES COMPANIES
C/O Denise Anderson, CCIM
9764 Whithorn Drive
Houston, TX 77095
Phone: (281) 382-7117



VICINITY
MAP
NOT TO SCALE

DIRECTIONS TO LOCATE SITE:

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DEFUNIAK SPRINGS, FL 32433
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(TELEPHONE)
SPECTRUM
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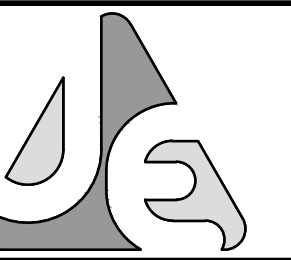
SITE ADDRESS

S. US HWY 331
DEFUNIAK SPRINGS, FL
32435

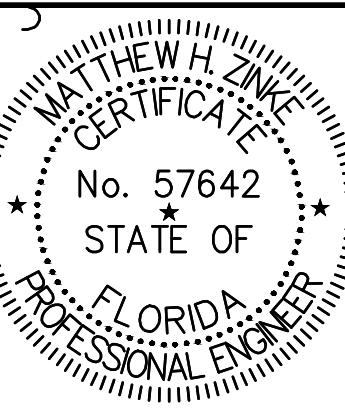
PROJECT NARRATIVE

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SHEET INDEX		
DRAWING	SHEET	TITLE
	1	F00 COVER SHEET
	2	F01 F.D.O.T. NEIGHBORING CONNECTION SURVEY & DEMOLITION PLAN
	3	F02 F.D.O.T. SITE PLAN
	4	F03 F.D.O.T. DRAINAGE PLAN
	5	F04 F.D.O.T. DRIVEWAY CROSS-SECTION
	6	F05 F.D.O.T. RIGHT TURN CROSS-SECTION
	7	F06 F.D.O.T. LEFT TURN CROSS-SECTION I
	8	F07 F.D.O.T. LEFT TURN CROSS-SECTION II



JENKINS ENGINEERING, INC.
73 EGLIN PARKWAY NE, SUITE
303, FORT WALTON BEACH, FLORIDA
32548
PHONE 850.837.2448
FAX 850.837.2450
JE@CIVIL.COM
C.O.A. NO. 9927 - L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION	BY
1	7/26/23	REVISED PER FDOT COMMENTS RECEIVED 7/20/23	BF
2	8/17/23	REVISED PER FDOT COMMENTS RECEIVED 08/04/2023	
3	8/26/23	REVISED PER FDOT COMMENTS RECEIVED 08/25/2023	
4	10/25/23	REVISED PER SIGNAL OPERATION	

THE FIKES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
COVER SHEET
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

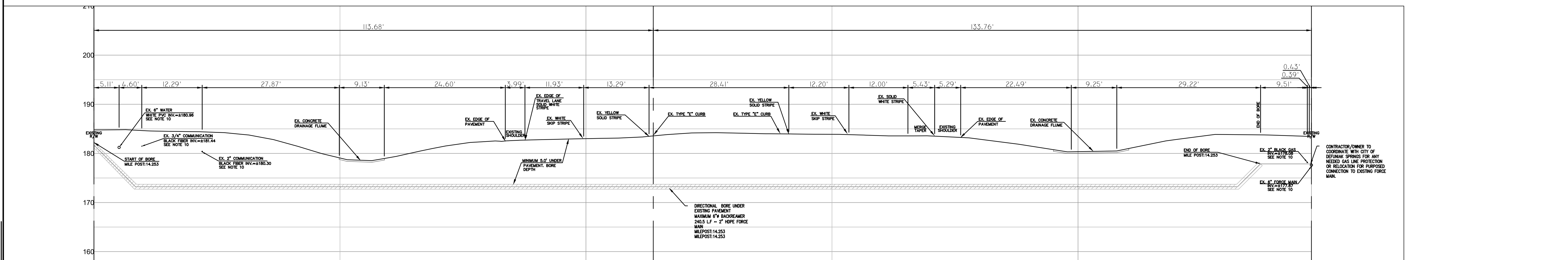
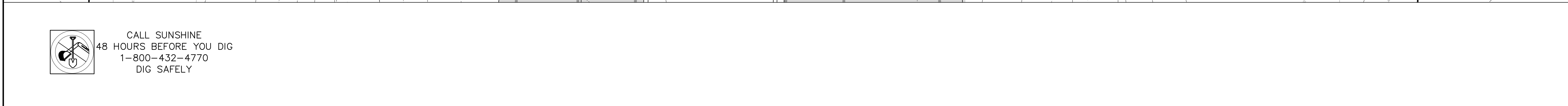
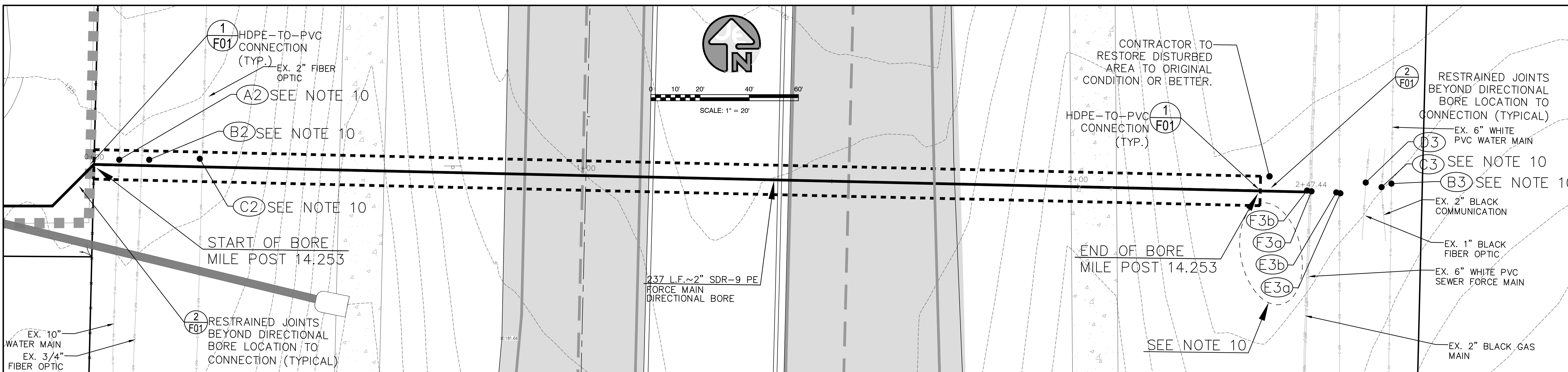
JOB: 22-72
DATE: 7/11/2023
DESIGNED: MZ
DRAWN: BF

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ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
1 OF 8
SHEET NUMBER
F00

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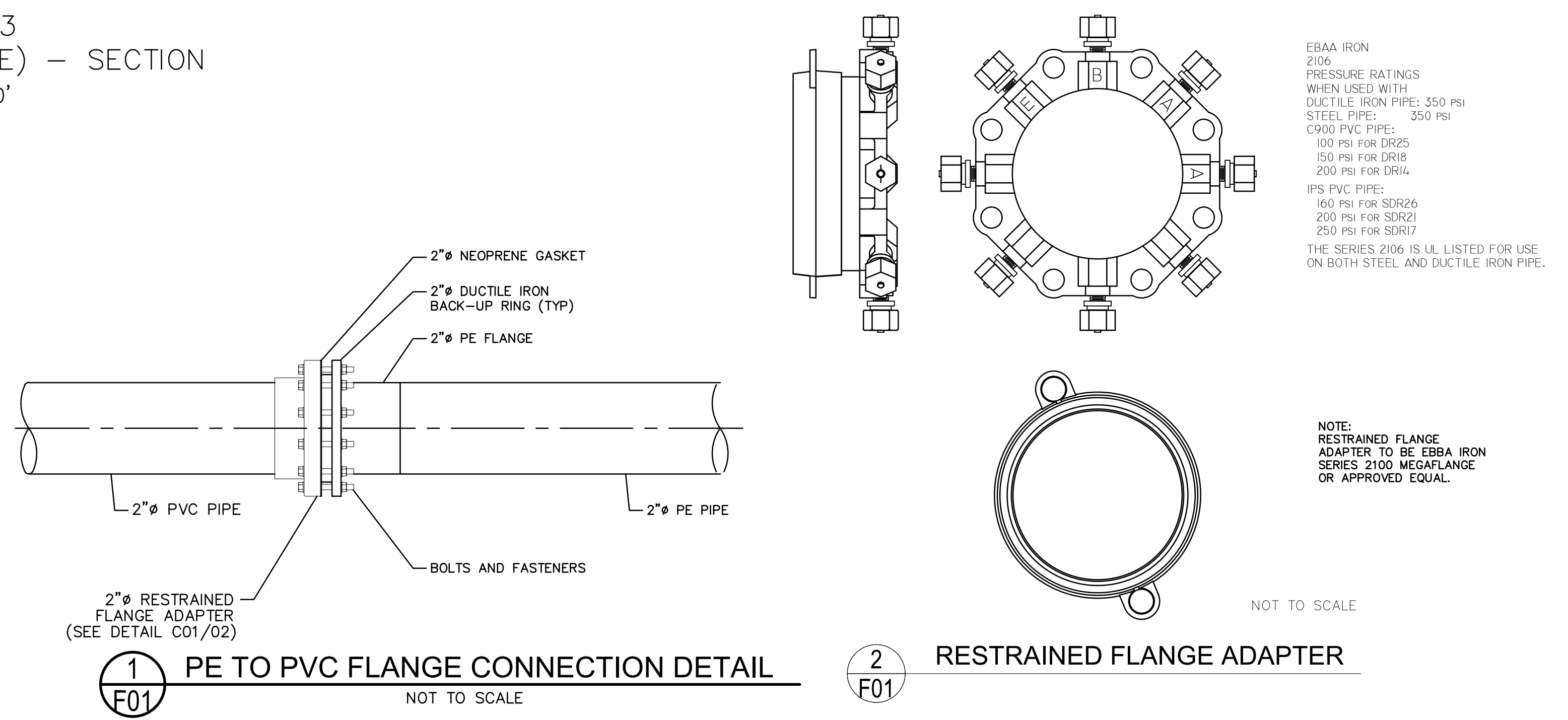
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F.D.O.T. NOTES

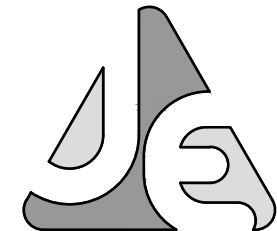
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. LOCATION OR ELEVATION IS SUBSTANTIALLY DIFFERENT FROM THAT SHOWN ON THE PLANS, OR IF CONFLICTS EXIST, THE ENGINEER SHALL BE NOTIFIED.
- THE DEVELOPER SHALL HAVE DEPARTMENT OF TRANSPORTATION UTILITY PERMIT PRIOR TO BEGINNING CONSTRUCTION WITHIN STATE RIGHT-OF-WAY.
- TAPS INTO EXISTING UTILITIES SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY. ALL TAPS SHALL BE MADE IN AN EXPEDITIOUS MANNER TO MINIMIZE INTERRUPTION OF SERVICE.
- SEE SITE CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION.
- CABLE AND POWER ARE ALL AERIAL UTILITIES.
- CONTRACTOR TO PROVIDE THE CITY OF DEFUJIAK SPRINGS AND FDOT A MINIMUM OF 48 HOURS ADVANCE NOTICE PRIOR TO COMMENCEMENT OF DIRECTIONAL BORING SO THAT THEY MAY HAVE A REPRESENTATIVE PRESENT DURING THE BORING INSTALLATION.
- BORING CONTRACTOR TO PROVIDE CITY OF DEFUJIAK SPRINGS AND F.D.O.T. A BORING PROFILE.
- ALL UTILITIES, WITHIN FDOT RIGHT OF WAY, SHALL BE INSTALLED IN ACCORDANCE WITH THE 2017 FDOT UTILITY ACCOMMODATION MANUAL. THE TERMS OF THE PERMIT, ANY OTHER EXECUTED AGREEMENTS BETWEEN THE FDOT AND THE UAO, AND THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- STANDARD PLAN INDEXES 102-600 AND 102-601 ARE RECOMMENDED FOR MDT
- FOR MORE INFORMATION ON SUE SURVEY RESULTS SEE REPORT DATED MARCH 1,2023
- CONTRACTOR TO MAINTAIN A CLEARANCE OF AT LEAST 3.5 TIMES THE BORED DIAMETER FROM ANY EXISTING GAS LINE.
- CONTRACTOR TO PROVIDE ENGINEER AND F.D.O.T. A COMPLETE SET OF AS-BUILTS SHOWING ALL BORES, (SUCCESSFUL AND FAILED)

MILEPOST 14.253
FORCE MAIN (DIRECTIONAL BORE) - SECTION
 HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'



EBAA IRON
 2106
 PRESSURE RATINGS
 WHEN USED WITH
 DUCTILE IRON PIPE: 350 PSI
 STEEL PIPE: 350 PSI
 C900 PVC PIPE:
 100 PSI FOR DR25
 150 PSI FOR DR18
 200 PSI FOR DR14
 IPS PVC PIPE:
 160 PSI FOR SDR26
 200 PSI FOR SDR21
 250 PSI FOR SDR17
 THE SERIES 2106 IS UL LISTED FOR USE
 ON BOTH STEEL AND DUCTILE IRON PIPE.

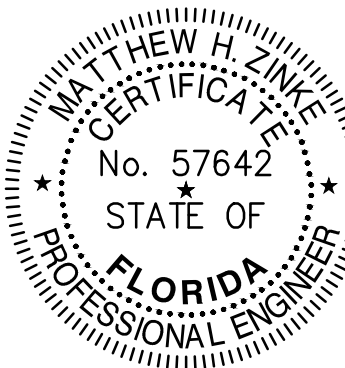
NOTE:
 RESTRAINED FLANGE
 ADAPTER TO BE EBAA IRON
 SERIES 2100 MEGAFRANGE
 OR APPROVED EQUAL.



JENKINS ENGINEERING, INC.

73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450

C.O.A. NO. 9927 - L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
 No. 57642
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

THE FIKES COMPANIES

CEFCO DFS I-10 & 331

CITY OF DEFUJIAK SPRINGS, FLORIDA

F.D.O.T. UTILITY PLAN

NOT VALID UNLESS BEARING ENGINEERS ORIGINAL SIGNATURE

JOB: 20-44

DATE: 6/12/2023

DESIGNED: BF/MZ

DRAWN: BF

BAR IS ONE INCH ON ORIGINAL

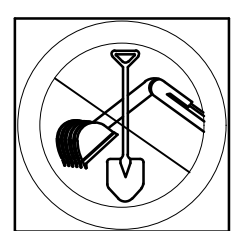
IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
 2 OF 2

SHEET NUMBER
F01

NOT RELEASED FOR CONSTRUCTION

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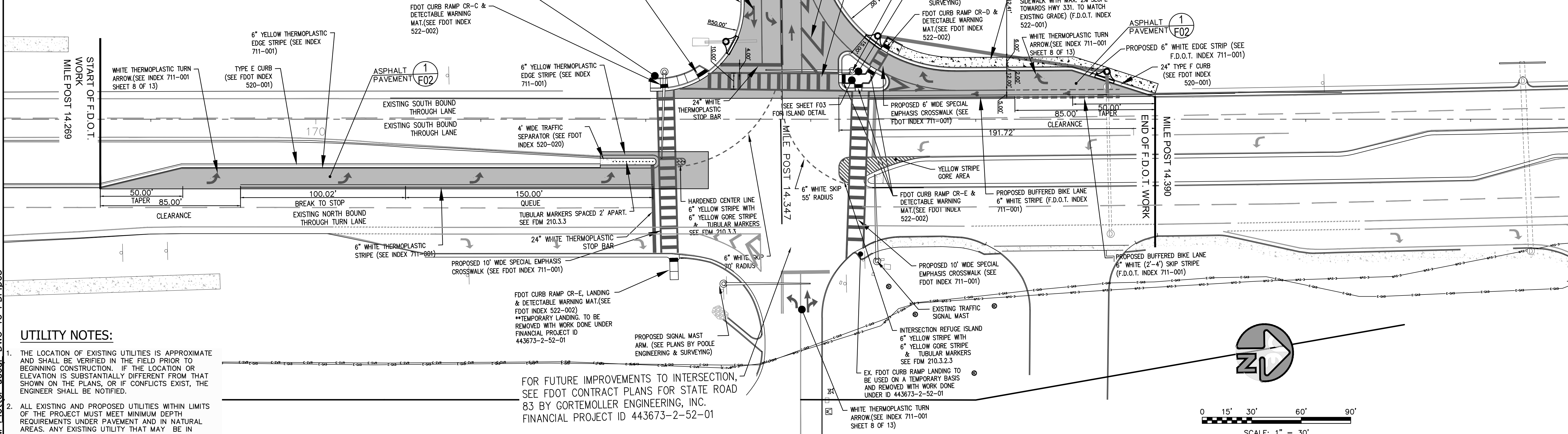


CALL SUNSHINE
 48 HOURS BEFORE YOU DIG
 1-800-432-4770
 DIG SAFELY

N 1'23"15" E - 478.22'(F)

UTILITY COMPANIES:

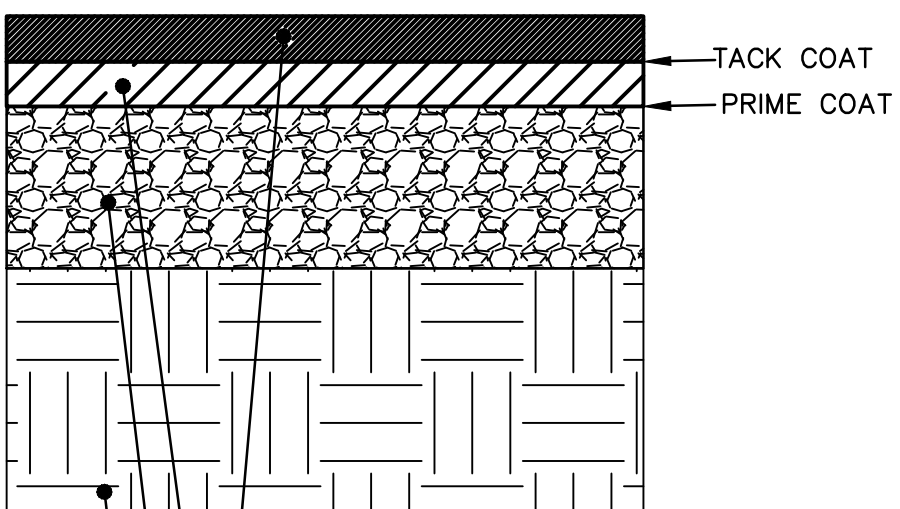
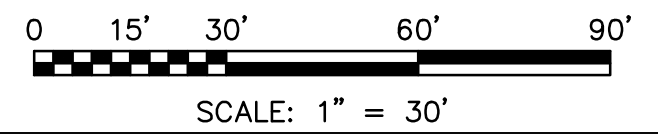
COMPANY	PHONE NO.
CHELCO ELECTRIC	(850) 892-2111
SPECTRUM TELEPHONE	(850) 874-2389
CENTURY LINK	(850) 664-3751
DEFUNIAK SPRINGS WATER & SEWER	(850) 892-8534
DEFUNIAK SPRINGS FIRE DEPT.	(850) 892-8515



UTILITY NOTES:

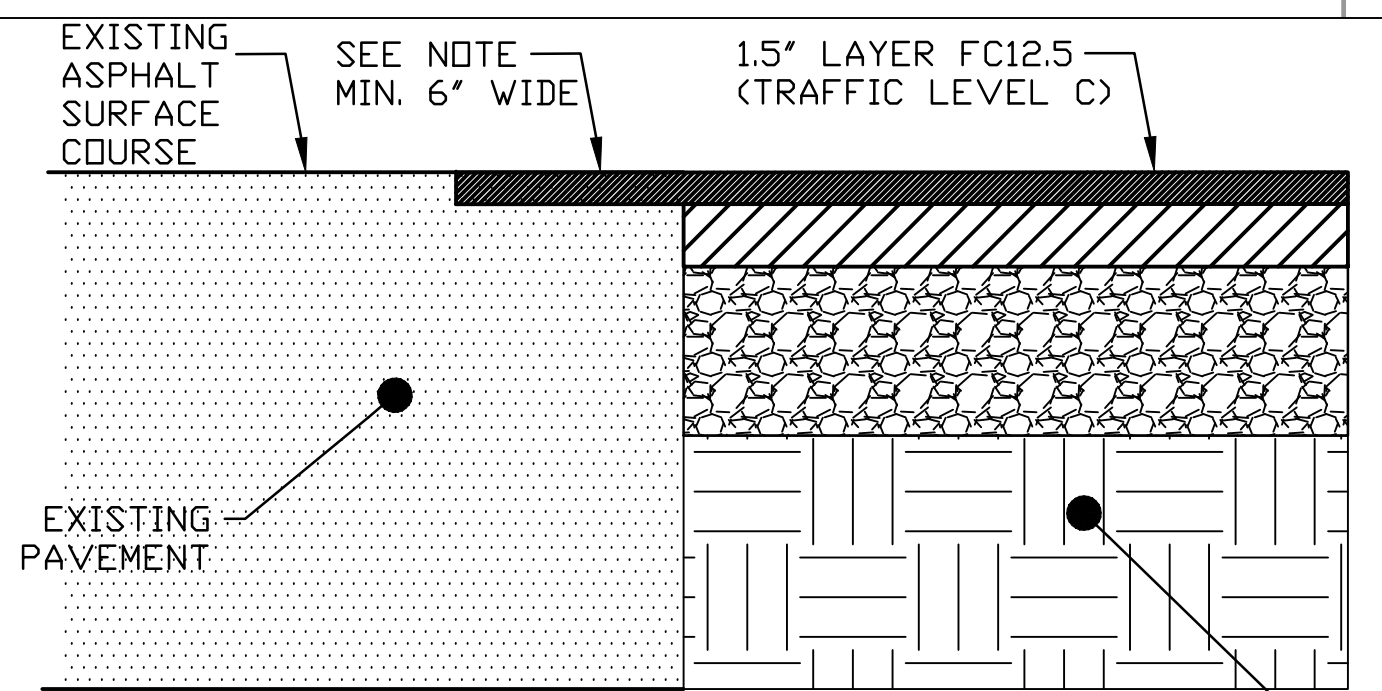
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. IF THE LOCATION OR ELEVATION IS SUBSTANTIALLY DIFFERENT FROM THAT SHOWN ON THE PLANS, OR IF CONFLICTS EXIST, THE ENGINEER SHALL BE NOTIFIED.
- ALL EXISTING AND PROPOSED UTILITIES WITHIN LIMITS OF THE PROJECT MUST MEET MINIMUM DEPTH REQUIREMENTS UNDER PAVEMENT AND IN NATURAL AREAS. ANY EXISTING UTILITY THAT MAY BE IN CONFLICT WITH APPROVED ROADWAY FEATURES FOR THIS PROJECT MUST BE RELOCATED.
- IN ADDITION TO THE RELOCATION OF THE EXISTING UTILITIES SHOWN ON THESE PLANS, FURTHER RELOCATION OF EXISTING UTILITIES MAYBE REQUIRED. CONTRACTOR/DEVELOPER TO COORDINATE WITH UTILITY COMPANIES AS NEEDED.

FOR FUTURE IMPROVEMENTS TO INTERSECTION -
 SEE FDOT CONTRACT PLANS FOR STATE ROAD
 83 BY CORTMOLLER ENGINEERING, INC.
 FINANCIAL PROJECT ID 443673-2-52-01



- 1.5" LAYER TYPE FC 12.5 (TRAFFIC LEVEL C - FRICTION COURSE) SEE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. (PLAN QUANTITIES ARE BASED ON A GMAX OF 2,540, CORRESPONDING TO A SPREAD OF 110 lb/yd³ IN.)
 - 2.0" LAYER TYPE SP 12.5 - (TRAFFIC LEVEL C) F.D.O.T. SPECIFICATION SECTION. SEE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. (PLAN QUANTITIES ARE BASED ON A GMAX OF 2,540, CORRESPONDING TO A SPREAD OF 110 lb/yd³ IN.)
 - 8" LIMEROCK BASE (LBR 100) SEE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. PLACED IN 2 LIFTS. OBTAIN A MINIMUM DENSITY IN ANY LOT OF 98% OF MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM 1-1180, METHOD D OR THE PIT PROCTOR WHEN USING THE PIT PROCTOR OPTION.
 - FILL AND TOP 12" OF SUBGRADE (LBR 40) ** SEE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OBTAIN A MINIMUM QC DENSITY OF 100% OF THE STANDARD PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM 1-1099, METHOD C.
- ** SEE SECTION 4.2 OF NOVA GEOTECHNICAL REPORT DATED 03/14/2023, WHICH REQUIRES THE REMOVAL OF THE IN-SITU CLAYEY SANDS AS THEY ARE UNSUITABLE AS SUBGRADE MATERIAL. THE REPORT STATES THE UNDERCUT SHOULD BE EXTENDED A MINIMUM OF 24" BELOW THE BOTTOM OF THE BASE ELEVATION PER FDOT INDEX 500 AND BACKFILLED WITH SUITABLE SELECT SUBGRADE MATERIAL

ASPHALT PAVEMENT DETAIL
SCALE: N.T.S.



NOTE: KEY IN FRICTION COURSE TO PREVENT LATERAL MOVEMENT. MILL 6"-12" INTO EXISTING ROADWAY PAVEMENT TO INCLUDE REMOVAL OF WHITE/YELLOW LINE. REPLACE MILLED PAVEMENT WITH THE NEW FULL DEPTH FRICTION COURSE FOR TURN LANES, MEDIAN CROSSOVERS OR NEW DRIVEWAYS TO PREVENT STACKING OF ASPHALT JOINTS IN ROADWAY TIE-IN AREAS.

PROPOSED LANE ABUTTING EXISTING PAVEMENT
SCALE: N.T.S.

F.D.O.T. NOTES

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- ENGINEER SHALL SCHEDULE AND HAVE AN ON-SITE PRE-WORK MEETING WITH REPRESENTATIVES FROM THE ENGINEERING FIRM, FDOT, QUALITY CONTROL TESTING LABORATORY, PRIME CONTRACTOR, AND ANY OTHER INTERESTED PARTY PRESENT.
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102-602	TWO-LANE AND MULTILANE, WORK ON SHOULDER	522-001	CONCRETE SIDEWALK
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9. ALL LANE AND SHOULDER CLOSURES MUST BE REQUESTED IN WRITING AND APPROVED A MINIMUM OF 48 HOURS PRIOR TO WORK STARTING. ALLOW UP TO 2 WEEKS FOR APPROVAL PROCESS. CONTACT LOCAL PERMIT'S OFFICE FOR MORE DETAILS AT 850-836-5790 OR 850-836-5742.

10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE SIDE DRAIN PIPES AT PROPER

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12. WITHIN SIGHT OBSTRUCTION FREE AREA, NOTHING SHALL BE CONSTRUCTED OR PLANTED BETWEEN 1.5' AND 10' ABOVE THE CENTERLINE OF THE INTERSECTION.

13. REMOVAL OF EXISTING CURB AND GUTTER AND SIDEWALK SHALL BE TO THE NEAREST CONSTRUCTION JOINT.

14. CONTACT RUSTY WILLIAMS FDOT PONCE DE LEON OPS (850) 836-5790 TO OBTAIN ANY NEEDED UTILITY PERMITS FOR PROJECT.

15. THE POSTED SPEED LIMIT FOR THE US-331/SR 83 CONNECTION IS 45 MPH.

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JENKINS ENGINEERING, INC.
 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 C.O.A. NO. 9927
 L.B. NO. 8081

MATTHEW H. ZINKE
 CERTIFICATE
 No. 57642
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

BY: [Signature] 10/27/23
 10/27/23
 10/27/23
 10/27/23
 10/27/23
 10/27/23

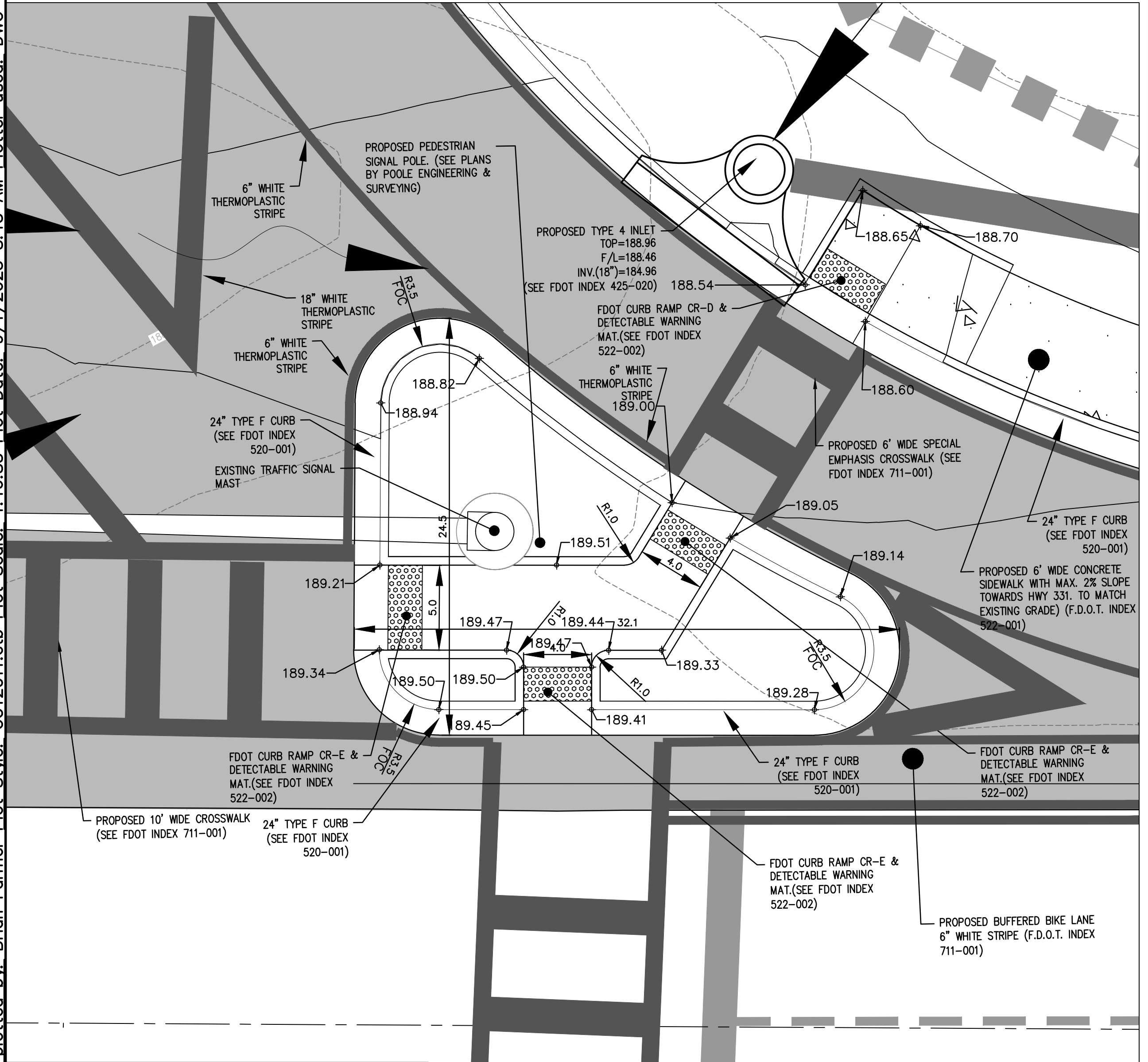
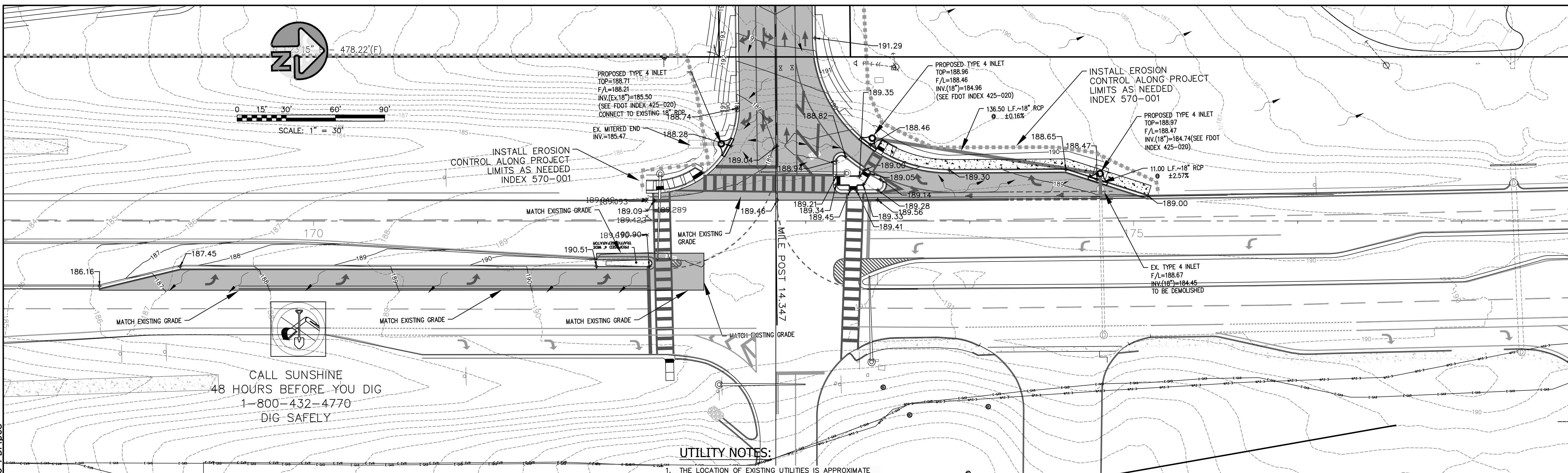
THE FIXES COMPANIES
 CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA
 F.D.O.T. SITE PLAN
 NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
 DATE: 7/11/2023
 DESIGNED: BF/MZ
 DRAWN: BF

BAR IS ONE INCH ON ORIGINAL
 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
 3 OF 8
 SHEET NUMBER
 F02

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2. ALL EXISTING AND PROPOSED UTILITIES WITHIN LIMITS OF THE PROJECT MUST MEET MINIMUM DEPTH REQUIREMENTS UNDER PAVEMENT AND IN NATURAL AREAS. ANY EXISTING UTILITY THAT MAY BE IN CONFLICT WITH APPROVED ROADWAY FEATURES FOR THIS PROJECT MUST BE RELOCATED.
3. IN ADDITION TO THE RELOCATION OF THE EXISTING UTILITIES SHOWN ON THESE PLANS, FURTHER RELOCATION OF EXISTING UTILITIES MAYBE REQUIRED. CONTRACTOR/DEVELOPER TO COORDINATE WITH UTILITY COMPANIES AS NEEDED.

UTILITY COMPANIES:

COMPANY	PHONE NO.
CHELCO ELECTRIC	(850) 892-2111
SPECTRUM TELEPHONE	(850) 874-2389
CENTURY LINK	(850) 664-3751
DEFUNIAK SPRINGS WATER & SEWER	(850) 892-8534
DEFUNIAK SPRINGS FIRE DEPT.	(850) 892-8515

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NOT RELEASED FOR CONSTRUCTION

CURBED ISLAND DETAIL

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 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 JEICVIL.COM
 C.O.A. NO. 9927
 L.B. NO. 8081

MATTHEW H. ZINKE
 CERTIFICATE
 No. 57642
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
1	7/26/23	REVISED PER FDOT COMMENTS RECEIVED 7/20/23
2	8/17/23	REVISED PER FDOT COMMENTS RECEIVED 08/04/2023
3	8/28/23	REVISED PER FDOT COMMENTS RECEIVED 8/25/23
4	9/1/23	REVISED PER FDOT COMMENTS RECEIVED 8/31/23
5		
6		
7		
8		

THE FIKES COMPANIES

CEFCO DFS I-10 & 331

CITY OF DEFUNIAK SPRINGS, FLORIDA

F.D.O.T. DRAINAGE PLAN

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
 DATE: 7/11/2023
 DESIGNED: BF/MZ
 DRAWN: BF

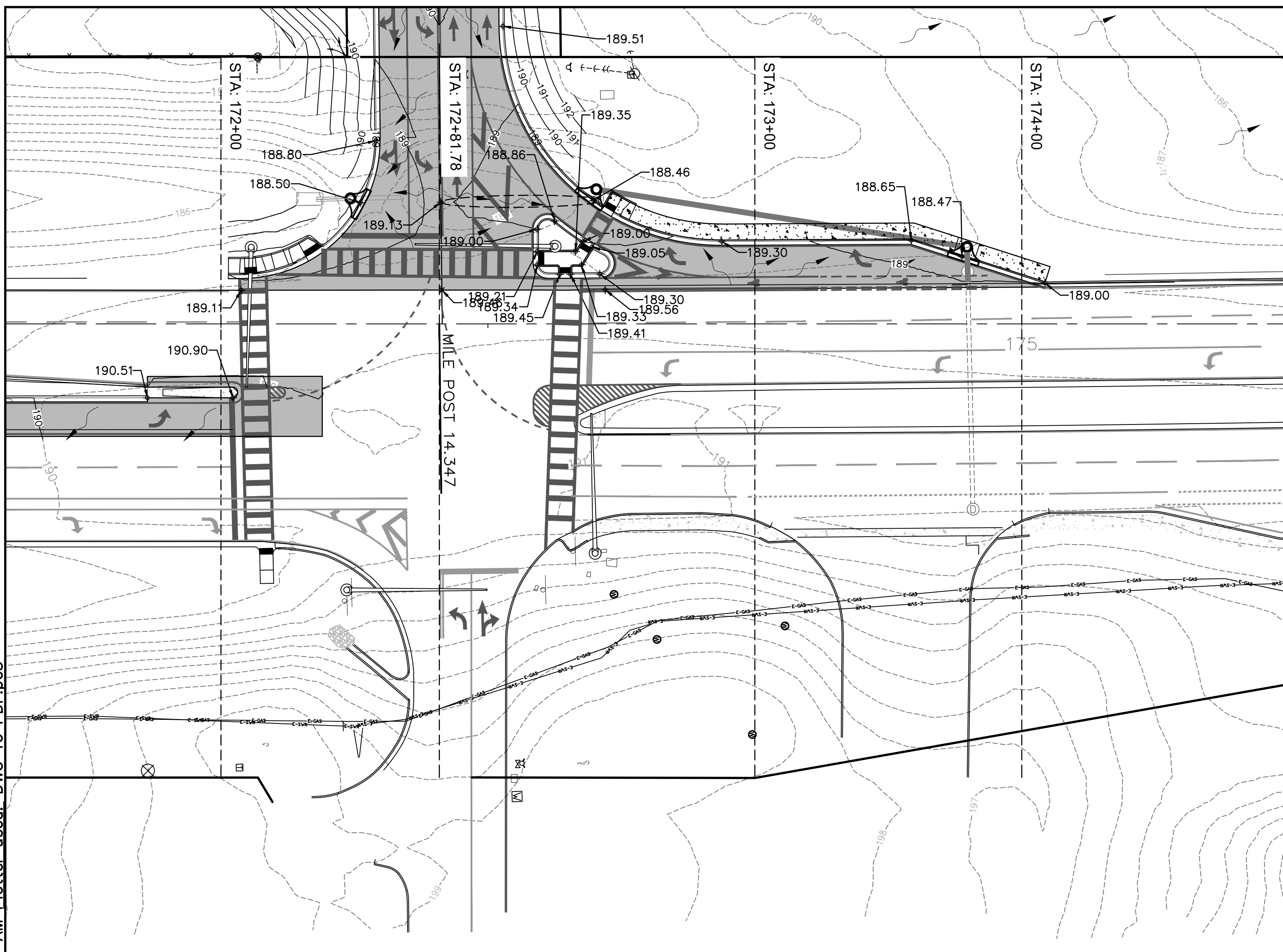
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 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
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SHEET NUMBER
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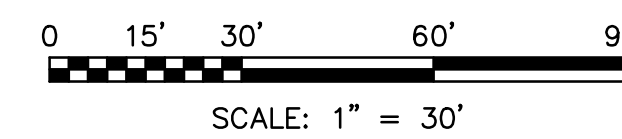
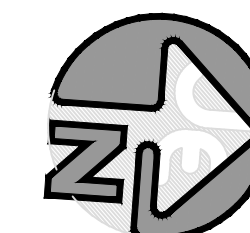


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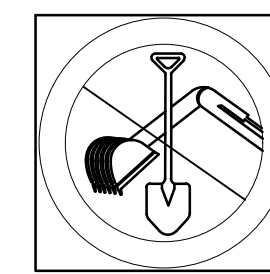
- PROPERTY LINE
- EX. GRADE CONTOUR (1' INTERVALS)
- FINISHED GRADE CONTOUR
- FINISHED GRADE SPOT ELEVATION
- SILT FENCE LOCATION
- REINFORCED CONCRETE PIPE

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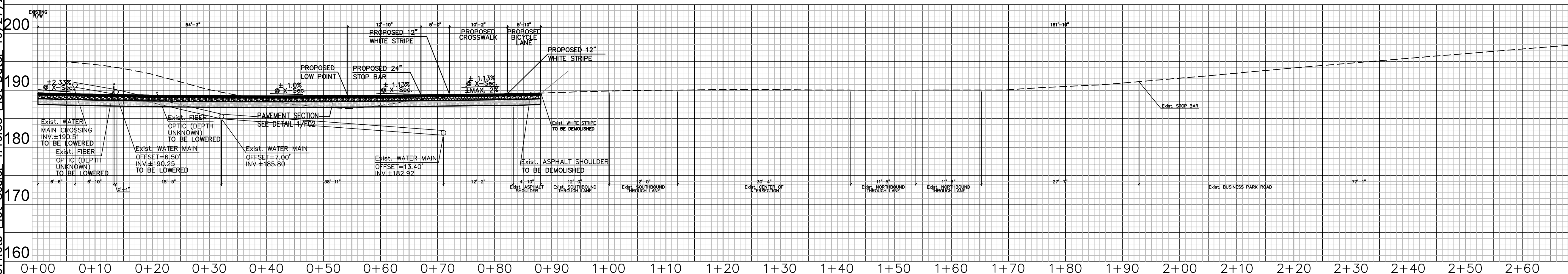
SCALE: 1" = 30'



CALL SUNSHINE
48 HOURS BEFORE YOU DIG
1-800-432-4770
DIG SAFELY

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MILE POST: 14.347

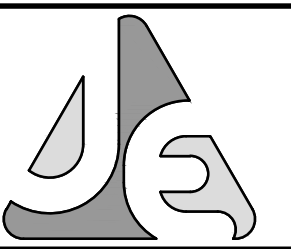
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425-020	CURB INLET TOPS-TYPES 1, 2, 3 AND 4	700-102	SPECIAL SIGN DETAILS
430-022	SIDE DRAIN MITERED END SECTION	706-001	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS
		711-001	PAVEMENT MARKINGS

UTILITY COMPANIES:

COMPANY	PHONE NO.
CHELCO ELECTRIC.....	(850) 892-2111
SPECTRUM TELEPHONE	(850) 874-2389
CENTURY LINK	(850) 664-3751
DEFUNIAK SPRINGS WATER & SEWER	(850) 892-8534
DEFUNIAK SPRINGS FIRE DEPT.	(850) 892-8515

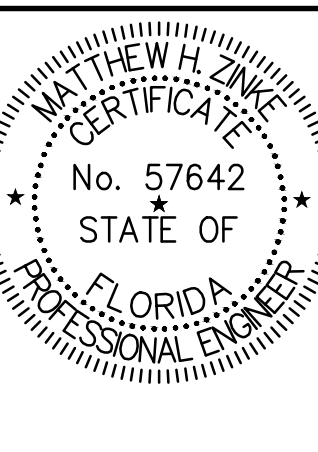
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JENKINS ENGINEERING, INC.

73 EGLIN PARKWAY NE, SUITE 203
FORT WALTON BEACH, FLORIDA 32548
PHONE 850.837.2448
FAX 850.837.2450
JEICVIL.COM

L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION
1	7/26/23	REVISED PER FDOT COMMENTS RECEIVED 7/20/23
2	10/25/23	REVISED PER SIGNAL OPERATION AND CLIENT
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THE FIKES COMPANIES
CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
F.D.O.T. DRIVEWAY CROSS-SECTION
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

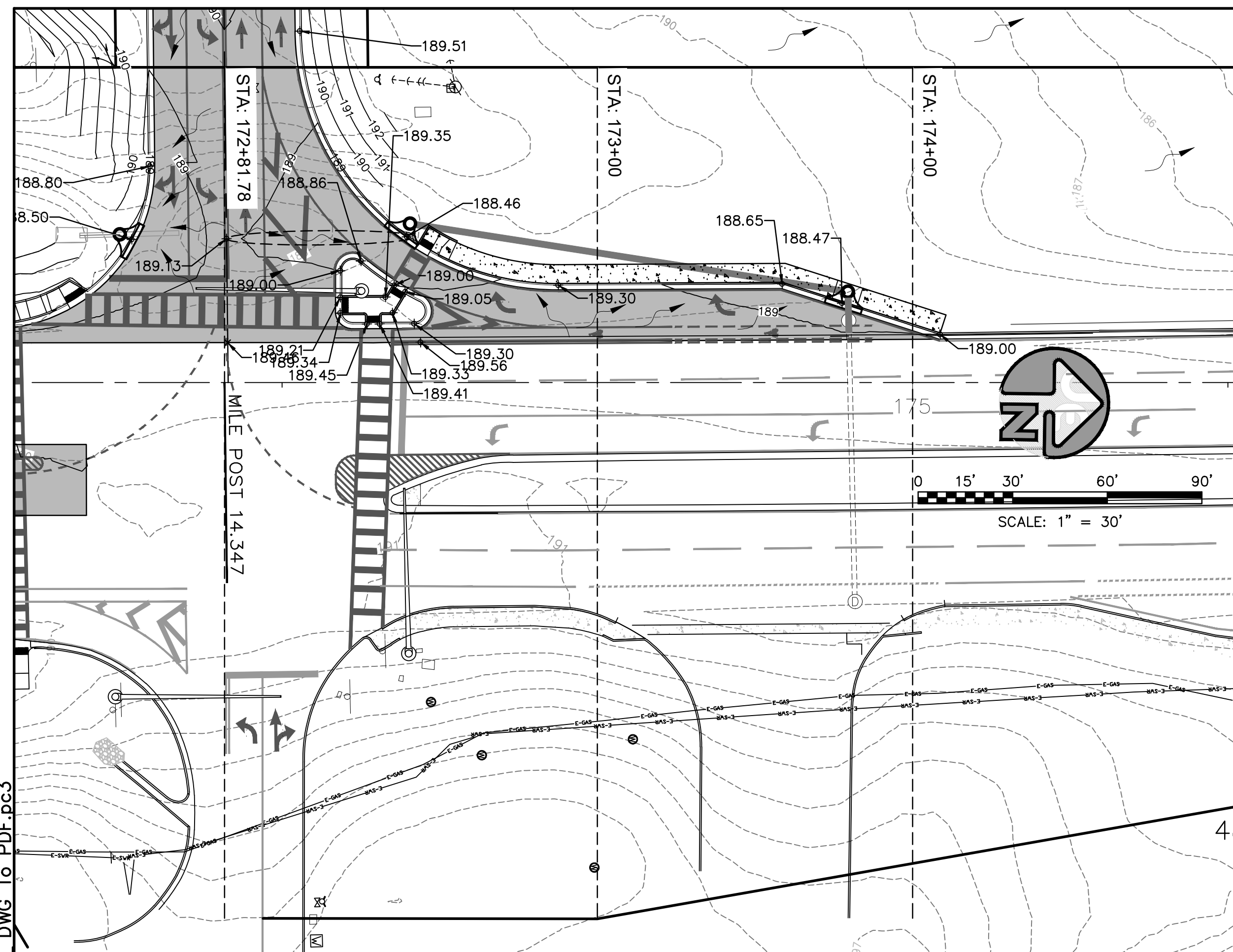
JOB: 22-72
DATE: 7/11/2023
DESIGNED: BF/MZ
DRAWN: BF

BAR IS ONE INCH ON ORIGINAL
IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
5 OF 8

SHEET NUMBER
F04

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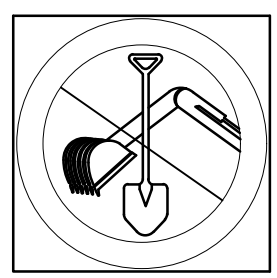


LEGEND:

- PROPERTY LINE ---
- EX. GRADE CONTOUR (1' INTERVALS) - - - -
- FINISHED GRADE CONTOUR —
- FINISHED GRADE SPOT ELEVATION •21.30
- SILT FENCE LOCATION ○-○-○-○
- REINFORCED CONCRETE PIPE =RCP=

UTILITY NOTES:

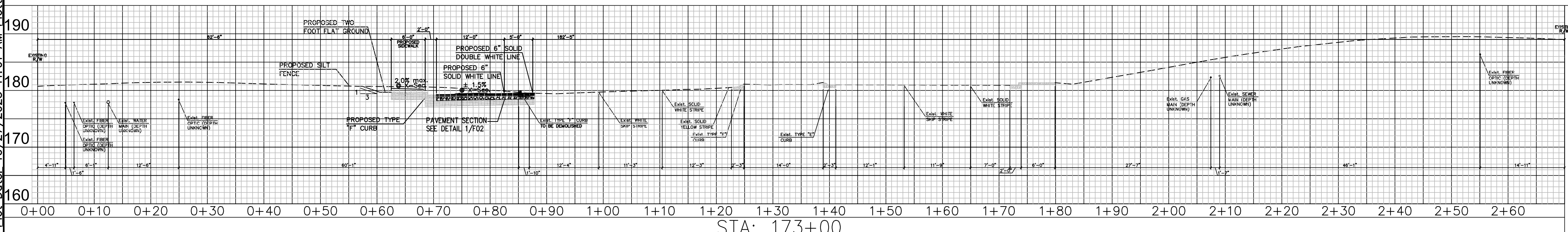
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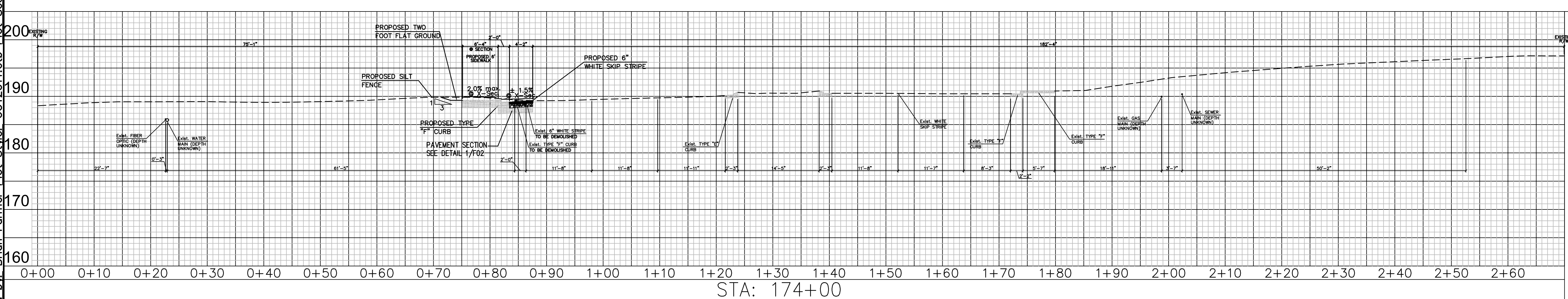
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STA: 173+00



STA: 174+00

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CENTURY LINK	(850) 664-3751
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DEFUNIAK SPRINGS FIRE DEPT.	(850) 892-8515

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 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 JE/CIVIL/COM
 C.O.A. NO. 9927

MATTHEW H. ZINKE
 CERTIFICATE
 No. 57642
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
1	7/26/23	REVISED PER FDOT COMMENTS RECEIVED 7/20/23
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BY: _____

THE FIKES COMPANIES

CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA

F.D.O.T. RIGHT TURN CROSS-SECTION
 NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

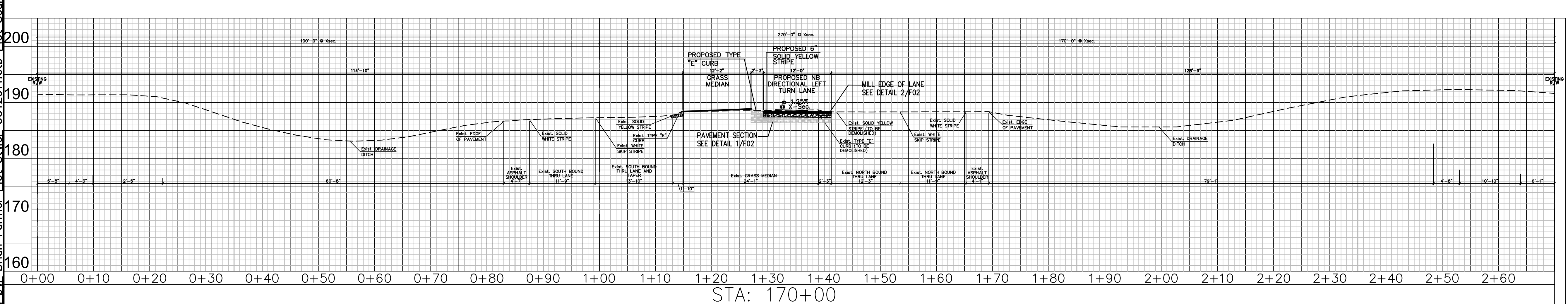
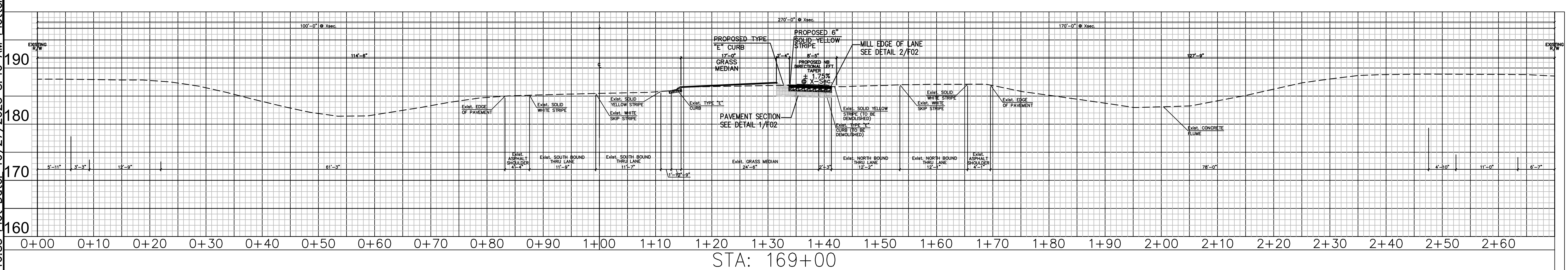
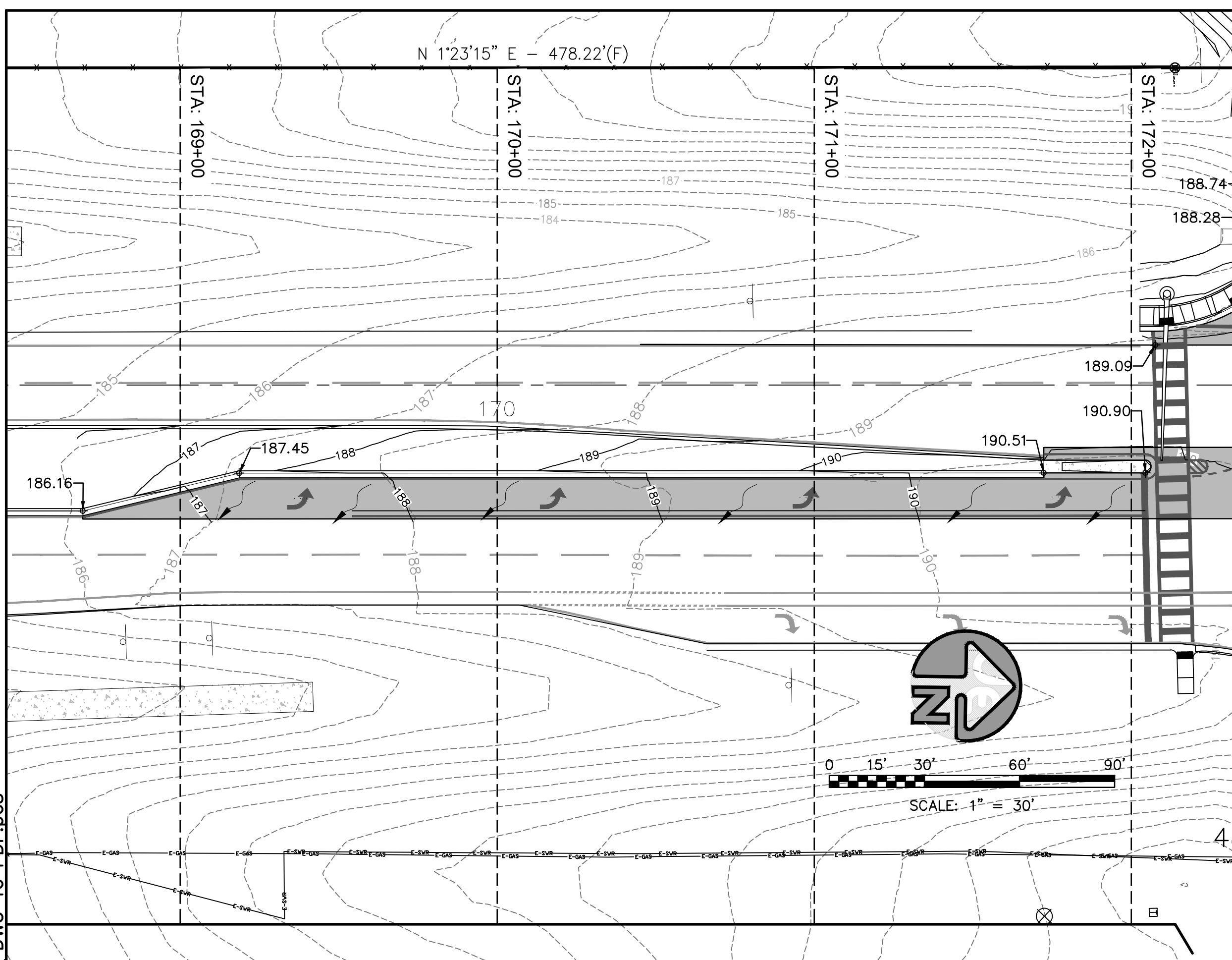
JOB: 22-72
 DATE: 7/11/2023
 DESIGNED: BF/MZ
 DRAWN: BF

BAR IS ONE INCH ON ORIGINAL
 IF NOT ONE INCH ON THIS SHEET
 ADJUST SCALES ACCORDINGLY

DRAWING NUMBER
 6 OF 8

SHEET NUMBER
 F05

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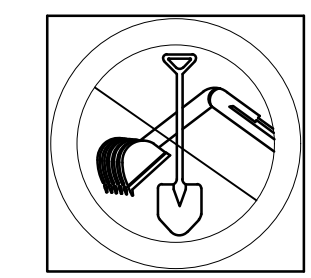
STA: 169+00
 STA: 170+00
 NOT RELEASED FOR CONSTRUCTION

LEGEND:

- PROPERTY LINE ---
- EX. GRADE CONTOUR ---
- FINISHED GRADE CONTOUR ---
- FINISHED GRADE SPOT ELEVATION •21.30
- SILT FENCE LOCATION ---o---o---
- REINFORCED CONCRETE PIPE ---RCP---

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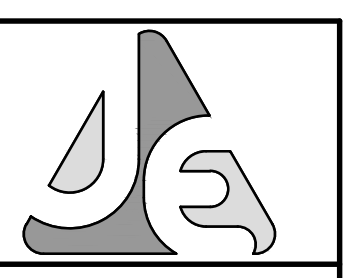
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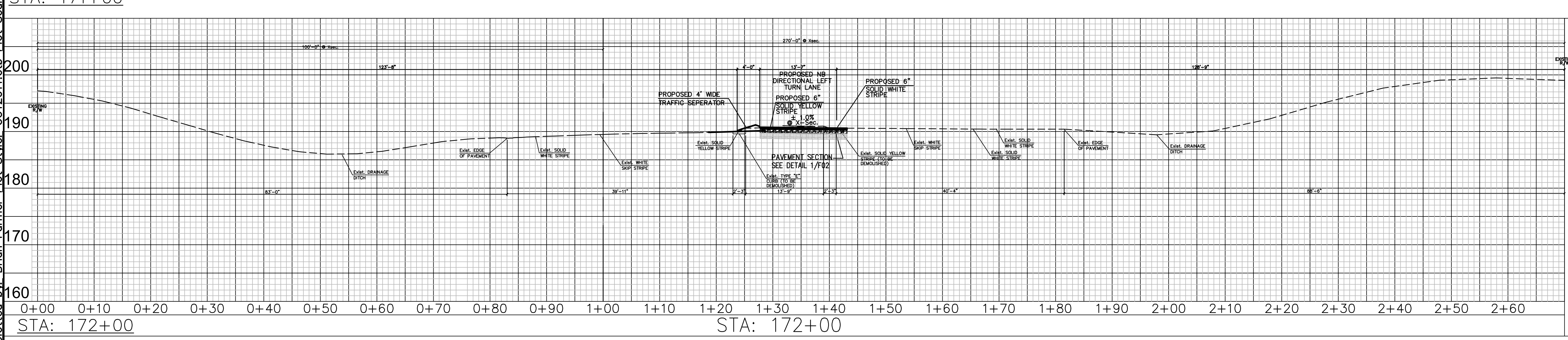
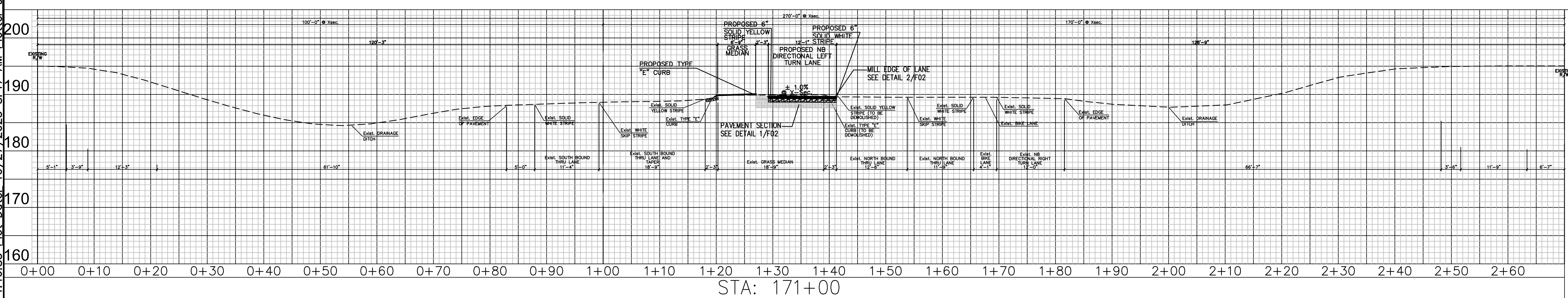
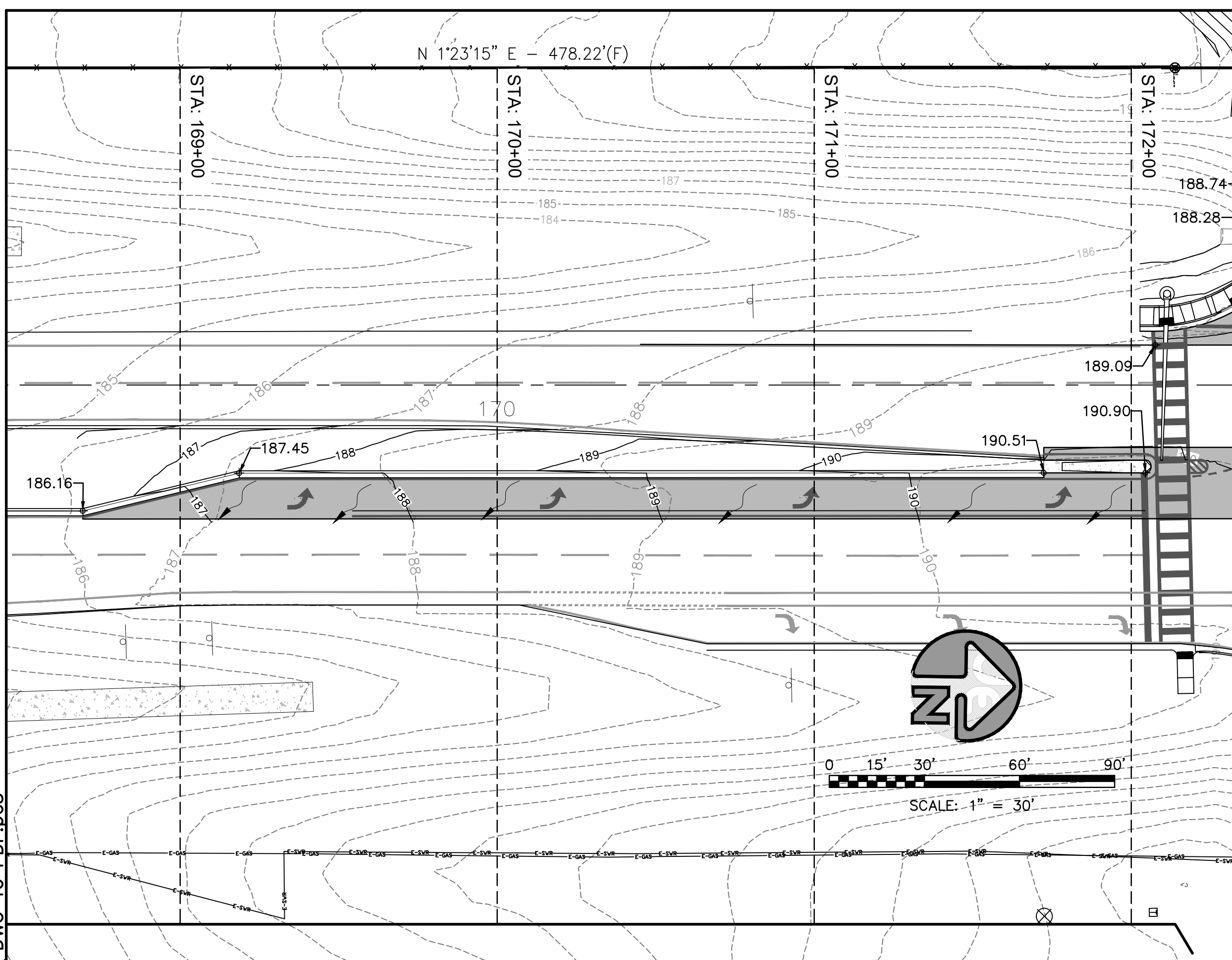
REV	DATE	DESCRIPTION
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THE FIKES COMPANIES
 CEFCO DFS I-10 & 331
 CITY OF DEFUNIAK SPRINGS, FLORIDA
 F.D.O.T. LEFT TURN CROSS-SECTION I
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
 DATE: 7/11/2023
 DESIGNED: BF/MZ
 DRAWN: BF

BAR IS ONE INCH ON ORIGINAL
 0 1" ADJUST SCALES ACCORDINGLY
 DRAWING NUMBER 7 OF 8
 SHEET NUMBER F06

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 Last plotted by: Brian Farmer Plot Scale: 1:16.83 Plot Date: 10/27/2023 8:47 AM Plotter used: DWG To PDF.pc3



NOT RELEASED FOR CONSTRUCTION

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 - CONTRACTOR MUST SUBMIT A QUALITY CONTROL PLAN FOR FDOT REVIEW AND APPROVAL BEFORE OR AT THE REQUIRED PRE-WORK MEETING. QUALITY CONTROL TESTING SHALL BE PERFORMED BY FDOT CERTIFIED TECHNICIANS AND TESTING LABORATORY. ALL TEST RESULTS SHALL BE PROVIDED TO FDOT AS SOON AS PRACTICAL.
 - SOD AREAS WITHIN 32' OF EDGE OF PAVEMENT & SLOPES GREATER THAN 1:3. OTHER DISTURBED AREAS MAY BE REPAIRED BY SEEDING OR HYDRO-SEEDING. SEE FDOT STANDARD PLANS INDEX 570-010 AND SECTION 570 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
 - ALL STRIPING WITHIN FDOT RIGHT OF WAY SHALL BE THERMOPLASTIC AND ADHERE TO STANDARD PLANS INDEX 711-001 AND SECTION 711 OF THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION. STANDARD SPEC 711-4.1 STATES: WAIT AT LEAST 14 DAYS AFTER CONSTRUCTING THE FINAL ASPHALT COURSE TO PLACE THERMOPLASTIC PAVEMENT MARKINGS. INSTALLATION OF THERMOPLASTIC ON CONCRETE REQUIRES A CLEAN, DRY SURFACE. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR SURFACE PREPARATION FOR THERMOPLASTIC ON CONCRETE. PROVIDE TEMPORARY PAVEMENT MARKINGS DURING THE INTERIM PERIOD, PRIOR TO OPENING THE ROAD TO TRAFFIC. APPLY OR RECAP STANDARD THERMOPLASTIC PAVEMENT MARKINGS FOR LONGITUDINAL LINES TO ATTAIN A MINIMUM THICKNESS OF 0.10 INCH OR 100 MILS AND A MAXIMUM THICKNESS 0.15 INCH OR 150 MILS WHEN MEASURED ABOVE THE PAVEMENT SURFACE. MARKINGS OTHER THAN LONGITUDINAL LINES, WHEREVER LOCATED, WILL HAVE A THICKNESS OF 0.09 INCH OR 90 MILS TO 0.12 INCH OR 120 MILS WHEN MEASURED ABOVE THE PAVEMENT SURFACE.
 - ALL LANE AND SHOULDER CLOSURES MUST BE REQUESTED IN WRITING AND APPROVED A MINIMUM OF 48 HOURS PRIOR TO WORK STARTING. ALLOW UP TO 2 WEEKS FOR APPROVAL PROCESS. CONTACT LOCAL PERMITS OFFICE FOR MORE DETAILS AT 850-836-5790 OR 850-836-5742.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE SIDE DRAIN PIPES AT PROPER ELEVATIONS TO MATCH THE FLOW LINE OF THE DRAINAGE DITCH (NO SEDIMENT BUILDUP) TO ENSURE POSITIVE STORM WATER FLOW.
 - APPROVAL FOR ALL LANE CLOSURES, MOBILE OPERATIONS, AND TRAFFIC PACING OPERATIONS IS REQUIRED. SUBMIT ROUTINE REQUESTS TO THE ENGINEER FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF PLANNED LANE CLOSURES, MOBILE OPERATIONS, AND TRAFFIC PACING OPERATIONS. FOR UNFORESEEN EVENTS THAT REQUIRE CANCELING OR RESCHEDULING LANE CLOSURES, MOBILE OPERATIONS, AND TRAFFIC PACING OPERATIONS, REVISE THE LANE CLOSURE REQUEST AS SOON AS POSSIBLE.
 - WITHIN SIGHT OBSTRUCTION FREE AREA, NOTHING SHALL BE CONSTRUCTED OR PLANTED BETWEEN 1.5' AND 10' ABOVE THE CENTERLINE OF THE INTERSECTION.
 - REMOVAL OF EXISTING CURB AND GUTTER AND SIDEWALK SHALL BE TO THE NEAREST CONSTRUCTION JOINT.
 - CONTACT RUSTY WILLIAMS FDOT PONCE DE LEON OPS (850) 836-5790 TO OBTAIN ANY NEEDED UTILITY PERMITS FOR PROJECT.
 - THE POSTED SPEED LIMIT FOR THE US-331/SR 83 CONNECTION IS 45 MPH.
 - THE PERMITTEE AGREES AND OBLIGATES HIMSELF TO PERFORM AT HIS OWN EXPENSE THE RELOCATION, CLOSURE, ALTERATION OF THE PERMITTED CONNECTION SHOULD THE DEPARTMENT DETERMINE THAT THE TRAFFIC PATTERNS, POINTS OF CONNECTION, ROADWAY GEOMETRICS OR TRAFFIC CONTROL DEVICES ARE CAUSING AN UNDUE DISRUPTION OF TRAFFIC OR CREATING SAFETY HAZARDS AT THE EXISTING CONNECTION.

UTILITY COMPANIES:

COMPANY	PHONE NO.
CHELCO ELECTRIC.....	(850) 892-2111
SPECTRUM TELEPHONE	(850) 874-2389
CENTURY LINK	(850) 664-3751
DEFUNIAK SPRINGS WATER & SEWER	(850) 892-8534
DEFUNIAK SPRINGS FIRE DEPT.	(850) 892-8515

JENKINS ENGINEERING, INC.
 73 EGLIN PARKWAY NE, SUITE 203
 FORT WALTON BEACH, FLORIDA 32548
 PHONE 850.837.2448
 FAX 850.837.2450
 C.O.A. NO. 9927

MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION
1	7/26/23	REVISED PER FDOT COMMENTS RECEIVED 7/20/23
2		
3		
4		
5		
6		
7		
8		

THE FIKES COMPANIES

CEFCO DFS I-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA

F.D.O.T. LEFT TURN CROSS-SECTION II
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 22-72
DATE: 7/11/2023
DESIGNED: BF/MZ
DRAWN: BF

BAR IS ONE INCH ON ORIGINAL
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

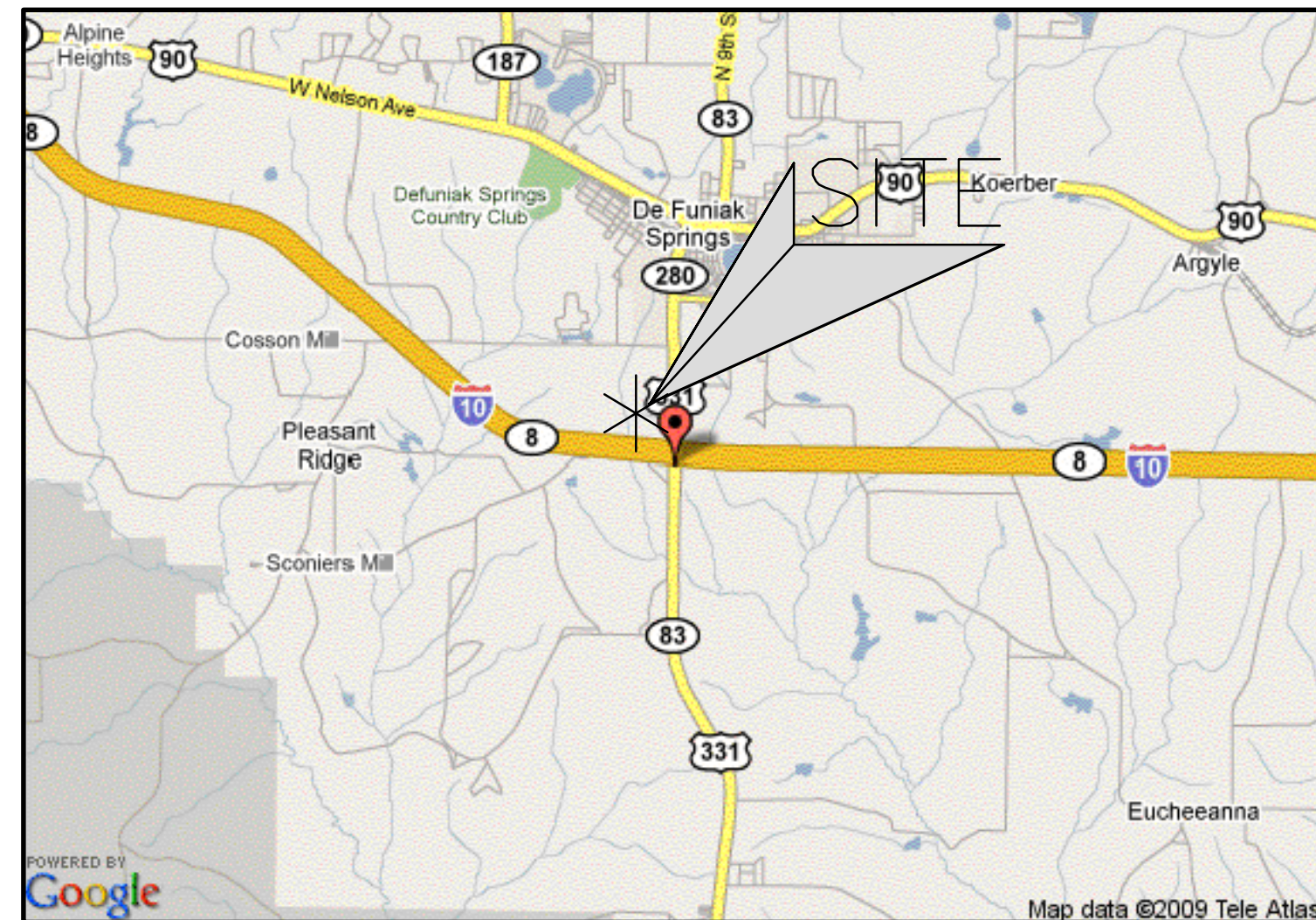
DRAWING NUMBER 8 OF 8
SHEET NUMBER F07

CONSTRUCTION PLANS FOR:

CEFCO DFS 1-10 & 331 F.D.O.T. CONNECTION DeFUNIAK SPRINGS, FLORIDA

PREPARED FOR:

THE FIKES COMPANIES
C/O Denise Anderson, CCIM
9764 Whithorn Drive
Houston, TX 77095
Phone: (281) 382-7117



VICINITY
MAP
NOT TO SCALE

DIRECTIONS TO LOCATE SITE:

LATITUDE = 30°41'42.50"N
LONGITUDE = 86°07'29"W
SECTION = 25
TOWNSHIP = 2 NORTH
RANGE = 19 WEST
COUNTY = WALTON

THE PROJECT SITE IS LOCATED IN THE CITY OF DEFUNIAK SPRINGS, WALTON COUNTY, FLORIDA, AT THE NORTH WEST QUADRANT OF HWY 331 AND INTERSTATE 10.

UTILITY PROVIDERS

(WATER/SEWER/GAS)
CITY OF DEFUNIAK SPRINGS
45 N PARK ST
DEFUNIAK SPRINGS, FL 32433
(850) 892-8534

(TELEPHONE)
SPECTRUM
94 WALTON RD
DEFUNIAK SPRINGS, FL 32433
(850) 874-2389

(ELECTRIC)
CHELCO ELECTRIC
1350 W. BALDWIN AVENUE
DEFUNIAK SPRINGS, FL 32435
(850) 892-2111

(FIRE DISTRICT)
DEFUNIAK SPRINGS FIRE DEPARTMENT
58 W BURDICK AVE
DEFUNIAK SPRINGS, FL 32433
(850) 892-8515

GOVERNMENTAL AGENCIES HAVING JURISDICTION

FLORIDA DEPARTMENT OF TRANSPORTATION
RUSTY WILLIAMS
(850) 836-5790

CITY OF DEFUNIAK SPRINGS
(PLANNING DEPARTMENT)
CHRISTOPHER WALLACE, AICP - PLANNING DIRECTOR
(850) 892-8571, EXT. 1116

(PUBLIC WORKS)
CRAIG DRAKE - PUBLIC WORKS DIRECTOR
(850) 892-8534, EXT. 1127

AUTHORITY AND RESPONSIBILITY

THE ENGINEER, AS REPRESENTATIVE OF THE OWNER, SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OR PERSONS DOING THE WORK, SHALL NOT HAVE CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS, OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY THE STRUCTURAL WORK ACT.

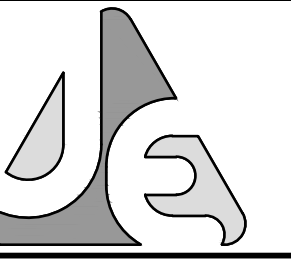
SITE ADDRESS

S. US HWY 331
DEFUNIAK SPRINGS, FL
32435

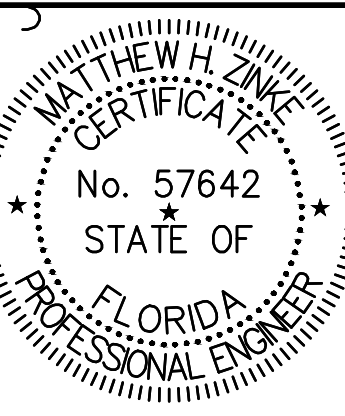
PROJECT NARRATIVE

PROJECT CONSISTS OF A CEFCO GAS STATION WITH 24 FUELING STATIONS AND A 6,000 SQ. FT. CONVENIENCE STORE WITH A PROPOSED FULL ACCESS CONNECTION ONTO HWY 331. THE CONNECTION WILL BE THE 4TH LEG OF THE EXISTING INTERSECTION OF HWY 331 AND BUSINESS PARK ROAD AND WILL INCLUDE RIGHT AND LEFT TURN LANES AND SIGNAL IMPROVEMENTS.

SHEET INDEX		
DRAWING	SHEET	TITLE
1	F00	COVER SHEET
2	F01	F.D.O.T. NEIGHBORING CONNECTION SURVEY & DEMOLITION PLAN
3	F02	F.D.O.T. SITE PLAN
4	F03	F.D.O.T. DRAINAGE PLAN
5	F04	F.D.O.T. DRIVEWAY CROSS-SECTION
6	F05	F.D.O.T. RIGHT TURN CROSS-SECTION
7	F06	F.D.O.T. LEFT TURN CROSS-SECTION I
8	F07	F.D.O.T. LEFT TURN CROSS-SECTION II



JENKINS ENGINEERING, INC.
73 EGLIN PARKWAY NE, SUITE
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JE@CIVIL.COM
C.O.A. NO. 9927 - L.B. NO. 8081



MATTHEW H. ZINKE, P.E.
FL. REGISTRATION NO. 57642

REV	DATE	DESCRIPTION	BY
1	7/26/23	REVISED PER FDOT COMMENTS RECEIVED 7/20/23	BF
2	8/17/23	REVISED PER FDOT COMMENTS RECEIVED 08/04/2023	
3	8/28/23	REVISED PER FDOT COMMENTS RECEIVED 08/25/2023	
4	9/1/23	REVISED PER FDOT COMMENTS RECEIVED 8/31/23	

THE FIKES COMPANIES
CEFCO DFS 1-10 & 331
CITY OF DEFUNIAK SPRINGS, FLORIDA
COVER SHEET
NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

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DRAWING NUMBER
1 OF 8
SHEET NUMBER
F00

File: C:\Users\RBFB\OneDrive\Documents\Drawings\CEFCO DFS Truck Stop 1-10 & 331 2023-7-25.dwg Last Save: 9/1/2023 7:59 AM Last saved by: RBFB
Last plotted by: Brian Farmer Plot Style: GCT2011.ctb Plot Scale: 1:0.94 Plot Date: 9/1/2023 8:14 AM Plotter used: DWG To PDF.pc3

1 GENERAL CONDITIONS

PART 1 - GENERAL

1.1 SCOPE OF WORK: THE WORK INCLUDED IN THE CONTRACT FOR THIS PROJECT CONSISTS OF THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETE CONSTRUCTION OF AN UNDERGROUND FUEL INSTALLATION FOR THE PROJECT HEREBY REPRESENTED.

PART 2 - AGREEMENT

2.1 CONTRACTOR FORM SHALL BE THE OWNERS "CONSTRUCTION AGREEMENT" DATED, AND RELATED INSURANCE SPECIFICATIONS. A COPY OF THIS CONTRACT IS AVAILABLE THROUGH THE OWNERS OFFICE OR SITE MANAGER FOR REVIEW.

2.2 OWNER: WHENEVER THE WORD "OWNER" APPEARS IN THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, IT SHALL BE DEEMED TO READ: CEFECO

2.3 CONTRACTOR: WHENEVER THE WORD "CONTRACTOR" APPEARS IN THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, IT SHALL BE DEEMED TO READ "GENERAL UNDERGROUND FUEL/DEF INSTALLATION CONTRACTOR."

PART 3 - INTENT OF DRAWINGS AND SPECIFICATIONS

3.1 THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PRESCRIBE A COMPLETE WORK OR IMPROVEMENT WHICH THE CONTRACTOR UNDERTAKES TO DO IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DO ALL WORK AS MAY BE NECESSARY TO COMPLETE THE WORK IN A SATISFACTORY AND ACCEPTABLE MANNER.

3.2 THE CONTRACTOR SHALL, UPON DISCOVERY, REPORT ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS TO THE OWNERS CONSTRUCTION MANAGER.

3.3 THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN IN THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH. GENERALLY, THE SPECIFICATIONS DESCRIBE WORK WHICH CANNOT BE READILY IDENTIFIED ON THE DRAWINGS AND INDICATE TYPES, QUALITIES, AND METHODS OF INSTALLATION OF THE VARIOUS MATERIALS AND EQUIPMENT REQUIRED FOR THE WORK. IT IS NOT INTENDED TO MENTION EVERY ITEM OF WORK IN THE SPECIFICATIONS WHICH CAN BE ADEQUATELY SHOWN ON THE DRAWINGS NOR TO SHOW ON THE DRAWINGS ALL ITEMS OF WORK DESCRIBED OR REQUIRED BY THE SPECIFICATIONS EVEN IF THEY ARE OF SUCH NATURE THAT THEY COULD HAVE BEEN SHOWN THEREON. ALL MATERIALS OR LABOR FOR WORK WHICH IS SHOWN ON THE DRAWINGS OR IS REASONABLY INFERRABLE AS BEING NECESSARY TO PROVIDE A FINISHED JOB SHALL BE PROVIDED BY THE CONTRACTOR WHETHER OR NOT THE WORK IS EXPRESSLY COVERED IN THE SPECIFICATIONS.

3.4 THE CONTRACTOR, SUBCONTRACTORS AND ALL TRADES SHALL EXAMINE THE SITE AND ASCERTAIN EXISTING CONDITIONS PRIOR TO THE START OF THEIR PORTIONS OF THE WORK. BEFORE ORDERING MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL MEASUREMENTS AT THE SITE. ANY DIFFERENCES WHICH MAY BE FOUND BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNERS ATTENTION FOR CONSIDERATION BEFORE PROCEEDING WITH THE ACTUAL DIMENSIONS AND MEASUREMENTS INDICATED ON DRAWINGS UNLESS A SUBSTANTIAL ERROR HAS BEEN MADE. IF SUCH AN ERROR SHOULD OCCUR, IT SHALL BE BROUGHT TO THE ATTENTION OF THE OF THE OWNER AND OWNERS AGENT AND RESOLVED BEFORE PROCEEDING WITH WORK.

3.5 THE ORGANIZATION OF SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS, AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.

3.6 DRAWINGS AND SPECIFICATIONS: DRAWINGS INDICATE GENERAL DESIGN AND ARRANGEMENTS. DRAWINGS ARE DIAGRAMATIC AND ARE NOT SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND EQUIPMENT TO BE FURNISHED. VERIFY DIMENSIONS IN THE FIELD.

PART 4 - RESPONSIBILITY OF THE CONTRACTOR

4.1 CONTRACTOR HEREBY DECLARES HE HAS READ ALL SPECIFICATIONS AND EXAMINED THE DRAWINGS AND THAT HE UNDERSTANDS ALL CONDITIONS.

4.2 CONTRACTOR HEREBY DECLARES HE HAS VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS AFFECTING THE WORK. NO ALLOWANCES SHALL BE MADE SUBSEQUENTLY ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. IF, IN THE PERFORMANCE OF THE CONTRACT, LATENT CONDITIONS AT THE SITE ARE FOUND TO BE MATERIALLY DIFFERENT FROM THOSE INDICATED BY THE DRAWINGS AND SPECIFICATIONS, OR UNKNOWN CONDITIONS UNUSUALLY INHERENT IN WORK OF THIS CHARACTER SHOWN AND SPECIFIED, THE ATTENTION OF THE OWNER AND THE OWNERS AGENT SHALL BE CALLED IMMEDIATELY TO SUCH CONDITIONS BEFORE THEY ARE DISTURBED.

4.3 CONTRACTOR HEREBY DECLARES THAT HE HAS READ AND IS FAMILIAR WITH THE APPLICABLE SOILS REPORT. CONTRACTOR SHALL BE RESPONSIBLE FOR STRICTLY ADHERING TO THE RECOMMENDATIONS OF SAID SOILS REPORT FOLLOWING ALL APPLICABLE PROCEDURES NOTED THEREIN. EXISTING WATER TABLE SHALL DETERMINE THE UTILIZATION OF TANK STRAPS AND TYPE OF BACKFILL MATERIAL SHOULD GROUND WATER OR CONTAMINATION BE DISCOVERED DURING TANK EXCAVATION. WORK SHALL BE SUSPENDED PENDING REVIEW BY OWNER/OWNERS AGENT OR REPRESENTATIVE.

4.4 CONTRACTOR SHALL REPORT ANY OBJECTION TO MATERIALS, APPLIANCES, OR METHODS OF CONSTRUCTION SHOWN OR SPECIFIED TO THE OWNER/OWNERS AGENT AND OBTAIN A DECISION BEFORE PROCEEDING.

4.5 PROPOSALS: CONTRACTOR SHALL SUBMIT BID ON OWNERS FORM "UNDERGROUND FUEL INSTALLATION BID AND ESTIMATE FORM". PROPOSALS SUBMITTED ON ANY OTHER FORM SHALL BE REJECTED AND RETURNED. PROPOSALS NOT COMPLETELY AND PROPERLY FILLED OUT SHALL BE REJECTED. PROPOSALS SHALL INCLUDE MONIES FOR REMOVAL OF ALL EXISTING IMPROVEMENTS AS REQUIRED FOR UNDERGROUND FUEL INSTALLATION.

4.6 PERMITS: CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING AND PAYING FOR ALL APPLICABLE STATE AND LOCAL PERMITS AND APPLICATIONS AS RELATED TO THIS WORK. COPIES OF PERMITS AND CERTIFICATES SHALL BE FORWARDED TO THE OWNER/OWNERS AGENT OR SITE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. FINAL CERTIFICATION OF ACCEPTANCE BY GOVERNING AUTHORITIES SHALL ALSO BE ON FILE WITH THE OWNER OR SITE CONTRACTOR PRIOR TO THE PROCESSING OF FINAL PAY REQUEST.

4.7 INSPECTIONS: CONTRACTOR SHALL BE REQUIRED TO ADHERE TO ALL REQUIREMENTS OF OWNER'S INSPECTION PROGRAM. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR NOTIFICATION, SITE PREPARATION REQUIREMENTS, COMPLIANCE, ON-SITE PRESENCE DURING INSPECTION AND CORRECTION OF ANY DEFECTS OR RELATED PROBLEMS AS DIRECTED BY ALL LOCAL GOVERNMENTAL INSPECTING REPRESENTATIVES. CONTRACTOR SHALL PROVIDE NO LESS THAN 48 HOURS NOTICE PRIOR TO INSPECTION.

4.8 COORDINATION: UNDERGROUND FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL PHASES OF THE FUEL INSTALLATION WITH THE GENERAL CONTRACTOR IN CHARGE OF THE BUILDING OR MAJOR PORTION OF THE PROJECT. THE BUILDING GENERAL CONTRACTOR AND THE UNDERGROUND FUEL CONTRACTOR SHALL JOINTLY DEVELOP A MUTUALLY AGREEABLE SCHEDULE AND TIMETABLE FOR COMPLETION OF THE UNDERGROUND FUEL INSTALLATION. TIMETABLE FOR BUILDING AND UNDERGROUND FUEL SHALL COINCIDE AND COMPLEMENT EACH OTHER SO THAT ONE DOES NOT DELAY THE OTHER SHOULD UNDERGROUND FUEL CONTRACTOR FAIL TO MEET DEADLINES AS ESTABLISHED BY THE SCHEDULE AND/OR HOLD UP THE COMPLETION OF THE OVERALL BUILDING PROJECT. THE OWNER/OWNERS AGENT RESERVES THE RIGHT TO RECTIFY THE SITUATION ACCORDINGLY.

4.9 CONTRACTOR SHALL PROVIDE OWNER WRITTEN CERTIFICATION AS TO THE FOLLOWING:

- 4.9.1 CERTIFICATION FROM LOCAL/STATE GOVERNING AUTHORITIES AS APPLICABLE FOR CONTRACTOR CERTIFICATION/LICENSING FOR INSTALLATION OF UNDERGROUND FUEL STORAGE TANK SYSTEM.
- 4.9.2 CERTIFICATION FROM EQUIPMENT MANUFACTURERS AND SUPPLIERS (TANKS, PRODUCT LINES, GTMS, ETC.) AS TO ATTENDING AND ACHIEVING CERTIFICATION FROM APPROPRIATE COMPANY FOR INSTALLATION OF EQUIPMENT.
- 4.9.3 CERTIFICATION ON APPROPRIATE FORMAT AS TO INSTALLATION OF COMPLETE SYSTEM BEING PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
- 4.9.4 CERTIFICATION THAT ALL EQUIPMENT EITHER SUPPLIED BY OWNER OR CONTRACTOR HAS BEEN INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS BY PERSONNEL TRAINED AND QUALIFIED FOR THAT SPECIFIC ITEM.

4.10 PAYMENTS SHALL BE MADE AS PER THE CONTRACT.

4.11 LIENS: CONTRACTOR SHALL PERMIT NO LIENS OF ANY KIND TO BE FILED UPON OR AGAINST THE PROPERTY BY ITS LABORERS, MECHANICS OR MATERIALMEN, AND SHALL INDEMNIFY, PROTECT AND SAVE OWNER HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND LIENS.

4.12 EQUIPMENT RESPONSIBILITY: CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, RECEIVING, UNLOADING, HANDLING AND PROVIDING PROTECTED INSIDE STORAGE FOR ALL OWNER SUPPLIED EQUIPMENT AND MATERIAL. CONTRACTOR SHALL INSPECT EQUIPMENT UPON RECEIPT AND IMMEDIATELY REPORT ANY DAMAGE DUE TO SHIPPING TO THE OWNER/OWNERS AGENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS. DISPENSERS SHALL BE PROTECTED WITH SHIPPING BOXES UNTIL STORE IS TURNED OVER FOR OPENING. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUATE AND LOCKED STORAGE OF OWNERS MISCELLANEOUS EQUIPMENT, TO INCLUDE FUEL CONSOLE, PRIOR TO OPENING OF THE STORE.

4.13 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FILING OF RECEIVING FORMS AND MISCELLANEOUS CONFIRMATION OF EQUIPMENT RECEIVING INFORMATION AS REQUIRED BY THE OWNER.

4.14 GENERAL CONTRACTOR SHALL PROVIDE ALL PLUMBING, WIRING, MATERIALS, AND LABOR AS REQUIRED TO INSTALL OWNER SUPPLIED EQUIPMENT. INCLUDE MONIES IN BID PROPOSAL FOR INSTALLATION OF OWNERS SUPPLIED EQUIPMENT UNLESS NOTED OTHERWISE.

1 GENERAL CONDITIONS - continued

PART 5 - PROTECTION

5.1 CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY HIM OR HIS WORKMEN TO THE PROPERTY OR EQUIPMENT OF THE OWNER, OR TO THE WORK DAMAGE OR INJURY WITHOUT COST TO OWNER FOR SUCH LOSS OR DAMAGE.

5.2 CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY SIDEWALKS, FENCES, LIGHTS, SIGNS OR OTHER STRUCTURES AND DEVICES AS REQUIRED BY LAW. DO NOT OBSTRUCT OR INTERFERE WITH TRAFFIC IN PUBLIC STREETS, ALLEYS OR PRIVATE DRIVEWAYS. IF WORK IS SUSPENDED, KEEP ALL ROADWAYS AND SIDEWALKS IN PROPER CONDITION AND UT AND LEAVE THEM IN PROPER CONDITION AT TERMINATION OF WORK.

5.3 CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS AND PERFORM ALL WORK REQUIRED FOR THE CARE, PROTECTION, AND MAINTENANCE OF PUBLIC UTILITIES ON AND AROUND THE BUILDING SITE. ASSUMING ALL RESPONSIBILITY AND PAYING ALL COST FOR WHICH THE OWNER MAY BE LIABLE. CONTRACTOR HEREBY DECLARES HE HAS VERIFIED THE LOCATIONS OF EXISTING UTILITIES ON SITE PRIOR TO THE START OF THE WORK. CONTRACTOR HEREBY AGREES TO MAKE ARRANGEMENTS FOR AND TO PAY ALL CHARGES IN CONJUNCTION WITH THE RELOCATIONS OF EXISTING UTILITIES AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL UTILITY EASEMENTS, HOOK-UP CHARGES, TAP FEES, SYSTEM DEVELOPMENT FEES AS NECESSARY FOR COMPLETION OF THIS PROJECT.

5.4 IF ALL OR PART OF THE WORK IS SUSPENDED FOR ANY REASON, CONTRACTOR SHALL PROPERLY COVER OVER, SECURE AND PROTECT ANY PORTION LIABLE TO SUSTAIN INJURY FROM ANY CAUSE.

5.5 PRODUCT PROTECTION: CONTRACTOR SHALL PROVIDE ADEQUATE AND SECURE PROTECTION OF PRODUCT IN TANKS UPON DELIVERY UNTIL TURNED OVER FOR OPERATION. ALL FILL, VENT, AND GAUGING CAPS AND/OR OPENINGS SHALL BE SECURED AND PADLOCKED TO PREVENT VANDALISM OR THEFT.

PART 6 - SUBSTITUTION OF MATERIALS

6.1 MATERIALS AS SPECIFIED REPRESENT REQUIRED STANDARDS. SUBSTITUTIONS MAY BE PROPOSED IN WRITING WITH ADEQUATE SUPPORTING DATE FURNISHED. USE OF SUBSTITUTE MATERIALS IS DEPENDENT ON RECEIPT OF WRITTEN APPROVAL FROM OWNER/OWNERS AGENT

PART 7 - COMPLETION OF CONTRACT

7.1 THE CONTRACT SHALL BE CONSIDERED FULFILLED, SAVE AS PROVIDED IN ANY MAINTENANCE STIPULATIONS, BOND OR BY LAW, WHEN ALL THE WORK HAS BEEN COMPLETED WITH FINAL INSPECTION AND ACCEPTANCE MADE BY ALL APPLICABLE GOVERNING BUILDINGS DEPARTMENTS, FIRE MARSHALLS OR OTHER JURISDICTIONS.

7.2 WORKMANSHIP

7.2.1 FRAME CORNERS AND JOINTS IN RUNNING MATERIALS OF THE SAME CROSS SECTIONS PROFILE SHALL BE ACCURATELY FITTED TO NEAT CLOSED JOINTS, FREE FROM OFFSETS ACROSS THE FINISH SURFACES AT THE JOINT

7.2.2 FIXED PARTS OR MEMBERS SHALL BE SECURED TIGHT IN PLACE, FREE FROM DISTORTIONS

7.2.3 FINISHES SHALL BE EVEN, UNIFORM, STRAIGHT, FREE FROM IRREGULARITIES, EXCEPT WHERE ROUGH MATERIALS MAY BE REQUIRED. FINISH SURFACES SHALL BE FREE FROM DIRT, GREASE, MASTICS, FINGERPRINTS, SCRATCHES, DENTS, CRACKS, STAINS, CHIPS OR OTHER DAMAGING EFFECTS.

7.3 CLEANING

7.3.1 ALL WORK SHALL BE CLEAN AND READY FOR SE UPON COMPLETION. REMOVE TEMPORARY TAPES, WRAPPING, COATING, PAPER LABELS, AND OTHER ITEMS.

7.3.2 CLEANING METHODS FOR PROPRIETARY MATERIALS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CLEANING SOLUTIONS, AGENTS, SOLVENTS, WAXES OR OTHER MATERIALS SHALL BE ONLY AS APPROVED BY THE MANUFACTURER OF THE MATERIAL INSTALLED IN THE WORK.

7.3.3 CLEAN UP: CONTRACTOR SHALL CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES NEAT AT ALL TIMES.

PART 8 - CODE

8.1 THE FOLLOWING CODES ARE MADE A PART OF THIS SPECIFICATION. SAID CODES SHALL DICTATE MINIMAL ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.

8.1.1 NFPA 30A FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE

8.1.2 PEI MANUAL "RECOMMENDED PRACTICES FOR INSTALLATION OF UNDERGROUND LIQUID STORAGE SYSTEMS" #RP-100-90 (OR LATEST EDITION).

PART 9 - WARRANTY/GUARANTEE

9.1 EXCEPT WHERE SPECIAL GUARANTEES ARE REQUIRED IN EXCESS OF ONE (1) YEAR, THE CONTRACTOR AGREES TO REPAIR OR REPLACE ANY DEFECT IN MATERIAL OR WORKMANSHIP (BEYOND ORDINARY WEAR AND TEAR) TO THE SATISFACTION OF THE OWNER/OWNERS AGENT FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE, WHETHER IN HIS WORK OR IN THAT OF SUBCONTRACTORS, WITHOUT COST TO THE OWNER.

PART 10 - AS BUILT PLAN AND DOCUMENTATION

10.1 UPON COMPLETION OF PROJECT, CONTRACTOR SHALL PROVIDE "AS BUILT SITE PLAN" VERIFYING FINAL LOCATION OF IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, PLUMBING AND ELECTRICAL.

10.2 CONTRACTOR SHALL KEEP PHOTOGRAPHIC JOURNAL OF ALL PHASES OF THE COMPLETE INSTALLATION. PHOTOGRAPHS ARE TO BE PROPERLY DATED, IDENTIFIED, AND FORWARDED TO THE OWNER.

2 INSPECTIONS/TESTING

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, SERVICES AND EQUIPMENT AS REQUIRED TO PROVIDE INSPECTION SERVICES OF THE UNDERGROUND FUEL/DEF INSTALLATION.

PART 2 - INSPECTIONS

2.1 INSPECTOR: INSPECTIONS / TESTS SHALL BE PERFORMED BY THE OWNER AND/OR APPOINTED REPRESENTATIVE.

2.2 NOTIFICATION: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER/OWNERS AGENT 48 HOURS PRIOR TO REQUESTED INSPECTION.

2.3 SPILLAGE: SHOULD SPILLAGE OF PRODUCT OCCUR AT ANY PHASE OF INSTALLATION OR TESTING, THE OWNER/OWNERS AGENT IS TO BE NOTIFIED IMMEDIATELY. ESTIMATED LOSS OF PRODUCT AS WELL AS ACTION TAKEN IS TO BE NOTED AND RECORDED.

2.4 REPRESENTATIVE: CONTRACTOR AND PLUMBING SUBCONTRACTOR SHALL BE AVAILABLE ON SITE DURING TESTING PROGRAMS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN ANY CONNECTIONS AND/OR REPAIRS AS REQUIRED BEING PERFORMED BY OWNER AS REQUIRED. COST FOR SAID REPAIRS AND/OR CONNECTIONS SHALL BE DEDUCTED FROM CONTRACT AMOUNT AS REQUIRED TO SATISFY THE SITUATION.

2.5 PROHIBITED WORK: CONTRACTOR SHALL SCHEDULE WORK SUCH THAT NO HEAVY EQUIPMENT IS OPERATING ON SITE DURING INSPECTION PROGRAMS. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON SITE AT ANY TIME DURING TEST PROCEDURES.

2.6 INSTALLATION REPORTS: SHOULD OWNER OR APPOINTED REPRESENTATIVE BE UNABLE TO BE PRESENT AT SITE FOR PURPOSES OF FILING ANY INSPECTION REPORTS, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSPECTION AND FILING OF REPORT WITH THE OWNERS OFFICE. WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

2.7 TEST FAILURE: SHOULD SYSTEM FAIL ANY PORTION OF TEST PROGRAM, CONTRACTOR SHALL IMMEDIATELY INSTIGATE PROCEDURES AS REQUIRED TO BRING SYSTEM INTO COMPLIANCE. SHOULD FAILURE OF TEST DUE TO FACULTY WORK REQUIRE EXPENDITURE OF ADDITIONAL MONIES FOR RESCHEDULING AND/OR RETESTING OF SYSTEM, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COMPENSATION ACCORDINGLY.

2.8 CLEAN-UP: IN THE EVENT PRODUCT SPILLAGE SHOULD OCCUR DURING CONSTRUCTION OR DURING WARRANTY PERIOD DUE TO WORK PERFORMED BY CONTRACTOR, CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AS MAY BE REQUIRED.

2.9 TEST REPORT: UPON COMPLETION OF TESTING PROGRAMS, REPRESENTATIVE OF TESTING/ INSPECTION COMPANY SHALL BE RESPONSIBLE FOR FILING COPIES OF TANK AND PIPING TESTING/INSPECTION REPORTS WITH OWNER OR OWNERS AGENT WITH COPY TO JOB SITE.

2 INSPECTIONS/TESTING continued

PART 3 - TANK INSTALLATION INSPECTION

3.1 SCHEDULE: CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING SCHEDULE SO THAT TANKS ARE TESTED AND SET IN TANK HOLE SAME DAY OF DELIVERY.

3.2 EXCAVATION: ALL EXCAVATIONS SHALL BE COMPLETED WITH BEDDING MATERIAL IN PLACE AND READY FOR INSTALLATION PRIOR TO TANK DELIVERY.

3.3 ANCHORS: SHOULD ON-SITE CONDITIONS REQUIRE A WET HOLE TYPE INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE PREPARATION OF CONCRETE ANCHORS (DEADMAN) PRIOR TO SCHEDULING TANK DELIVERY (VERIFY WITH OWNER).

3.4 STRAPS: SHOULD ON-SITE CONDITIONS REVEAL THE NEED FOR WET HOLE TYPE INSTALLATION, CONTRACTOR SHALL IMMEDIATELY NOTIFY TANK MANUFACTURER AND OWNER/OWNERS AGENT OF SITUATION. SAID NOTIFICATION WILL BE REQUIRED SO AS TO INCLUDE ANCHOR STRAPS WITH DELIVERY OF TANK PACKAGE.

3.5 AIR TEST: TANKS SHALL BE AIR TESTED AS PER MANUFACTURER'S SPECIFICATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS TO PROVIDE COMPLETE AIR TEST INCLUDING, BUT NOT LIMITED TO, AIR COMPRESSOR OF SUFFICIENT SIZE AND CAPACITY, SPECIFIED SOAP MATERIAL AND ACCEPTABLE SOAP APPLICATION EQUIPMENT.

3.6 MINIMUM TESTING: FIBERGLASS DOUBLE WALL TANKS AS MANUFACTURED BY HALL TANK COMPANY SHOULD ARRIVE AT THE JOB SITE WITH A MINIMUM OF 4" HG ON THE INTERSTICE. OBSERVE THE VACUUM HOLD TEST FOR AT LEAST ONE (1) HOUR PRIOR TO SETTING THE TANKS. SHOULD THE INTERSTICE NOT HOLD A MINIMUM 4" HG VACUUM, THEN CONTACT THE TANK MANUFACTURER IMMEDIATELY.

3.7 OBSERVATION: OWNER AND/OR OWNER'S SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF AIR OR VACUUM TEST. OBSERVATION OF LIFTING, SETTING AND BURIAL OF TANKS.

3.8 TANK INSPECTION REPORT: WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

PART 4 - TANK AND LINE TESTING

4.1 TEST: PRIOR TO PLACEMENT OF CONCRETE OVER TANKS, A COMPLETE SYSTEM TIGHTNESS TEST INCLUDING TANKS, PRODUCT LINES, STAGE II VAPOR RECOVERY LINES, SECONDARY CONTAINMENT PIPING AND VENT LINES SHALL BE PERFORMED. TESTING SYSTEM SHALL BE AS APPROVED BY THE OWNER'S ENVIRONMENTAL DEPARTMENT AN DIOR PROCEDURES FOR DELIVERY AS SITUATION DICTATES.

4.2 PRODUCT DELIVERY: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO OWNER/OWNERS AGENT OF TEST DATE AND VERIFICATION OF NEED FOR TANKS TO BE FILLED WITH PRODUCT FOR TESTING PROCEDURES. A MINIMUM OF 72 HOURS ADVANCE NOTIFICATION WILL BE REQUIRED FOR PRODUCT DELIVERY.

4.3 CONTRACTOR SHALL HAVE REPRESENTATIVES ON SITE TO ACCEPT AND RECORD ALL PRODUCT DELIVERIES. CONTRACTOR REPRESENTATIVE SHALL REMIND DELIVERY COMPANY THAT NO OVERFILL PROTECTION IS INSTALLED AND TO FOLLOW PROCEDURES FOR DELIVERY AS SITUATION DICTATES.

4.4 CONTRACTOR SHALL COMPLETE AND BE RESPONSIBLE FOR THE FOLLOWING PRIOR TO SYSTEM TEST:

4.4.1 PIPING: ALL PIPING SHALL BE COMPLETED EXCEPT INSTALLATION OF OVERFILL PROTECTION. OVERFILL PROTECTION SHALL BE INSTALLED UPON COMPLETION OF TEST. 4.4.2 VENTS: VENT LINES SHALL BE COMPLETED UNDERGROUND AND STUBBED UP MINIMUM OF 5' ABOVE FINISHED GRADE.

4.4.3 PRODUCT LINES: ALL PRODUCT LINES SHALL BE COMPLETE WITH FIRE VALVES INSTALLED AT ISLAND.

4.4.4 PUMPS: SUBMERSIBLE PUMPS AND LINES SHALL BE COMPLETELY INSTALLED.

4.4.5 VAPOR RECOVERY: ALL PHASE I VAPOR RECOVERY LINES SHALL BE COMPLETE AND CONNECTED AT ISLANDS.

4.4.6 FILL PIPES: ALL FILL, PHASE I VAPOR RECOVERY AND GAUGING RISERS SHALL BE INSTALLED.

4.4.7 SITE PREPARATION: CONTRACTOR SHALL PREPARE TANK AREA FOR PRODUCT DELIVERY AND TANK TESTING PROCEDURES.

4.4.8 FILL: CONTRACTOR SHALL PROVIDE TWO FEET BACKFILL OVER TANKS OR PROVIDE ACCEPTABLE INSULATED BLANKETS FOR COVERAGE OF TANKS.

4.4.9 WATER: SHOULD WATER BE PRESENT IN TANK HOLE, CONTRACTOR SHALL VERIFY AND NOTIFY OWNER OF STATUS.

4.5 PRODUCT REMOVAL: ANY REMAINING PRODUCT IN VENT LINES UPON COMPLETION OF TEST SHALL BE REMOVED BY TESTING COMPANY.

4.6 COMPLETION: UPON COMPLETION AND COMPLIANCE WITH SYSTEM TEST PROGRAM, CONTRACTOR SHALL PROCEED WITH COMPLETION OF PROJECT INCLUDING BACKFILL AND CONCRETE PLACEMENT.

PART 5 - START-UP INSPECTION

5.1 SCHEDULING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SCHEDULING START-UP AND CHECK-OUT. CONTRACTOR SHALL NOTIFY OWNER AND APPLICABLE MAINTENANCE DEPARTMENT OFFICE A MINIMUM OF 48 HOURS PRIOR TO INTENDED FINAL START-UP AND CHECK-OUT DATE AND TIME.

5.2 PERSONNEL: CONTRACTOR, PLUMBING SUBCONTRACTOR, AND ELECTRICAL SUBCONTRACTOR SHALL BE AVAILABLE ON-SITE DURING START-UP.

5.3 START-UP: PHYSICAL START-UP AND CHECK-OUT OF SYSTEMS AND EQUIPMENT SHALL BE DONE BY AND AT THE DIRECTION OF OWNER'S REPRESENTATIVE ONLY. CONTRACTOR SHALL NOT START OR ACTIVATE ANY EQUIPMENT WITHOUT THE SPECIFIC DIRECTIVE OF OWNER'S REPRESENTATIVE. DAMAGE TO ANY OWNER'S EQUIPMENT DUE TO IMPROPER INSTALLATION AND/OR UNAUTHORIZED START-UP WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5.4 SITE COMPLETION: ALL SITE WORK, INCLUDING CONCRETE/ASPHALT PAVEMENTS, SHALL BE COMPLETE. ALL UTILITIES SHALL BE CONNECTED AND OPERATIONAL. ALL LANDSCAPING, INCLUDING SPRINKLER SYSTEMS, SHALL BE COMPLETE.

5.5 VERIFICATION: PRIOR TO SCHEDULING OF START-UP, CONTRACTOR SHALL OBSERVE AND VERIFY CORRECTNESS AND COMPLIANCE TO OWNERS DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING:

5.5.1 MANWELLS SHALL BE PROPERLY CENTERED/INSTALLED AT OVERFILLS, SUBMERSIBLES, VAPOR RECOVERY, AUTOGAUGING, OBSERVATION TUBES AND SUMP RISERS.

5.5.2 PROPER HEIGHT OF GAVEL BACKFILL AROUND SUMP/RISERS

5.5.3 TANK I.D. MARKERS INSTALLED IN CONCRETE AT PROPER LOCATIONS.

5.5.4 ALL BRASS GOODS AND FITTINGS PROPERLY INSTALLED, TIGHT AND SECURE.

5.5.5 LEAK DETECTORS INSTALLED.

5.5.6 PROTECTED FLEX LINES PROPERLY INSTALLED W/IO TWIST IN INSTALLATION AID STRIPE.

5.5.7 MANWELL EXTENDERS PROPERLY INSTALLED AND SCREWED IN FRAME OF MANWELL SUMP/RISERS. PROPERLY SET AND SEALED TO TANK MANWAY OR FITTINGS AND CLEANED OUT FREE OF DEBRIS AND CONCRETE.

5.5.8 TANKS CLEAN AND FREE OF WATER.

5.5.9 ISLAND FORM INNER BOXES PROPERLY CLEANED OUT, FREE OF DEBRIS AND CONCRETE.

5.5.10 DISPENSERS PROPERLY SET AND SECURED TO ISLAND BOX FRAME AND DISPENSER SUMPS PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.

5.5.11 FIRE VALVES SECURED TO FRAME WITH PROPER HARDWARE.

5.5.12 PHASE II VAPOR RECOVERY LINES INSTALLED AND SECURED IN PROPER LOCATION.

5.5.13 ELECTRICAL CONDUITS SECURED WITH ALL CONNECTIONS COMPLETED. VERIFY COMPLIANCE W/ REQUIREMENTS FOR ISOLATED GROUND WIRING TO JUNCTION BOX CASING.

5.5.14 DISPENSER CANOPIES INSTALLED AND LIFTING LUGS REMOVED WITH PROPER PLUGS INSERTED.

5.5.15 ALL NOZZLES AND SWIVELS AVAILABLE ON-SITE, INSTALLED PRIOR ONLY IF REQUIRED BY GOVERNING AUTHORITIES FOR INSPECTION PURPOSES.

5.5.16 ALL INSPECTIONS BY GOVERNING AUTHORITIES COMPLETED AND SIGNED. SIGNED AND COMPLETED PERMIT CARD ON SITE.

5.5.17 ELECTRICAL DEVICES INCLUDING LIGHTS, SIGNS AND INTERCOMS PROPERLY INSTALLED, SECURE AND PLUMB.

5.5.18 ANY INSPECTION OR WIRING PORTS IN CANOPY COLUMNS COVERED WITH ACCEPTABLE PLATES.

5.5.19 VENT LINES PROPERLY SECURED, PROTECTED AND INSTALLED AT PROPER HEIGHT.

5.5.20 VERIFICATION OF COMPLIANCE FOR TANK AND LINE TEST AVAILABLE ON SITE.

5.5.21 ALL MANWELLS FREE OF CONCRETE AND DEBRIS.

5.5.22 MANWELL COVERS PROPERLY PAINTED.

5.5.23 ALL PAINTING COMPLETE INCLUDING CANOPY DOWNSPOUTS, METALS AND MISCELLANEOUS METALS.

5.5.24 CONCRETE AT ISLANDS AND TANK PAD TRUE, PROPERLY SLOPED AND FINISHED WITH ACCEPTABLE RISE TO MANWELLS

5.5.25 ELECTRICAL PANELS PROPERLY COMPLETED TO INCLUDE:

(A) ONE BREAKER FOR EACH SUBMERSIBLE PUMP, DISPENSER, CONSOLE, AUTOGAUGING, DISPENSER LIGHTS (ALL) AND CANOPY LIGHTS (ALL)

(B) GAS PANEL CONTROLLED BY ONE MAIN BREAKER

(C) CONTROL BOXES AND DISTRIBUTION BOXES INSTALLED AND WIRED.

(D) INTERCOM INSTALLATION COMPLETE AND PROPERLY WORKING.

(E) CONSOLE INSTALLATION COMPLETE AND FUNCTIONAL.

(F) ALL WIRING PROPERLY IDENTIFIED WITH COLOR CODED WIRING.

(G) CONDUITS PROPERLY IDENTIFIED.

(H) ALL BREAKERS IN "OFF" POSITION.

(I) TYPED PANEL SCHEDULE IDENTIFYING EACH BREAKER INSTALLED EACH PANEL.

5.6 NOTIFICATION: CONTRACTOR SHALL VERIFY ITEMS AS INDICATED ABOVE PRIOR TO SCHEDULING OF START-UP. MONIES AND/OR TIME LOST AT START-UP DUE TO NON-COMPLIANCE SHALL BE CHARGED TO CONTRACTOR ACCORDINGLY.

5.7 LINE TESTING: PRIOR TO SYSTEM START-UP, A NYAROSTATIC LINE TEST SHALL BE PERFORMED ON PRODUCT LINES. TESTING METHOD SHALL BE AS APPROVED BY THE OWNER/OWNERS AGENT. TEST SHALL BE PERFORMED WITH OWNER/OWNERS AGENT ON SITE.

5.8 CATHODIC PROTECTION SYSTEMS: AS APPLICABLE, SHALL BE TESTED FOR EFFECTIVENESS AND COMPLIANCE WITH MANUFACTURER'S CRITERIA.

5.9 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

3 EARTHWORK

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO EARTHWORK.

PART 2 - PRODUCTS

2.1 FILL MATERIAL: SHALL BE MATERIAL IN COMPLIANCE WITH TANK AND LINE MANUFACTURER'S SPECIFICATIONS.

2.1.1 FEA GRAVEL: SHALL BE CLEAN, NATURALLY ROUNDED AGGREGATE WITH A MIX OF PARTICLE SIZES NOT LESS THAN 1/8" OR MORE THAN 3/4".

2.1.2 STONE OR GRAVEL CRUSHINGS: SHALL BE WASHED MATERIAL WITH ANGULAR PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2".

NOTE: MATERIALS MUST MEET ASTM C-33 PARAGRAPH 7.1 FOR QUALITY AND SOUNDNESS. FILL MATERIAL SHALL NOT HAVE MORE THAN 3% PASSING A #8 SIEVE. DRY GRAVEL DENSITY MUST BE A MINIMUM OF 95 POUNDS PER CUBIC FOOT.

2.1.3 SAND: (WHEN APPROVED IN WRITING ON A PER PROJECT BASIS) MATERIAL SHALL BE CLEAN, WASHED, INERT, WELL GRANULATED WITH LESS THAN 8% BY WEIGHT PASSING A /1200 SIEVE.

2.2 GEOTEXTILE MATERIAL: SOIL STABILIZATION FILTER FABRIC MATERIAL SHALL BE ONE OF THE FOLLOWING:

2.2.1 PHILLIPS FIBERS, SURPAC 4NP (PHONE #800-845-5737).

2.2.2 HOECHST CELANESE CORPORATION TREVIRA S1125 (PHONE #800-845-7597).

2.2.3 REEMAY, INC., TYPAR 3401 OR TYPAR 3341 (PHONE /1800-321-6271).

PART 3 - EXECUTION

3.1 PROTECTIONS: PROVIDE ADEQUATE SHORING, BRACING, PILING, PLANKING AND CRIBBING.

3.2 LAYOUT: CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK. OWNER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IF DISCREPANCIES ARE FOUND BY CONTRACTOR. REPORT DISCREPANCIES TO OWNER/OWNERS AGENT. SET AND MAINTAIN NECESSARY STAKES, BATTER BOARDS AND REFERENCE POINTS.

3.3 EXCAVATION: EXCAVATE TO LINES, ELEVATIONS AND LIMIT

4 TANK INSTALLATION

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE INSTALLATION OF UNDERGROUND FUEL STORAGE TANKS.

PART 2 - PRODUCTS

- 2.1 TANKS: SHALL BE DESIGNED AND MANUFACTURED SO AS TO BE CORROSION PROTECTED PER EPA REQUIREMENTS.
- 2.2 HOLD DOWN STRAPS: STRAPS AS REQUIRED BY SOIL/WATER CONDITION SHALL BE SUPPLIED BY TANK MANUFACTURER ONLY. FIELD FABRICATED UNITS ARE NOT ACCEPTABLE.

PART 3 - INSTALLATION

- 3.1 MANUFACTURING: REFER TO TANK MANUFACTURER'S CRITERIA AND SPECIFICATIONS FOR TANK INSTALLATION AND ADHERE TO AS REQUIRED.
- 3.2 CLEARANCES: MINIMUM CLEARANCE FOR TANKS SHALL BE AS FOLLOWS: SHOULD REQUIREMENTS OF TANK MANUFACTURER OR SOIL CONDITIONS DICTATE GREATER CLEARANCE, ADHERE TO ACCORDINGLY.
- 3.2.1 BOTTOM: PROVIDE MINIMUM OF 12" BEDDING MATERIAL BETWEEN BOTTOM OF EXCAVATION OR PAD AND BOTTOM OF TANK.
- 3.2.2 SIDES: PROVIDE MINIMUM OF 2" BETWEEN TANKS AND 2"-FROM SIDE/END OF TANK TO WALL OF EXCAVATION.
- 3.2.3 TOP: PROVIDE 36" MIN. FILL MATERIAL OVER TANK PLUS OF CONCRETE TANK PAD.

- 3.3 TESTING: PRIOR TO INSTALLATION OF TANKS, TEST PER MANUFACTURER'S SPECIFICATIONS SHALL BE PERFORMED ON TANK. ON DUAL WALL TANKS, CONSULT TANK MANUFACTURER FOR TESTING CRITERIA, BUT MINIMUM 4" HG VACUUM MUST BE HELD ON INTERSTITIAL SPACE FOR AT LEAST ONE (1) HOUR.

- 3.4 PLACEMENT:
- 3.4.1 REFER TO SITE PLAN FOR TANK PLACEMENT AND PRODUCT ROTATION
- 3.4.2 PRIOR TO SETTING OF TANKS, REMOVE ALL FOREIGN DEBRIS, ROCKS, CLODS, GARBAGE, ETC. FROM EXCAVATION.
- 3.4.3 PLACE TANKS ONLY ON APPROVED FILL DO NOT SET ON CONCRETE OR WOOD.
- 3.4.4 SLOPE TANKS 2" MINIMUM AND 4" MAXIMUM TOWARDS END WITH FILL OPENING.
- 3.4.5 TANKS SHALL BE BURIED TO MINIMUM DEPTH AS PER ABOVE AND AS SHOWN ON FUEL DRAWINGS. TANKS MAY REQUIRE GREATER BURIAL DEPTH IF INSTALLED IN REMOTE POSITION TO ALLOW FOR PROPER SLOPE ON VENT LINES. VERIFY DEPTH AS REQ.

- 3.5 PLUGS: ALL UNUSED PLUGS SHALL BE REMOVED. APPLY COMPATIBLE NON-HARDENING PIPE SEALANT TO INTERNAL BUSHING THREADS. PERMANENT METAL PLUGS SHALL BE INSTALLED AT ALL UNUSED OPENINGS.
- 3.6 N/A

- 3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT IN TANK EXCAVATIONS, ANCHORING SHALL BE REQUIRED.
- 3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT BY WELL POINT
- 3.7.2 ANCHORS: DEADMAN SHALL BE CONSTRUCTED OF CONCRETE AS DETAILED IN DRAWINGS AND AS PER TANK MANUFACTURER'S RECOMMENDATIONS. PLACE 12" FROM OUTSIDE VERTICAL LINE OF TANK(S) AS SHOWN ON DRAWINGS.

- 3.7.3 THE DOWNING STRAPPING MATERIAL SHALL BE AS PER TANK MANUFACTURER'S REQUIREMENTS
- 3.7.4 TURNBUCKLES: TO REMOVE CABLE SLACK, UTILIZE 5/8" JAW TYPE TURNBUCKLES, ONE EACH SIDE OF TANK (2 PER STRAP)
- 3.7.5 STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS.
- 3.7.6 INSULATION: TANKS SHALL BE INSULATED FROM TIEDOWNS BY PLACEMENT OF APPROVED DIELECTRIC MATERIAL BETWEEN STRAP AND TANK. MATERIAL SHALL BE PETROLEUM RESISTANT MATERIAL AS APPROVED BY TANK MANUFACTURER.

- 3.7.7 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF ASPHALT IMPREGNATED WITH WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL.

- 3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S RECOMMENDATIONS, UTILIZING LIFTING LUGS PROVIDED ON TANKS. TANKS SHALL NOT BE ROLLED, DROPPED OR WRAPPED WITH CHAINS. EQUIPMENT OF SUFFICIENT SIZE, DESIGN AND LIFT CAPACITY SHALL BE UTILIZED FOR SETTING OF TANKS. SHOULD TANKS BE BUMPED, DENTED, DROPPED OR MISHANDLED IN ANY WAY, INSTALLATION SHALL BE HALTED AND TANK MANUFACTURER'S REPRESENTATIVE IMMEDIATELY CONTACTED FOR RECERTIFICATION OF TANKS. CONTACT LOCAL CONSTRUCTION OFFICE OR SITE MANAGER IMMEDIATELY UPON NOTICE OF QUESTIONABLE HANDLING OF TANKS OR NOTABLE DAMAGE THERETO.

- 3.9 BACKFILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE, CAREFULLY BACKFILL ENTIRE EXCAVATION, HAND SHOVELING AND TAMPING ALONG BOTTOM OF TANK(S) SO THEY ARE EVENLY SUPPORTED AROUND BOTTOM. SPECIAL ATTENTION SHALL BE PAID TO BOTTOM QUARTER POINTS ELIMINATING ANY VOIDS IN FILL AT THESE POINTS. DO NOT DROP BACKFILL FROM HIGH DISTANCE ONTO TANKS. TAMP AS REQUIRED TO ACHIEVE ACCEPTABLE DENSITY.

- 3.10 BALLASTING: IF GROUND WATER IS PRESENT, TANKS MAY BE FILLED WITH BALLAST (PRODUCT TO BE STORED IN TANK OR WATER) TO AVOID SHIFTING MOVEMENT. IF WATER IS UTILIZED, COST OF WATER AND REMOVAL SHALL BE CONTRACTOR COST. DO NOT INSTALL SUBMERGIBLE PUMPS IN TANKS FILLED WITH WATER. DO NOT BALLAST TANKS ABOVE LEVEL OF BACKFILL.

- 3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE WATERS WITH DAMS, BERMS, OR OTHER MEANS PENDING COMPLETION OF INSTALLATION. EXCAVATION SHALL BE MARKED AT ALL TIMES WITH LIGHTED BARRICADES UNTIL INSTALLATION IS COMPLETE. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATION. DEWATER AS REQUIRED TO MAINTAIN EXCAVATION DRY AS POSSIBLE.

5 CONCRETE

PART 1 - GENERAL

1. SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

PART 2 - PRODUCTS

- 2.1 MATERIALS:
- 2.1.1 AIR ENTRAINING AGENT: ASTM C 260-60-T, "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL.
- 2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT.
- 2.1.3 AGGREGATES: CONFORM TO ASTM C-33.
- 2.1.4 WATER: SHALL BE CLEAN AND POTABLE.
- 2.1.5 SAND: CONFORM TO ASTM C-144.
- 2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHERWISE) YIELD STRENGTH 60,000 PSI.
- 2.1.7 WELDED WIRE FABRIC: CONFORM TO ASTM A-185.
- 2.1.8 ACCESSORIES INCLUDING BAR SUPPORTS, CHAIRS, ETC., SHALL BE MANUFACTURED DEVICES OF THE HEIGHTS REQUIRED.
- 2.1.9 FORMS: CLEAN STRAIGHT LUMBER OR MOISTURE RESISTANT PLYWOOD, KNOT HOLES, DEFORMATIONS, ETC., SHALL NOT BE ALLOWED.
- 2.1.10 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-957. USE 1/2" THICK OR AS INDICATED ON DRAWINGS.
- 2.1.11 CALCIUM CHLORIDE: NOT PERMITTED.

- 2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH, ALL CONCRETE, UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE. NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN 4" SLUMP. AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

5 CONCRETE - continued

PART 3 - EXECUTION

- 3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS BY MEANS OF LINE AND GRADE STAKES AND SCREEDS.
- 3.2 FORM WORK: BUILD FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS. BRACE AND SECURE TO WITHSTAND PLACING OF CONCRETE AND MAINTAIN THEIR SHAPES AND POSITIONS. MAKE FORMS SUFFICIENTLY TIGHT AND SUBSTANTIALLY ASSEMBLED TO PREVENT BLOWING OR LEAKAGE. ASSEMBLE FORMS IN SUCH A MANNER TO FACILITATE THEIR REMOVAL WITHOUT DAMAGE TO CONCRETE. FORMS SHALL BE IN OR NEAR NEW CONDITION, CLEAN, SMOOTH AND WITHOUT INDENTATIONS OR BENDS. INSTALL SLEEVES, MANHOLES, CAPS, BOXES AND POSTS IN PROPER LOCATIONS AND HEIGHTS. EXPANSION JOINTS SHALL CONSIST OF FILLER STRIPS INSTALLED WITH TOP AT ELEVATIONS OF FINISHED CONCRETE. NEATLY FINISH EDGES OF EXPOSED CONCRETE ALONG JOINTS WITH A SLIGHTLY ROUNDED EDGING TOOL.

- 3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL INDICATED ON DRAWINGS. METAL REINFORCEMENT, AT THE TIME CONCRETE IS PLACED, SHALL BE FREE FROM COATINGS WHICH WILL DESTROY OR REDUCE THE BOND. METAL REINFORCEMENT SHALL BE STORED SO AS TO PREVENT FREEZING FOR A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT. ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH STANDARDS OF ACI. METAL REINFORCEMENT SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. SPLICES IN ADJACENT BARS SHALL BE LAPPED 36 DIAMETERS AT CORNERS AND SPLICES. ADJACENT SHEETS OF WIRE MESH SHALL BE LAPPED AT LEAST 6" AND SECURELY WIRED. SUPPORT ALL REINFORCEMENT WITH BAR SUPPORTS/CHAIRS. ALL JOINTS WITH EXISTING CONCRETE SHALL HAVE #4 DOWELS 12" O/C INSERTED AT LEAST 10" INTO EXISTING CONCRETE AND EPOXIED TO EXISTING CONCRETE.

- 3.4 MIXING AND TRANSPORTING CONCRETE: CONCRETE SHALL BE READY MIXED AND SHALL MEET REQUIREMENTS OF ASTM C-94 FOR MIXING AND DELIVERY. FURNISH DUPLICATE DELIVERY TICKETS OF EACH TRUCK LOAD TO OWNER/OWNER'S AGENT LOCAL CONSTRUCTION OFFICE WHEN REQUIRED. TICKETS SHALL SPECIFY STRENGTH, SLUMP, AGGREGATE SIZES, AIR ENTRAINMENT (IF ANY) AND BRAND OF CEMENT. NOTE AMOUNT OF WATER ADDED AT JOB.

- 3.5 PLACING CONCRETE:
- 3.5.1 NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S AGENT AT LEAST 48 HOURS BEFORE PLACING ANY CONCRETE. THE CONTRACTOR SHALL NOTIFY ALL TRADES AFFECTED BY CONCRETE PLACEMENT AT LEAST 24 HOURS BEFORE PLACING ANY CONCRETE IN ORDER THAT TRADES IMPACTED MAY INSTALL REQUIRED BLOCKING, SLEEVES, POCKETS, ETC.
- 3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED.
- 3.5.3 WETTING: THOROUGHLY WET FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE.
- 3.5.4 PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL CONFORM TO ACI 318. USE HANDLING EQUIPMENT AND METHODS TO INSURE A CONTINUOUS FLOW FROM MIXER TO PLACE OF DEPOSIT. SPACE, TAMP AND MECHANICALLY VIBRATE FRESHLY PLACED CONCRETE TO COMPACT THOROUGHLY AND ELIMINATE VOIDS. DO NOT ALLOW FREE FALL OF CONCRETE TO EXCEED 5'.

- 3.6 FINISHING CONCRETE:
- 3.6.1 SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION IN EXCESS OF 1/4" WHEN TESTED WITH A 10' STRAIGHTEDGE AT 3' INTERVALS IN BOTH DIRECTIONS. SCREED AND FLOAT CONCRETE FOR SLAB WITH STRAIGHTEDGES TO BRING SURFACE TO REQUIRED FINISHED LEVEL. WOOD FLOAT CONCRETE WHILE STILL GREEN TO A TRUE, EVEN SURFACE WITH NO COARSE AGGREGATE VISIBLE. AFTER SURFACE MOISTURE HAS DISAPPEARED, STEEL TROWEL SURFACE TO A SMOOTH, EVEN FINISH, FREE FROM BLEMISHES AND TROWEL MARKS. AFTER TROWELING, BRUSH SURFACE OF CONCRETE WITH A BRISTLE BROOM TO RESULT IN A MEDIUM, UNIFORM, NONSLIP TEXTURED SURFACE. STROKE CROSSWISE TO LENGTH.

- 3.7 CURING: CALCIUM CURE SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTIVE CURE FOR ALL SLABS. DO NOT USE CALCIUM CHLORIDE. CURING METHODS SHALL CONFORM TO ACI STANDARD 605-99 AND ACI STANDARD 308-66.
- 3.8 REMOVAL OF FORMS: DO NOT REMOVE FORMS UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS.
- 3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER/OWNER'S AGENT.

- 3.10 TEMPERATURE:
- 3.10.1 COLD WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 DEGREES FAHRENHEIT, MAINTAIN TEMPERATURE OF CONCRETE BETWEEN 50 AND 70 DEGREES FAHRENHEIT FOR MINIMUM OF 72 HOURS.
- 3.10.2 HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKERS, SHADING, FOG SPRAY, SPRINKLING, FLOODING OR WET COVERING IN ADVANCE OF PLACEMENT. TAKE SUCH PROTECTIVE MEASURES AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.

- 3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER/OWNER'S AGENT OR CONSTRUCTION MANAGER. THE OWNER SHALL PAY FOR ALL CONCRETE TESTING. COMPACTION TESTS SHALL BE REQUIRED PRIOR TO PLACEMENT OF ANY CONCRETE ON GRADE. CONTACT OWNER'S ENGINEERING SERVICES FOR COMPACTION TESTS. TESTS PAID BY OWNER.

- 3.12 THICKNESS:
- 3.12.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH 1/4 REINFORCING BARS AT 12" O.C. EACH WAY ON 3 1/2" SUPPORT CHAIRS.
- 3.12.2 PAVING AND ISLAND SLABS SHALL BE 6" CONCRETE. REINFORCEMENT SHALL BE #4S AT 12" O.C. EACH WAY. ON 2 1/2" SUPPORT CHAIRS.

- 3.13 CANOPY FOOTINGS: CANOPY FOOTINGS SHALL BE INSTALLED BY CANOPY CONTRACTOR AS PER SHOP DRAWINGS SUPPLIED BY CANOPY VENDOR. ALL MATERIALS SHALL BE EQUAL TO OR BETTER THAN SPECIFIED ELSEWHERE IN THIS SECTION.
- 3.14 PROTECTION OF ALL CONCRETE SURFACES: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL CONCRETE SURFACES AGAINST ANY DAMAGE WHATSOEVER, INCLUDING EXCESSIVE LOADING, SHIPPING, CRACKING, STAINING, PAINT SPATTERS, ETC. THE OWNER EXPECTS EXPOSED CONCRETE SURFACES TO BE CLEAN AND OF UNIFORM COLOR AND TEXTURE AT COMPLETION OF THE PROJECT. REPLACE ANY CONCRETE DAMAGE DURING CONSTRUCTION.

- 3.15 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

6 PIPING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR INCIDENTAL TO A COMPLETE PLUMBING SYSTEM FOR A UNDERGROUND FUEL INSTALLATION.

PART 2 - PRODUCTS

- 2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE CO-FLEX DOUBLE WALL FRANKLIN UPP. TANK MANUFACTURE BY FRANKLIN SLUMP RISERS AND DISPENSERS SHALL BE UTILIZED SO AS TO PROVIDE ACCESS TO ALL PRIMARY AND SECONDARY PIPE FITTINGS.

- 2.2 VENT PIPING: PIPING SHALL BE SCHEDULE 40, 2" BLACK IRON FOR GASOLINE AND DIESEL AND STAINLESS STEEL FOR DEF WITH 150 PSI FITTINGS. VENT LINE RISERS SHALL BE GALVANIZED PIPE AND EXTEND 4 FEET ABOVE ADJACENT STRUCTURE OR 12 FEET ABOVE FINISHED GRADE. VENT LINE RISERS SHALL NOT BE INSTALLED ON BUILDING UNLESS APPROVED IN WRITING.

N/A

- 2.3 BACKFILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S SPECIFICATIONS.

PART 3 - INSTALLATION

- 3.1 ALL PRODUCT PIPING AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES.
- 3.2 THE DRAWINGS ARE DIAGRAMMATIC AND THE FINAL ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS, THE CHARACTERISTICS OF THE MATERIALS USED, AND THE INSTRUCTIONS OF THE CONSTRUCTION MANAGER. VERIFY ALL DIMENSIONS IN THE FIELD. ACCESS AND CLEARANCES MUST BE PROVIDED AND MAINTAINED FOR THE PROPER OPERATION, MAINTENANCE, SERVICE AND REPAIR OF THE WORK.

- 3.3 LOCATE, IDENTIFY AND MARK EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK PROCEDURES.

- 3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH THE OWNER/OWNER'S AGENT AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES IN SATISFACTORY CONDITION.

- 3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, AND AUTO GAUGING ADAPTATIONS SHALL BE A 4" DIAMETER PIPE.
- 3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER, AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

- 3.7 CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA. DO NOT USE TRENCH EXCAVATIONS FOR SITE UTILITIES AS TEMPORARY DRAINAGE DITCHES. REMOVE ALL TRASH, DEBRIS AND FOREIGN MATERIAL FROM TRENCHES PRIOR TO PLACING PIPING MATERIAL.

- 3.8 ALL PRODUCT AND VENT LINES SHALL SLOPE UP FROM TANKS A MINIMUM OF 2" IN 8' (1/8" FT) WITH NO SAG OR TRAPS. LINES SHALL BE IN TRENCHES WITH A MINIMUM OF 6" OF BACKFILL MATERIAL ON ALL SIDES, HORIZONTAL AND VERTICAL.

6 PIPING - continued

PART 3 - INSTALLATION

- 3.9 SUBMERGED PUMP: FILL PIPE, AUTO GAUGING ADAPTORS AND VAPOR RECOVERY ADAPTOR SHALL BE LOCATED AT TANK OPENINGS AS SHOWN ON DRAWINGS.

- 3.10 FILL PIPE SHALL HAVE OVERSPILL CONTAINMENT SYSTEM INSTALLED AS SHOWN ON DWGS.

- 3.11 FILL PIPE SHALL HAVE SUBMERGED FILL TUBE. FILL PIPE AND VAPOR RECOVERY RISERS SHALL BE CUT TO THE PROPER LENGTH SO THAT FINISHED BURN HEIGHT WILL BE WITHIN 5" (+ OR - 1") OF THE TOP OF THE MANHOLE.

- 3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED AS SHOWN IN DRAWINGS.

- 3.13 SHUT-OFF VALVES SHALL BE INSTALLED ON THE PRODUCT LINES UNDER EACH DISPENSER AND SECURED TO THE ISLAND PUMP BOX. THESE VALVES MUST BE INSTALLED WITH THE SHEAR SECTION AT THE SAME LEVEL OR A MAXIMUM OF 3/4" ABOVE OR BELOW THE TOP OF THE ISLAND.

- 3.14 AFTER ALL PIPING IS COMPLETE AND PRIOR TO BACKFILLING, ALL PIPING INCLUDING VENT LINES SHALL BE ISOLATED FROM THE TANK AND TESTED PER MANUFACTURER'S TESTING INSTRUCTIONS.

N/A

- 3.15 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST, REFER TO LIST OF MATERIALS SUPPLIED BY OWNER/OWNER'S AGENT.

- 3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED. WELLS ARE TO BE POSITIONED IN EXCAVATION HOLE PRIOR TO PLACING BEDDING MATERIAL AND SUPPORTED TO REMAIN VERTICAL DURING BACKFILL OPERATIONS. BOTTOM OF OBSERVATION WELL(S) SHALL BE 12" MINIMUM BELOW THE BOTTOM OF TANK EXCAVATION PIT. TOP OF PIPE TO TERMINATE IN 12" DIAMETER OBSERVATION BOX. SLOTTED SAMPLE WELL MATERIAL SHALL BE FURNISHED BY CONTRACTOR.

- 3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, LATEST EDITION, IS BY REFERENCE MADE PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.

- 3.19 START-UP: PRIOR TO START-UP AND CHECK-OUT OF SYSTEM, PRODUCT LINES SHALL PASS HYDROSTATIC LINE TEST. ALL SITE IMPROVEMENTS, INCLUDING PAVEMENTS AND UTILITIES, SHALL BE COMPLETED.

- 3.20 INSPECTIONS: PLUMBING INSPECTION SHALL BE PERFORMED BY CEFCO

- 3.21 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

7 ELECTRICAL WORK

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:

- 1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANELBOARDS, OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC.
- 1.1.2 CONDUIT AND WIRING SYSTEM FOR INTERCOM.
- 1.1.3 WIRING SYSTEM TO SERVE ALL ELECTRIC-USING DEVICES, LIGHTING FIXTURES, PUMPS, ETC.
- 1.1.4 POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT.
- 1.1.5 ALL CONDUITS, CONNECTIONS, WIRE AND STUB-OUTS FOR FASCIA SIGN(S) (WHEN SHOWN), CANOPY LIGHTS, PRICE SIGN(S) AND CANOPY MOUNTED FLOOD LIGHTS.
- 1.1.6 CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS.
- 1.1.7 ALL TRENCHING, EXCAVATIONS AND BACKFILL AS REQ. IN CONJUNCTION W/ ELEC. WORK.
- 1.1.8 INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRIC CODE.

- 1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA, NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY. REPORT TO OWNER/OWNER'S AGENT IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES OR TO BE HELD RESPONSIBLE FOR COMPLIANCE TO THESE CODES AND REGULATIONS. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.

- 1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.
- 1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO

- 1.5 CUTTING AND REPAIRING: PROVIDE ALL CUTTING, CHANNELING, PATCHING, ETC. AS NECESSARY FOR ELECTRICAL WORK UNDER DIRECTION OF GENERAL CONTRACTOR. WORK FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER/OWNER'S AGENT AT NO ADDITIONAL COST TO THE OWNER. REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR BY THE ELECTRICAL SUBCONTRACTOR.

PART 2 - PRODUCTS

- 2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION W/ DVMO TAPE OR EQUAL, FOR ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCHGEAR, PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.

- 2.2 LIGHT FIXTURES: TO BE PROVIDED BY OWNER.
- 2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE W/ THE SPECIFIC APPLICATION OF LOCATION INDICATED:
- 2.3.1 RIGID GALVANIZED STEEL: WHERE EXPOSED TO THE WEATHER; FOR ENCLLOSING MAIN GROUNDING CONDUCTOR; WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED. MATERIAL SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, REPUBLIC STEEL, YOUNGSTOWN STEEL AND TUBE, OR EQUAL. PROTECT WITH ASPHALTIC PROTECTIVE COATING WHEN BELOW FINISH GRADE.
- 2.3.2 SEALOFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, SUBMERSIBLE PUMPS, AND INTERIOR DISTRIBUTION PANEL.
- 2.3.3 PVC CONDUITS: ALL WIRING RUNS BURIED UNDERGROUND UNLESS OTHERWISE INDICATED. MATERIAL SHALL BE HEAVY WALL, TYPE II RIGID, SCHEDULE 40 AS MANUFACTURED BY CARLON, BALDWIN, TRIANGLE, OR EQUAL. PVC CONDUITS SHALL BE U.L. LISTED AND APPROVED.

- 2.4 CONDUCTORS:
- 2.4.1 FINISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (90 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING, TYPE THN (90° CENTIGRADE) FOR SUPPLY CONNECTIONS TO LIGHT FIXTURES. INSTALL PER NEC COLOR CODE.
- 2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.

- 2.5 SPLICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES, PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES W/ OVERALL NYLON INSULATORS FOR CONDUCTORS. CONNECTORS SHALL BE 3M SCOTCHLOK, BUCHANAN SPLICE CAPS W/ INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL.

- 2.6 PANELBOARDS:
- 2.6.1 BRANCH CIRCUIT PANELBOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANELBOARDS WITH THERMAL MAGNETIC, MOLDED CASE, GENERAL ELECTRIC TYPE NLB OR APPROVED EQUAL, WITH PLUG-IN CIRCUIT BREAKERS, GENERAL ELECTRIC TYPE NLQT OR APPROVED EQUAL, PROVIDED GROUNDING TERMINAL BLOCK IN EACH PANELBOARD. SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.
- 2.6.2 ACCEPTABLE SUBSTITUTES: DISTRIBUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY IN ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY CUTLER-HAMMER, FEDERAL PACIFIC, ITE, SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES, WHEN APPROVED IN WRITING.

7 ELECTRICAL WORK - continued

PART -3 EXECUTION

- 3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOK-UPS AND MISCELLANEOUS PROCEDURES WITH ALL OTHER TRADES THAT WILL BE INVOLVED TO EXPEDITE THE COMPLETION OF THE CONTRACT. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.

- 3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR ALL WIRING AND CONDUCTORS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- 3.2.1 CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER/OWNER'S AGENT IN WRITING.
- 3.2.2 ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED. CONDUITS AT TANKS SHALL NOT CROSS OVER TANKS. PLACE CONDUIT THROUGH EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.
- 3.2.3 CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN.
- 3.2.4 FLASH AND COUNTER FLASH CONDUITS WHICH PENETRATE THE CANOPY DECKING.
- 3.2.5 PROVIDE SEAL-OFF FITTINGS WHERE CONDUIT RUNS ENTER OR LEAVE HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.
- 3.2.6 FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM, FUEL PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON FUEL DRAWINGS. ADDITIONAL CONDUITS AND CIRCUITS WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.

- 3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS BE REQUIRED, VERIFY THROUGH OWNER/OWNER'S AGENT AND PROVIDE AS REQUIRED.

- 3.4 SIGNS AND LIGHTED FASCIA: VERIFY FINAL LOCATIONS AND TYPE WITH OWNER. FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.

- 3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM, OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANELBOARDS, SWITCHGEAR, ETC., TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER CRAFTS AND TRADES SO THAT ELECTRICAL EQUIPMENT WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR INOPERABLE. PROVIDE WEATHERPROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.

- 3.6 ISOLATED GROUND: IT IS MANDATORY THAT FUEL EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE PROVIDED WITH SAME. MINIMUM CIRCUITS REQUIRED, BUT NOT LIMITED TO, SHALL BE: INTERCOM, FUEL CONSOLE AND UNDERGROUND FUEL TANK MONITORING SYSTEM.

- 3.7 EXCAVATION AND BACKFILLING: ALL EXCAVATION AND BACKFILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.

- 3.8 OPERATING AND ACCEPTANCE TESTS:
- 3.8.1 CONDUCT OPERATING TEST ON ENTIRE ELECTRICAL INSTALLATION; ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO START-UP AND FINAL CHECKOUT OF SYSTEM COVERED ELSEWHERE. DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER/OWNER'S AGENT. ANY DAMAGE TO OWNER'S EQUIPMENT DUE TO DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THAT SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.
- 3.8.2 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.
- 3.8.3 TEST GROUND: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.
- 3.8.4 INSPECT ALL PANELBOARDS; ALL CONNECTIONS MUST BE TIGHT AND SECURE.

- 3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER/OWNER'S AGENT WITH ONE SET OF MARKED-UP PRINTS SHOWING "AS-BUILT" INSTALLATION.
- 3.10 FINAL ACCEPTANCE: UPON COMPLETION OF WORK, PRESENT CERTIFICATE OF APPROVAL OF LOCATION OR GOVERNING INSPECTION AUTHORITY.

- 3.11 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

8 PAINTING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETION OF ALL PAINTING OF SURFACES COMPLETE, INCLUDING PAINTING OF THE FOLLOWING SURFACES:
- 1.1.1 MISCELLANEOUS METAL, DOWNSPOUTS, COLUMNS, POSTS, ISLAND FORMS, VENT LINES, MANHOLE COVERS AND ELECTRICAL CONDUITS.

- 1.2 PAINTING DOES NOT INCLUDE:
- 1.2.1 PAINTING CANOPY SOFFITS.
- 1.2.2 PAINTING LIGHT FIXTURES.
- 1.2.3 PAINTING FASCIA SIGN FRAMES.
- 1.2.4 PAINTING FUEL EQUIPMENT.

- 1.3 COLOR SCHEDULE: COLOR OF PAINTS SHALL BE AS LISTED IN COLOR SCHEDULE.

PART 2 - PRODUCTS

- 2.1 PAINT MANUFACTURERS AND PRODUCTS: PAINTING SYSTEM AS SPECIFIED HEREIN IS BASED ON PRODUCTS OF THE GLIDDEN COATING & RESINS COMPANY, A DIVISION OF SCM CORPORATION. HOWEVER, EQUAL PAINTING SYSTEMS OF PRATT & LAMBERT, PPG INDUSTRIES AND BENJAMIN MOORE WILL BE CONSIDERED.

- 2.2 PAINTING COATS AND PRODUCTS:
- 2.2.1 FUEL ISLAND METALS AND VENT LINES: SHALL BE GLIDDEN SPREAD LUSTRE ALKYL SEMI-GLOSS PAINT #4656 ARCHITECTURAL BROWN.
- 2.2.2 PAINT ALL MANHOLE COVERS AND 4" SURROUNDING CONCRETE, INSIDE AND OUT, IN ACCORDANCE WITH STANDARD INDUSTRY COLOR CODE AS SHOWN:

- G. C. TO USE BLACK COLOR FOR ALL COVERS U.N.O. RE: FUEL DRAWINGS. API COLOR CODES
- | | |
|--|---|
| ETHANOL UNLEADED REGULAR UNLEADED PREMIUM LEADED REGULAR W/ EXTENDER UNLEADED REGULAR W/ EXTENDER UNLEADED PREMIUM W/ EXTENDER DIESEL VAPOR RECOVERY | SOLID PURPLE WHITE W/ BLACK CROSS RED W/ WHITE CROSS BLUE W/ WHITE BAND WHITE W/ BLACK CROSS & BLACK BAND RED W/ WHITE CROSS & WHITE BAND SOLID YELLOW SOLID ORANGE |
|--|---|

PART 3 - EXECUTION

- 3.1 PROTECTION: COVER ENTIRE CONCRETE SURFACES, NO PAINT OR SOLVENT SHALL BE ALLOWED TO COME IN CONTACT WITH CONCRETE SURFACES, WHERE IT BECOMES NECESSARY, IN ORDER TO EXECUTE HIS OWN WORK. FOR PAINTER TO

TANK, PIPING & INSTALLATION NOTES:

GENERAL NOTES:

1. ALL NEW PETROLEUM EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE DEP APPROVED. ALL PETROLEUM EQUIPMENT, MATERIALS AND ACCESSORIES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE MANUFACTURER'S INSTRUCTIONS.
2. ALL TANKS AND PIPING INSTALLATION WORK IS TO BE PERFORMED BY A STATE REGISTERED POLLUTANT STORAGE SPECIALTY CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICANT STATE, COUNTY AND MUNICIPAL BUILDING CODE REQUIREMENT AND ORDINANCES, AND THE FOLLOWING REFERENCE STANDARDS:

NATIONAL FIRE PROTECTION ASSOCIATION:
 30 FLAMMABLE AND COMBUSTIBLE LIQUID CODE
 30A AUTOMOTIVE SERVICE STATION CODE
 329 UNDERGROUND LEAKAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS
 70 NATIONAL ELECTRIC CODE

AMERICAN PETROLEUM INSTITUTE:
 1615 INSTALLATION OF UNDERGROUND PETROLEUM STORAGE SYSTEMS
 1604 RECOMMENDED PRACTICE FOR ABANDONMENT OR REMOVAL OF USED U.G. STORAGE TANKS

PETROLEUM EQUIPMENT INSTITUTE:
 RP1DO RECOMMENDED PRACTICES FOR INSTALLATION OF U.G LIQUID STORAGE TANKS

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:
 CONSTRUCTION SAFETY AND HEALTH REGULATIONS SUBPART P. 1902.50 THRU 1926.653

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING REQUIRED NOTICE(S) AND SCHEDULING APPLICABLE CITY, COUNTY AND/OR STATE INSPECTIONS AS REQUIRED FOR PERMIT CLOSE OUT(S).

5. STANDARD TANK/PIPING TEST SPECIFICATIONS
 -CERTIFIED CONTRACTOR TO PERFORM CARB TP-201.3, IN ADDITION TO THE FOLLOWING STANDARD TESTING:
 *** HYDROSTATIC TESTING FOR SPILL BUCKETS AND SUMPS
 *** PRECISION PRESSURE TESTING OF TANKS AND LINES

GENERAL PIPING NOTES:

1. GENERAL:

PIPING:

- 1.1. PRIMARY PRODUCT PIPING TO UTILIZE UPP PIPING AND PIPING LENGTHS SHALL USE 33 FT. STICKS BETWEEN DISPENSER POINTS. THESE WILL HAVE TO BE SHORTENED, AS NEEDED.

- 1.2. STEEL PIPE TO BE SCHEDULE 40 GALVANIZED. ALL PIPING AND SEALANT TO BE ALCOHOL COMPATIBLE.

2. PIPE JOINT SEAL:

- 2.1. GASOLINA SOFT SET SHALL BE USED ON ALL STEEL PIPE FITTINGS AND THREADED METAL CONNECTIONS.

3. TANK VENTS:

- 3.1. ALL TANKS VENTS SHALL BE S/W F/G PIPING. RISERS WILL BE SCHEDULED 40 GALVANIZED STEEL. CANOPY MANUFACTURER SUPPLIES IN-COLUMN PORT/10N OF VENT-RISER.

4. BACKFILL:

- 4.1. BACKFILL OVER PRODUCT PIPING SHALL BE CLEAN, COMPACTED PEA GRAVEL. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON 6" OF COMPACTED PEA GRAVEL.

- 4.2. NO PIPING SHALL BE SUPPORTED BY BLOCKS, PLANKS OR OTHER DEBRIS.

- 4.3. PIPING SHALL BE SEPARATED BY AT LEAST THE DIAMETER OF THE LARGER PIPE.

5. SLOPE:

- ALL PIPING MUST SLOPE TO UNDERGROUND TANKS. VENT AND VAPOR RECOVERY PIPING MUST SLOPE AT A MINIMUM RATE OF 1/8" PER FOOT.

6. MINIMUM 18" BEND RADIUS FOR CONDUIT. MINIMUM 5' RADIUS FOR PRODUCT PIPING.

ELECTRICAL NOTES:

1. N.E.C. ARTICLE 500 & 514 CONDITIONS FOR HAZARDOUS AREAS AND FUEL DISPENSING FACILITIES APPLY.

2. PROVIDE EXPLOSION PROOF SEALS-OFFS IN ACCORDANCE WITH ARTICLES 500, 501, AND 514 (CLASS 1, DIVISION 1 & 2) OF THE 2008 NATIONAL ELECTRICAL CODE TYPICAL FOR ALL CONDUITS IN CLASS 1 LOCATIONS, INCLUDING LOW VOLTAGE CONDUITS.

3. ALL CONDUITS IN CLASS 1 LOCATIONS SHALL BE GROUNDED AS PER NEC. 250.100 & 501.30. MATERIALS.

MATERIAL:

1. UPP SYSTEM SOLUTION PIPING IS TO PROVIDE SUFFICIENT PIPING AND FITTINGS TO COMPLETE ANY TYPICAL INSTALLATION TO THE INSTALLER BY THE OWNER. UNUSED MATERIALS SHALL BE INVENTORIED AND RETURNED CEFCO REPRESENTATIVE.

2. THERE ARE ONE TYPES OF PIPING:

- 2.1. COAXIAL, SECONDARILY CONTAINED DIRECT BURIAL FLEXIBLE PIPING "UPP UL971" WITH A 50 MM (2") I.D. PRIMARY AND A 63 MM (2.5") O.D. SECONDARY. THIS PIPING IS TYPICALLY DELIVERED IN ROUND ROLLS.

3. INSTALLATION REQUIREMENTS ARE SIMILAR FOR BOTH THE COAXIAL AND THE SINGLE THICKNESS PIPING.

4. FITTINGS FOR ELBOWS, TEES, NPT ADAPTORS AND BULKHEAD PENETRATION WITH UPP ARE PROPRIETARY, AND NO SUBSTITUTIONS ARE PERMITTED.

5. TOOLS FOR HANDLING AND INSTALLATION ARE PROPRIETARY FOR UPP PIPING AND SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE INSTALLER.

6. DISPENSER SUMPS ARE POLYETHYLENE PRODUCTS OF UPP, WHILE THE TANK SUMP ARE OF FIBERGLASS CONSTRUCTION. FOR BONDING TO THE SECONDARY CONTAINMENT RING OF THE UNDERGROUND TANK. THIS SUMP IS PRESENTLY NOT A UPP PRODUCT.

HANDLING:

1. HANDLE UPP PIPING AND FITTINGS WITH CARE. AS WITH ANY PETROLEUM PIPING. DO NOT ACCEPT PIPING FOR USE WHERE SURFACE DAMAGE, CUTS, GOUGES, EXCEEDS ONE TENTH(LD%) OF THE MATERIAL THICKNESS.

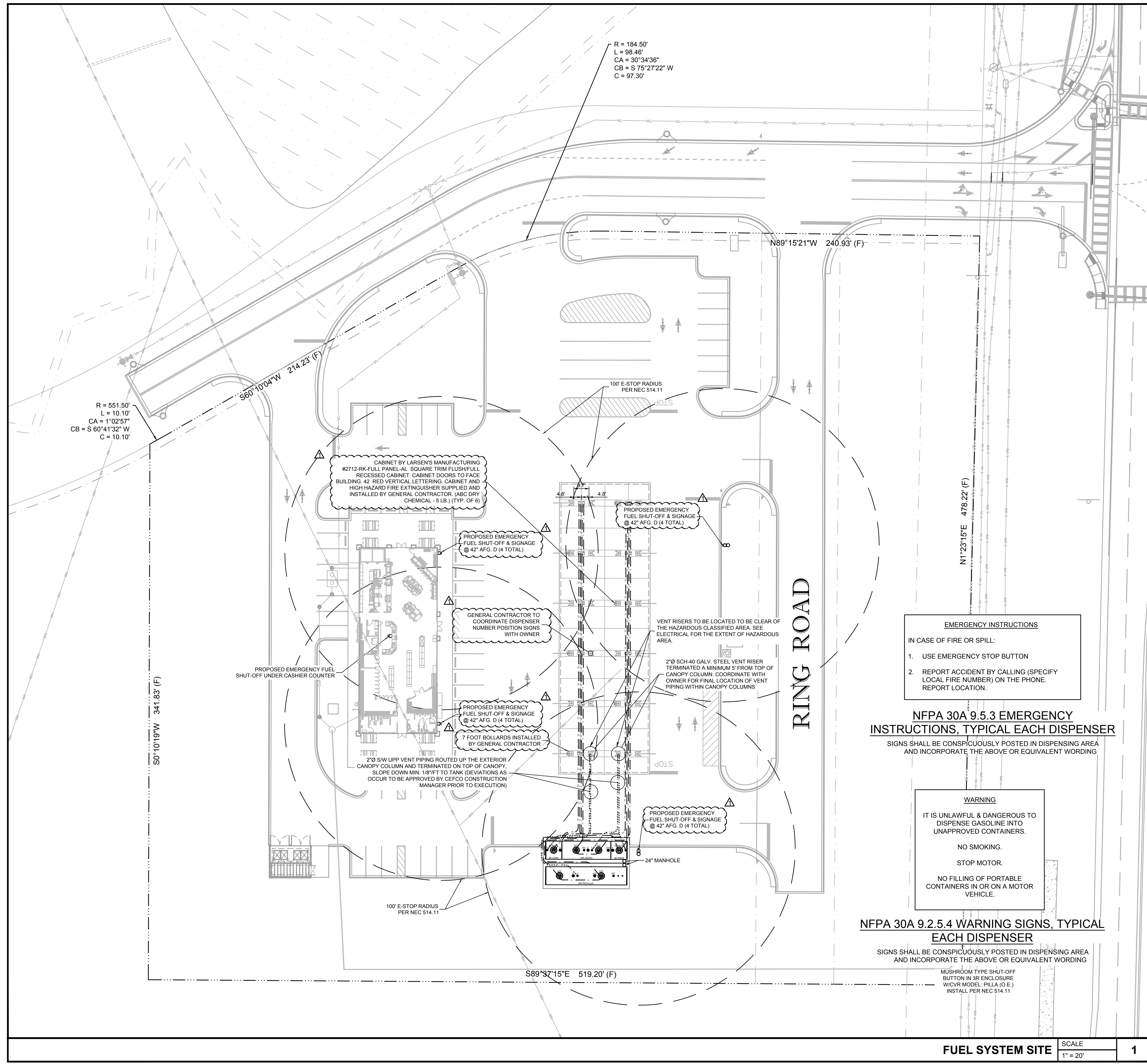
2. USE NO METALLIC SLINGS TO LIP UPP PIPING.

3. UPP PIPING, WHILE FLEXIBLE, MAY CONTAIN MORE STORED ENERGY THAN COMPARABLE PRODUCTS SHIPPED IN ROLLS. USE ADDITIONAL PERSONNEL AND SLIP KNOT ROPE AROUND BUNDLE WITHIN RELEASING PACKING BANDS.

4. USE ONLY UPP CUTTERS AND SHAVERS FOR PIPE PREPARATIONS.

5. THE ELECTOR FUSION WELDER IS NOT EXPLOSION PROOF. DO NOT POSITION THE UNIT IN ANY CLASSIFIED HAZARDOUS AREAS OR WHERE AN EXPLOSIVE ATMOSPHERE MAY EXIST.

6. UPP SYSTEM SOLUTION PIPING USES TECHNOLOGY WHICH MAY BE UNFAMILIAR TO THE INSTALLER. DO NOT ATTEMPT INSTALLATION PRIOR TO TRAINING BY AUTHORIZED PETROTECNIC PERSONNEL.



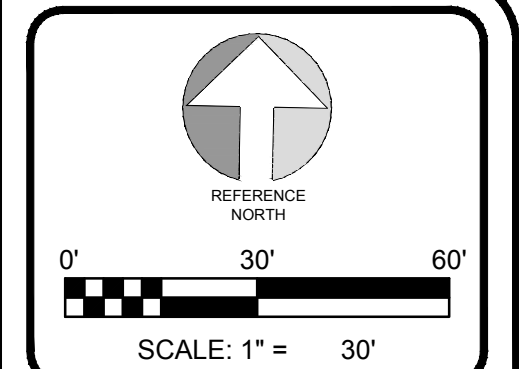
EMERGENCY INSTRUCTIONS
 IN CASE OF FIRE OR SPILL:
 1. USE EMERGENCY STOP BUTTON
 2. REPORT ACCIDENT BY CALLING (SPECIFY LOCAL FIRE NUMBER) ON THE PHONE. REPORT LOCATION.

NFPA 30A 9.5.3 EMERGENCY INSTRUCTIONS, TYPICAL EACH DISPENSER
 SIGNS SHALL BE CONSPICUOUSLY POSTED IN DISPENSING AREA AND INCORPORATE THE ABOVE OR EQUIVALENT WORDING

WARNING
 IT IS UNLAWFUL & DANGEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS.
 NO SMOKING.
 STOP MOTOR.
 NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE.

NFPA 30A 9.2.5.4 WARNING SIGNS, TYPICAL EACH DISPENSER
 SIGNS SHALL BE CONSPICUOUSLY POSTED IN DISPENSING AREA AND INCORPORATE THE ABOVE OR EQUIVALENT WORDING

MUSHROOM TYPE SHUT-OFF BUTTON IN 3R ENCLOSURE W/COVER MODEL: P11A (O.E.) INSTALL PER NEC 514.11



No.	Revision/Issue	Date
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1	ISSUE FOR PERMIT	03/12/2023

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Date

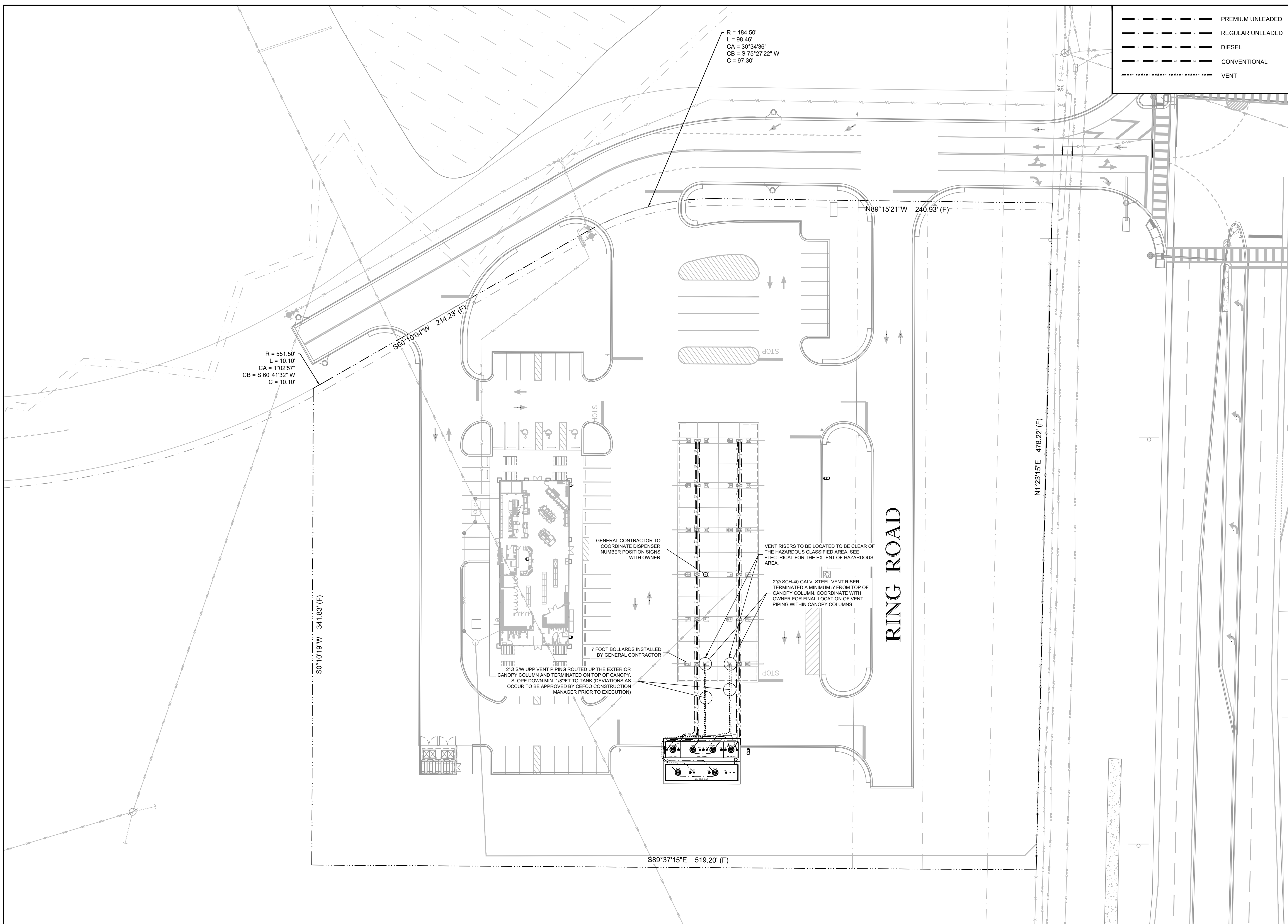
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
FUEL SYSTEM SITE PLAN

Project No.
 170-95.00

Drawn By:
 T1.0

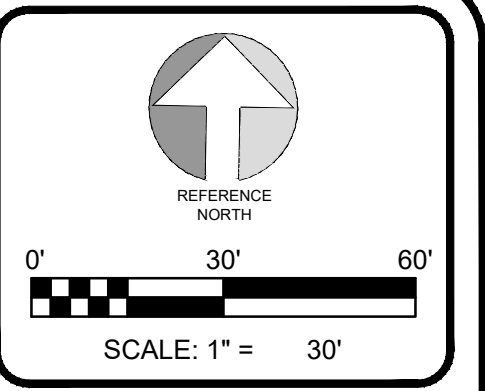
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R = 184.50'
 L = 98.46'
 CA = 30°34'36"
 CB = S 75°27'22" W
 C = 97.30'

R = 551.50'
 L = 10.10'
 CA = 1°02'57"
 CB = S 60°41'32" W
 C = 10.10'

---	PREMIUM UNLEADED
---	REGULAR UNLEADED
---	DIESEL
---	CONVENTIONAL
---	VENT



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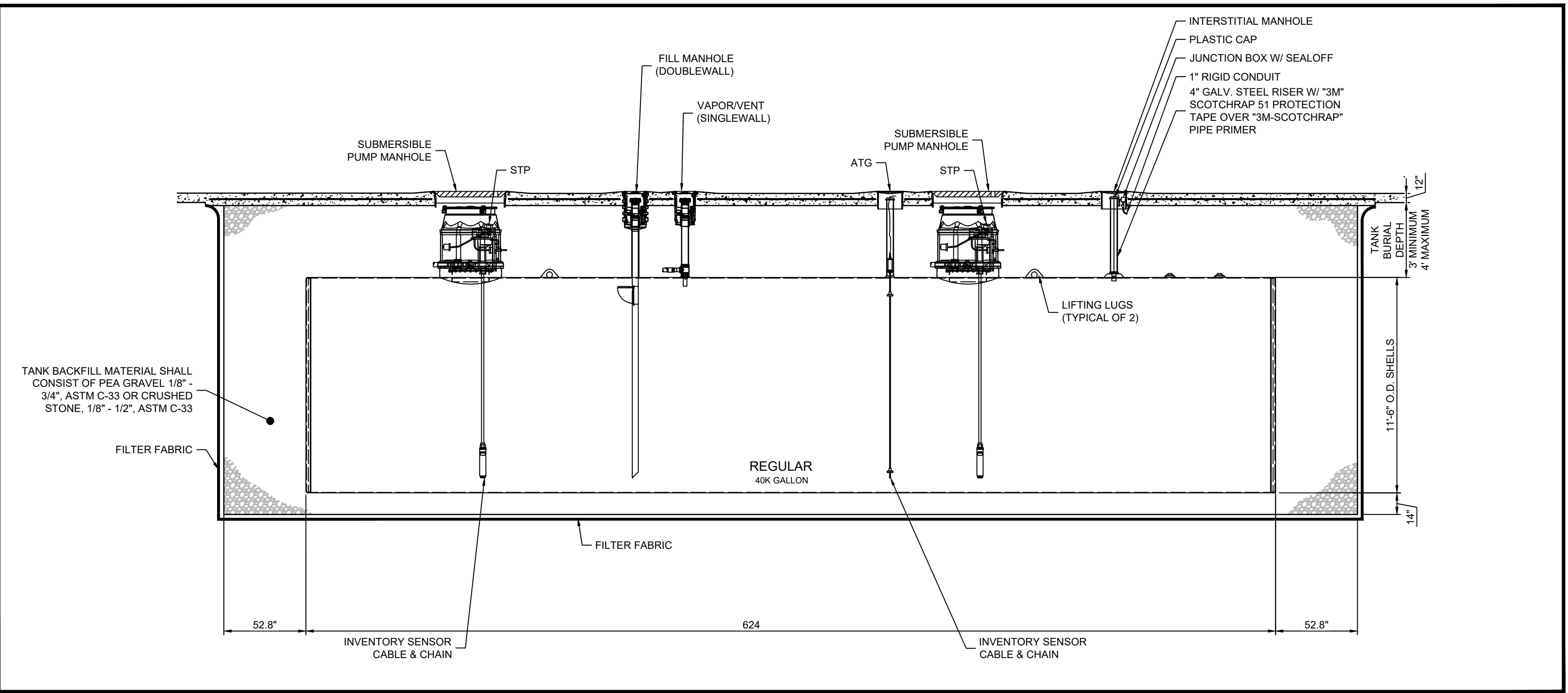
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

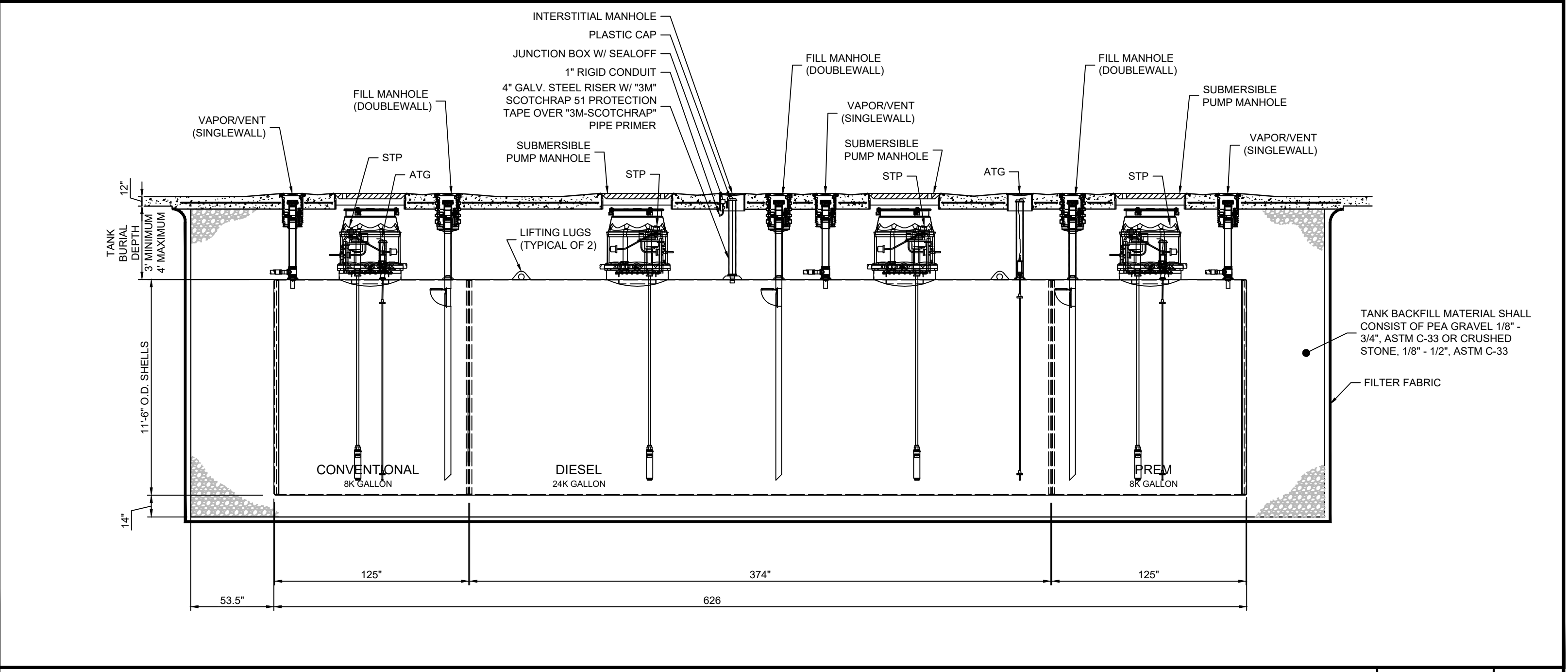
Sheet Title
FUEL PIPING LAYOUT

Project No. 170-95.00	Sheet 1
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FUEL PIPING LAYOUT
 SCALE
 1" = 20'



TANK SECTION - 40K GALLON REGULAR SCALE NTS **1**



COMPARTMENTED 40K GALLON TANK SECTION - 8K GALLON CONV/24K GALLON DIESEL/8K GALLON PREM SCALE NTS **2**

TANK INSTALLATION

- 1.0 CONTRACTOR SHALL COORDINATE DELIVERY DATE OF TANKS WITH THE MANUFACTURER, CEFCO CONSTRUCTION MANAGER, AND THE PROJECT SCHEDULE.
- 2.0 TANK MANUFACTURER'S INSTALLATION PROCEDURE SHALL BE FOLLOWED, AND THE INSTALLATION CHECKLIST SHALL BE INITIALED/SIGNED BY CONTRACTOR AND CEFCO CONSTRUCTION MANAGER, AS APPROPRIATE, AS EACH STEP IS COMPLETED.
- 3.0 AN UNDERGROUND EQUIPMENT INSTALLATION AFFIDAVIT SHALL BE FILLED OUT BY CONTRACTOR 7.0 AND SUBMITTED TO THE CEFCO CONSTRUCTION MANAGER IN BOUND PROJECT CLOSE OUT FOLDER.
- 4.0 LIFTING EQUIPMENT SHALL BE ADEQUATE TO HANDLE TANK WITHOUT DRAGGING. USE ALL LIFTING LUGS AND GUIDELINES WHEN LIFTING TANKS. REST TANKS ON SMOOTH AND DEBRIS FREE GROUND. CHOCK TANKS TO PREVENT ROLLING AND TIE THEM DOWN IF HIGH WINDS ARE EXPECTED. USE MINIMUM 1/2" DIAMETER NYLON OR HEMP ROPE OVER TANK AND TIE TO WOODEN STAKES OF ADEQUATE SIZE TO PREVENT TANKS FROM BEING MOVED BY HIGH WINDS. DO NOT DRAG, ROLL, OR IMPACT TANKS.
- 5.0 TANK SHALL BE PLACED ACCORDING TO THE TANK MANUFACTURER'S INSTALLATION MANUAL AND THE CEFCO TANK DRAWINGS. PLEASE NOTE THAT IF THE SOIL IS UNSTABLE, THE STANDARDS MAY BE INCREASED. DISTANCE BETWEEN TANKS SHALL BE GOVERNED BY MANUFACTURER'S OR STATE AND LOCAL REQUIREMENTS WHICHEVER IS GREATER.
- 5.1 TANKS SHALL BE CONTINUOUSLY VENTED, BY CONTRACTOR, AT ALL TIMES THROUGHOUT CONSTRUCTION.
- 6.0 PRE-INSTALLATION TANK TESTING.
- 6.1 CEFCO CONSTRUCTION MANAGER SHALL WITNESS PRE-INSTALLATION TANK TESTING.
- 6.2 CONTRACTOR SHALL NOTIFY CEFCO CONSTRUCTION MANAGER TWO WORKING DAYS PRIOR TO TESTING AND TANK INSTALLATION.
- 6.3 TANKS ARE TO BE SET LEVEL AND BACKFILLED TO TOP OF TANK THE SAME DAY AS TESTING.
- 6.4 CONTRACTOR TO PROVIDE TANK TEST MANIFOLD PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- A. CONTRACTOR TO FURNISH AIR PRESSURE GAUGE WITH A MAXIMUM FULL SCALE READING OF 15 PSIG WITH 1/4 OR 1/10 PSIG INCREMENTS. PRESSURE GAUGE TO BE IN GOOD REPAIR AND HAVE A CALIBRATION DATE WITHIN 30 DAYS OF USE. PRESSURE GAUGES DAMAGED OR OUT OF CALIBRATION WILL NOT BE PERMITTED.
- B. THE PRESSURE RELIEF VALVE ON THE TEST MANIFOLD MUST BERATED AT 6 PSIG TO REDUCE THE RISK OF OVER PRESSURIZING THE TANK.
- 6.5 TESTING THE PRIMARY (INTERNAL) TANK
 - A. CONNECT THE TEST MANIFOLD TO AN AVAILABLE SERVICE FITTING. CHECK EACH REMAINING SERVICE FITTING TO ENSURE TANK SERVICE FITTINGS ARE PROPERLY SEATED, ADEQUATELY DOPED, PLUGGED, AND TIGHTENED.
 - B. PRESSURIZE THE PRIMARY TANK TO 5 PSIG. ADD OR REMOVE AIR AS NECESSARY AND ALLOW THE PRESSURE TO STABILIZE. CLOSE THE VALVE ON THE TEST MANIFOLD AIR SUPPLY LINE.
 - C. MONITOR THE PRESSURE FOR 1 HOUR. SOAP TEST (USING HIGH FOAMING TEST SOLUTION - SEAM TEST SOLUTION MANUFACTURED BY WITHIN PRODUCTS, CHARLOTTE, NC, AMWAY LOC SOAP, OR APPROVED EQUAL) ALL SERVICE FITTING, MANWAYS AND PLUGS. WATCH FOR ACTIVE AIR BUBBLES WHICH INDICATE A LEAK.
 - D. CONNECT THE TEST MANIFOLD TO AN AVAILABLE SERVICE FITTING. CHECK EACH REMAINING SERVICE FITTING TO ENSURE TANK SERVICE FITTINGS ARE PROPERLY SEATED, ADEQUATELY DOPED, PLUGGED, AND TIGHTENED.
- 6.6 THE SECONDARY (EXTERNAL) TANK
 - A. MAINTAIN PRESSURE ON THE PRIMARY TANK. PLUG ALL OPEN FITTINGS ON THE SECONDARY TANK.
 - B. FREE THE HOSE FROM THE SERVICE TINTING BY CUTTING THE NYLON SAFETY TIE.
 - C. INSERT THE HOSE INTO THE QUICK DISCONNECT CHECK VALVE. THIS WILL ALLOW AIR TO TRANSFER FROM THE PRIMARY TO THE SECONDARY TANK.
 - D. PRESSURIZE THE 5 PSIG. ADD OR REMOVE AIR VIA THE SUPPLY VALVE AS NEEDED AND ALLOW PRESSURE TO STABILIZE. CLOSE THE VALVE ON THE TEST MANIFOLD TO THE AIR SUPPLY LINE. **DO NOT USE AN AIR COMPRESSOR TO PRESSURIZE THE SECONDARY TANK.**
 - E. MONITOR THE PRESSURE FOR 1 HOUR, SOAP THE ENTIRE EXTERIOR OF THE TANK AND WATCH FOR ACTIVE AIR BUBBLES WHICH INDICATE A LEAK.
 - F. WHEN THE TEST IS COMPLETE, SLOWLY RELEASE AIR PRESSURE FROM THE TANK BY DISCONNECTING THE SUPPLY LINE AND OPENING THE SUPPLY VALVE ON THE TEST MANIFOLD. WHEN AIR FLOW FROM THE SUPPLY VALVE STOPS, REMOVE THE TEST MANIFOLD.

INSTALLATION

- 7.1 INSTALLING CONTRACTOR SHALL BE CERTIFIED BY TANK MANUFACTURER ON PROPER TANK INSTALLATION PROCEDURES.
- 7.2 BEDDING AND BACKFILL MATERIAL SHALL BE WELL WASHED AND FREE OF ICE AND SNOW AND MEET ASTM D-448. ASTM C-33 AND AASHTO M-43 FOR QUALITY AND SOUNDNESS. CONTRACTOR SHALL PROVIDE SIEVE ANALYSIS ACCEPTABLE TO CEFCO CONSTRUCTION MANAGER. THE TANK WARRANTY IS AUTOMATICALLY VOIDED IF MATERIAL OTHER THAN THE FOLLOWING APPROVED BED AND BACKFILL MATERIALS ARE EMPLOYED WITHOUT PRIOR WRITTEN APPROVAL FROM THE TANK MANUFACTURER.
 - 7.2.1 PEA GRAVEL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER WITH NO MORE THAN 5% PASSING A NO. 8 SIEVE.
 - 7.2.2 CRUSHED STONE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER WITH NO MORE THAN 5% PASSING A NO. 8 SIEVE.
- 7.3 STANDARD INSTALLATION: PROCEDURE - DRY HOLE:
 - 7.3.1 PLACE MINIMUM 12" BEDDING MATERIAL SMOOTH AND LEVEL OVER EXCAVATION FLOOR. TANK TO BE SET LEVEL.
 - 7.3.2 SET TANKS LEVEL ON BEDDING MATERIAL. USE ALL LIFTING LUGS PROVIDED AND GUIDE ROPES AT EACH TANK END. DO NOT SET TANKS DIRECTLY ON DEADMEN OR CONCRETE SLAB IF USED. MEASURE TANK DIAMETER.
 - 7.3.3 PLACE 12" BACKFILL MATERIAL EVENLY AROUND TANKS. USE WOODEN DOWEL PROBE TO WORK BACKFILL COMPLETELY UNDER TANK BETWEEN RIBS AND UNDER ENDCAPS. USE EXTREME CARE IN BACKFILLING UNDER TANK BOTTOM, BETWEEN RIBS AND UNDER END CAPS TO PROVIDE A SOLID SUPPORT FREE OF VOIDS. IT IS EXTREMELY IMPORTANT THAT CARE BE EXERCISED IN THE BACKFILLING OF THE TANKS UP TO TWO FEET IN DEPTH FROM THE TANK BOTTOM AS TANK FAILURES HAVE RESULTED WHERE VOIDS WERE EVIDENT UNDER THE TANKS. GOOD COMPACTION AND SUPPORT FOR THE TANK CAN BE OBTAINED BY SHAPING THE GRAVEL WITH A SHOVEL ALL AROUND THE PERIMETER OF EACH TANK.
 - 7.3.4 REPEAT 7.3.3 FOR NEXT 12", PROBING TO FILL ALL VOIDS AT THE CRITICAL 5 TO 7 O'CLOCK SUPPORT AREAS OF THE TANK
 - 7.3.5 FREELY ADD ADDITIONAL BACKFILL TO TANK TOPS. (ADDITIONAL PROBING NOT REQUIRED.) MEASURE TANK DIAMETER.
- 7.4 INSTALLATION PROCEDURE - WET HOLE
 - 7.4.1 THE FOLLOWING PROCEDURE SHALL APPLY WHERE HIGH WATER TABLE IS EVIDENT OR WHERE A FUTURE WATER CONDITION IS ANTICIPATED.
 - 7.4.2 WATER LEVEL SHOULD BE MAINTAINED AT THE LOWEST PRACTICAL LEVEL DURING INSTALLATION. A PUMP AND PUMP OR A SYSTEM OF WELL POINTS AND PUMPS IS THE RECOMMENDED METHOD TO MINIMIZE WATER LEVEL IN THE HOLE. IT IS RECOMMENDED THAT AN EXPERIENCED DEWATERING CONTRACTOR BE EMPLOYED TO DEWATER THE EXCAVATION. THE TYPE OF SYSTEM REQUIRED WILL DEPEND ON THE WATER FLOW RATE INTO THE HOLE. THE HOLE BOTTOM SHOULD BE LEVEL AND FREE OF ROCKS AND DEBRIS.
 - 7.4.3 PROVIDE A MINIMUM 12" THICK PEA GRAVEL BED AT BOTTOM OF HOLE. PEA GRAVEL MUST BE GRADED SMOOTH, COMPACTED AND LEVEL TO RECEIVE TANKS. CAREFULLY PLACE TANKS ON PEA GRAVEL BED. TANK IS TO BE SET LEVEL.
- 7.4.4 BALLASTING:
 - 7.4.4.1 IF WATER IS REQUIRED TO SINK TANKS IN HIGH WATER TABLE CONDITION, THE MANUFACTURER'S TANK INSTALLATION INSTRUCTIONS MUST BE ADHERED TO EXACTLY.
 - 7.4.4.2 WATER WITHIN THE TANK CANNOT BE AT A HIGHER LEVEL THAN THE OUTSIDE GROUND WATER. IF WATER IS REQUIRED TO MAKE TANK INSTALLATION, THE CONTRACTOR WILL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR AND PAY FOR ALL WATER USED.
 - 7.4.4.3 BALLAST TANKS USING POTABLE WATER. REMOVE WATER ONLY AFTER TANK SLAB IS CURED. CONSULT CEFCO CONSTRUCTION MANAGER FOR PROPER DISPOSAL OF WATER REMOVED FROM TANK.
- 7.4.5 WHILE LEVELING TANKS, INSURE THAT A MINIMUM DISTANCE OF 2'-0" FOR 8' DIAMETER TANKS AND 3'-0" FOR 10' DIA. TANKS IS MAINTAINED BETWEEN TANKS. WHEN ANCHORING, PLACE STRAPS OVER TANKS AND FOLLOW PROCEDURE AS OUTLINED HEREINAFTER.
- 7.4.6 TANKS MUST BE ANCHORED WITH DEADMAN ON ALL WET HOLE INSTALLATIONS. ANCHORING SHALL BE DONE IN ACCORDANCE WITH THE TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 7.4.7 USE PERFORMED FIBERGLASS HOLD DOWN STRAPS FURNISHED BY TANK FABRICATOR ON TOP OF DESIGNATED RIBS. DO NOT USE STRAPS OR CABLES AGAINST THE TANK SHELL BETWEEN RIBS. ATTACH HOLD DOWN STRAP TO ANCHOR POINTS WITH 1/2" DIA. 6X19 FLOW STEEL WIRE ROPE LOOPS USING AT LEAST THREE CABLE CLAMPS. ALL STRAPS SHOULD BE TIGHTENED WITH TURNBUCKLES TO GIVE SNUG FIT OF STRAPS TO TANK RIB. TURNBUCKLE DIA. TO BE 1/2" HOOK TYPE OR 3/4" TYPE. ONE TANK AT A TIME SHALL BE SET ON PEA GRAVEL AND SECURELY ANCHORED AND TIGHTENED WITH THE ANCHORING STRAPS.

No.	Revision/Issue	Date
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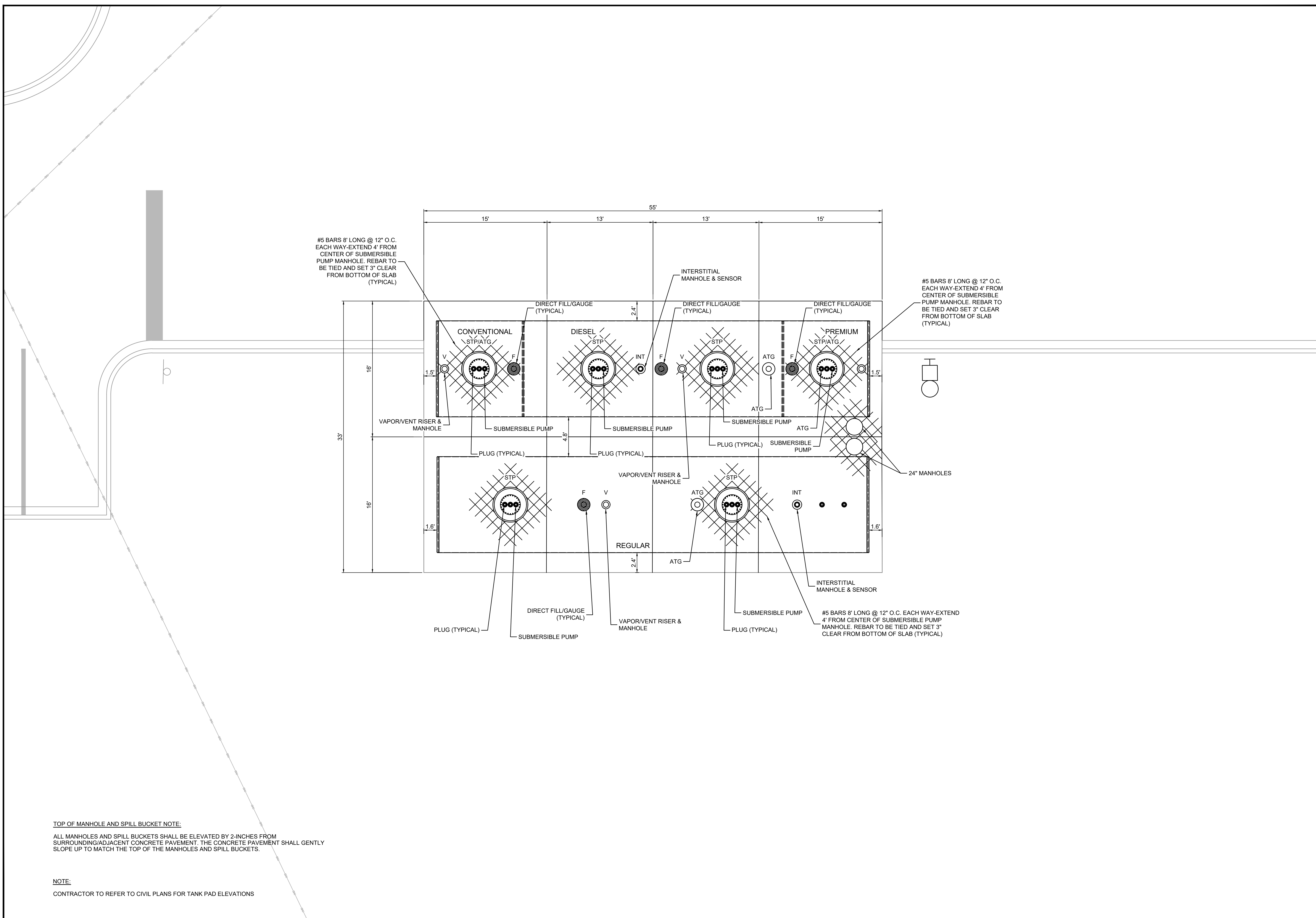
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC 1-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
LONGITUDINAL SECTION AND PIPING DETAIL

Project No.
170-95.00

Drawn By:
Checked By:

Sheet
T3.0



TOP OF MANHOLE AND SPILL BUCKET NOTE:
 ALL MANHOLES AND SPILL BUCKETS SHALL BE ELEVATED BY 2-INCHES FROM SURROUNDING/ADJACENT CONCRETE PAVEMENT. THE CONCRETE PAVEMENT SHALL GENTLY SLOPE UP TO MATCH THE TOP OF THE MANHOLES AND SPILL BUCKETS.

NOTE:
 CONTRACTOR TO REFER TO CIVIL PLANS FOR TANK PAD ELEVATIONS

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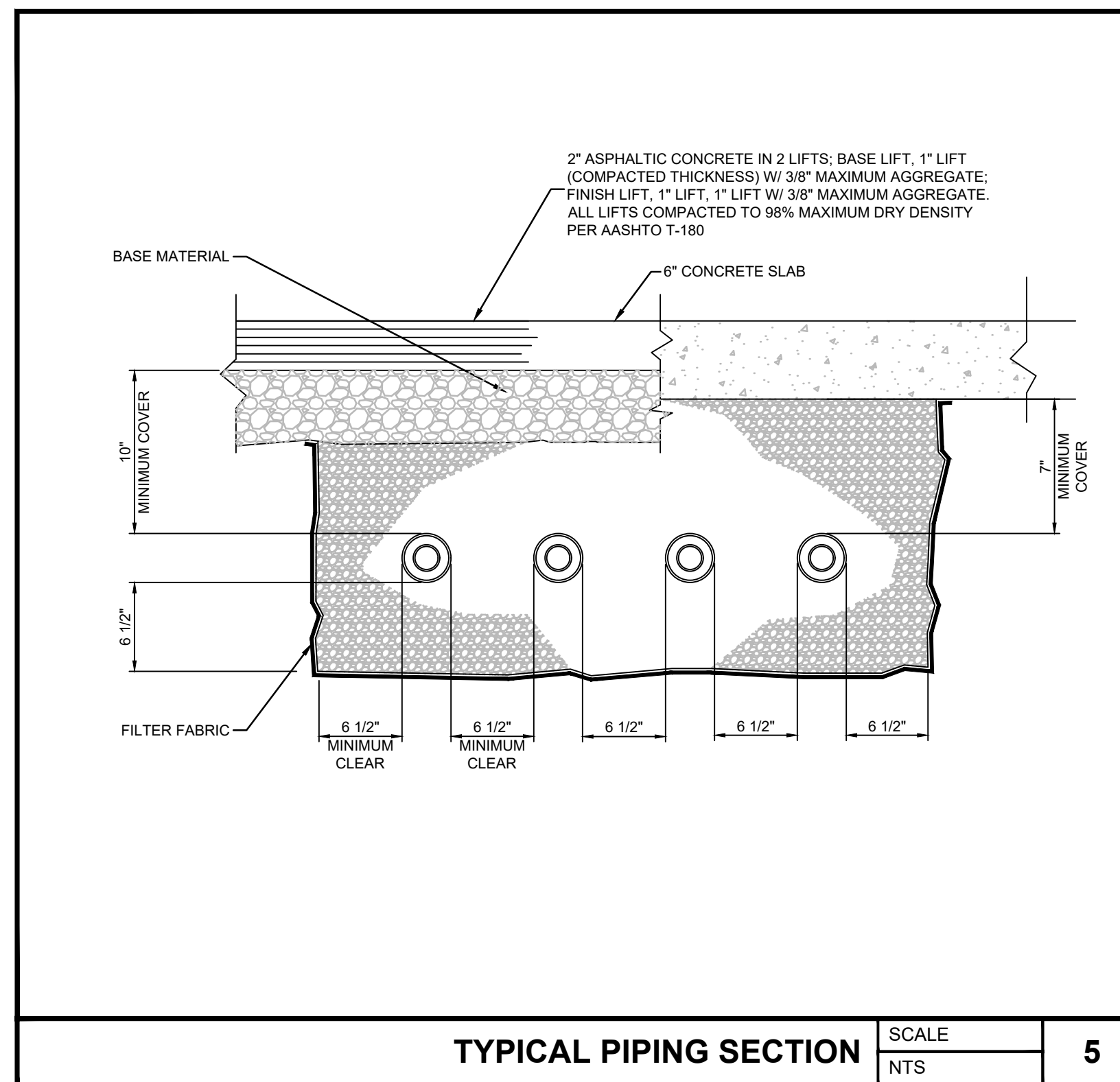
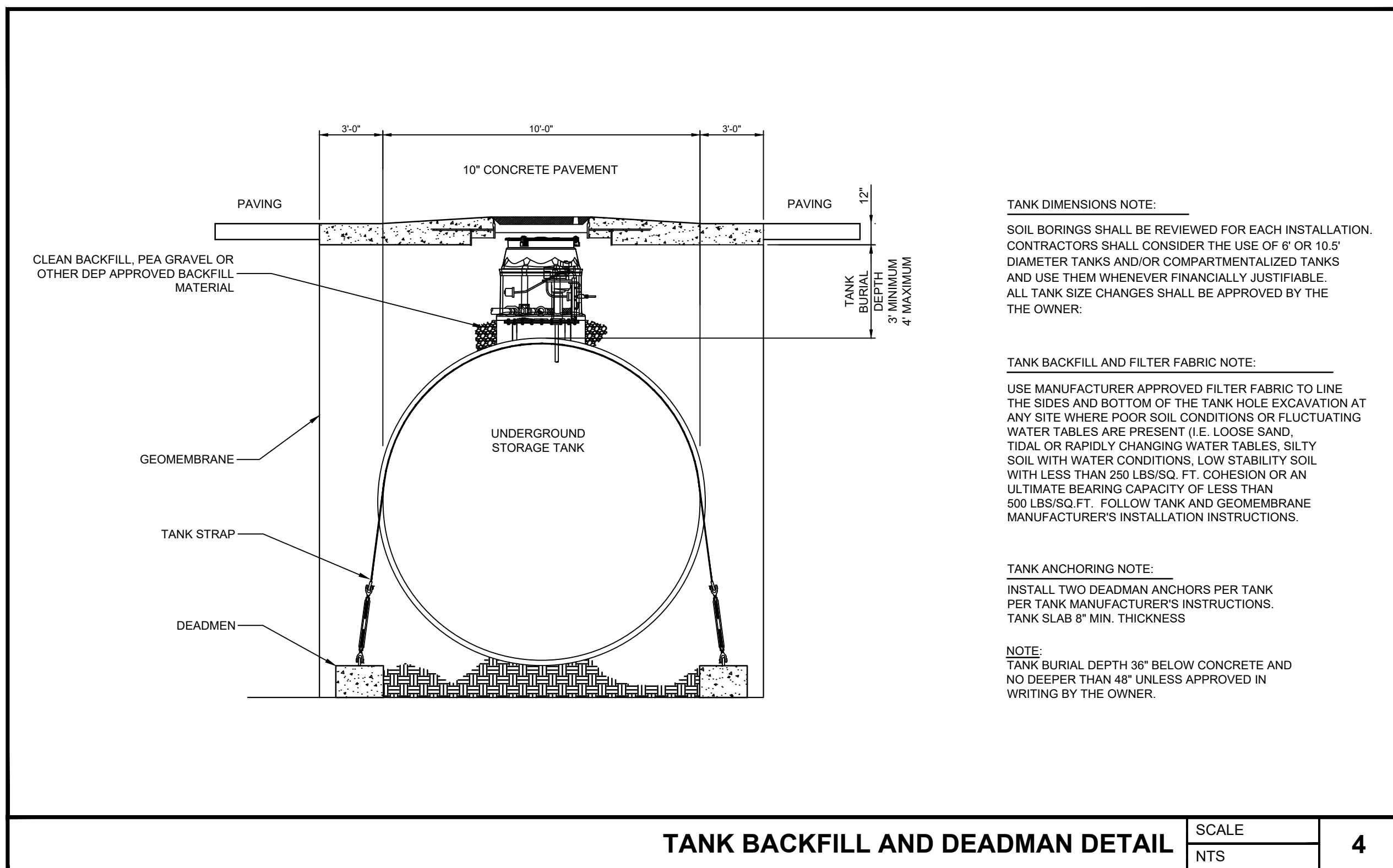
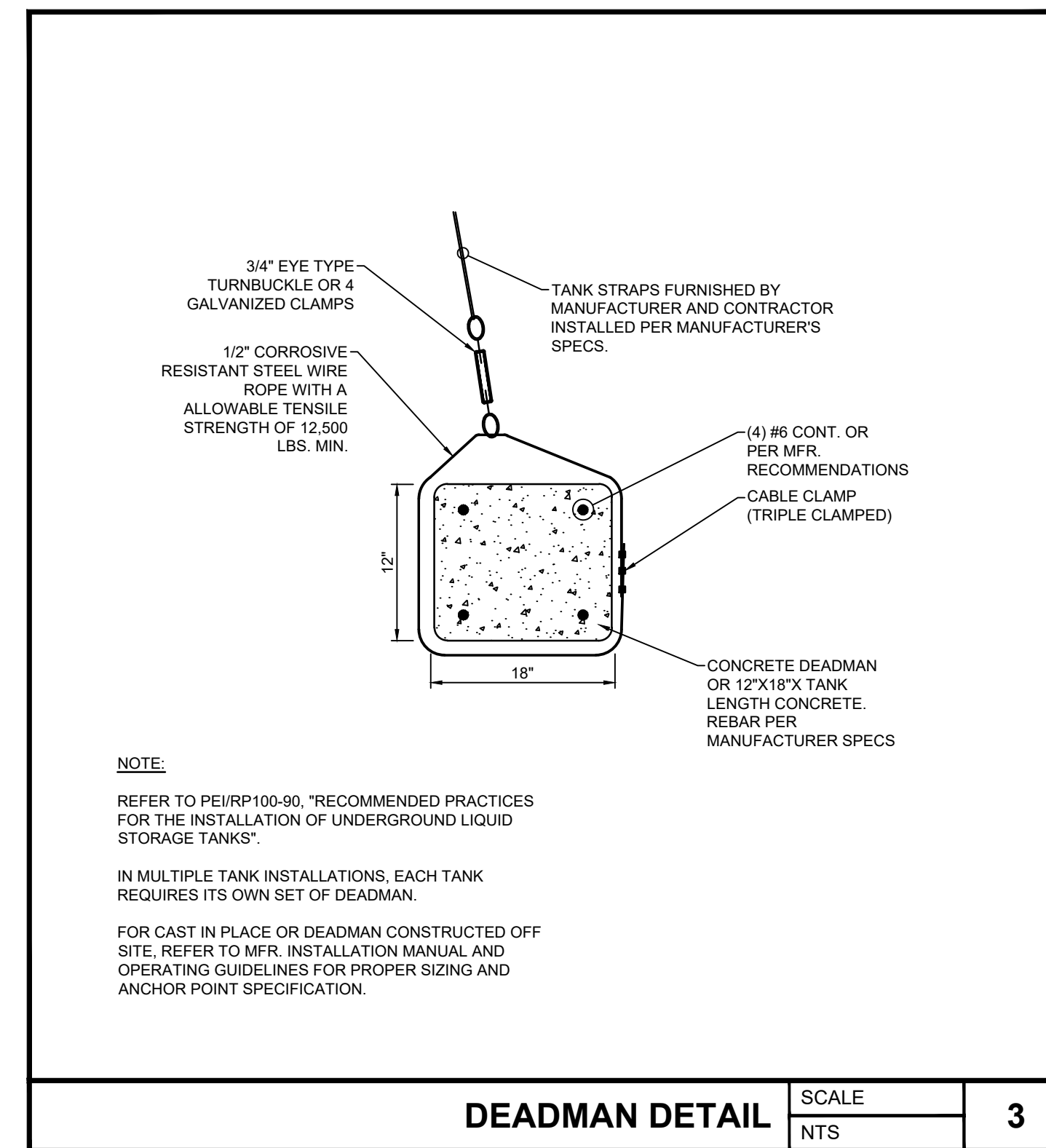
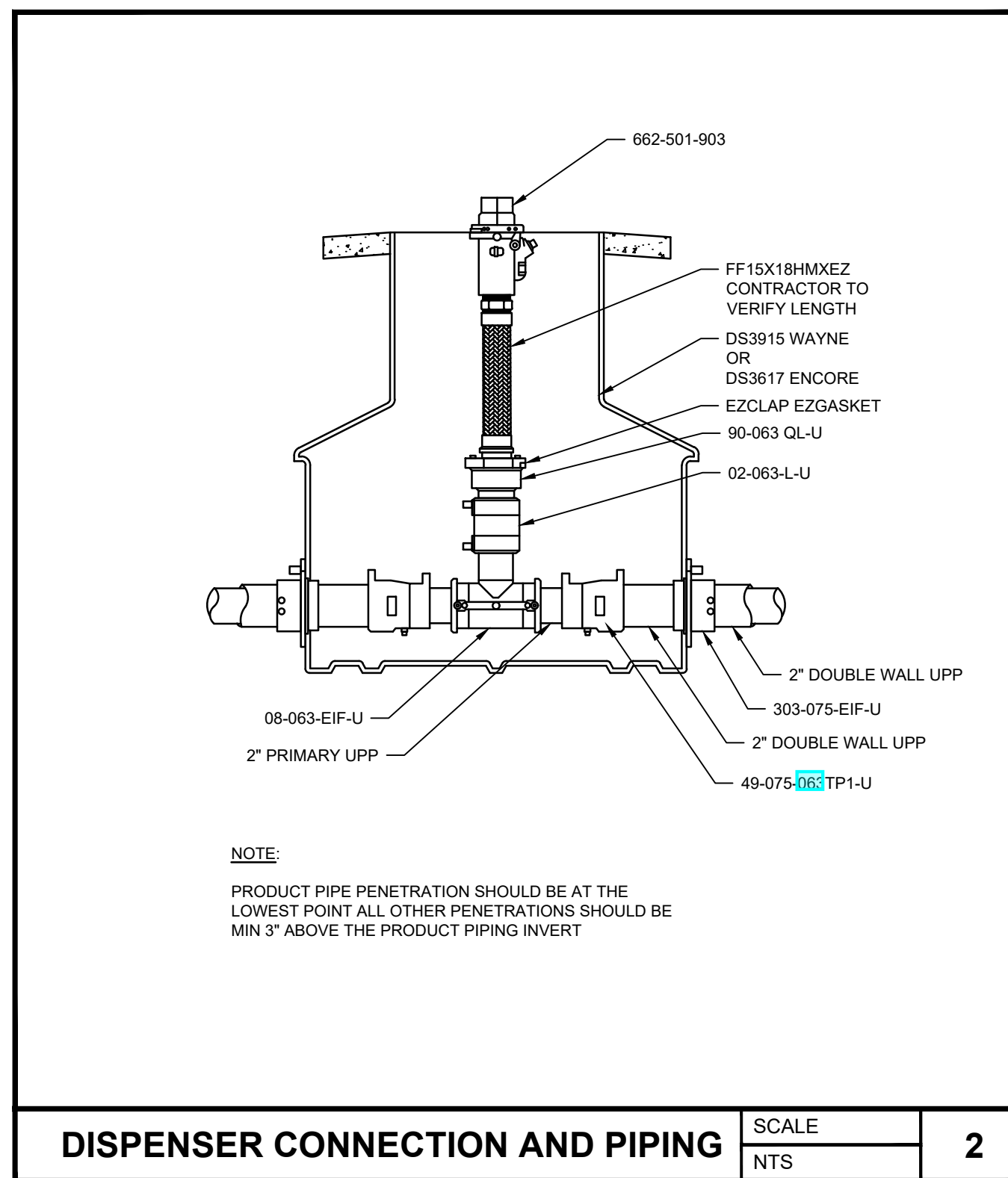
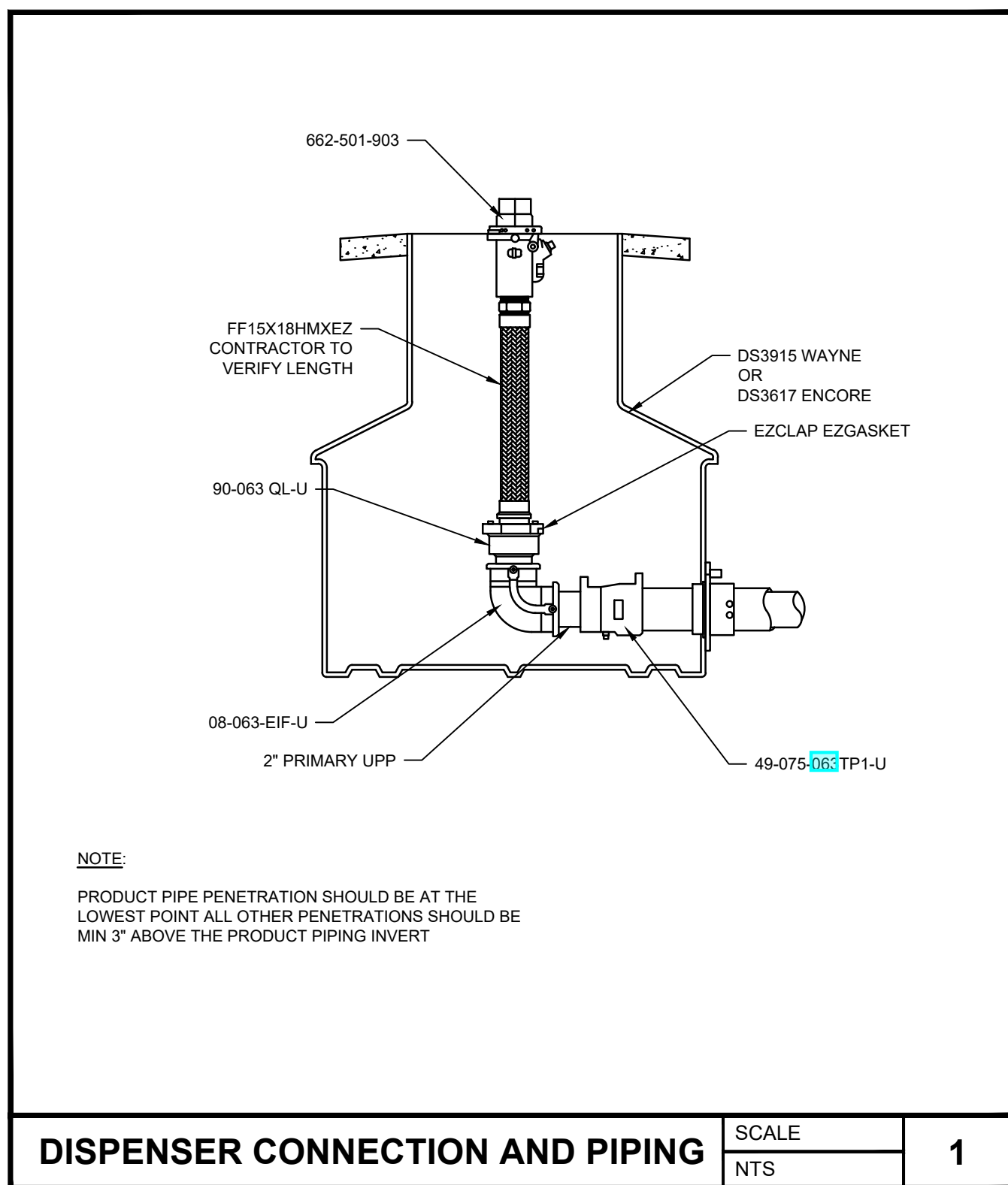
Sheet Title
TANK INSTALLATION PLAN AND EQUIPMENT PLAN

Project No.
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Drawn By: _____

Checked By: _____



DISPENSER SUMP FITTING INSTALLATION

GENERAL:

1. UPP BULKHEAD FITTINGS ARE ELECTRO-FUSED TO THE POLYETHYLENE SUMP WALL.
2. POLY OR FIBERGLASS SUMP UNITS ARE TO BE SEALED PER MANUFACTURER INSTALLATION INSTRUCTIONS. EACH SUMP SHALL BE FILLED WITH WATER FOR 24 HOURS BEFORE BACKFILL TO VERIFY WATER TIGHTNESS.

INSTALLATION

1. LAY OUT THE BULKHEAD FITTING LOCATIONS ACCORDING TO THE APPLICABLE PIPING DIAGRAM FOR THE SITE. IN ORDER THAT THE REQUIRED SCOPE BACK TO THE TANK CAN BE ACCOMMODATED. IT IS RECOMMENDED THAT THE CALCULATIONS BE MADE AFTER THE TANKS HAVE BEEN SET TO HEIGHT. THERE IS NO NEED TO ACCOUNT FOR SLOPE WITHIN THE SUMPS THEMSELVES.
2. MARK A CENTERLINE ON THE SUMP FACE SUCH THAT FITTING FLANGES ALL NO INTERFERE. POSITION THE BULKHEAD FITTING SO THAT ITS EDGE WILL BE AT LEAST ONE INCH FROM ANY SUMP EDGE. NOW MARK VERTICAL CENTERLINE INTERSECTION
3. USING APPROPRIATE DIAMETER HOLE, SAW CUT THE HOLE FOR THE BULKHEAD FITTING USING A SHARP KNIFE, TRIM ANY BURRS FROM THE RESULTING WORK PIECE.
4. USING TOOL SKA, DE-GLAZE SUMP IN CONTACT AREA OF FITTING PIPE. WIPE DE-GLAZED AREA USING CLOTH MOISTENED WITH ACETONE.
5. ROUGHEN CONTACT AREA OF BULKHEAD FITTING USING EMERY CLOTH, NOT STEEL WOOL OR SAND PAPER. WIPE PREPARED AREA WITH ACETONE CLOTH.
6. POSITION BULKHEAD FITTING AND CLAMP TO SUMP WALL USING TOOL 305.
7. AUTO FORECOURT ONLY, ALL UPP PIPING SHALL BE 33 FT STICKS THAT SHOULD BE USED BETWEEN DISPENSER POINTS. THESE WILL HAVE TO BE SHORTENED, AS NEEDED.

ENTRY BOOT WELD

1. WELD FITTING TO SUMP USING ELECTRO FUSION WELDER PER MANUFACTURERS INSTRUCTIONS. MARK TIME OF WELD COMPLETION ON A SUMP ABOVE WELDING LEADS. DO NOT REMOVE CLAMP UNTIL TWENTY MINUTES HAVE PASSED.

PIPE PREPARATION AND JOINT MAKING:

1. MEASURE SUMP-TO-SUMP CENTERLINE DISTANCE, ACCOUNTING FOR NECESSARY DETOURS AROUND INTERVENING OBJECTS, AND OTHER PIPES.
2. USING THE PIPES CUTTING TOOL, P. CUT. MAKE A BURR-FREE, AND SQUARE CUT ON THE PIPE.

PIPE CUTS:

3. IF USING COAXIAL PIPE, USE CUTTING TOOL TO PREPARE CONTAINMENT SLEEVE. CUT SLEEVE BACK END OF THE PRIMARY PIPE.
4. DE-GLAZE SECONDARY PIPE SKIN IN PREPARATION FOR WELDING.

PIPE SCRAPERS:

- AS AN ALTERNATE, A RAZOR EDGED SCRAPER, SCR. SKA CAN BE USED TO LONGITUDINALLY ROUGHEN THE SKIN OF THE PRIMARY PIPE, AND HOWEVER, CARE MUST BE TAKEN TO LEAVE NO UNSCRAPED AREAS.
5. WIPE THE MATING SURFACES USING AN ACETONE MOISTENED LINT FREE CLOTH.
 6. POSITION FITTINGS ON THE PIPE, INSERT PIPE THROUGH BULKHEAD FITTING, POSITION TEST FITTING.
 7. INSERT THE PREPARED PIPE END(S) IN TO THE FITTING TO THE SPECIFIED DEPTH. CLAMP PIPES TOGETHER USING UPP TOOL CLAMP(S) OR CLAMP (A) AS APPROPRIATED. IF COUPLING OCCURS IN CURVED RUN, LAY OUT JOINT STRAIGHT, WELD, ALLOW TO COOL, THEN BEND INTO POSITION. FAILURE TO PROPERLY MAINTAIN JOINT GEOMETRY FOR AT LEAST 20 MINUTES AFTER WELDING IS COMPLETE WILL RESULT IN AN UNSATISFACTORY JOINT.
 8. COMPLETE THE JOINT WELDING AS SPECIFIED BY UPP. USING CHINA MARKER, NOTE TIME OF COMPLETION NEXT TO WELD. DO NOT REMOVE CLAMPS BEFORE TWENTY (20) MINUTES HAVE PASSES BEYOND THIS ITEM.
 9. RECORD BATCH NUMBERS FROM PIPING MARKING INTO UPP INSTALLATION CHECKLIST.

SPECIFICATIONS

3.1 TANK HOLD-DOWNS (TIE-DOWNS):

- A. HOLD-DOWN, WHEN SPECIFIED THE HOLD-DOWN LOGS SHALL BE INSTALLED PRIOR TO THE BED MATERIAL.
- B. CAUTION - DO NOT PLACE FRP TANKS ON CONCRETE SLABS, TIMBERS, BEAMS, CRADLES OR GROUT THE TANKS IN WET CEMENT. THE TANK, WHETHER TIED DOWN OR NOT, MUST NEVER BE LEFT ON THE BED WITHOUT A BACKFILL TO THE TOP OF THE TANK IF THERE IS ANY CHANCE OF WATER, 12" OR MORE ABOVE THE TANK BOTTOM, IN THE HOLE.

3.2 TANK HOLD-DOWN INSTALLATION

- A. GENERAL REQUIREMENTS
ANCHOR ALL UNDERGROUND STORAGE TANKS WITH CONCRETE HOLD-DOWNS ("LOGS" OR "DEADMEN") WHEN SPECIFIED IN THE SCOPE OF WORK.
1. TANK BEDDING, BALLASTING AND TANK HOLE BACKFILL PROCEDURE ARE DESCRIBED IN THESE SPECIFICATIONS.
2. THE TANK ANCHORAGE SYSTEM SHOWN ON THE DRAWINGS IS DESIGNED FOR A MAXIMUM LEVEL OF GROUND WATER EQUAL TO THE SUBGRADE LEVEL.

3.3 MATERIALS

- A. CONCRETE HOLD-DOWNS: PRECAST, REINFORCED CONCRETE "LOGS", FURNISHED BY THE TANK MANUFACTURE WITH CHAMFERED EDGES. LENGTH, AS SHOWN ON THE DRAWINGS. 1/2" DIAMETER GALVANIZED STEEL ANCHOR LOOPS ARE TO BE CAST INTO "LOGS" AT LOCATIONS SHOWN. PRECAST MATERIAL SHALL HAVE ACHIEVED ITS ULTIMATE COMPRESSIVE STRENGTH OF 2500 PSI (28 DAYS) PRIOR TO INSTALLATION.
- NOTE: PRECAST CONCRETE FOUNDATION PILES WHICH MEET OR EXCEED ABOVE SPECIFICATIONS ARE ACCEPTABLE.
- B. WIRE ROPE CABLE: HOT-DIP GALVANIZED STEEL WIRE ROPE, MINIMUM 1/2" DIAMETER, BREAKING STRENGTH. 20AK.
- C. HARDWARE: CABLE CLAMPS, CABLE GUIDES, GUARDS, ETC., FURNISHED BY THE TANK MANUFACTURER, SHALL BE HOT-DIP GALVANIZED STEEL.
- D. PROTECTIVE COATING: PRIOR TO BACKFILLING TANKS, APPLY A GENEROUS QUANTITY OF "ASPHALT COATING" BY BRUSH TO ALL EXPOSED STEEL CABLES, LOOPS AND HARDWARE.

- A. PREPARE THE TANK HOLE TO RECEIVE THE HOLD-DOWN "LOGS". INSTALL SHORING (OR SIDE SLOPING) IN ACCORDANCE WITH SECTION 1.3.
- B. PUMP THE WATER OUT OF THE TANK HOLE. KEEP WATER OUT OF THE TANK HOLE UNTIL TANKS HAVE BEEN SET, TIED DOWN, BALLASTED AND BACKFILLED.
- C. INSERT EACH CABLE THROUGH ITS OWN ANCHOR LOOP IN THE "LOG" RESERVING SUFFICIENT CABLE SO THAT BOTH ENDS OF THE CABLE WILL BE AT THE TOP OF THE TANK. THE "LOGS" ARE SET. LOWER AND POSITION THE "LOGS" IN THE TANK HOLE KEEPING BOTH ENDS OF THE CABLES AT THE TOP OF THE HOLE. INSTALL THE 12" MINIMUM THICK BEDDING MATERIAL IN TANK HOLE. SMOOTH AND SLOPE PER THE TANK BEDDING INSTRUCTIONS.
- D. PROCEED WITH SETTING THE TANKS BY ADDING BALLAST AS NECESSARY TO SINK AND KEEP DOWN THE TANKS. USE ONLY ENOUGH BALLAST TO HOLD THE TANKS DOWN UNTIL THE BACKFILL IS EVEN WITH THE TOP OF THE TANKS. (REFER TO SECTION 1.1 FOR TANK SETTING REQUIREMENTS.) CAUTION: BALLAST LEVEL IN TANK MUST NEVER EXCEED WATER (OR BACKFILL) LEVEL IN TANK HOLE DURING INSTALLATION.
- E. INSTALL THE CABLE GUARDS, GUIDES, ETC., FURNISHED BY THE TANK MANUFACTURER ON THE DESIGNATED RIBS OF THE TANK. (NOTE: "DESIGNATED RIBS" ARE MARKED BY ARROWS ON THE TANK SURFACE.) CAUTION: DO NOT PLACE STRAPS OR CABLES BETWEEN THE RIBS OF THE TANK.
- F. PASS EACH SET OF CABLES (A SET OF CABLES ARE THOSE PASSING THROUGH THE MATCHING, OR OPPOSITE, LOOPS ON THE "LOGS") THROUGH THE GUIDES AND LOOPS AS SHOWN ON THE DRAWING.

1. ONE END OF EACH CABLE IS TO BE CROSSED OVER THE TOP OF THE TANK IN THE RETAINER PORTION OF THE HOLD-DOWN STRAP. USING THREE CABLE CLAMPS ON EACH SET OF CABLES, CLAMP BOTH CABLES TOGETHER ON TOP OF THE TANK. PRIOR TO TIGHTENING THE CLAMPS, TENSION THE CABLES WITH "COME-A-LONGS" SECURED OUTSIDE THE TANK HOLE. USE ENOUGH TENSION TO TIGHTEN THE CABLES BUT NOT TO LIFT THE "LOGS" OR CRUSH THE TANK. CAUTION: ALL SETS OF CABLES ON A TANK MUST BE TIGHTENED EQUALLY TO AVOID TANK DEFORMATION.
2. THE CABLE MUST REST ON THE TOP OF THE HOLD-DOWN STRAP BETWEEN THE GUIDES PROVIDED. REPEAT THIS PROCESS FOR EACH SET OF TIE-DOWN CABLES.
3. AFTER ALL TIE-DOWNS ARE COMPLETED, COMMENCE THE BACKFILL PROCEDURES TO THE TOP OF THE TANKS.

01/04/2024	Date
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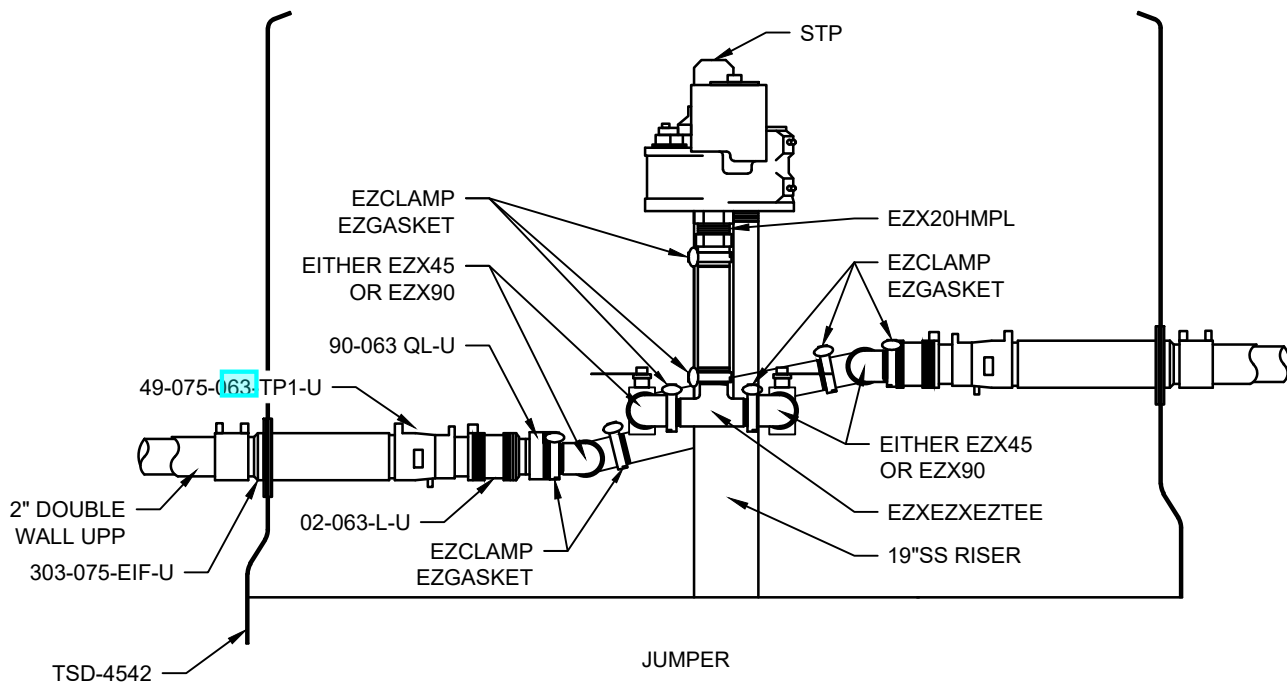
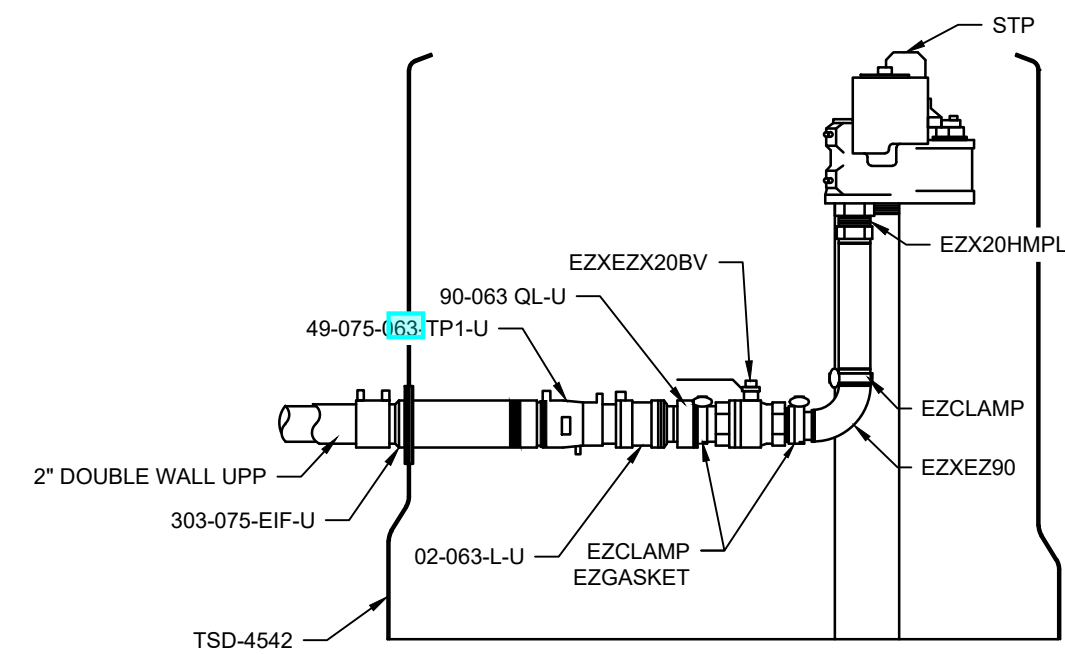
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
STANDARD TANK HOLD DOWN DETAILS AND PIPING DETAILS

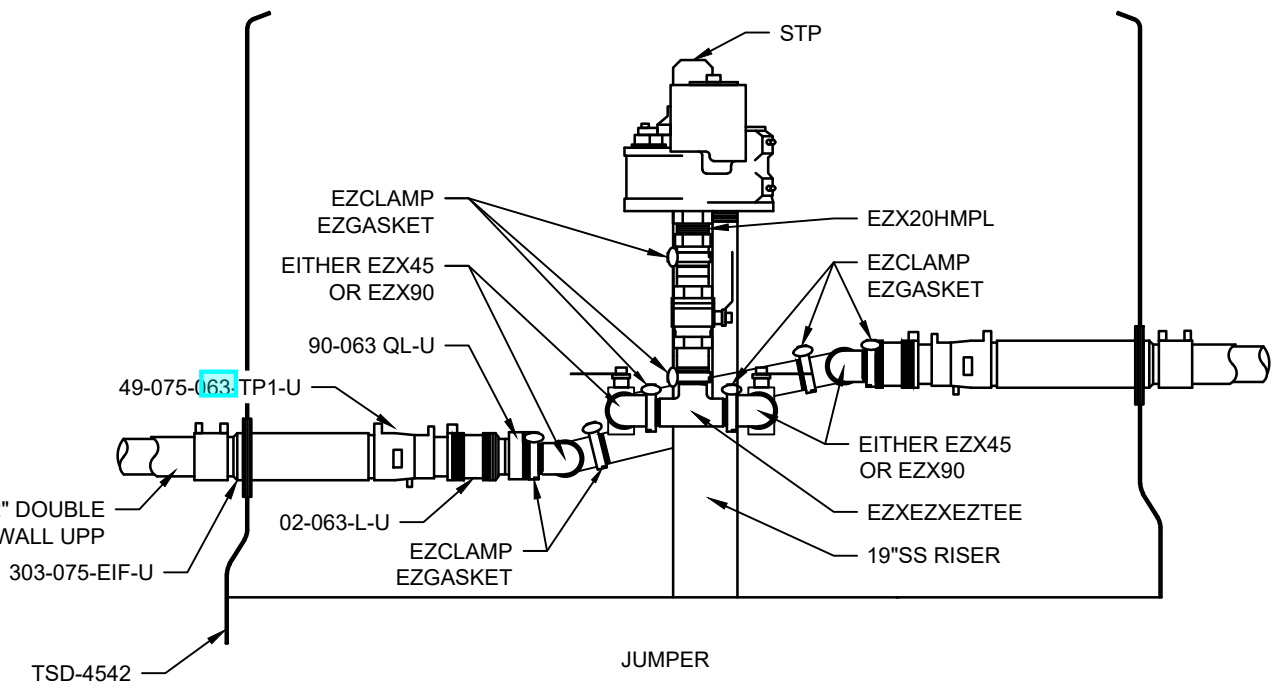
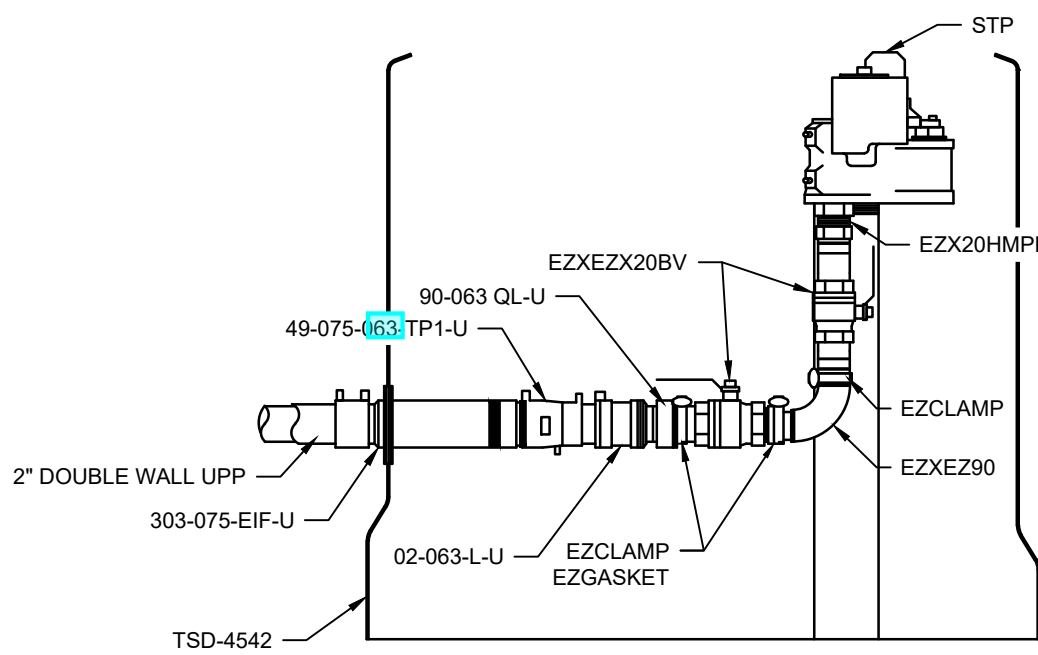
Project No.
170-95.00

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T6.0

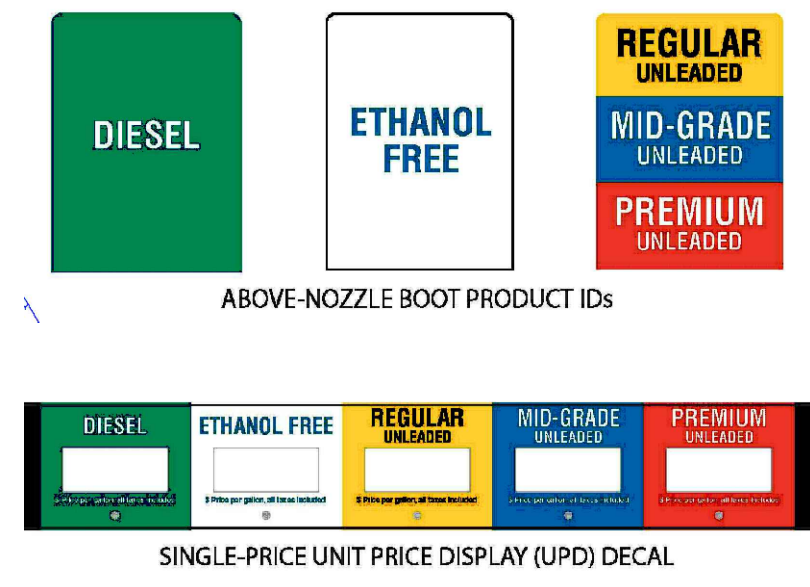
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SUBMERSIBLE PUMP PART NO. DETAIL SCALE NTS **1**

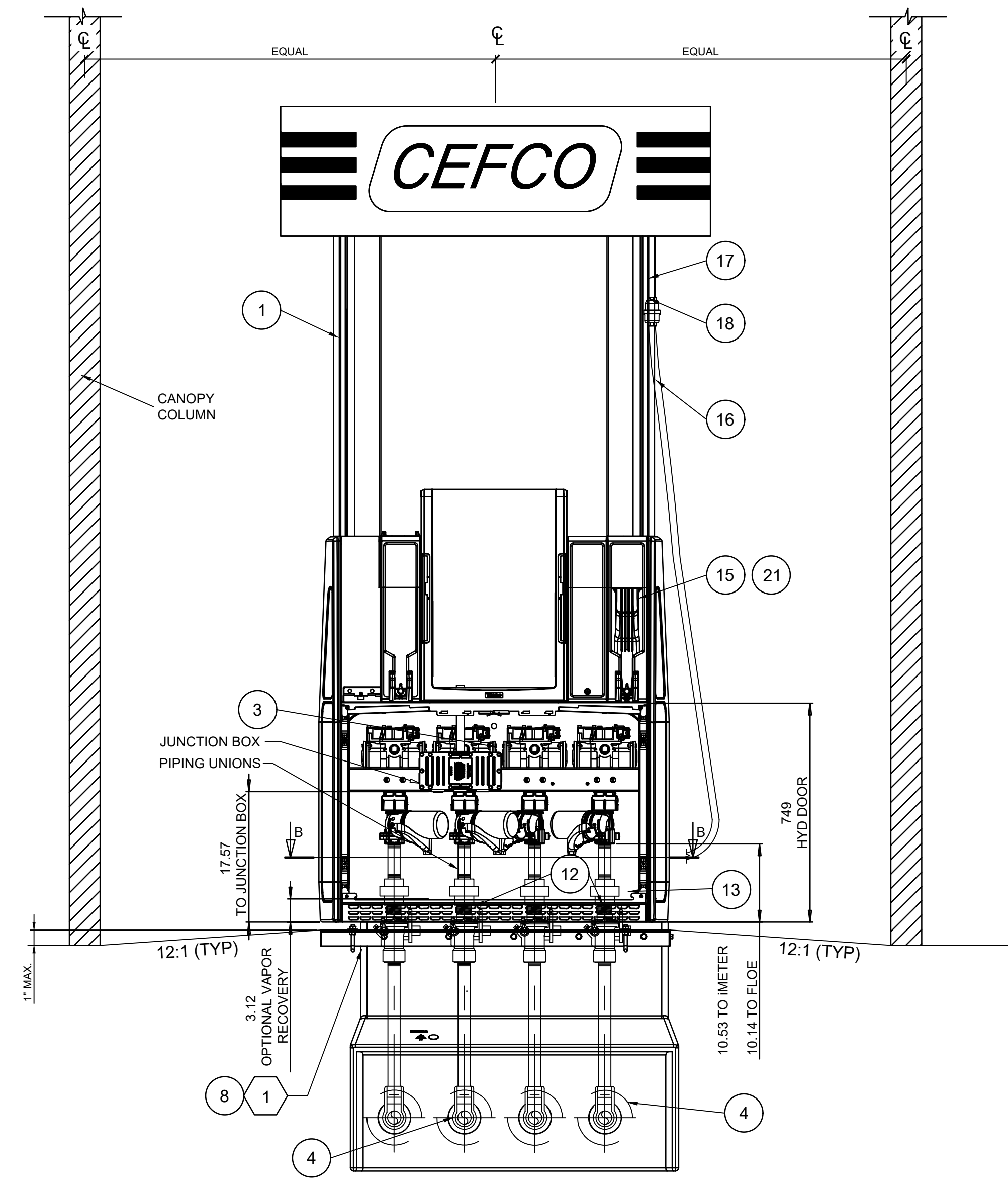
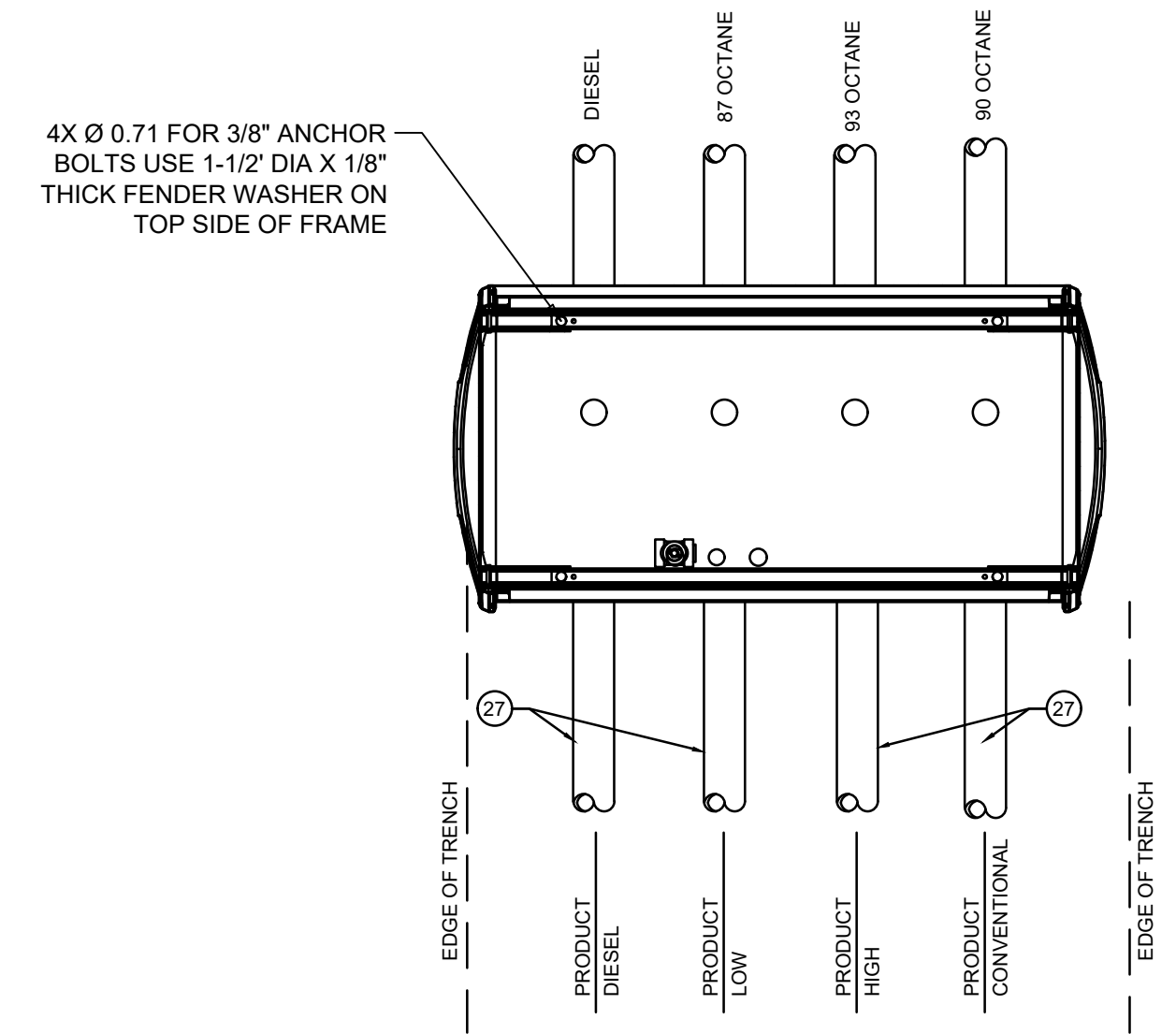


SUBMERSIBLE PUMP W/U-PIPE DETAIL SCALE NTS **2**



WAYNE HELIX DISPENSER SCALE NTS **3**

- NOTES: UNLESS OTHERWISE SPECIFIED
- ALL PIPING AND ELECTRICAL INSTALLATIONS MUST CONFORM TO ALL APPLICABLE REGULATIONS INCLUDING NFPA30, FLAMMABLE & COMBUSTIBLE LIQUIDS CODE; NFPA30A, AUTOMOTIVE & MARINE SERVICE STATION CODE; NFPA70, NATIONAL ELECTRICAL CODE. DO NOT "DAISY CHAIN" THE DISPENSER POWER CIRCUIT TO ANY OTHER EQUIPMENT.
 - PIPING FROM TANK TO DISPENSER SHOULD SLOPE UPWARDS TO AVOID AIR OR LIQUID TRAPS.
 - USE UNIVERSAL JOINTS AT DISPENSER TO ALLOW FOR GROUND MOVEMENT.
 - FIRMLY MOUNT THE DISPENSER TO THE ISLAND USING THE ANCHOR BOLT AT LOCATIONS SHOWN.
 - EMERGENCY SHUTOFF VALVES AND BREAKAWAY DEVICES ARE EXAMPLES OF REQUIREMENTS STATED IN THE NFPA30A AUTOMOTIVE & MARINE SERVICE STATION CODE. THESE, AS WELL AS ANY OTHER SAFETY DEVICES REQUIRED BY NFPA30 & 30A, MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS.
 - CONNECT OPTIONAL INTERCOM CIRCUIT TO A LISTED CLASS 2 POWERED INTERCOM ONLY WITH 18 GAUGE MINIMUM, AT LEAST 90 DEGREE C, 600 V GAS & OIL RESISTANT UL LISTED WIRE. WIRES BACK TO INTERCOM POWER MUST BE RUN IN SEPARATE DEDICATED LISTED METALLIC CONDUIT.
 - THE COUPLING SHOULD BE TIGHTENED WITH A TORQUE OF 120 Nm AND THE SPANNER SIZE FOR THIS IS 90 mm



SAFETY NOTE
WHEN DISPENSERS ARE INSTALLED AS SHOWN ON THIS DRAWING, THE REQUIREMENTS OF NFPA 30A 4-3.6 AND 4-3.7 REGARDING SHEAR SECTIONS ARE FULLY MET.

FOLLOW THE MANUFACTURER'S GUIDELINES FOR INSTALLING GOODYEAR FLEX STEEL VAPOR ASSIST HOSES. VAPOR ASSIST HOSE ASSEMBLIES TO BE 45 OR 50 FT. LBS. TORQUE TO ALLOW FOR PROPER SWIVELING.

EQUIPMENT DESCRIPTION	
NO.	EQUIPMENT
1	3 + 2 PRODUCT MPD
2	THREE PRODUCT MPD
3	VAPOR VAC (IF REQUIRED)
4	UPP BULKHEAD FITTINGS ARE ELECTRO-FUSED (PRODUCT PIPING)
5	"BLANK"
6	"BLANK"
7	1 1/2"x18" FM SWIVEL FLEX CONNECTOR (PRODUCT)
8	WAYNE HELIX SUMP BOX
9	"BLANK"
10	1" FLEXIBLE ENTRY BOOTS (POWER HOME RUN, DISPENSER DATA LOOPED)
11	1" FLEXIBLE ENTRY BOOTS (INTERCOM - LOOPED)
12	1-1/2" MALE, EMERGENCY VALVE W/ DOUBLE POPPET (COMBO BODY)
13	"BLANK"
14	3" THREADED 3" WC PRESSURE VACUUM VENT CAP
15	NOZZLE - BLACK
16	3/4"HOSES - 8'-6" FLEXSTEEL VAPOR ASSIST HOSE
17	WHIP HOSE - 1' FLEXSTEEL VAPOR ASSIST HOSE, WHIP HOSE - 1' (NON-STAGE II ALT.) (OR EQUIVALENT)
18	INVERTED BREAKAWAY, BREAKAWAY (NON-STAGE II ALT.) (OR EQUIVALENT)
19	WATER INDICATING PASTE (TO BE LEFT @ STORE)
20	3"x2" TERMINATING REDUCER @ DISPENSERS - NO TEST POST
21	SPLATTER SHIELD, BLACK
22	3 M INTERCOM / WIRED TO MPD SPEAKERS
23	JUNCTION BOX
24	SEAL OFF
25	BOLLARD
26	"BLANK"
27	2" DOUBLEWALL UPP ELECTRO PRODUCT PIPE
28	3"x3"x2" UPP ELECTRO TEE
29	SECONDARY CONTAINMENT FITTING
30	3" FRP 90° FITTING
31	COAXIAL FIBERGLASS PIPE

DISPENSER W/ FRANKLIN POLY SUMP SCALE NTS **4**

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DEFUNIAK SPRINGS, FL

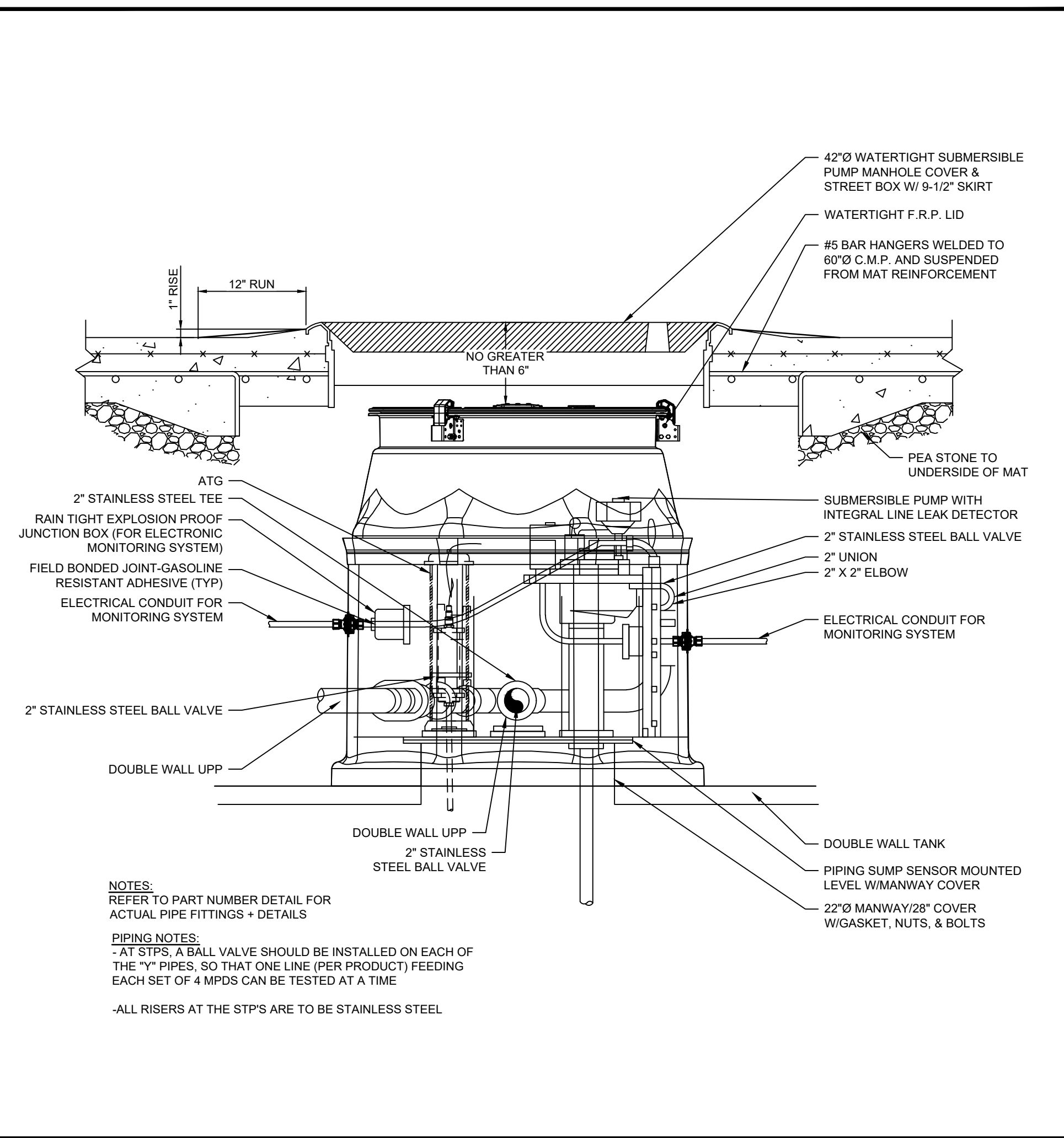
Sheet Title
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170-95.00

Scale
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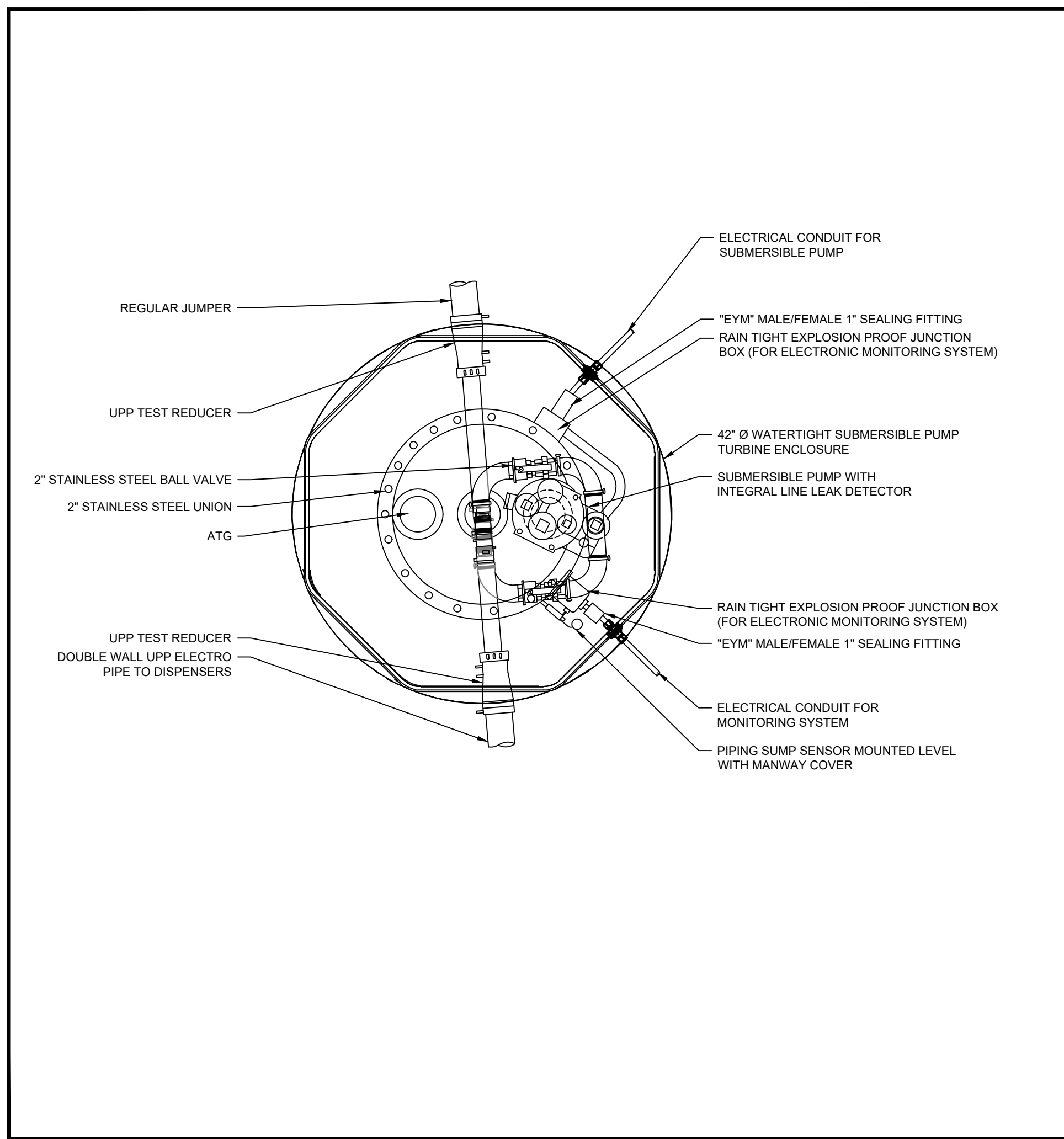
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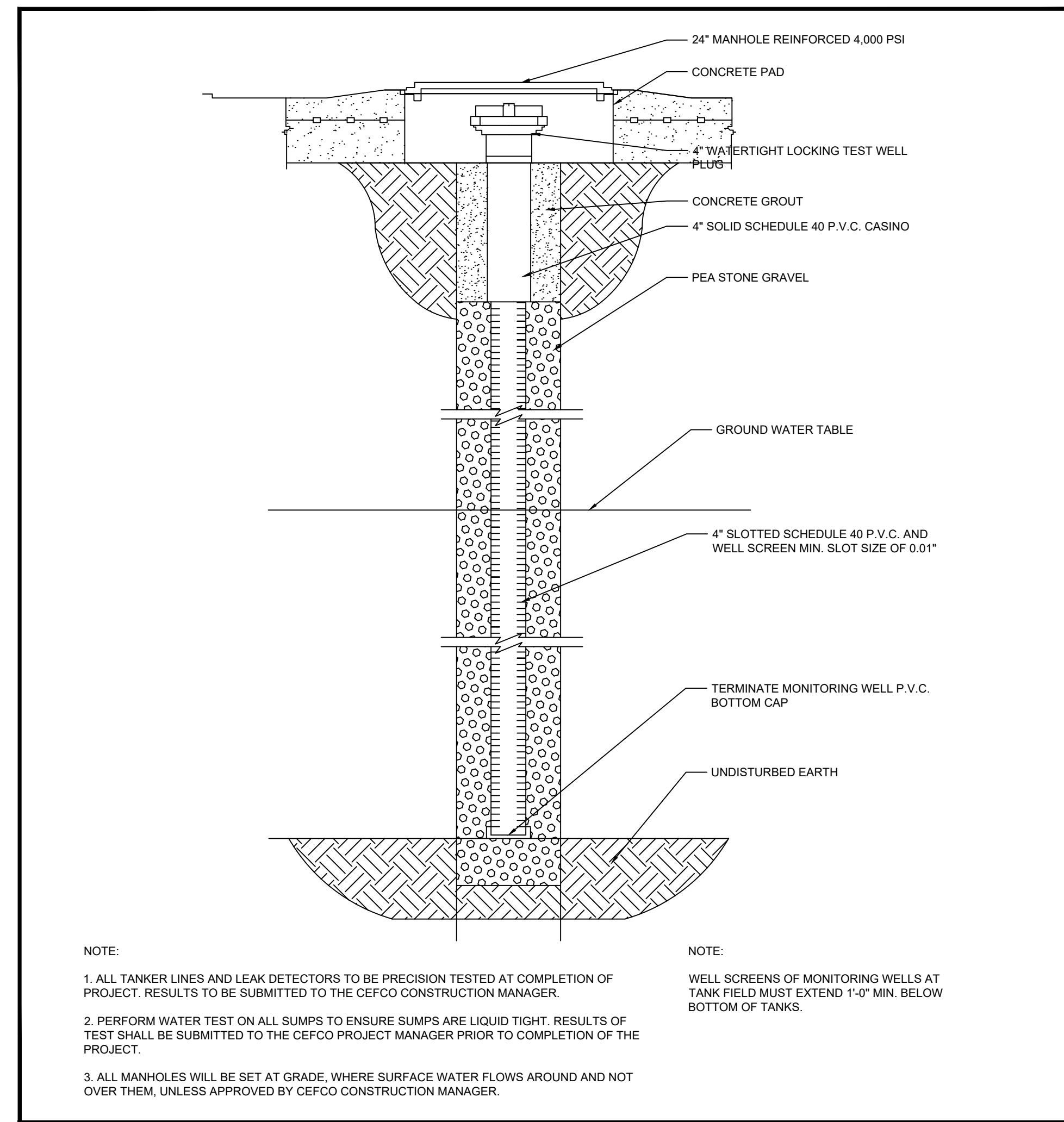
SUBMERSIBLE PUMP WITH ATG MANHOLE DETAIL

SCALE
NTS **1**



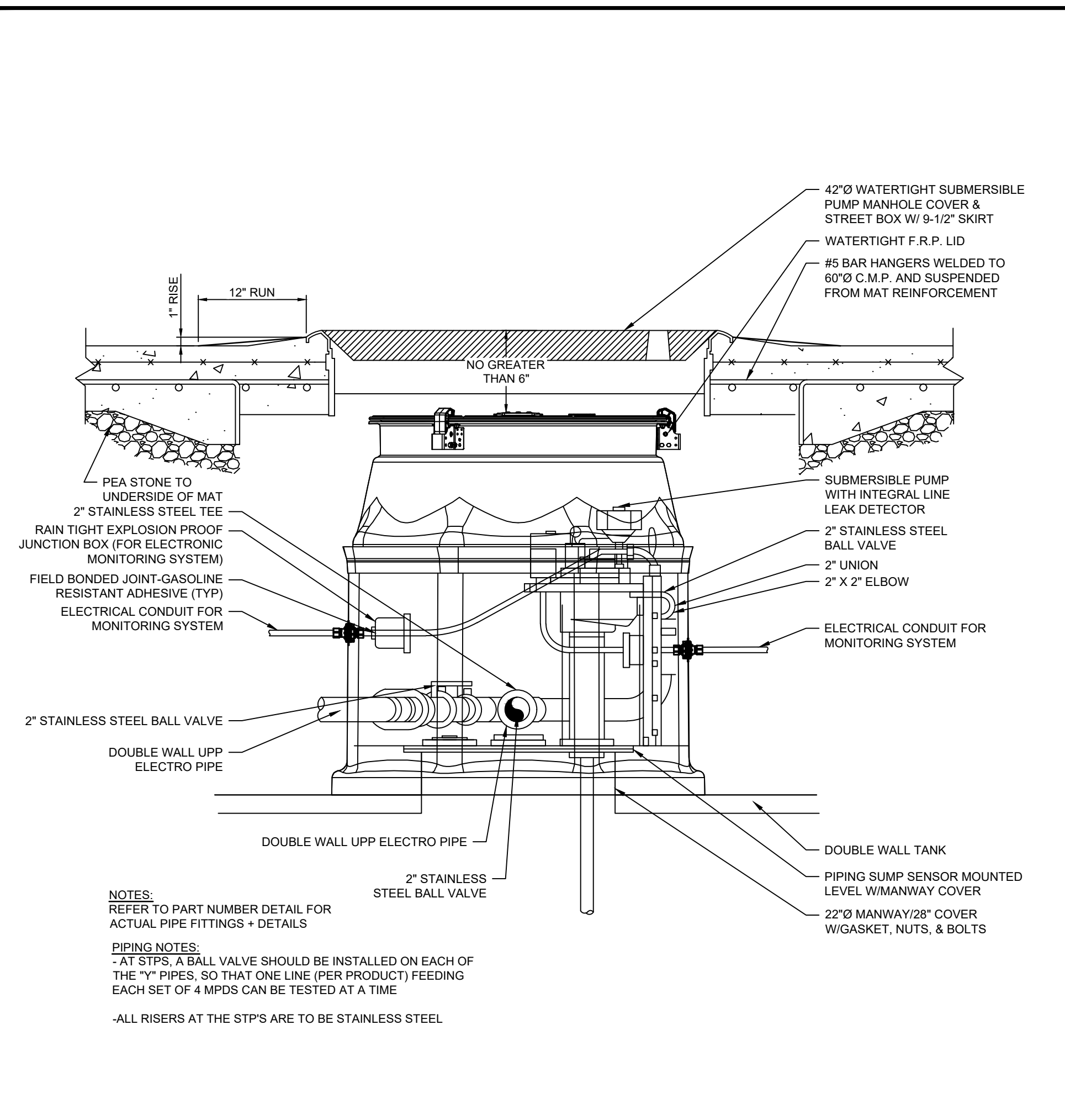
SUBMERSIBLE PUMP WITH ATG ENCLOSURE PLAN

SCALE
NTS **2**



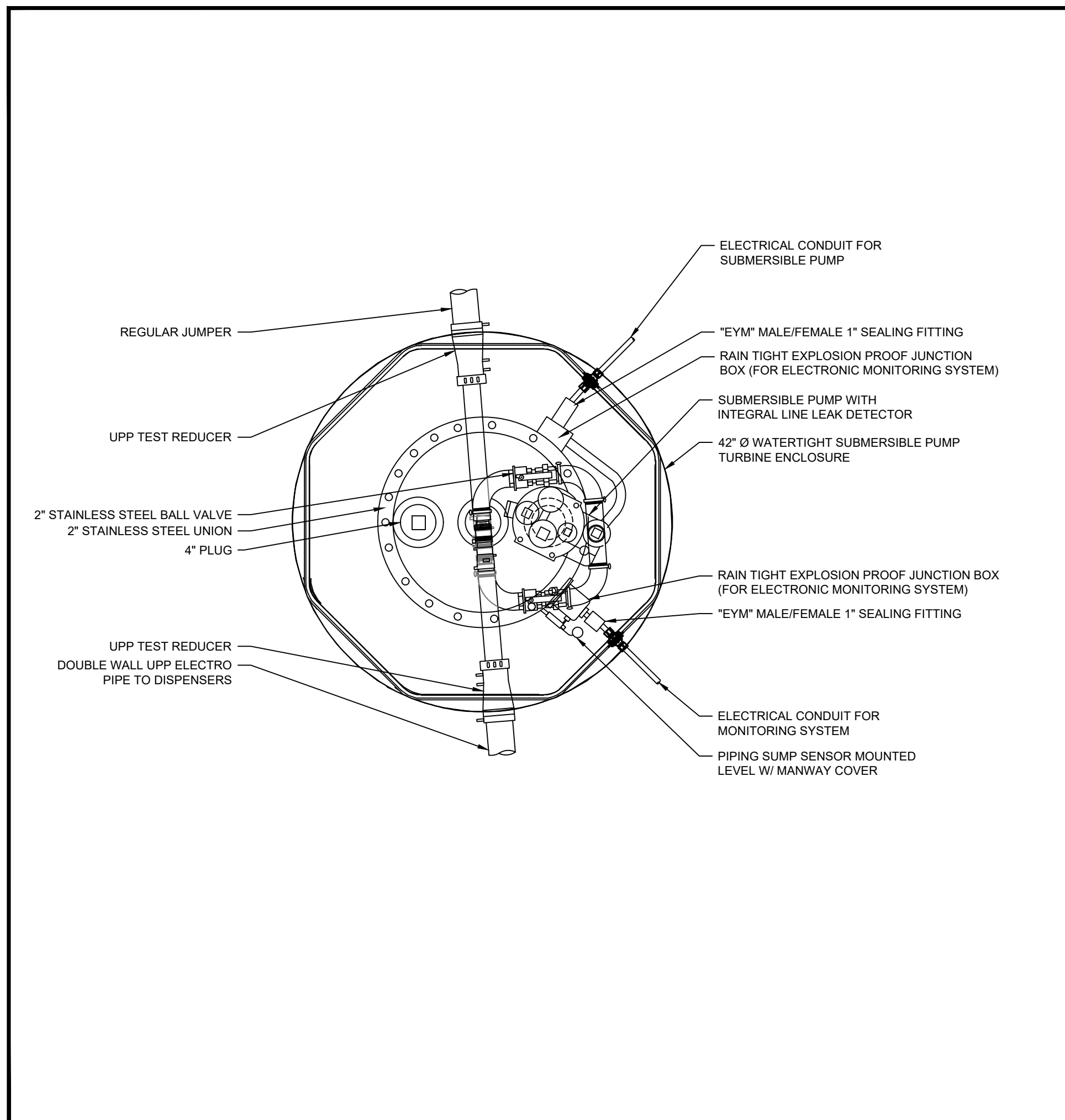
MONITORING WELL DETAIL

SCALE
NTS **3**



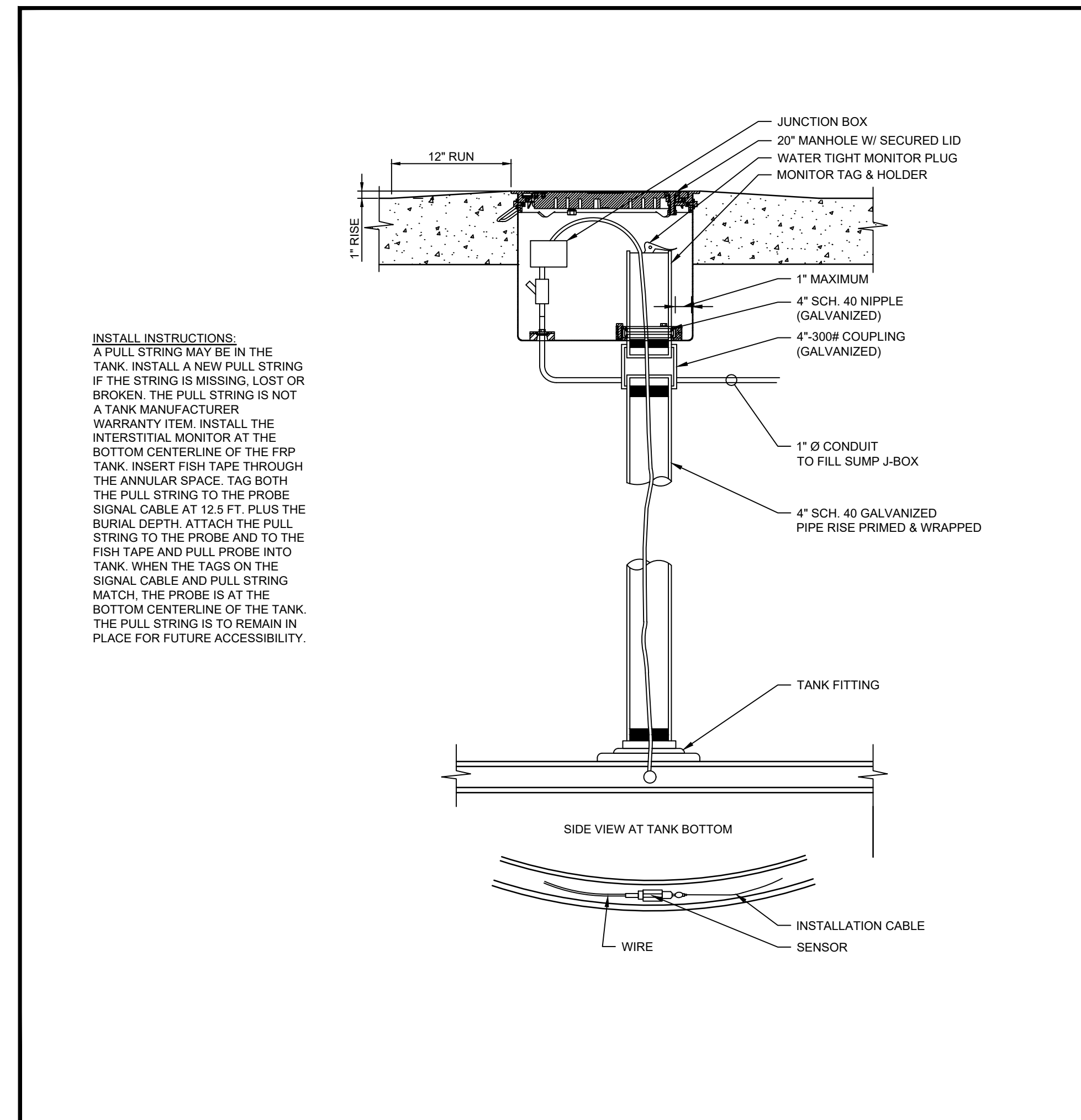
SUBMERSIBLE PUMP DETAIL

SCALE
NTS **4**



SUBMERSIBLE PUMP PLAN

SCALE
NTS **5**



INTERSTITIAL SPACE MONITORING

SCALE
NTS **6**

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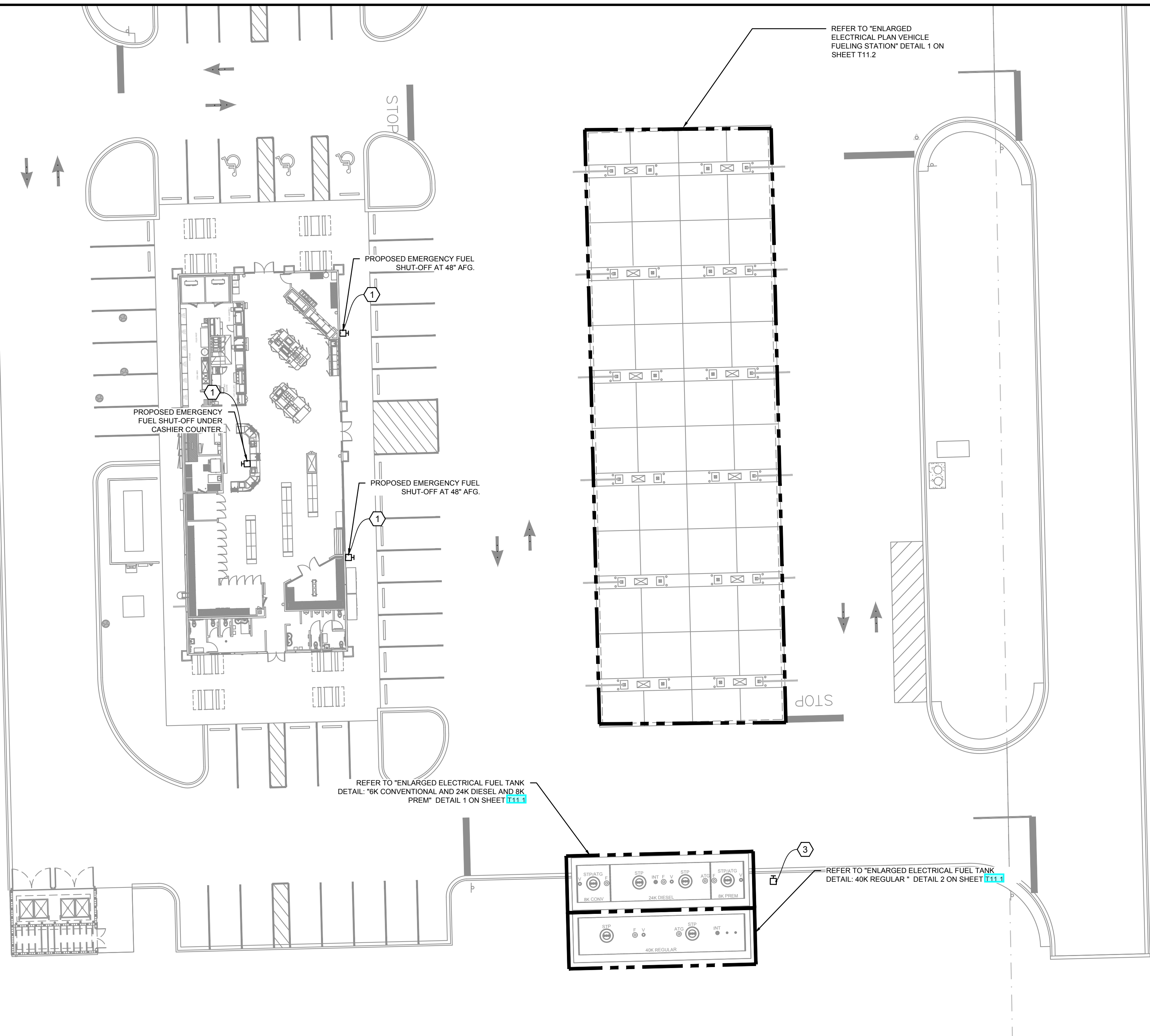
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CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

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Project No. 170-95.00
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S0° 10' 19" W 341.83' (F)



ELECTRICAL FUEL SITE PLAN SCALE 1" = 20' 1

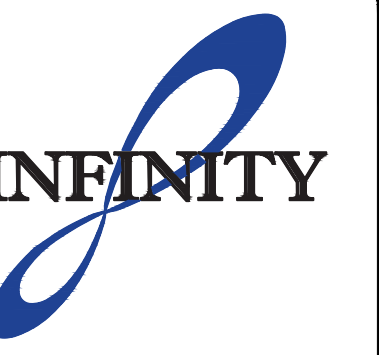
GENERAL NOTES:

- A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, CURRENT EDITION OF BUILDING CODE AND APPLICABLE LOCAL ORDINANCES.
- B. VERIFY ALL MECHANICAL EQUIPMENT SIZES PRIOR TO ROUGH-IN.
- C. COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
- D. ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA 30A.
- E. ALL INTRINSICALLY SAFE(IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSI/ISA RP 12.6. IN ADDITION, SPECIAL (IS) WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS). TROUGHS SHALL HAVE A PERMANENTLY ATTACHED METAL DIVIDER THAT IS EQUIPOTENTIALLY BONDED TO EARTH.
- F. FURNISH AND INSTALL POURED SEALING FITTINGS AT BOTH ENDS OF ALL CONDUITS FROM FUEL DISPENSERS AND UNDERGROUND FUEL STORAGE TANKS.
- G. REFERENCE MANUFACTURER INSTALLATION MANUALS FOR UNDERGROUND FUEL STORAGE TANK EQUIPMENT WIRING INTERCONNECTIONS.
- H. ALL POWER CONDUCTORS SHALL BE STRANDED WITH DUAL RATED THHN/THWN INSULATION.
- I. INTERMEDIATE METAL CONDUIT (IMT) SHALL NOT BE USED.
- J. HOMERUN CONDUITS TO DISPENSERS AND TANKS TO BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT AND SCHEDULE 40 PVC PER NEC ARTICLE 514.8, EXCEPTION #2.
- K. ALL CONDUIT ROUTED BETWEEN TANK SUMPS SHALL BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT.
- L. PENETRATE SUBMERSIBLE TURBINE PUMP (STP) WITH ONLY (1) VEEDER-ROOT CONDUIT.
- M. PROVIDE 'EYS' SEALING FITTINGS WHERE CONDUITS ENTER OR LEAVE ANY HAZARDOUS CLASSIFIED AREA.
- N. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER AND INTRINSICALLY SAFE CONDUITS.
- O. REFER TO BUILDING ELECTRICAL DRAWINGS FOR PANEL SCHEDULES.
- P. THE TERM PROVIDE MEANS THAT THE CONTRACTOR WILL 'FURNISH' AND 'INSTALL' ITEM.

KEYED NOTES:

- ① C-STORE EFSSO PUSHBUTTON STATION: PROVIDE SIGNAGE AND PUSHBUTTON PER DETAIL 3 ON SHEET T10.0.
- ② CASHIER EFSSO PUSHBUTTON STATION: PROVIDE SIGNAGE AND PUSHBUTTONS FOR EMERGENCY OFF AND RESET.
- ③ REMOTE EFSSO PUSHBUTTON STATION: PROVIDE SIGNAGE AND PUSHBUTTON PER DETAIL 5 ON SHEET T10.0.

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1	ISSUE FOR PERMIT	03/31/2023



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Date

STANDARD CEFCO FUEL WIRE SIZES

Dispenser Type/Description	Size Of Conduit	Function Of The Wire	QTY Of Wire In Conduit	Size Of Wire	QTY Of Wire In Conduit	Size Of Wire	QTY Of Wire In Conduit	Size Of Wire
3/4 Wayne Helix	1/4 Inch	Power	3	# 12	2	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare	2	Raceway Only				
Master Dispenser	1/4 Inch	Power	3	# 12	2	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare	2	Raceway Only				
Satellite	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
	3/4 Inch	Spare	2	Raceway Only				
Master/Satellite Loop		Power	1	# 12 Ground	2	# 14		
Auto Gas Canopy	1/4 Inch	Power	1	# 12				
	1/4 Inch	Spare	1	Raceway Only				
Truck Canopy	1/4 Inch	Power	1	# 12				
	1/4 Inch	Spare	1	Raceway Only				
STP	1/4 Inch	Power	4	# 10				
Tank Sensor Home Run	1/4 Inch	Sensor	EACH SUMP	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" to each stp Sump for sen's wt. 1 spare	
ATG & Interstitial Loops	1/4 Inch	Sensor	Per Sensor	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" Home Run for ATG & Int. Loops	
	3/4 Inch	Sensor	Per Sensor	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" Home Run for ATG & Int. Loops	
Remote E Stop	3/4 Inch		3	# 12				

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
FUEL SYSTEM ELECTRIC SITE PLAN

Project No.
170-95.00

Sheet
T10.0

Drawn By:

Checked By:

KEYED NOTES:

- 1 EXPLOSION PROOF JUNCTION BOX: CROUSE-HINDS GUA SERIES OR EQUAL.
- 2 FUEL FILL GROUND FOR UST; REFER TO DETAIL 4 ON SHEET T10.0
- 3 SUBMERSIBLE TURBINE PUMP(STP) POWER: 3-#10 & 1-#10 GND, 1" C. STP POWER. ROUTE TO PUMP CONTROL PANEL. PROVIDE HOME RUN FROM CONTROL PANEL TO PANEL 'G'.
- 4 SENSOR CONDUIT AND CONDUCTORS: PROVIDE (1) 3/C #18 SHIELDED(AUTOMATIC TANK GAUGE) AND (1) 3/C #18 SHIELDED(SPARE) IN 1" CONDUIT.
- 5 SENSOR CONDUIT AND CONDUCTORS: PROVIDE (1) 3/C #18 SHIELDED(AUTOMATIC TANK GAUGE), (1) 2/C SHIELDED(PUMP SUMP LEAK DETECTOR) AND (1) 3/C #18 SHIELDED(SPARE) IN 1" CONDUIT.
- 6 SENSOR CONDUIT AND CONDUCTORS: PROVIDE (1) 2/C #18 SHIELDED(PUMP SUMP LEAK DETECTOR) IN 1" CONDUIT.
- 7 SENSOR CONDUIT AND CONDUCTORS: PROVIDE (1) 2/C #18 SHIELDED(INTERSTITIAL SENSOR) AND (1) 3/C #18 SHIELDED(SPARE) IN 1" CONDUIT.
- 8 24" STEEL HANDHOLE: COLLECT CONDUITS FROM SENSORS AND PROBES IN HANDHOLE FOR ROUTING IN ONE CONDUIT TO FUEL MONITORING PANEL. PROVIDE CLASS 1, DIV. 1 WIRING INCLUDE CONDUIT SEAL-OFF FITTINGS AND EXPLOSION PROOF JUNCTION BOX IN HANDHOLE. PROVIDE RIGID GALVANIZED STEEL CONDUIT IN HANDHOLE AND MIN 24" OUTSIDE OF HANDHOLE.
- 9 FRANKLIN FUELING 'CABLE TIGHT' WIRE MANAGEMENT SYSTEM. THESE (2) CONDUITS SHALL UTILIZE THE CABLE TIGHT SYSTEM FOR THE FIRST 12'-0". TRANSITION TO SCHEDULE 40 PVC FOR THESE CONDUIT RUNS BEYOND THE 12'-0" DISTANCE.
- 10 FUEL MONITORING PANEL: ROUTE CONDUIT AND CONDUCTORS TO FUEL MONITORING PANEL PORTION OF THE CPI UNITIZED GEAR.
- 11 SENSOR CONDUIT AND CONDUCTORS: PROVIDE (1) 3/C #18 SHIELDED(AUTOMATIC TANK GAUGE), (1) 2/C SHIELDED(INTERSTITIAL SENSOR) AND (2) 3/C #18 SHIELDED(SPARE) IN 1" CONDUIT.
- 12 SENSOR CONDUIT AND CONDUCTORS: PROVIDE (2) 3/C #18 SHIELDED(AUTOMATIC TANK GAUGE), (1) 2/C SHIELDED(INTERSTITIAL SENSOR) AND (2) 3/C #18 SHIELDED(SPARE) IN 1" CONDUIT.

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- B. VERIFY ALL MECHANICAL EQUIPMENT SIZES PRIOR TO ROUGH-IN.
- C. COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
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- E. ALL INTRINSICALLY SAFE(IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSISA RP 12.6. IN ADDITION, SPECIAL (S) WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS). TROUGHS SHALL HAVE A PERMANENTLY ATTACHED METAL DIVIDER THAT IS EQUIPOTENTIALLY BONDED TO EARTH.
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CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
ENLARGED ELECTRICAL TANK PLANS

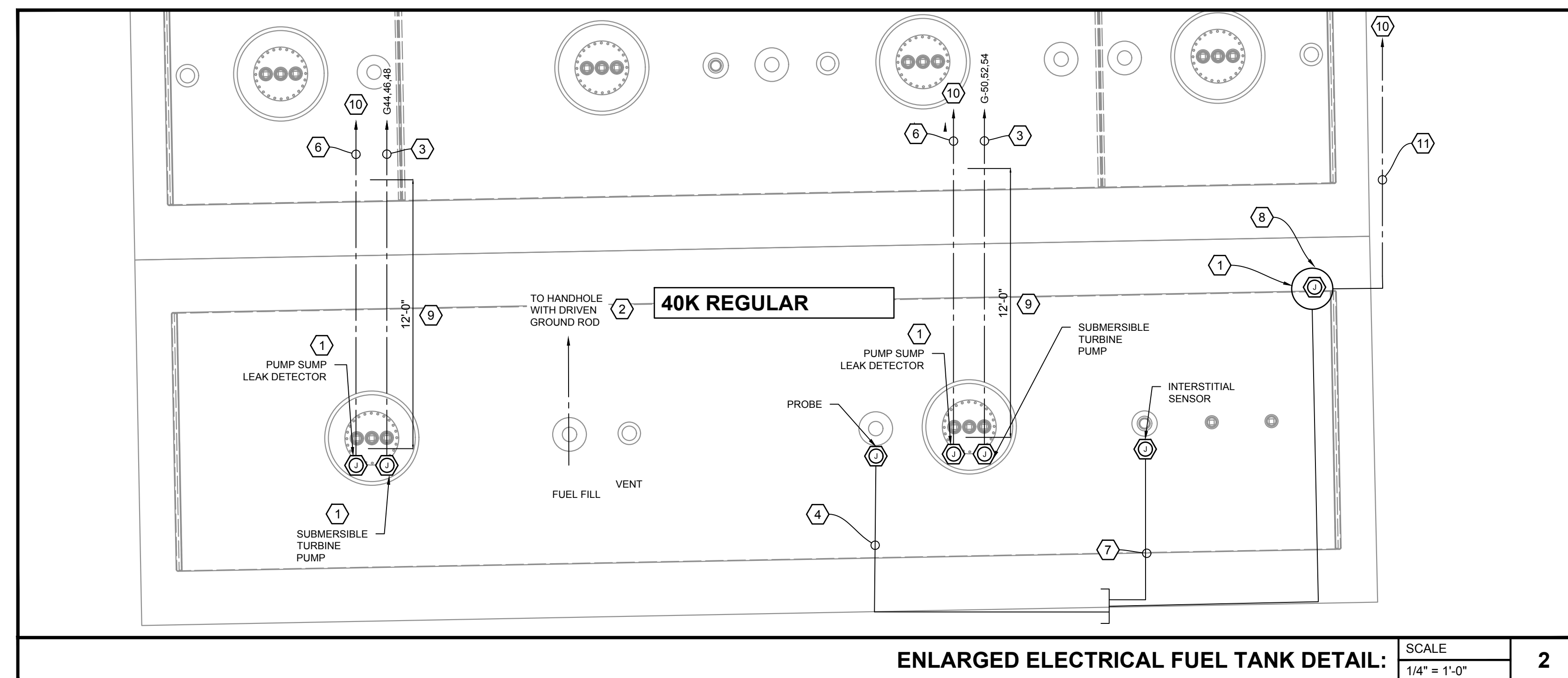
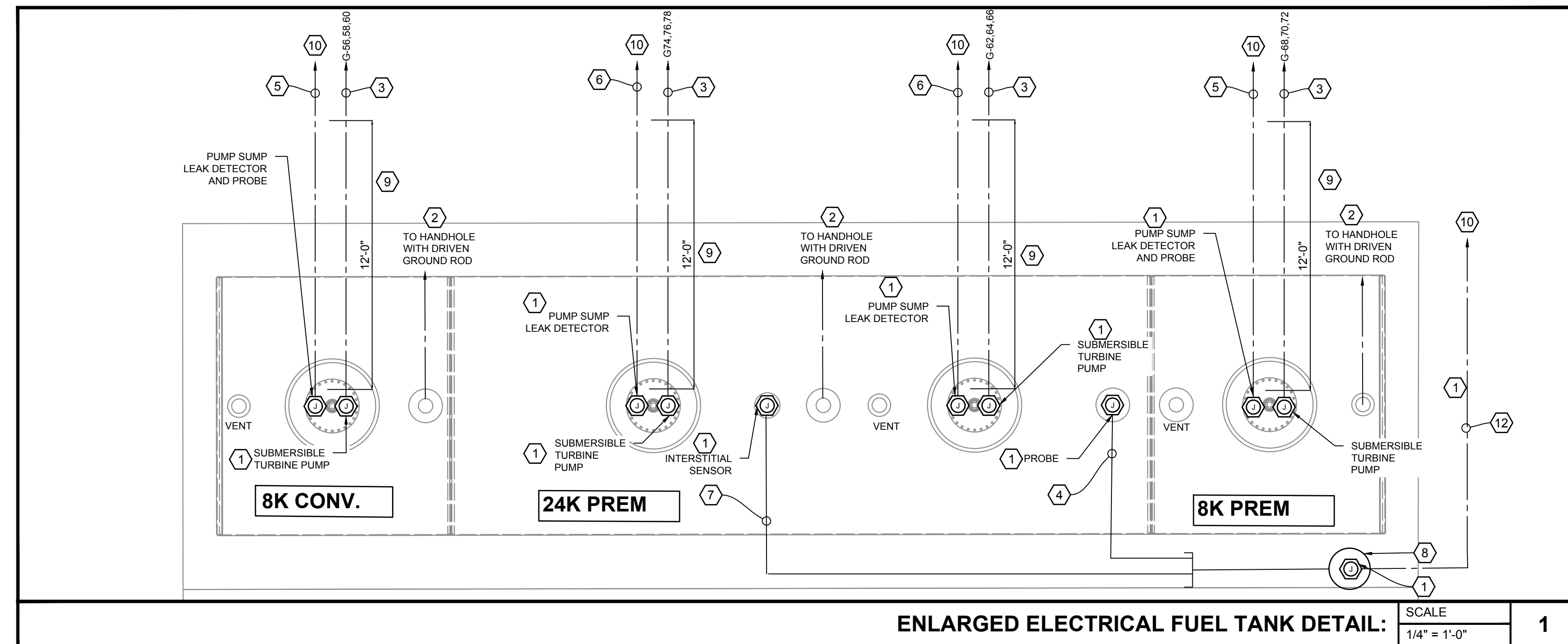
Project No.
170-95.00

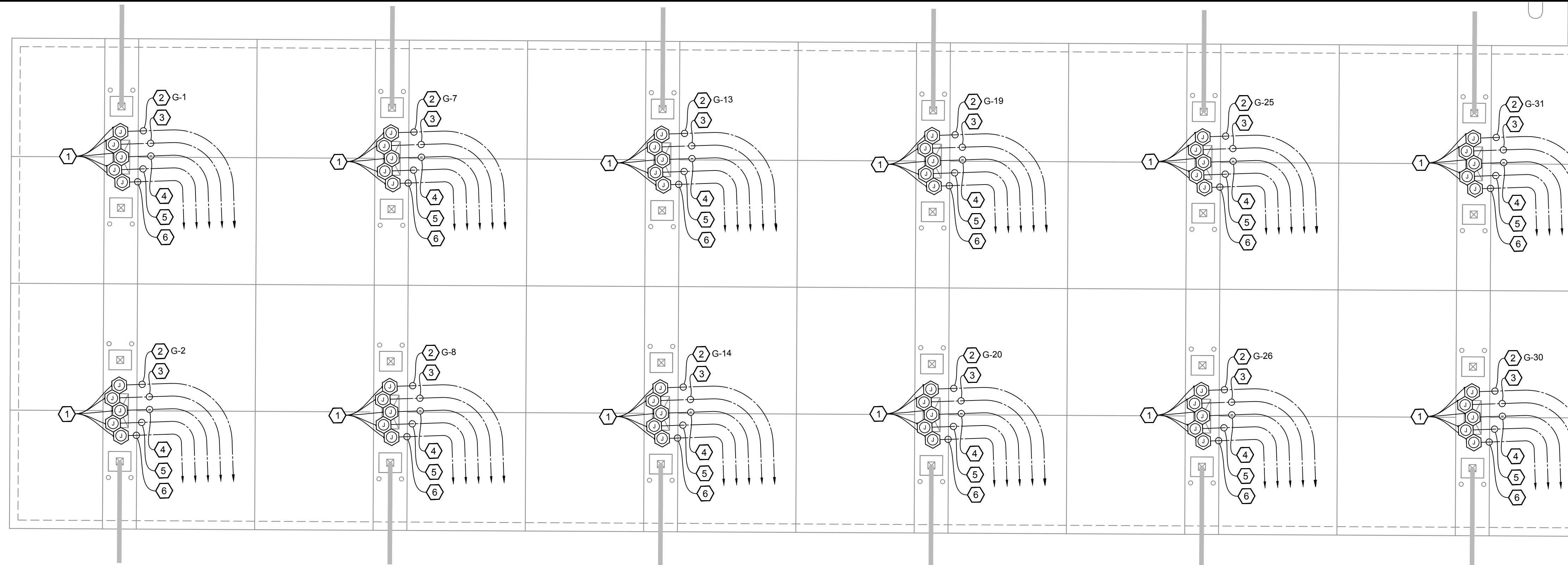
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T10.1





ENLARGED ELECTRICAL PLAN VEHICLE FUELING STATION DETAIL

SCALE
1/8" = 1'-0" **1**

**NO CABLE TIGHT STYLE WIRE
MANAGEMENT SHALL BE UTILIZED FOR
THE DISPENSING UNIT CONDUIT SYSTEMS**

KEYED NOTES:

- 1 EXPLOSION PROOF JUNCTION BOX: CROUSE-HINDS GUA SERIES OR EQUAL.
- 2 VEHICLE FUEL DISPENSER CONDUITS AND CONDUCTORS: 2-#10 (DISPENSER PWR), #10-#14 (FIVE PRODUCT DISPENSER CONTROL), 1- CABLE (DISPENSER DATA PER TANK ELECTRICAL GENERAL NOTE #15), 1- CABLE (CARD READER PER TANK ELECTRICAL GENERAL NOTE #15)& 1-#10 GND, 1" C. ROUTE TO PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.
- 3 DISPENSER INTERCOM: PROVIDE (2) 2/C #18 SHL'D CABLES IN 1" CONDUIT. ROUTE TO INTERCOM MASTER STATION IN CPI UNITIZED SWITCHGEAR.
- 4 DISPENSER VGA SCREEN: PROVIDE (1) CAT5 UL AWM STYLE 21146 CABLE IN 1" CONDUIT. ROUTE TO VEEDER-ROOT ADVERTISEMENT EQUIPMENT IN C-STORE. COORDINATE WITH OWNER FIELD REPRESENTATIVE FOR EXACT LOCATION PRIOR TO SLAB POUR.
- 5 DISPENSER SUMP SENSOR: PROVIDE 2/C #18 SHL'D & 2/C #18 SHL'D (SPARE) IN 3/4" CONDUIT. ROUTE TO FUEL TANK MONITOR PANEL.
- 6 DISPENSER SPARE CONDUIT: PROVIDE (1) SPARE 1" CONDUIT W/ PULL STRING TO CPI UNITIZED SWITCHGEAR.

GENERAL NOTES:

- A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, CURRENT EDITION OF BUILDING CODE AND APPLICABLE LOCAL ORDINANCES.
- B. VERIFY ALL MECHANICAL EQUIPMENT SIZES PRIOR TO ROUGH-IN.
- C. COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
- D. ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA 30A.
- E. ALL INTRINSICALLY SAFE (IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSII/ISA RP 12.8. IN ADDITION, SPECIAL (IS) WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRINGS VIA SEPARATE RACEWAYS (INCLUDING TROUGHS). TROUGHS SHALL HAVE A PERMANENTLY ATTACHED METAL DIVIDER THAT IS EQUIPOTENTIALLY BONDED TO EARTH.
- F. FURNISH AND INSTALL POURED SEALING FITTINGS AT BOTH ENDS OF ALL CONDUITS FROM FUEL DISPENSERS AND UNDERGROUND FUEL STORAGE TANKS.
- G. REFERENCE MANUFACTURER INSTALLATION MANUALS FOR UNDERGROUND FUEL STORAGE TANK EQUIPMENT WIRING INTERCONNECTIONS.
- H. ALL POWER CONDUCTORS SHALL BE STRANDED WITH DUAL RATED THHN/THWN INSULATION.
- I. INTERMEDIATE METAL CONDUIT (IMT) SHALL NOT BE USED.
- J. HOMERUN CONDUITS TO DISPENSERS AND TANKS TO BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT AND SCHEDULE 40 PVC PER NEC ARTICLE 514.8, EXCEPTION #2.
- K. ALL CONDUIT ROUTED BETWEEN TANK SUMPS SHALL BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT.
- L. PENETRATE SUBMERSIBLE TURBINE PUMP (STP) WITH ONLY (1) VEEDER-ROOT CONDUIT.
- M. PROVIDE 'EYS' SEALING FITTINGS WHERE CONDUITS ENTER OR LEAVE ANY HAZARDOUS CLASSIFIED AREA.
- N. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER AND INTRINSICALLY SAFE CONDUITS.
- O. REFER TO BUILDING ELECTRICAL DRAWINGS FOR PANEL SCHEDULES.
- P. THE TERM PROVIDE MEANS THAT THE CONTRACTOR WILL 'FURNISH' AND 'INSTALL' ITEM.

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/17/2023

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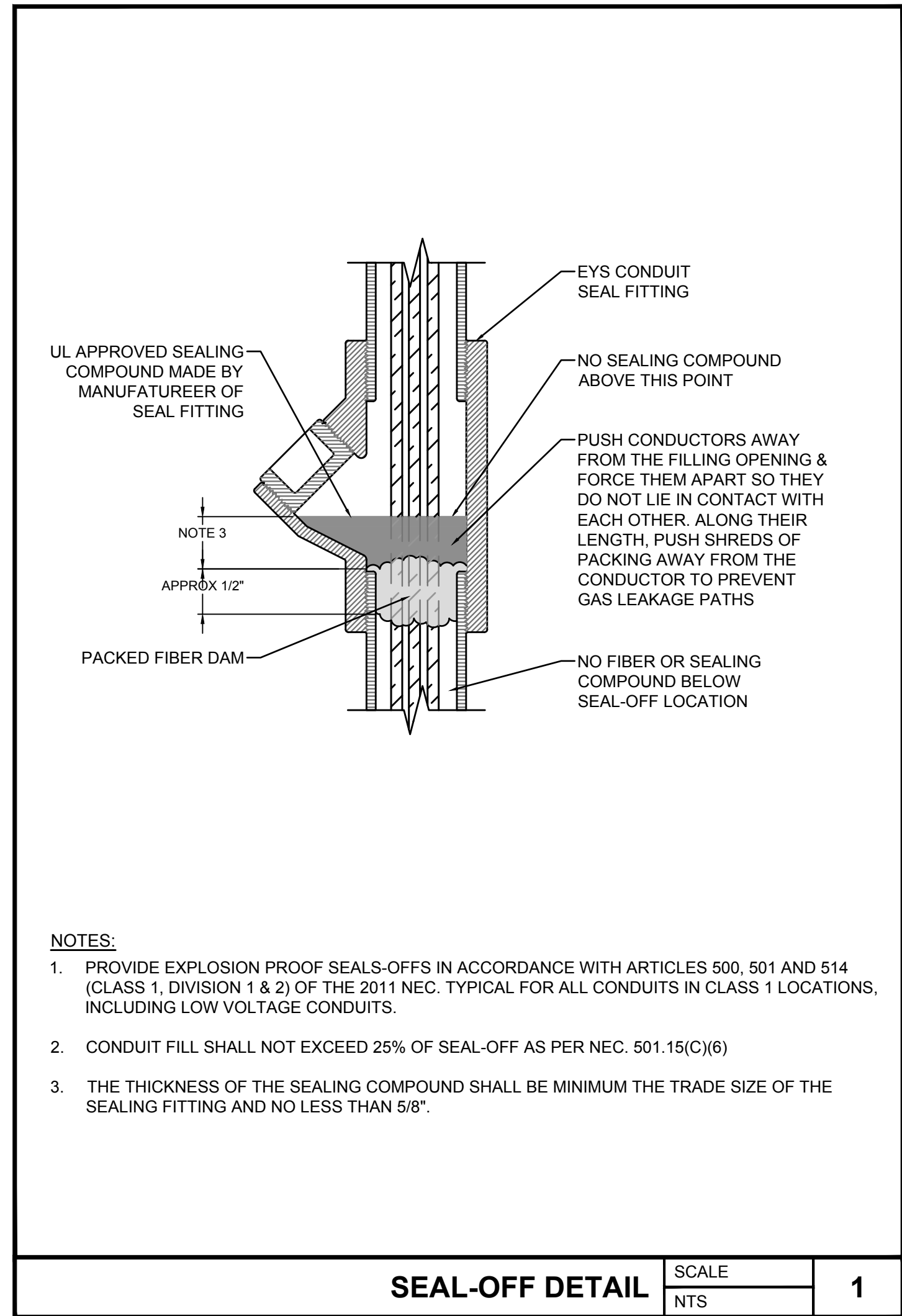
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
**ENLARGED ELECTRICAL
FUEL STATION PLANS**

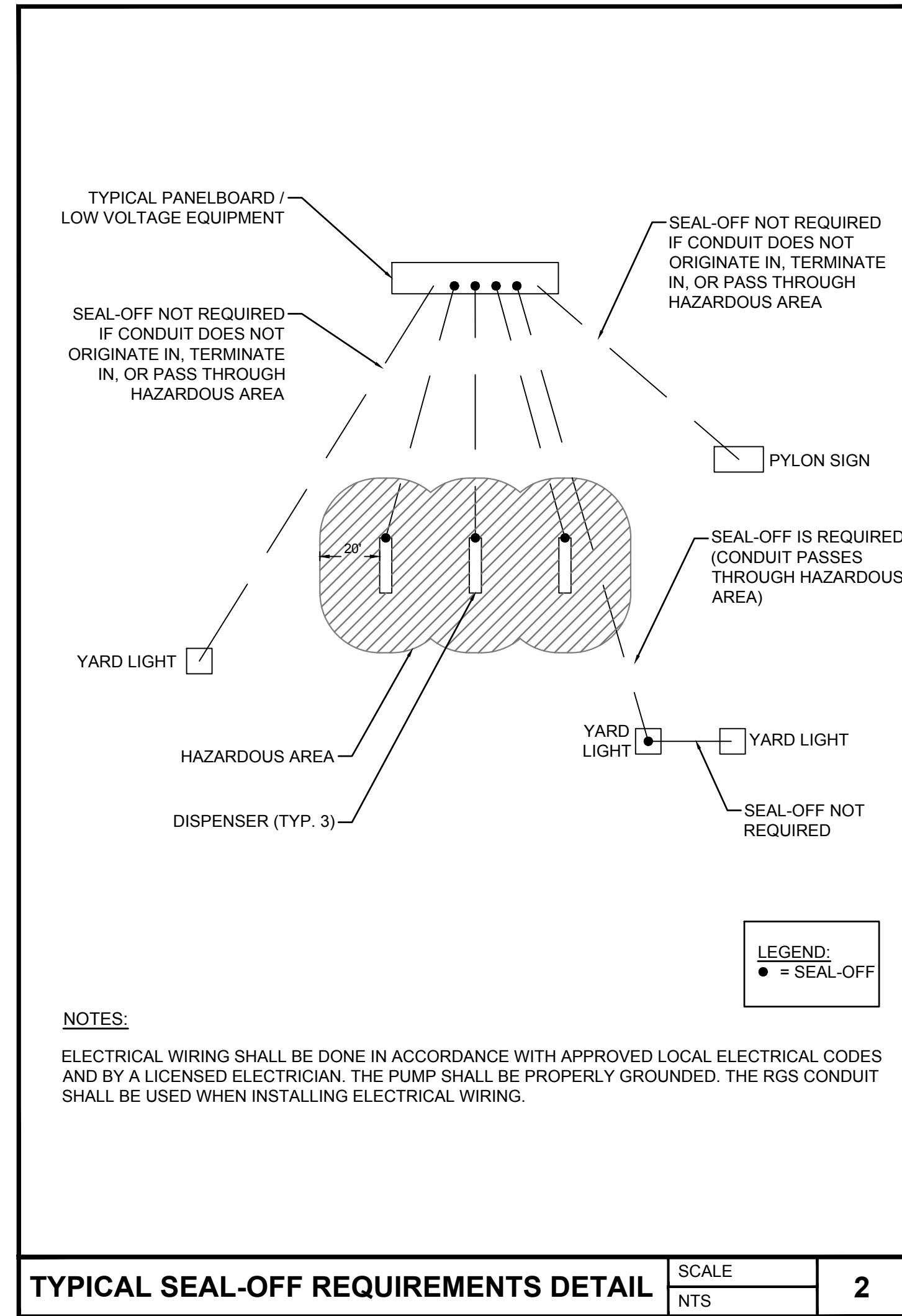
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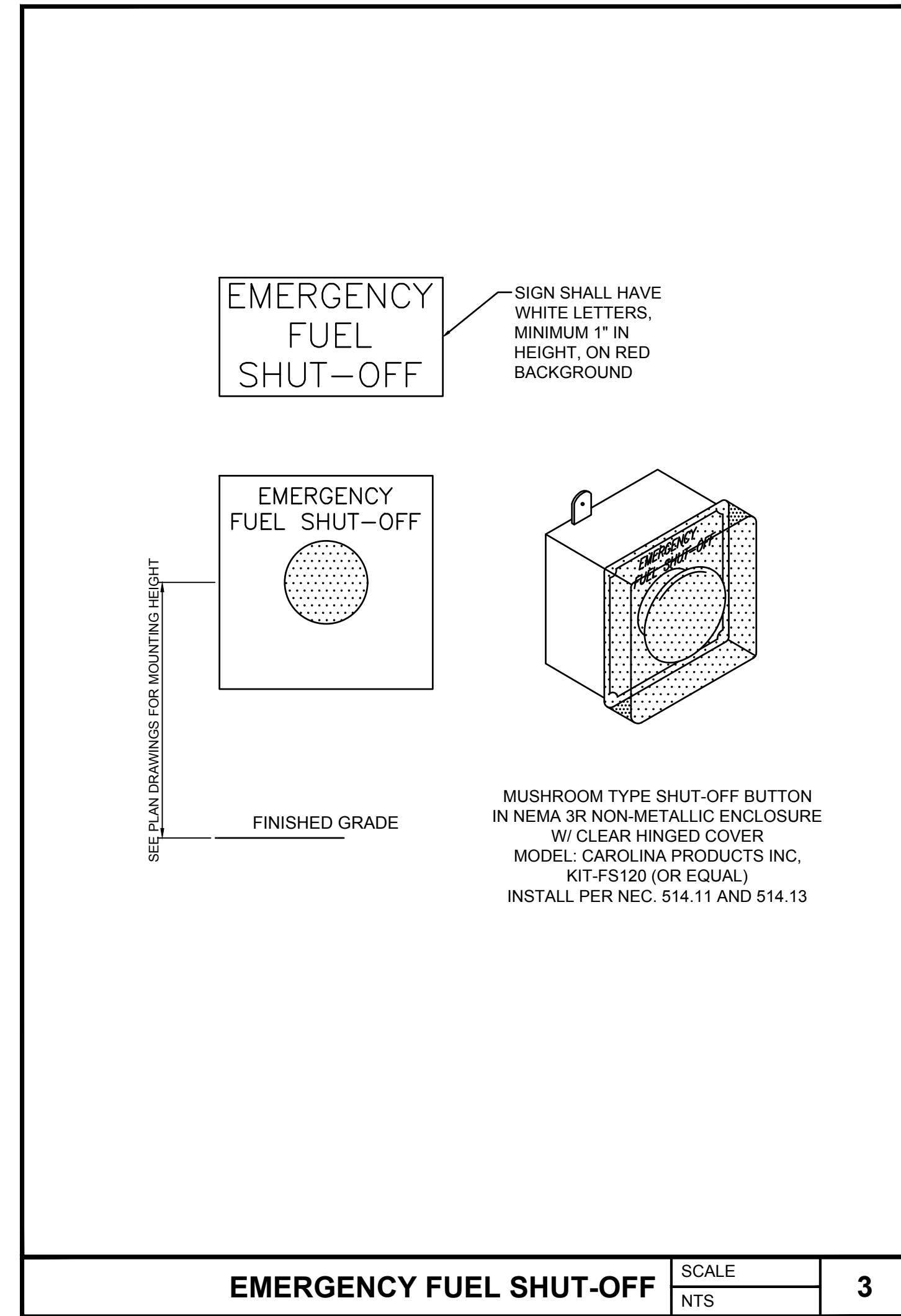
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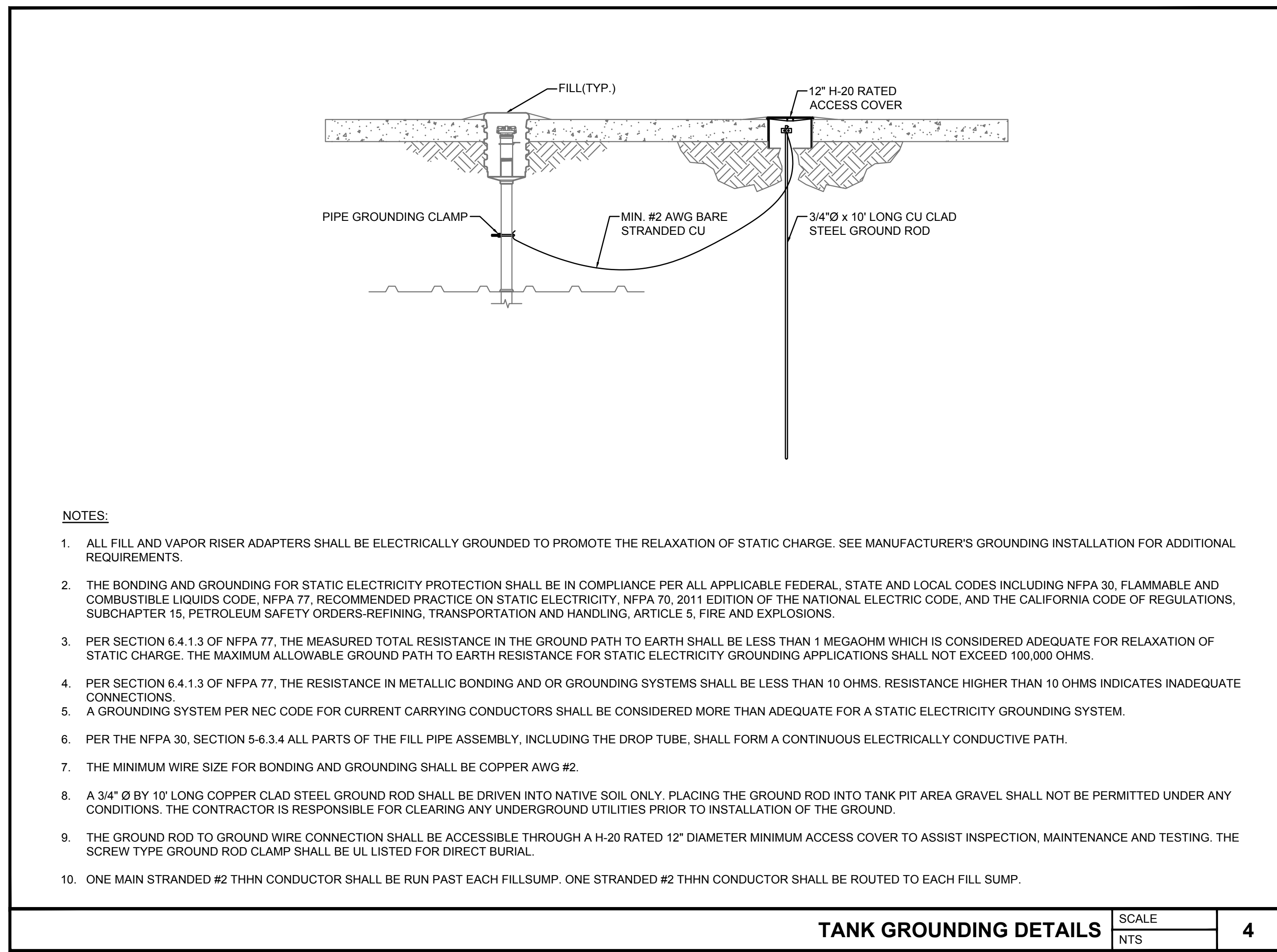
SEAL-OFF DETAIL SCALE NTS 1



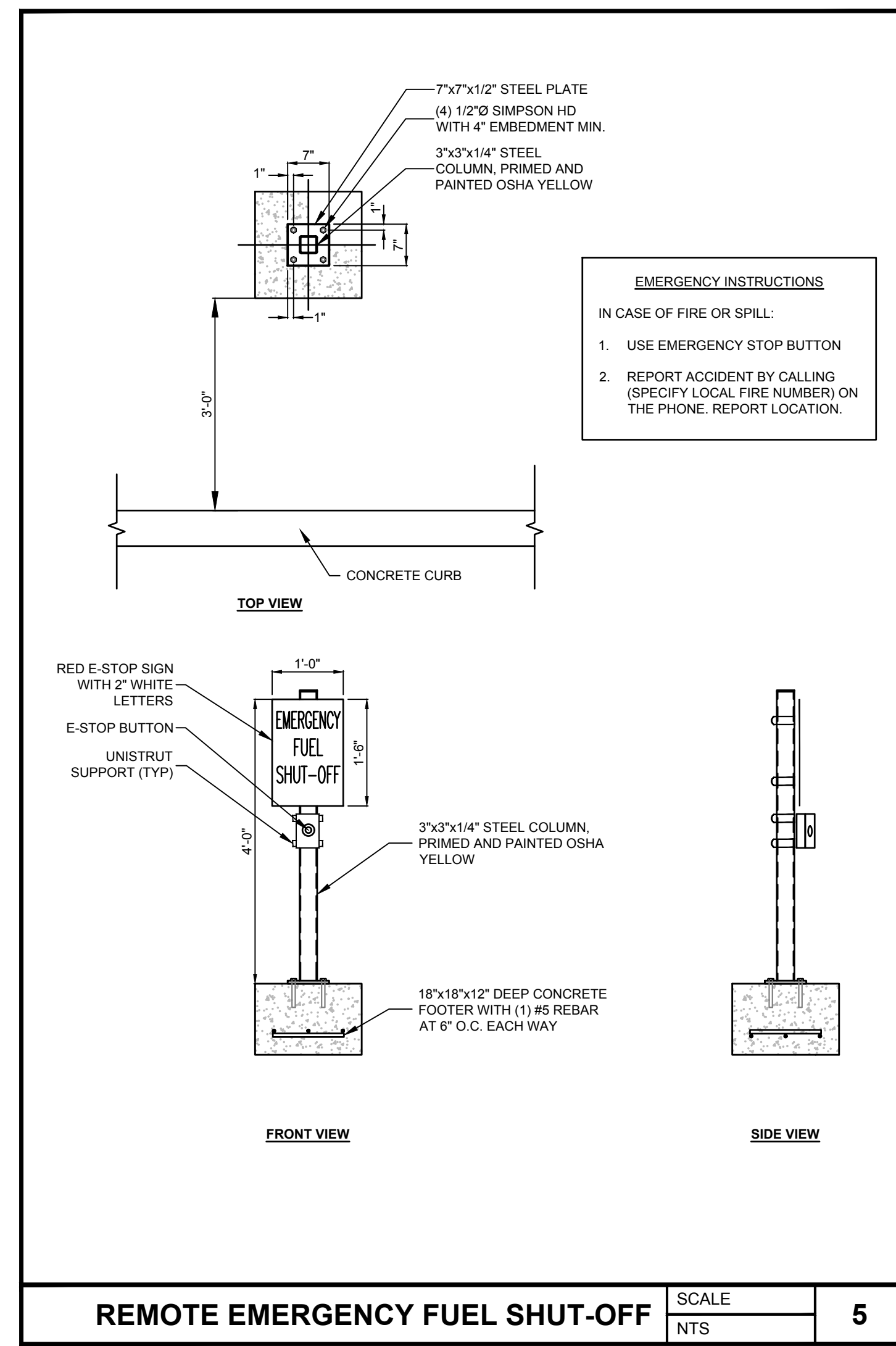
TYPICAL SEAL-OFF REQUIREMENTS DETAIL SCALE NTS 2



EMERGENCY FUEL SHUT-OFF SCALE NTS 3



TANK GROUNDING DETAILS SCALE NTS 4



REMOTE EMERGENCY FUEL SHUT-OFF SCALE NTS 5

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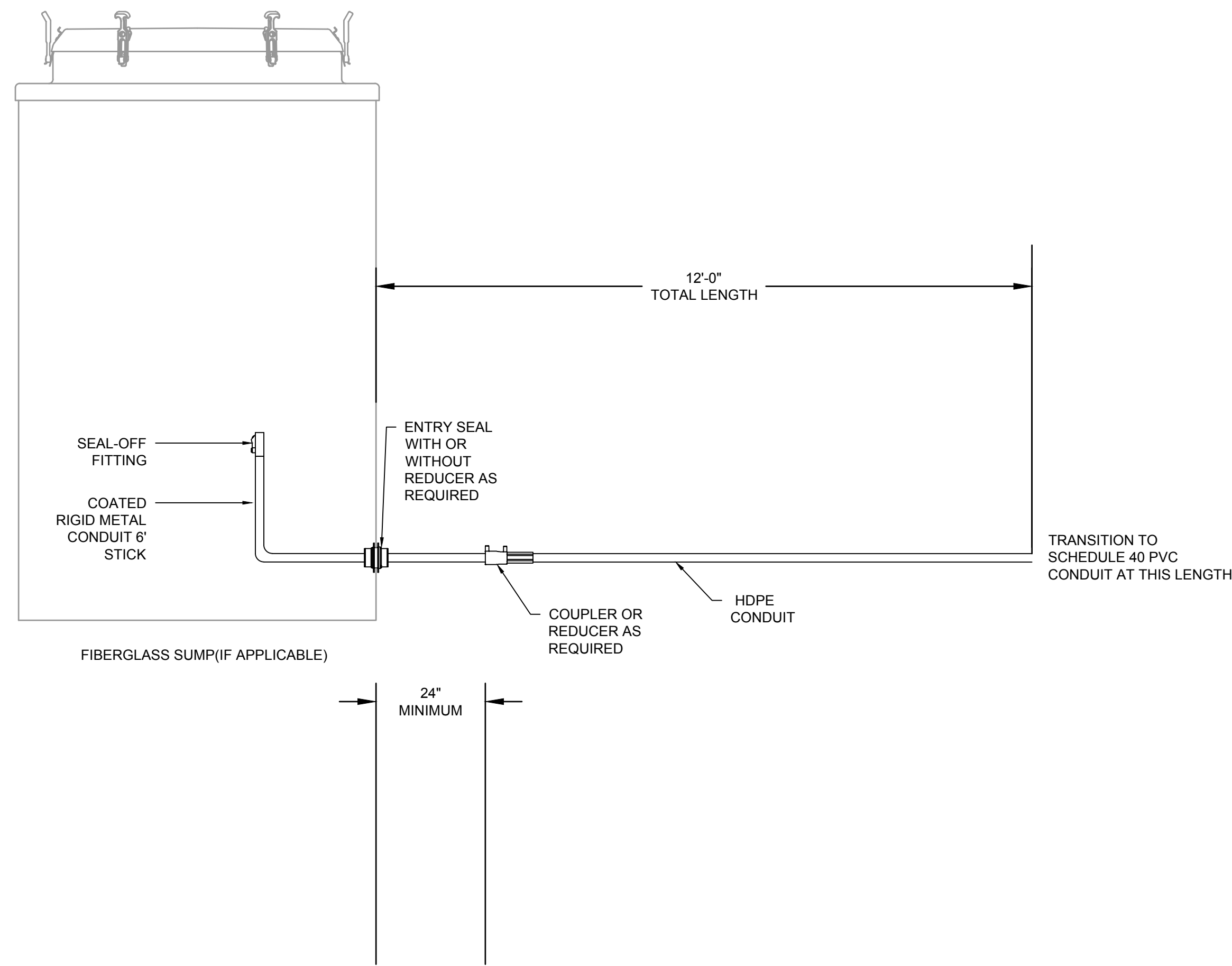
Sheet Title
TANK ELECTRICAL DETAILS

Project No.
170-95.00

Sheet
T11.0

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Checked By:



FRANKLIN CABLE TIGHT ELECTRICAL CONDUIT SYSTEM FOR UST STP SUMPS DETAIL

SCALE	1
NTS	

FRANKLIN FUELING CABLE TIGHT WIRE MANAGEMENT SPECIFICATION

PART 1 GENERAL

1. SECTION INCLUDES:
 - 1.1. THE UNDERGROUND WIRE MANAGEMENT SYSTEM SHALL BE CABLE TIGHT AS MANUFACTURED BY FRANKLIN FUELING SYSTEMS. SYSTEM SHALL CONSIST OF IMPACT RESISTANT, CORROSION-RESISTANT HDPE (HIGH DENSITY POLYETHYLENE) CONSTRUCTION.
2. REFERENCES:
 - 2.1. NFPA 30 - FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
 - 2.2. NFPA 30A - CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES
 - 2.3. UNDERWRITERS LABORATORIES - UL-651 HDPE CONDUIT
 - 2.4. FFS 408001007 UPP PIPING SYSTEMS ELECTROFUSION WELDING INSTRUCTIONS
 - 2.5. FFS 408001010 EF1-230V HAND-HELD WELDER OPERATING MANUAL
 - 2.6. FFS 408001016 UPP PIPING INSTALLATION GUIDE
 - 2.7. FFS 408001017 UPP ELECTROFUSION ENTRY SEAL INSTALLATION GUIDE
 - 2.8. FFS 771-125-00 CONDUIT RIGID ENTRY BOOTS INSTALLATION INSTRUCTIONS
 - 2.9. UL6 & UL971 RIGID METAL CONDUITS
 - 2.10. UL 971 ELECTROFUSION FITTINGS
3. QUALITY ASSURANCE:
 - 3.1. THE WIRE MANAGEMENT SYSTEM SHALL BE INSTALLED AS SPECIFIED ON CONTRACT DRAWINGS AND OR AT THE DISCRETION OF THE RESPONSIBLE INSTALLING CONTRACTOR TO PROVIDE A COMPLETE AND TESTED WIRE MANAGEMENT SYSTEM AS REQUIRED FOR THE PROJECT AND PER FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
4. DELIVERY, STORAGE, AND HANDLING:
 - 4.1. CONDUIT AND FITTINGS SHALL BE PROTECTED FROM DAMAGE DUE TO IMPACT AND POINT LOADING. THE CONTRACTOR SHALL NOT ALLOW DIRT, DEBRIS OR OTHER EXTRANEOUS MATERIALS TO GET INTO THE CONDUIT AND FITTINGS.
5. PROJECT CONDITIONS:
 - 5.1. PERFORM GROUND PENETRATING RADAR STUDY, SITE SURVEY, RESEARCH PUBLIC UTILITY RECORDS AND VERIFY EXISTING UTILITY LOCATIONS. CONTACT UTILITY-LOCATING SERVICE FOR AREA WHERE PROJECT IS LOCATED.

PART 2 PRODUCTS

6. ACCEPTABLE MANUFACTURERS:
 - 6.1. ALL CONDUIT, FITTINGS AND SPECIALTY COMPONENTS FOR COMPLETE AND CODE COMPLIANT CONDUIT SYSTEMS PER FRANKLIN FUELING CABLE TIGHT.
 - 6.2. CABLE TIGHT FITTINGS AND ENTRIES SHALL BE UL971 LISTED ELECTROFUSION TYPE AND MADE OF MOLDED HDPE WITH NYLON BASED POLYMERS. FITTINGS INCLUDE COUPLERS, REDUCERS, TERMINATION FITTINGS, UNIONS AND ENTRY FITTINGS.
 - 6.3. ALL CONDUIT TIGHT FITTINGS AND CONDUIT ARE TO BE ELECTROFUSED USING THE ELECTROFUSION WELDER IN ACCORDANCE WITH MANUFACTURER INSTALLATION REQUIREMENTS.
 - 6.4. CONDUIT:
 - 6.4.1. CONDUIT SHALL BE AVAILABLE IN 3/4" THRU 1" DIAMETERS.
 - 6.4.2. ALL PART NUMBER BELOW ARE FRANKLIN FUELING (ONLY PROVIDE WHAT IS NEEDED FOR THE APPLICATION):
 - 000-075-1000-EC-U 3/4" FLEXIBLE CONDUIT REEL 1000'
 - 000-075-1500-EC-U 3/4" FLEXIBLE CONDUIT REEL 1500'
 - 000-075-06-ERM-C-PE 3/4" COATED RIGID METAL CONDUIT-12 PACK
 - 000-075-06-ERM-C 3/4" SPIGOTTED RIGID METAL CONDUIT(6' STICK) 12 PACK
 - 91-027 NPT 3/4" SPIGOTTED RIGID METAL CONDUIT(8" STUB)
 - REB-C-0075 3/4" FIBERGLASS ENTRY SEAL(FLAT SURFACE)
 - REB-C-R-0075 3/4" FIBERGLASS ENTRY SEAL(ROUND SURFACE)
 - 303-063 POLYETHYLENE ENTRY SEAL (USED FOR 3/4" AND 1" SYSTEMS)
 - 49-063-031 3/4" POLYETHYLENE ENTRY SEAL REDUCER
 - 02-027 3/4" COUPLER
 - 000-100-1000-EC-U 1" FLEXIBLE CONDUIT REEL 1000'
 - 000-100-06-ERM-C-PE 1" COATED RIGID METAL CONDUIT(6' STICK) 12 PACK
 - 000-100-06-ERM-C 1" SPIGOTTED RIGID METAL CONDUIT(6' STICK) 12 PACK
 - 91-033 NPT 1" SPIGOTTED RIGID METAL CONDUIT(8" STUB)
 - REB-C-0100 1" FIBERGLASS ENTRY SEAL(FLAT SURFACE)
 - REB-C-R-0100 1" FIBERGLASS ENTRY SEAL(ROUND SURFACE)
 - 303-063 POLYETHYLENE ENTRY SEAL (USED FOR BOTH 3/4" AND 1" SYSTEMS)
 - 49-063-038 1" REDUCING COUPLER
 - 02-033 1" COUPLER
 - EF1-110V-A ELECTROFUSION WELDER 110V
 - EF1-230V HANDHELD ELECTROFUSION WELDER, 230V
 - 408032001 STEP-UP TRANSFORMER REQUIRED FOR HAND-HELD WELDER OPERATION
 - EF1-BC 2MM EF1 WELDER BRIDGING CABLE
 - ROTOSCRAPER075 3/4" SPEED SCRAPER TOOL
 - ROTOSCRAPER100 1" SPEED SCRAPER TOOL
 - SCR-025-125 ROTARY SCRAPER
 - SCR.HAR HANDHELD SCRAPER
 - SCR.HAR(B) SPARE BLADES FOR HANDHELD SCRAPER
 - 303-CLAMP-1 POLYETHYLENE ENTRY SEAL WELDING CLAMP
 - 408179001 3/4" SPIGOTTED RIGID METAL CONDUIT TO 3/4" FLEXIBLE CONDUIT CLAMP
 - 408179002 1" SPIGOTTED RIGID METAL CONDUIT TO 1" FLEXIBLE CONDUIT CLAMP
 - 408179003 3/4" COATED RIGID METAL CONDUIT TO 3/4" FLEXIBLE CONDUIT CLAMP
 - 408179004 1" COATED RIGID METAL CONDUIT TO 1" FLEXIBLE CONDUIT CLAMP
 - 408005901 CONSUMABLES KIT INCLUDING LINT FREE RAGS, MARKERS, SPRAY BOTTLES, NITRILE GLOVES, EMERY CLOTH AND PAINT SCRAPERS.

IMPORTANT:
 EC SHALL PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND CODE COMPLIANT WIRE MANAGEMENT SYSTEM BY FRANKLIN FUELING SYSTEMS 'CABLE TIGHT' FOR THE (2) CONDUITS FROM EACH STP SUMP EXTENDING 12'-0" FROM THE STP SUMP AND TRANSITION TO SCHEDULE 40 PVC CONDUIT UNDERGROUND ONLY.

01/04/2024	03/17/2023	Date
ISSUE CLIENT COMMENTS - REV 1	ISSUE FOR PERMIT	Revision/Issue
2	1	No.



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Date

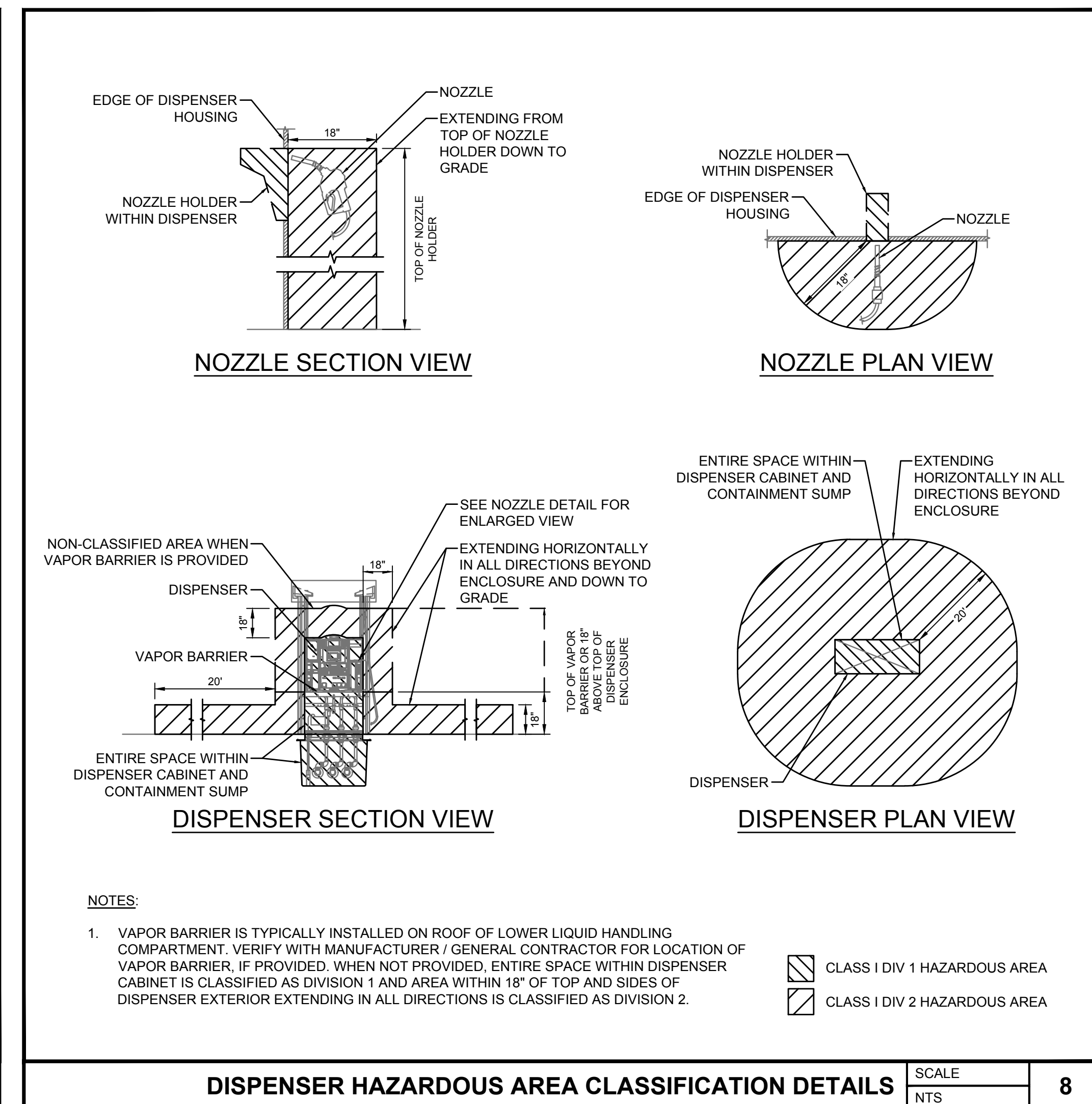
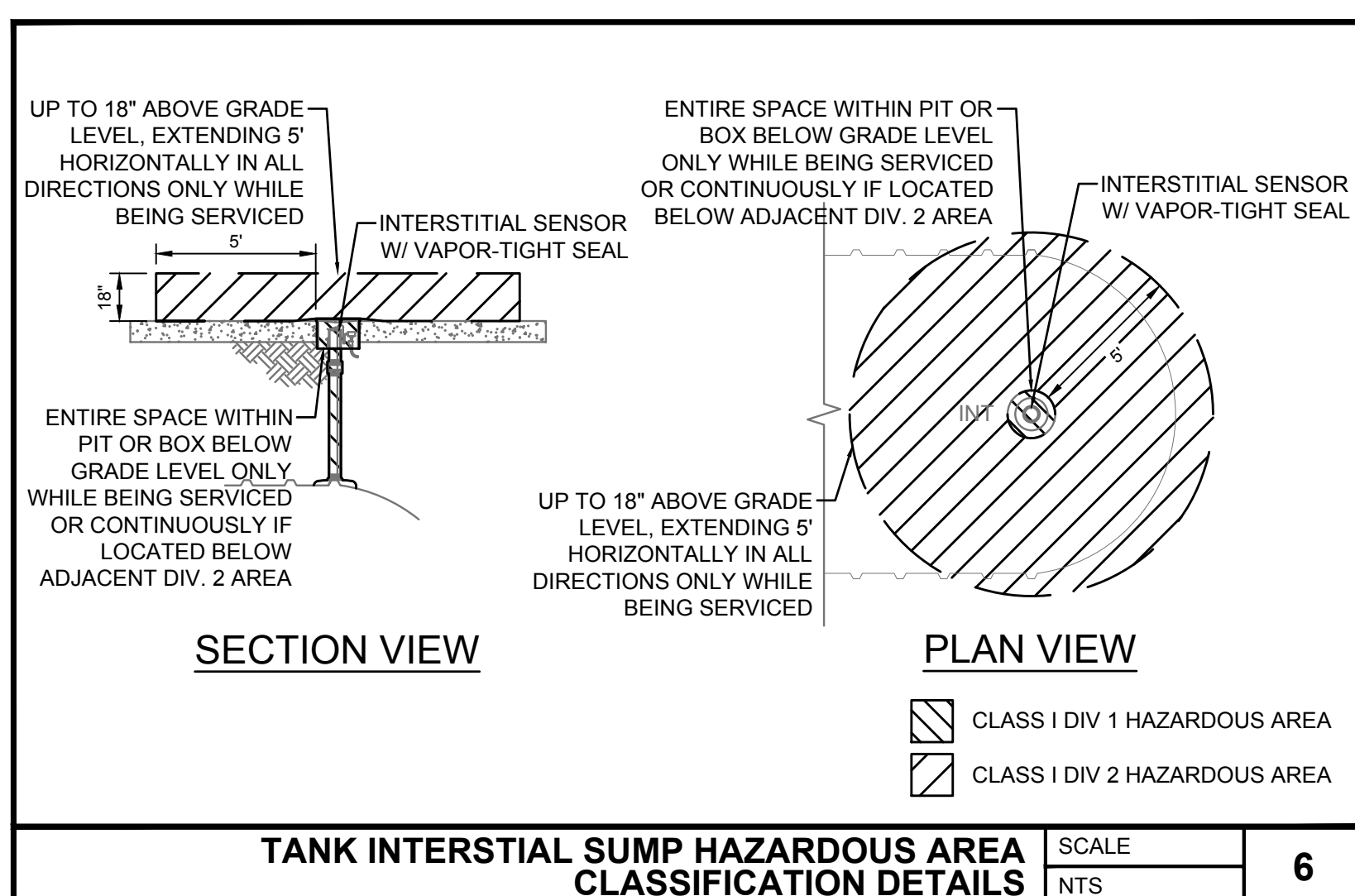
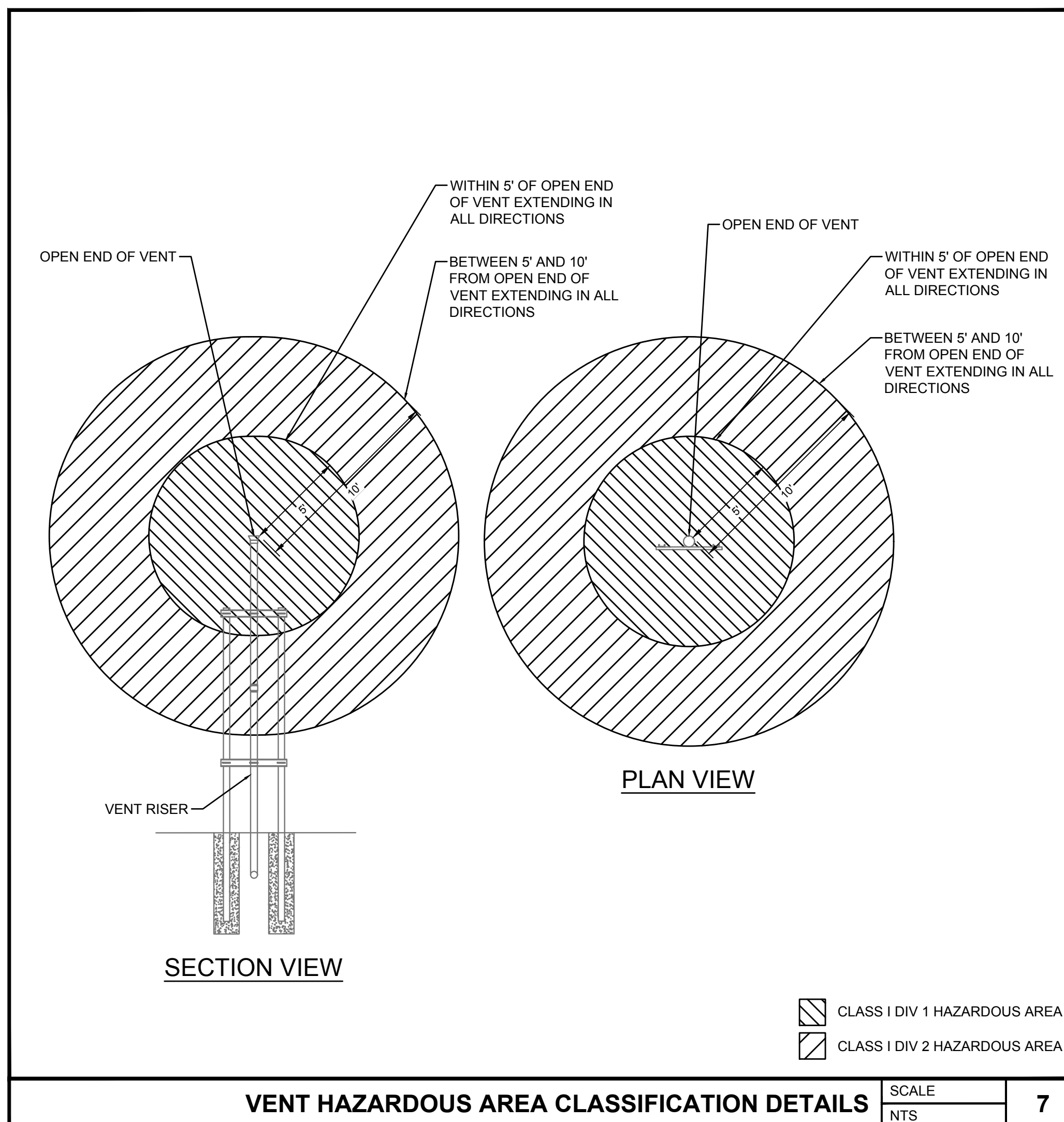
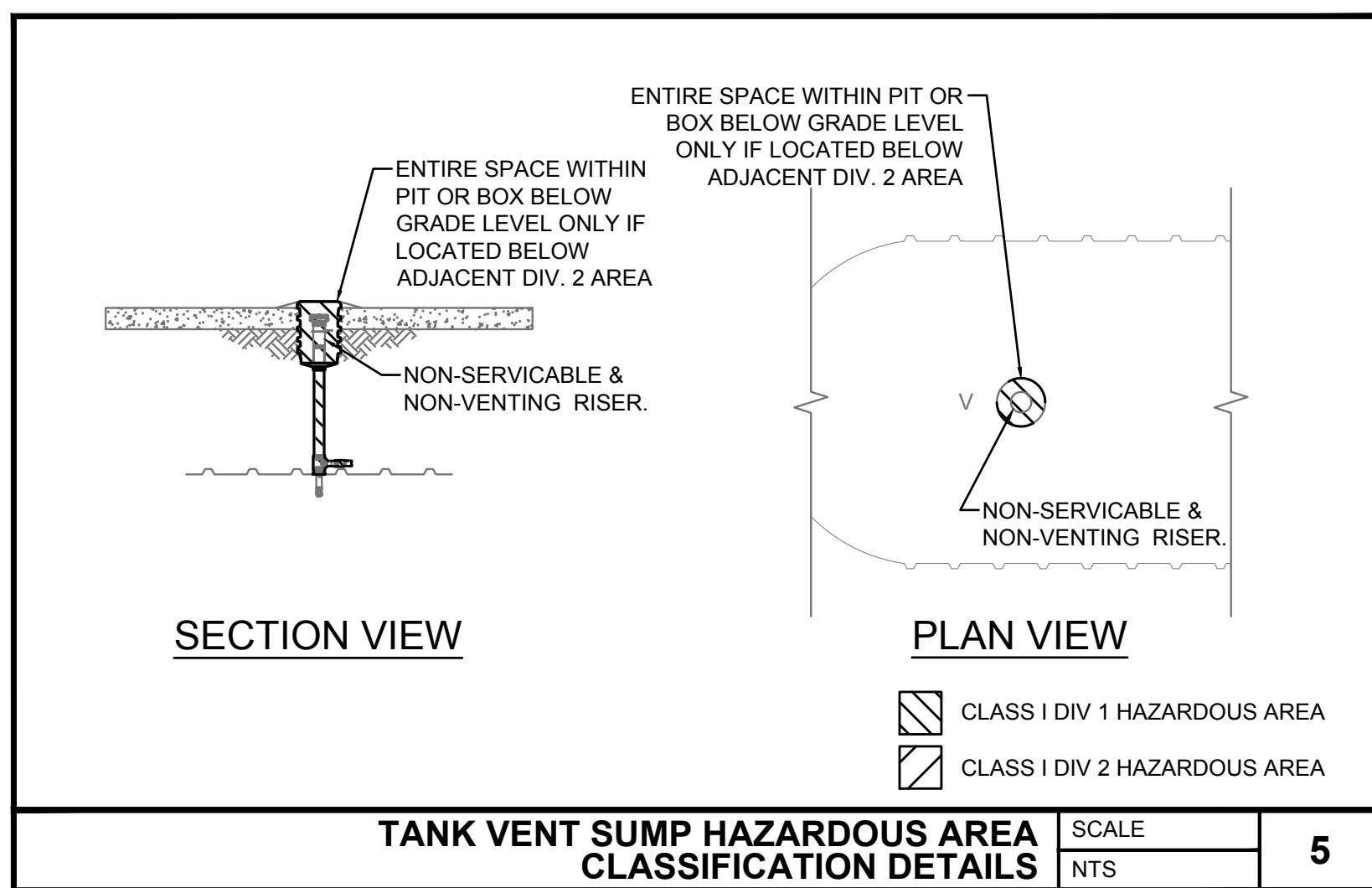
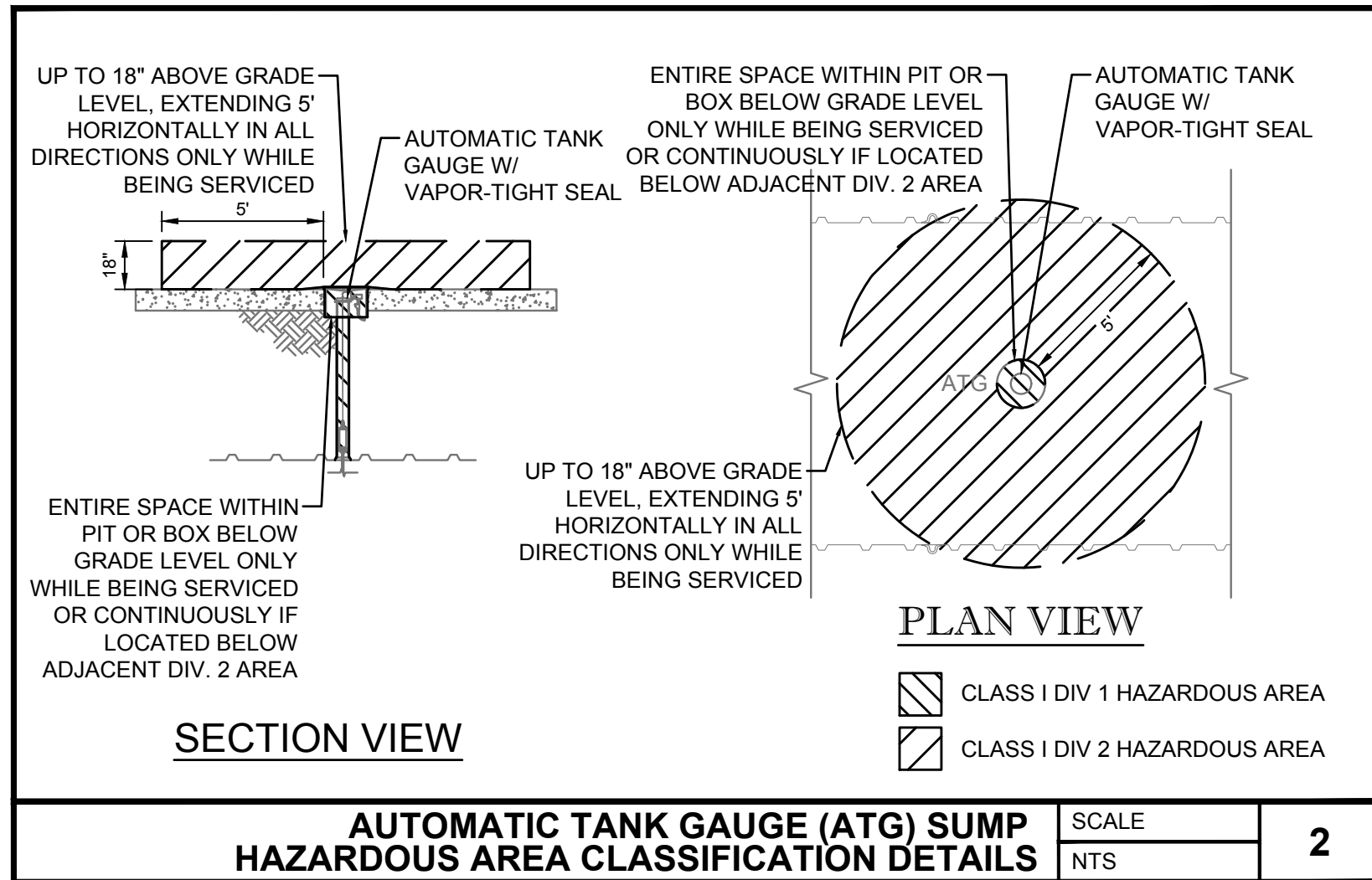
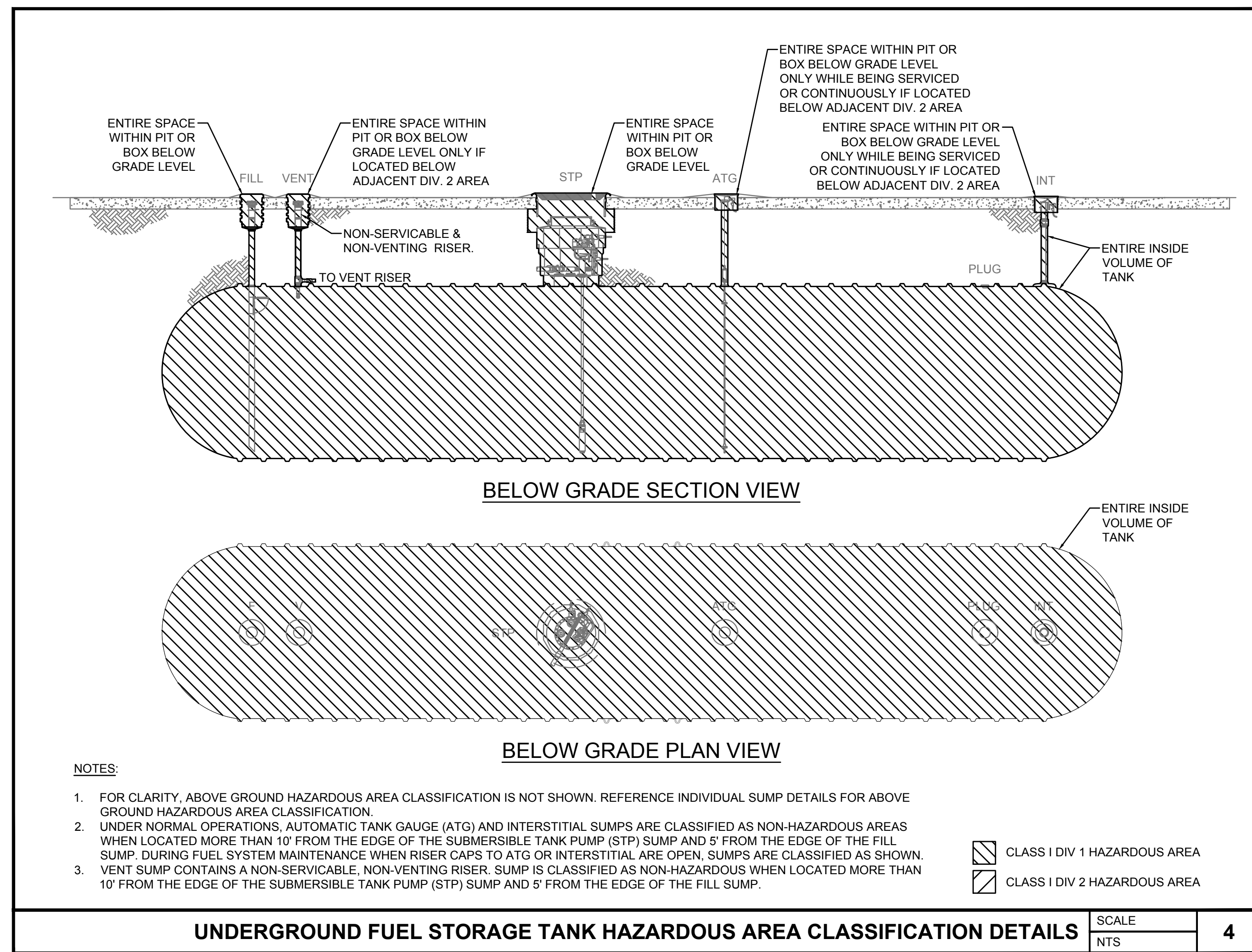
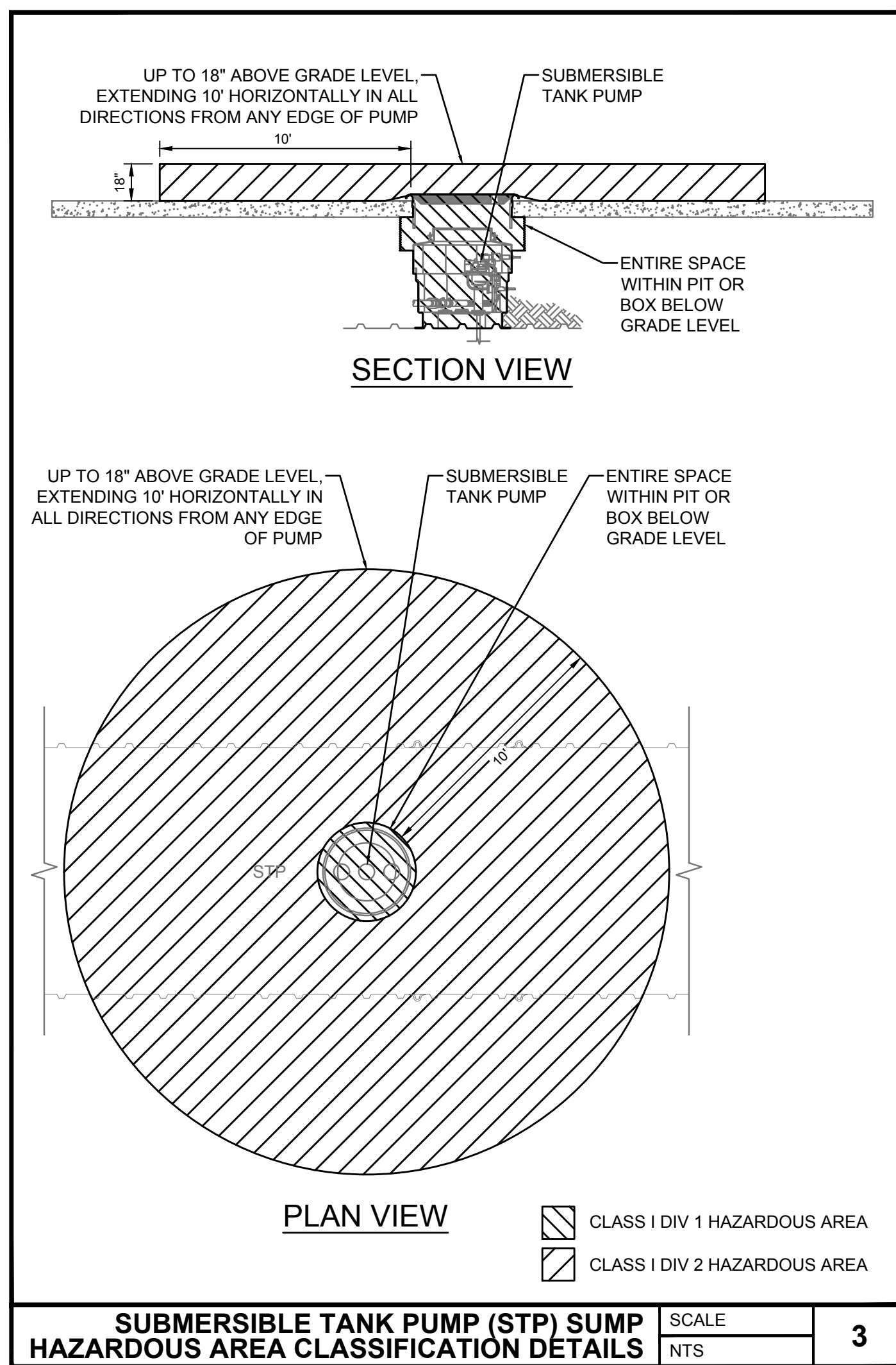
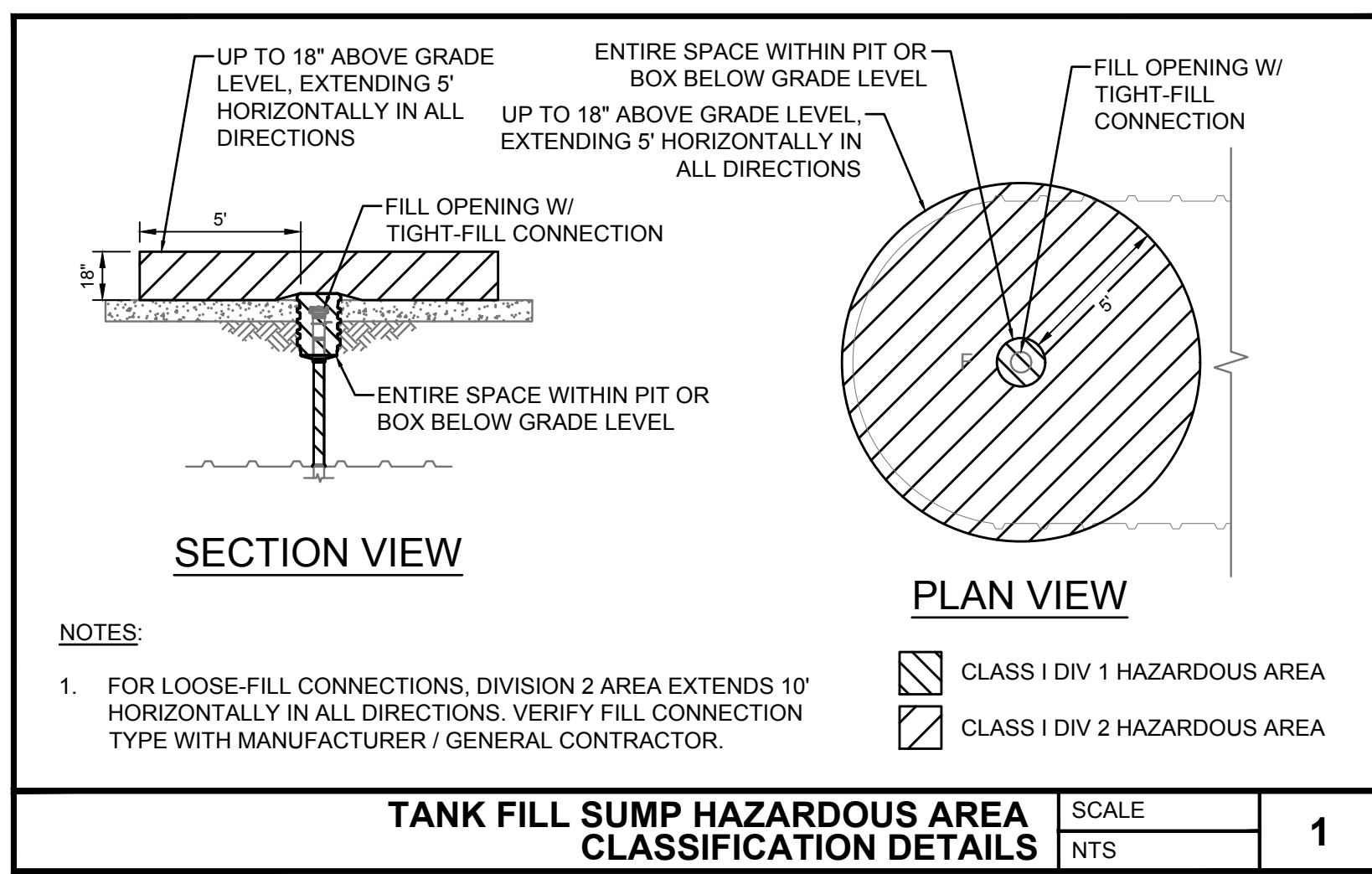
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CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
TANK ELECTRICAL DETAILS

Project No.
 170-95.00

Sheet
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01/04/2024	Date
03/12/2023	Issue Client Comments - REV 1
1	Issue for Permit
2	Revision/Issue

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Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
HAZARDOUS AREA CLASSIFICATION DETAILS

Project No. 170-95.00
Scale: T12.0
Checked By:

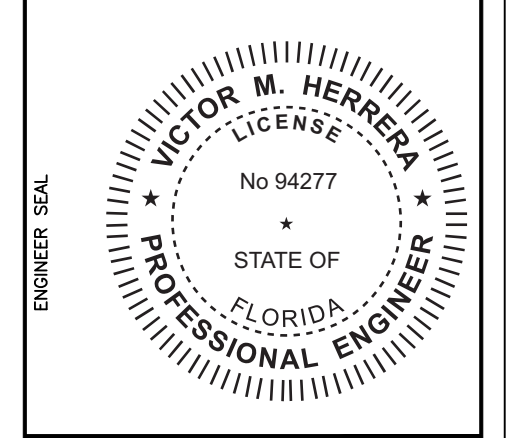


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3113 St. Louis Ave. Fort Worth, Texas (817)924-6173

DRAWING DESCRIPTION
CANOPY FOUNDATION
SECTIONS AND DETAILS

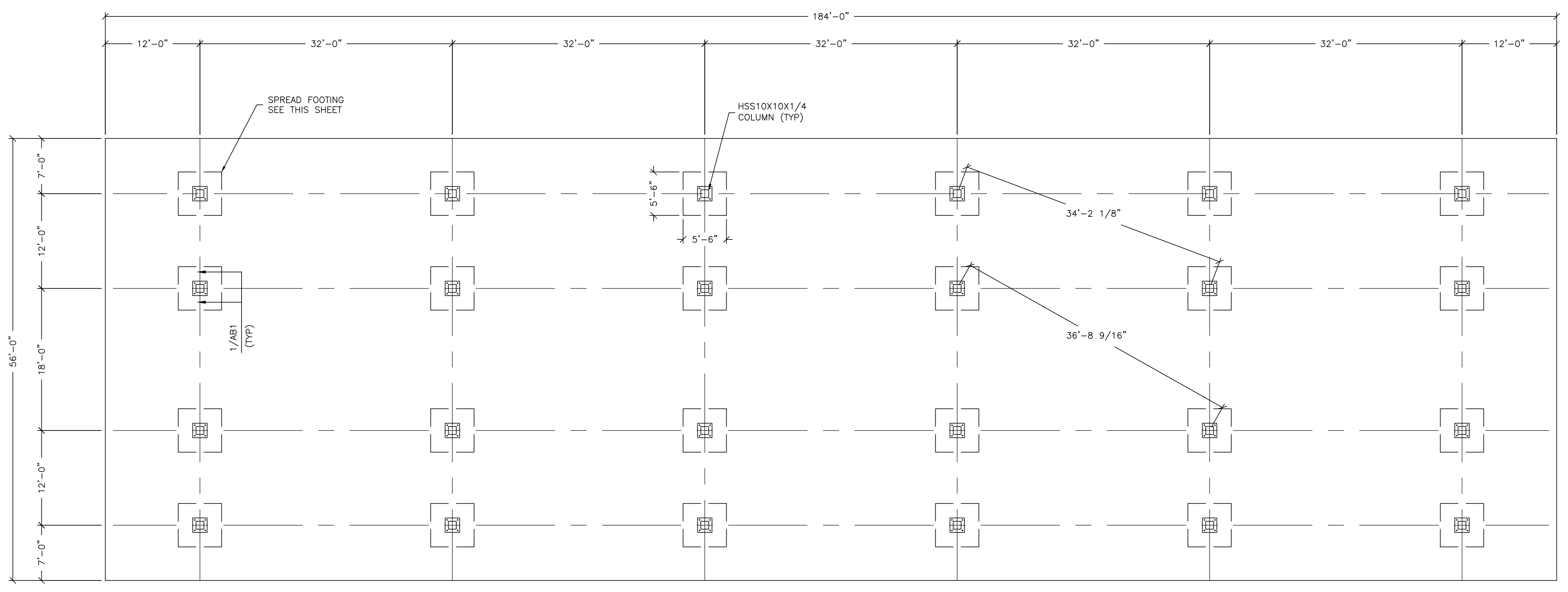
JOB LOCATION
CEFCO #446
HWY 331 S
DEFUNIAK SPRINGS, FL



CUSTOMER	FIKES WHOLESALE, INC.	
	NO. DESCRIPTION:	REVISIONS
NO.	DATE:	BY:

M. KOVAL DRAWN BY:	V. HERRERA, PE CHECKED BY:
	04-04-2023 DATE:

JOB NO.
23-1624R0
DWG. NO.
AB1
OF 3 SHEETS

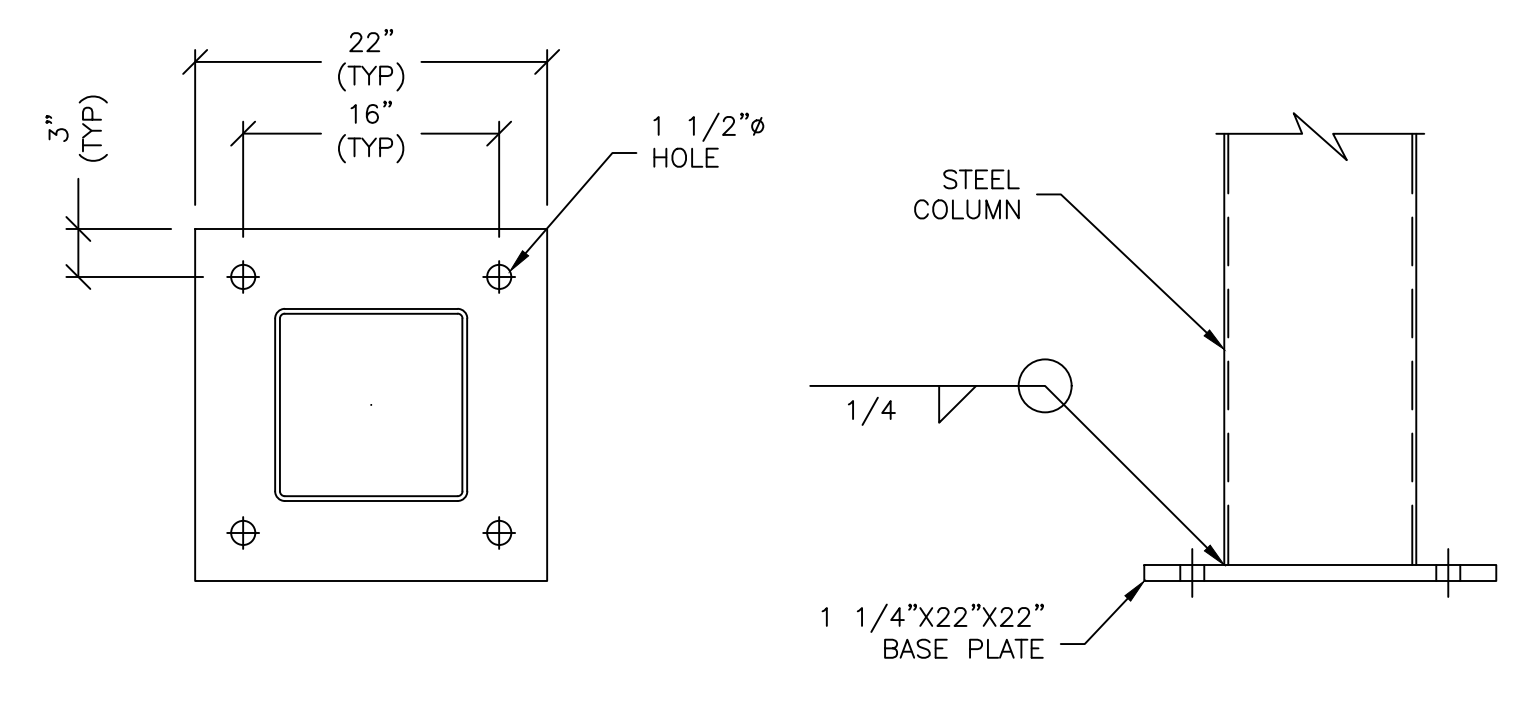


FOUNDATION PLAN
SCALE: 1/8"=1'-0"

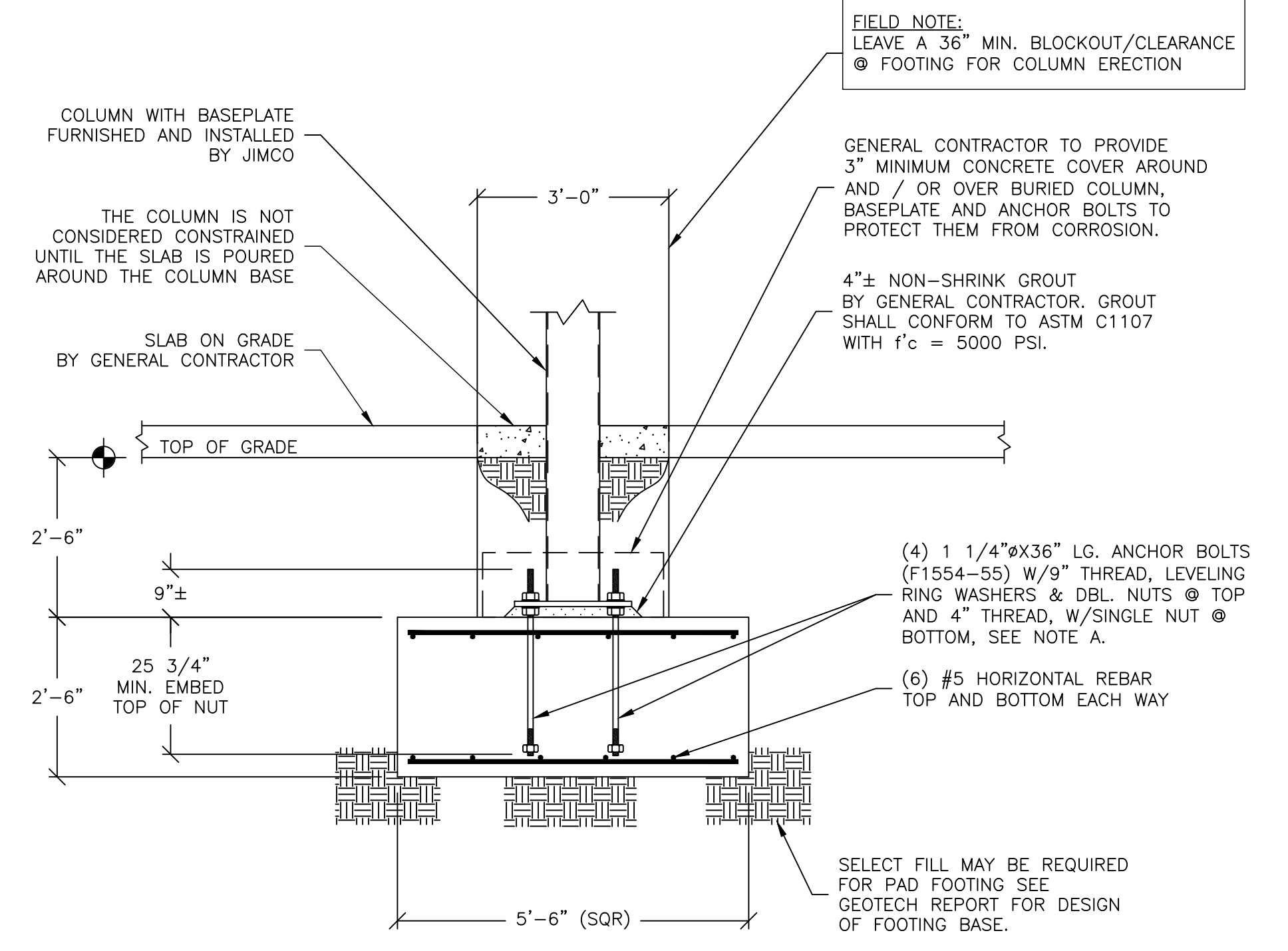
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NOTE:
A) FOOTINGS INCLUDING CONCRETE, REBAR, FORMWORK AND ASSOCIATED EARTHWORK SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR EXCEPT ANCHOR BOLTS SHALL BE FURNISHED BY JIMCO AND INSTALLED BY GENERAL CONTRACTOR.
B) SEE FOUNDATION, CONCRETE NOTES ON DWG CS1.

FIELD NOTE:
LEAVE A 36" MIN. BLOCKOUT/CLEARANCE @ FOOTING FOR COLUMN ERECTION

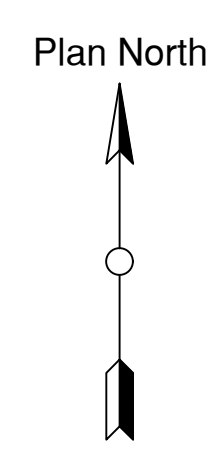
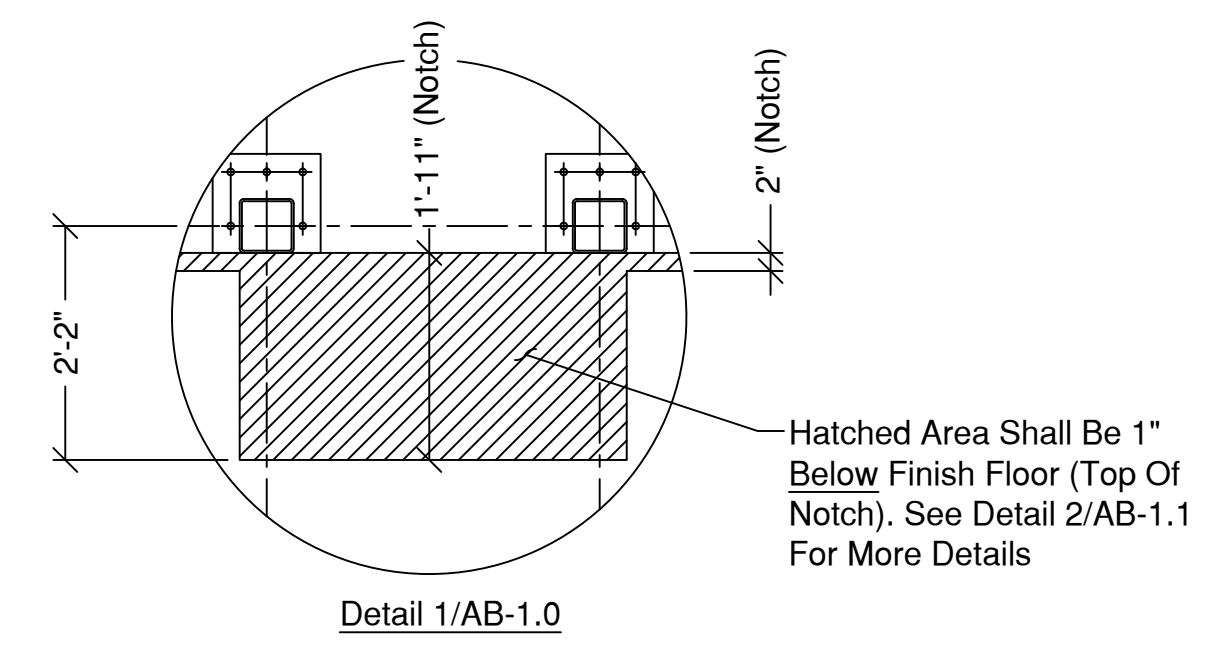
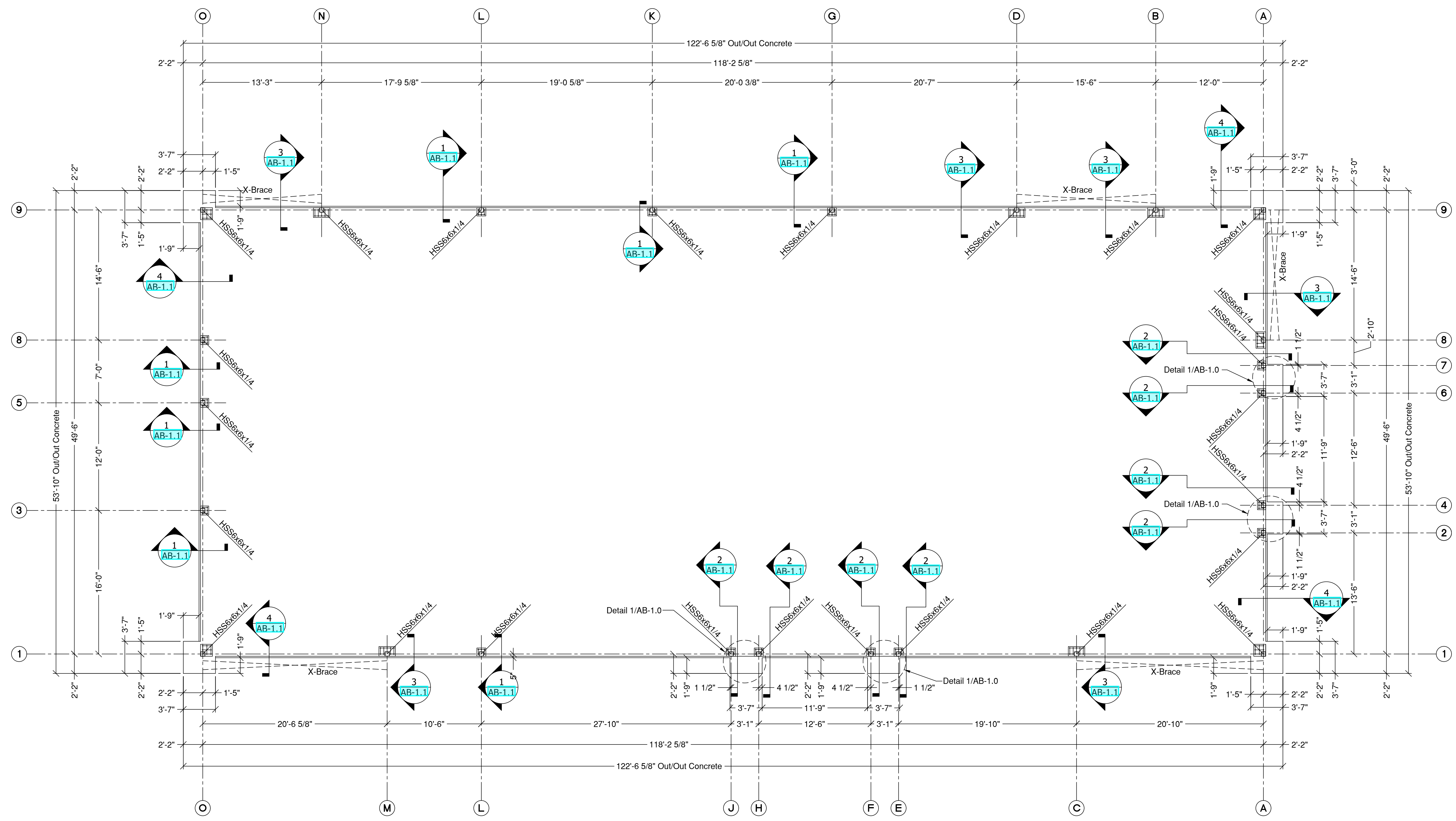


1 BASE PLATE DETAIL
SCALE: 1"=1'-0"



SPREAD FOOTING DETAIL
SCALE: 1/2"=1'-0"

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Embed Plate Setting Plan

NOTE - THIS PLAN IS FOR SETTING EMBEDS ONLY.
See Engineer Of Record Structural Drawings For All Foundation Notes, And Sections. Location Of Grade Beams, Piers, Floor Drains, Concrete Pads & Freezer Pads Are Not Shown.

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RELEASED FOR CONSTRUCTION
FIELD ERECTION SET
DATE ISSUED: 3-28-24

REVISIONS:

NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
0	3-28-24	Released For Fabrication

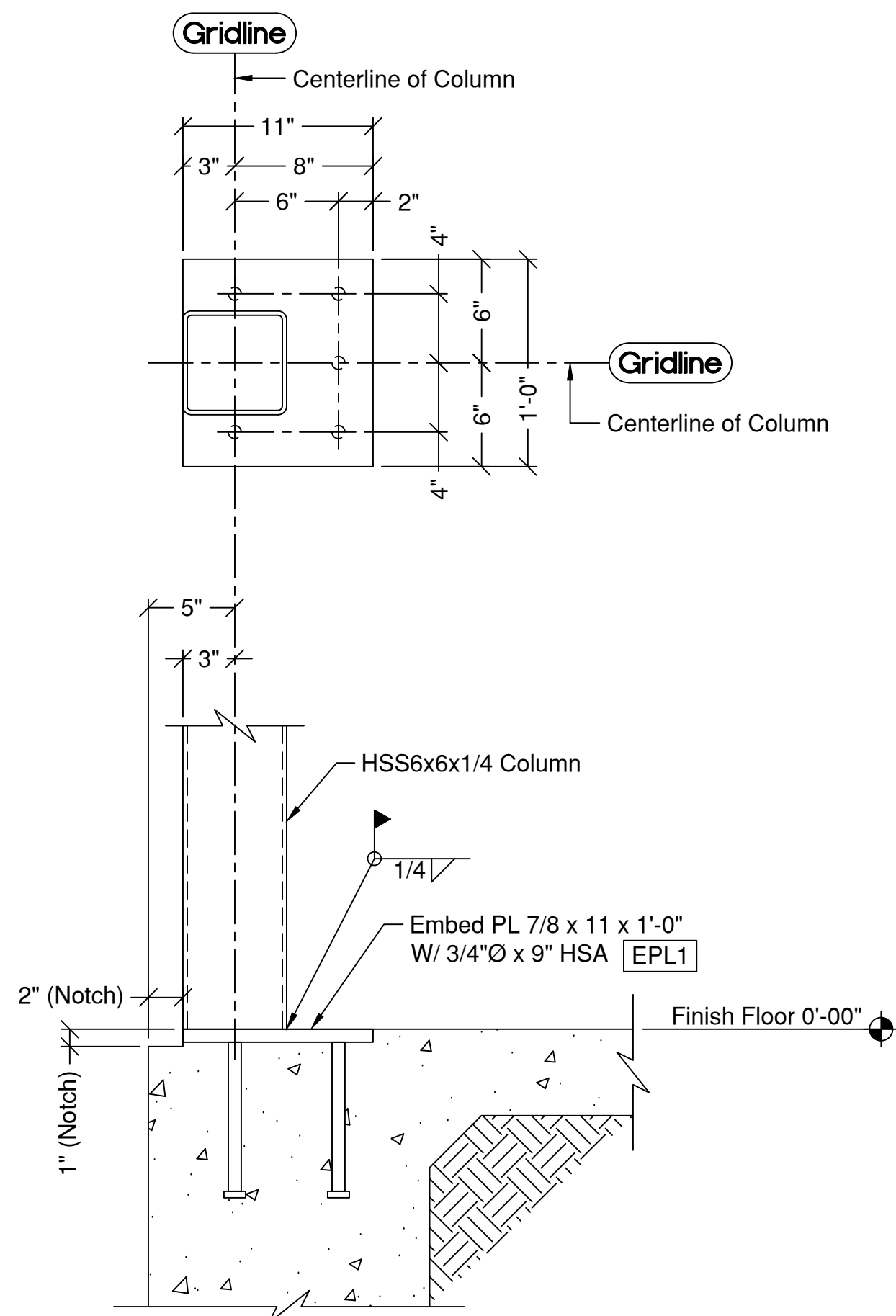
CUSTOMER
JIM Phelps Construction, FL
CEFCO #446
NWC I-10 & Hwy. 331
DeFuniak Springs, FL 32435
FILE NAME: DEFUNIAKSPRINGS446

JOB NO.:	23-2485R0
SCALE:	NTS
DRAWN BY:	CBR
START DATE:	2-2-24
CHECKED BY:	CBR
CHECK DATE:	3-25-24
APPROVAL	FIELD
RELEASE DATE:	RELEASE DATE:
3-11-24	3-28-24

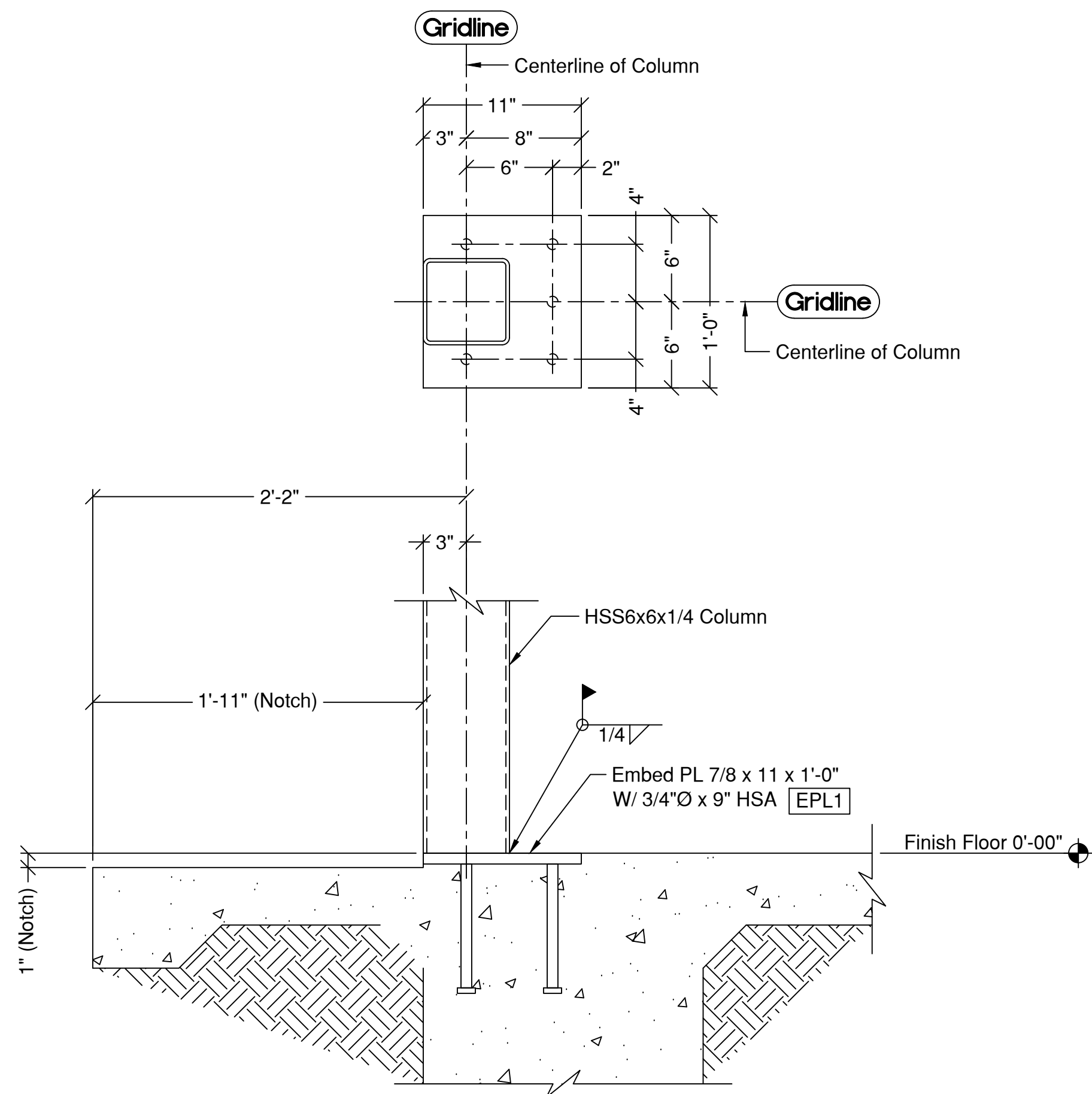
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EMBED SETTING PLAN

SHEET NO.
AB-1.0
REV. NO.
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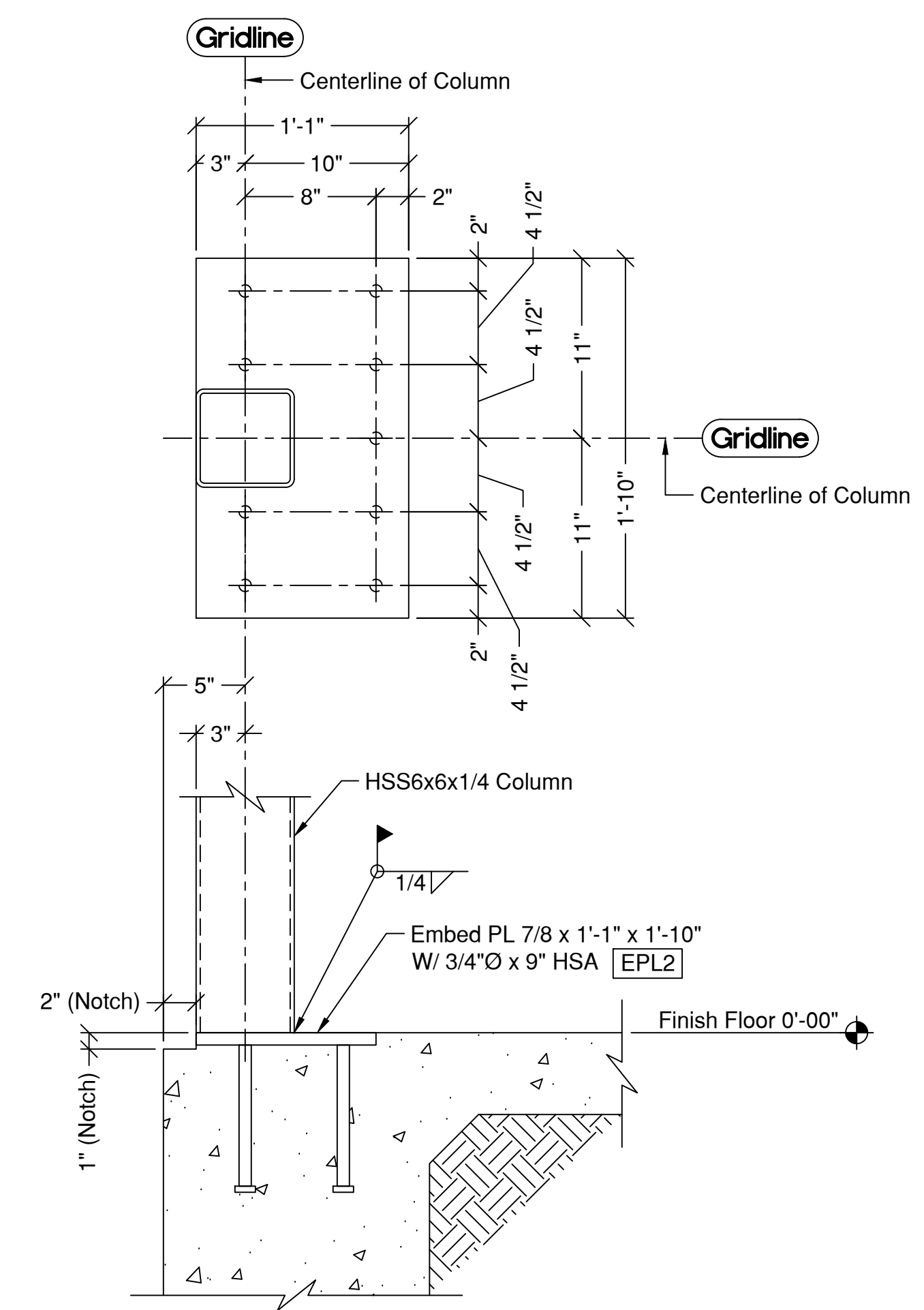
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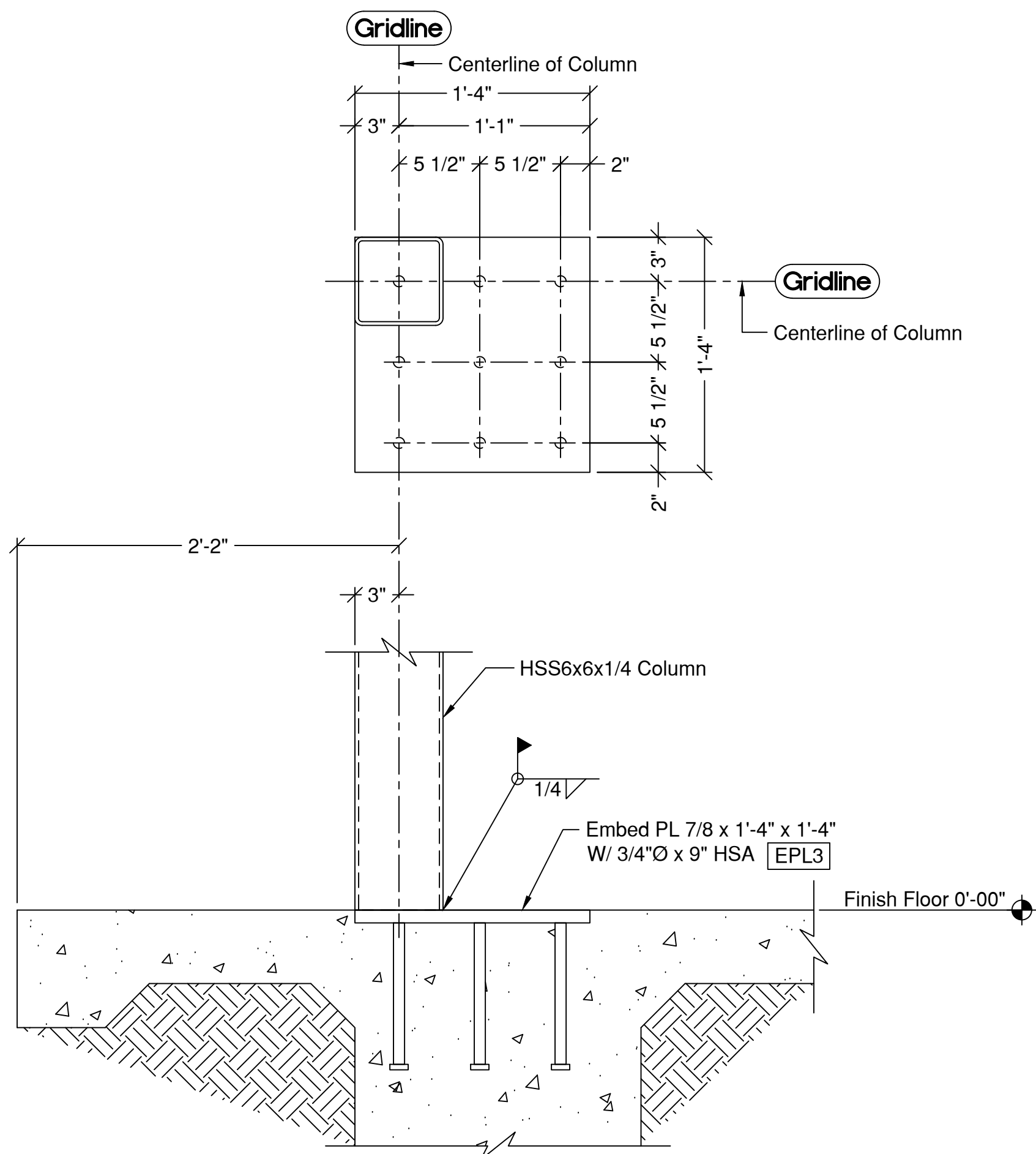
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 AB-1.1/ Re: Base Plate Detail 8/SD1.0
 Re: Foundation Detail 11/SD1.0



2 EMBED PLATE PLACEMENT
 AB-1.1/ Re: Base Plate Detail 8/SD1.0
 Re: Foundation Detail 10/SD1.0




3 EMBED PLATE PLACEMENT
 AB-1.1/ Re: Base Plate Detail 7/SD1.0
 Re: Foundation Detail 11/SD1.0



4 EMBED PLATE PLACEMENT
 AB-1.1/ Re: Base Plate Detail 1/SD1.0
 Re: Foundation Detail 10/SD1.0

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 RELEASED FOR CONSTRUCTION
 FIELD ERECTION SET
 DATE ISSUED: 3-28-24



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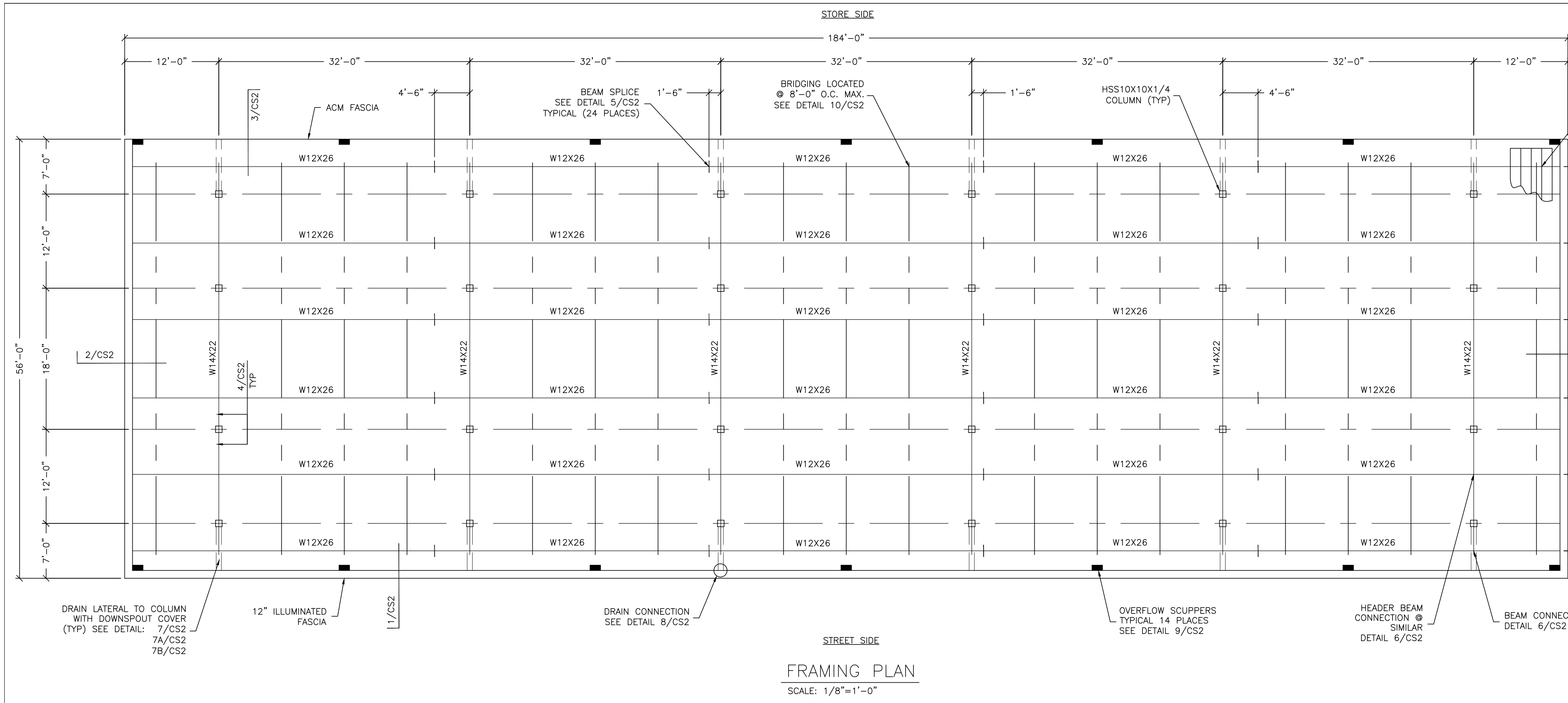
REVISIONS:	
NO.	REMARKS
A	Released For Approval
0	Released For Fabrication

CUSTOMER	
JIM Phelps Construction, FL	
CEFCO #446	
NWC I-10 & Hwy. 331	
DeFuniak Springs, FL 32435	
FILE NAME: DEFUNIAKSPRINGS446	

JOB NO.:	23-2485R0
SCALE:	NTS
DRAWN BY:	CBR
START DATE:	2-2-24
CHECKED BY:	CBR
CHECK DATE:	3-25-24
APPROVAL	FIELD
RELEASE DATE: 3-11-24	RELEASE DATE: 3-28-24

SHEET TITLE:
 EMBED SETTING PLAN
 SECTIONS & DETAILS

SHEET NO.	AB-1.1
REV. NO.	0



FRAMING PLAN
SCALE: 1/8"=1'-0"

CANOPY NOTES

GENERAL NOTES:
 A. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE.
 B. OBSERVATION VISITS TO THE SITE BY THE DESIGN ENGINEER SHALL NEITHER BE CONSIDERED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
 C. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN LIMITS OF DESIGN LOADS.
 D. TYPICAL DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.

1. BUILDING CODE: 2020 FLORIDA BUILDING CODE / 2018 INTERNATIONAL BUILDING CODE
 2. USE GROUP: M, CONSTRUCTION TYPE - IIB
 3. DESIGN LOADS:
 A. ROOF LIVE LOAD: 20 PSF (REDUCIBLE)
 B. CANOPY DEAD LOAD: 9.92 PSF
 C. GROUND SNOW LOAD P_g: 0 PSF
 FLAT ROOF SNOW LOAD P_f: 0 PSF
 RAIN ON SNOW SURCHARGE: 0 PSF IF P_g<20
 EXPOSURE FACTOR C_e: 1.0
 IMPORTANCE FACTOR I_s: 1.0
 THERMAL FACTOR C_t: 1.2
 D. BASIC WIND SPEED: V=140 MPH, V_{osd}=108 MPH
 BUILDING RISK CATEGORY: II
 EXPOSURE: C
 COMPONENT & CLADDING: ASCE 7-16 CHAPTER 30
 ROOF DESIGN PRESSURES (PSF) C&C FIGURE 30.8-1

ZONE 3	ZONE 2	ZONE 1
58	55	39
-55	-55	-35

E. EARTHQUAKE DESIGN:
 IMPORTANCE FACTOR: 1.0
 S_s=0.076g S_d=-0.081g
 S₁=-0.055g S_{d1}=-0.089g
 SITE CLASS: D
 SEISMIC DESIGN CATEGORY: B
 SEISMIC FORCE RESISTING SYSTEM: C.2 STEEL ORDINARY CANTILEVERED COLUMN SYSTEM
 DESIGN BASE SHEAR: 6.63k
 SEISMIC RESPONSE COEFFICIENT: C_s = 0.06
 RESPONSE MODIFICATION FACTOR: R=1.25
 SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

4. FOUNDATION DESIGN:
 ALLOWABLE BEARING PRESSURE: 2000 PSF
 PER GEOTECHNICAL REPORT BY: NOVA,
 DATED: 7 NOVEMBER 2022 (PROJECT NO. 10116-2022203).
 LATERAL EARTH PRESSURE: 100 PSF/FT
 * SITE SOILS SHALL BE PREPARED FOR THE FOUNDATION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT REFERENCED ABOVE.

5. CONCRETE AND REINFORCEMENT:
 A. CONCRETE FOOTINGS (EXPOSURE CLASSES FO, SO, WO, CO) TYPE II CEMENT COMpressive STRENGTH OF f'_c = 3000 p.s.i.
 B. SLAB ON GRADE (BY OTHERS)
 C. CONCRETE DESIGNED USING f'_c = 2500 p.s.i. OR ABOVE SHALL HAVE SPECIAL INSPECTIONS PERFORMED, UNLESS ISOLATED SPREAD FOOTINGS ARE UTILIZED. SEE SPECIAL INSPECTIONS FOR THE CANOPY CONCRETE NOTE.
 D. REBAR: ASTM A615 GRADE 60
 E. STIRRUPS AND TIES SHALL HAVE MINIMUM 4" HOOKS.
 F. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT: CONCRETE EXPOSED TO GROUND-----3" FORMED CONCRETE EXPOSED TO GROUND-----2" FORMED CONCRETE NOT EXPOSED TO GROUND-----1 1/2"
 G. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-SHRINK GROUT COMPLYING WITH ASTM C1107, f'_c=5000p.s.i. AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 H. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING TOP OF FOOTING ELEVATIONS AS REQUIRED FOR UNDERGROUND PLUMBING AND ELECTRICAL.

6. STRUCTURAL STEEL:
 A. ALL STRUCTURAL STEEL SHALL COMPLY WITH AISC "SPECIFICATION FOR THE DESIGN OF STRUCTURAL STEEL FOR BUILDINGS" 15TH EDITION.
 B. AISC "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, 4.4.2, AND 7.15.
 C. AISC "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS".
 D. STRUCTURAL STEEL GRADES:
 STEEL BEAMS ASTM A992 GRADE 50 F_y = 50,000 psi
 HSS SQUARE & RECTANGLES ASTM500 GRADE C F_y = 50,000 psi
 HSS ROUND COLUMNS F_y = 46,000 psi
 PIPE ASTM A53 GRADE B F_y = 35,000 psi
 BASE PLATES, CAP PLATES AND CAP PLATE STIFFENERS F_y = 50,000 psi
 ANCHORS ASTM A36 F_y = 36,000 psi
 E. ALL BOLTED CONNECTIONS SHALL BE ASTM A307 BOLTS UNLESS OTHERWISE SPECIFIED (NO SPECIAL INSPECTION REQUIRED).
 F. ALL BOLTED CONNECTIONS SHALL BE "SNUG-TIGHT", UNLESS NOTED OTHERWISE IN ACCORDANCE WITH RSSC.
 G. METAL PAN DECK SHALL BE 20ga ASTM A653 GRADE 40.

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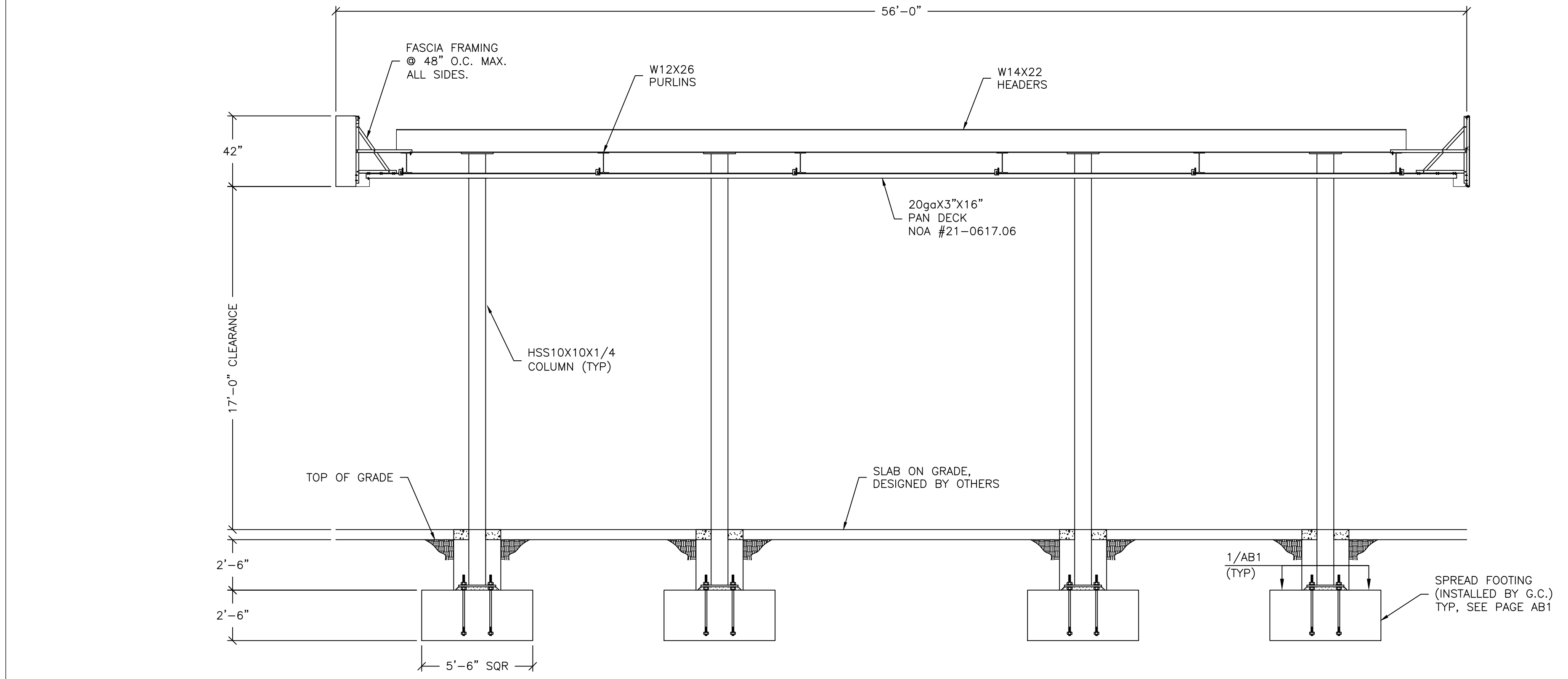
DRAWING DESCRIPTION
 CANOPY STRUCTURAL
 NOTES AND PLANS

JOB LOCATION
 CEFCO #4446
 HWY 331 S
 DEFUNIACK SPRINGS, FL

ENGINEER SEAL
VICTOR M. HERRERA
 LICENSE
 No 94277
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

CUSTOMER	FIKES WHOLESALE, INC.	
	NO.	DESCRIPTION:
DRAWN BY:	M. KOVAL	
	V. HERRERA, PE	
CHECKED BY:	O4-04-2023	
	DATE:	

JOB NO.
23-1624R0
 DWG. NO.
CS1
 OF 3 SHEETS



SECTION/ELEVATION
SCALE: 1/4"=1'-0"

SPECIAL INSPECTIONS FOR THE CANOPY

SPECIAL INSPECTIONS FOR THE CANOPY SHALL BE PROVIDED BY THE OWNER PER CHAPTER 17 OF THE IBC.

THE FOLLOWING SYSTEMS ARE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF THE IBC CHAPTER 17.

A. COLUMNS	D. PURLIN BEAMS
B. COLUMN BASE PLATE	E. BEAMS
C. FOOTINGS UNLESS EXEMPT	

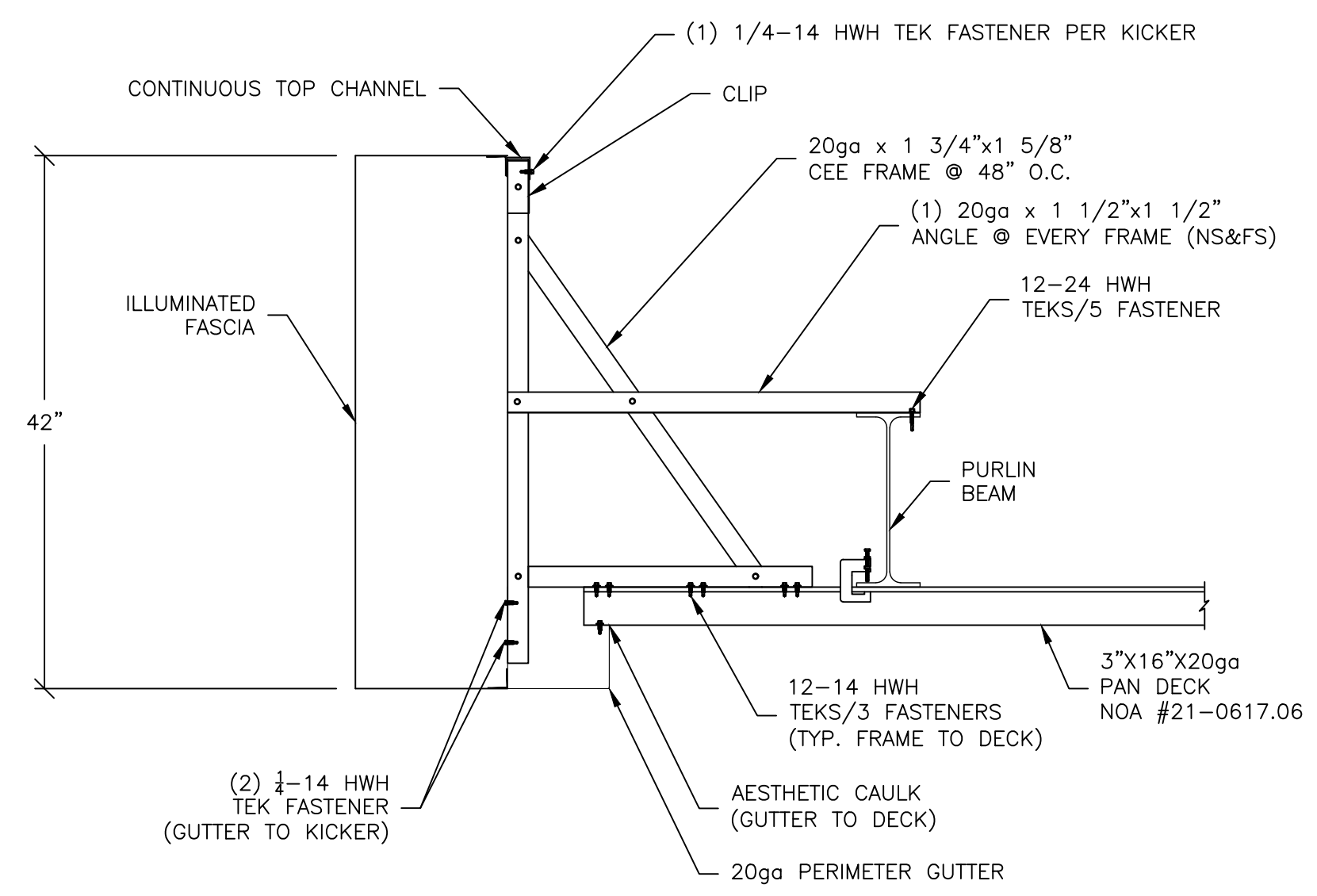
SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK.

- WELDING - PRIOR TO WELDING (TABLE N5.4-1, 360-16)
 2. DURING WELDING (TABLE N5.4-2, 360-16)
 3. AFTER WELDING (TABLE N5.4-3, 360-16)
 4. NONDESTRUCTIVE TESTING (SECTION N5, 360-16)
 PER IBC 1705.2. SPECIAL INSPECTION IS NOT REQUIRED WHERE WELDING IS PERFORMED IN AN APPROVED SHOP. JIMCO SALES AND MANUFACTURING IS AN AISC APPROVED FABRICATOR (218031061-10INIT).
- BOLTING - PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16): NOT REQUIRED IF ONLY SNUG TIGHT JOINTS ARE SPECIFIED ABOVE.
- FOUNDATIONS - PER IBC 1705.3; EXCEPTION 1 - SPECIAL INSPECTION IS NOT REQUIRED FOR ISOLATED SPREAD CONCRETE FOOTINGS FULLY SUPPORTED ON EARTH OR ROCK. *THIS EXCEPTION DOES NOT APPLY IN THE STATE OF NEVADA.*
 *SPECIAL INSPECTIONS SHALL BE PERFORMED DURING INSTALLATION AND TESTING OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS AS REQUIRED BY TABLE 1705.8.
- ANCHOR BOLTS - PERIODIC SPECIAL INSPECTION OF ANCHORS CAST IN CONCRETE REQUIRED PER IBC TABLE 1705.3, ITEM 3
- STRUCTURAL OBSERVATIONS: NONE REQUIRED

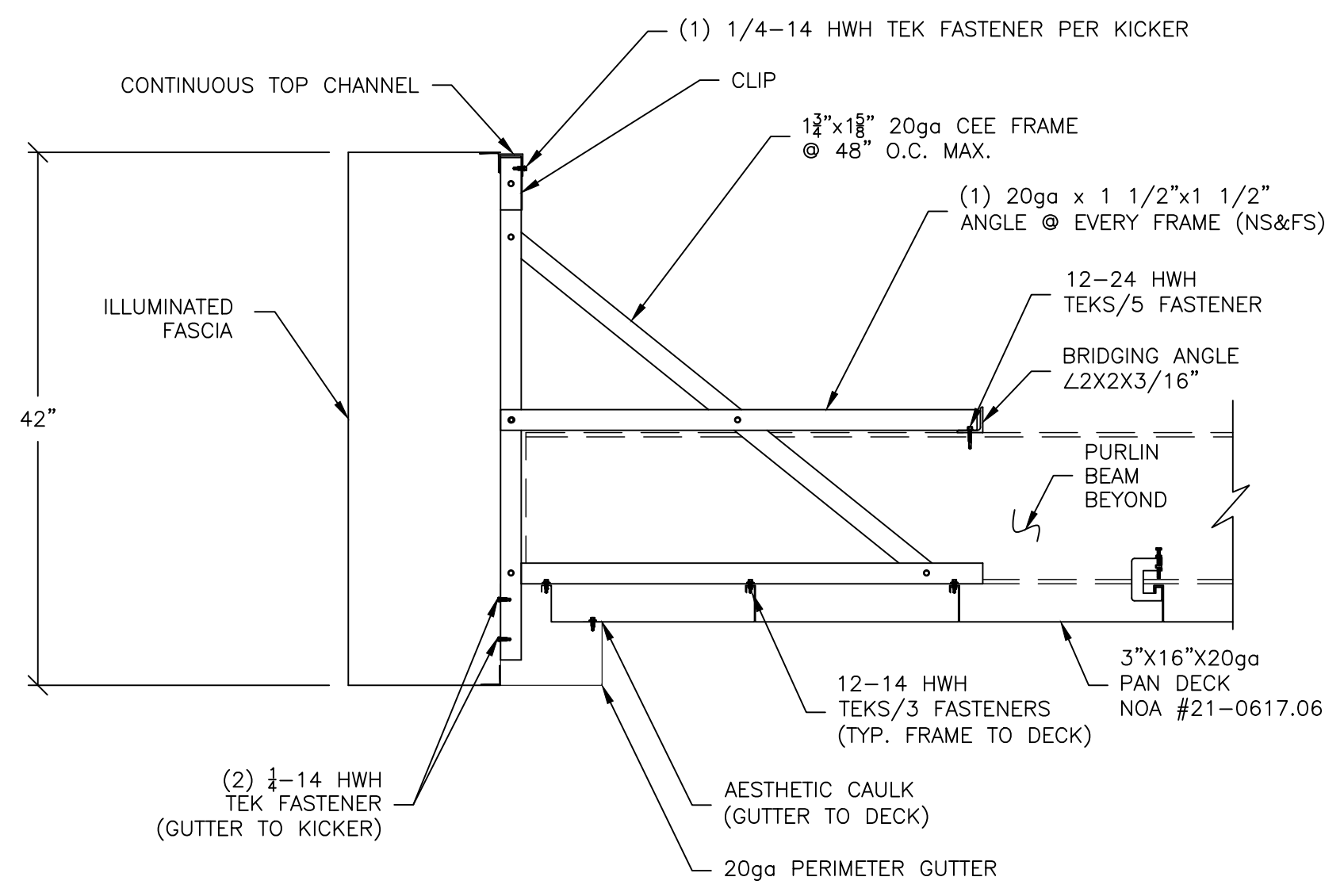
SEISMIC FORCE RESISTING SYSTEM (SFRS)

A. REFER TO AISC 341-16 SECTION A4 AND ASCE 7-16.
 B. DESIGNATION OF SFRS: C.2. STEEL ORDINARY CANTILEVER COLUMN SYSTEMS (ASCE 7-16 TABLE 12.2-1) SEE AISC 341-16 SECTION E5 (OCCS).
 C. R = 1.25, C_s = 0.06
 D. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
 E. MEMBERS AND CONNECTIONS THAT ARE PART OF THE SFRS:
 1. COLUMNS 4. PURLIN BEAMS
 2. COLUMN BASE CONNECTION 5. BEAMS
 3. FOOTINGS
 F. PROTECTED ZONES: N/A
 G. SEE DETAILS AND NOTE FOR CONNECTION CONFIGURATIONS, MATERIALS SPECIFICATIONS AND SIZES.
 H. WELD FILLER MATERIALS FOR WELDS PART OF THE SFRS:
 1. YIELD STRENGTH - 58 KSI MIN
 2. TENSILE STRENGTH - 70 KSI MIN
 3. ELONGATION - 22% MIN
 4. CVN TOUGHNESS - 20 FT-LB MIN @ 0° F
 SEE DETAILS AND NOTES FOR OTHER WELDING REQUIREMENTS
 J. DEMAND CRITICAL WELDS - N/A
 K. LOWEST ANTICIPATED SERVICE TEMPERATURE - 0° F

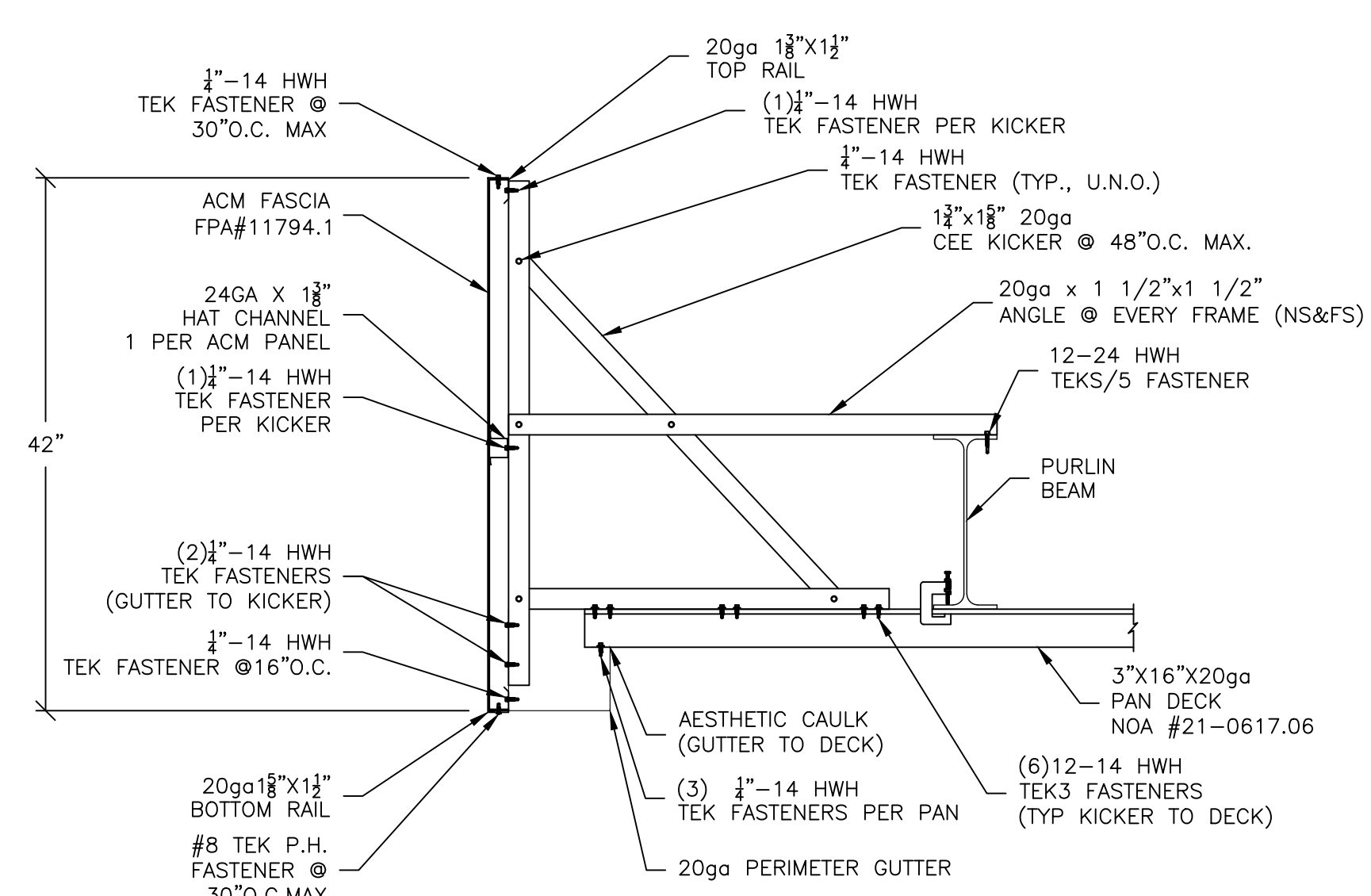
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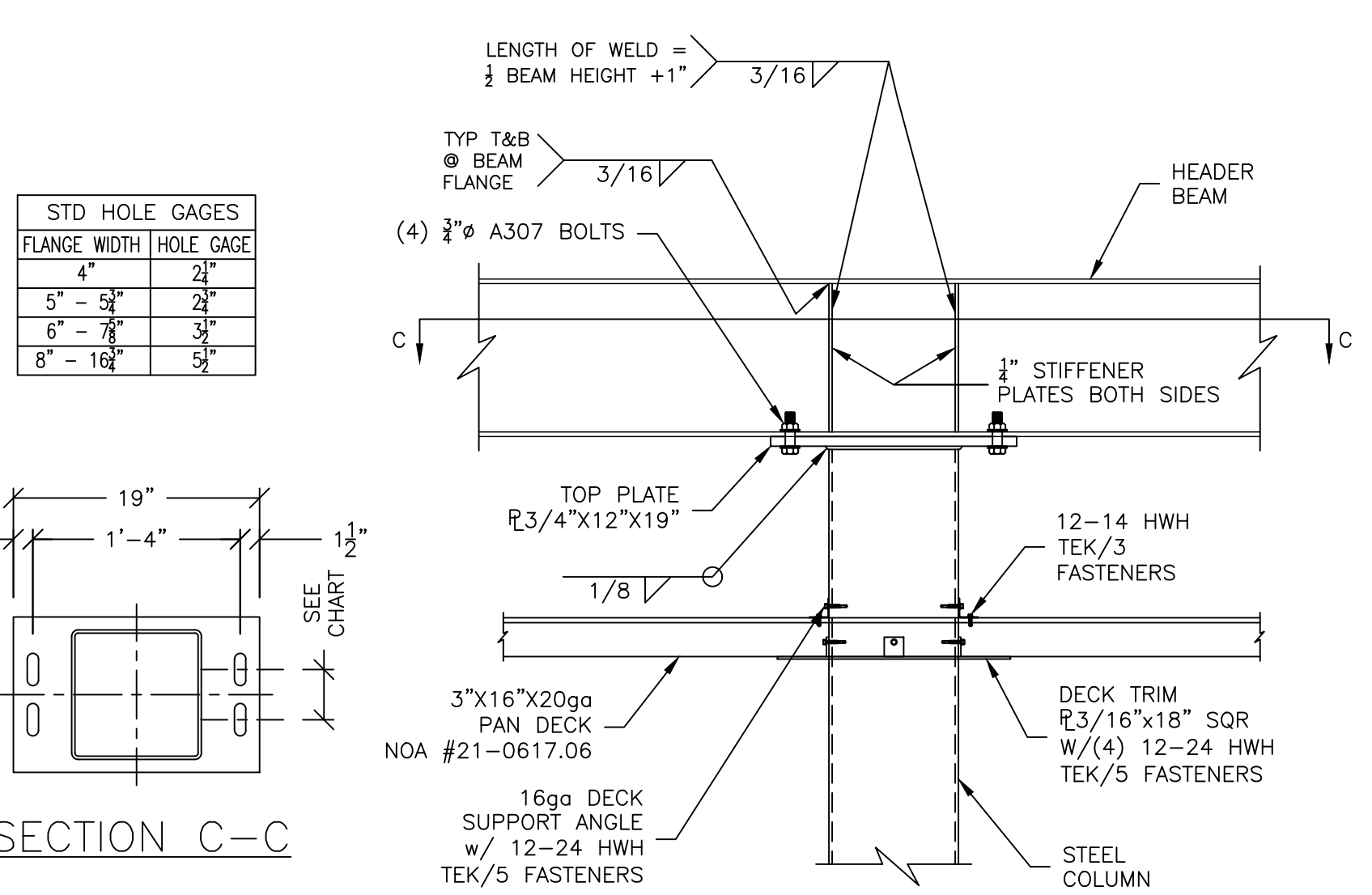
1 SIDE FASCIA DETAIL
SCALE: 1"=1'-0"



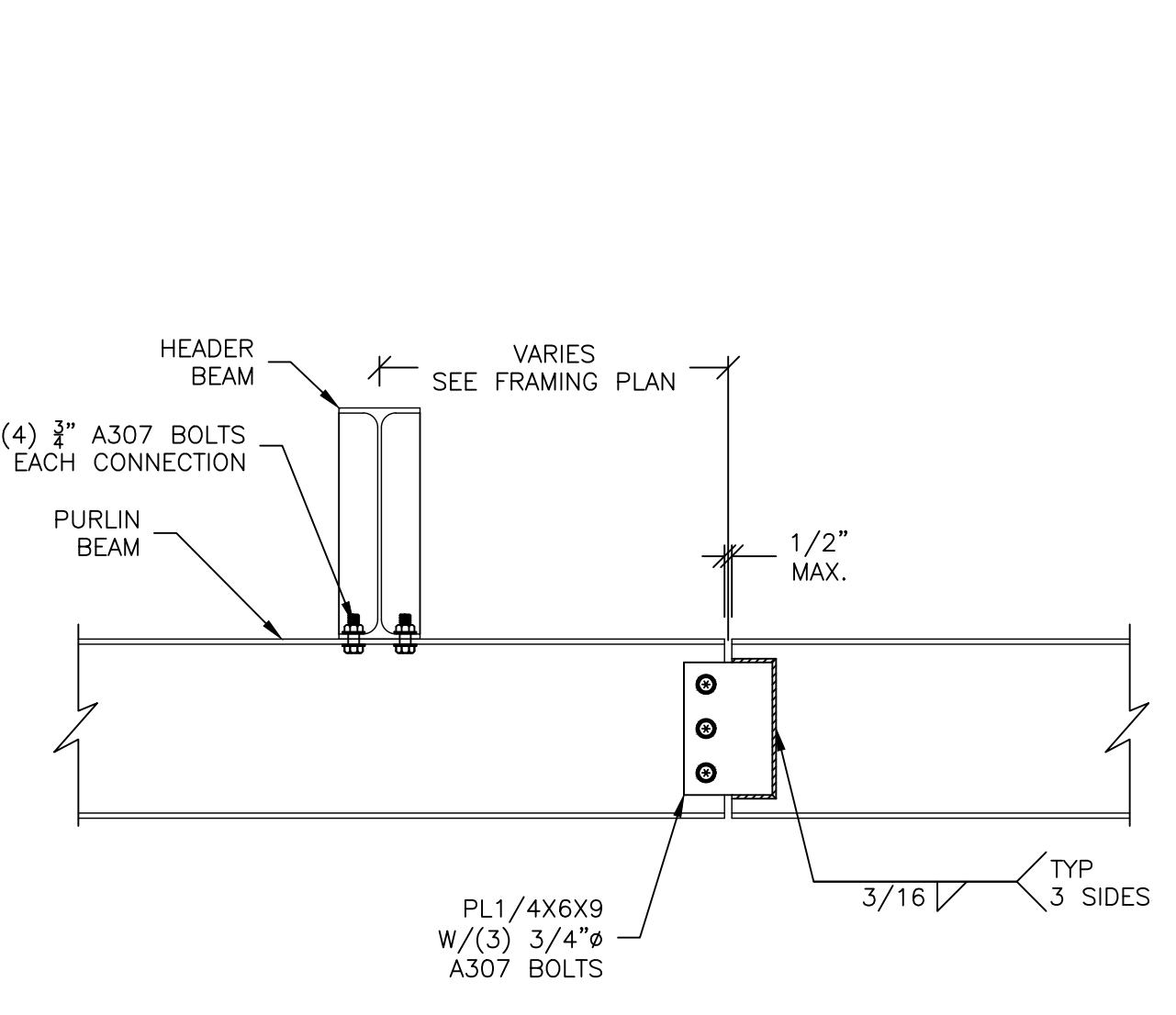
2 END FASCIA DETAIL
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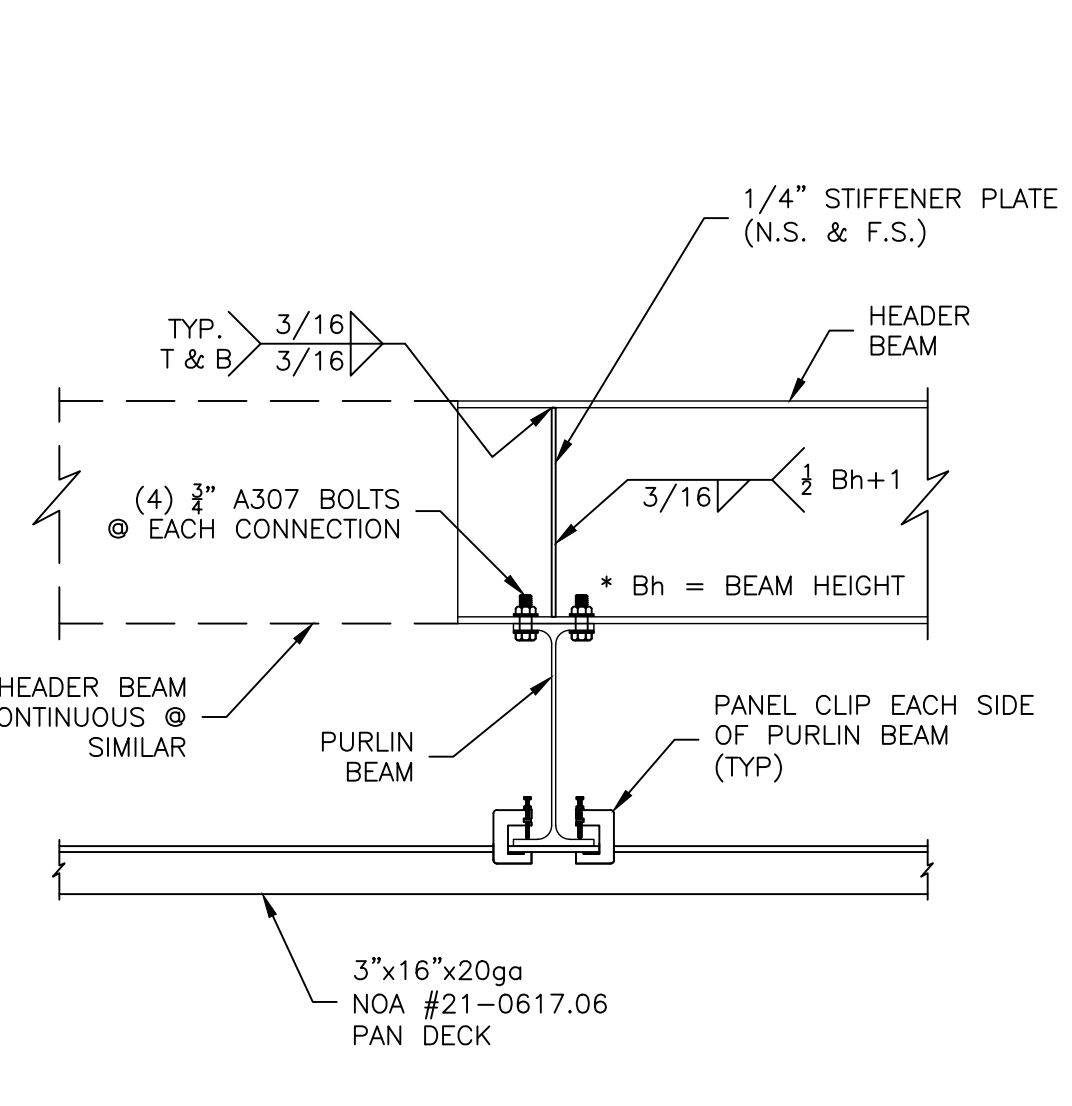
3 SIDE FASCIA DETAIL
SCALE: 1"=1'-0"



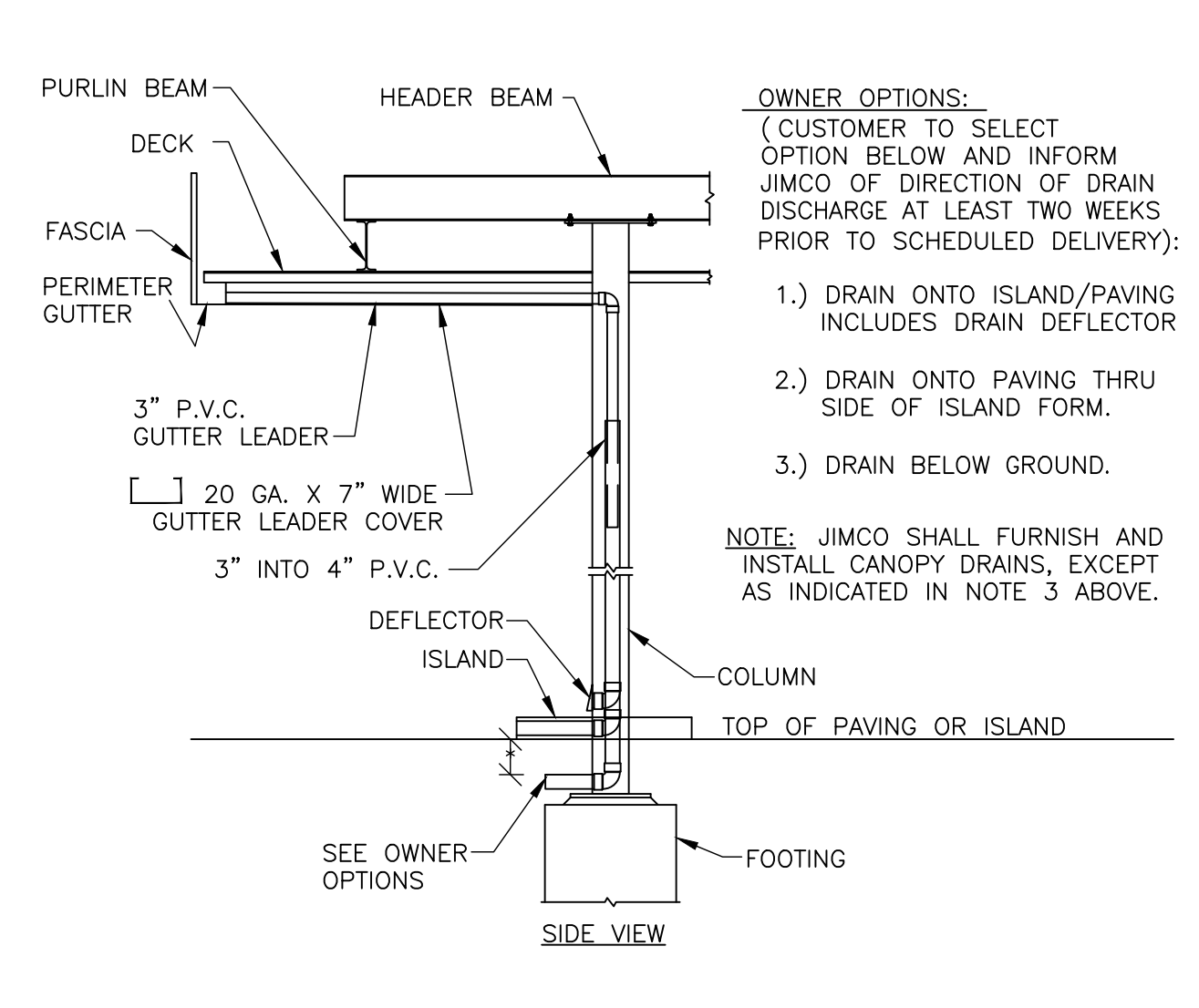
4 COLUMN/BEAM CONNECTION DETAIL
SCALE: 1"=1'-0"



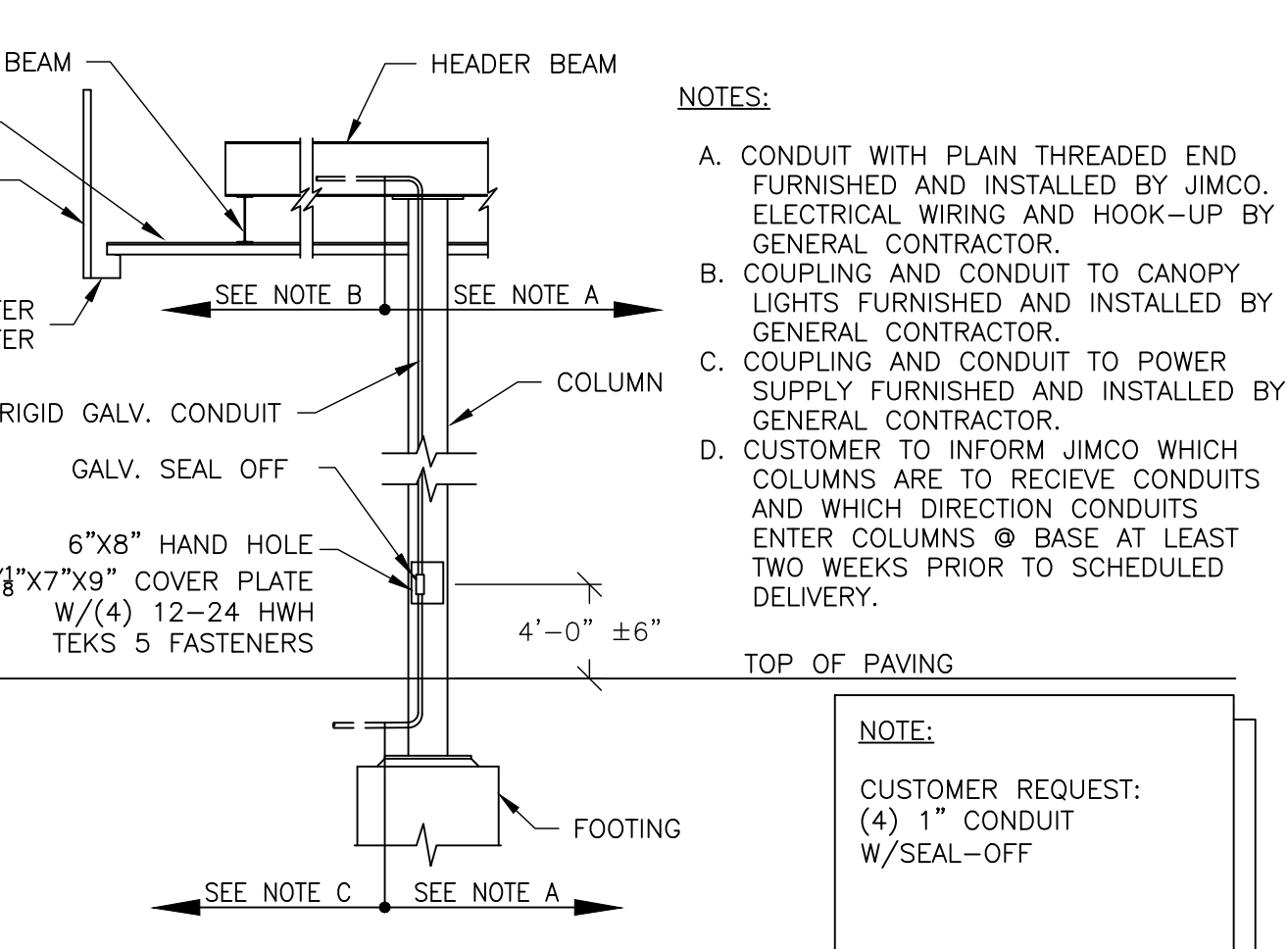
5 BEAM SPLICE DETAIL
SCALE: 1"=1'-0"



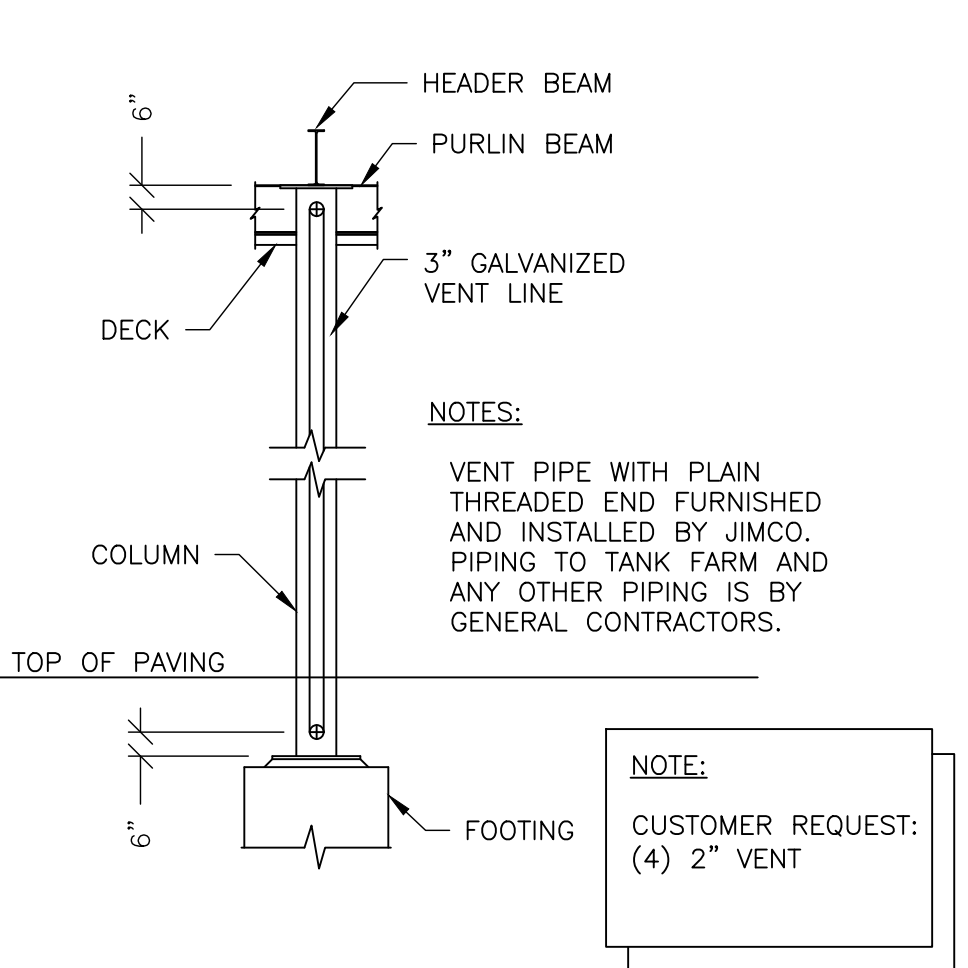
6 BEAM CONNECTION DETAIL
SCALE: 1"=1'-0"



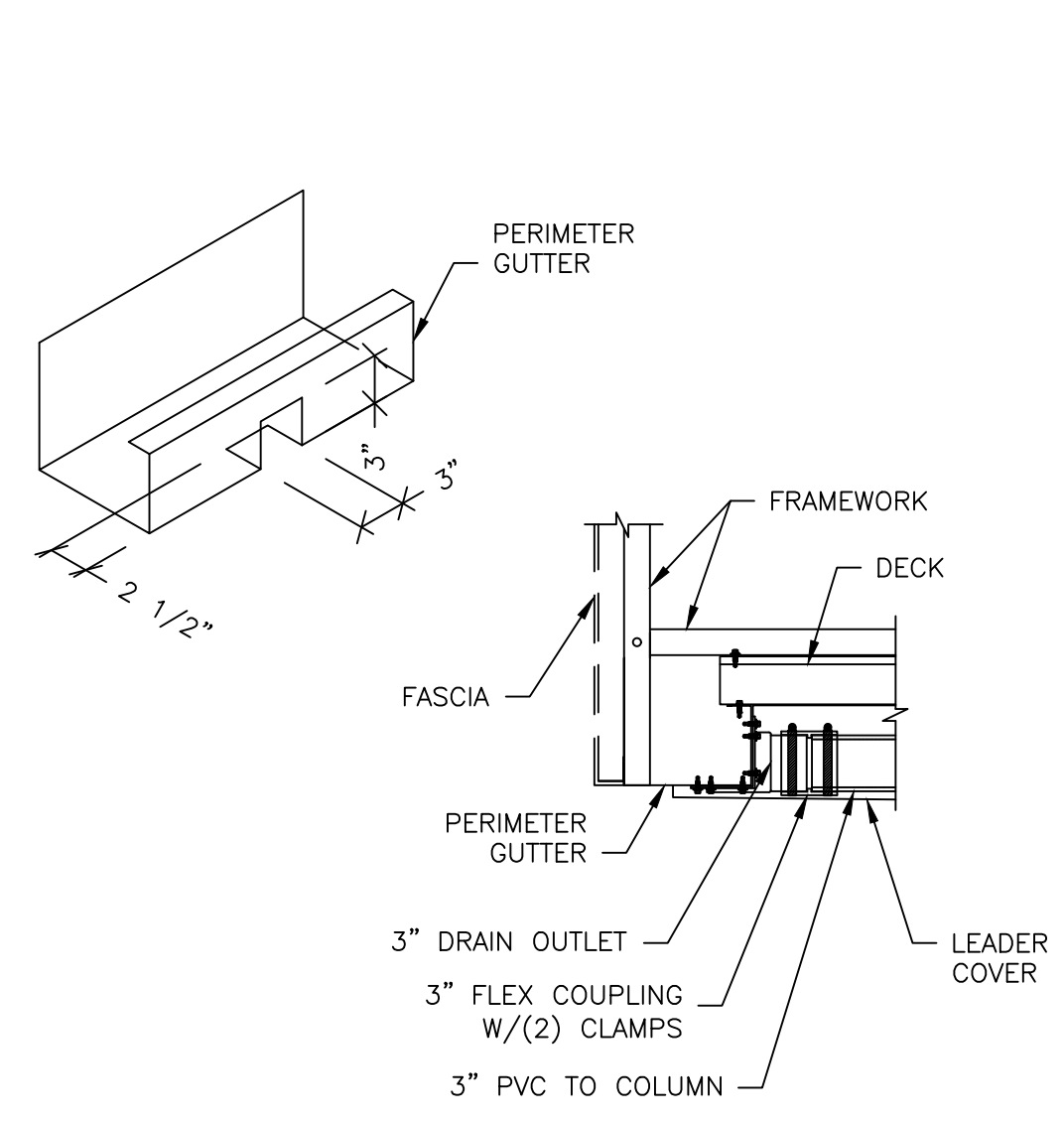
7 COLUMN DRAIN DETAIL
SCALE: 3"=1'-0"



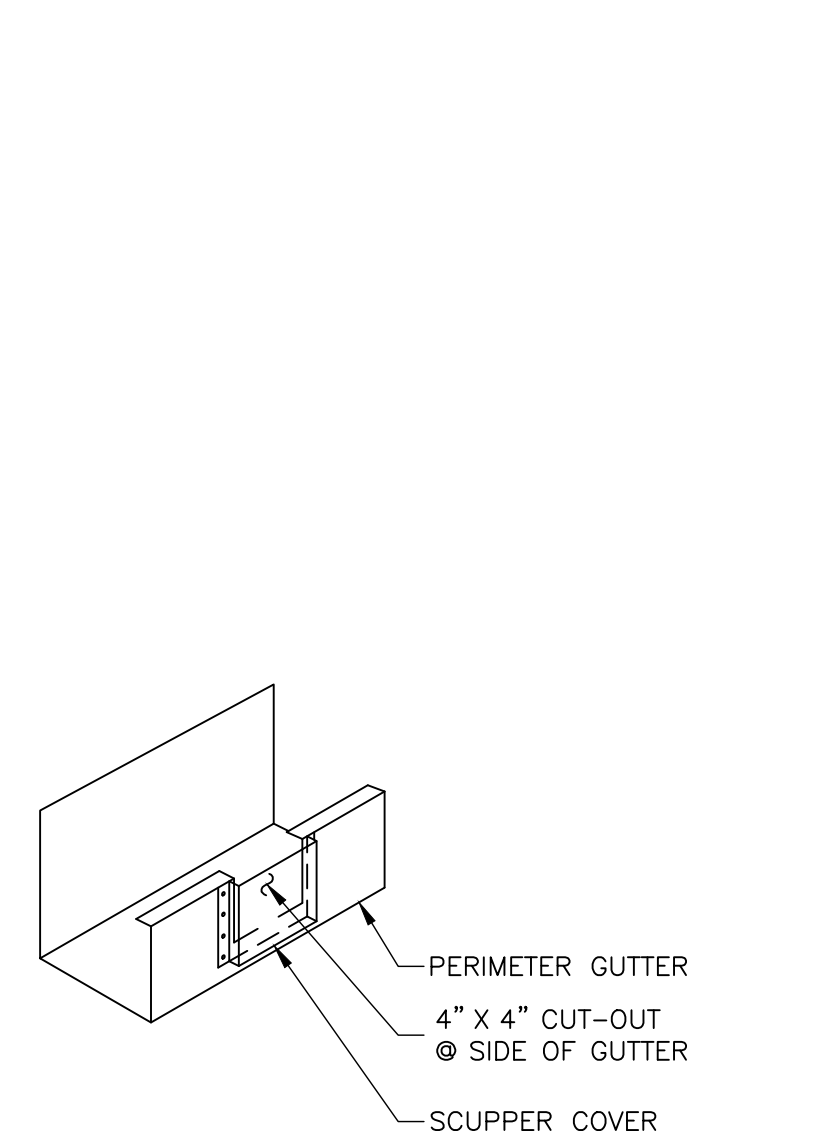
7A INTERNAL CONDUIT DETAIL
SCALE: 3"=1'-0"



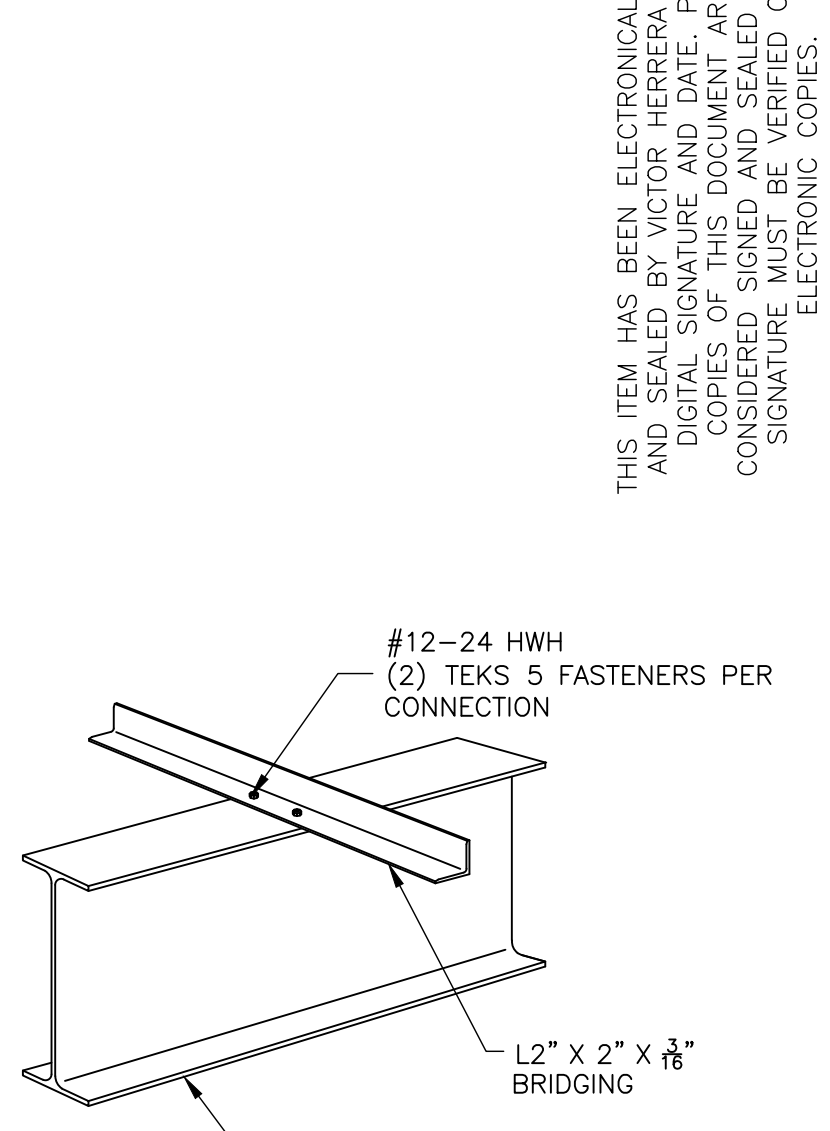
7B INTERNAL PIPE VENT DETAIL
SCALE: 3"=1'-0"



8 DRAIN CONNECTION DETAIL
SCALE: 1"=1'-0"



9 OVERFLOW SCUPPER DETAIL
SCALE: 1"=1'-0"



10 PURLIN BRIDGING DETAIL
SCALE: 1"=1'-0"

FLANGE WIDTH	HOLE GAGE
4"	2 1/4"
5" - 5 1/2"	2 1/2"
6" - 7 1/2"	3"
8" - 10"	3 1/2"

OWNER OPTIONS:
(CUSTOMER TO SELECT OPTION BELOW AND INFORM JIMCO OF DIRECTION OF DRAIN DISCHARGE AT LEAST TWO WEEKS PRIOR TO SCHEDULED DELIVERY):

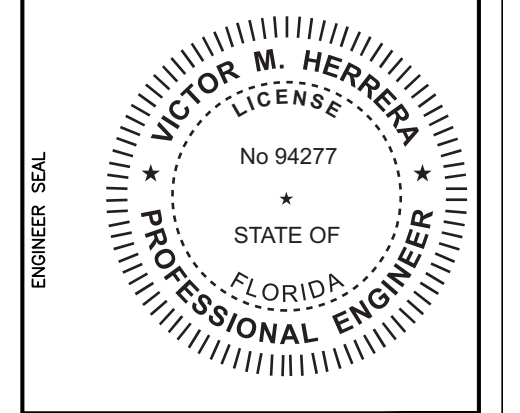
- 1.) DRAIN ONTO ISLAND/PAVING INCLUDES DRAIN DEFLECTOR
- 2.) DRAIN ONTO PAVING THRU SIDE OF ISLAND FORM.
- 3.) DRAIN BELOW GROUND.

NOTE: JIMCO SHALL FURNISH AND INSTALL CANOPY DRAINS, EXCEPT AS INDICATED IN NOTE 3 ABOVE.

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DRAWING DESCRIPTION	CANOPY STRUCTURAL SECTIONS AND DETAILS
JOB LOCATION	CEFCO #4446 HWY 331 S DEFUNIACK SPRINGS, FL
CUSTOMER	FIKES WHOLESALE, INC.
DRAWN BY:	M. KOVAL
CHECKED BY:	V. HERRERA, PE
DATE:	04-04-2023
NO. DESCRIPTION:	REVISIONS
DATE:	
JOB NO.	23-1624R0
DWG. NO.	CS2
OF 3 SHEETS	



Plan Notes

Structural Steel Framing Notes

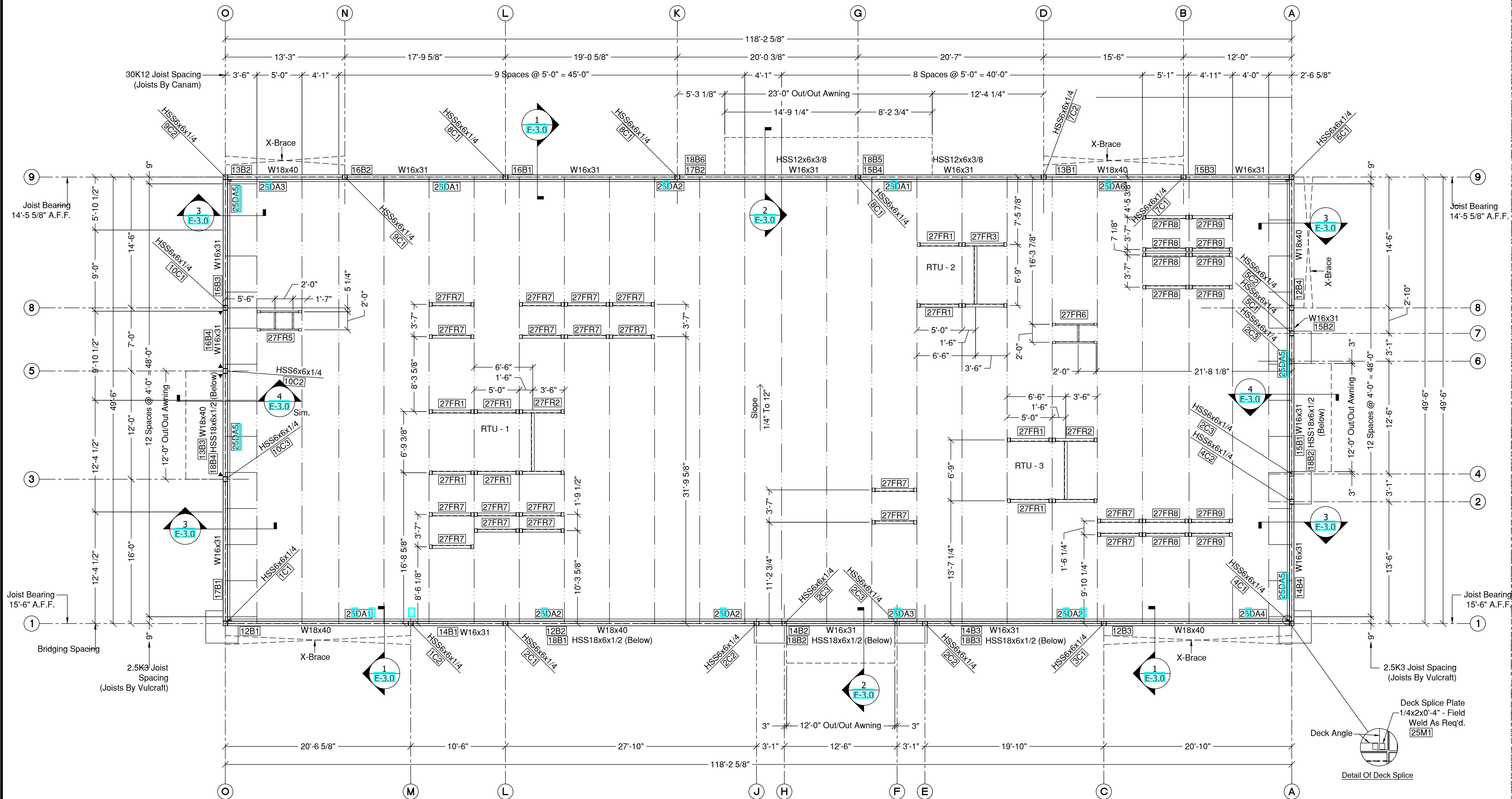
1. Structural Steel Rolled Shapes Shall Conform To ASTM A-992, Grade 50, FY = 50 KSI
2. Square And Rectangular Tubing Shall Conform To ASTM A500, Grade B, FY = 46 KSI
3. Steel Pipe Shall Conform To ASTM A53, Grade B, FY = 35 KSI
4. Channels, Angles And Plates ASTM A36
5. Structural Steel Design Shall Be Done In Accordance With AISC "Manual Of Steel Construction".
6. All Structural Steel To Be Painted One Shop Coat Of Rust Inhibitive Paint Or Equal To Rustoleum
7. Structural Steel Fabrications And Erection Shall Be Done In Accordance With The AISC Latest Code Of Standard Practice For Steel Buildings And Bridges

Welding

1. Structural Welding Shall Conform To AWS D1.1
2. Structural Light Gauge Welding Shall Conform To AWS 1.3
3. Structural Welding Shall Be Done In The Shop Of A Licensed Fabricator
4. All Structural Field Welding Shall Be Performed By A Certified Welder.
5. AWS E70XX Electrodes Shall Be Used For All Structural Welds, Except For Special Clips.
6. All Structural Welds To Be 1/4" Fillet, Full Penetration Welds, Unless Otherwise Specified

Bolts

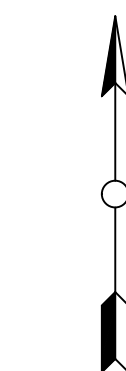
1. All Bolts Shall Be ASTM A325 High Strength Bolts Unless Noted Otherwise On These Drawings.
2. High Strength Bolts Shall Be Installed Using The "Turn Of Nut" Tightening Method. Bolts Shall Be Brought To The Snug Tight Condition And Then Tightened 1/3 Turn



► = Moment Connection - See Details On 7/E-3.0 U.N.O

Roof Framing Plan

Plan North



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 FIELD ERECTION SET
 DATE ISSUED: 3-28-24

REVISIONS:

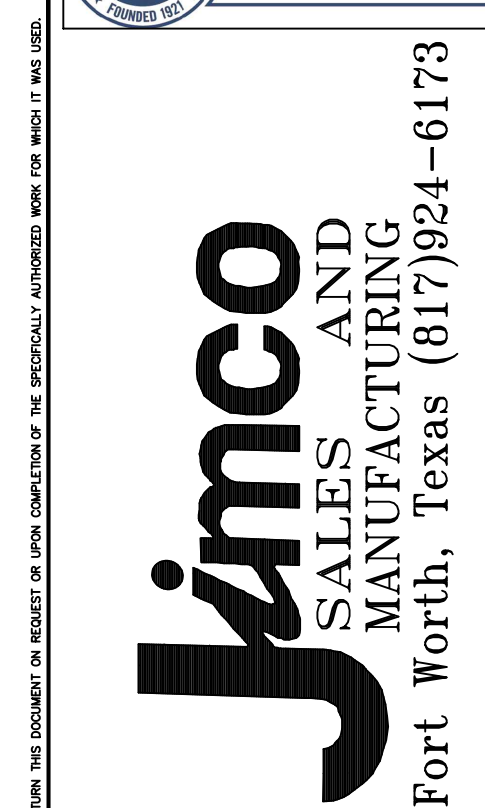
NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
0	3-28-24	Released For Fabrication

CUSTOMER
 JIM Phelps Construction, FL
 CEFCO #446
 NWC I-10 & Hwy. 331
 DeFuniak Springs, FL 32435

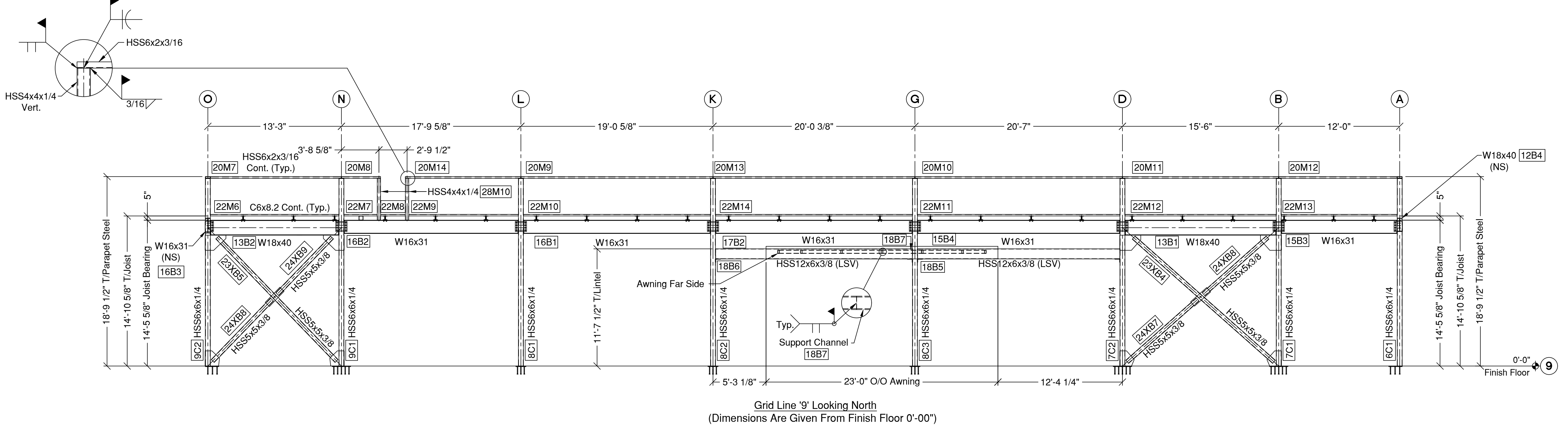
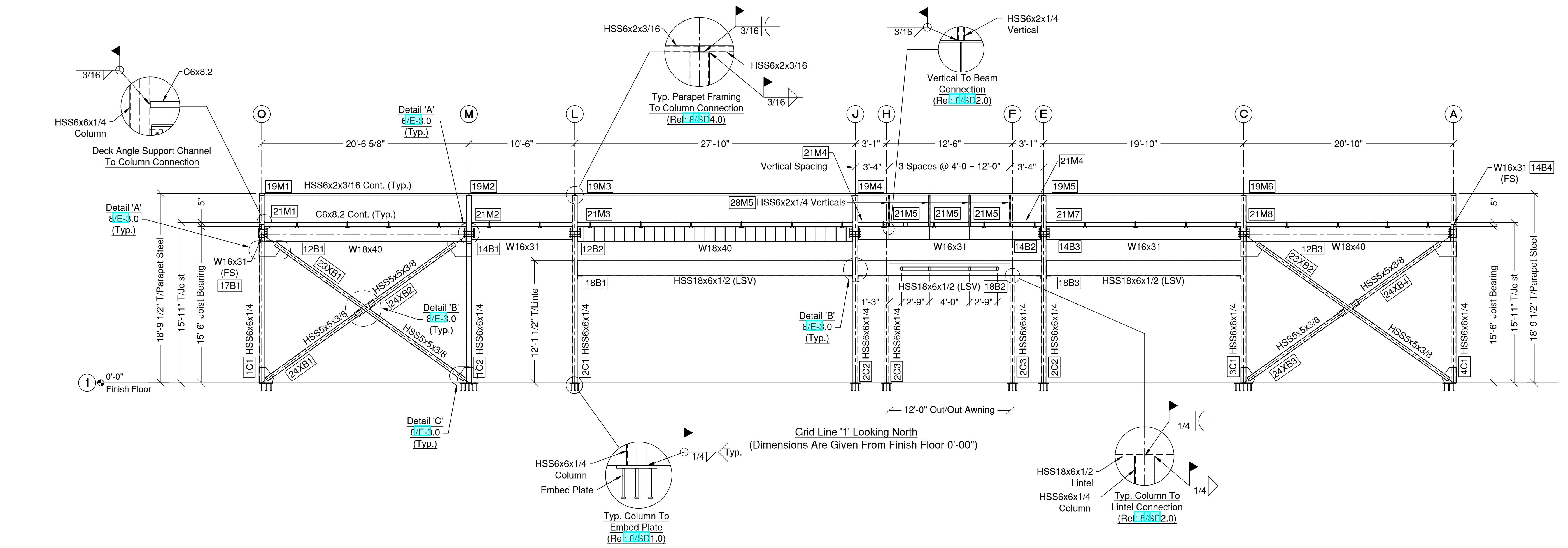
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SCALE:	NTS
DRAWN BY:	CBR
START DATE:	2-2-24
CHECKED BY:	CBR
CHECK DATE:	3-25-24
APPROVAL:	FIELD
RELEASE DATE:	3-28-24

SHEET TITLE:
 ROOF FRAMING PLAN

SHEET NO.
E-1.0
 REV. NO.
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NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
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CUSTOMER
JIM Phelps Construction, FL
CEFCO #446
NWC I-10 & Hwy. 331
DeFuniak Springs, FL 32435

JOB NO.:	23-2485R0
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FIELD RELEASE DATE:	3-28-24

SHEET TITLE:
ELEVATIONS @ GRIDLINES

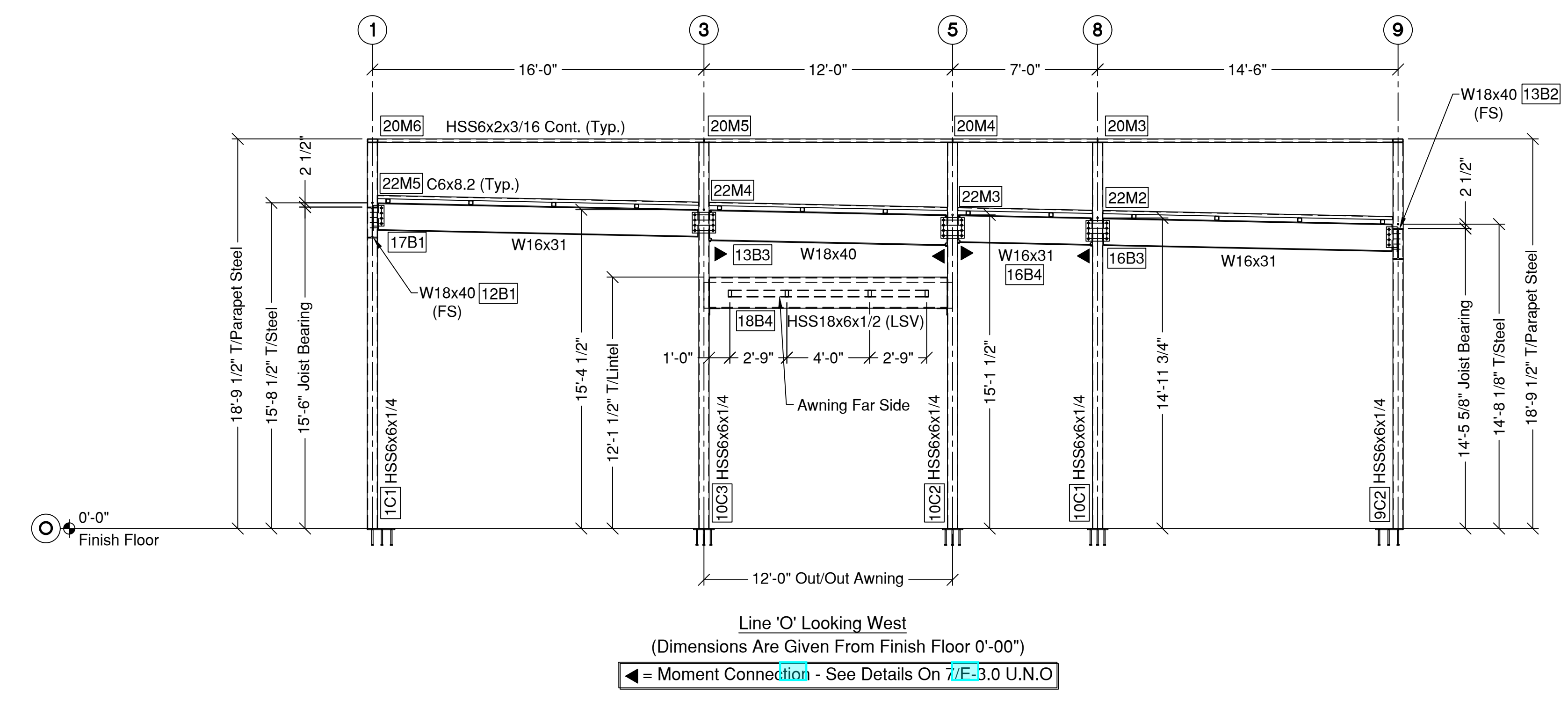
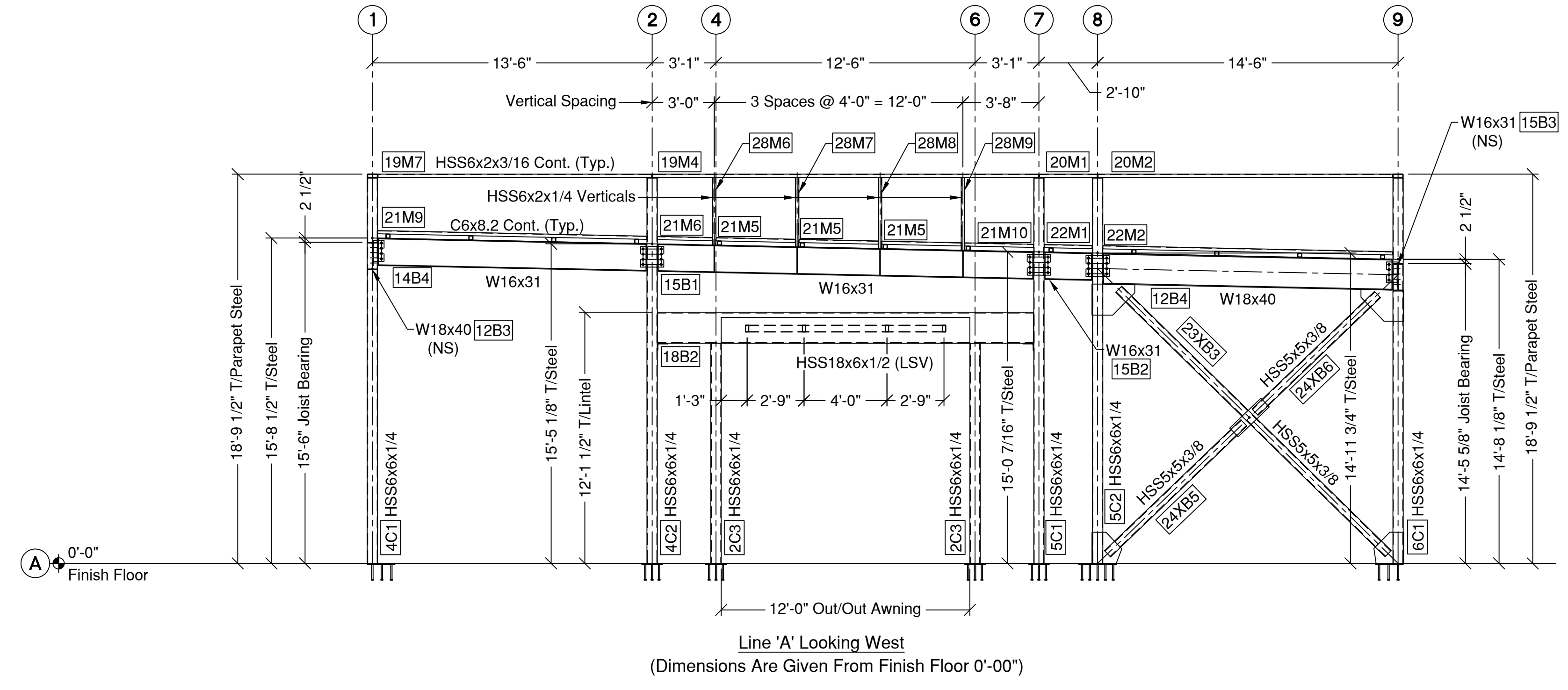
SHEET NO.	E-2.0
REV. NO.	0

JIMCO SALES AND MANUFACTURING
RELEASED FOR CONSTRUCTION
FIELD ERECTION SET
DATE ISSUED: 3-28-24

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 Fort Worth, Texas (817)924-6173



REVISIONS:

NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
0	3-28-24	Released For Fabrication

CUSTOMER
JM Phelps Construction, FL
 CEFCO #446
 NWC I-10 & Hwy. 331
 DeFuniak Springs, FL 32435
 FILE NAME: DEFUNIAKSPRINGS446

JOB NO.:	23-2485R0
SCALE:	NTS
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APPROVAL	FIELD
RELEASE DATE:	RELEASE DATE:
3-11-24	3-28-24

SHEET TITLE:
**ELEVATIONS @
 GRIDLINES**

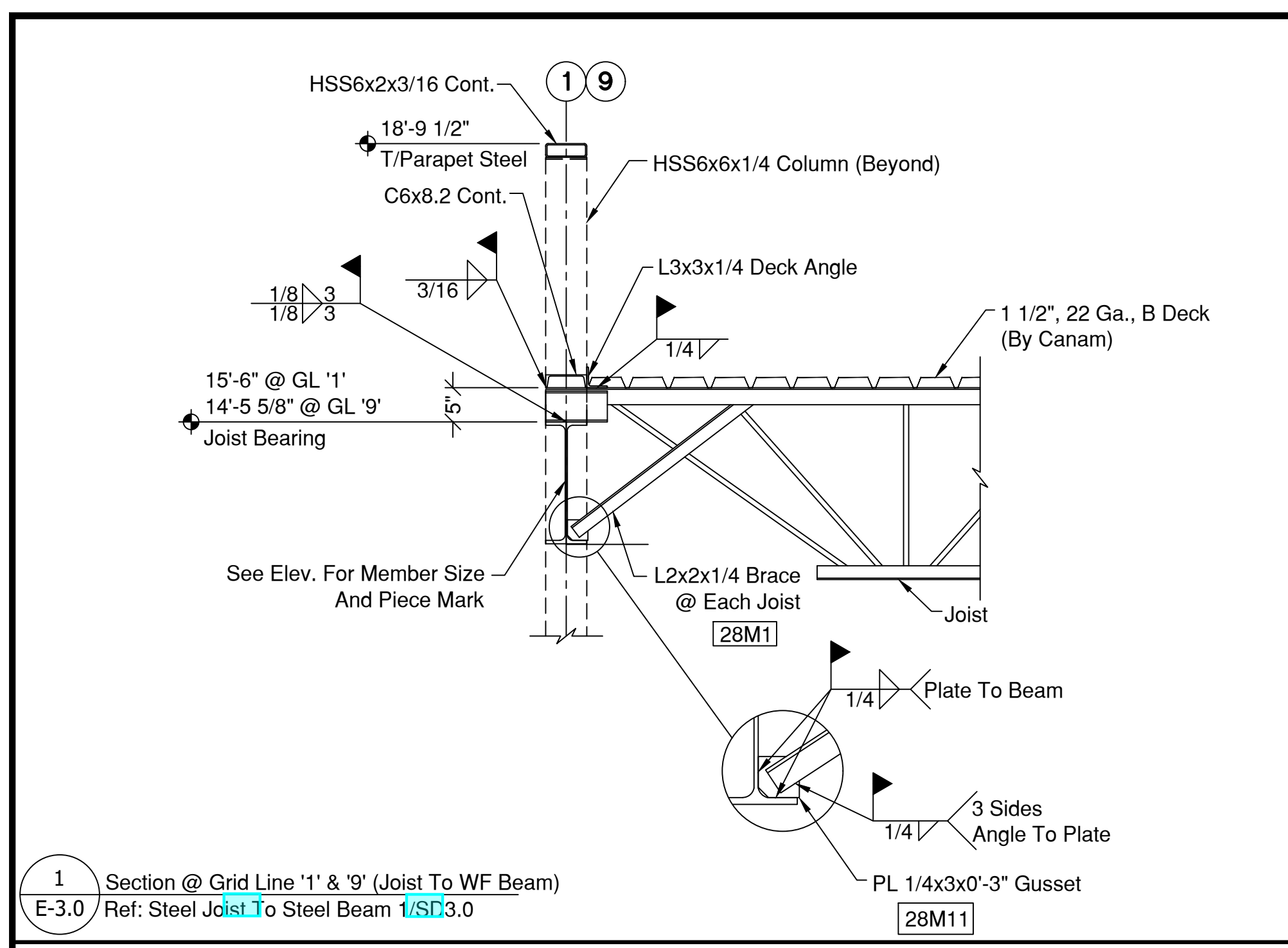
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JIMCO SALES AND MANUFACTURING
 RELEASED FOR CONSTRUCTION
 FIELD ERECTION SET
 DATE ISSUED: 3-28-24

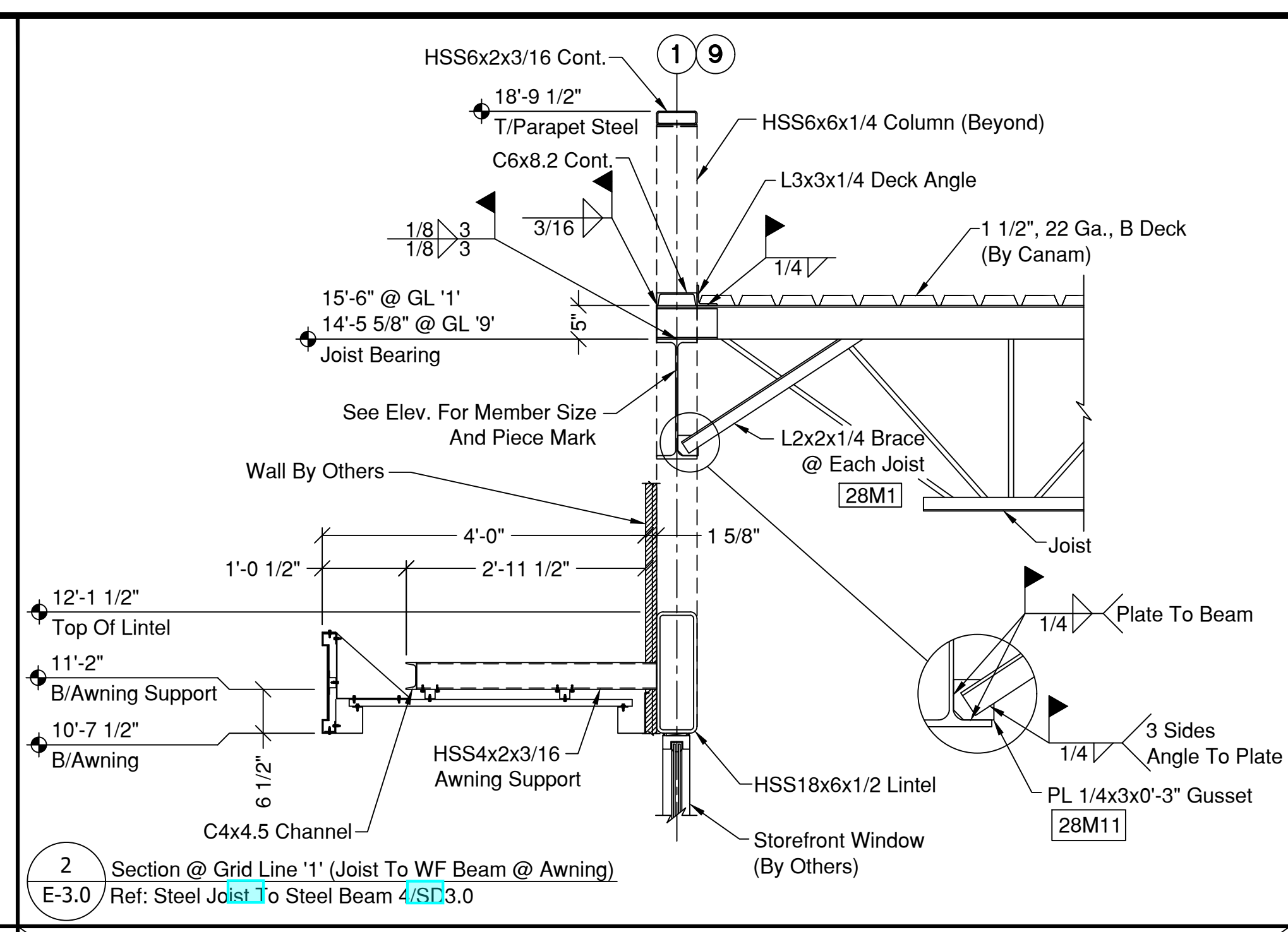
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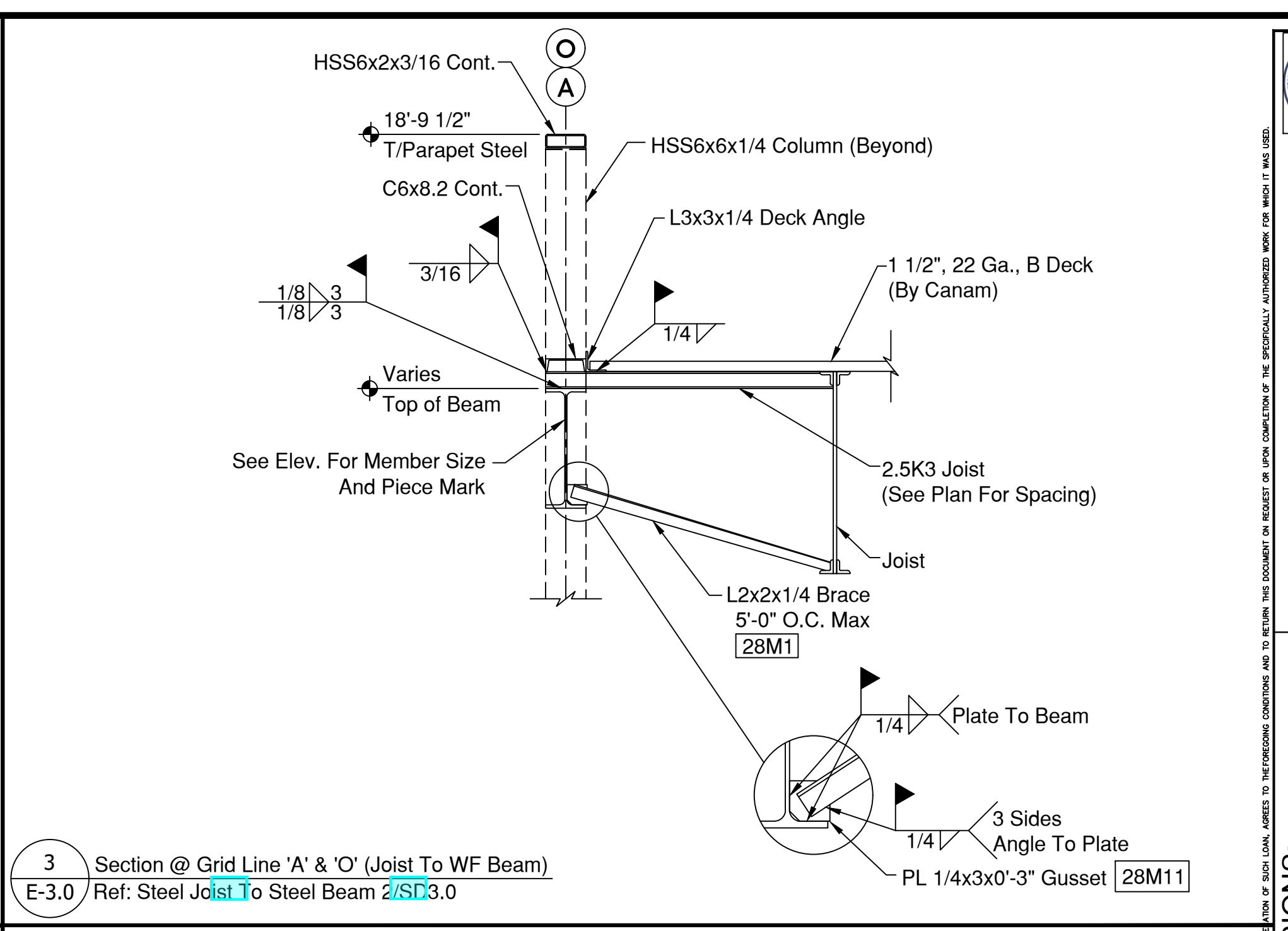
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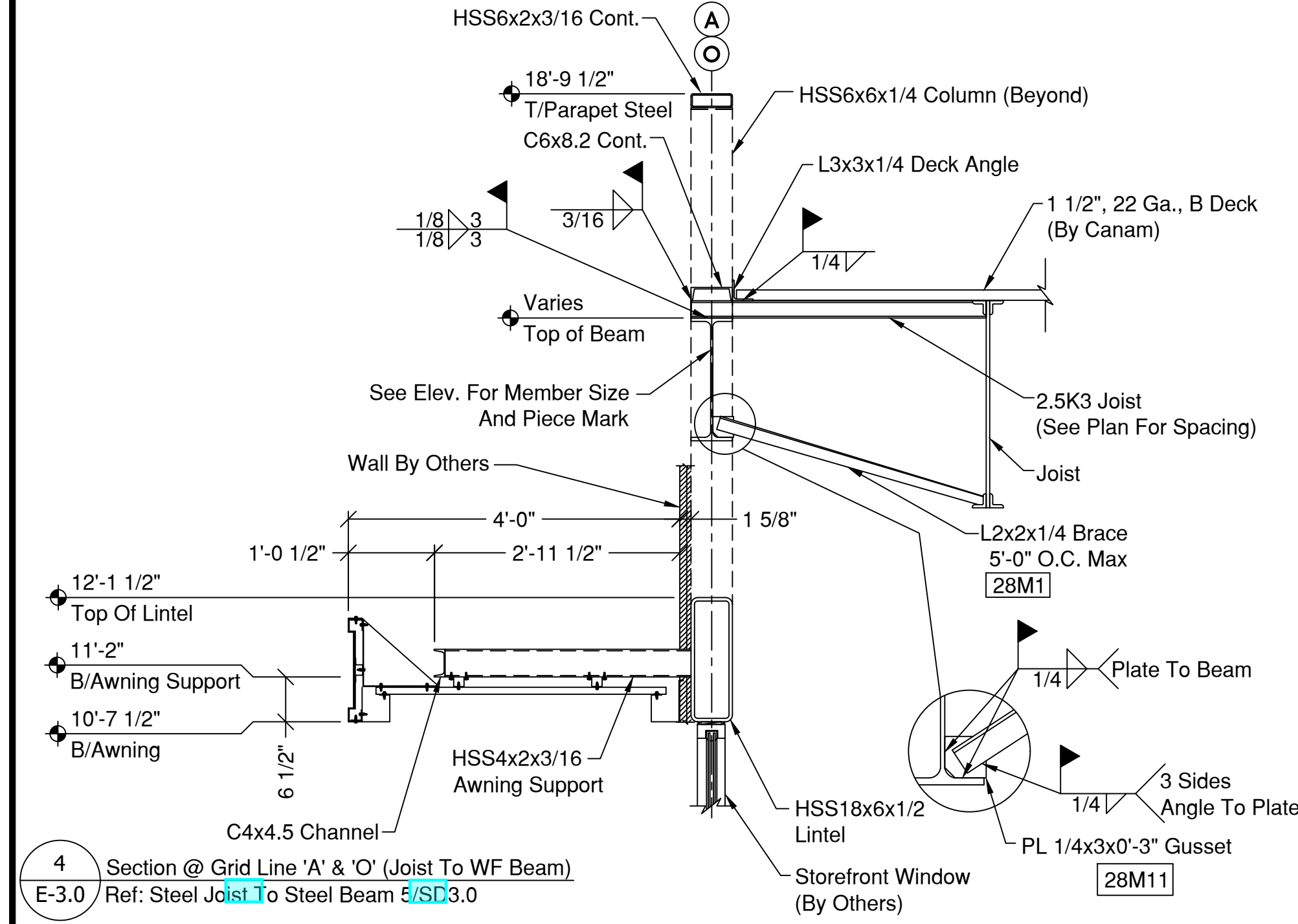
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E-3.0 Ref: Steel Joist To Steel Beam 1/SD3.0



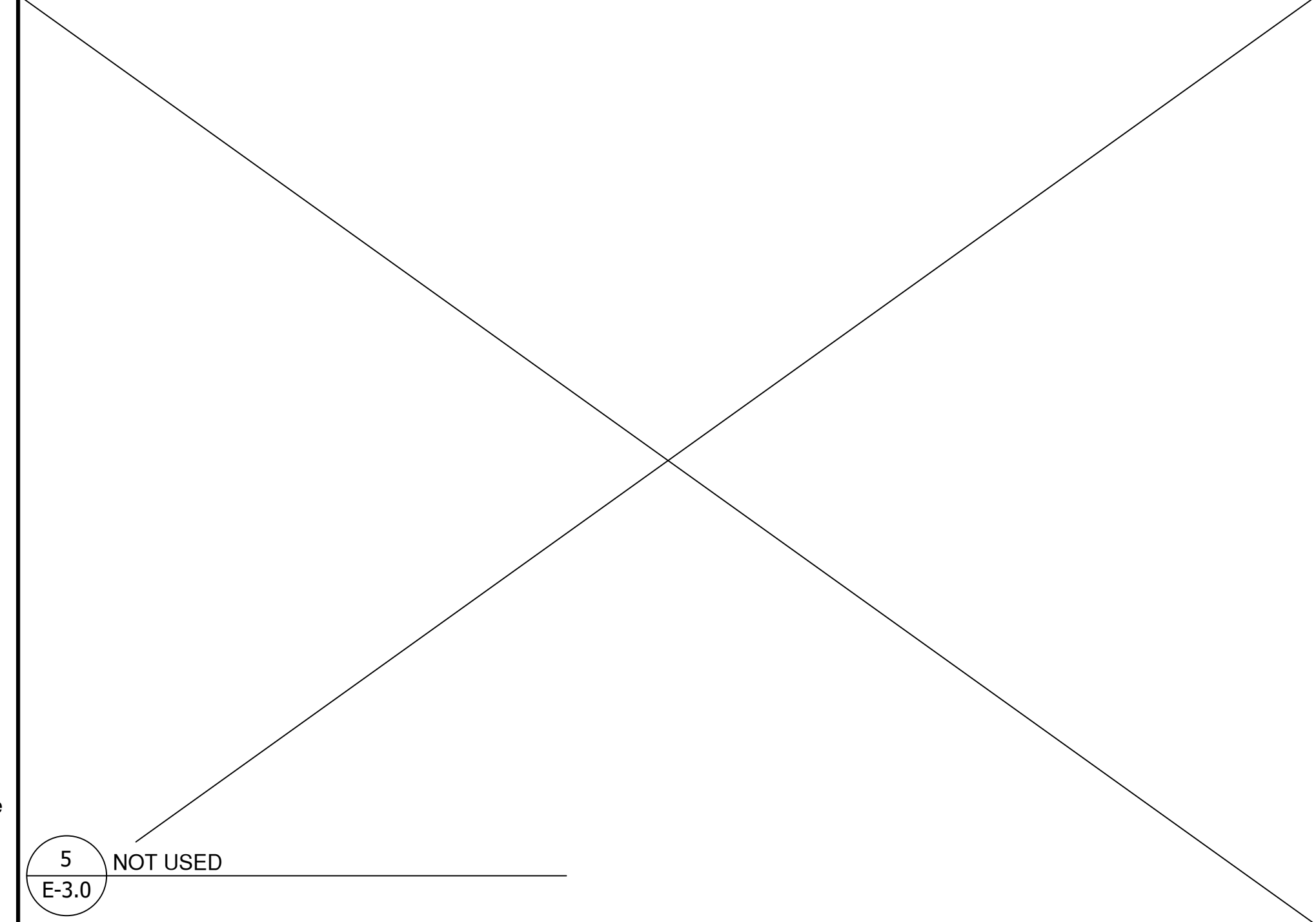
2 Section @ Grid Line '1' (Joist To WF Beam @ Awning)
E-3.0 Ref: Steel Joist To Steel Beam 4/SD3.0



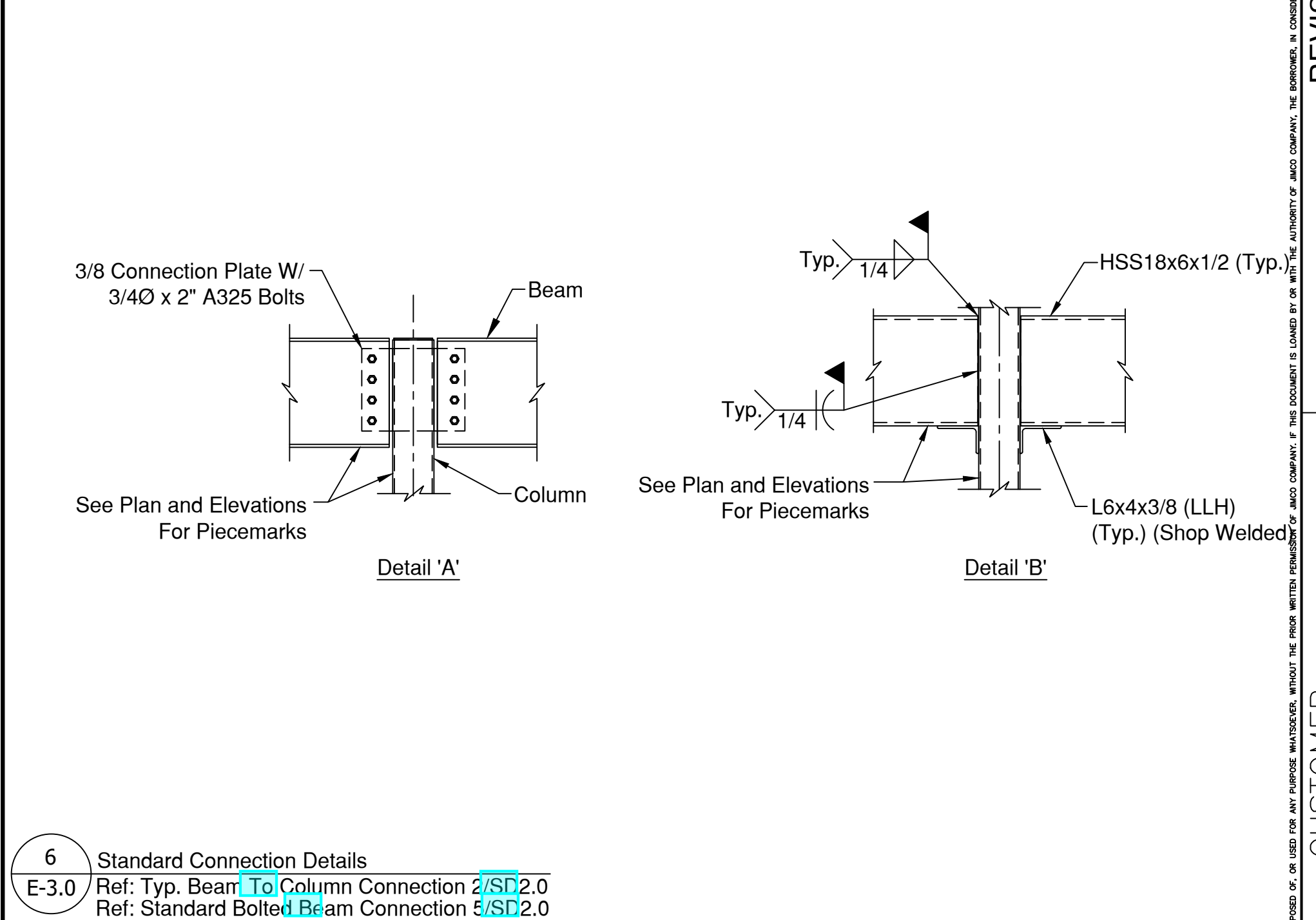
3 Section @ Grid Line 'A' & 'O' (Joist To WF Beam)
E-3.0 Ref: Steel Joist To Steel Beam 2/SD3.0



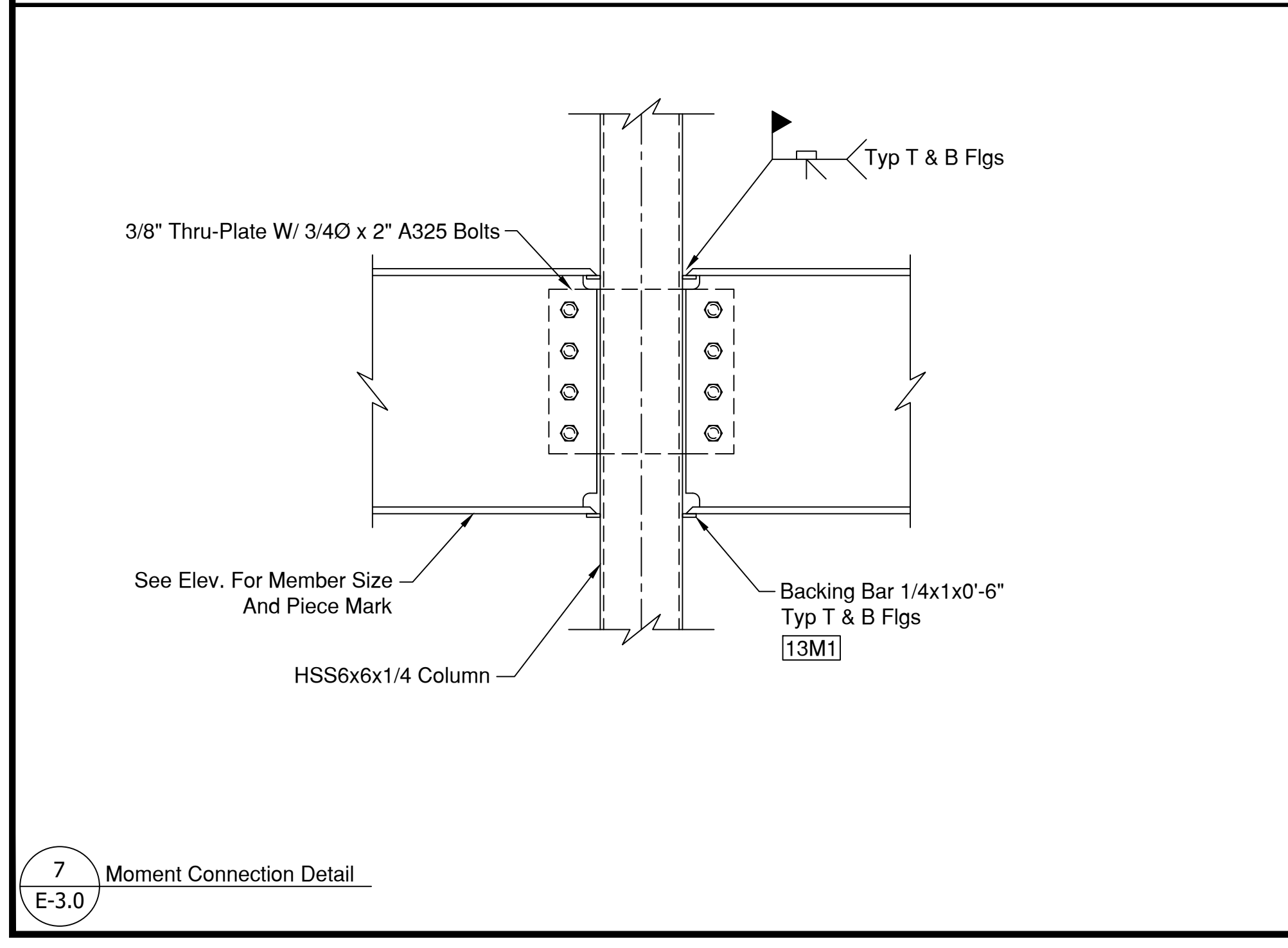
4 Section @ Grid Line 'A' & 'O' (Joist To WF Beam)
E-3.0 Ref: Steel Joist To Steel Beam 5/SD3.0



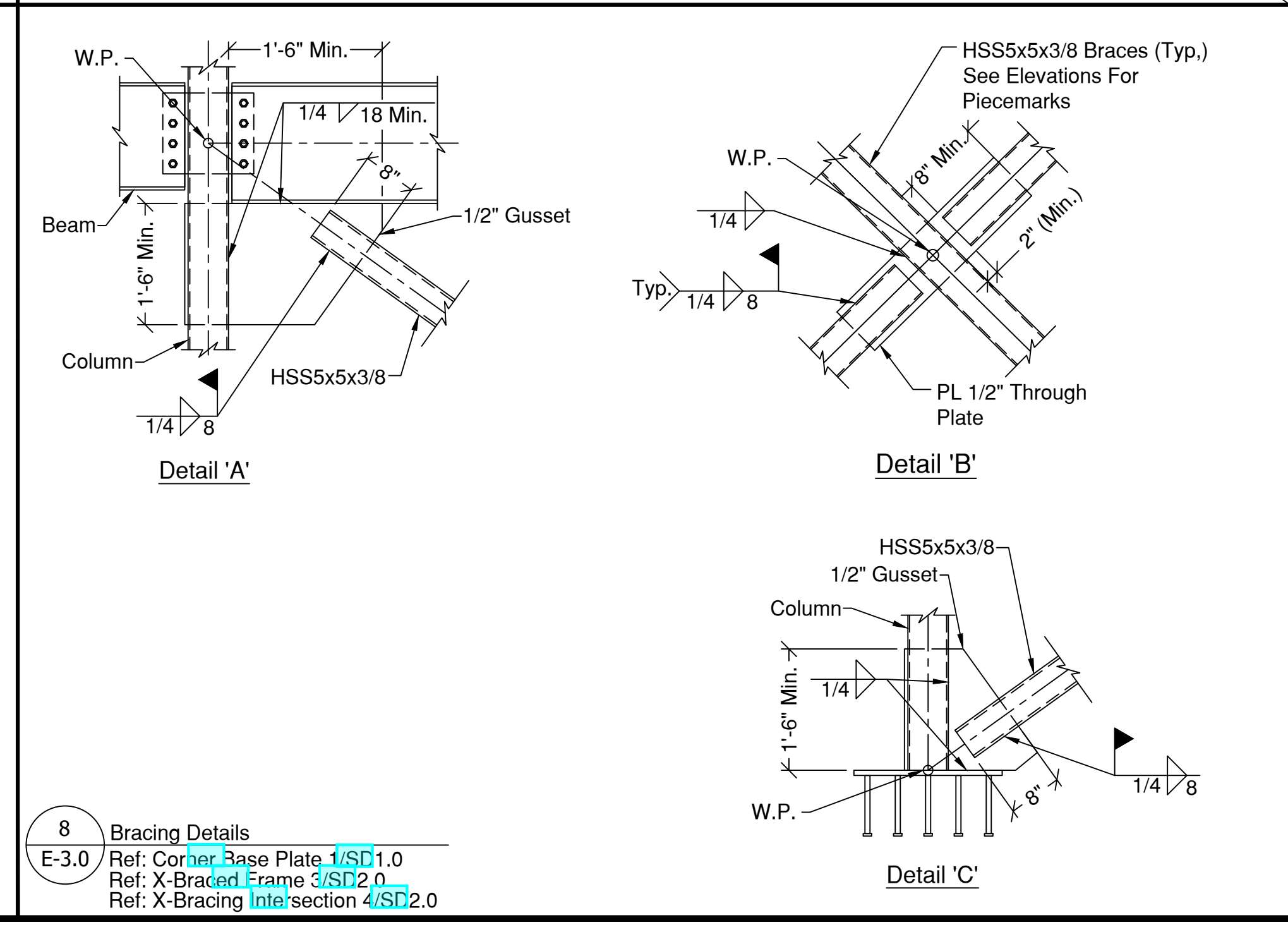
5 NOT USED
E-3.0



6 Standard Connection Details
E-3.0 Ref: Typ. Beam To Column Connection 2/SD2.0
Ref: Standard Bolted Beam Connection 5/SD2.0



7 Moment Connection Detail
E-3.0



8 Bracing Details
E-3.0 Ref: Corner Base Plate 1/SD1.0
Ref: X-Braced Frame 3/SD2.0
Ref: X-Bracing Intersction 4/SD2.0

REVISIONS:

NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
0	3-28-24	Released For Fabrication

CUSTOMER
JIM Phelps Construction, FL
CEFCO #446
NWC I-10 & Hwy. 331
DeFuniak Springs, FL 32435
FILE NAME: DEFUNIAKSPRINGS446

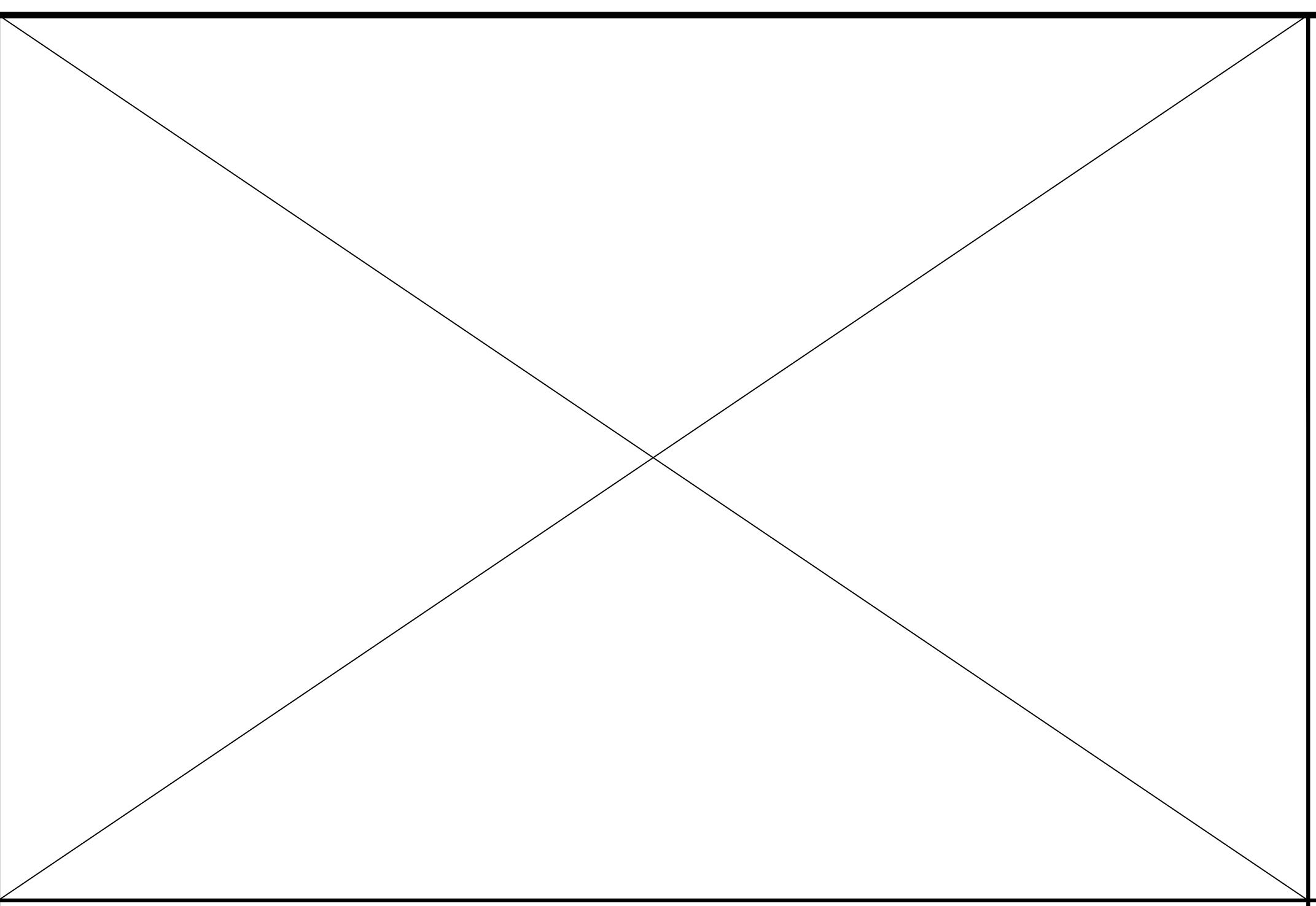
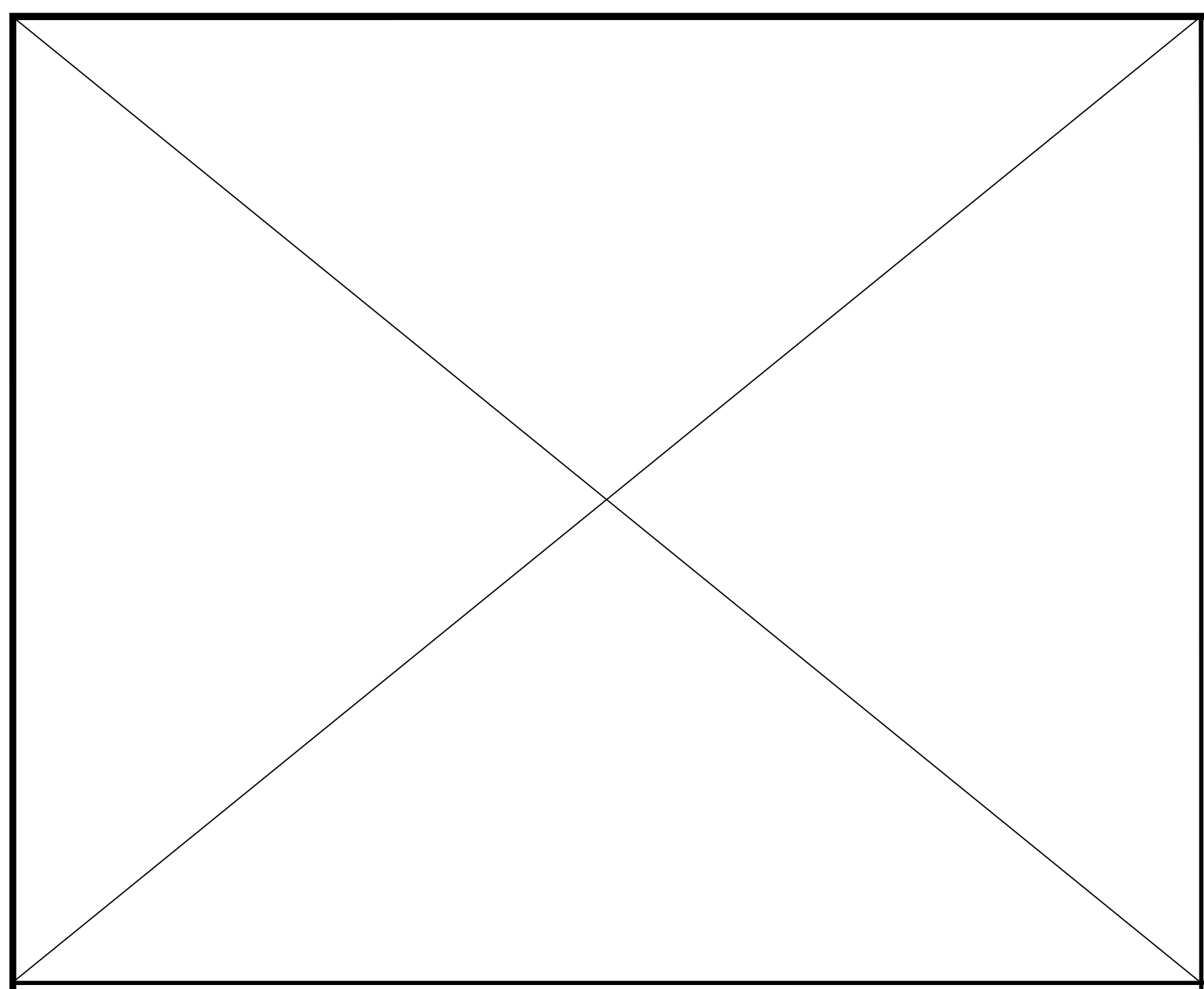
JOB NO.:	23-2485R0
SCALE:	NTS
DRAWN BY:	CBR
START DATE:	2-2-24
CHECKED BY:	CBR
CHECK DATE:	3-25-24
APPROVAL	FIELD
RELEASE DATE:	RELEASE DATE:
3-11-24	3-28-24

SHEET TITLE:
SECTIONS & DETAILS

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RELEASED FOR CONSTRUCTION
FIELD ERECTION SET
DATE ISSUED: 3-28-24

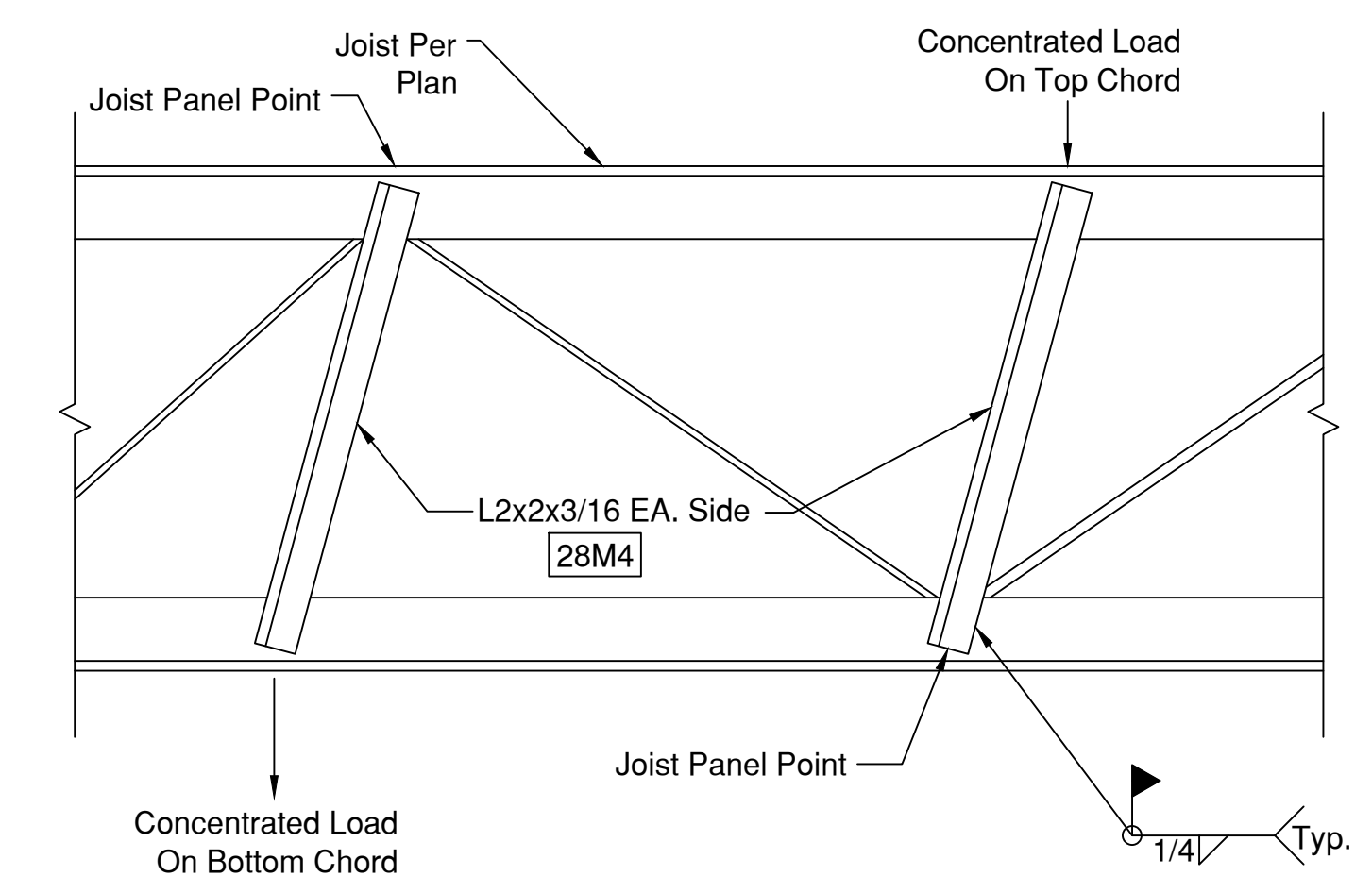
SHEET NO.
E-3.0
REV. NO.
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Note: This Detail Is Applied For All Concentrated Loads That Are Attached To Joists But Not Shown On The Structural Drawings. Examples Of These Loads Are

1. Hanging Load, Partition, That Exceeds 150 lb.
2. Hanging Plumbing, Mech'l Steel Pipe With Dia. > 5"
3. Hanging Basketball Goals
4. Mechanical Units



3 Joist Bracing
E-3.1 Ref: Joist Bracing 4/SD4.0



Jimco
SALES AND
MANUFACTURING
Fort Worth, Texas (817)924-6173

REVISIONS:

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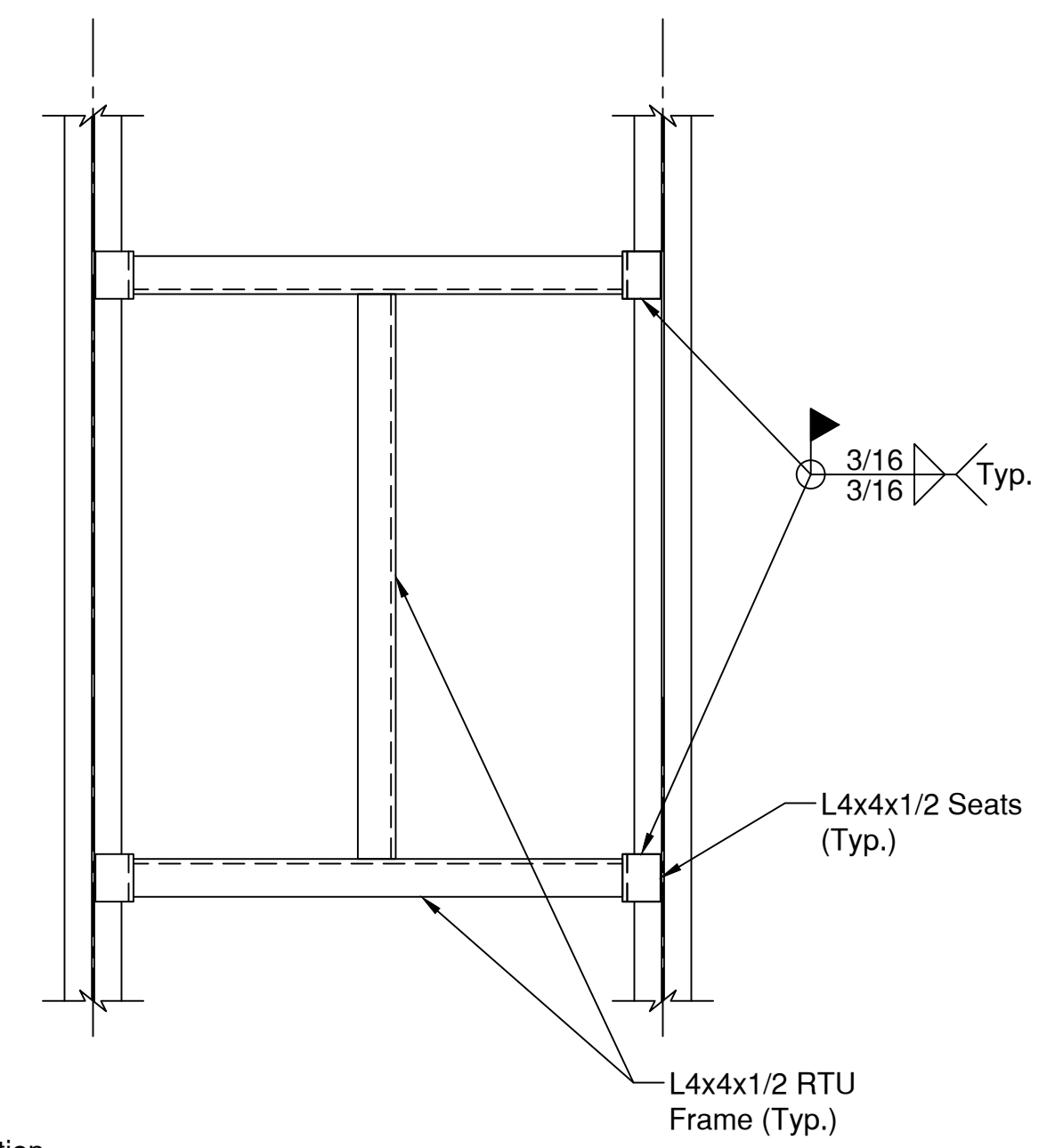
CUSTOMER

JM Phelps Construction, FL
CEFCO #446
NWC I-10 & Hwy. 331
DeFuniak Springs, FL 32435
FILE NAME: DEFUNIAKSPRINGS446

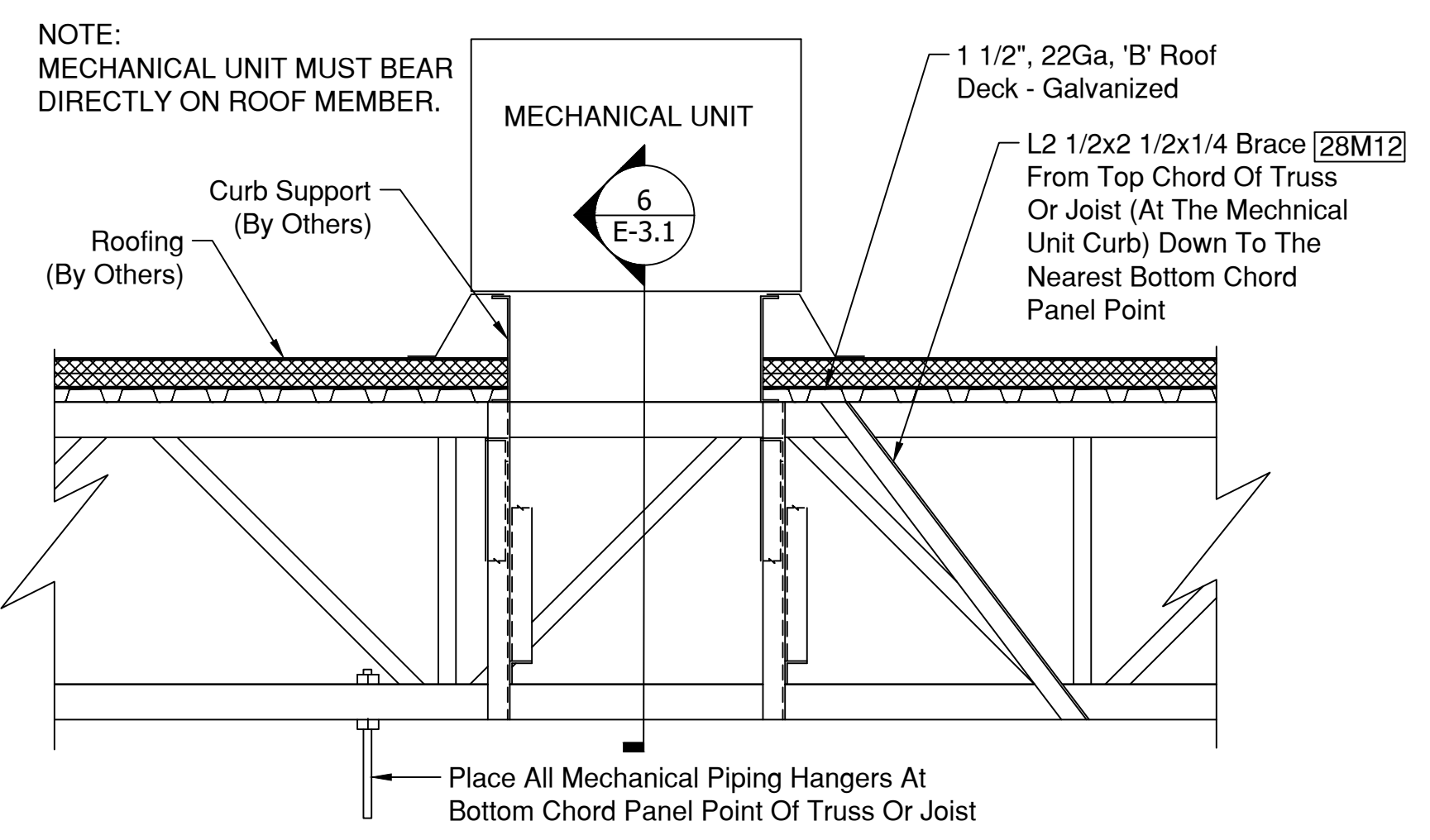
JOB NO.:	23-2485R0
SCALE:	NTS
DRAWN BY:	CBR
START DATE:	2-2-24
CHECKED BY:	CBR
CHECK DATE:	3-25-24
APPROVAL	FIELD
RELEASE DATE:	RELEASE DATE:
3-11-24	3-28-24

SHEET TITLE:
SECTIONS & DETAILS

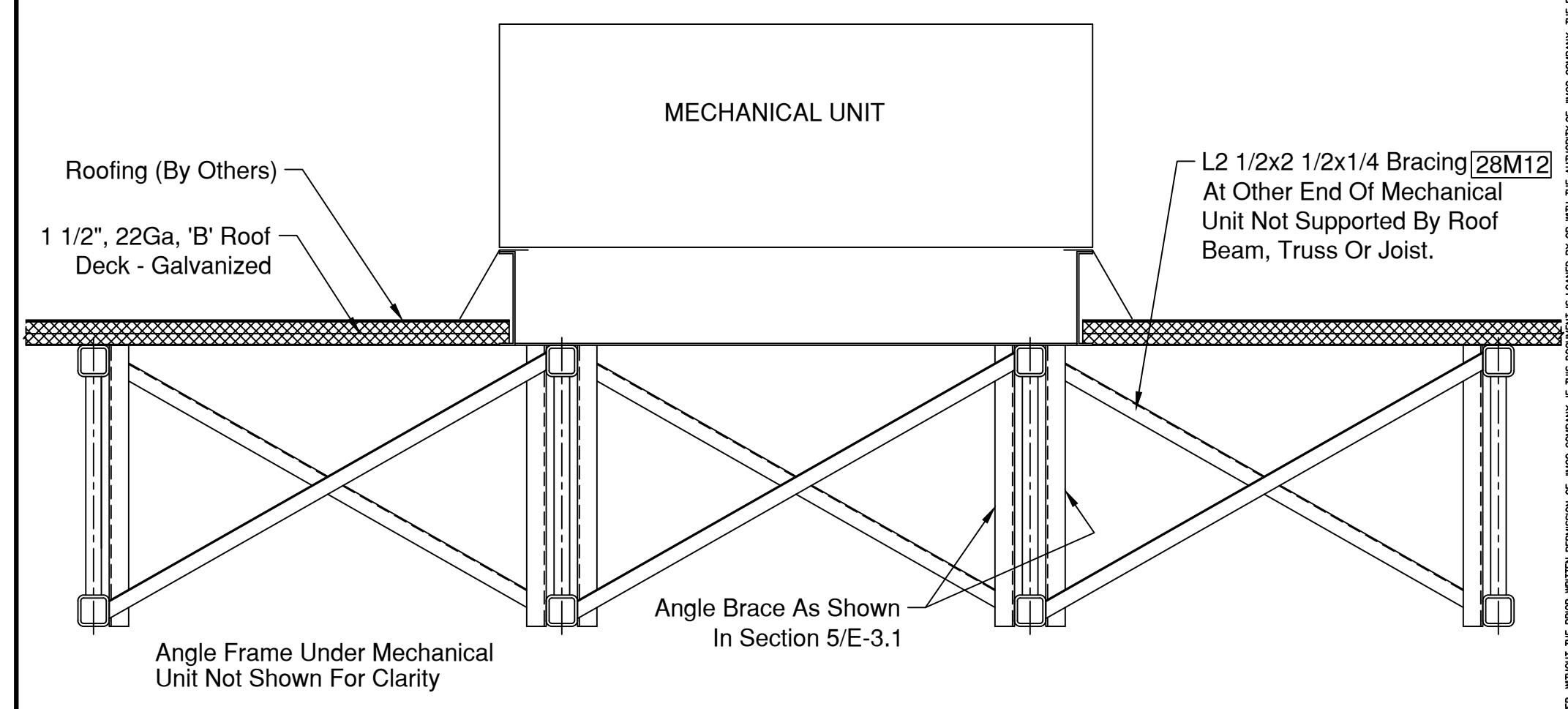
SHEET NO.	E-3.1
REV. NO.	0



4 RTU Frame Installation
E-3.1 Ref: 4/SD4.0



5 BRACING @ MECHANICAL UNIT
E-3.1 (Ref: 3/SD4.1)



6 BRACING @ MECHANICAL UNIT
E-3.1 (Ref: 4/SD4.1)

JIMCO SALES AND MANUFACTURING
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DATE ISSUED: 3-28-24



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REVISIONS:

NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
0	3-28-24	Released For Fabrication

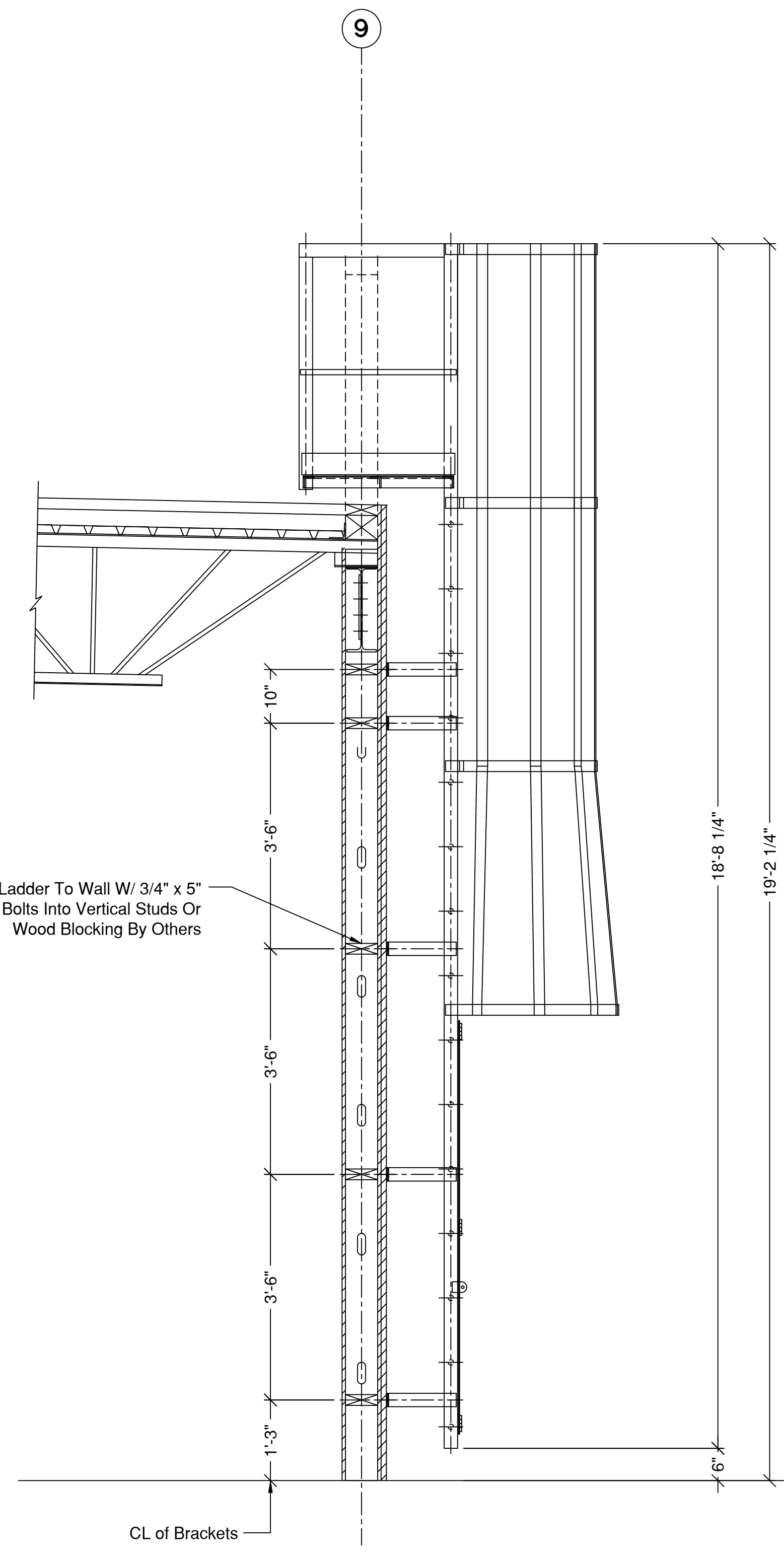
CUSTOMER
 JIM Phelps Construction, FL
 CEFCO #446
 NWC I-10 & Hwy. 331
 DeFuniak Springs, FL 32435
 FILE NAME: DEFUNIAKSPRINGS446

JOB NO.:	23-2485R0
SCALE:	NTS
DRAWN BY:	CBR
START DATE:	2-2-24
CHECKED BY:	CBR
CHECK DATE:	3-25-24
APPROVAL RELEASE DATE:	3-11-24
FIELD RELEASE DATE:	3-28-24

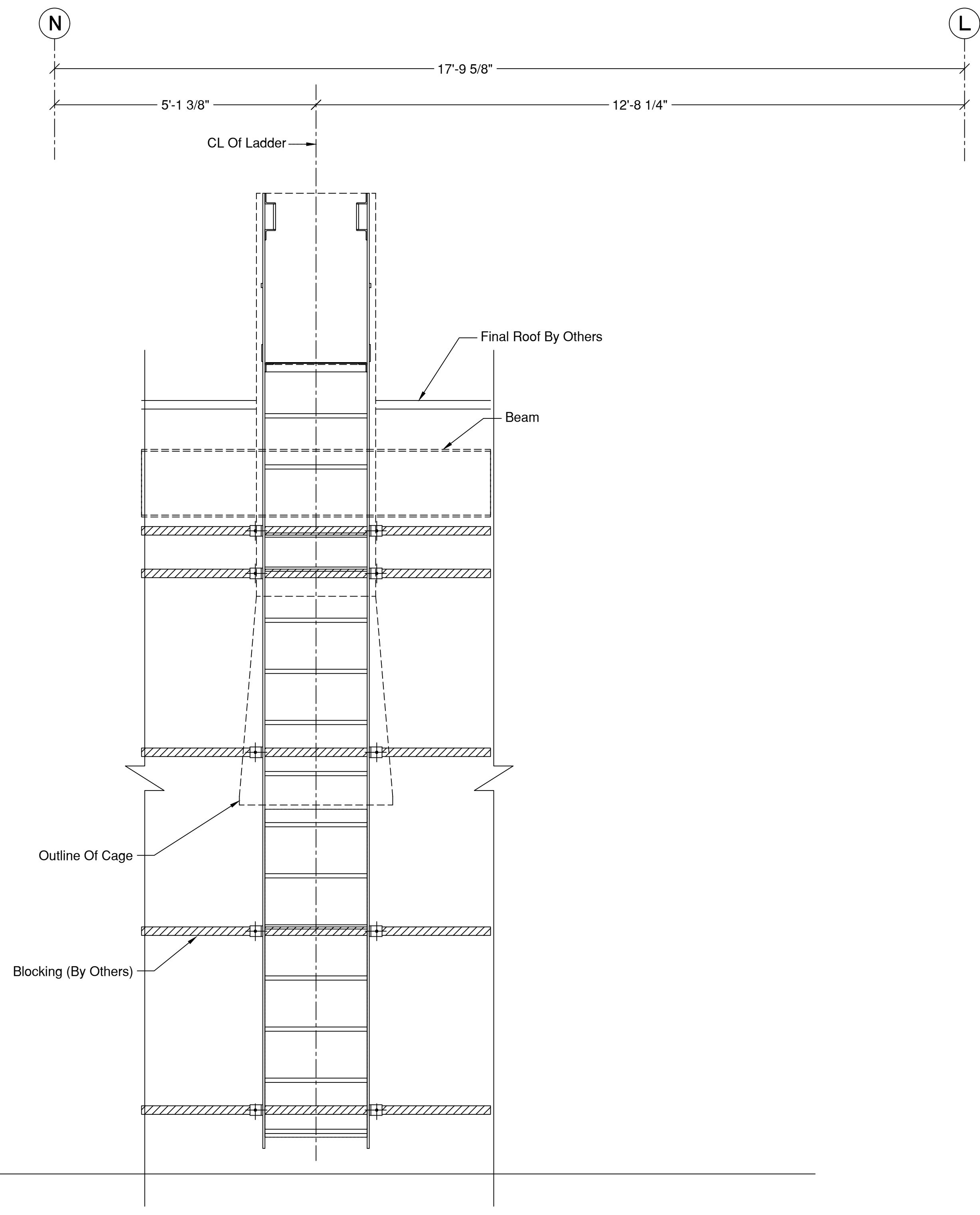
SHEET TITLE:
 LADDER INSTALLATION

SHEET NO.
E-4.0
REV. NO.
0

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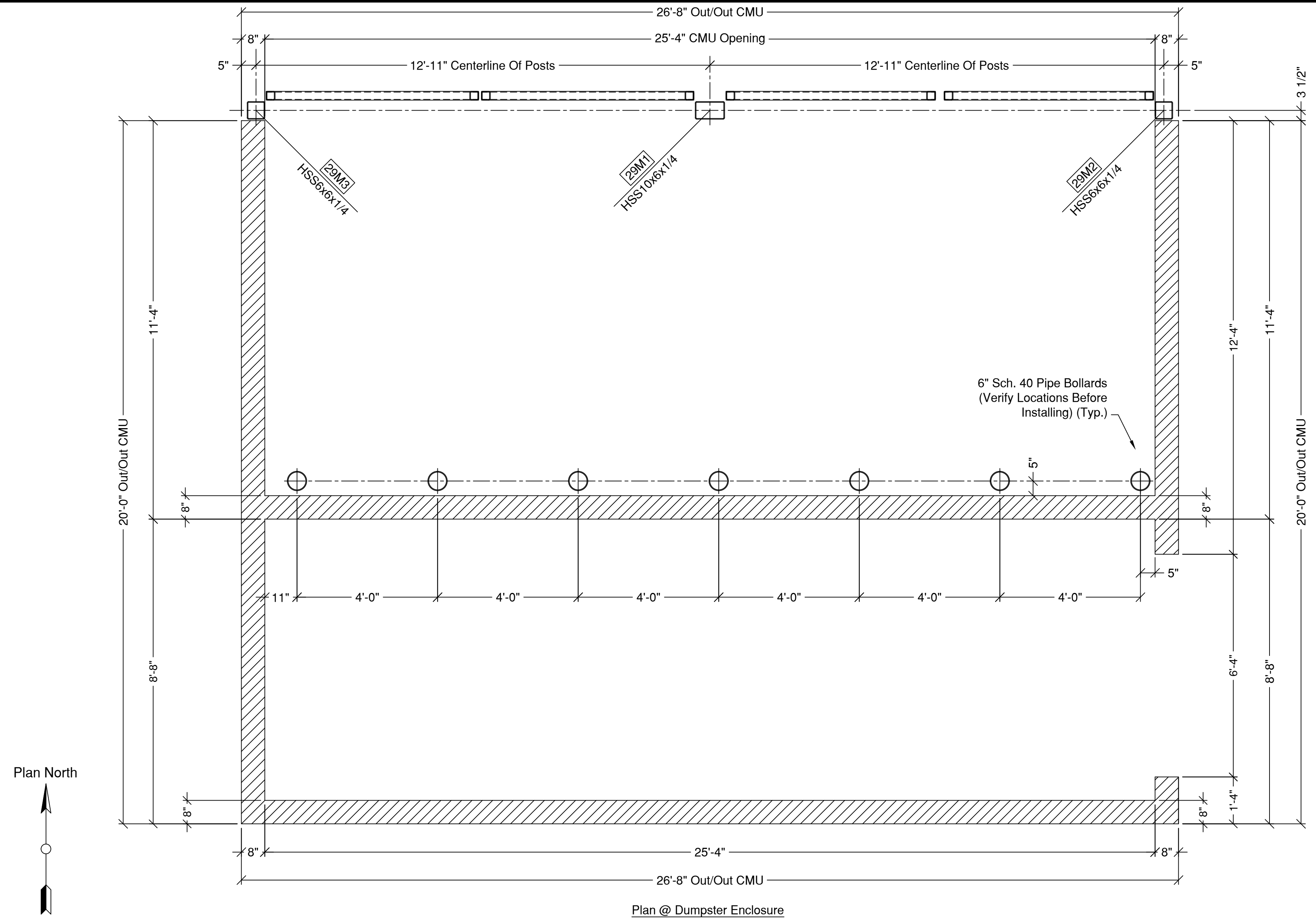


Elevation @ Ladder 31L1
 Gridline '9'
 (Looking West)

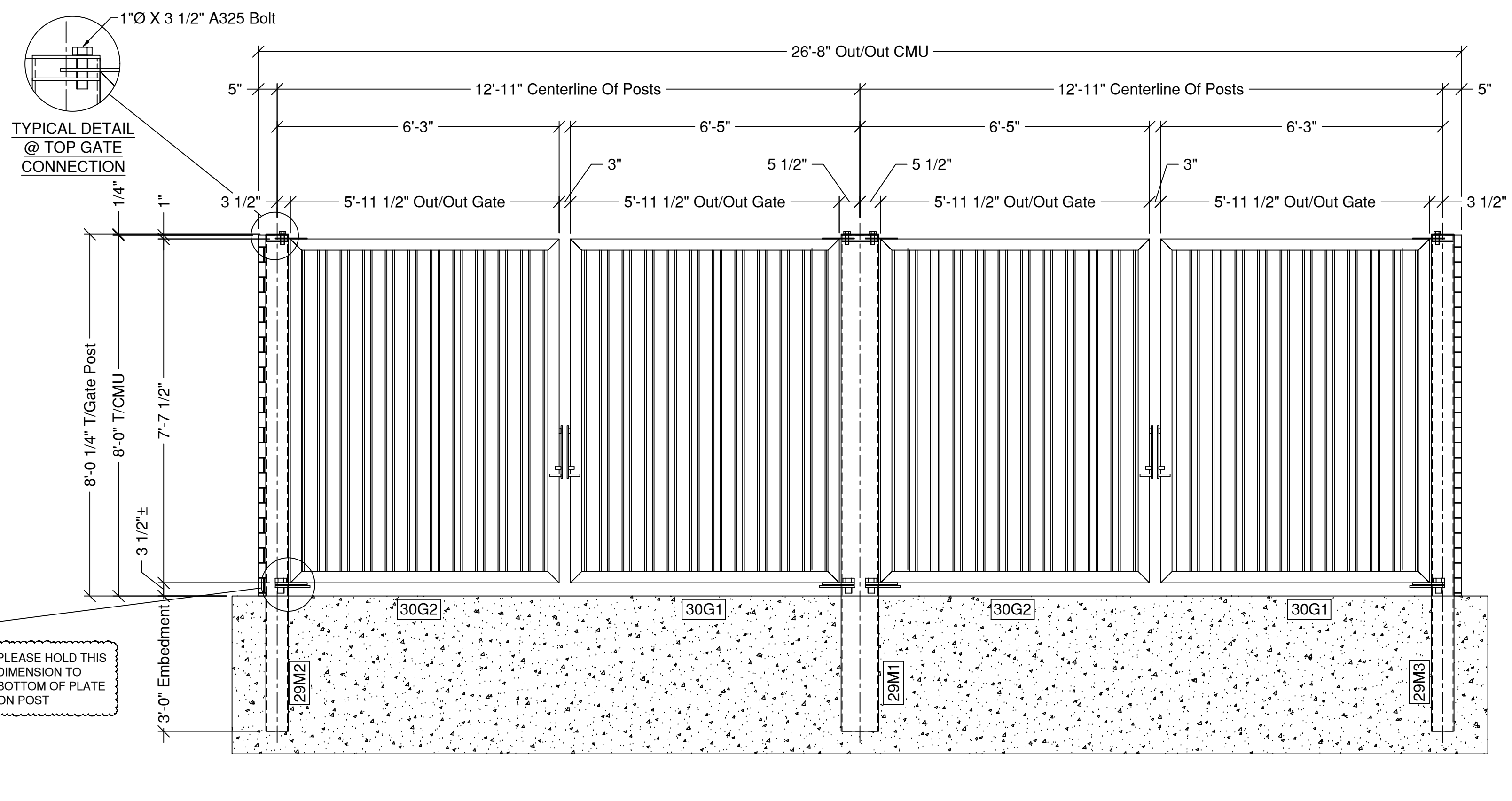
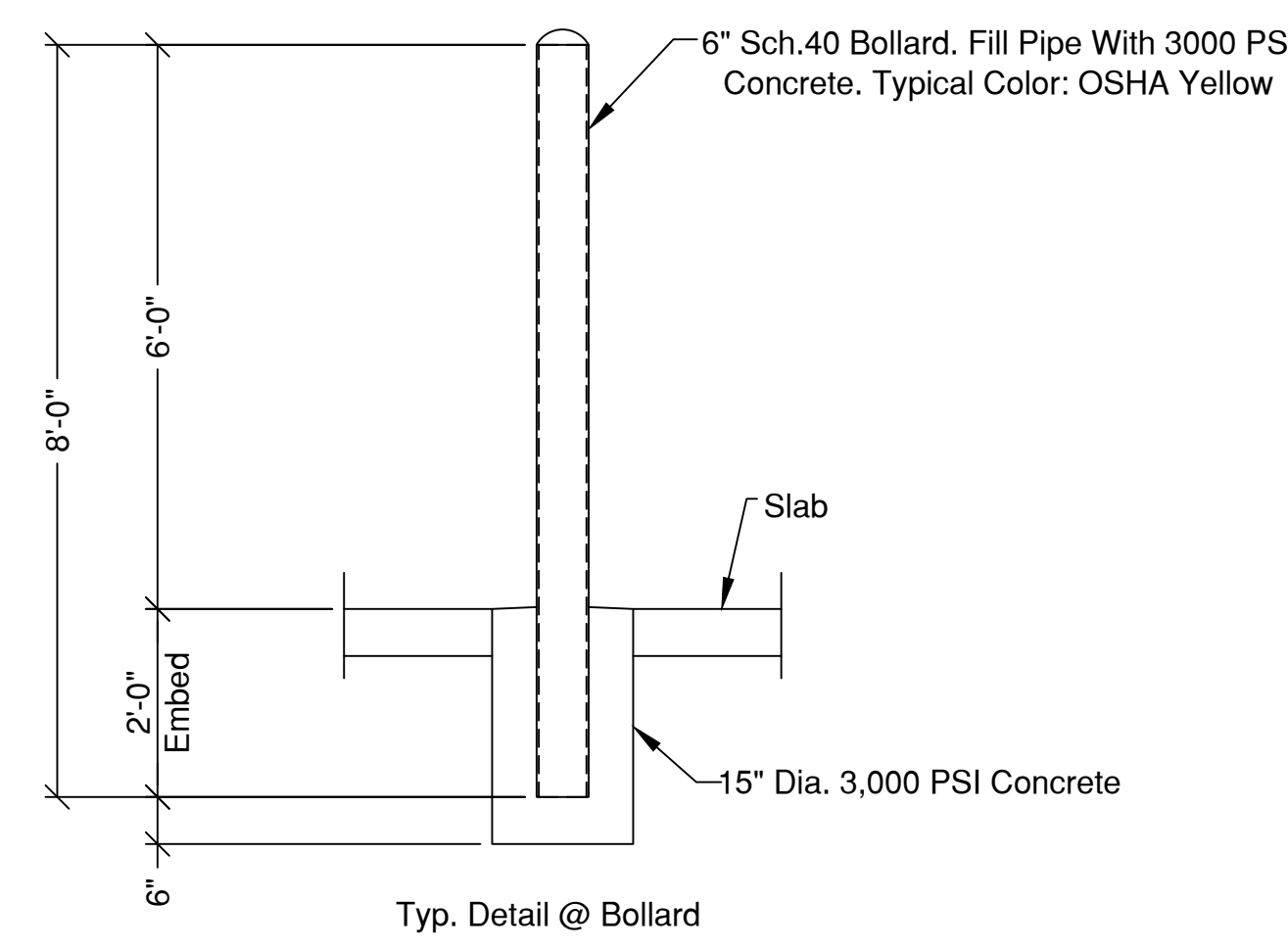


Elevation @ Ladder 31L1
 Gridline '9'
 (Looking South)

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Plan @ Dumpster Enclosure



TYPICAL DETAIL @ TOP GATE CONNECTION

TYPICAL DETAIL @ BOTTOM GATE CONNECTION

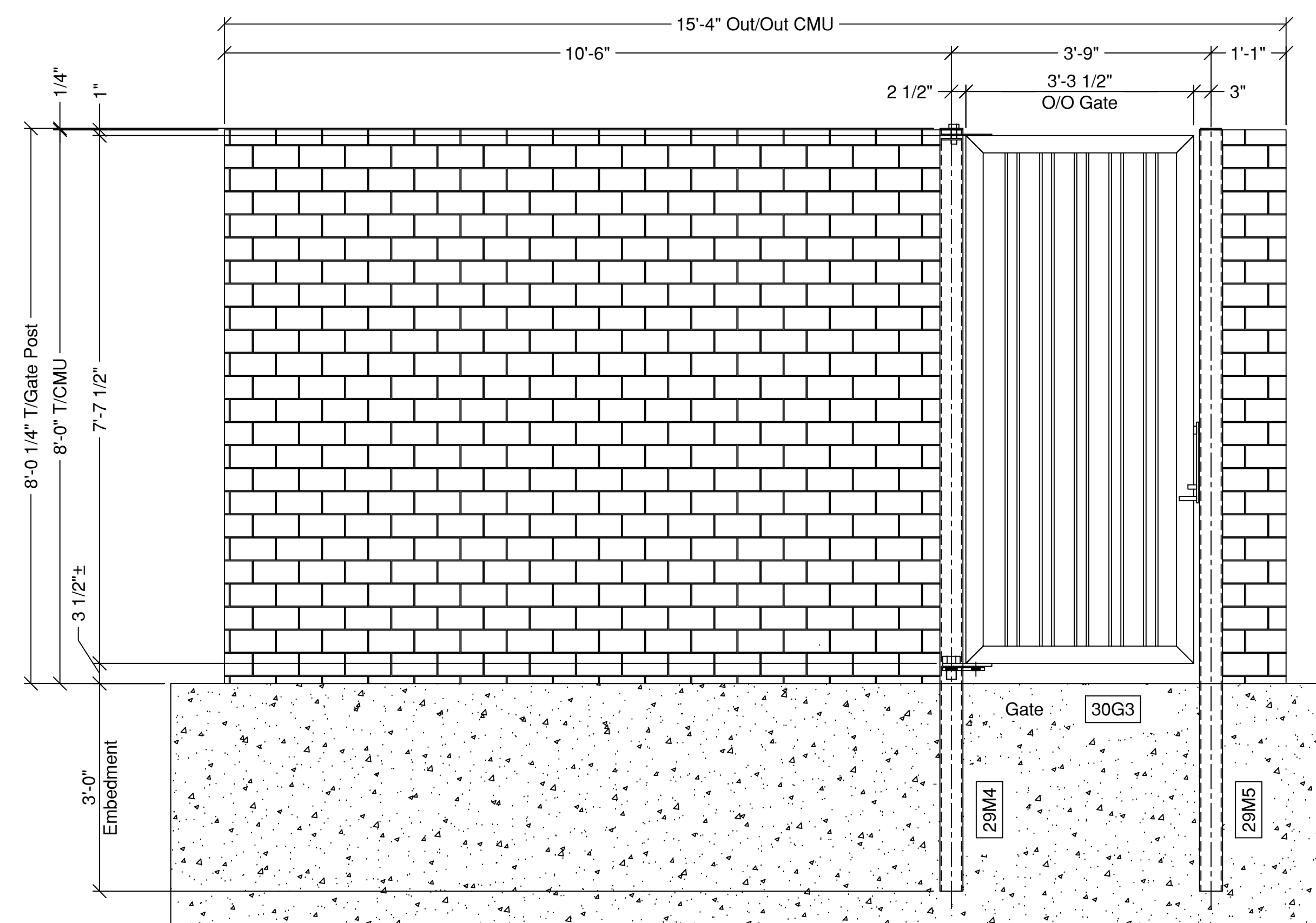
PLEASE HOLD THIS DIMENSION TO BOTTOM OF PLATE ON POST

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 FIELD ERECTION SET
 DATE ISSUED: 3-28-24

REVISIONS:	
NO.	REMARKS
A	Released For Approval
0	Released For Fabrication

CUSTOMER JM Phelps Construction, FL CEFCO #446 NWC I-10 & Hwy. 331 DeFuniak Springs, FL 32435	JOB NO.: 23-2485R0 SCALE: NTS DRAWN BY: CBR START DATE: 2-2-24 CHECKED BY: CBR CHECK DATE: 3-25-24 APPROVAL RELEASE DATE: 3-11-24 FIELD RELEASE DATE: 3-28-24
SHEET TITLE: DUMPSTER ENCLOSURE	
SHEET NO. E-5.0	
REV. NO. 0	

FILE NAME: DEFUNIAKSPRINGS446



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U.S. CERTIFIED FABRICATOR

CUSTOMER
 JM Phelps Construction, FL
 CEFCO #446
 NWC I-10 & Hwy. 331
 DeFuniak Springs, FL 32435
 FILE NAME: DEFUNIAKSPRINGS446

REVISIONS:

NO.	DATE:	REMARKS:
A	3-11-24	Released For Approval
0	3-28-24	Released For Fabrication

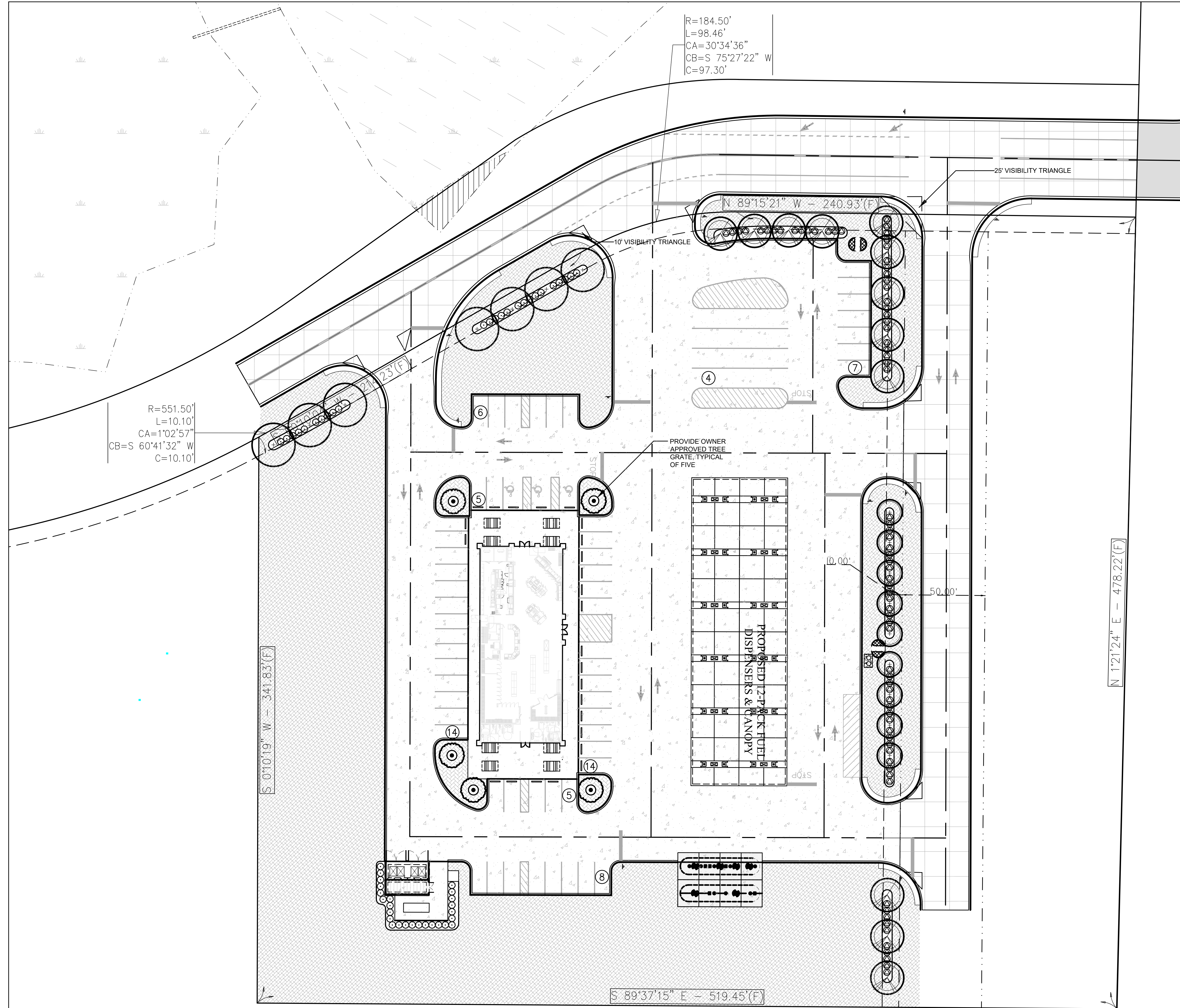
JOB NO.: 23-2485R0
 SCALE: NTS
 DRAWN BY: CBR
 START DATE: 2-2-24
 CHECKED BY: CBR
 CHECK DATE: 3-25-24
 APPROVAL RELEASE DATE: 3-11-24
 FIELD RELEASE DATE: 3-28-24

SHEET TITLE:
 DUMPSTER ENCLOSURE

SHEET NO.
E-5.1

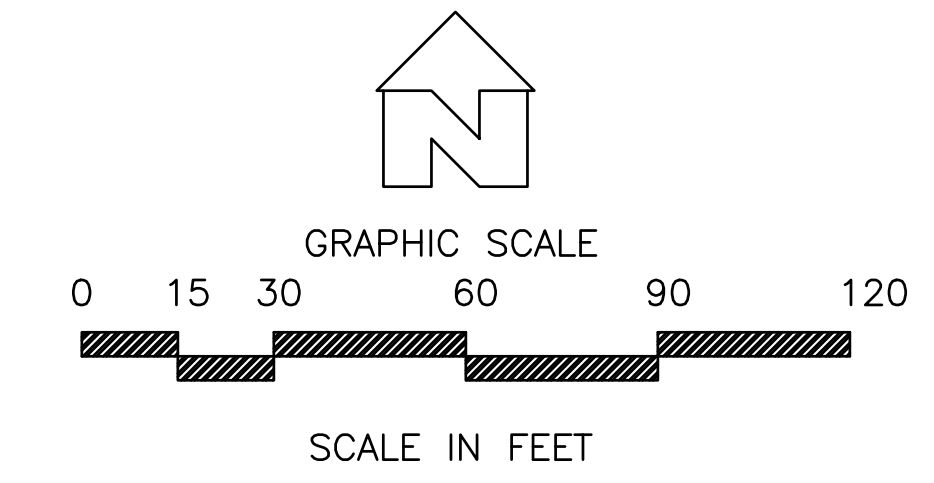
REV. NO.
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- LANDSCAPE NOTES:
- LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
 - ELIMINATE EXISTING VEGETATION IN AREAS TO BE PLANTED. SPRAY WITH ROUNDUP AT MANUFACTURER'S RECOMMENDED RATE TWICE IN 14 DAYS.
 - TOP DRESS ALL AREAS TO RECEIVE PLANTINGS WITH 2" FINISHED MUSHROOM COMPOST PRIOR TO PLANTING.
 - ALL PLANT MATERIAL FLORIDA #1 OR BETTER.
 - FERTILIZE ALL PLANTINGS WITH OSMOCOTE OR OTHER APPROVED SLOW RELEASE FERTILIZER AT MANUFACTURER'S RECOMMENDED RATE BEFORE MULCHING.
 - APPLY PREEN OR OTHER APPROVED PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS BEFORE MULCHING.
 - MULCH ALL AREAS OF TREE, SHRUB AND GROUNDCOVER MASS PLANTINGS WITH 3" PINESTRAW MULCH.
 - QUANTITIES SHOWN IN PLANT LIST ARE FOR CONTRACTOR'S CONVENIENCE. VERIFY ALL PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST.
 - B&B MATERIAL MAY BE SUBSTITUTED FOR CONTAINER GROWN MATERIAL PROVIDED IT EXCEEDS THE MINIMUM SIZES NOTED.
 - SOD ALL DISTURBED AREAS WITH SPECIES SHOWN ON PLAN.
 - WARRANTY ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE.

- IRRIGATION NOTES:
- AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
 - CONTRACTOR RESPONSIBLE FOR LOCATING AND SUPPLYING ELECTRICAL POWER TO CONTROLLER.
 - CONTRACTOR TO PROVIDE AND PAY FEES FOR SEPARATE IRRIGATION METER.
 - PROVIDE BACKFLOW PREVENTION PER CITY REQUIREMENTS.
 - PROVIDE RAIN SHUT OFF DEVICE PER FLA. STATE LAW.



- LANDSCAPE LEGEND
- GROUNDCOVER**
- 79,000± S.F. INCLUDING 10% FOR WASTE
BERMUDA 410 SOD
 - CYANODON DACTYLON 'TIFF 419'
1,900± S.F. INCLUDING 10% FOR WASTE
PRECAST CONCRETE PAVERS
 - COMMERCIALLY AVAILABLE 4X8 PAVERS
 - 12 VARIEGATED FLAX LILY
DIANELLA TASMANICA 'VARIEGATA'
1 GAL. 3" O.C.
- SHRUBS**
- 77 'HARDY RED' OLEANDER
NERIUM OLEANDER 'HARDY RED'
36" HEIGHT, 4" O.C.
 - 51 'SWEET' VIBURNUM
VIBURNUM ODORATISSIMUM
3 GAL. 4" O.C.
- UNDERSTORY TREES**
- 9 EASTERN REDBUD
CERCIS CANADENSIS
30 GAL.
- CANOPY TREES**
- 5 CABBAGE PALM
SABAL PALMETTO
10-14' HEIGHT STAGGERED
FULLY BOOTED
 - 12 'SUMMER RED' RED MAPLE
ACER RUBRUM 'HOSR'
2" CALIPER
 - 7 BALD CYPRESS
TAXODIUM DISTICHUM
8' HEIGHT

LANDSCAPING REQUIREMENTS

FRONTAGE REQUIREMENTS
(1 TREE/25' ROAD FRONTAGE)

PROPERTY LINE	LENGTH	CANOPY TREES REQUIRED	CANOPY TREES PROVIDED
NORTH	292"	12	12 CANOPY TREES
SOUTH	-	-	-
EAST	386"	16	9 UNDERSTORY, 7 CANOPY TREES
WEST	-	-	-

INTERIOR LANDSCAPE REQUIREMENTS
5% OF PARKING SPACE AREA

PARKING SPACE AREA	AREA REQUIRED	AREA PROVIDED
14,878 SQUARE FEET	744 SQUARE FEET	861 SQUARE FEET

INTERIOR LANDSCAPE REQUIREMENTS
1 SQUARE FOOT OF LANDSCAPE AREA PER 50 SQUARE FEET OF VEHICULAR USE AREA

VUA	AREA REQUIRED	AREA PROVIDED
151,323 SQUARE FEET	3,026 SQUARE FEET	141,151 SQUARE FEET

23029-CEFCO DEFUNIAK SPRINGS

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LANDSCAPE ARCHITECT

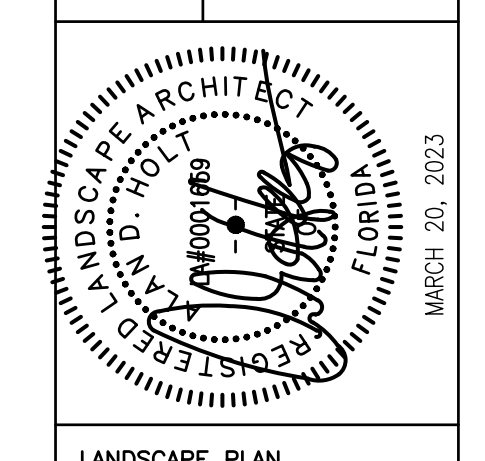
Alan D. Holt, A.S.L.A.
LANDSCAPE ARCHITECT, PA
FL LA#1659

PO BOX 2549 PANAMA CITY, FL 32402
TELEPHONE: (850)914-9006 E-MAIL: alan@alandholtasla.com

CEFCO
DEFUNIAK SPRINGS

FOR THE FIKES COMPANY
DEFUNIAK SPRINGS AT 1-10, DEFUNIAK SPRINGS, FL

DATE	ISSUE/REVISION
02/17/23	PERMIT DRAWING
03/20/23	PER NEW BASE

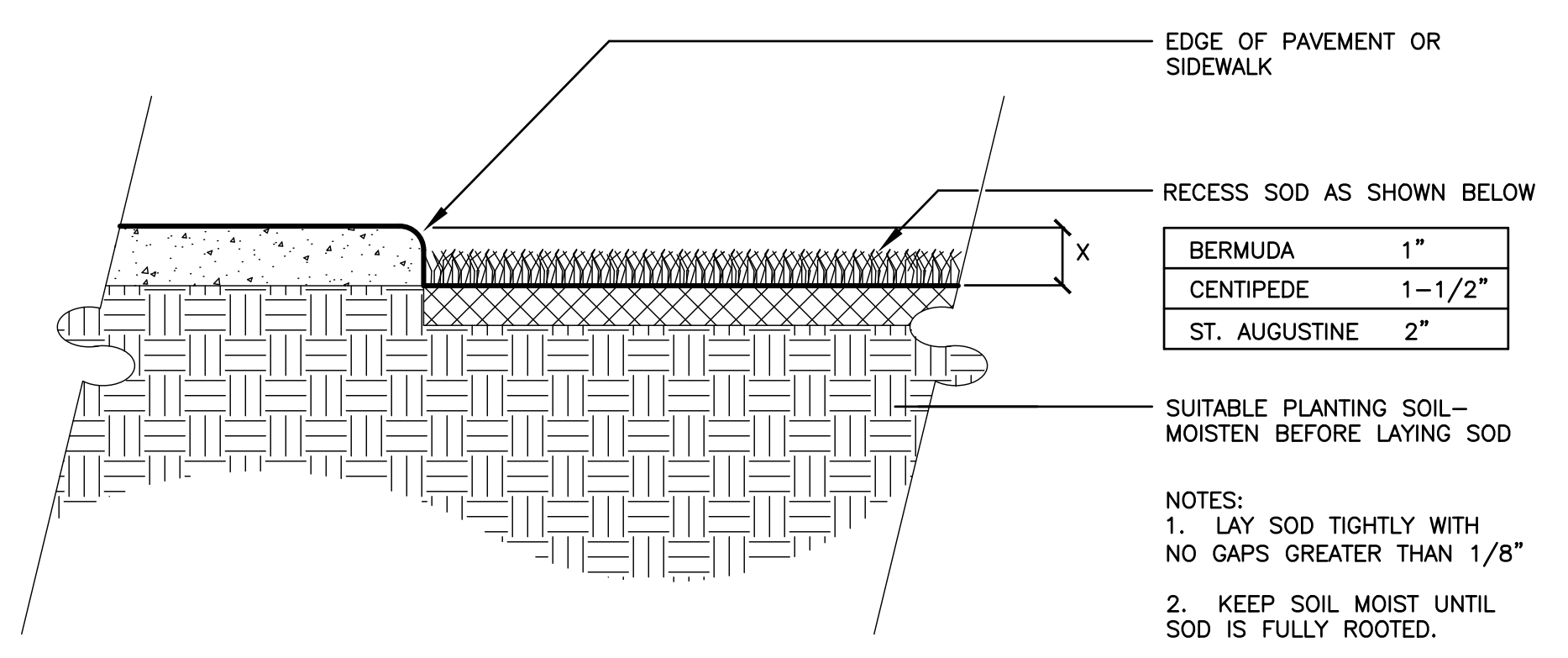
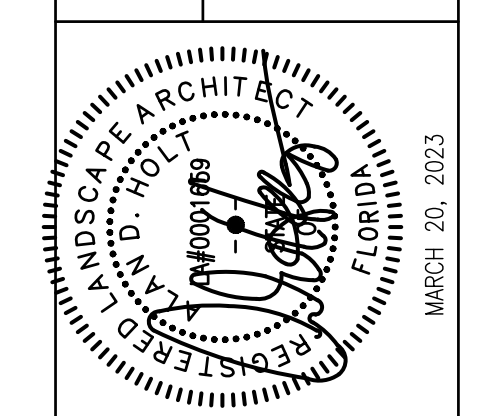


LANDSCAPE PLAN
SHEET NUMBER

LP1

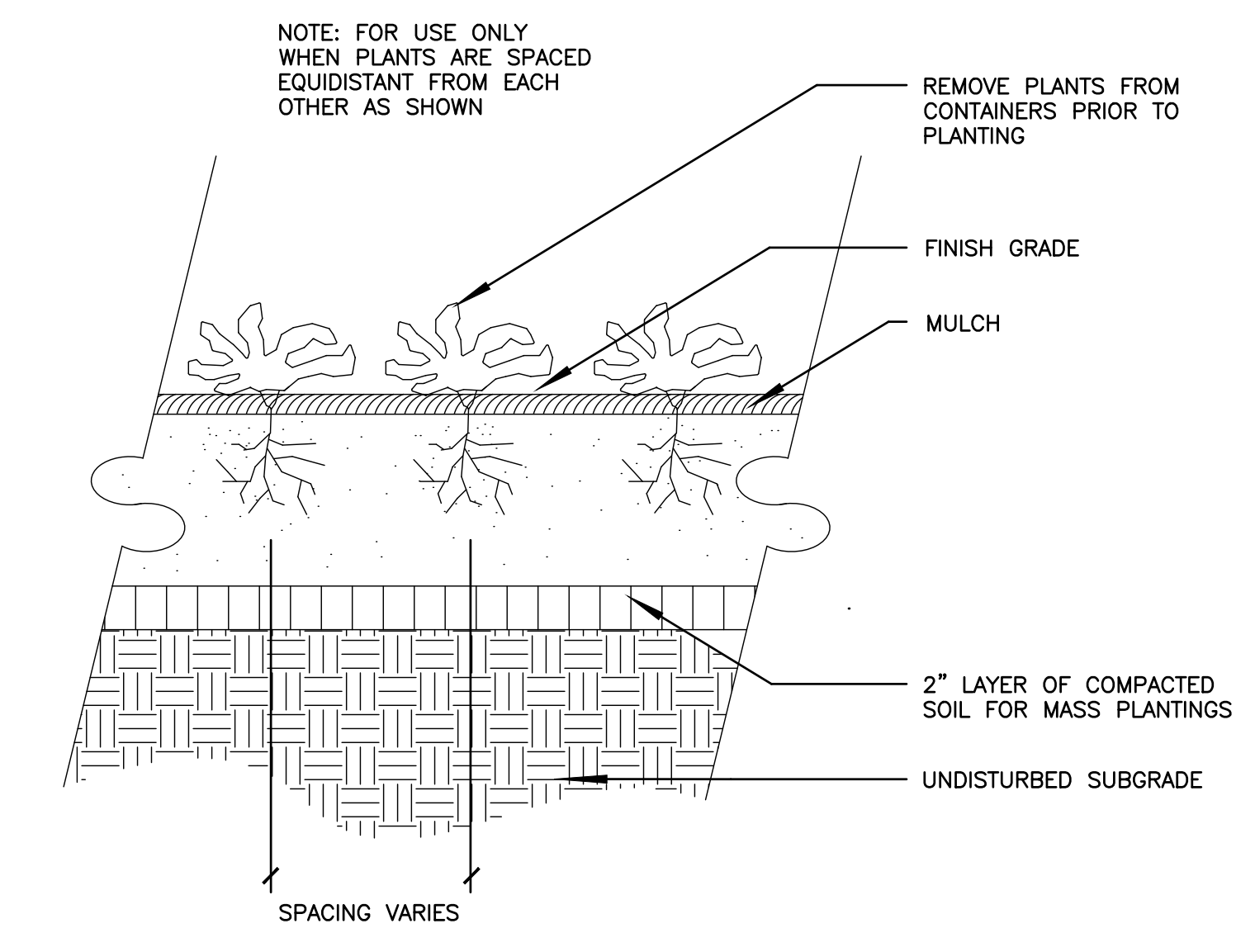
ONE OF ONE

DATE	ISSUE/REVISION
02/17/23	PERMIT DRAWING
03/20/23	PER NEW BASE

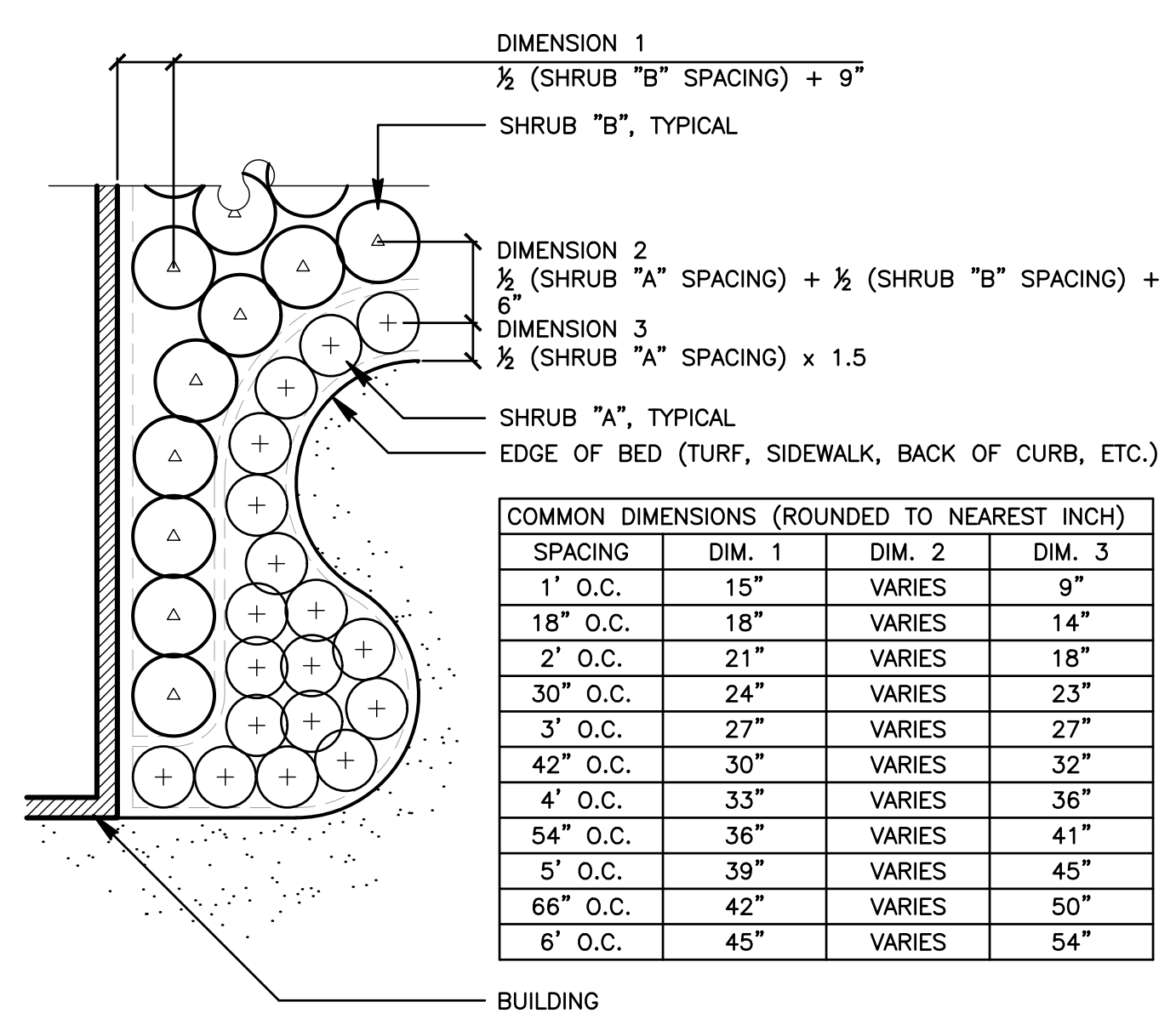


7 SOD DETAIL AT PAVING
LP2 SCALE: NOT TO SCALE

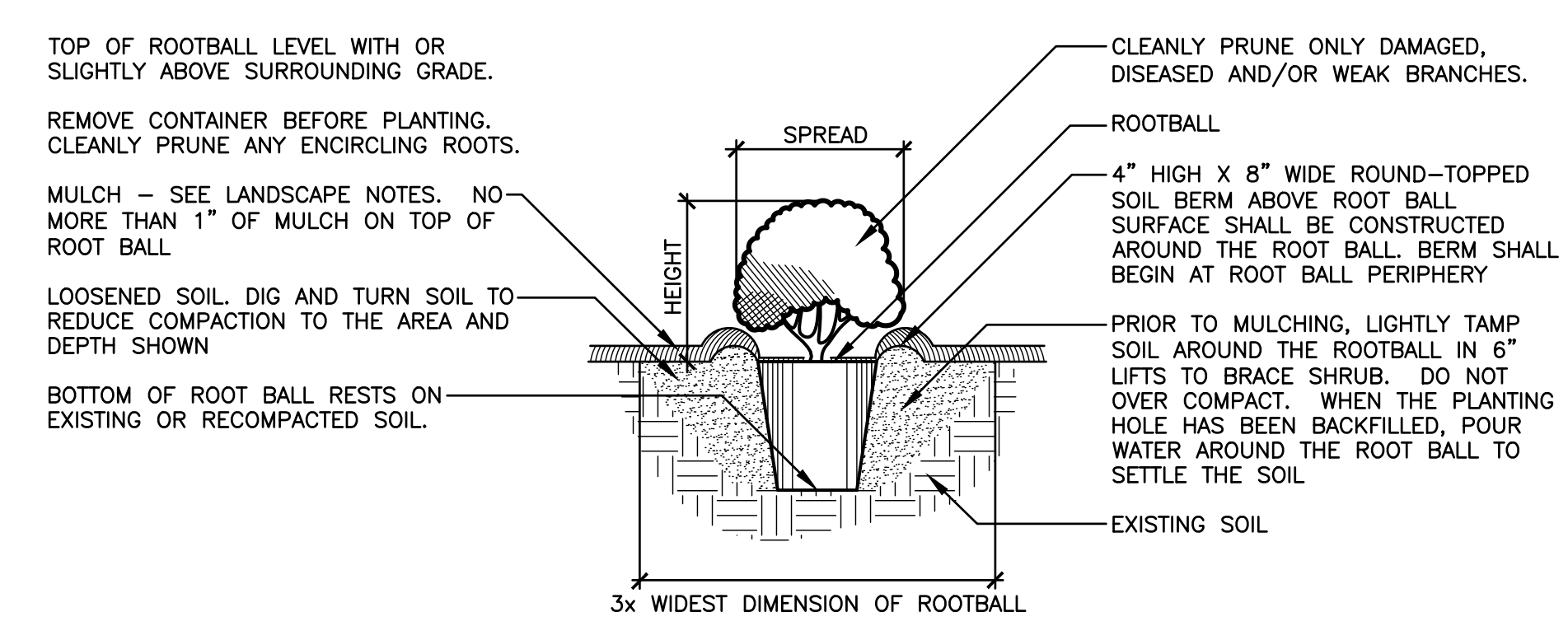
SPACING "D"	ROW "A"	NUMBER OF PLANTS
6" O.C.	5.2"	4.61
8" O.C.	6.93"	2.6
10" O.C.	8.66"	1.66
12" O.C.	10.4"	1.15
15" O.C.	13.0"	.733
18" O.C.	15.6"	.512
24" O.C.	20.8"	.33
30" O.C.	26.0"	.185
36" O.C.	30.0"	.128
48" O.C.	41.6"	.072



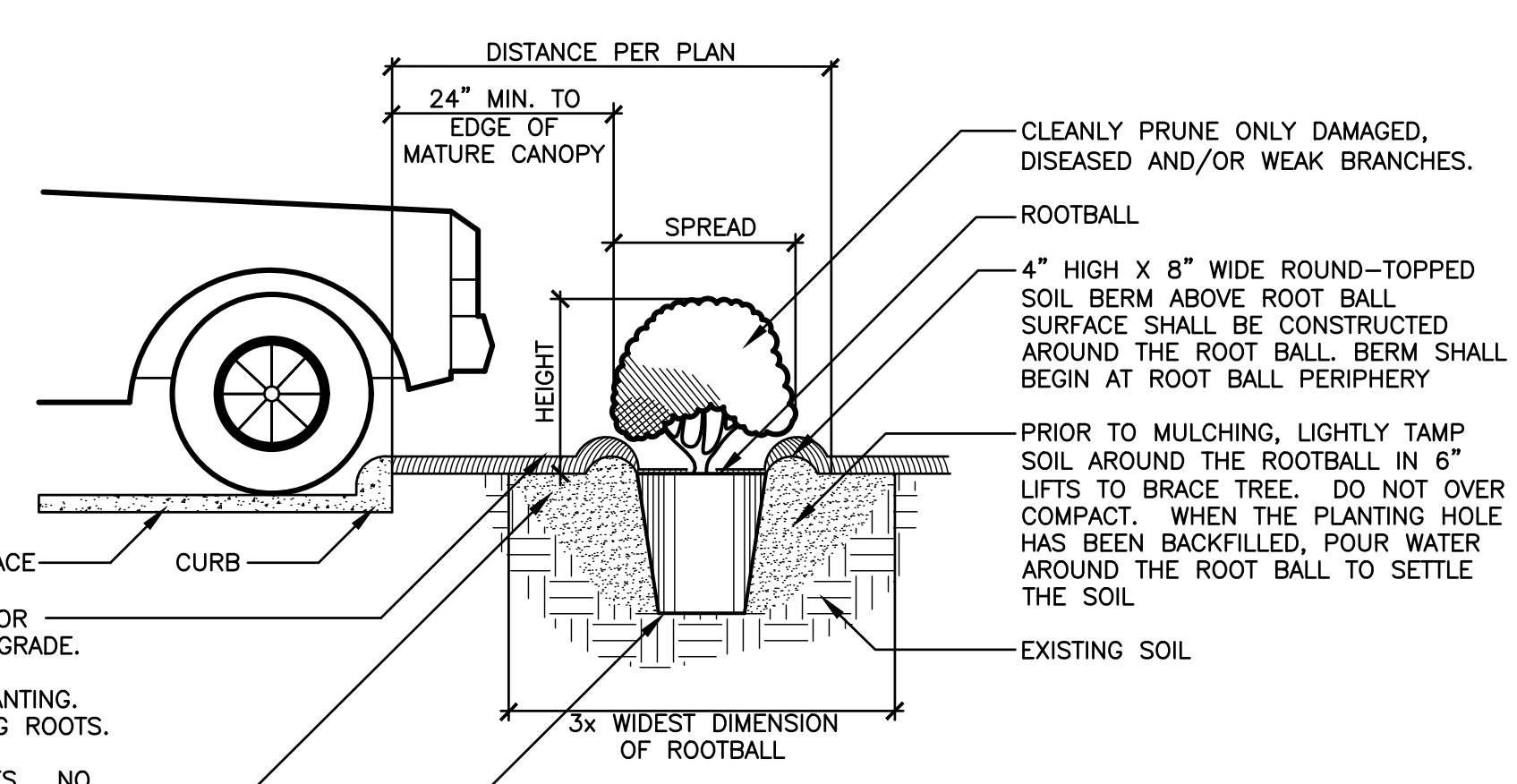
6 GROUND COVER PLANTING
LP2 SCALE: NOT TO SCALE



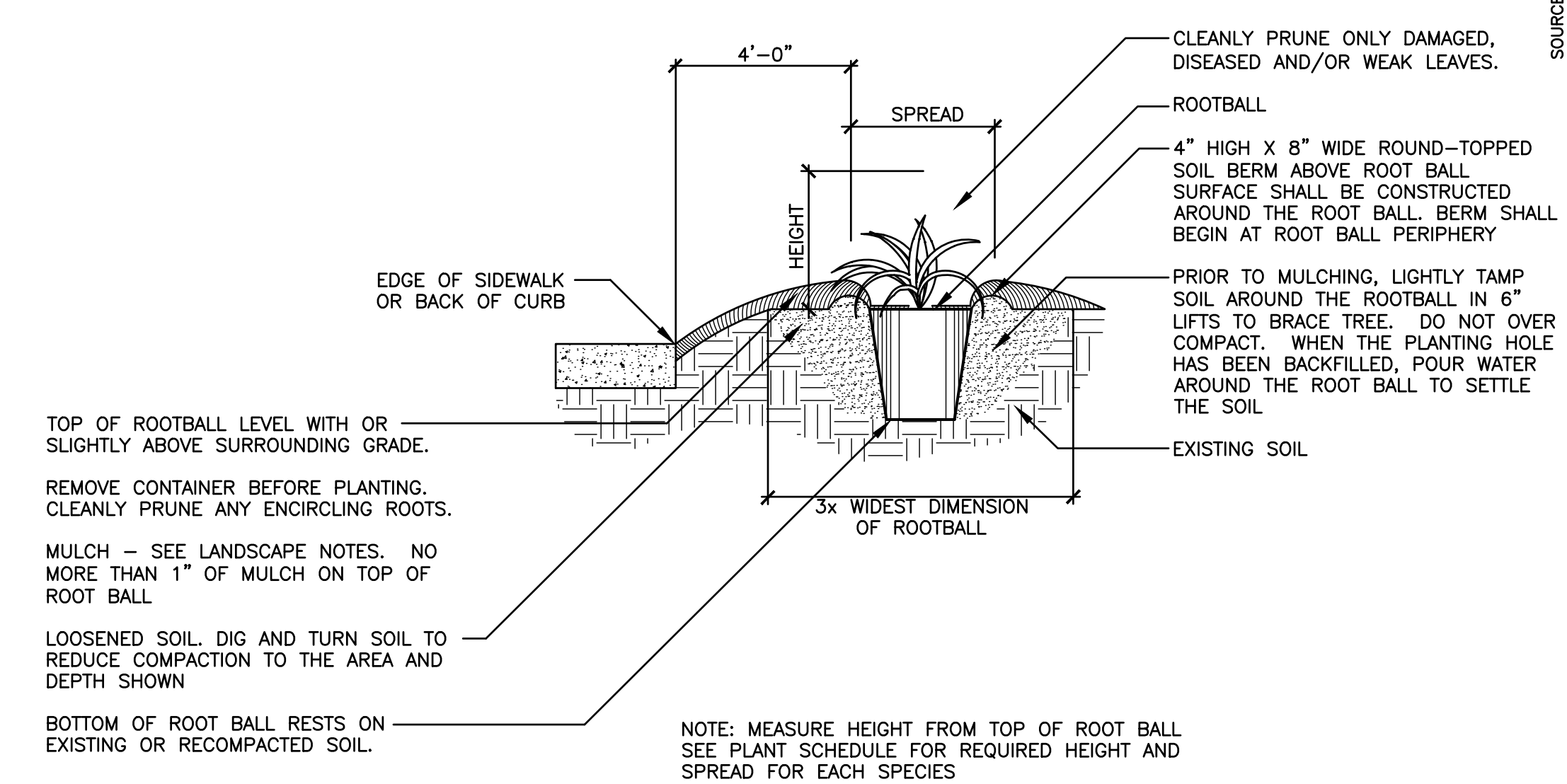
5 PLANT LAYOUT DETAIL
LP2 SCALE: NO SCALE



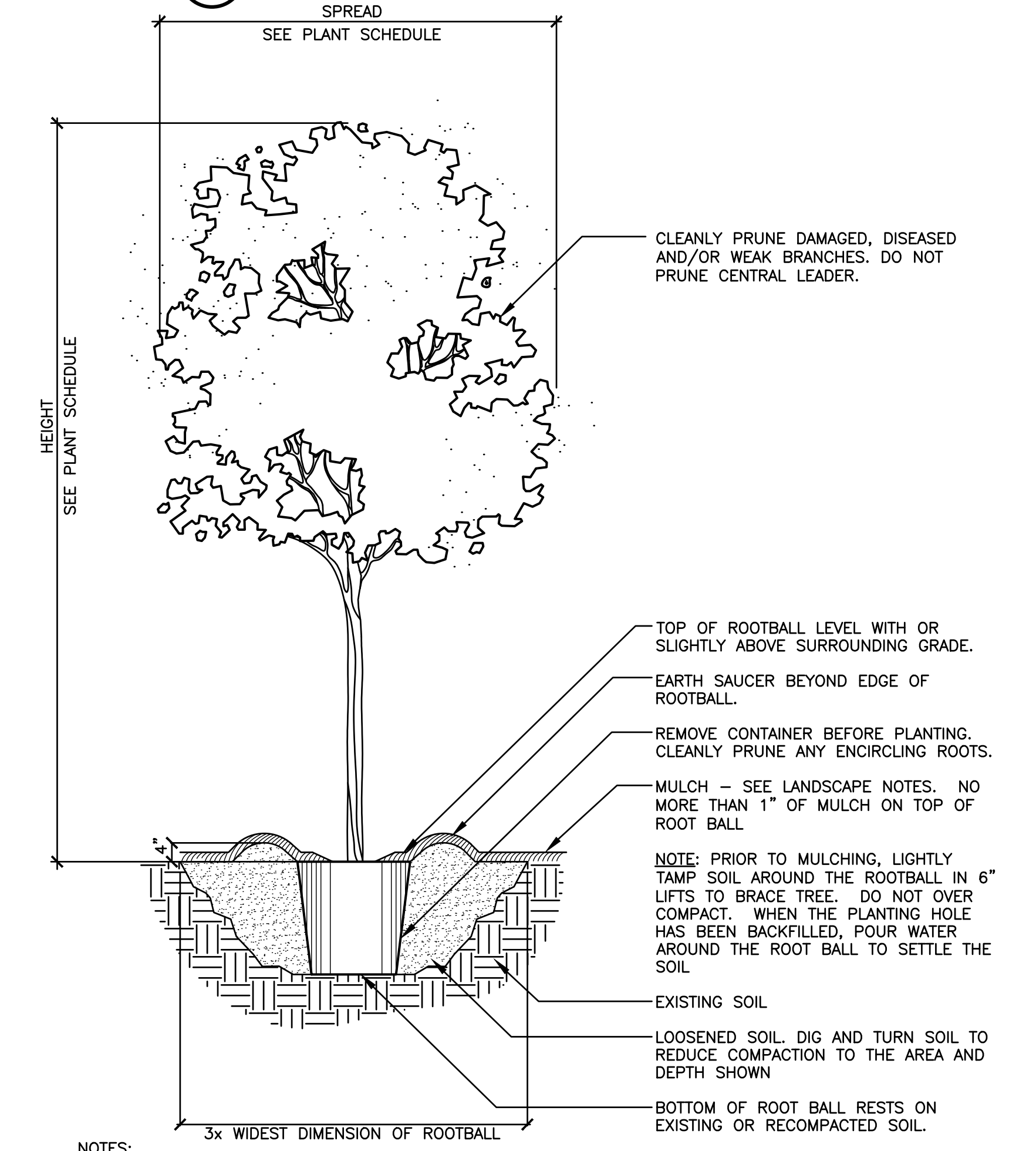
4 PLANTING DETAIL FOR SHRUBS
LP2 SCALE: NOT TO SCALE



3 HEDGE PLANTING AT PARKING AREA
LP2 SCALE: NOT TO SCALE

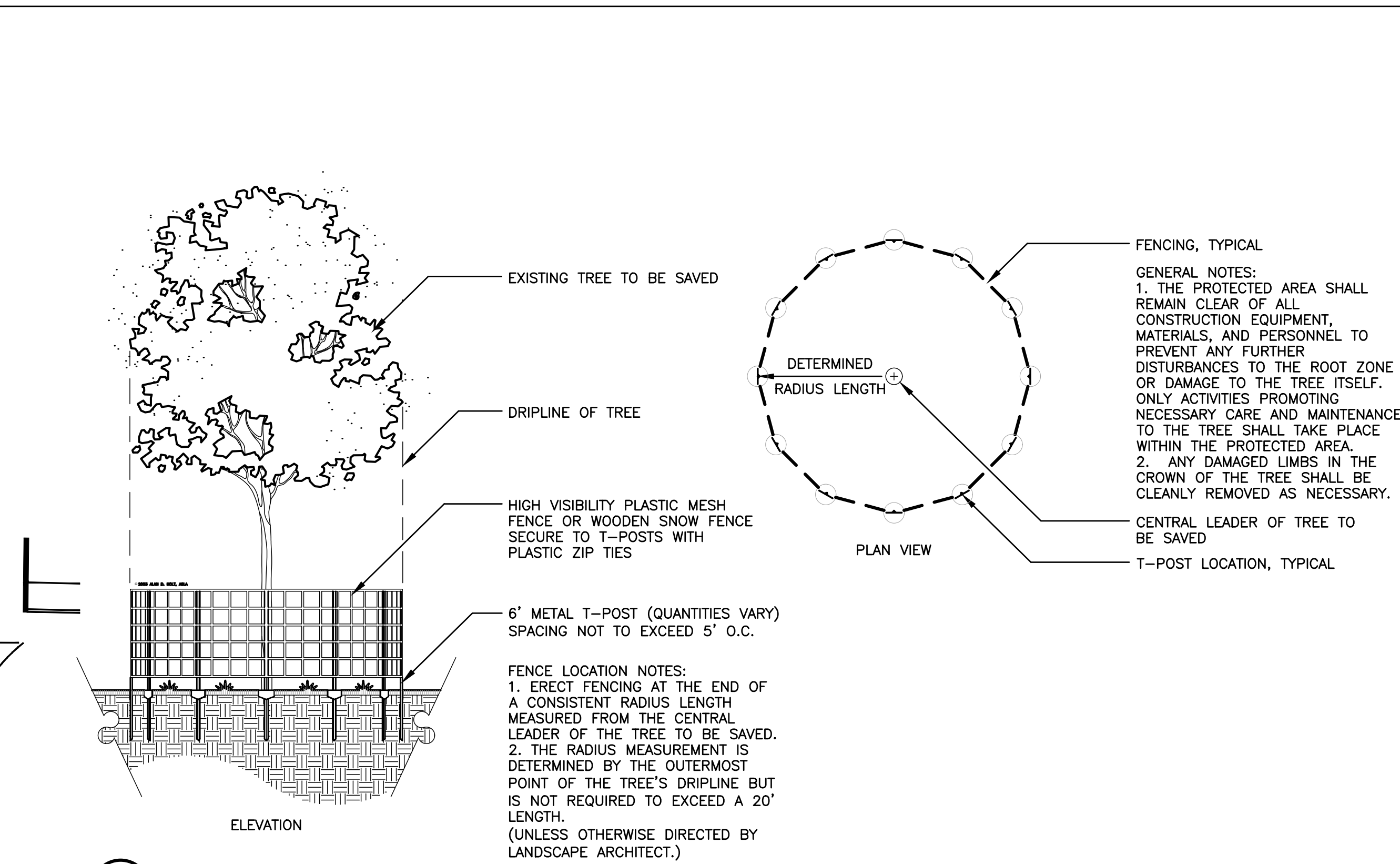
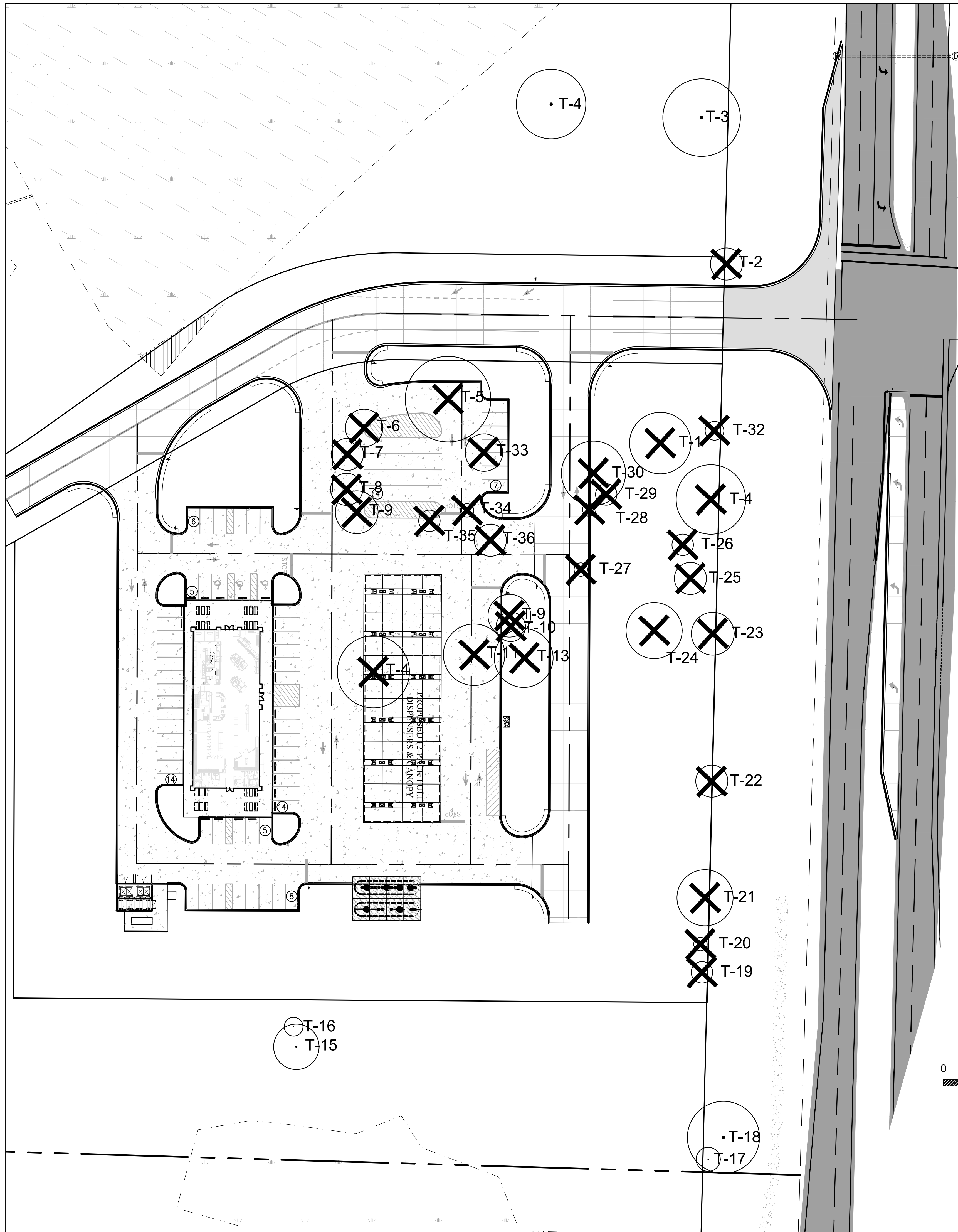


2 ORNAMENTAL GRASS PLANTING DETAIL
LP2 SCALE: NOT TO SCALE



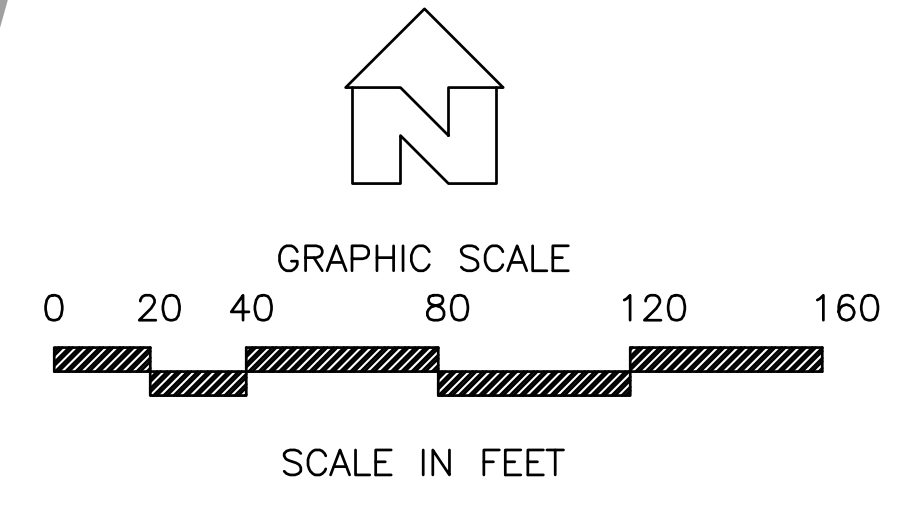
1 TREE PLANTING
LP2 SCALE: NOT TO SCALE

SOURCE DATA FOR SITE PLAN PROVIDED BY JENKINS ENGINEERING, INC.



1 TREE PROTECTION DETAIL
TP1 SCALE: NOT TO SCALE

TREE NUMBER	SCIENTIFIC NAME	COMMON NAME	DBH	PROPOSED REMOVAL	ONSITE PRESERVATION	CONDITION
1	<i>Juniperus virginiana</i>	Cedar	23.0	X		
2	<i>Quercus virginiana</i>	Live Oak	12.0	X		
3	<i>Acer rubrum</i>	Red Maple	29.0		O	
4	<i>Juniperus virginiana</i>	Cedar	26.0		O	
5	<i>Magnolia grandiflora</i>	Southern Magnolia	32.0	X		
6	<i>Ilex opaca</i>	American Holly	14.0	X		
7	<i>Carya glabra</i>	Pignut Hickory	12.0	X		
8	<i>Carya glabra</i>	Pignut Hickory	12.0	X		
9	<i>Carya glabra</i>	Pignut Hickory	16.5	X		
10	<i>Acer rubrum</i>	Red Maple	11.0	X		
11	<i>Carya glabra</i>	Pignut Hickory	23.0	X		
12	<i>Quercus laurifolia</i>	Laurel Oak	31.0	X		
13	<i>Quercus nigra</i>	Water Oak	22.0	X		
15	<i>Magnolia grandiflora</i>	Southern Magnolia	17.5		O	
16	<i>Juniperus virginiana</i>	Cedar	7.0		O	Not Protected
17	<i>Juniperus virginiana</i>	Cedar	9.0		O	
18	<i>Quercus laurifolia</i>	Laurel Oak	27.0		O	
19	<i>Quercus laurifolia</i>	Laurel Oak	8.0	X		
20	<i>Quercus laurifolia</i>	Laurel Oak	5.0	X		Not protected
21	<i>Quercus laurifolia</i>	Laurel Oak	21.0	X		
22	<i>Juniperus virginiana</i>	Cedar	12.5	X		
23	<i>Ilex opaca</i>	American Holly	16.0	X		
24	<i>Juniperus virginiana</i>	Cedar	21.0	X		
25	<i>Juniperus virginiana</i>	Cedar	12.0	X		
26	<i>Cornus florida</i>	Dogwood	8.5	X		
27	<i>Cornus florida</i>	Dogwood	5.0	X		
28	<i>Cornus florida</i>	Dogwood	5.0	X		
29	<i>Cornus florida</i>	Dogwood	8.0	X		
30	<i>Juniperus virginiana</i>	Cedar	24.0	X		
31	<i>Juniperus virginiana</i>	Cedar	15.0	X		
32	<i>Juniperus virginiana</i>	Cedar	7.0	X		Not protected
33	<i>Carya glabra</i>	Pignut Hickory	14.0	X		
34	<i>Acer rubrum</i>	Red Maple	5.5	X		Not protected
35	<i>Acer rubrum</i>	Red Maple	8.0	X		
36	<i>Acer rubrum</i>	Red Maple	12.5	X		

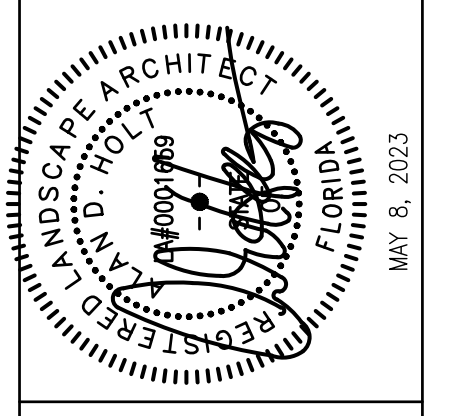


399.0 INCHES TO BE REMOVED

23029-CEFCO DEFUNIAK SPRINGS
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LANDSCAPE ARCHITECT
SOURCE DATA FOR SITE PLAN PROVIDED BY JENKINS ENGINEERING, INC.
Alan D. Holt, A.S.L.A.
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FL LA#11659
PO BOX 2549 PANAMA CITY, FL 32402
TELEPHONE: (850)914-9006 E-MAIL: alan@alanholtasla.com

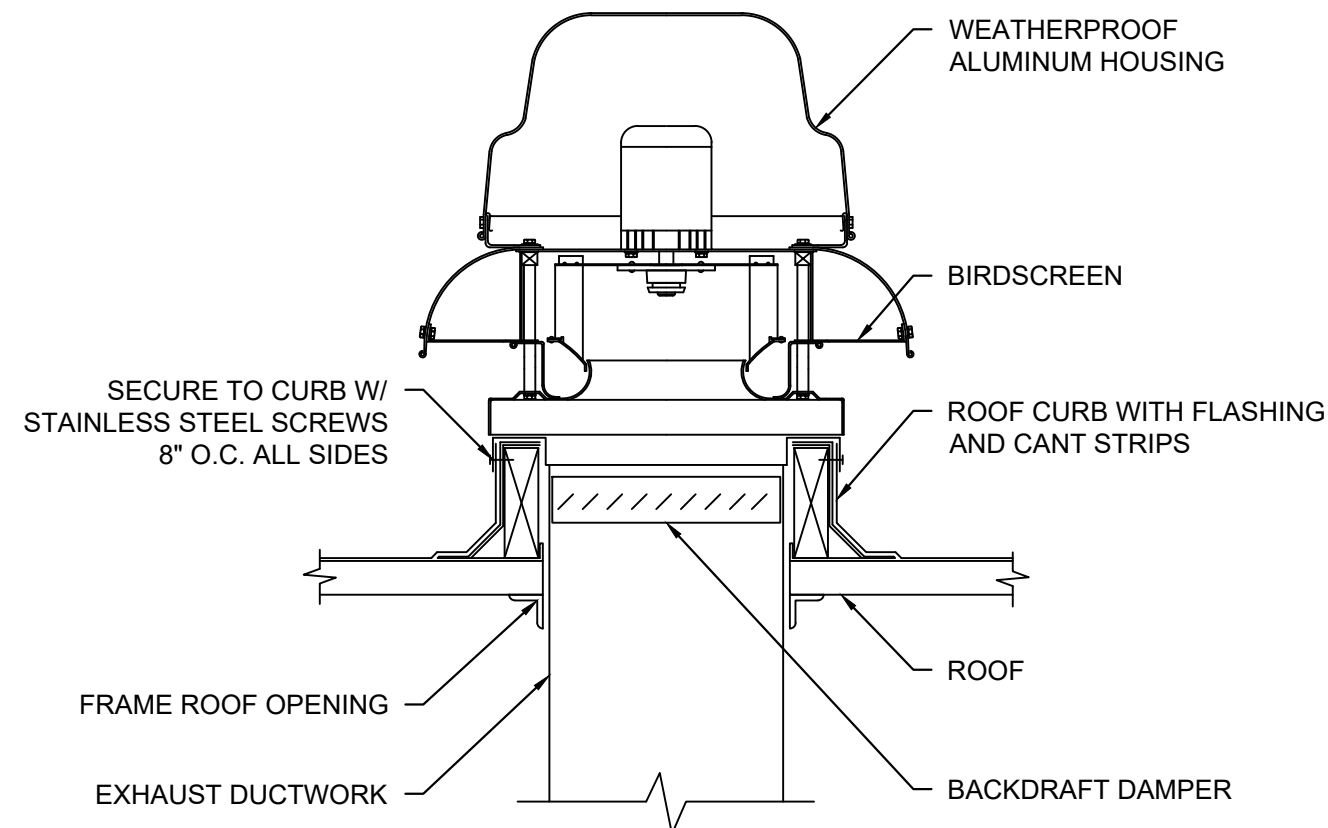
CEFCO
DEFUNIAK SPRINGS
FOR THE FIKES COMPANY
DEFUNIAK SPRINGS AT 1-10, DEFUNIAK SPRINGS, FL

DATE	ISSUE/REVISION
04/03/23	TREE MITIGATION
05/08/23	ADD TREE SYMBOL



TREE PROTECTION PLAN
SHEET NUMBER

TP1

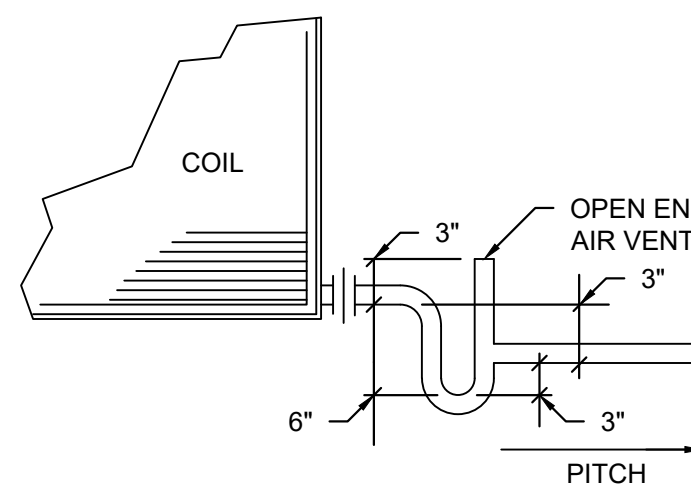


EQUIPMENT ROOF CURB INFORMATION:

MECHANICAL DESIGN:
 ROOF MOUNTED MECHANICAL UNITS SHALL BE MOUNTED ON CURBS RAISED A MINIMUM OF 8 INCHES ABOVE THE ROOF SURFACE, OR WHERE ROOFING MATERIALS EXTEND BENEATH THE UNIT. ON RAISED EQUIPMENT SUPPORTS PROVIDING A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH TABLE 1510.10.

MOUNTED MECHANICAL UNITS	
WIDTH OF MECHANICAL UNIT (INCHES)	MINIMUM CLEARANCE ABOVE SURFACES (INCHES)
< 24	14
25 < 36	18
37 < 48	24
49 < 60	30
> 60	48

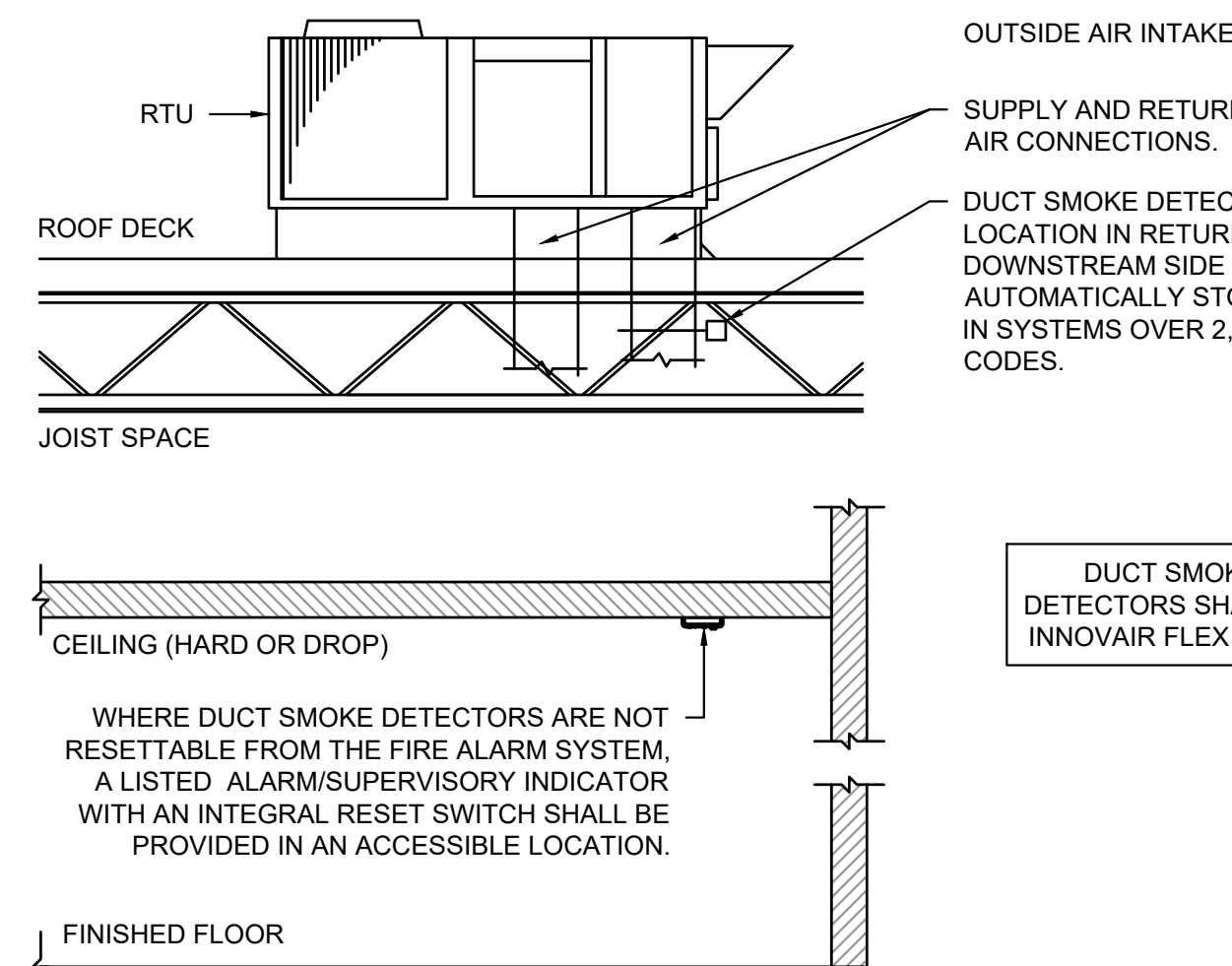
ROOF MOUNTED EXHAUST FAN DETAIL SCALE N.T.S. 1



NOTES:

- CONDENSATE PIPING SHALL BE OF CORROSION RESISTANT MATERIAL AND SHALL NOT BE SMALLER THAN THE DRAIN CONNECTION ON THE APPLIANCE.
- CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4".
- MINIMUM HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN 1/8 UNIT VERTICAL IN 12 UNITS HORIZONTAL.
- CONDENSATE PUMPS LOCATED IN UNINHABITABLE SPACES, SUCH AS ATTICS AND CRAWL SPACES, SHALL BE CONNECTED TO THE APPLIANCE OR EQUIPMENT SERVED SUCH THAT WHEN THE PUMP FAILS, THE APPLIANCE OR EQUIPMENT WILL BE PREVENTED FROM OPERATING.

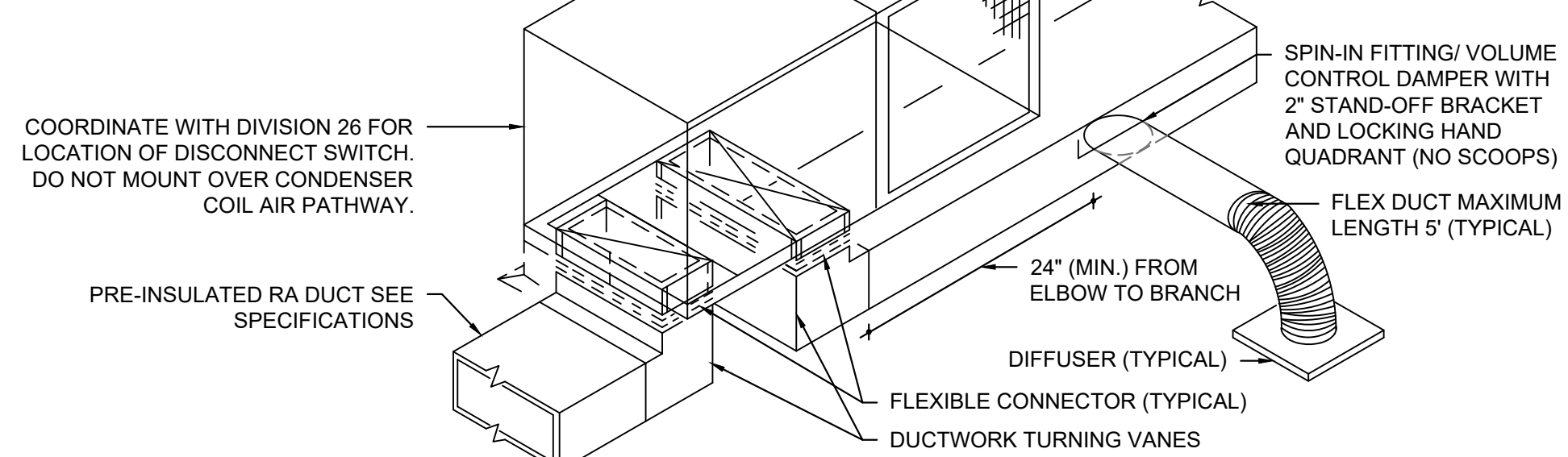
CONDENSATE DRAIN TRAP DETAIL SCALE N.T.S. 4



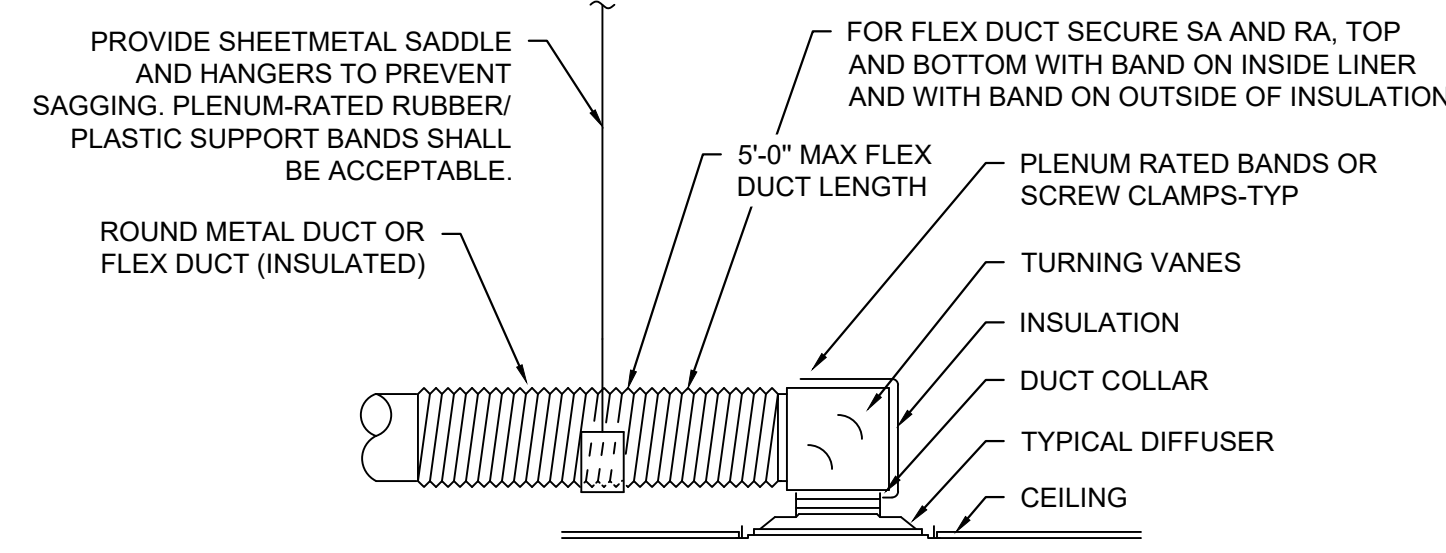
TYPICAL HVAC DUCT SMOKE DETECTOR DETAIL SCALE N.T.S. 6

ROOFTOP UNIT NOTES:

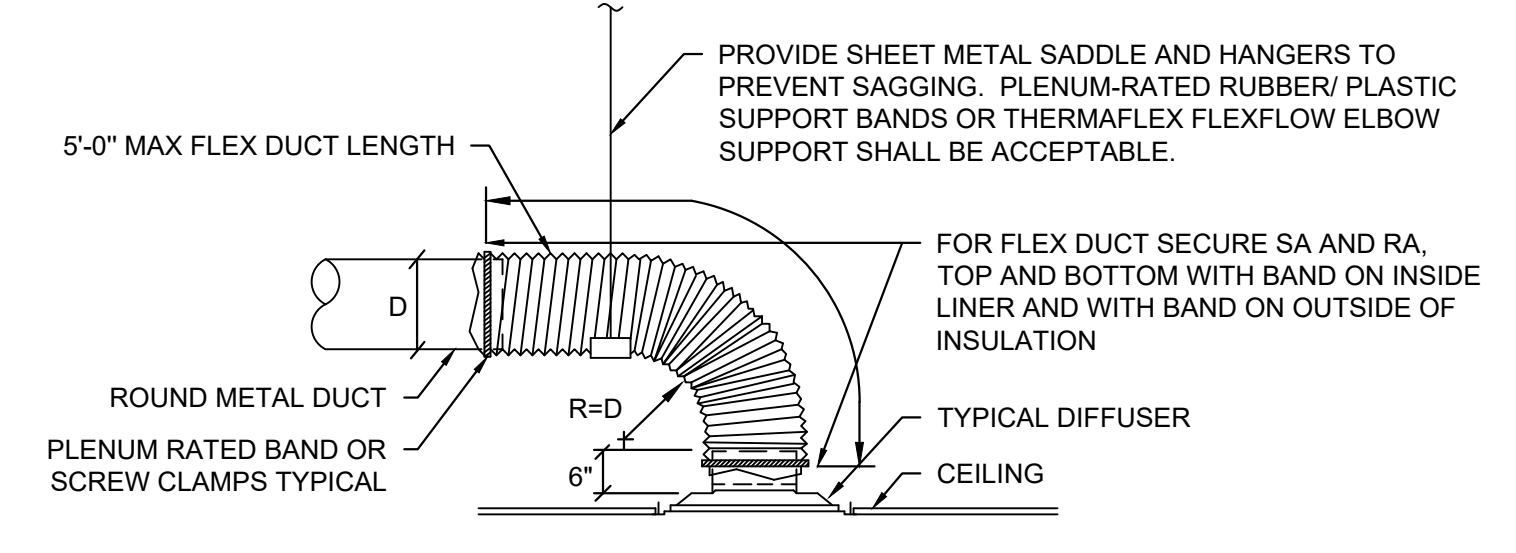
- ALL POWER AND CONTROL WIRING FOR ROOFTOP-MOUNTED HVAC EQUIPMENT SHALL BE RUN THROUGH THE BASE INSIDE THE CURB.
- UNITS SHALL BE MOUNTED LEVEL. SEE ARCHITECTURAL PLANS FOR ROOF PENETRATION FLASHING DETAILS.
- SEE ARCHITECTURAL CURB DETAILS. IT IS VERY IMPORTANT CURB CORNERS AND FLASHING ARE SEALED WATER-TIGHT.



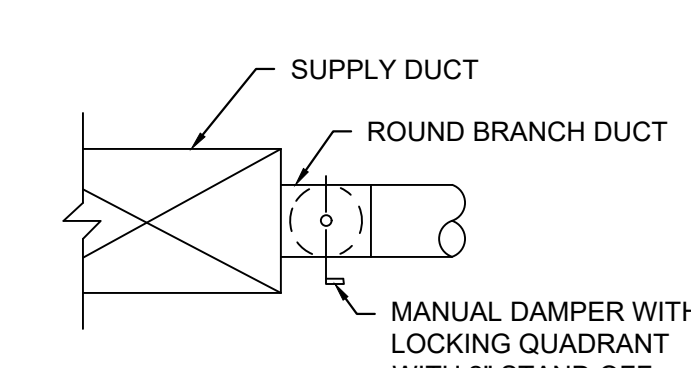
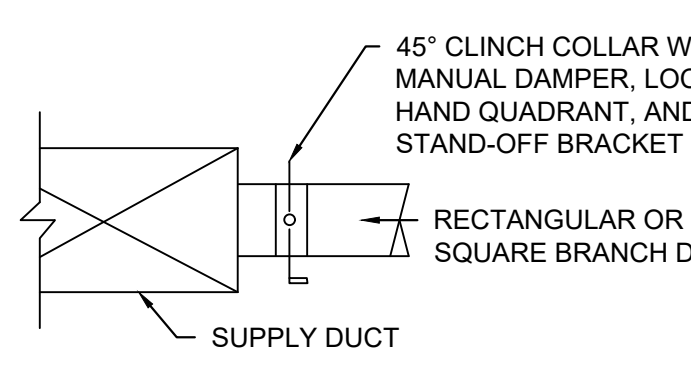
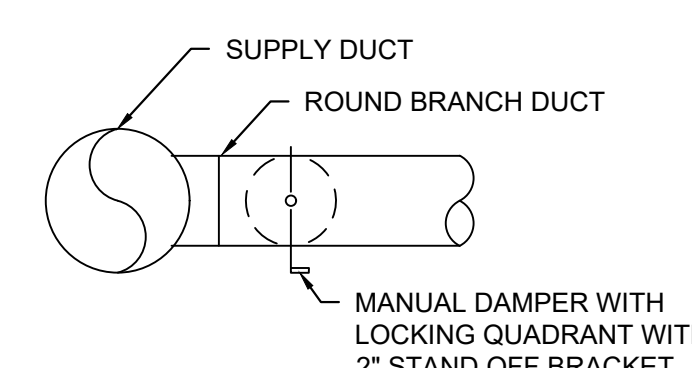
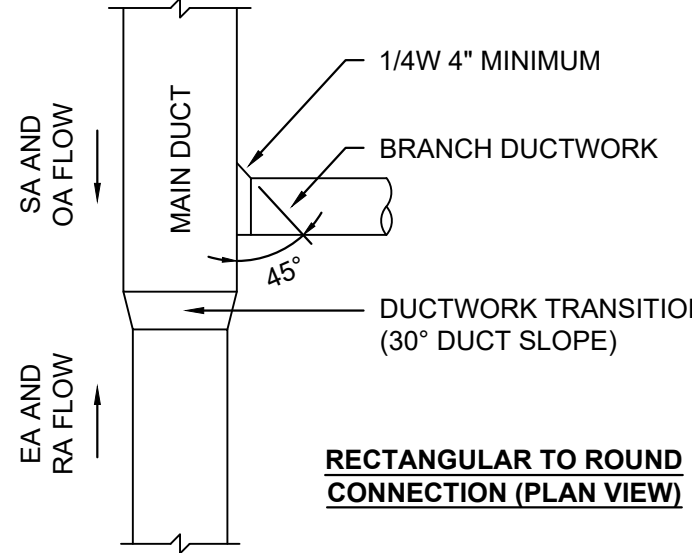
ROOF TOP UNIT W/DISTRIBUTION DUCT DETAIL SCALE N.T.S. 8



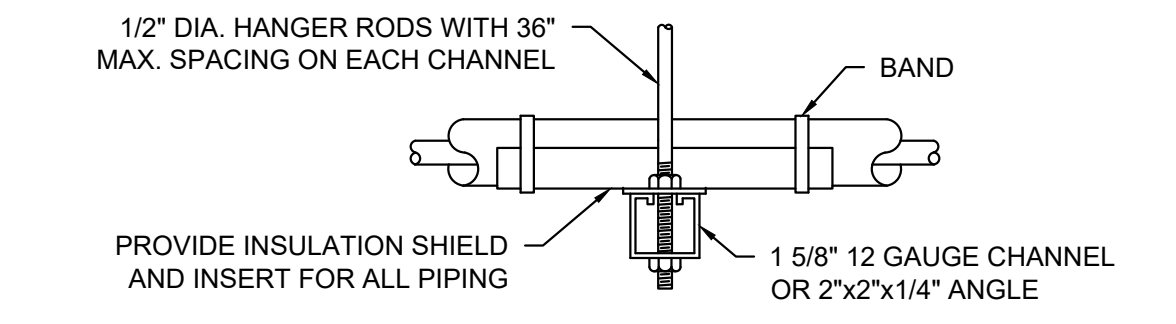
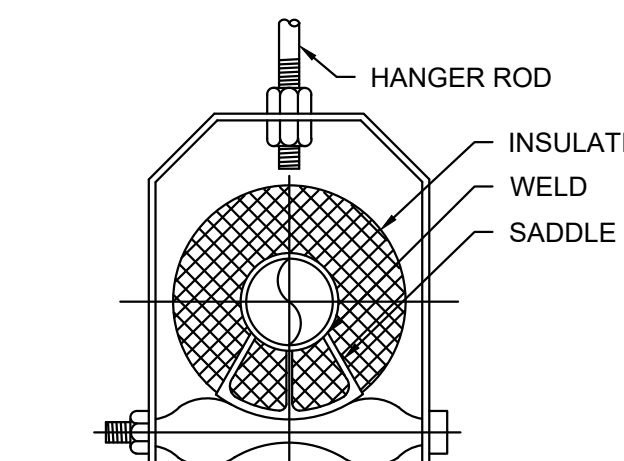
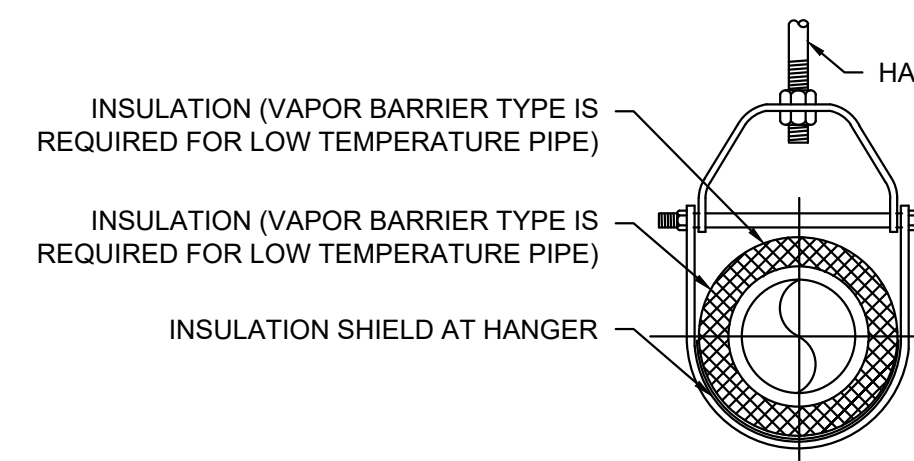
DIFFUSER CONNECTION DETAIL - LOW CLEARANCE SCALE N.T.S. 2



DIFFUSER CONNECTION DETAIL - TYPICAL CLEARANCE SCALE N.T.S. 3



BRANCH DUCT CONNECTION DETAIL SCALE N.T.S. 5



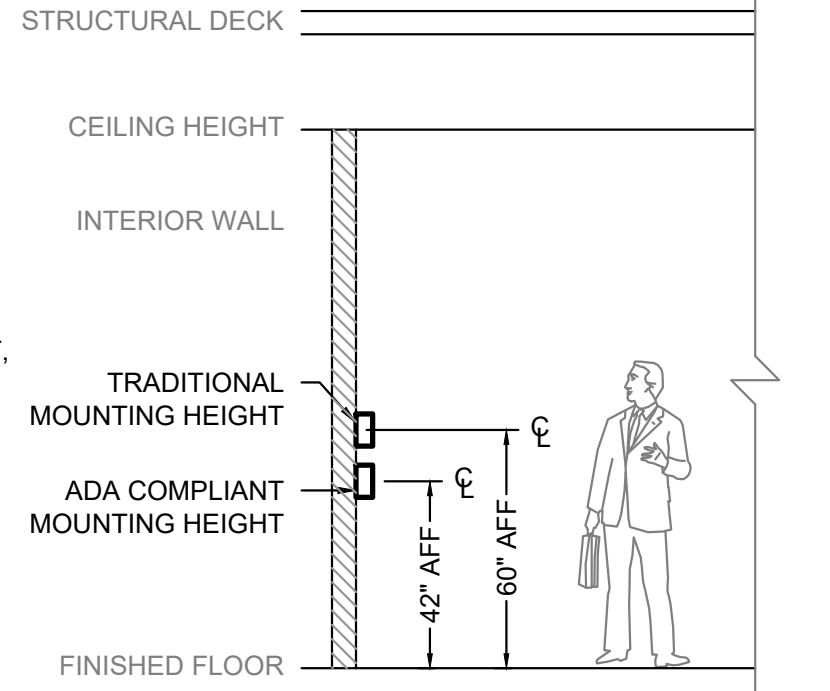
MAXIMUM PIPE/TUBING SUPPORT SPACING (FT)											
NOM. SIZE THRU 3/4"	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10
PIPE	7 (FT)	7	7	9	10	11	12	14	16	17	22
TUBING	5 (FT)	6	7	8	8	9	10	12	13	14	-

(SIDE VIEW) TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

PIPE HANGERS DETAIL SCALE N.T.S. 7

NOTES:

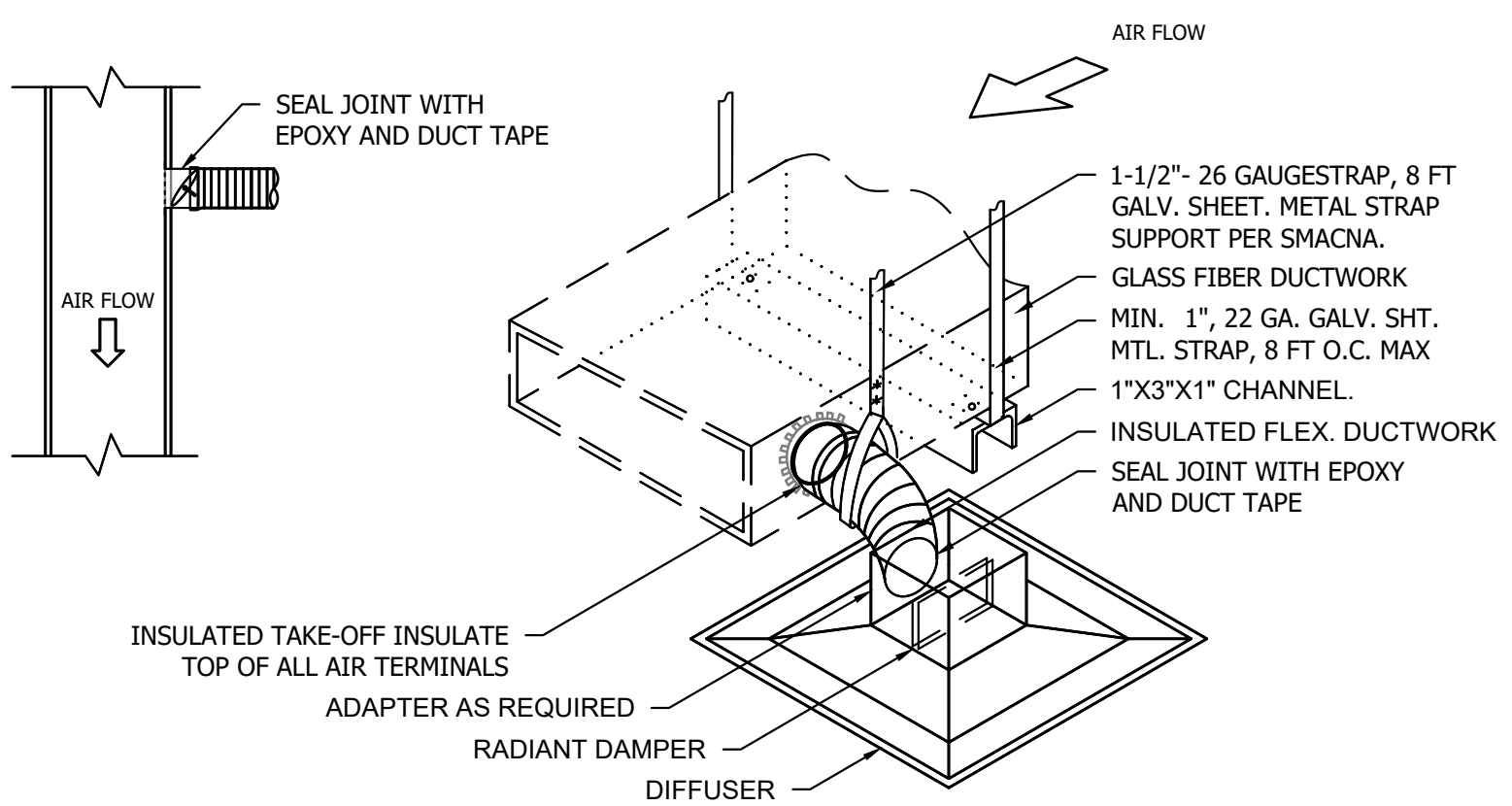
- ALL THERMOSTATS SHALL BE INSTALLED AT 42" AFF UNLESS NOTED OTHERWISE.
- MAINTAIN 16" FROM ADJACENT EXTERIOR WALLS. WHERE INSTALLATION IS REQUIRED ON EXTERIOR WALL, PROVIDE INSULATED MOUNTING PAD FOR BASE PLATE.
- REFRAIN FROM INSTALLING THERMOSTAT NEAR ANY HEATING OR COOLING SOURCES, SUCH AS EQUIPMENT, WINDOWS, OR UNDER SUPPLY DIFFUSERS.
- ENSURE THERMOSTAT IS INSTALLED IN CORRECT ORIENTATION AND ACCORDING TO ALL MANUFACTURER INSTALLATION INSTRUCTIONS.
- COORDINATE FINAL LOCATION WITH IN FIELD CONDITIONS, MAINTAIN CLEARANCE FROM NEARBY SWITCHES AND OTHER DEVICES AS NEEDED.



THERMOSTAT MOUNTING DETAIL SCALE N.T.S. 9

NOTES:

- SEE SMACNA STANDARDS FOR ADDITIONAL DETAILS.
- NOT MORE THAN ONE TRANSVERSE JOINT BETWEEN HANGERS.



FIBERGLASS DUCT HANGER DETAILS SCALE N.T.S. 10

DETAILS NOTE: NOT ALL DETAILS ON THIS SHEET MAY APPLY TO THIS PROJECT. REFER TO PROJECT MECHANICAL PLANS FOR DETAILS APPLICABLE TO THIS PROJECT.

REVISED PER	DATE	REVISION
REVISED PER RPT	05/17/2024	
ISSUE CLIENT COMMENTS - REV 1	01/04/2024	
ISSUE FOR PERMIT	03/31/2023	

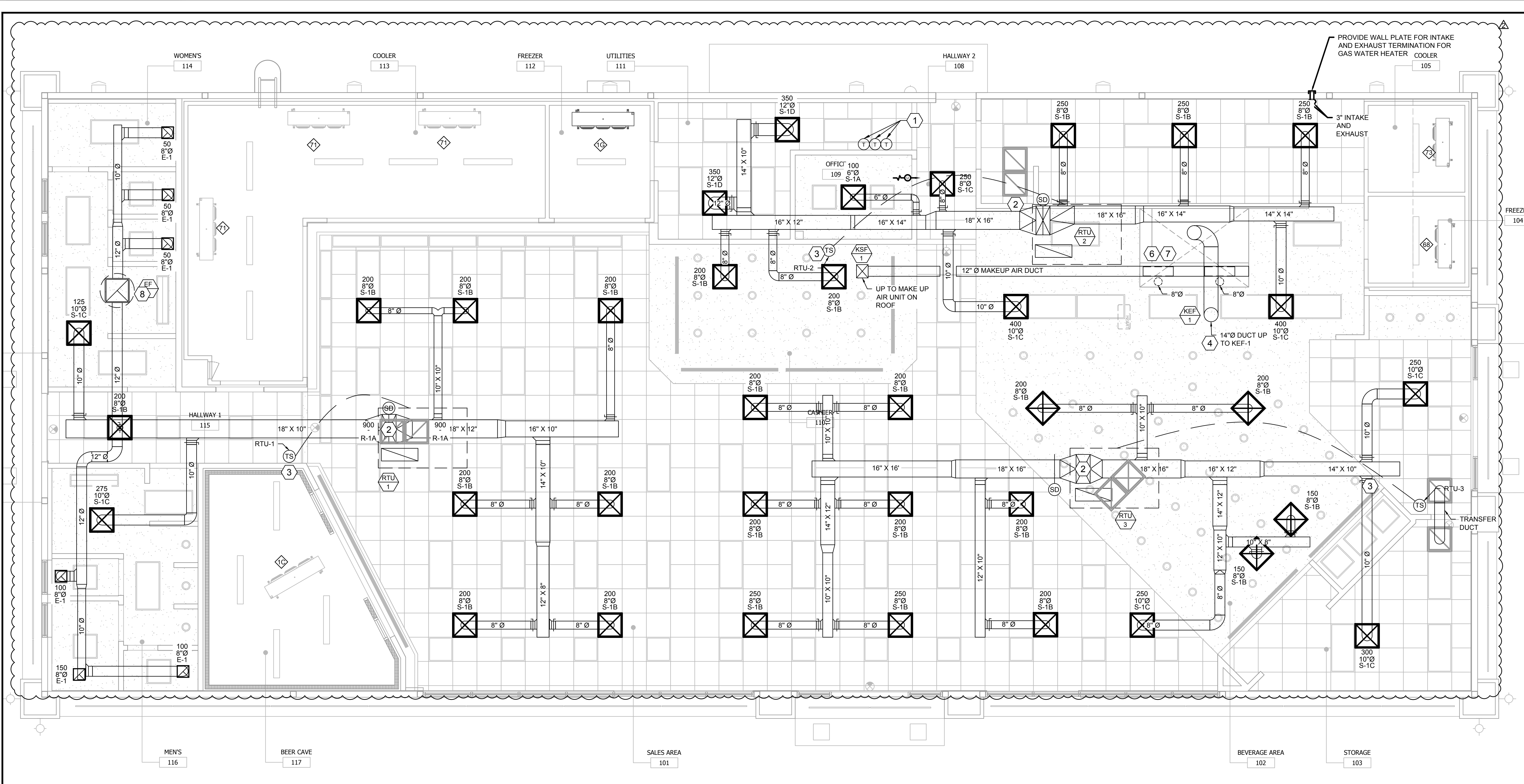
INFINITY
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RICHARD KIMBALL, P.E.
 FL REG. NO. 79067

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
MECHANICAL DETAILS

Project No. 170-95.00
 Drawn By: M1.0
 Checked By:



MECHANICAL PROPOSED PLAN SCALE 1/4" = 1'-0"

- PLAN SHEET NOTES:**
- ① THERMOSTAT LOCATIONS FOR RTU-1, RTU-2, AND RTU-3. REFER TO DETAIL FOR MOUNTING HEIGHT AND INSTRUCTIONS. PROVIDE CLEAR LOCKABLE COVER. INSTALL SMOKE DETECTOR REMOTE TEST RESET SWITCH IN AUDIBLE AND VISIBLE LOCATION NEARBY. REFER TO DETAIL.
 - ② SUPPLY AND RETURN DUCTWORK UP TO MECHANICAL UNIT LOCATED ON ROOF. REFER TO ROOF PLAN FOR EXACT LOCATION.
 - ③ ROOFTOP UNIT REMOTE TEMPERATURE SENSOR. MOUNT AT 6' A.F.F.
 - ④ 14" ROUND DUCT UP TO KEF-1 ON ROOF. REFER TO ROOF PLAN FOR EXACT LOCATION.
 - ⑤
 - ⑥ GREASE HOOD DUCT SYSTEMS SHALL BE DESIGNED AND INSTALLED SO AS TO PROVIDE AN AIR VELOCITY WITHIN THE DUCT SYSTEM OF NOT LESS THAN 1,500 FT/MIN AND NO GREATER THAN 2,500 FT/MIN. TO PREVENT ACCUMULATION OF GREASE, DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AT A SLOPE OF NOT LESS THAN 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL TOWARD THE HOOD. WHERE HORIZONTAL DUCT EXCEEDS 75' IN LENGTH, SLOPE SHALL NOT BE LESS THAN ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL PER MECHANICAL CODE.
 - ⑦ TYPE-1 9' KITCHEN HOOD WITH SUPPRESSION SYSTEM. REFER TO CAPTIVEAIRE DETAILS AND SUBMITTAL FOR MORE INFORMATION. PROVIDE MANUAL PULL STATION.
 - ⑧ 12" Ø ROUND EXHAUST DUCT UP TO EF-1. SEE ROOF PLAN FOR LOCATION OF FAN.

No.	Revision/Issue	Date
3	REVISED PER RFI	05/17/2024
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/31/2023

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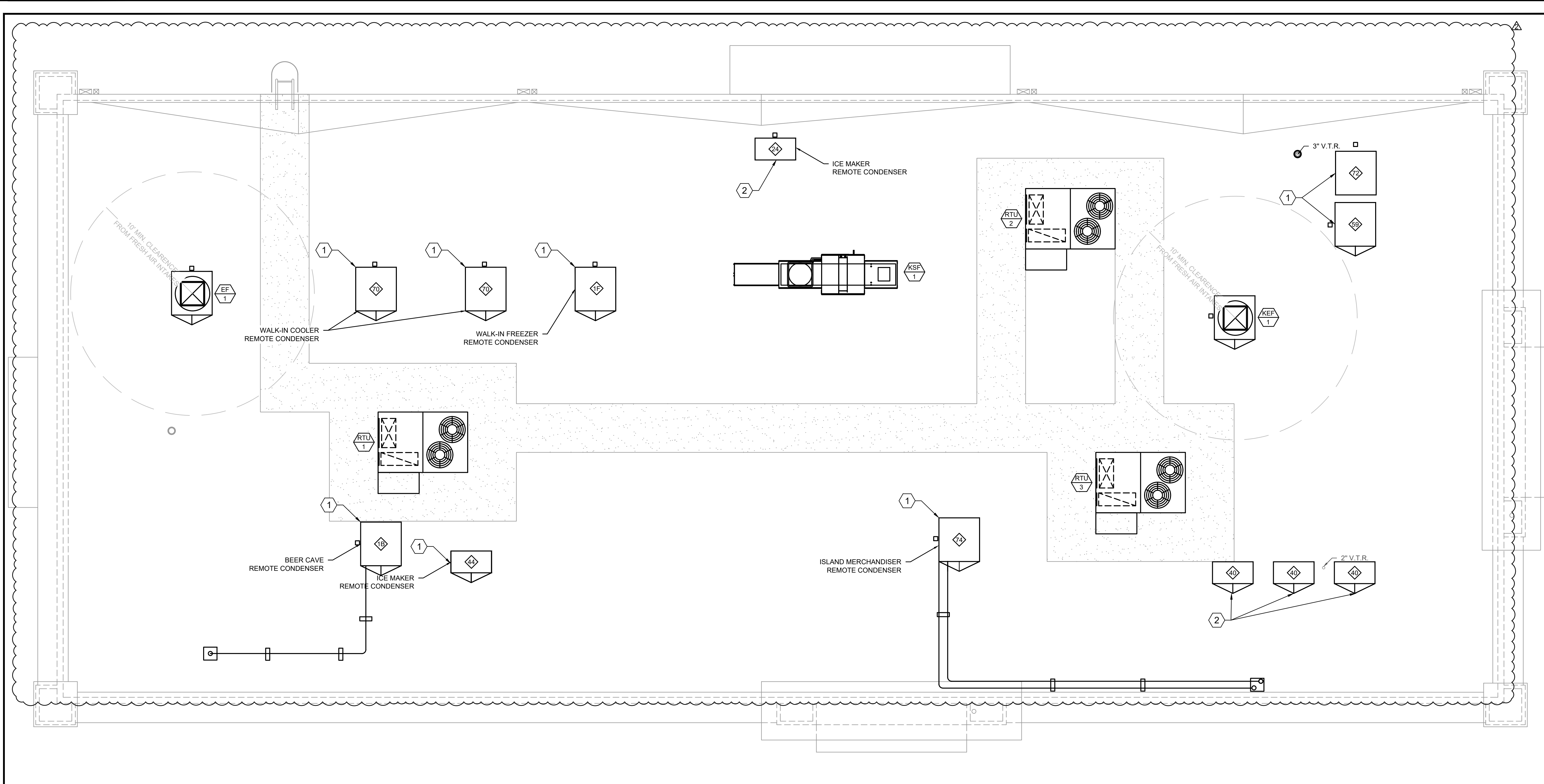
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
MECHANICAL PROPOSED PLAN

Project No.
 170-95.00

Sheet
M2.0

Drawn By:
 Checked By:



MECHANICAL PROPOSED ROOF PLAN
 SCALE
 1/4" = 1'-0"
 Date

PLAN SHEET NOTES:

- ① EVAPORATOR CONDENSING UNIT. REFER TO ARCHITECTURAL AND EQUIPMENT SCHEDULES FOR EQUIPMENT INFORMATION.
- ② ICE MAKER REMOTE CONDENSER. REFER TO ARCHITECTURAL FOR EQUIPMENT INFORMATION.

No.	Revision/Issue	Date
1	ISSUE FOR PERMIT	03/12/2023
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
3	REVISED PER RFI	05/17/2024

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Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
MECHANICAL PROPOSED ROOF PLAN

Project No.
 170-95.00

Sheet
M3.0

Drawn By:
 Checked By:

FOR REFERENCE ONLY

REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION

FOR QUESTIONS, CALL THE
Austin Office
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PHONE: (512) 539 - 0483
EMAIL: reg47@captiveaire.com

HOOD INFORMATION - JOB#6251422

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL				SP	END TO END
1	HD-1	5424 ND-2-ACSP-F	CAPTIVEAIRE	8' 0"	600 DEG	I	HEAVY	225	1800		4'	14'	1800	1684	-0.930"	1440	500	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE	ELECTRICAL			SWITCHES
1	HD-1	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	877 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	HD-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00" HIGH X 108.00" LONG 430 SS VERTICAL. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. RISER SENSOR INSTALL 3IN DBL.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S)				
						MUA	LENG	DIA	CFM	SP
1	HD-1	Front	108"	24"	6"	12'	28'		720	0.168'
						12'	28'		720	0.168'
						8'	16'		250	0.059'
						8'	16'		250	0.059'

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

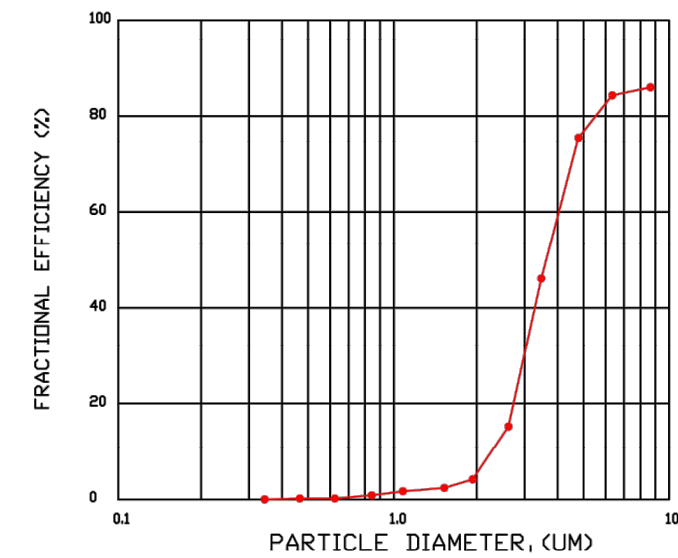
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

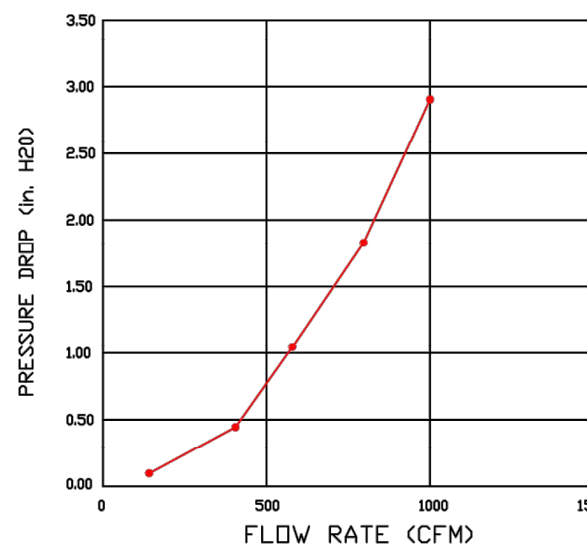
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFFA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE
HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT
____' - ____"
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

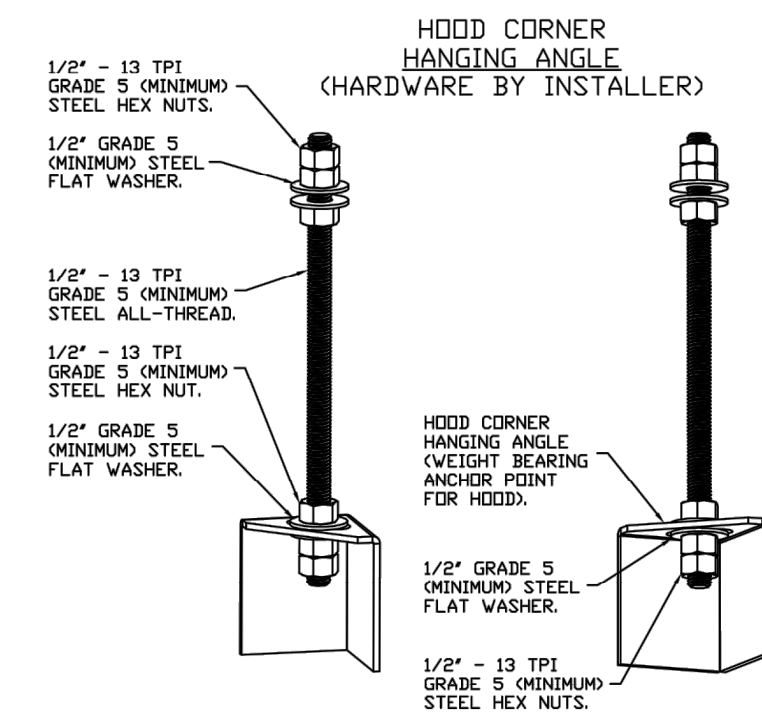
APPROVED AS NOTED
APPROVED WITH NO EXCEPTION TAKEN
REVISE AND RESUBMIT
SIGNATURE _____
YOUR TITLE _____ DATE _____

CAPTIVEAIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

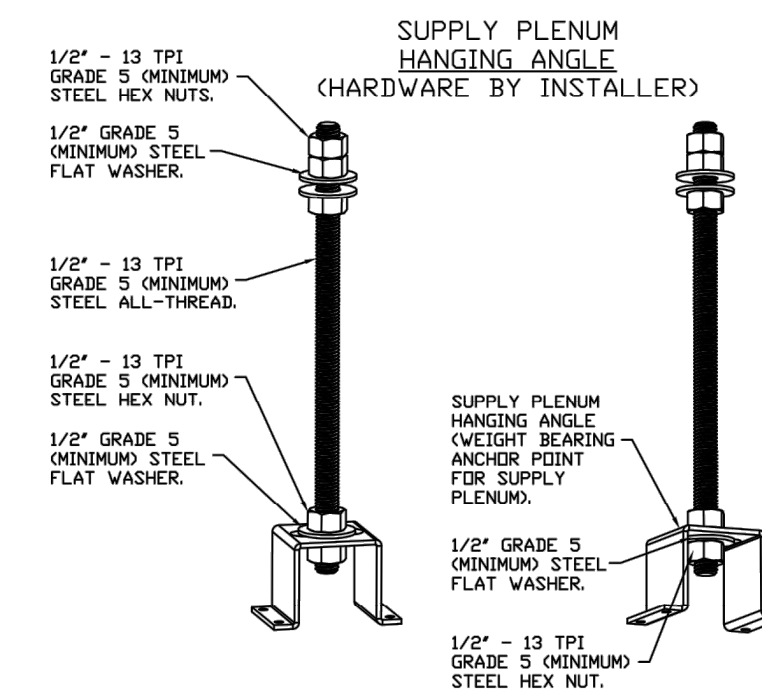
CAPTIVEAIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF
ETL LISTED #3054804-001



ASSEMBLY INSTRUCTIONS

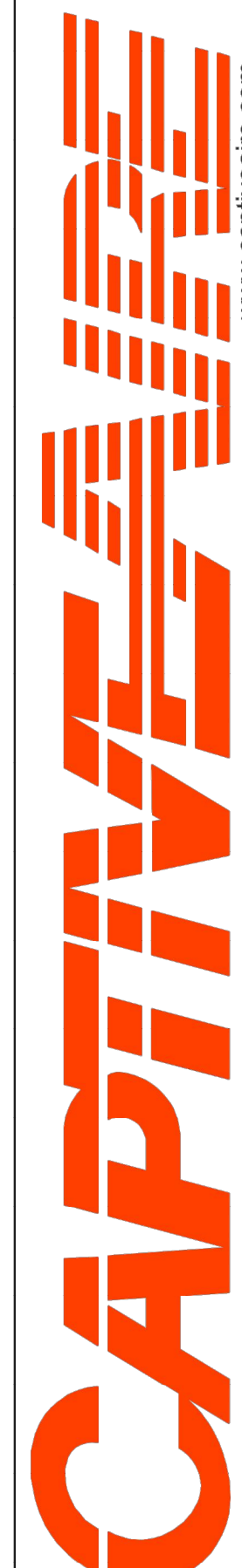
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS	
DESCRIPTION	DATE



www.captiveaire.com

Austin Office

11200 Manchaca Rd., Suite 302, Austin, TX, 78748 PHONE: (512) 539-0483 FAX: 9197475622 EMAIL: reg47@captiveaire.com

CEFCO #446 Defuniak Springs, FL - MPU
NWC I-10 Hwy 331,
DEFUNIAK SPRINGS, FL, 32433

DATE: 9/29/2023
DWG.#: 6251422
DRAWN BY: JLB-47
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

REVISED PERMIT	ISSUE CLIENT COMMENTS - REV 1	ISSUE FOR PERMIT	Revision/Issue	Date
3				
2				
1				

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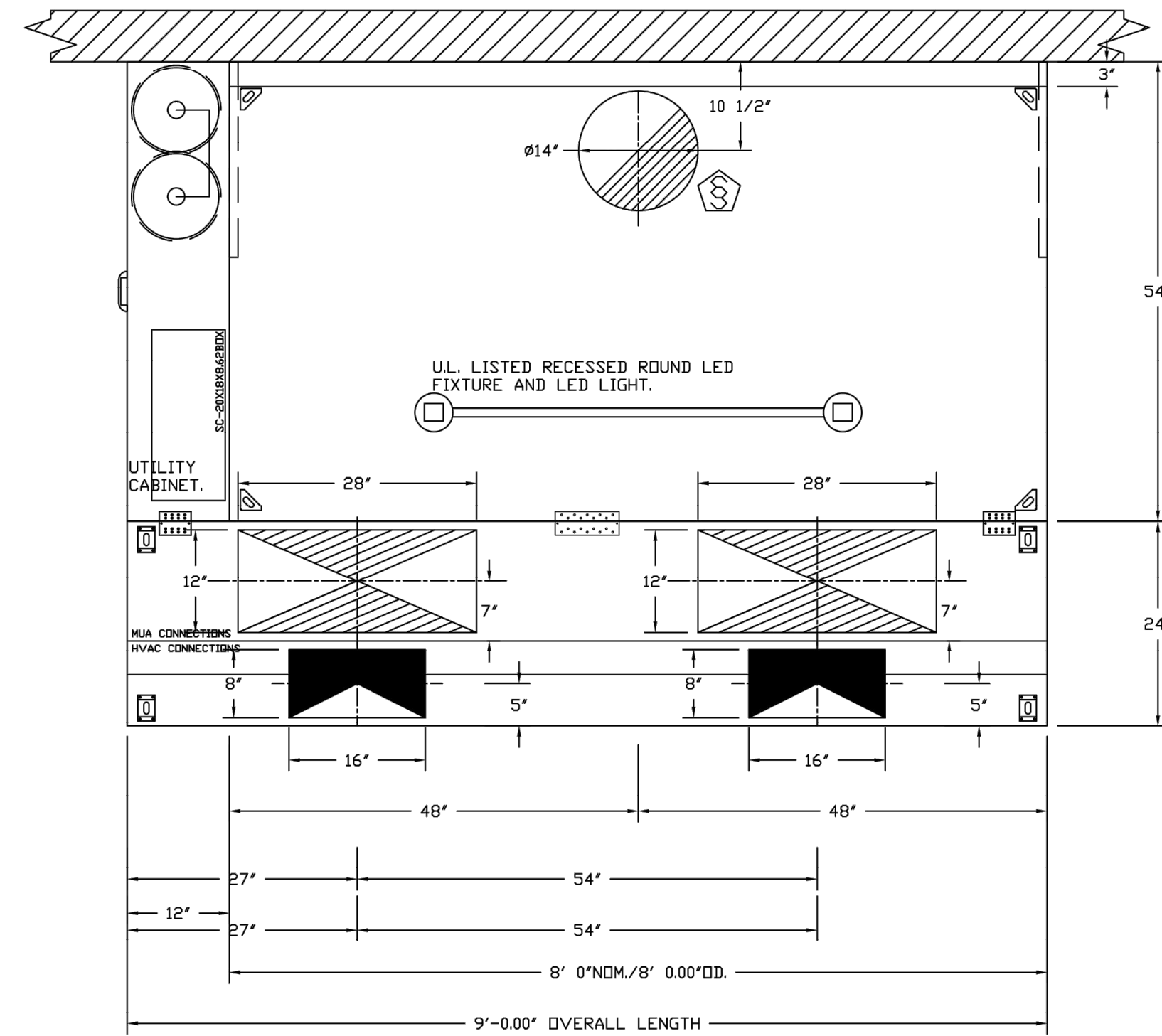
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
KITCHEN EXHAUST, HOOD AND MAKEUP AIR UNIT DETAILS

Project No. 170-95.00
Drawn By: **MC0.1**
Checked By: _____

FOR REFERENCE ONLY

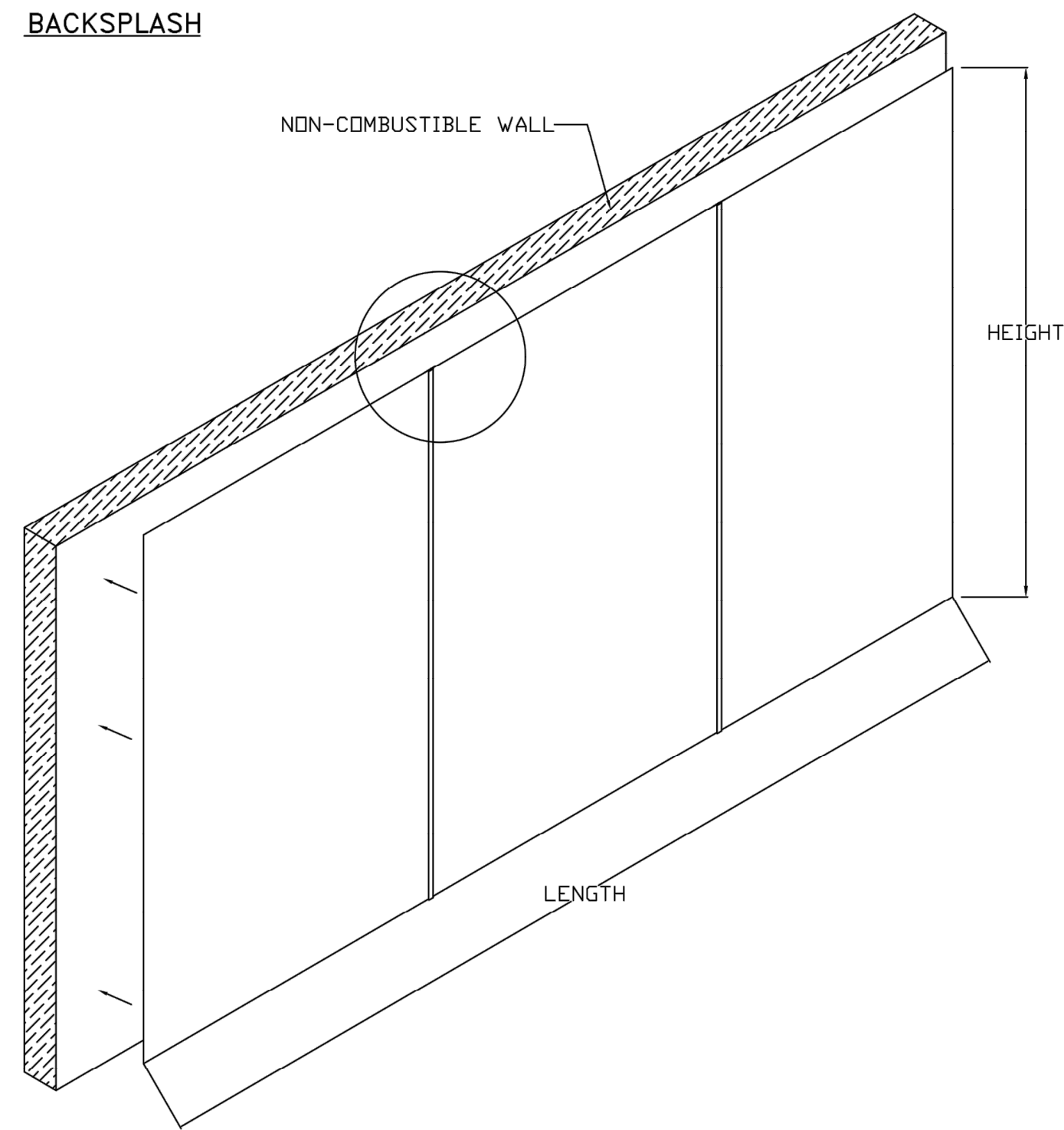
REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION



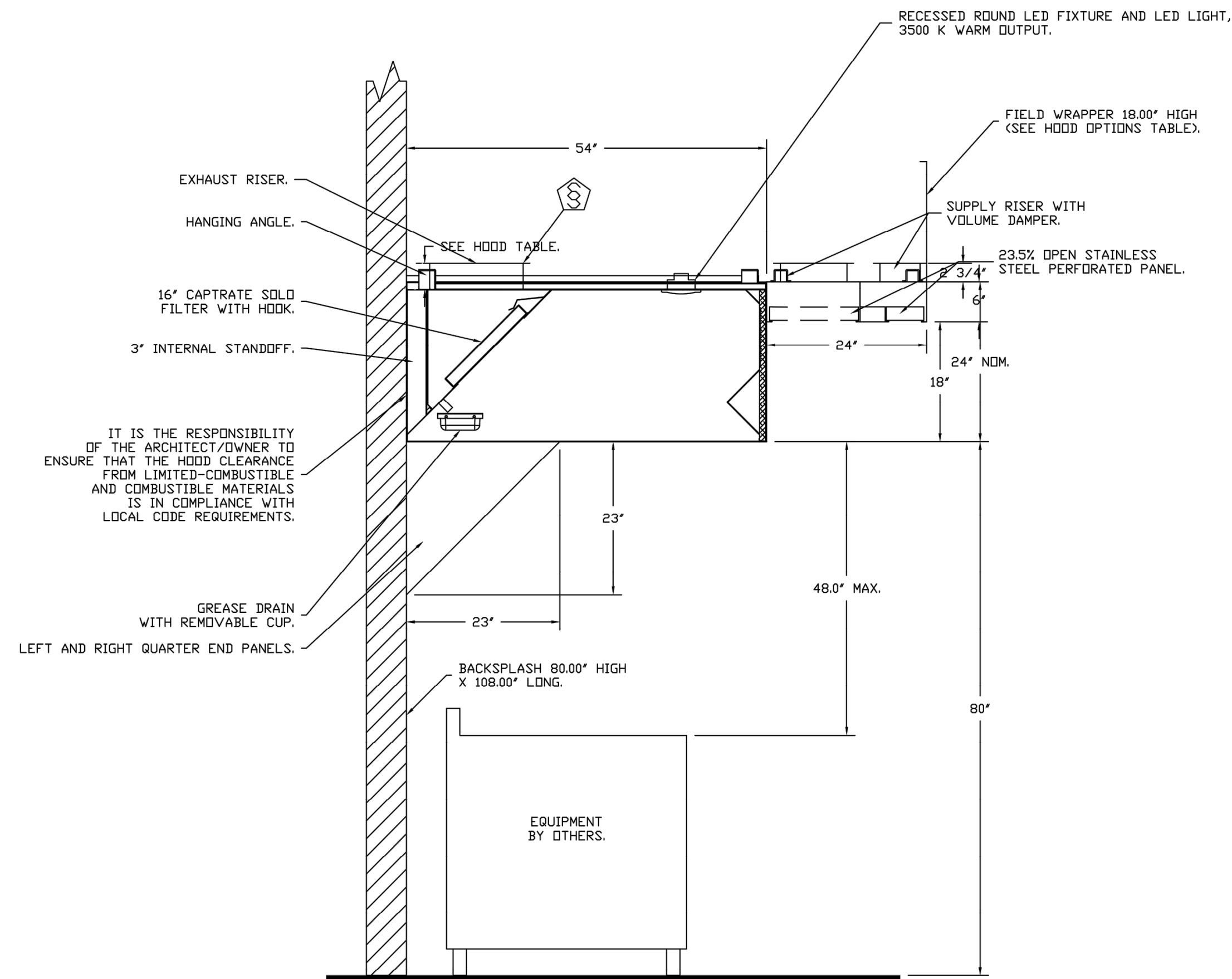
PLAN VIEW - HOOD #1 (HD-1)
8' 0.00\"/>

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

BACKSPLASH



- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS



SECTION VIEW - MODEL 5424ND-2-ACPSP-F
HOOD - #1 (HD-1)

REVISIONS

DESCRIPTION	DATE



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CEFCO #446 Defuniak Springs, FL - MPU
NWC I-10 Hwy 331,
DEFUNIAK SPRINGS, FL, 32433

DATE: 9/29/2023

DWG.#:
6251422

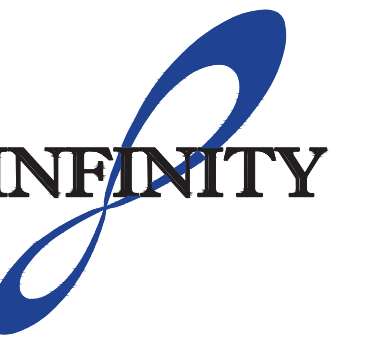
DRAWN BY: JLB-47

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
2

No.	Revision/Issue	Date
3	REVISED PERMIT	05/17/2024
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/17/2023



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CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
KITCHEN EXHAUST, HOOD AND MAKEUP AIR UNIT DETAILS

Project No.
170-95.00

Drawn By:
MC0.2

Checked By:

FOR REFERENCE ONLY

REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION

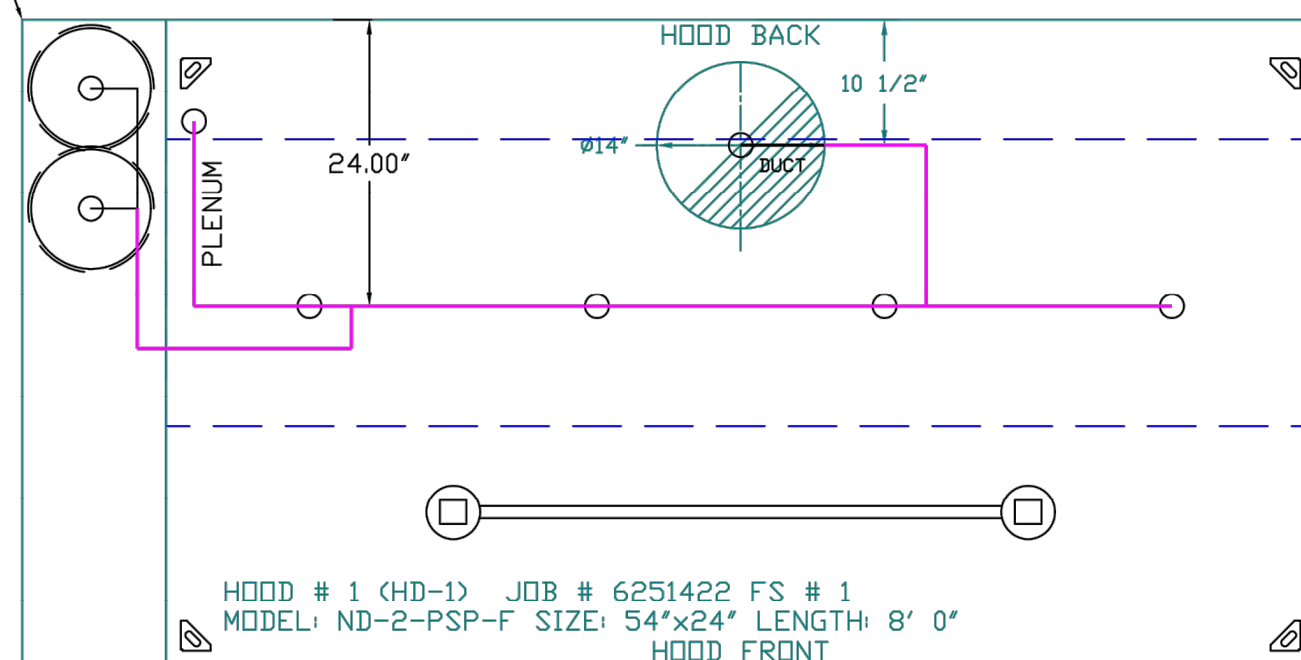
FIRE SYSTEM INFORMATION - JOB#6251422

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	28	FIRE CABINET LEFT	LEFT, HOOD 1

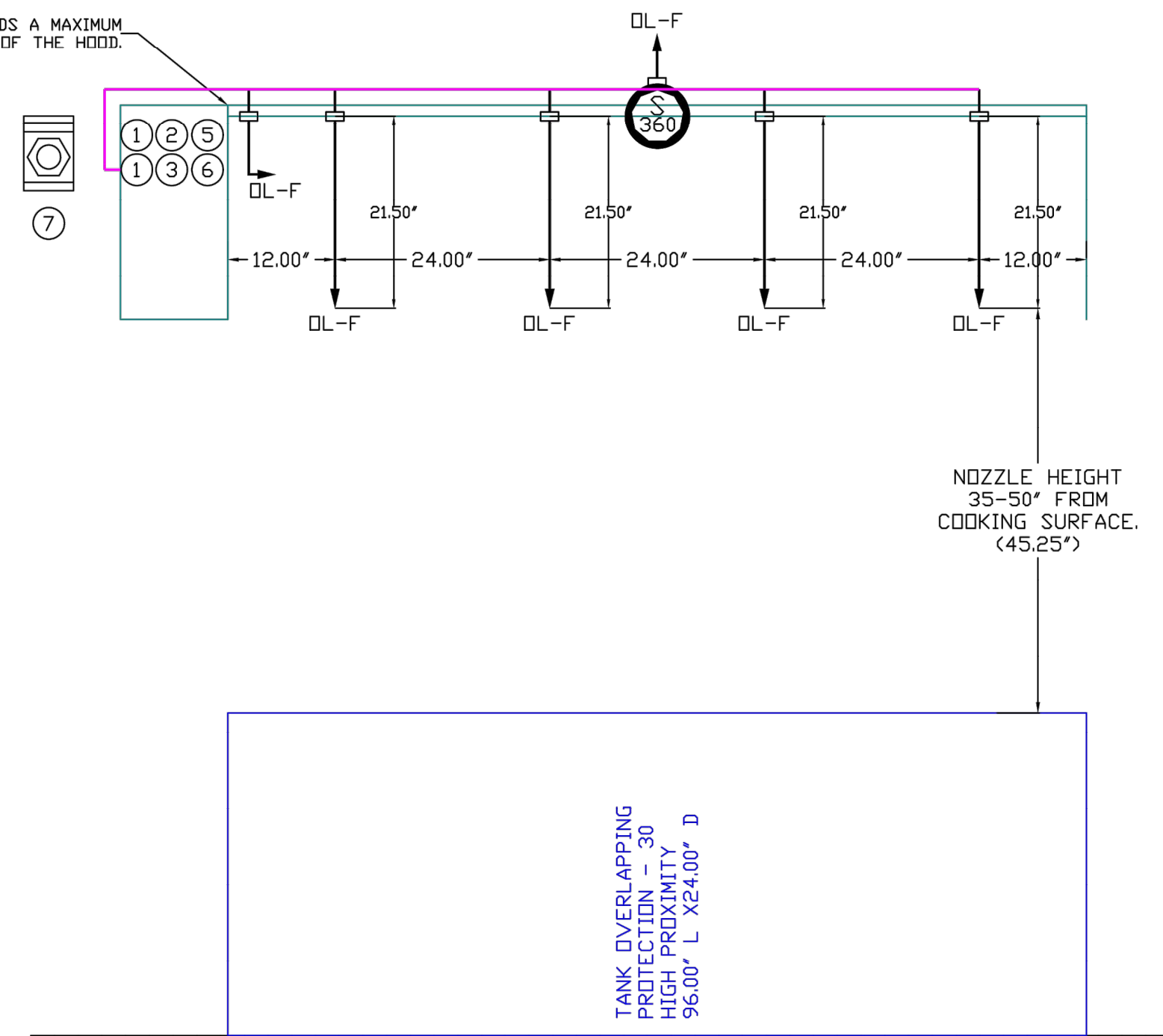
CAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS



FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.



FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION PDST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	5	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31494 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	6	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

NOTES

- FIELD PIPE DROPS AS SHOWN.
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP. FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP. FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED.
- SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 6251422.
JOB NAME: CEFCO #446 DEFUNIAK SPRINGS, FL - MPU.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 28.
HOOD # 1 8' 0.00" LONG X 54" WIDE X 24" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

REVISIONS

DESCRIPTION	DATE

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DATE: 9/29/2023

DWG.#:
6251422

DRAWN BY: JLB-47

SCALE:
3/4" = 1'-0"

MASTER DRAWING

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3

No.	Date	Revision/Issue
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RICHARD KIMBALL, P.E.
FL REG. NO. 79067

Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
KITCHEN EXHAUST, HOOD AND MAKEUP AIR UNIT DETAILS

Project No:
170-95.00

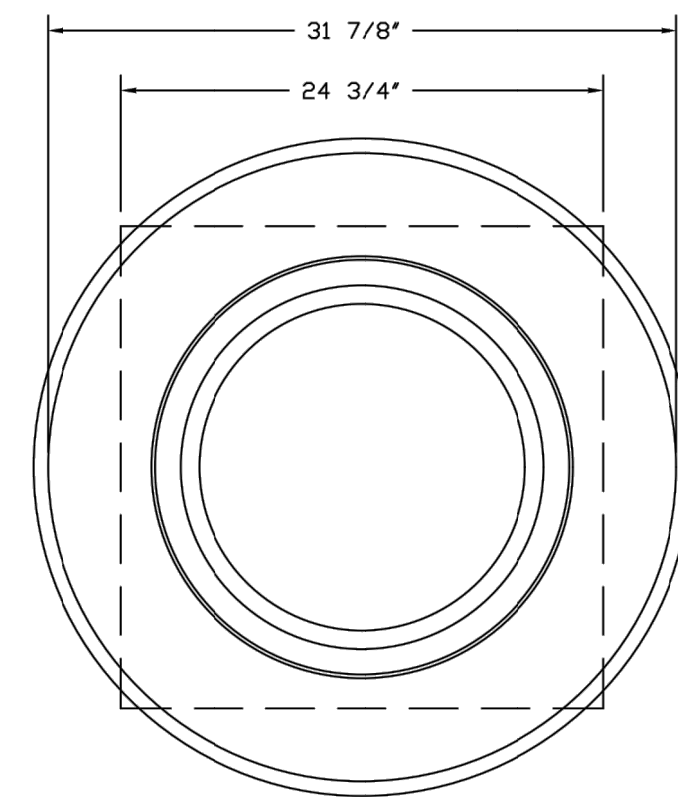
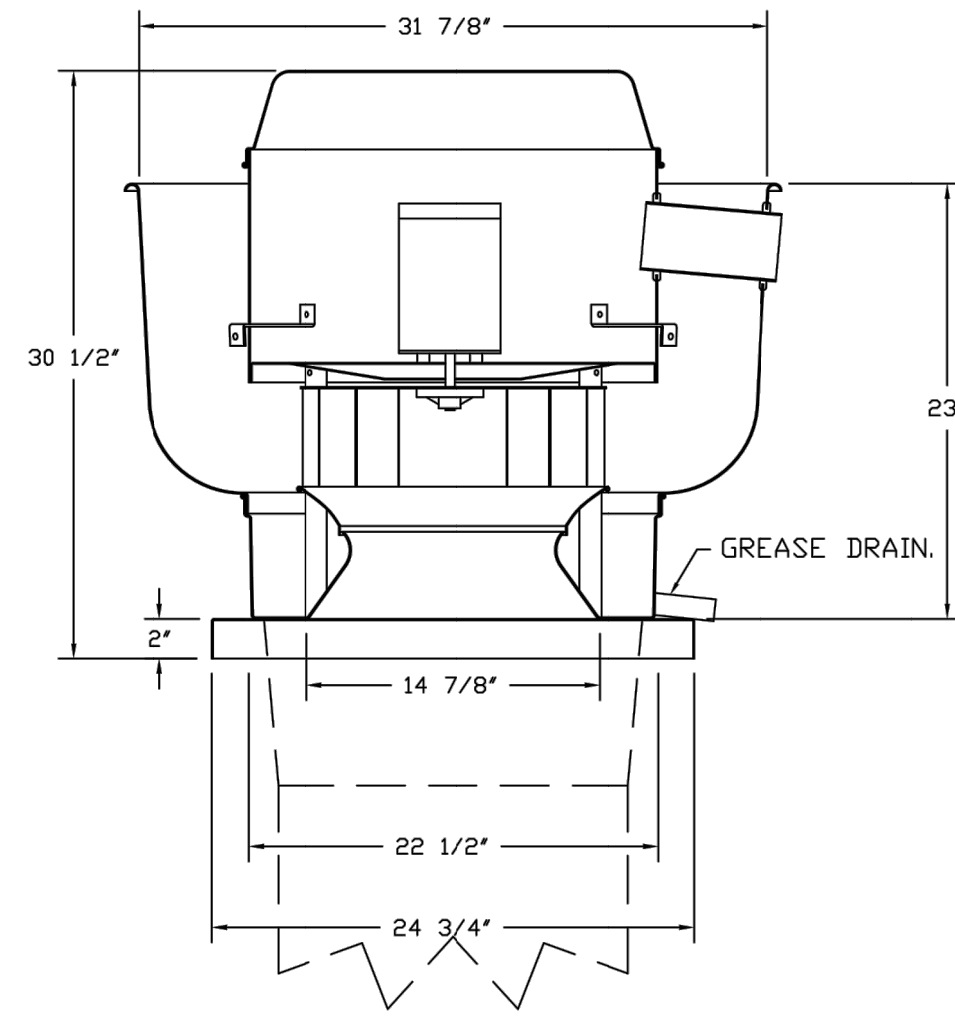
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REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION

FAN #1 DUBSHEA - EXHAUST FAN (KEF-1)



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

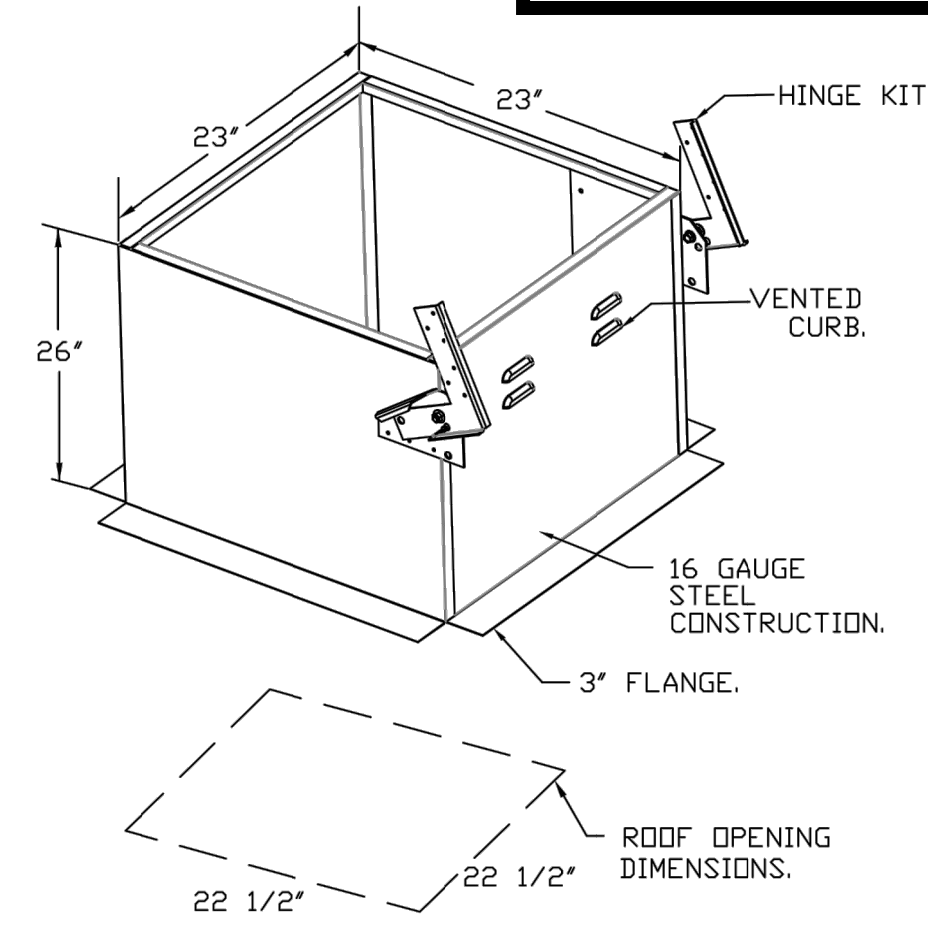
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

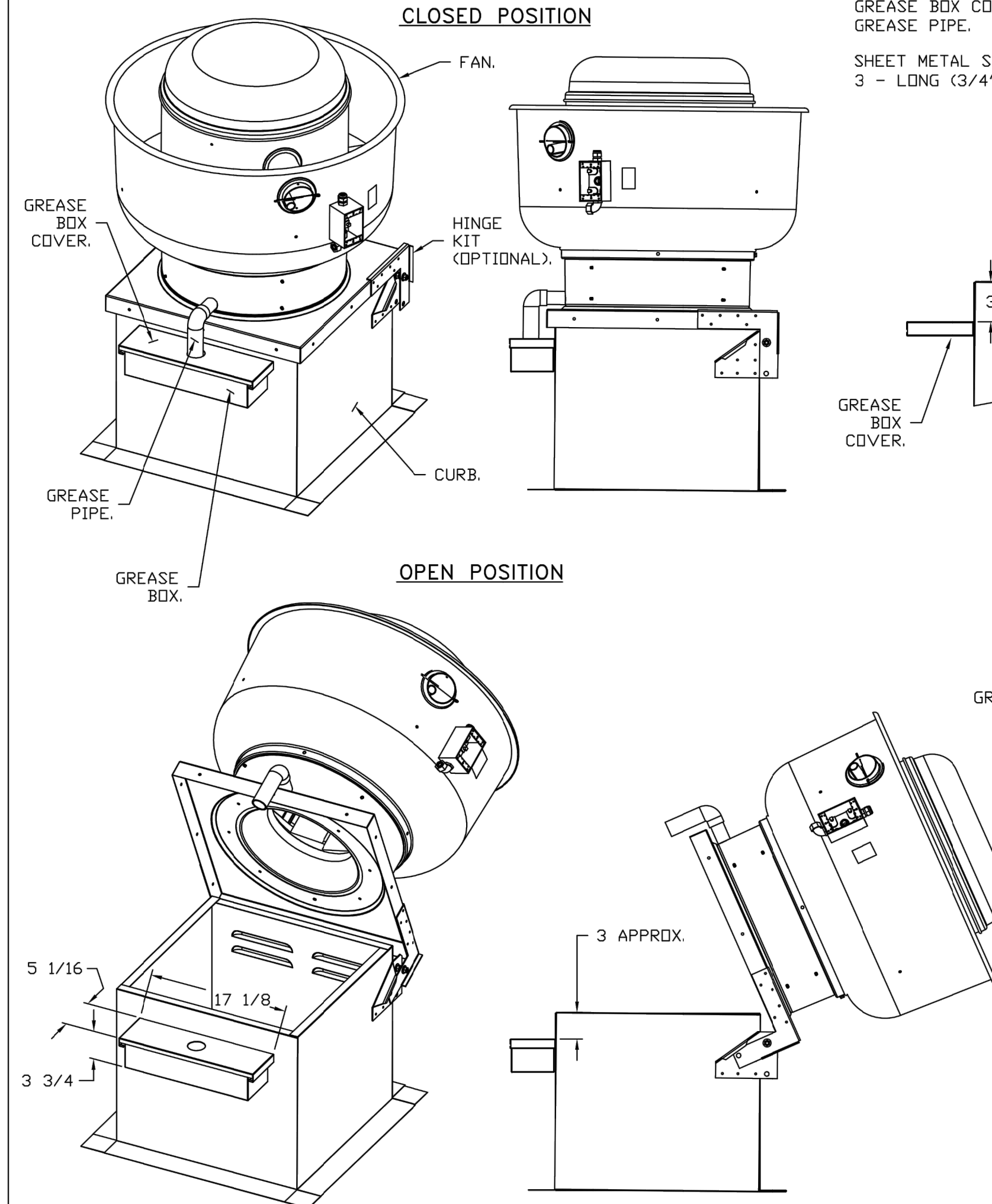
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCV ROTATION.
- 2 YEAR PARTS WARRANTY.



GREASE BOX INSTALLATION



*NOTE: UL 705 INSTALL.

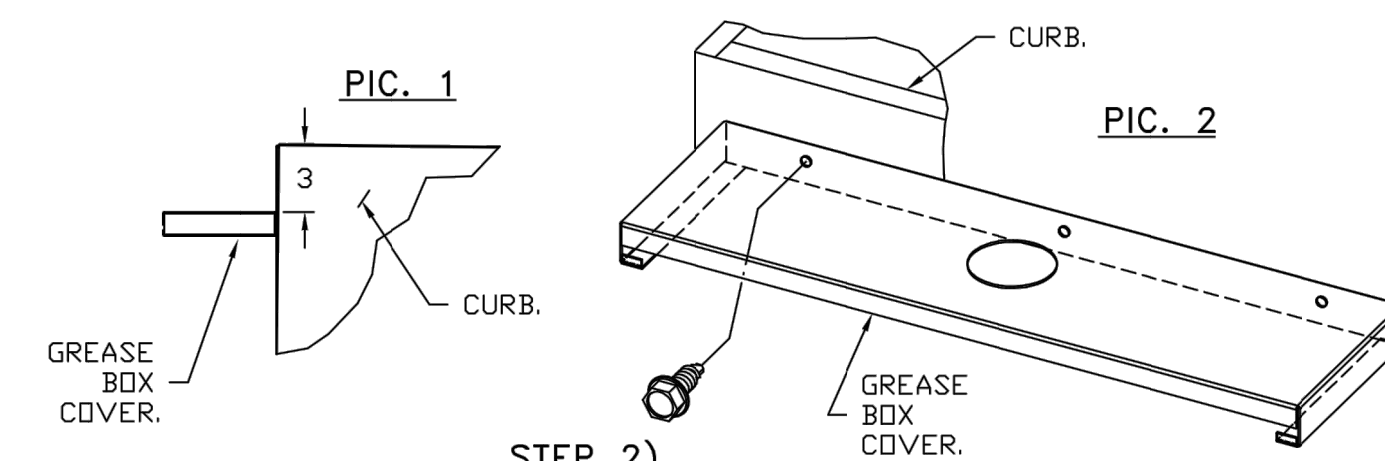
PARTS INCLUDED

- GREASE BOX.
- GREASE BOX COVER.
- GREASE PIPE.
- SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

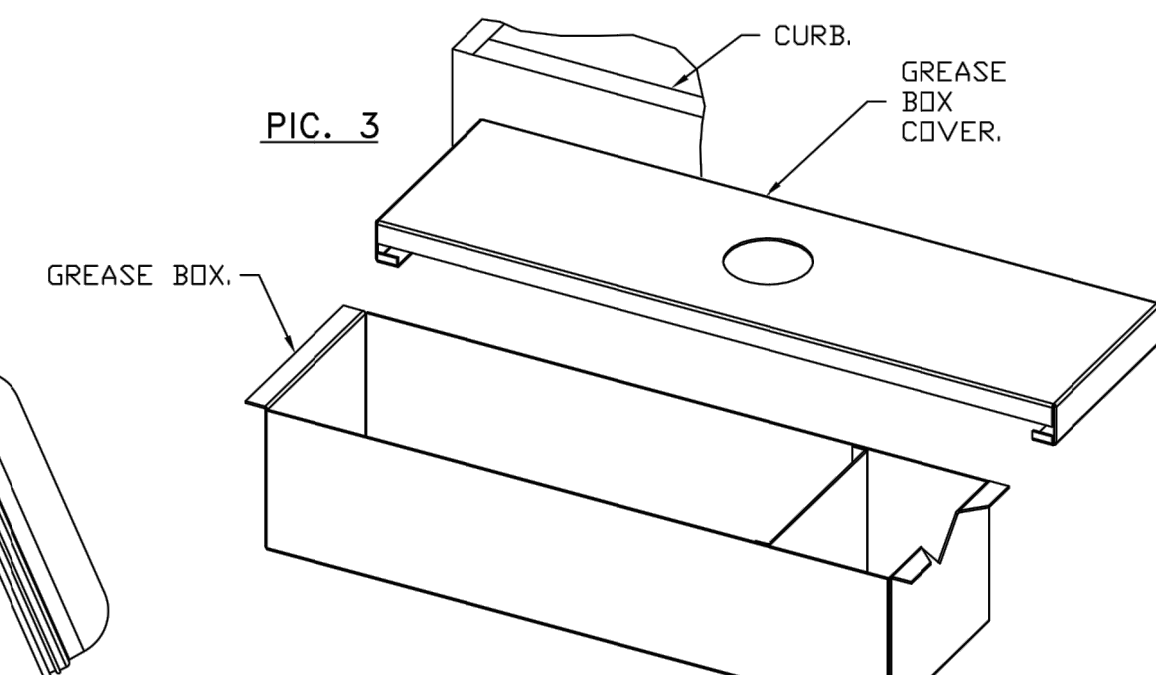
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.



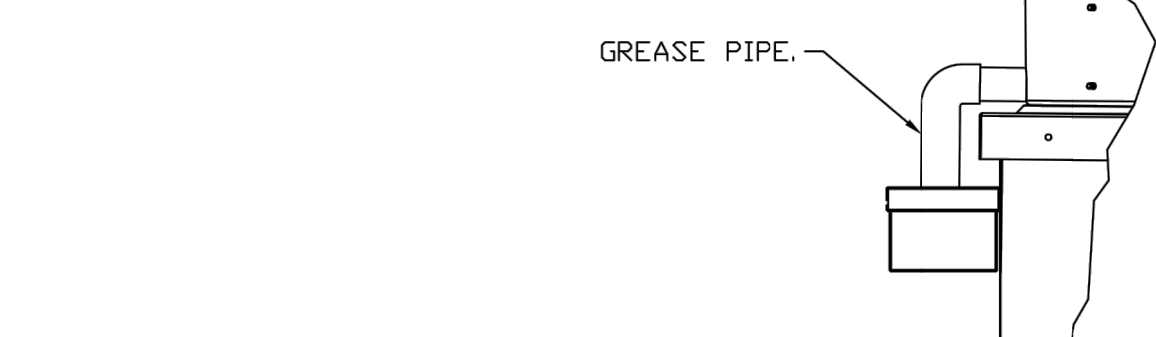
STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.



STEP 3)

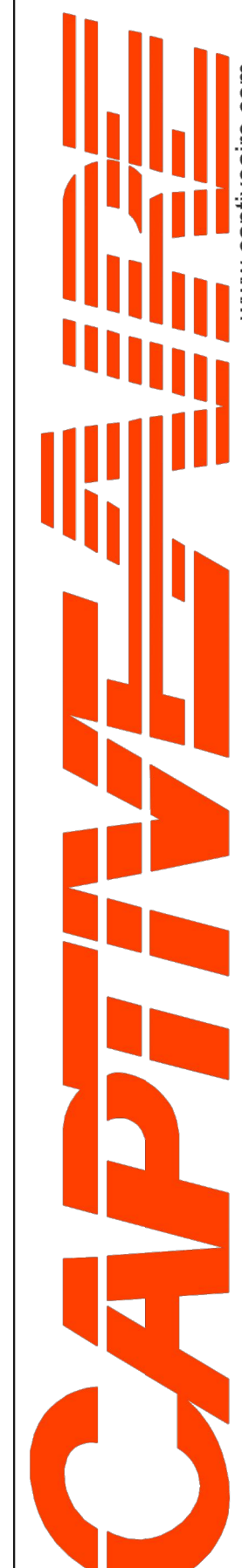
INSTALL GREASE PIPE AS SHOWN ON PIC. 4.



GREASEBOX
REV.#2 08/19/02

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DRAWN BY: JLB-47

SCALE:
3/4" = 1'-0"

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FL REG. NO. 79067

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
**KITCHEN EXHAUST, HOOD
AND MAKEUP AIR UNIT
DETAILS**

Project No.
170-95.00

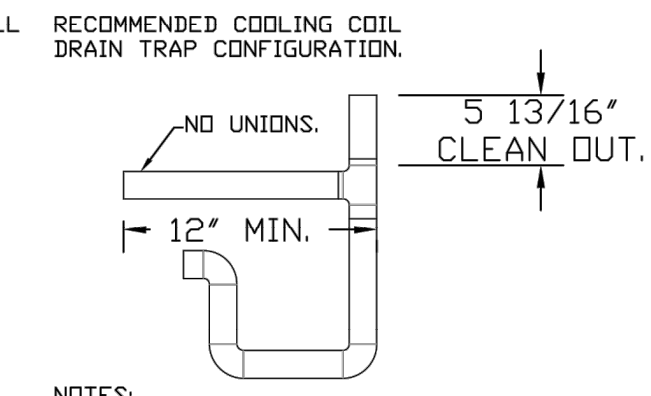
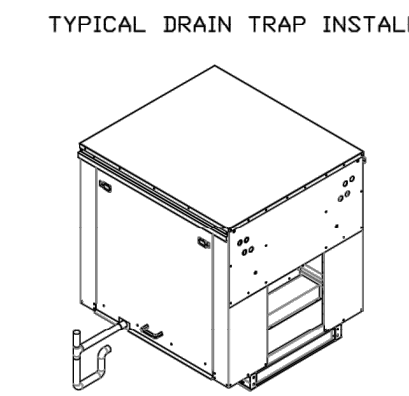
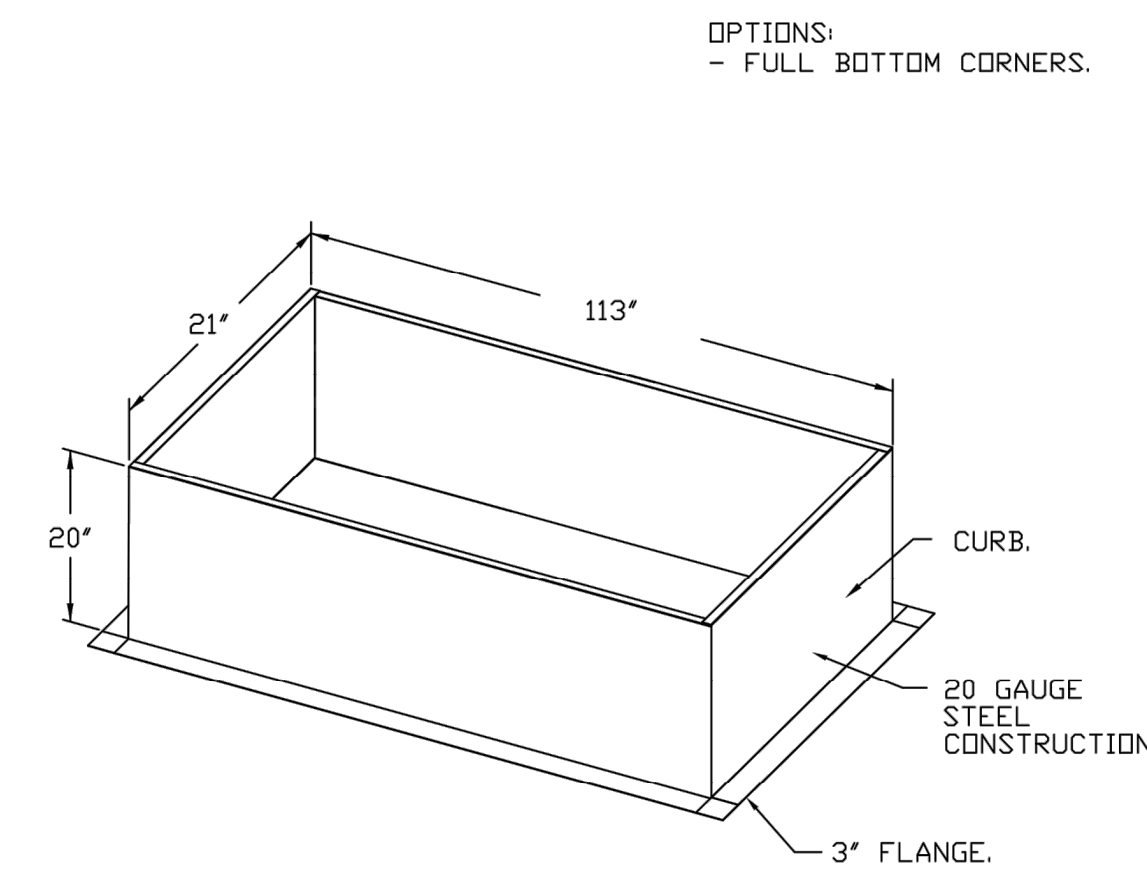
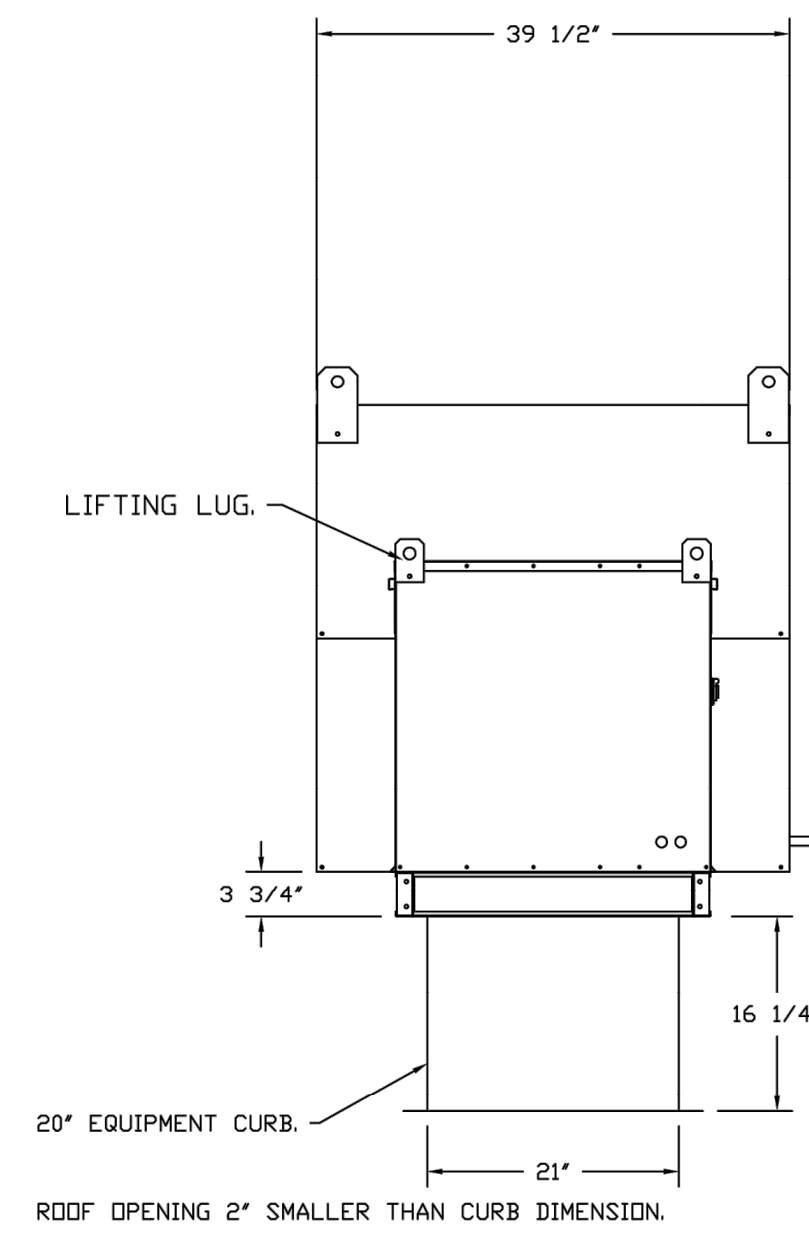
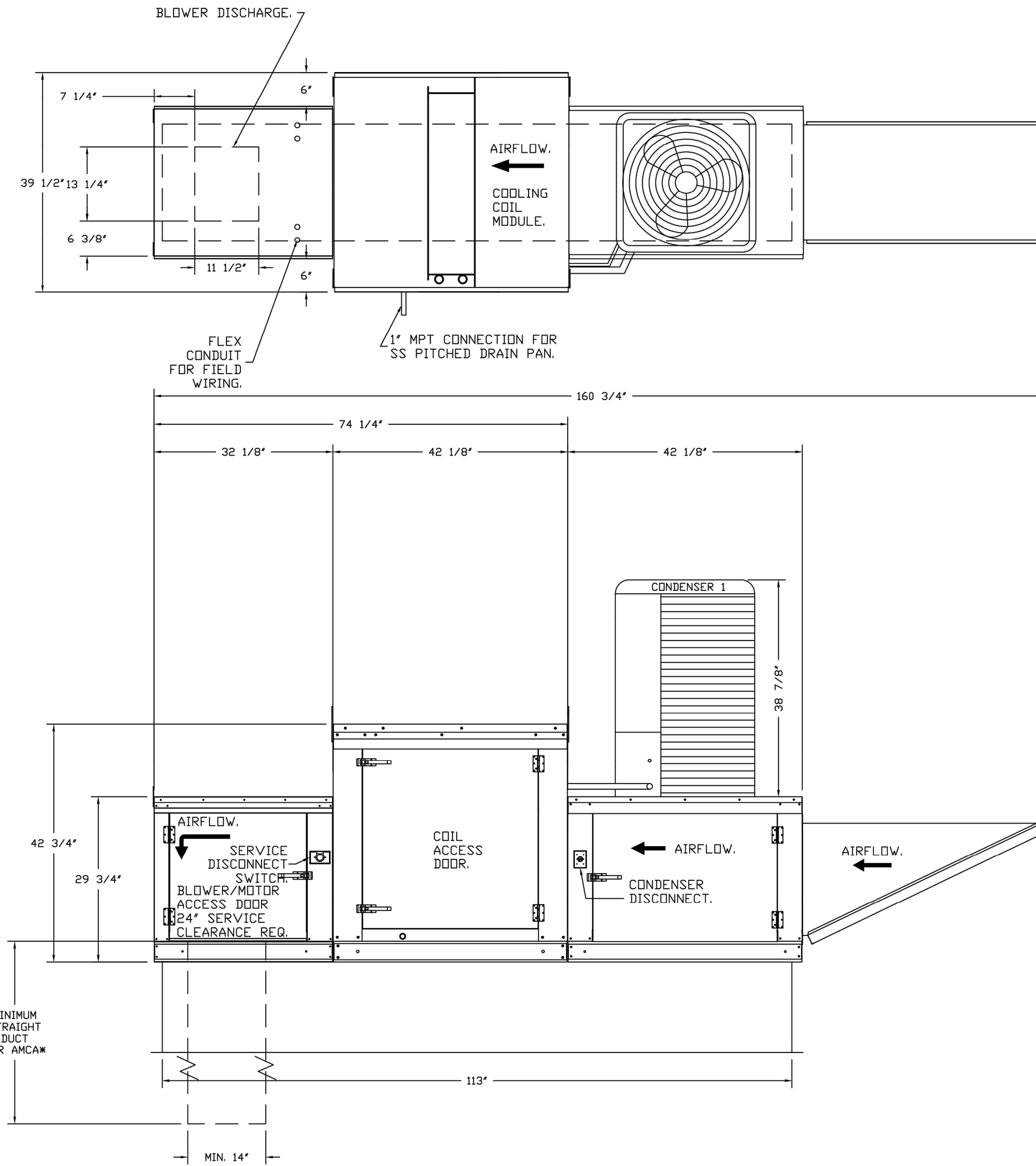
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FOR REFERENCE ONLY

REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION

- FAN #2 A1-15D-MPU - SUPPLY FAN (MUA-1)
- SUPPLY UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN IN SIZE #1 HOUSING.
 - INTAKE HOOD WITH EZ FILTERS.
 - DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 - DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 UNTEMPERED DIRECT DRIVE AHUS.
 - 3 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING (1100 TO 1800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 2EZ100IN.
 - INSULATED BLOWER HOUSING SIZES 1-2 COMMERCIAL MODULAR.
 - CONTROL PACKAGE FOR MOD PACKAGE UNIT COOLING ONLY UNIT. INCLUDES AIRFLOW PROVING SWITCH, RTULINK-ACHP BOARD AND TERMINAL BLOCKS.
 - SUPPORT SHELL FOR SIZE 1 MODULAR PACKAGE UNIT. INCLUDES CONTROL VESTIBULE. INCLUDES CONDENSER SUPPORTS. DOES NOT INCLUDE RETURN AIR OR INLET AIR DAMPER.
 - SIZE 1 COOLING COIL ECQATING OPTION FOR STANDARD MPU, DX AND CHILLED WATER COILS. ADDS 5-6 WEEK LEAD TIME.
 - LOCKING CAPS FOR SINGLE CONDENSER UNITS. CONSISTS OF 2 LOCKING CAPS, PART# NCP-4, AND 1 KEY, PART# NC-KEY.
 - MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +30 / -130 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 18 GAUGE ALUMINIZED.
 - ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PWM SIGNAL FROM ECMOS PREWIRE.
 - HINGED DOUBLE WALL INSULATED DDDR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
 - 2 YEAR PARTS WARRANTY

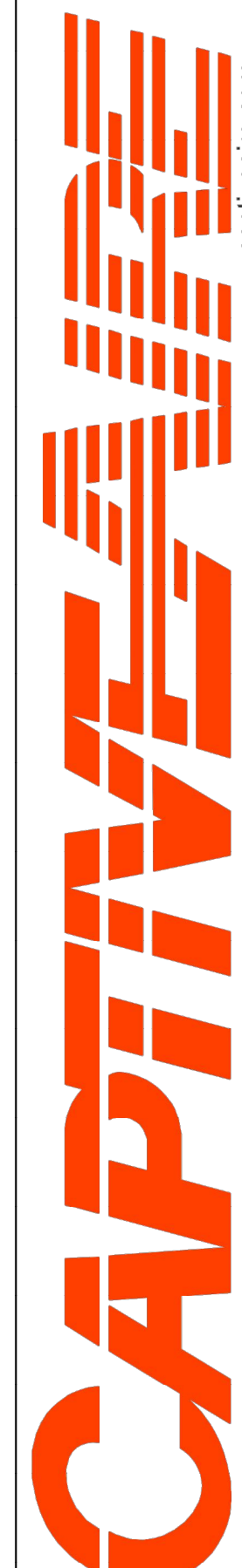
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".



- NOTES:
- 1" DIAMETER PVC PIPE ONLY.
 - USE ONLY LOW PROFILE COUPLINGS.
 - ADD CLEAN OUT AS SHOWN.

REVISIONS

DESCRIPTION	DATE



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DATE: 9/29/2023

DWG.#: 6251422

DRAWN BY: JLB-47

SCALE: 3/4" = 1'-0"

MASTER DRAWING

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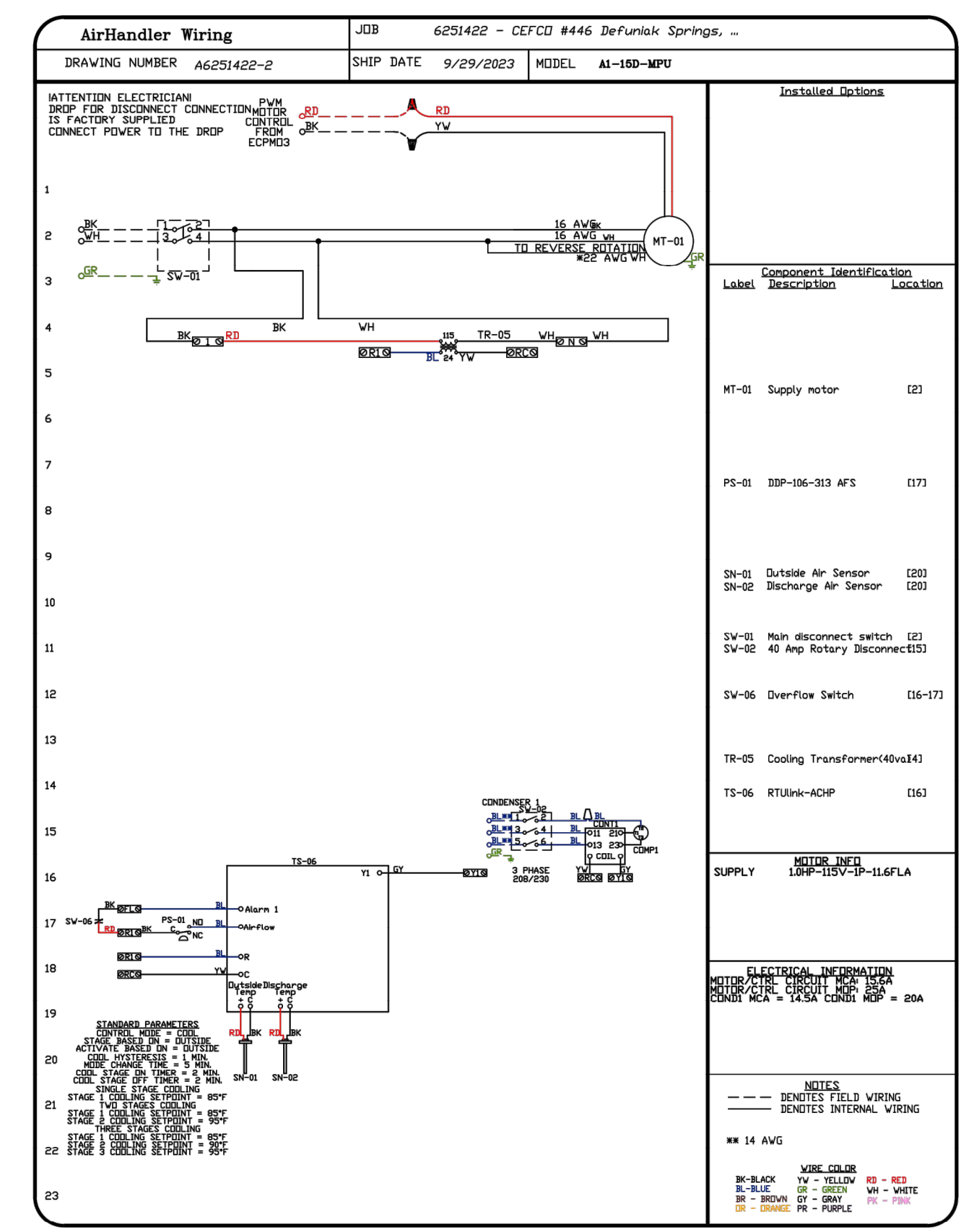
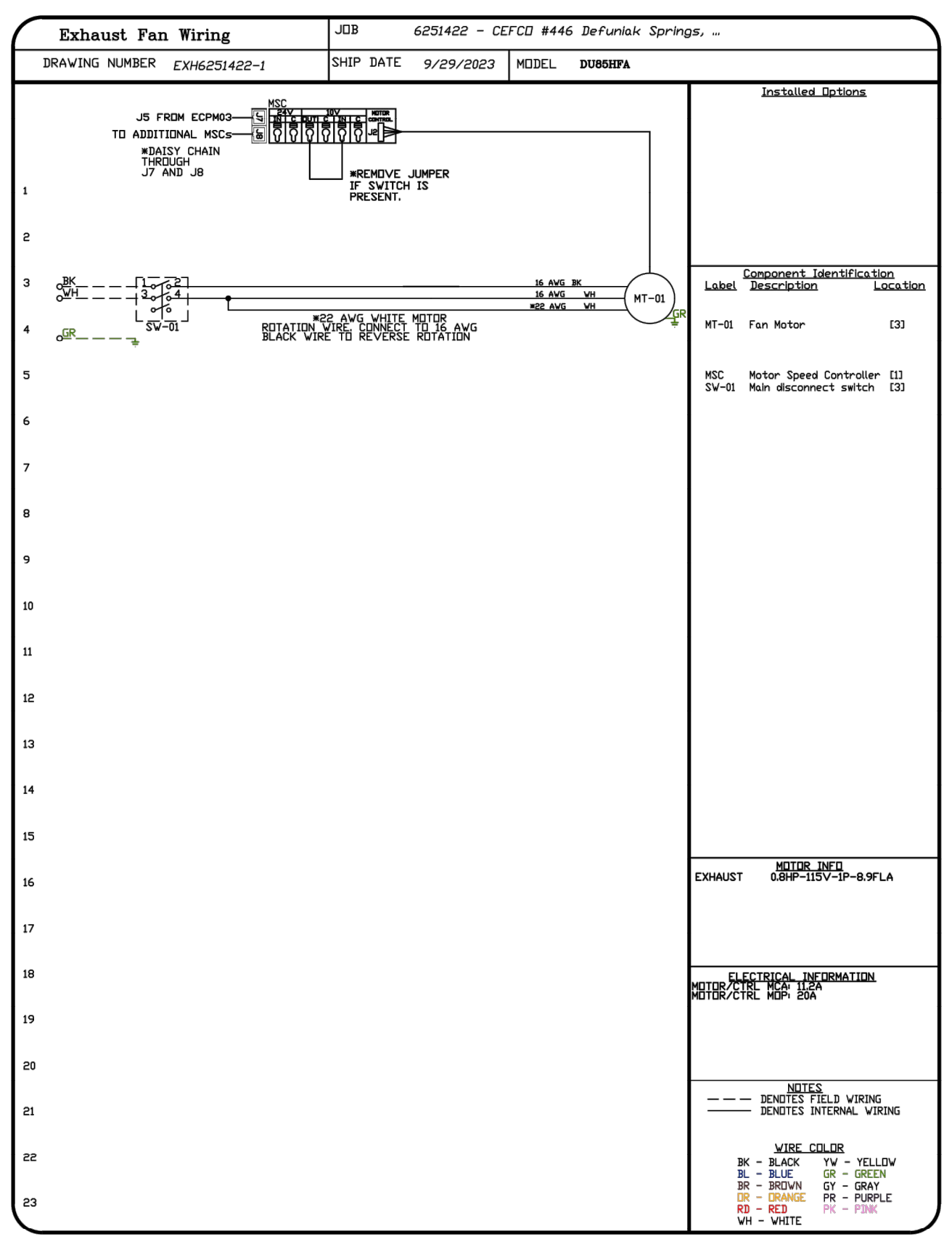
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CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
KITCHEN EXHAUST, HOOD AND MAKEUP AIR UNIT DETAILS

Project No. 170-95.00
Sheet
Drawn By: **MC0.6**
Checked By:

FOR REFERENCE ONLY

REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION



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DESCRIPTION	DATE



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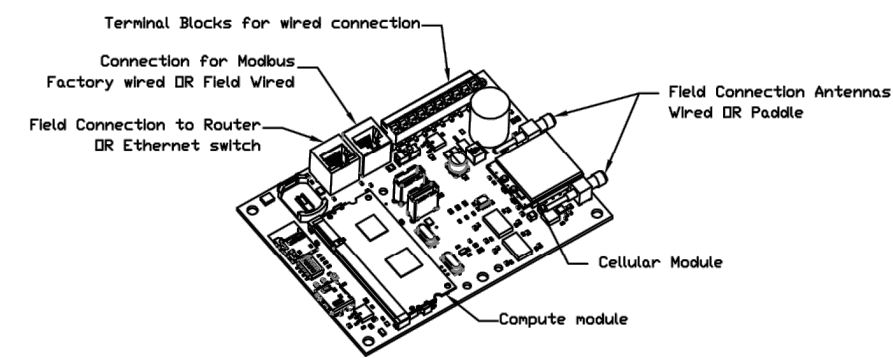
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ELECTRICAL PACKAGE -- JOB#6251422

ND	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	1	0.750	115	8.9
				HOOD # 1	1 FAN		MUA-1	SUPPLY	1	1.000	115	11.6

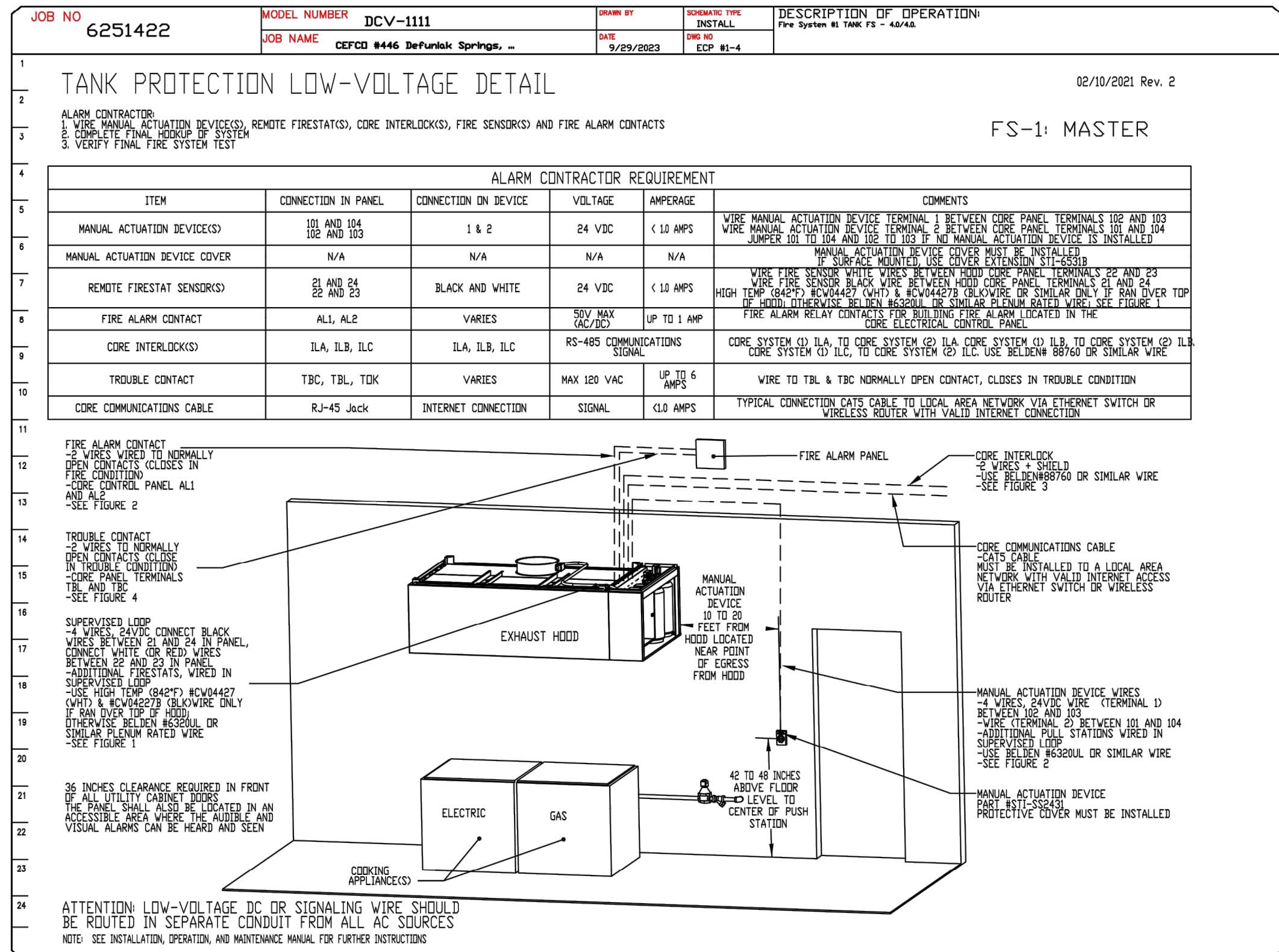
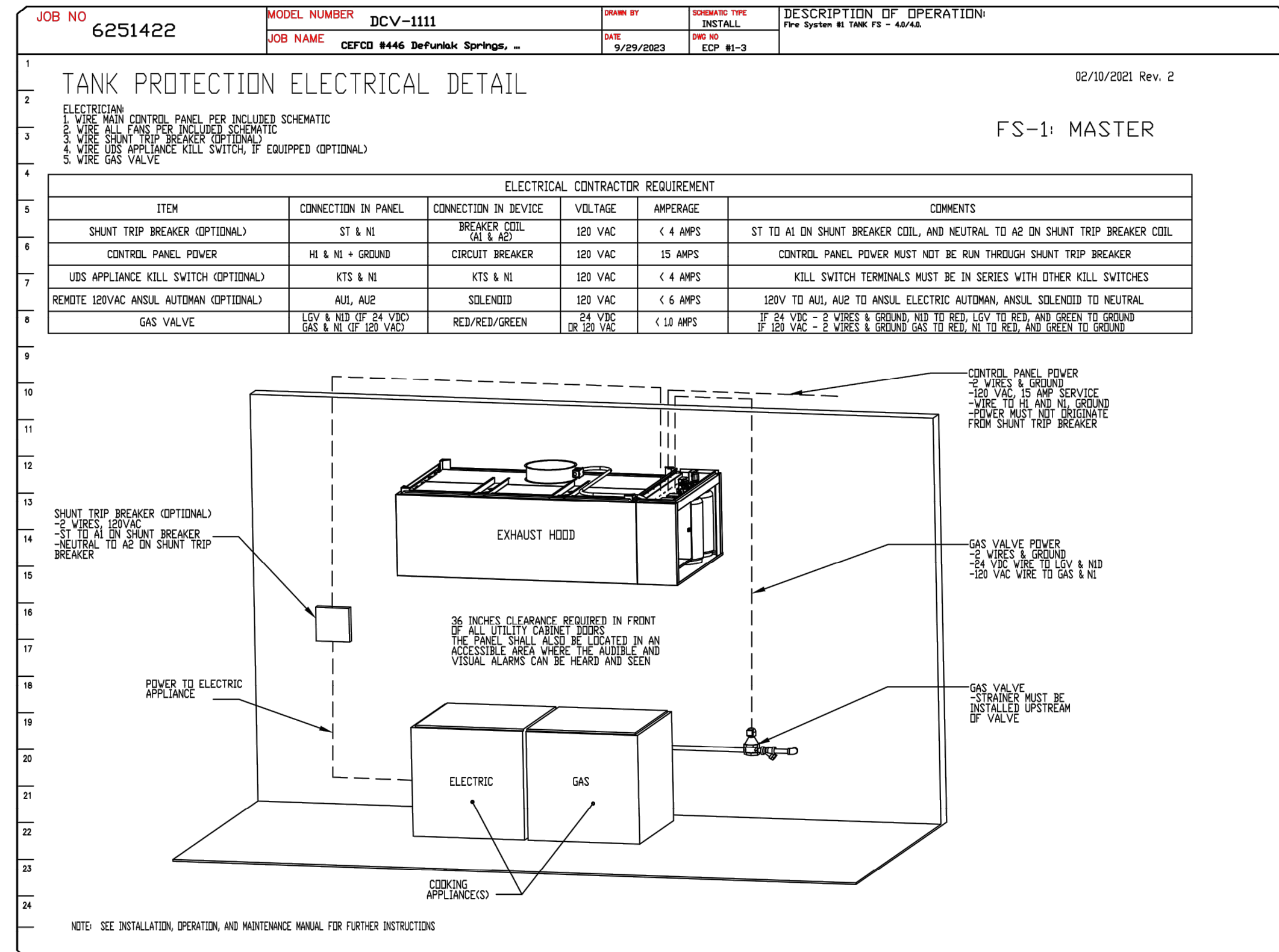
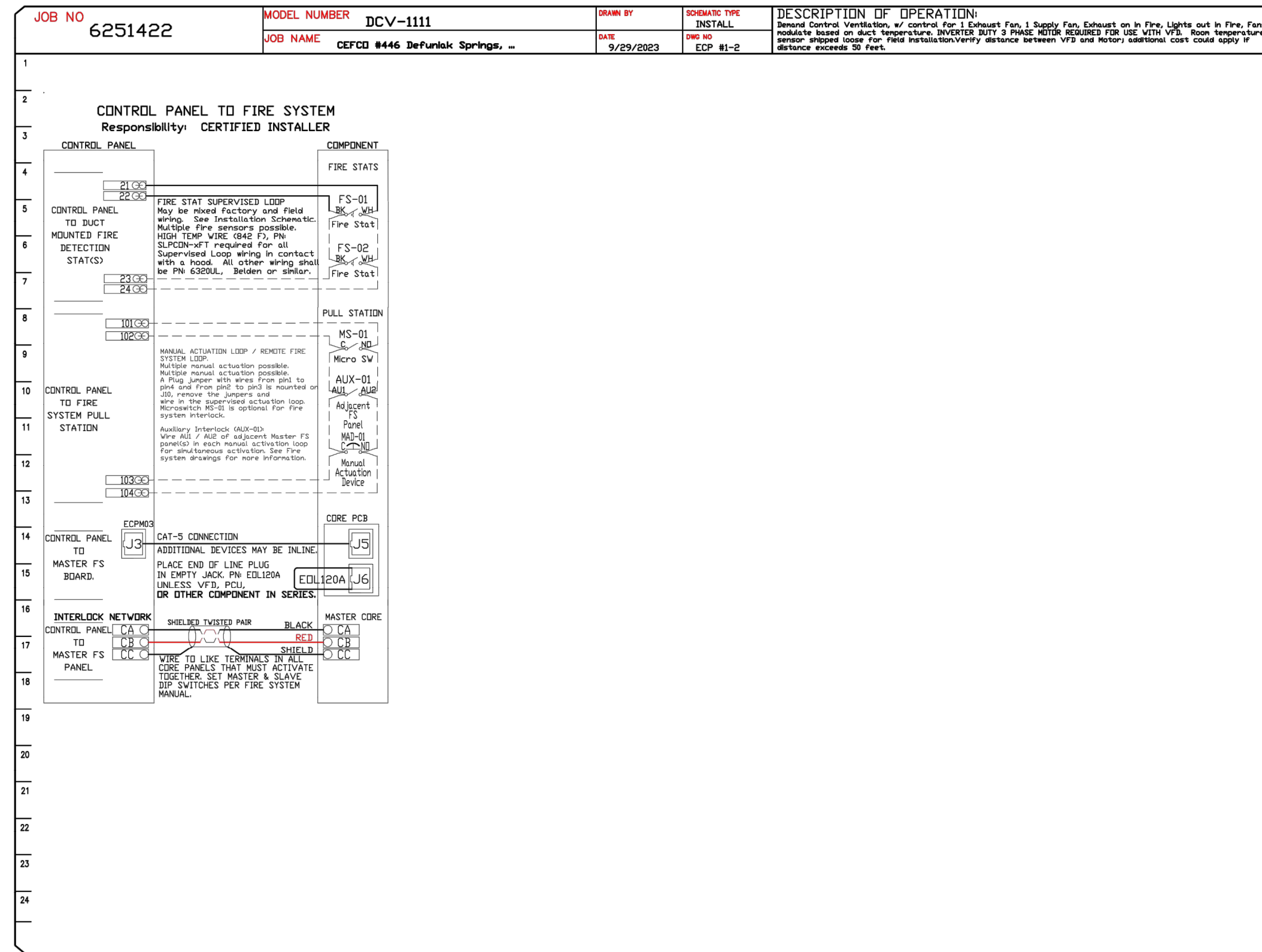
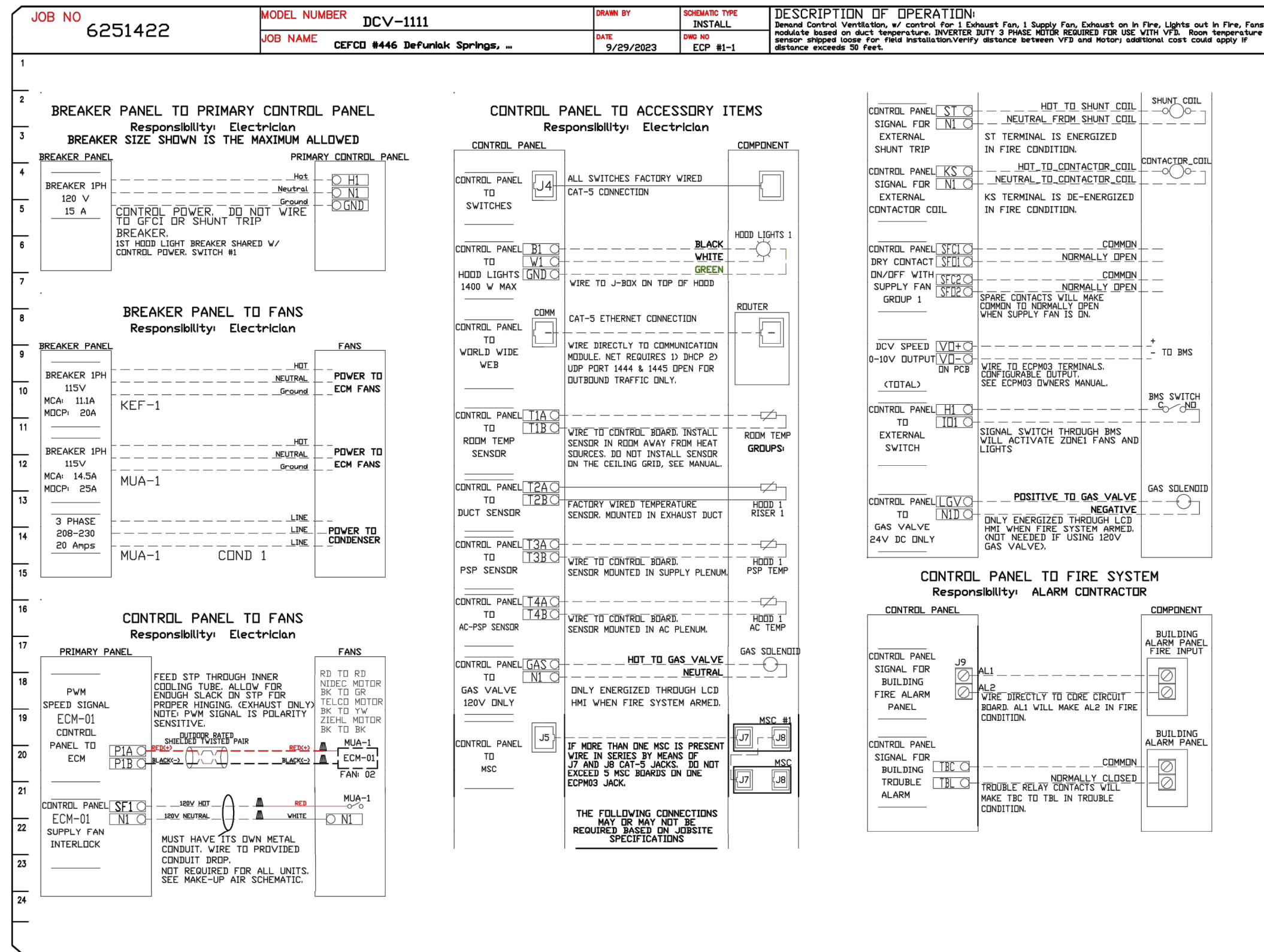


CASlink Monitor and Control

Hood control panel to support communications to cloud-based Building Management System.
 Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
 Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
 Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	DC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MHA Discharge Temperature	MONITOR	MHA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Control Fan Speed	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
YFP Faults	MONITOR	PCV Faults	MONITOR
Controller Faults	MONITOR	PCV Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fan Condition	MONITOR
Fan Status	MONITOR	COSE Fire System	MONITOR
PCV Faults	MONITOR	Building Pressure	MONITOR
PCV Filter Clog Percentages	MONITOR	Fans Status(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Light(s) Status(s)	MONITOR & CONTROL
COSE Fire System	MONITOR	Flash Status	MONITOR & CONTROL
Building Pressure	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Light(s) Button	MONITOR & CONTROL		
Flash Button	MONITOR & CONTROL		



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1		
2		
3		

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 FL REG. NO. 79067

Project Name and Address
CEFCO #446 - DEFUNIACK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIACK SPRINGS, FL

Sheet Title
KITCHEN EXHAUST, HOOD AND MAKEUP AIR UNIT DETAILS

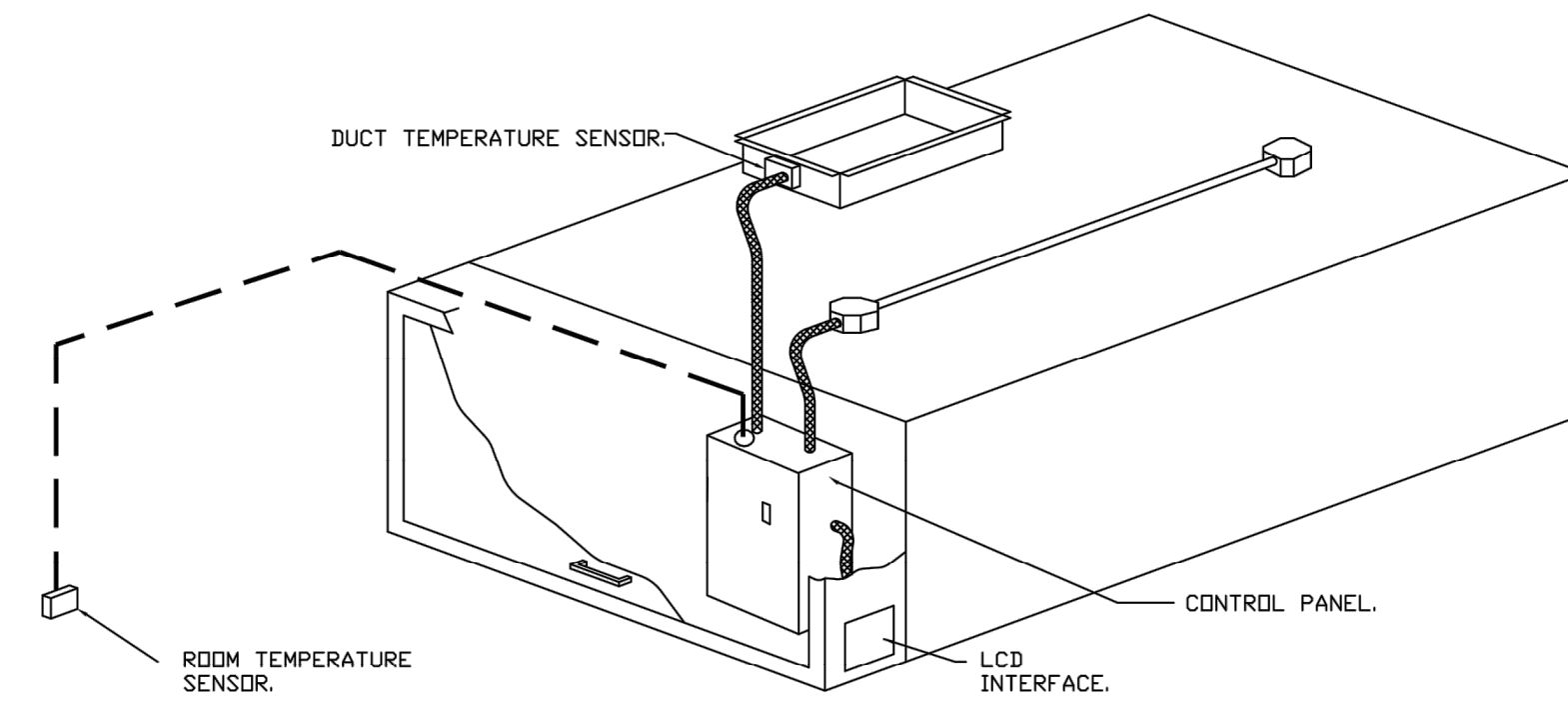
Project No. 170-95-00
 Sheet MCO.8
 Drawn By: MCO.8
 Checked By:

FOR REFERENCE ONLY

REFER TO SEPARATE PERMIT CAPTIVE-AIR (OR EQUAL) EXHAUST FAN, HOOD, AND MAKE UP AIR UNIT PLANS FOR ADDITIONAL INFORMATION

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

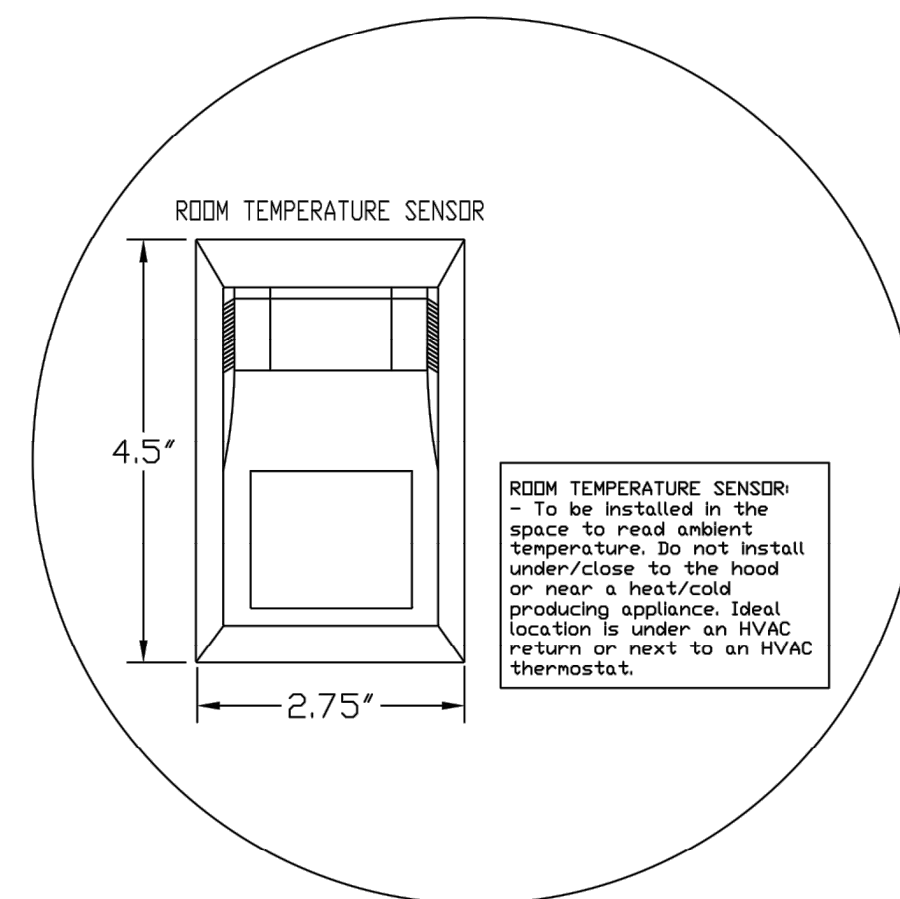
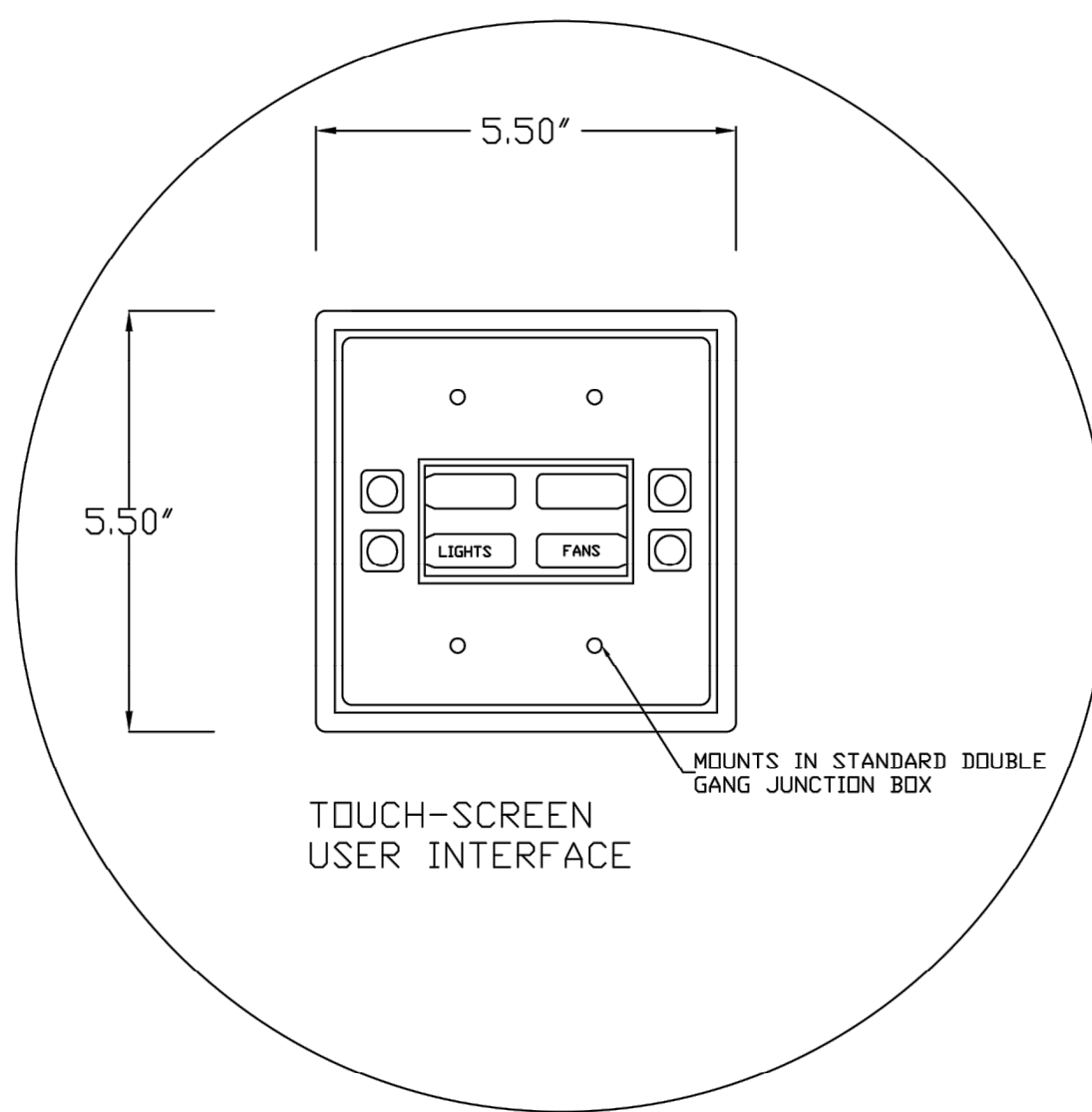
- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 - ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 - VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 - AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

- THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:
- **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
 - **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
 - **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
 - **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
 - **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.



REVISIONS

DESCRIPTION	DATE

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DATE: 9/29/2023

DWG.#: 6251422

DRAWN BY: JLB-47

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 10

REV	DATE	DESCRIPTION
3	05/17/2024	REVISED PER RFI
2	01/04/2024	ISSUE CLIENT COMMENTS - REV 1
1	03/17/2023	ISSUE FOR PERMIT

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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
KITCHEN EXHAUST, HOOD AND MAKEUP AIR UNIT DETAILS

Project No. 170-95.00
Sheet MC0.10
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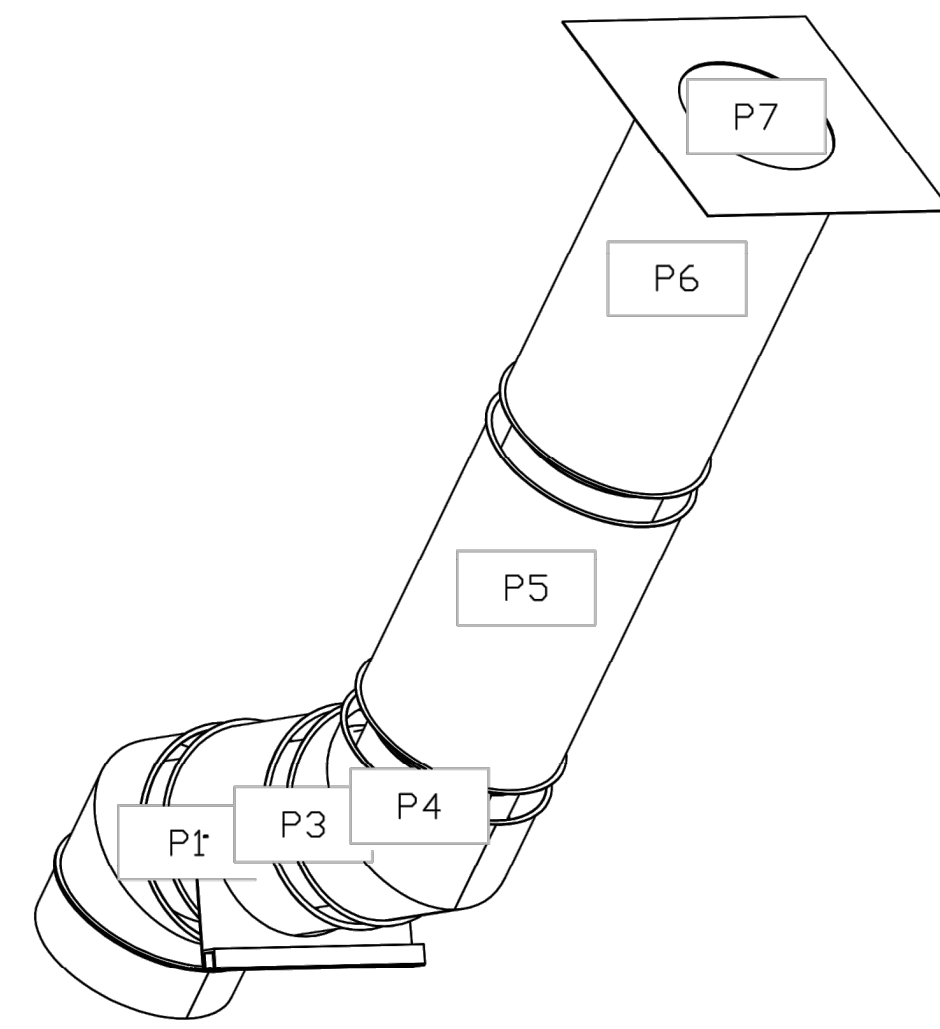
DUCTWORK #1 PARTS - JOB#6251422 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1445DWASY-2R-S	1800			-0.0473	19.87	1683.79	1	DOUBLE WALL DUCT - 14" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P2	DW1427DWAJD-2R-S	1800			-0.007	52.12	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 24.5' / ADJUSTMENT = 13.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DW1822SADKIT					7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P4	DW1445DWASY-2R-S	1800			-0.0675	19.87	1683.79	1	DOUBLE WALL DUCT - 14" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P5	DW1447DWAJD-2R-S	1800			-0.014	93.18	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P6	ASSEMBLED W/P7	DW1435DWLTP-2R-S	1800		-0.015	48.06	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P7	ASSEMBLED W/P6 D=B SYSTEM AT P7	DW2314TP	1800			8.49	1683.79	1	DUCT TO CURB TRANSITION, 23" CURB TO 14" DUCT, 16 GA ALUMINIZED. USED ON 8DU15, DU75 & 85.
					-1.0808	0.00			
						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT						250.44			

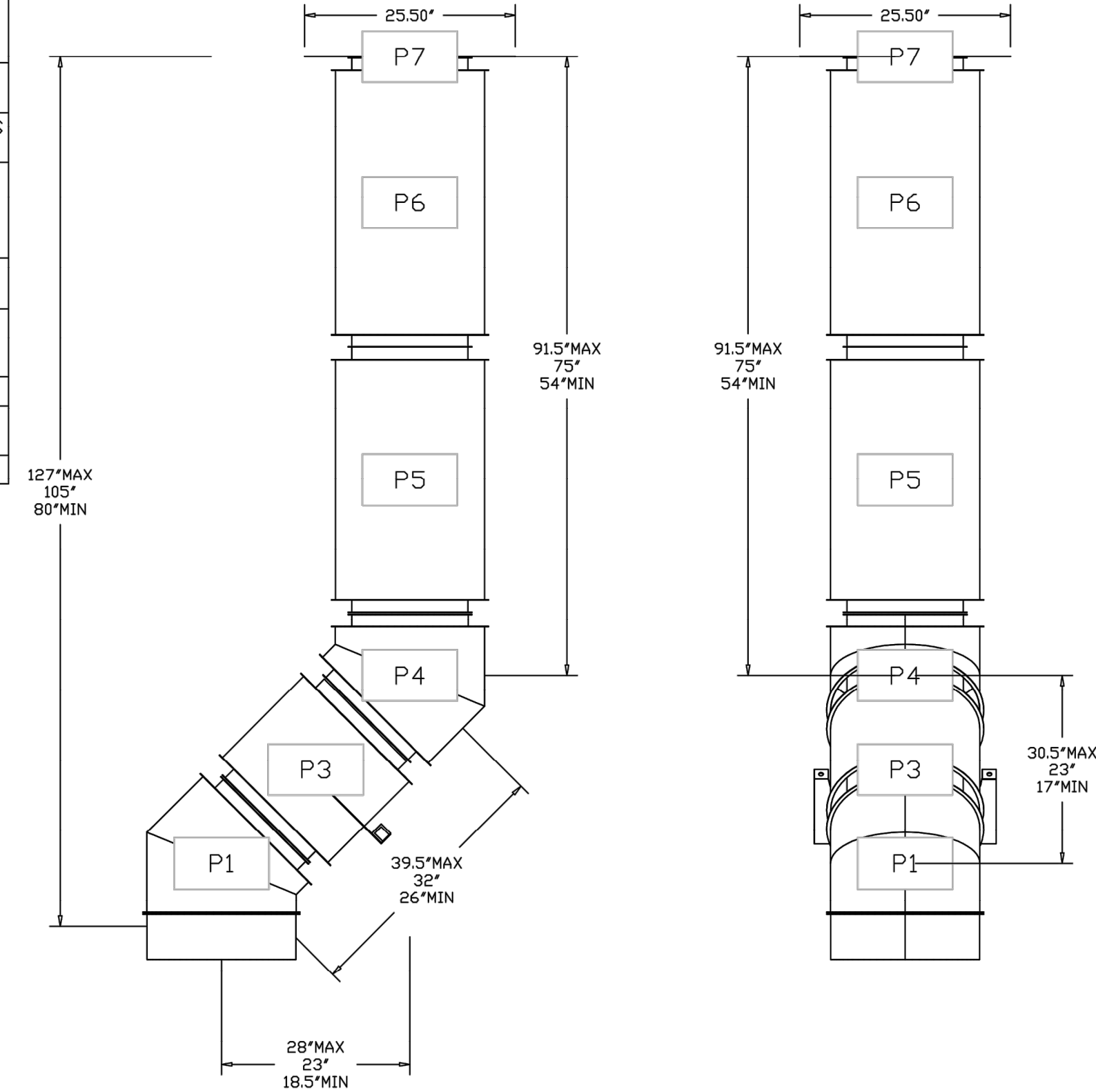
DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCTWORK #1 SE VIEW



DUCTWORK #1 FRONT VIEW DUCTWORK #1 SIDE VIEW

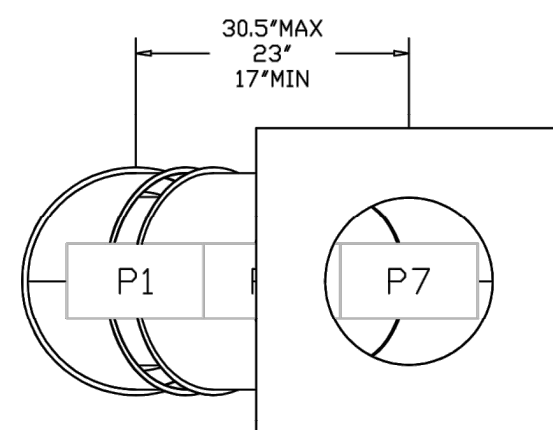


HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5'	7'
6'	7'
7'	7'
8'	7'
10'	7'
12'	7'
14'	7'
16'	7'
18'	5'
20'	5'
22'	5'
24'	5'
26'	5'
28'	5'
30'	5'
32'	5'
34'	5'
36'	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

DUCTWORK #1 TOP VIEW



REVISIONS	
DESCRIPTION	DATE

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DATE: 9/29/2023
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DRAWN BY: JLB-47
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 11

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3	REVISED PER RFI	05/17/2024
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/12/2023

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Date

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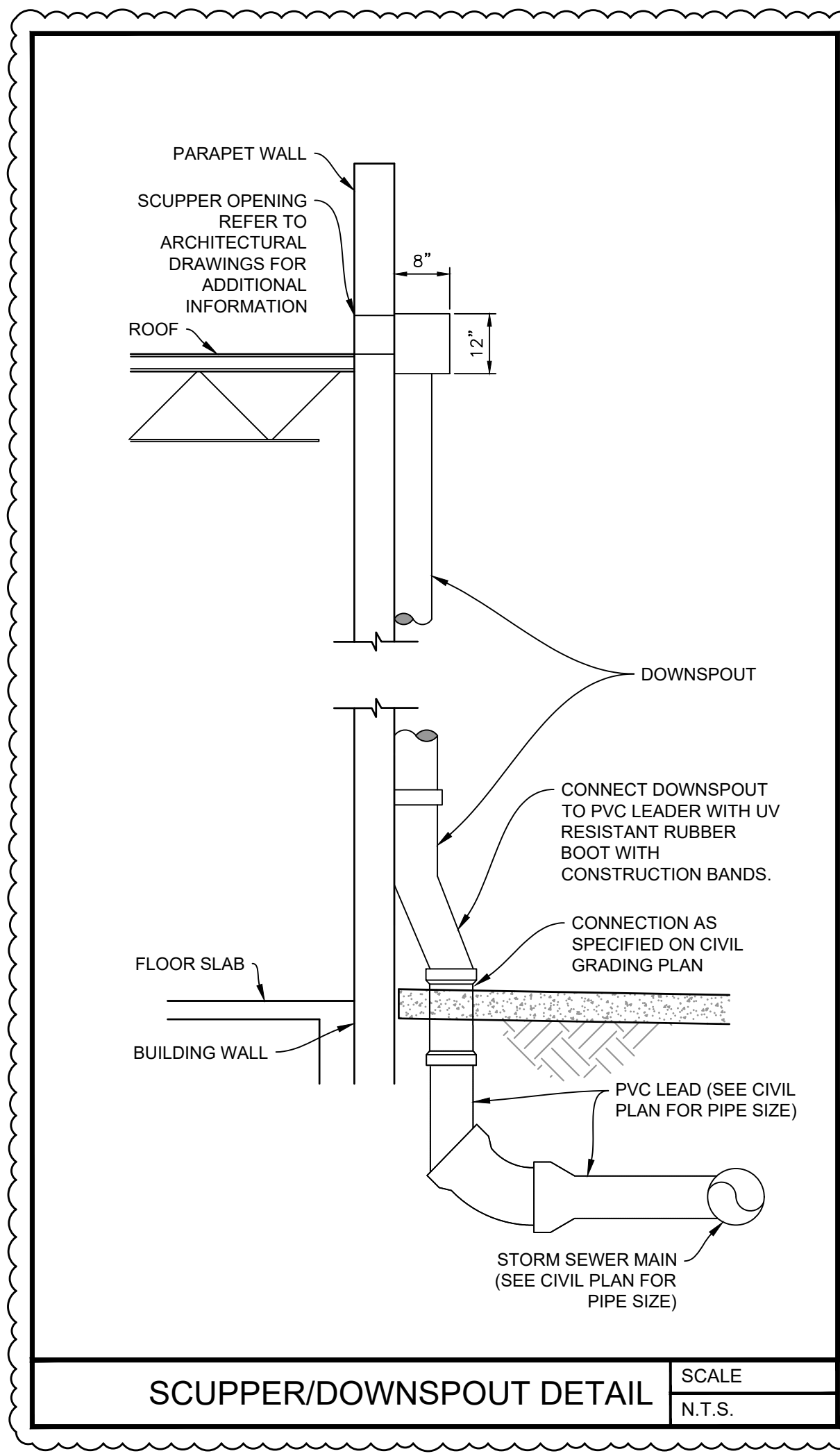
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CEFCO #446 - DEFUNIAK SPRINGS

Project Name and Address
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

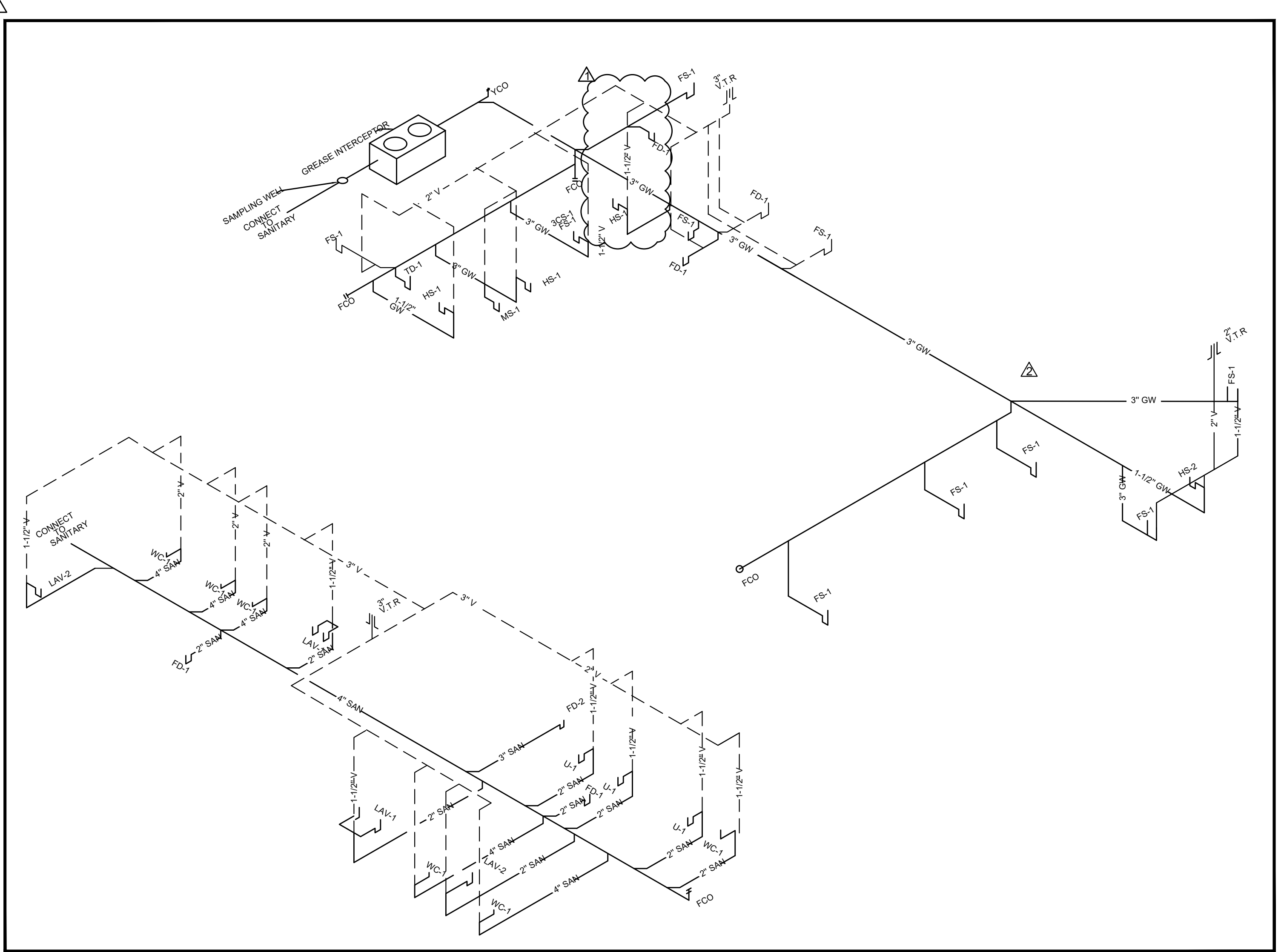
Sheet Title
KITCHEN EXHAUST, HOOD
AND MAKEUP AIR UNIT
DETAILS

Project No. 170-95.00
Drawn By: **MC0.11**
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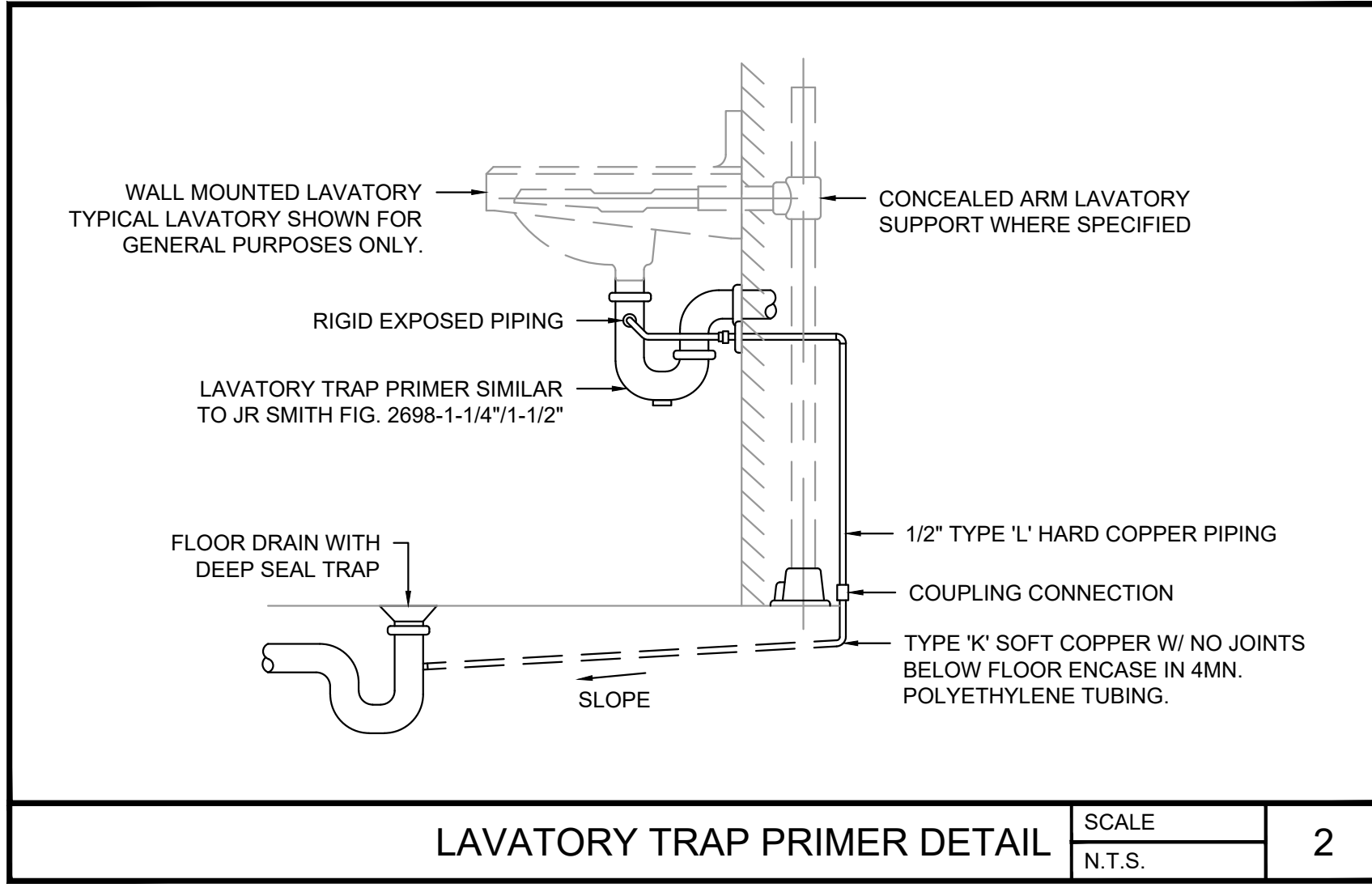
SCUPPER/DOWNSPOUT DETAIL

SCALE
N.T.S.



PLUMBING ISOMETRIC DIAGRAM - SANITARY & VENT

SCALE
N.T.S.



LAVATORY TRAP PRIMER DETAIL

SCALE
N.T.S.

2

MIN. SIZES AND MAX. FLOW RATES OF FIXTURE WATER SUPPLY PIPES:

FIXTURE (1)	MIN. PIPE SIZE (INCH)	MAX. FLOW RATE
HOSE BIBBS	1/2	-
KITCHEN SINK (2)	1/2	2.2 GPM
LAVATORY (PUBLIC)	3/8	0.5 GPM
SINKS, SERVICE	1/2	-
URINAL, FLUSHOMETER VALVE	3/4	1.0 GPM
WATER CLOSET, FLUSHOMETER VALVE	1	1.6 GPF

- NOTES:**
- TABLE INFORMATION GATHERED FROM 2018 INTERNATIONAL PLUMBING CODE TABLE 604.5
 - WHERE THE DEVELOPED LENGTH OF THE DISTRIBUTION LINE IS 50 FEET OR LESS, AND THE AVAILABLE PRESSURE AT THE METER IS 35 PSI OR GREATER, THE MINIMUM SIZE OF AN INDIVIDUAL DISTRIBUTION LINE SUPPLIED FROM A MANIFOLD AND INSTALLED AS PART OF A PARALLEL WATER DISTRIBUTION SYSTEM SHALL BE ONE NOMINAL TUBE SIZE SMALLER THAN THE SIZES INDICATED.

No.	Revision/Issue	Date
1	ISSUE FOR PERMIT	03/31/2023
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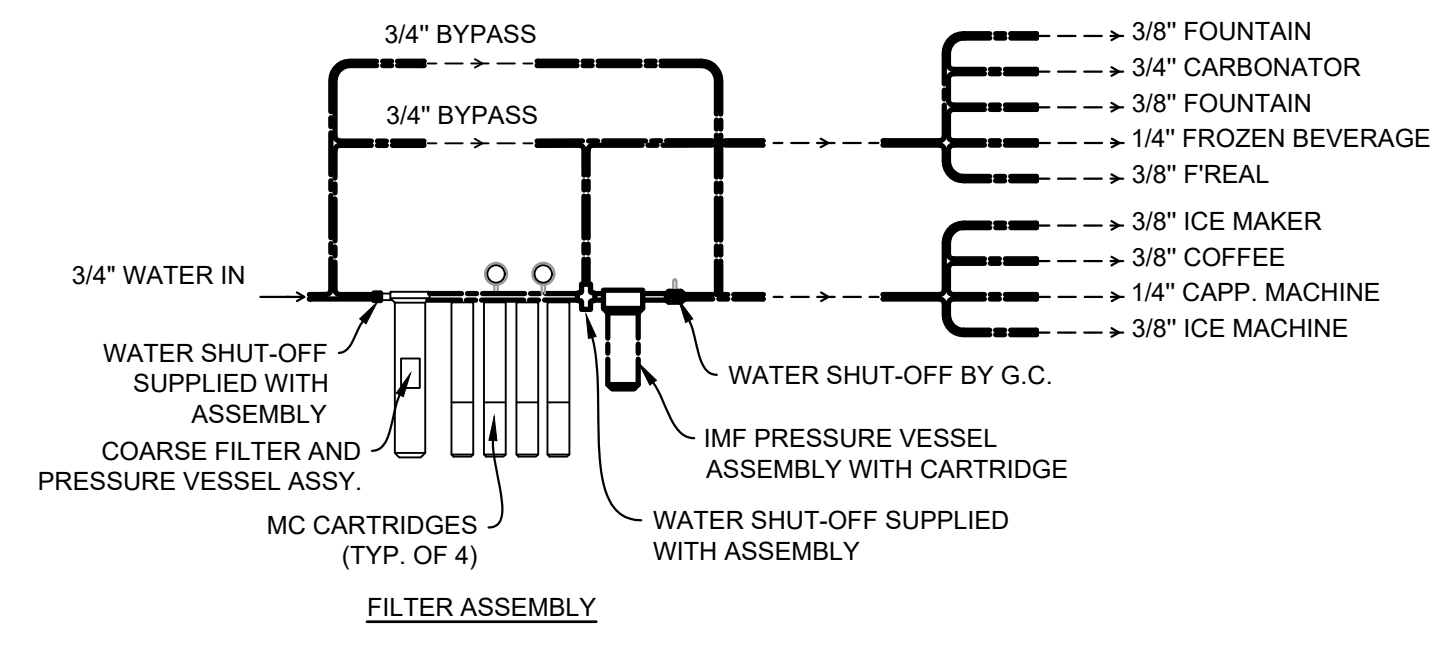
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PLUMBING ISOMETRIC DIAGRAMS - SANITARY & VENT

Project No.
170-95.00

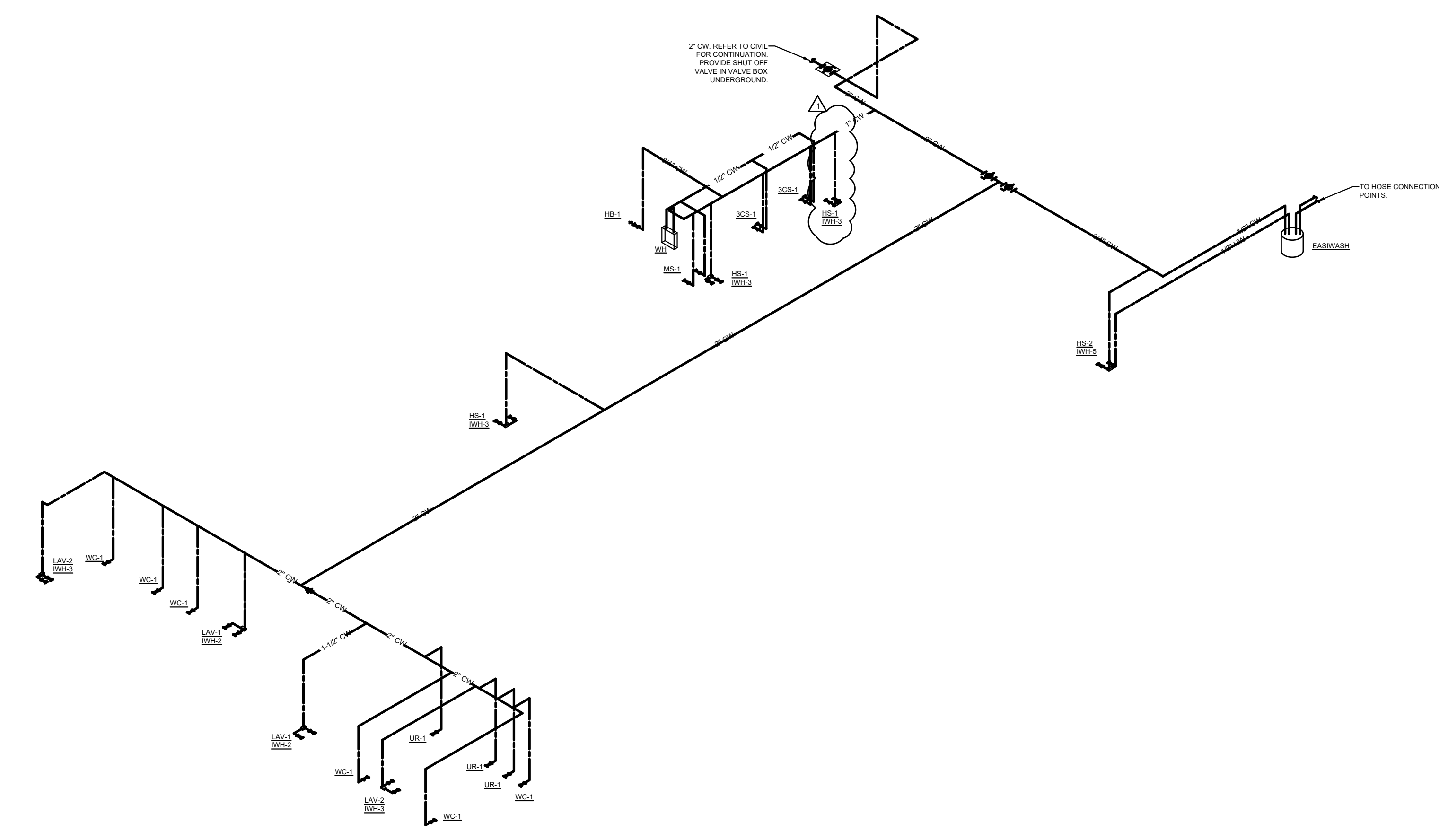
Sheet
P0.3

NOTE: PLUMBING CONTRACTOR TO PROVIDE WATTS MODEL SD-3 BACKFLOW PREVENTER FOR EACH EQUIPMENT WITH FILTERED WATER CONNECTION.

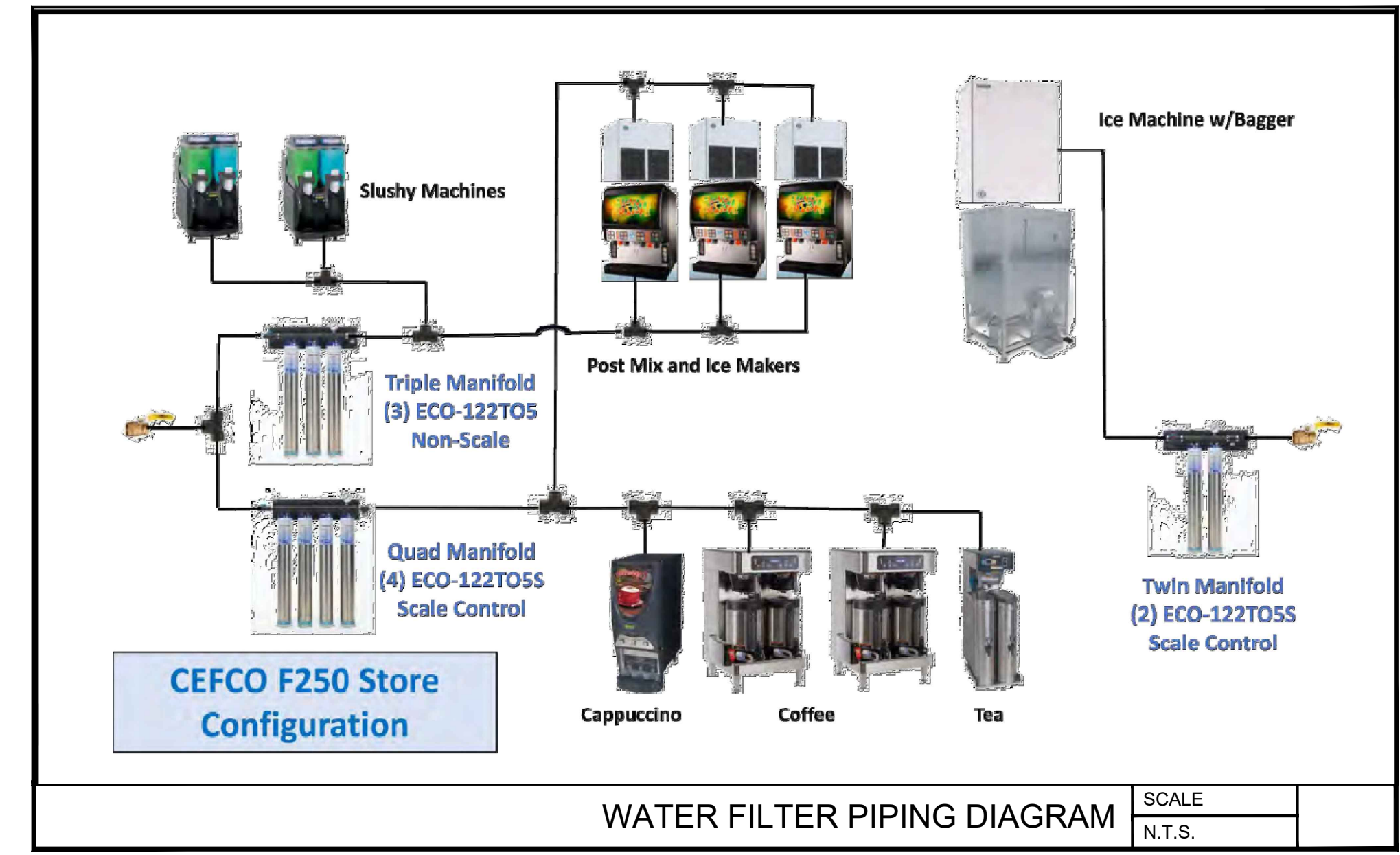
NOTE: TYPICAL PIPING CONFIGURATION. ACTUAL PIPING CONFIGURATION MAY DIFFER DEPENDING ON EQUIPMENT INSTALLED.



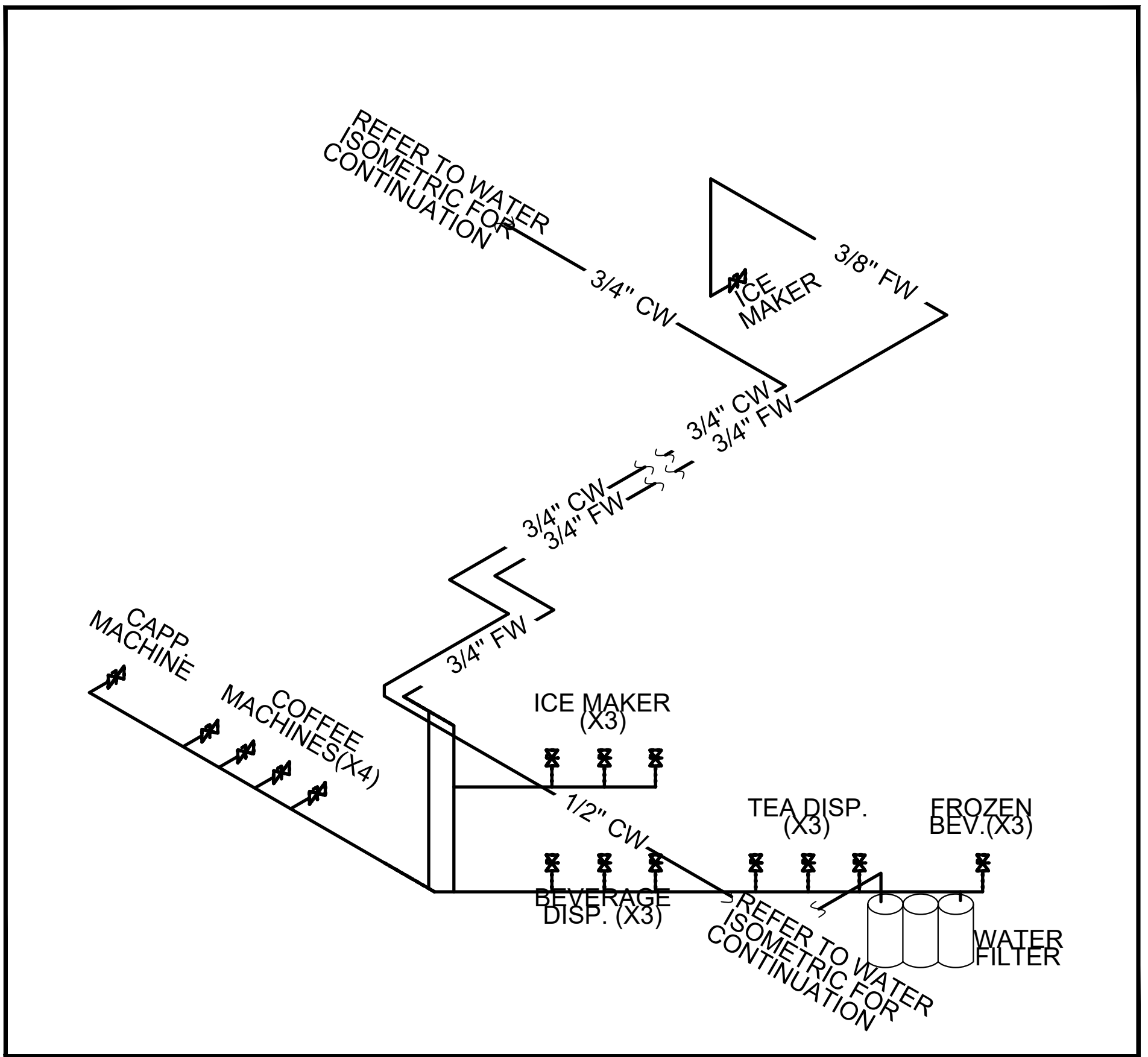
WATER FILTER PIPING DIAGRAM
SCALE: NTS



PLUMBING DOMESTIC WATER PLAN
SCALE: 1/4" = 1'-0"



WATER FILTER PIPING DIAGRAM
SCALE: N.T.S.



PLUMBING FILTERED WATER PLAN
SCALE: NTS

01/04/2024	03/31/2023	Date
ISSUE CLIENT COMMENTS - REV 1	ISSUE FOR PERMIT	Revision/Issue
2	1	No.

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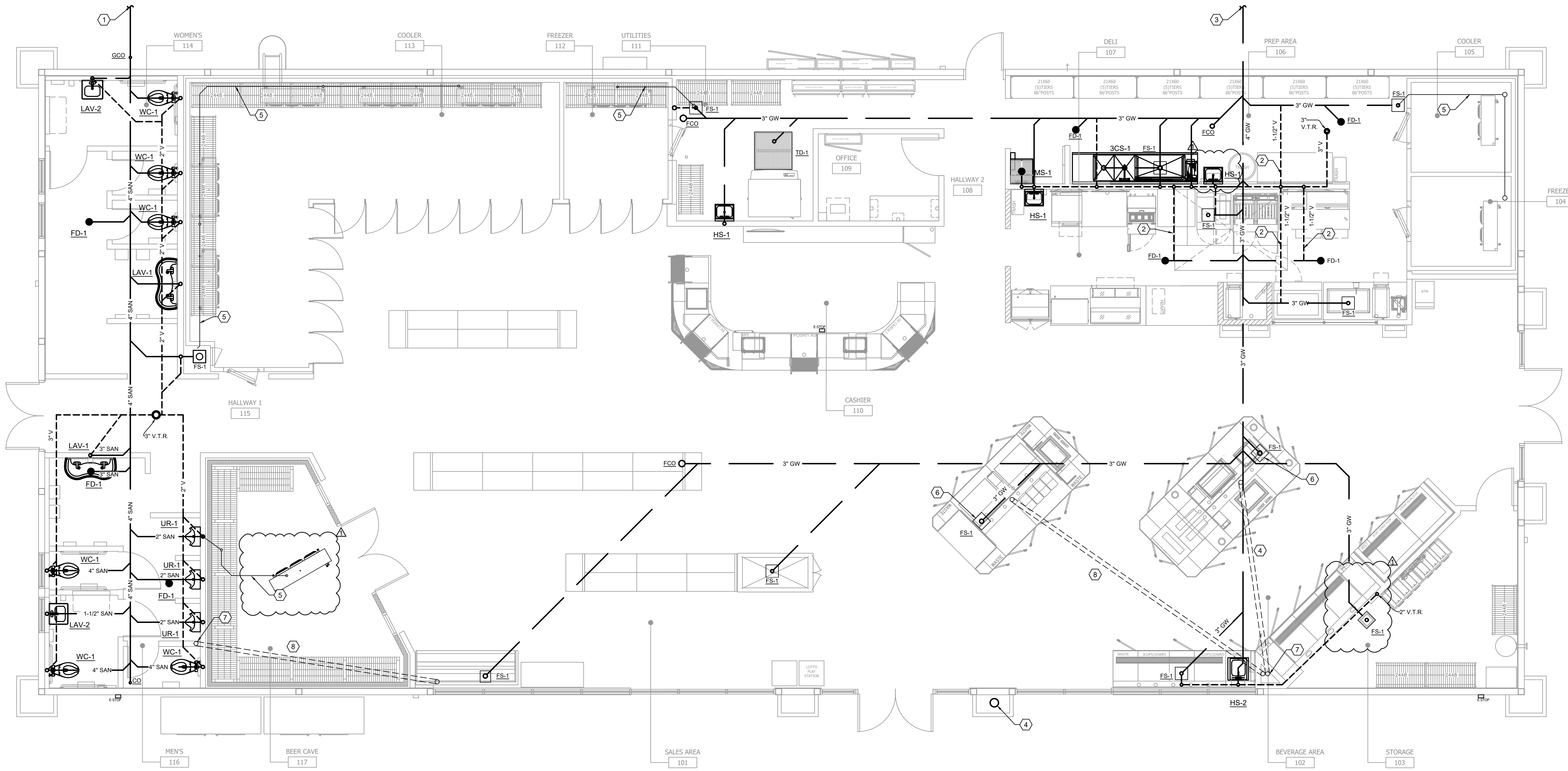
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Project Name and Address:
CEFCO #446 - DEFUNIAK SPRINGS
NWC 1-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title:
PLUMBING ISOMETRIC DIAGRAMS - DOMESTIC WATER

Project No. 170-95.00
Drawn By:
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Sheet: **P0.4**



PLUMBING SANITARY PLAN SCALE
1/4" = 1'-0"

PLAN SHEET NOTES:

- ① 4" SANITARY PIPING. REFER TO CIVIL FOR CONTINUATION
- ② 1-1/2" VENT PIPING UNDERGROUND.
- ③ 4" GREASE WASTE PIPING TO GREASE INTERCEPTOR. REFER TO CIVIL FOR GREASE INTERCEPTOR LOCATION.
- ④ UNDER FLOOR REFRIGERANT LINE CHASE. 4" PVC INSTALLED WITH LONG RADIUS SWEEPS (MINIMUM 24" R.). BED PIPE IN 4" GRAVEL. INSTALL WITH MINIMUM NUMBER OF JOINTS POSSIBLE.
- ⑤ 3/4" CONDENSATE FROM FREEZER EVAPORATOR. DRAIN TO NEAREST FLOOR SINK OR AS SHOWN ON PLAN WITH AIR GAP FITTING.
- ⑥ ROUTE CONDENSATE FROM EQUIPMENT TO FLOOR SINK.
- ⑦ REFRIGERANT LINE CONDUIT TO 12" ABOVE FLOOR SLAB. ROUTE REFRIGERANT PIPING UP THRU ROOF. PROVIDE INSULATED ROOF PENETRATION CURB WITH WEATHER CAP.

No.	Revision/Issue	Date
1	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
2	ISSUE FOR PERMIT	03/31/2023

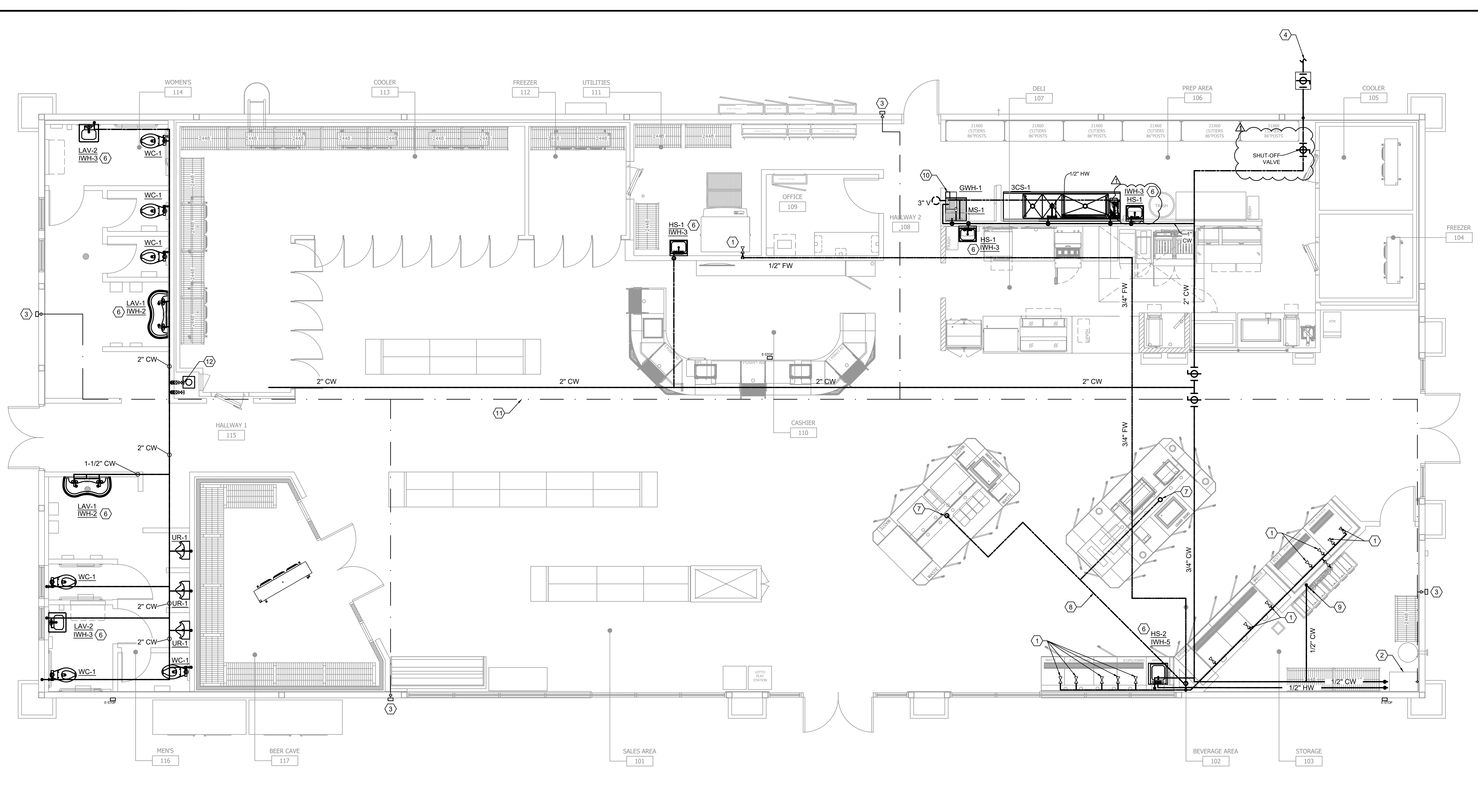
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
N.W.C. 1-10 AND HWY. 331
DEFUNIAK SPRINGS, FL

Sheet Title
PLUMBING PROPOSED PLAN
- SANITARY & VENT

Project No. 170-95.00
Sheet P1.0
Checked By: _____



PLUMBING DOMESTIC WATER PLAN SCALE 1/4" = 1'-0"

PLAN SHEET NOTES:

- ① PLUMBING CONTRACTOR TO PROVIDE RPZ BACKFLOW PREVENTER OUTSIDE MAIN SERVICE LINE. FOR EACH ICE MACHINE AND WATER FILTER INDIVIDUALLY. PROVIDE WATTS MODEL SD-3 BACKFLOW PREVENTER FOR BEVERAGE AND TEA/COFFEE DISPENSERS INDIVIDUALLY. CONTRACTOR TO ENSURE DOUBLE CHECK VALVES (SD-3S) AT EACH BEVERAGE EQUIPMENT LOCATION.
- ② INSTALL EASIWASH SYSTEM PER MANUFACTURER'S INSTRUCTIONS. ROUTE HIGH PRESSURE LINES THRU 2" SCHEDULE 40 PVC WITH LONG RADIUS SWEEP ABOVE CEILING TO HOSE CONNECTION POINTS ON EXTERIOR WALL. REFER TO ARCHITECTURAL EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ③ CONNECT INCOMING HIGH PRESSURE WATER LINE WITH HIGH PRESSURE HOSE AND FREEZE RESISTANT BALL VALVE.
- ④ 2" CW PIPING. REFER TO CIVIL FOR CONTINUATION AND WATER METER LOCATION. PROVIDE LOCKABLE VALVE BOX UNDERGROUND.
- ⑤ 4" PVC REFRIGERANT LINE CHASES AT FLOOR. ROUTE REFRIGERANT LINES UP TO CONDENSING UNIT LOCATED ON ROOF. RUN REFRIGERANT PIPING SUCH THAT MANUFACTURERS MAXIMUM REFRIGERANT PIPE LENGTHS ARE MAINTAINED.
- ⑥ INSTANTANEOUS WATER HEATER INSTALLED UNDERNEATH SINK. REFER TO DETAIL FOR MORE INFORMATION.
- ⑦ PROVIDE 3/4" CW STUB-UP FOR FUTURE USE.
- ⑧ 3/4" FILTERED CW PIPING UNDER SLAB.
- ⑨ 1/2" CW PIPING ROUTED TO WATER FILTER. REFER TO ARCHITECTURAL FOR EXACT LOCATION AND SPECIFICATIONS.
- ⑩ TANKLESS GAS WATER HEATER INSTALLED ABOVE MOP SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS. CONNECT 3/4" CW, 3/4" HW, AND 3/4" NATURAL GAS. PROVIDE 3" PVC DIRECT VENT AS PER MANUFACTURERS RECOMMENDATIONS.
- ⑪ 2" SCHEDULE 40 PVC CONDUIT FOR HIGH PRESSURE SERVICE LINE WITH LONG RADIUS SWEEP.
- ⑫ WATER SHUT-OFF FOR BOTH RESTROOMS TO BE ACCESSED FROM ACCESS PANEL IN WALK-IN-COOLER. CONTRACTOR TO DETERMINE BEST LOCATION.

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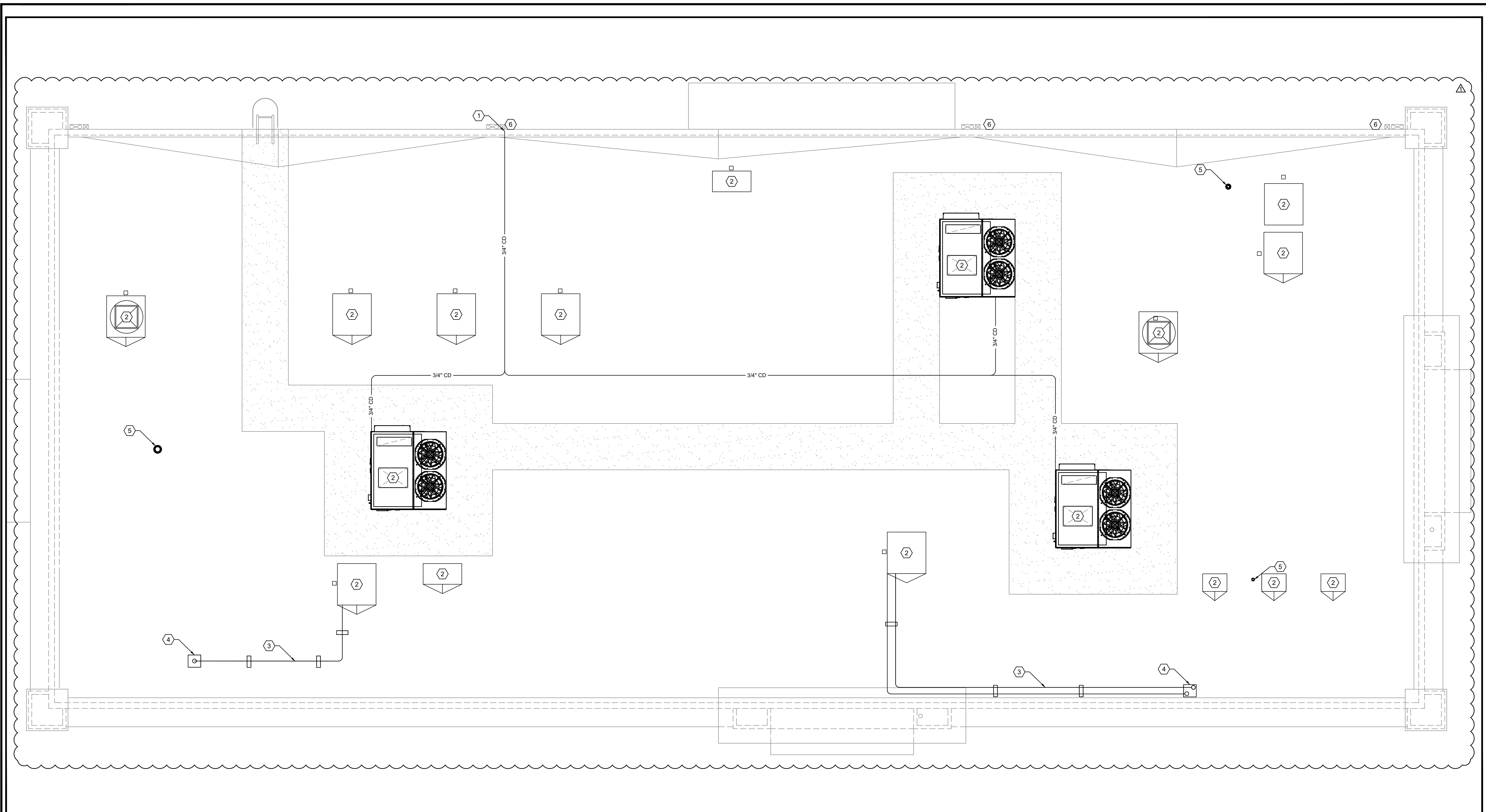
RICHARD KIMBALL, P.E.
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Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC 1-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
PLUMBING PROPOSED PLAN - DOMESTIC WATER

Project No. 170-95.00
 Drawn By:
 Checked By:

Sheet
P2.0



PLUMBING ROOF PLAN SCALE
1/4" = 1'-0"

- PLAN SHEET NOTES:**
- 1 3/4" CONDENSATE PIPING. DRAIN TO STORM GUTTER.
 - 2 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.
 - 3 PROVIDE ROOF MOUNTED PIPING ANCHORS AT 6'-0" O.C. AND STRAP PIPE PER PIPING ANCHOR AND SUPPORT SCHEDULE.
 - 4 ROUTE REFRIGERANT PIPING DOWN THROUGH PIPING CURBS TO PVC CHASES BELOW.
 - 5 VENT THROUGH ROOF. SEE SANITARY PLAN FOR SIZE AND LOCATION. ENSURE VENT IS 10' AWAY FROM ANY MECHANICAL INTAKES.
 - 6 ALL DOWNSPOUTS TO BE TIED INTO UNDERGROUND STORMWATER PIPING. REFER TO SCUPPER/DOWNSPOUT DETAIL ON SHEET [ED.3](#) AND CIVIL DRAWINGS FOR MORE INFORMATION.

No.	Revision/Issue	Date
1	ISSUE FOR PERMIT	03/31/2023
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024

INFINITY
INFINITY ENGINEERING GROUP, LLC
1208 East Kennedy Boulevard Suite 230
Tampa, Florida 33602
Tel: 813.434.4770
Fax: 813.445.4211
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FL Cert. of Auth. No. 27889

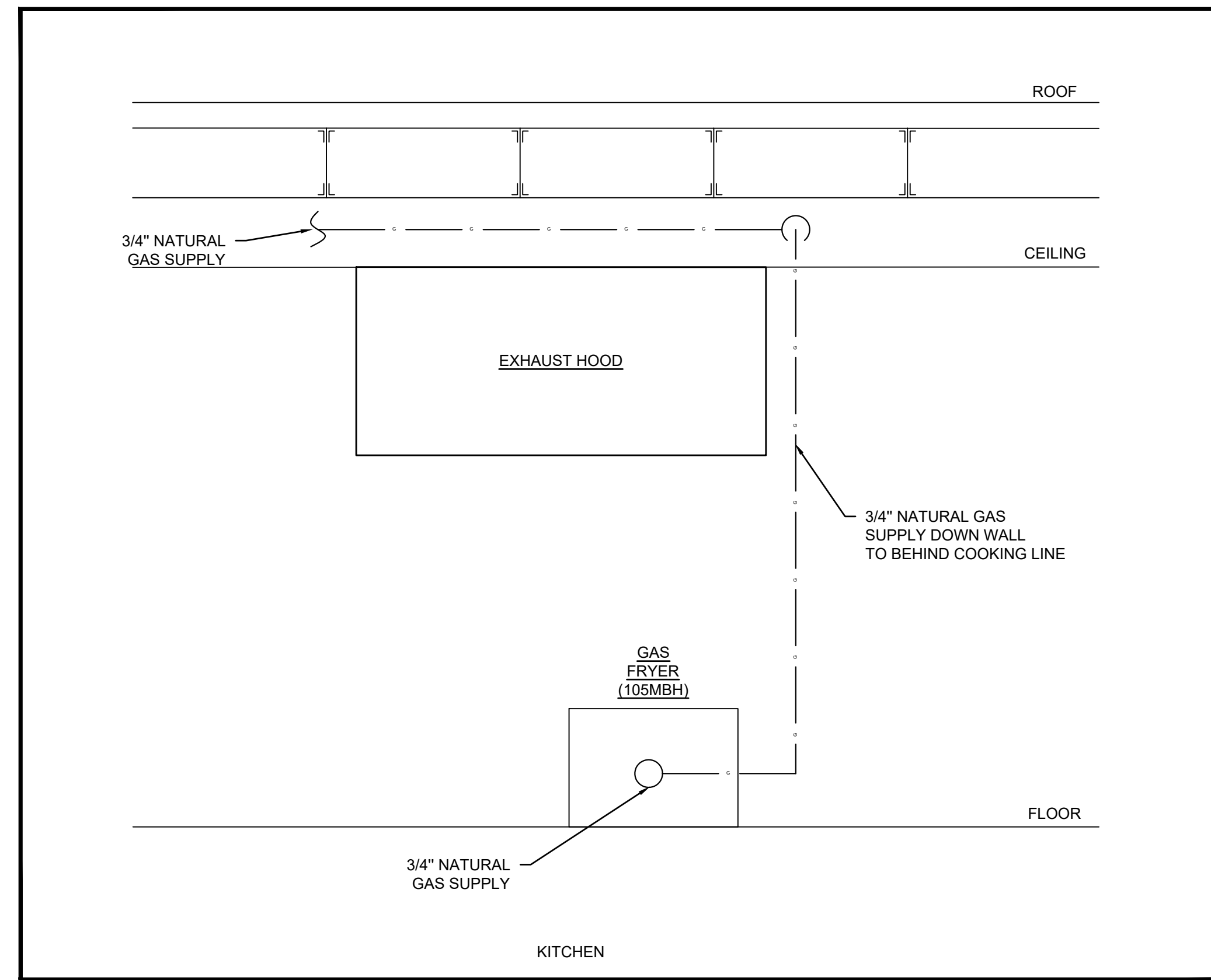
Richard Kimball, P.E.
FL REG. NO. 79067

Date _____

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC 1-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
PLUMBING PROPOSED ROOF PLAN

Project No. 170-95.00
Sheet P3.0
Checked By: _____



PLUMBING ELEVATION DETAIL SCALE: NTS

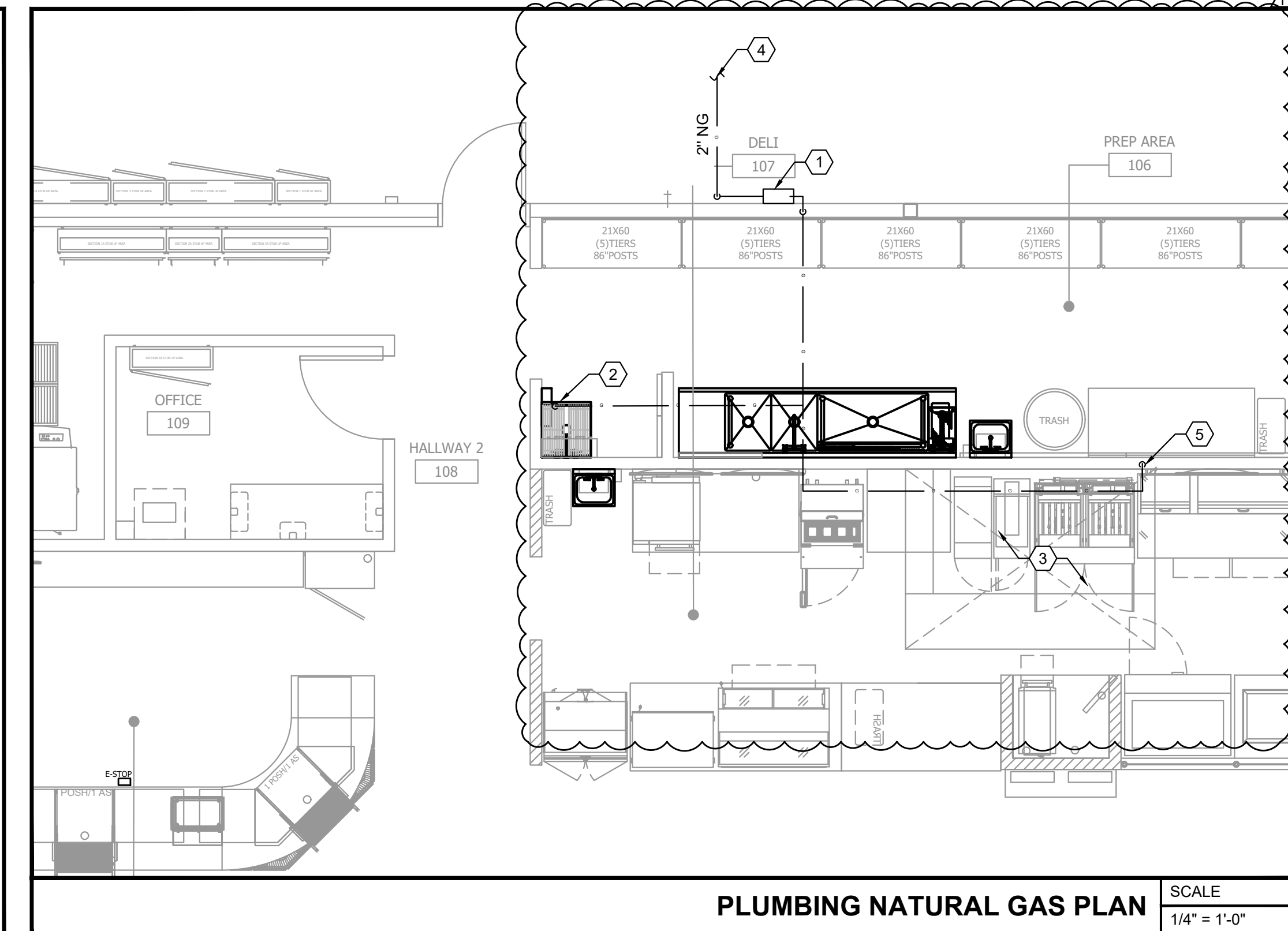
NATURAL GAS CALCULATION:

EQUIPMENT REQUIRING NAT. GAS

APPLIANCE	INLET SIZE	BTU
GAS FRYER	3/4"	105,000
GWH-1	3/4"	199,000

TOTAL BTU = 304,000 BTU
 PIPE LENGTH TO MOST REMOTE FIXTURE = 30FT
 REQUIRED PIPE SIZE = 2"

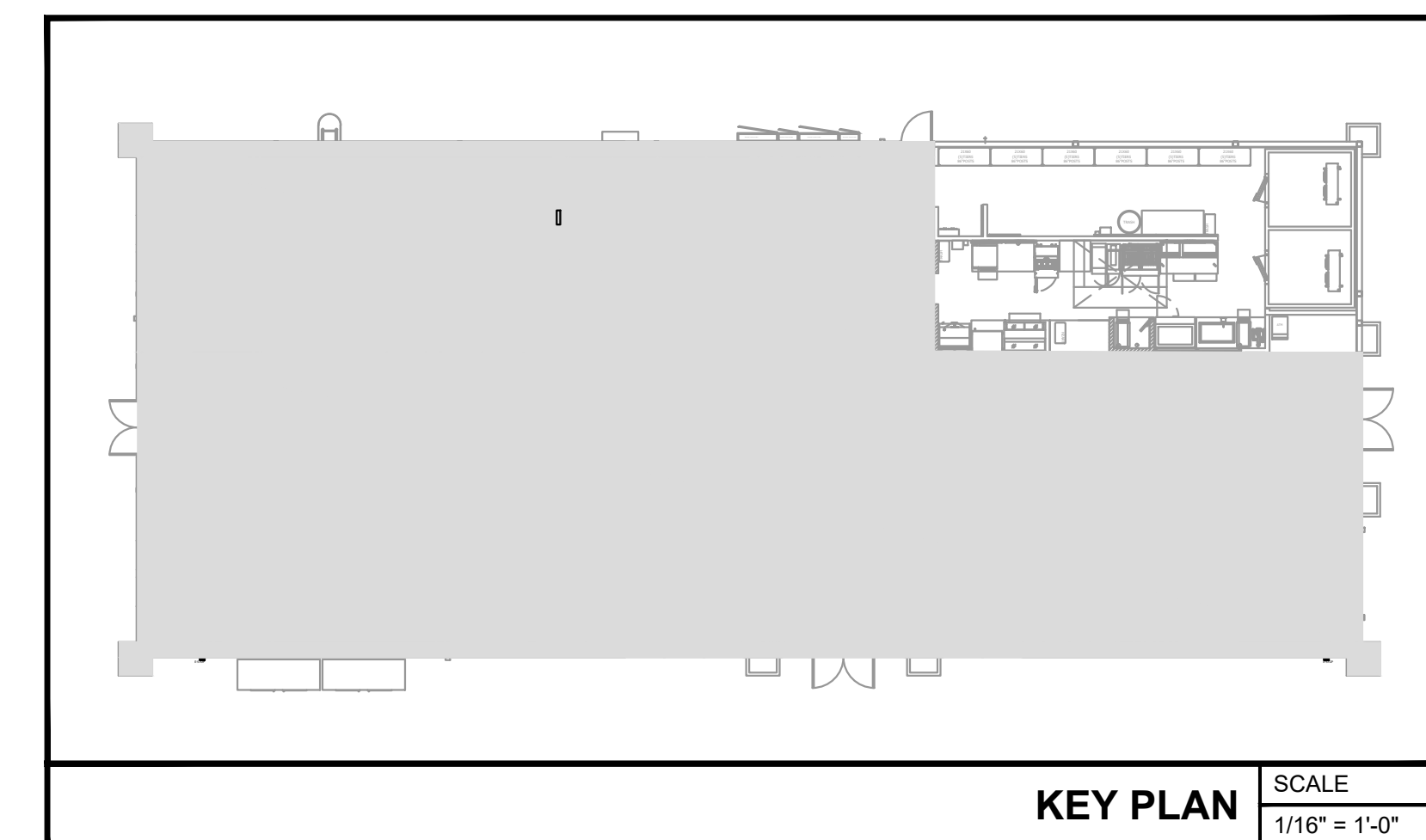
NOTE: ALL COOKING EQUIPMENT UNDER HOOD MUST BE SHUT-OFF AUTOMATICALLY UPON ACTIVATION OF HOOD SUPPRESSION SYSTEM, PER NFPA CODES, UTILIZING SHUNT-TRIP BREAKERS BY CONTRACTOR, AS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, OR GAS SUPPLY SHUT-OFF VALVES, AS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. GAS VALVE SERVING HOOD GAS EQUIPMENT SHALL BE A 120V SOLENOID TYPE THAT FAILS IN THE CLOSED POSITION.



PLUMBING NATURAL GAS PLAN SCALE: 1/4" = 1'-0"

PLAN SHEET NOTES:

- 1 INSTALL NEW GAS METER. PROVIDE GAS PRESSURE REGULATOR, AND MAIN BUILDING SHUTOFF VALVE. COORDINATE EXACT LOCATION WITH UTILITY COMPANY AND CIVIL.
- 2 INSTALL GAS INSTANTANEOUS WATER HEATER PER MANUFACTURERS INSTRUCTIONS. CONNECT 3/4" NATURAL GAS LINE TO NEAREST MAIN. PROVIDE SHUT OFF VALVE. CONNECT 3" PVC DIRECT VENT AND ROUTE THRU ROOF. TERMINATE MINIMUM 12" ABOVE ROOF.
- 3 ALL COOKING EQUIPMENT UNDER HOOD MUST BE SHUT-OFF AUTOMATICALLY UPON ACTIVATION OF HOOD SUPPRESSION SYSTEM, PER NFPA CODES, UTILIZING SHUNT-TRIP BREAKERS BY CONTRACTOR, AS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, OR GAS SUPPLY SHUTOFF VALVES, AS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. GAS VALVE SERVING HOOD GAS EQUIPMENT SHALL BE A 120V SOLENOID TYPE THAT FAILS IN THE CLOSED POSITION.
- 4 2" NATURAL GAS PIPING. REFER TO CIVIL FOR CONTINUATION.
- 5 3/4" GAS TO DUAL FRYER, INSTALL REGULATOR SUPPLIED WITH UNIT AND FLEX LINE TO EQUIPMENT WHERE ALLOWED BY LOCAL CODES.



KEY PLAN SCALE: 1/16" = 1'-0"

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/01/2023



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RICHARD KIMBALL, P.E.
 FL REG. NO. 79067

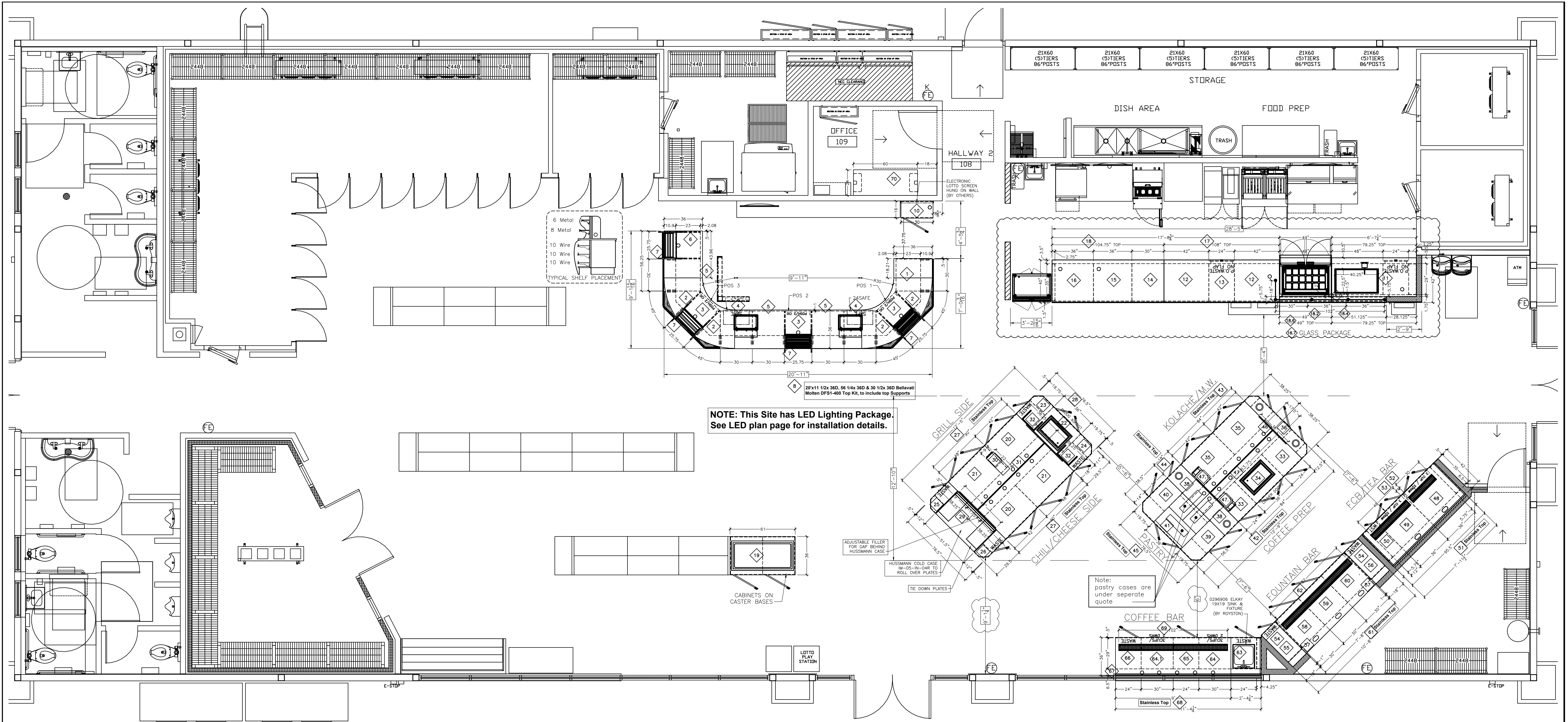
Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC 110 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
PLUMBING PROPOSED PLAN
- NATURAL GAS

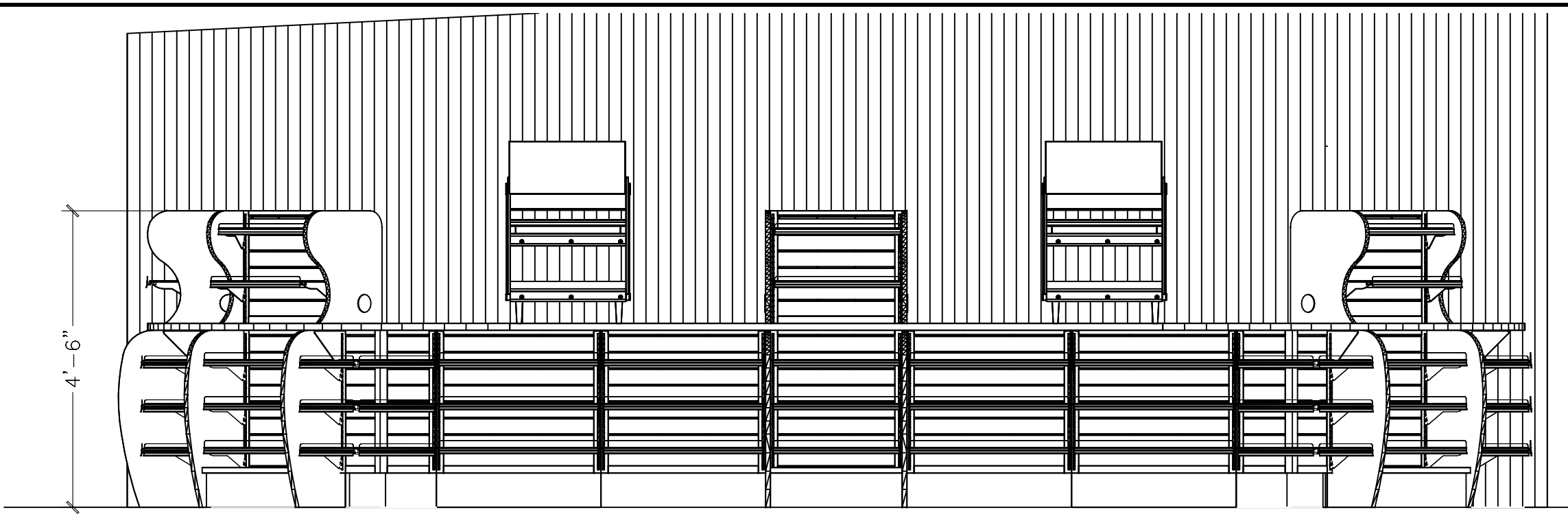
Project No. 170-95.00
 Drawn By:
 Checked By:

Sheet P4.0

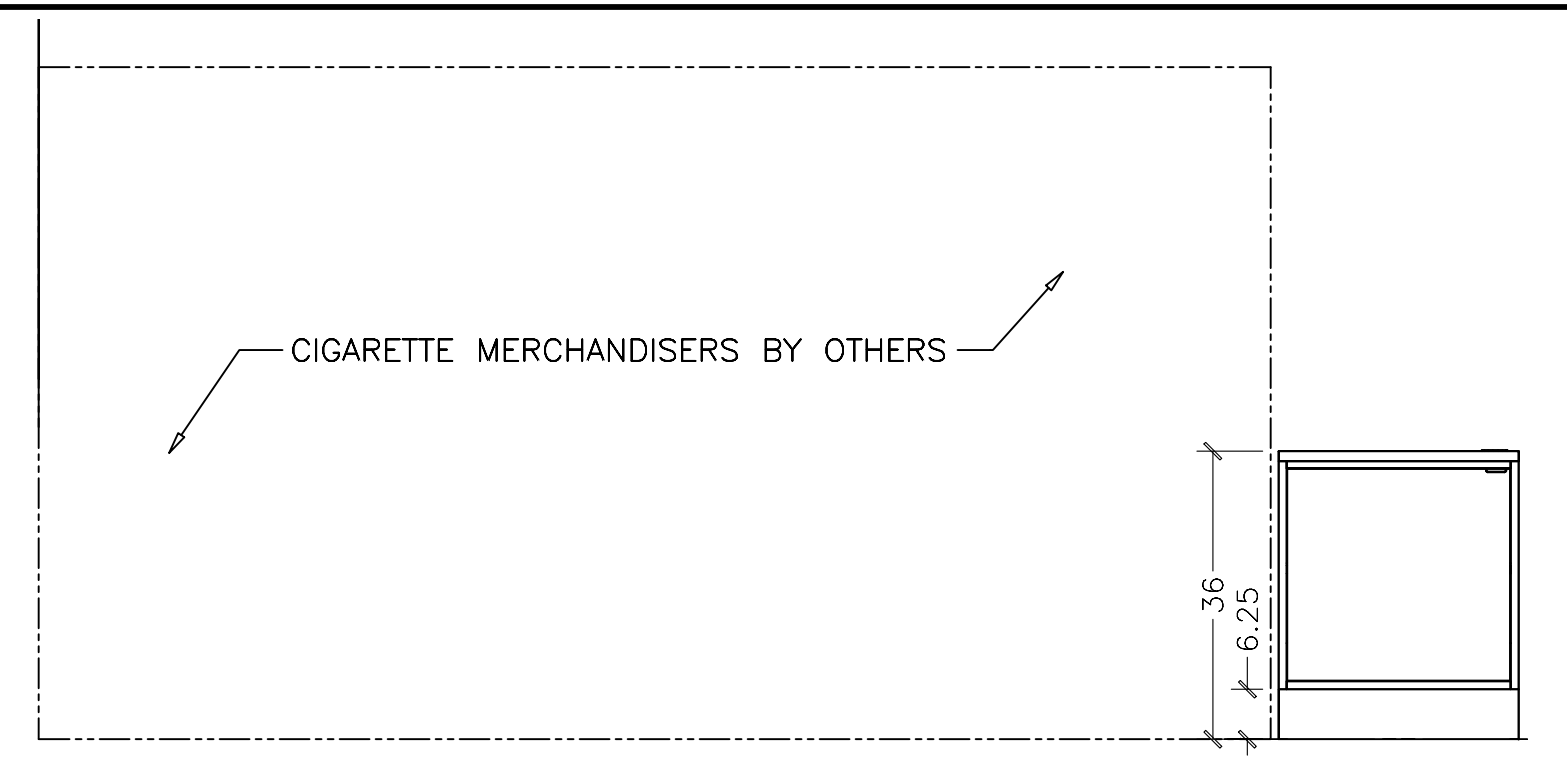


NOTE: This Site has LED Lighting Package.
See LED plan page for installation details.

PLAN VIEW
SCALE: 1/4" = 1'-0"



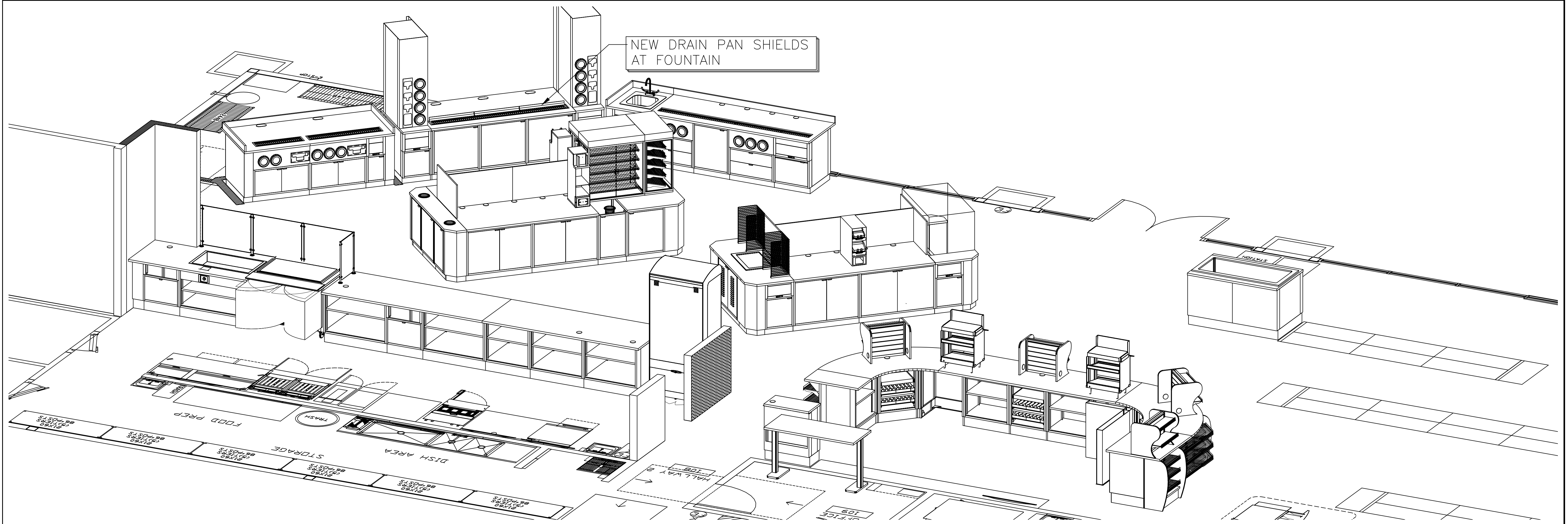
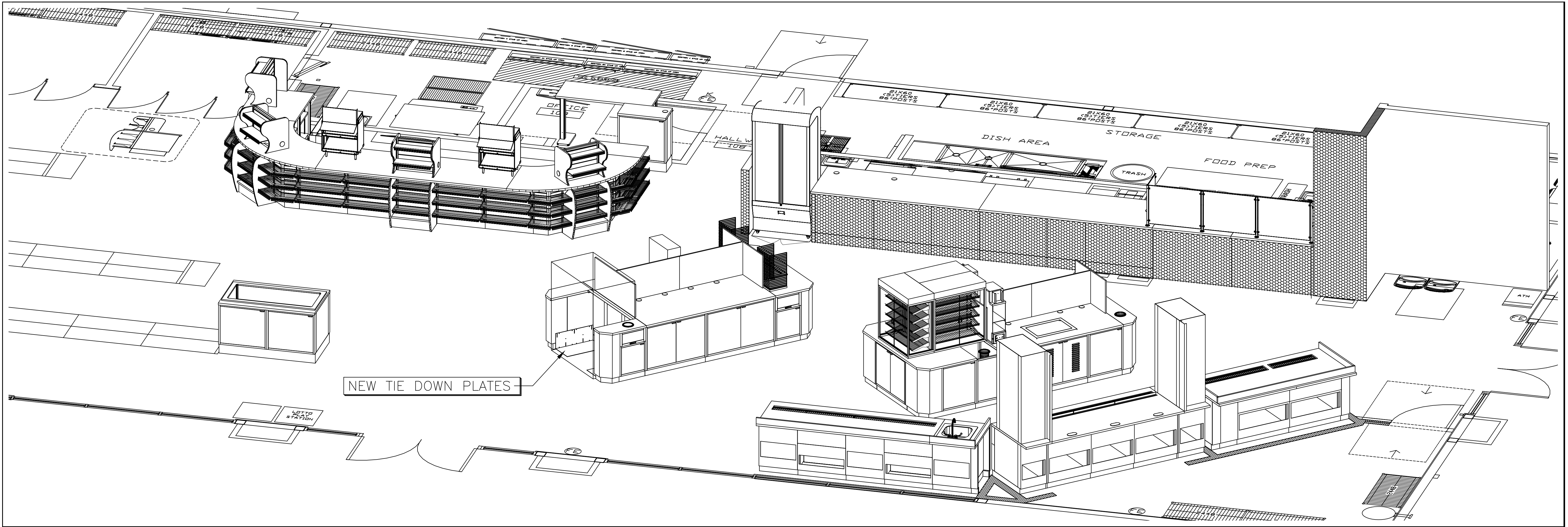
CASHEIR FRONT COUNTER ELEVATION

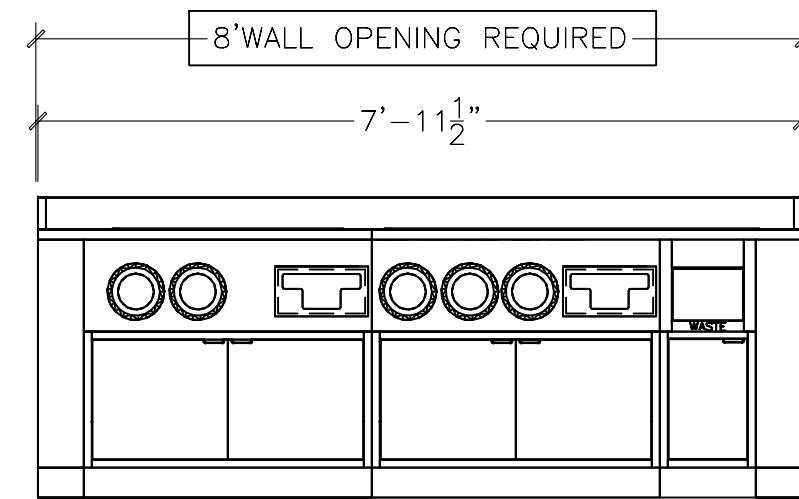
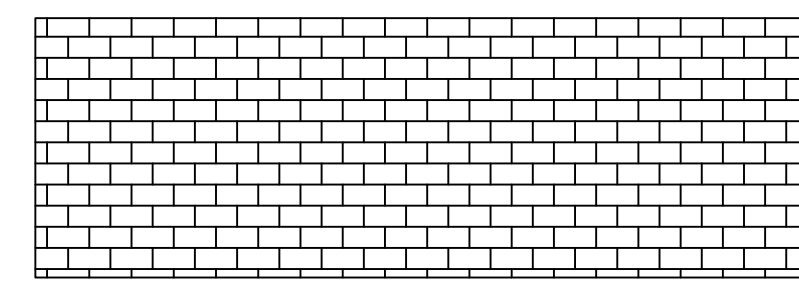


CASHEIR BACKWALL ELEV.
SCALE: 1/2" = 1'-0"

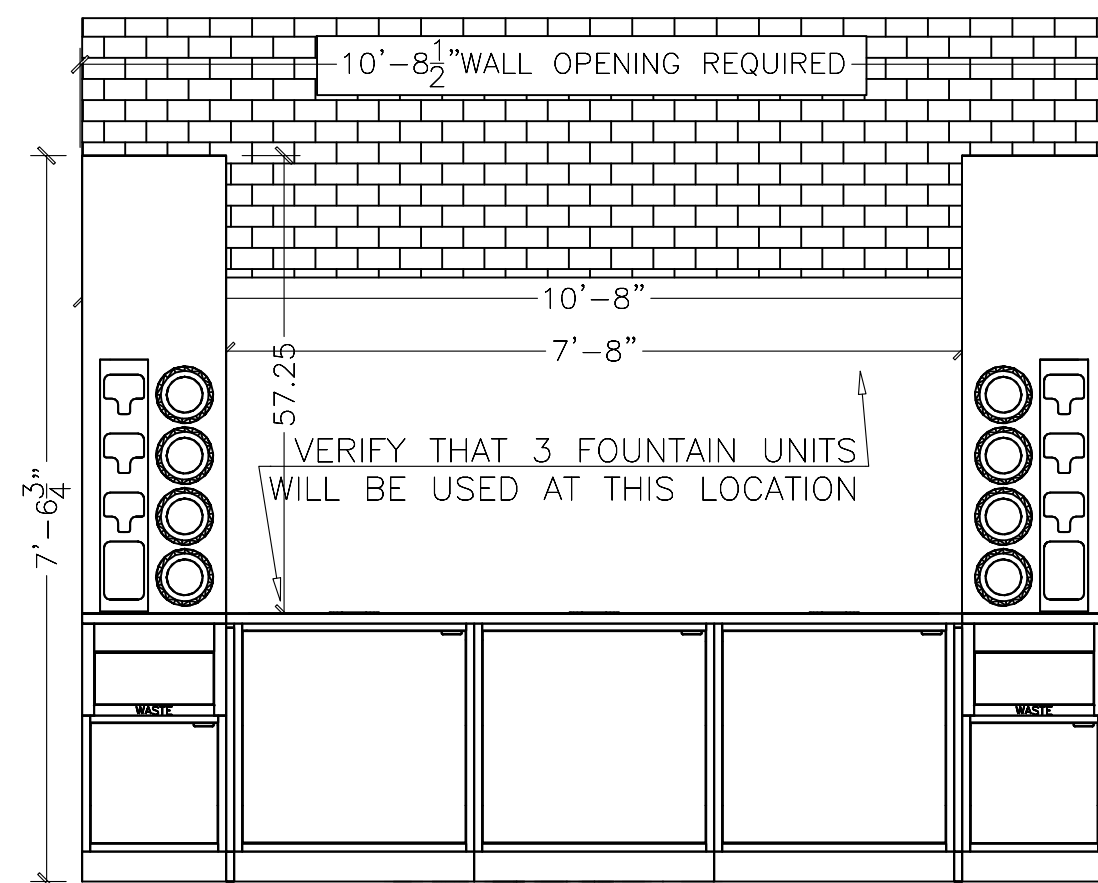
CASHIER AREA Specifications
Cabinet - Black Hammertone 040
Base - Black Hammertone 040
Laminate - Formica Blossom Cherrywood 758-58 (195)
Solid Surface Top - Bellavati Molten DFS1-400
Shelving - Black Hammertone

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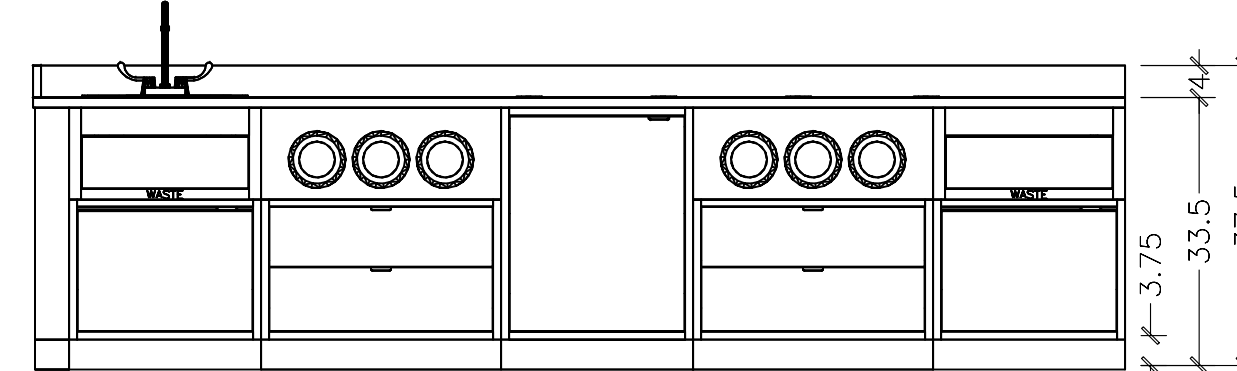




FCB ELEVATION



FOUNTAIN ELEVATION

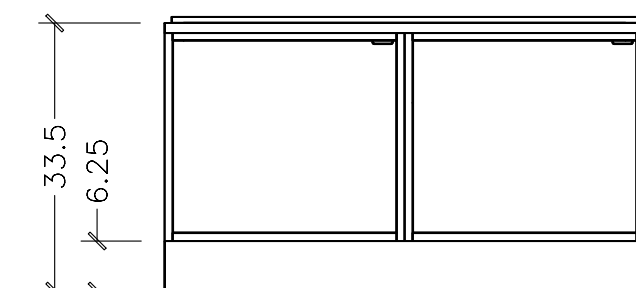


COFFEE WALL ELEVATION

SCALE: 1/2 = 1'-0

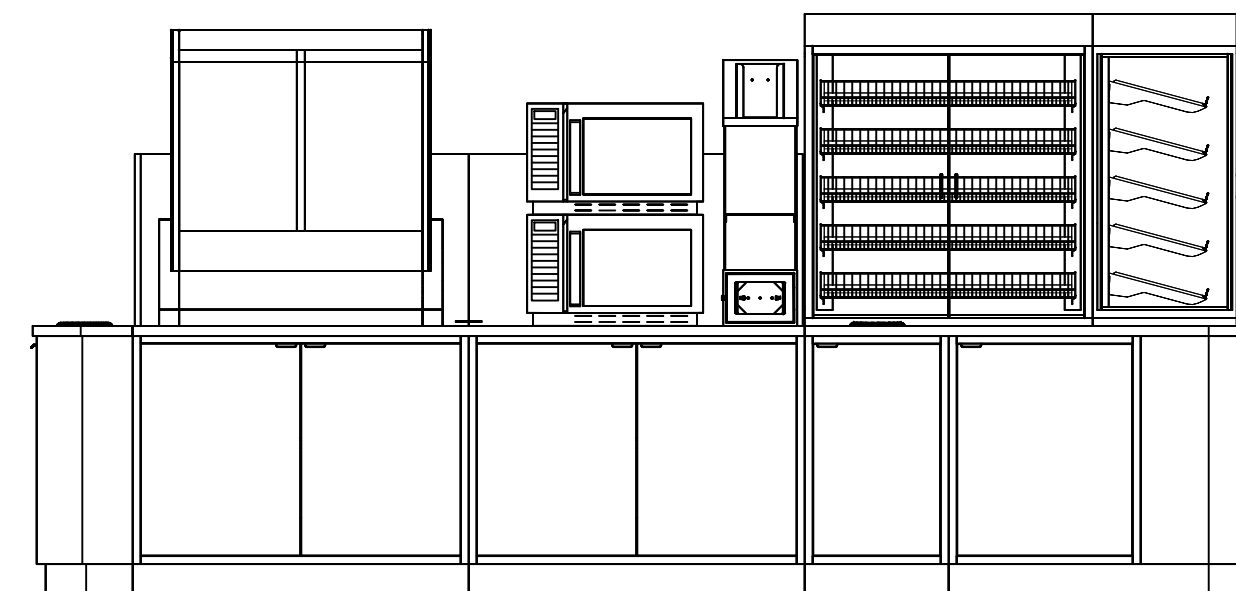
COFFEE, FOUNTAIN AND FCB Specifications
 Cabinet - Black Hammertone 040
 Base - Black Hammertone 040
 Laminate - Formica Smoky Brown Pear 5488-NT #494
 Top - Stainless Steel
 Towers - Formica Smoky Brown Pear 5488-NT #494

ICED DRINKS Specifications
 Cabinet - Black Hammertone 040
 Base - Black Hammertone 040
 Laminate - Formica Blossom Cherrywood 758-58 #195
 Top - Stainless Steel

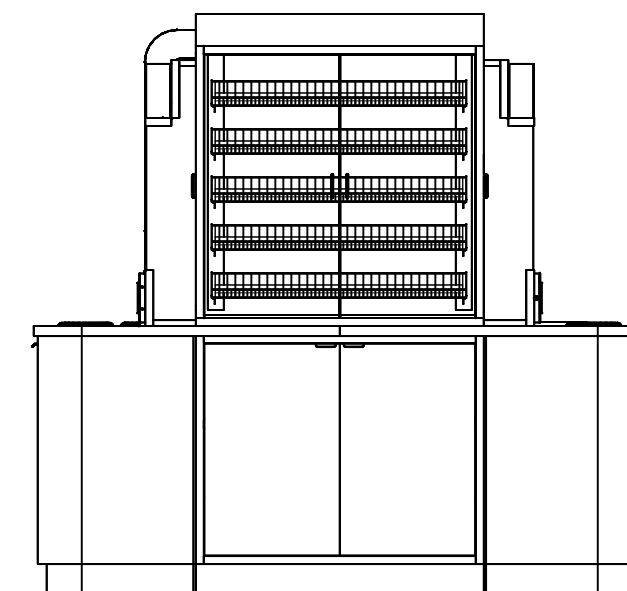


ICED DRINKS ELEV.
 SCALE: 1/2 = 1'-0

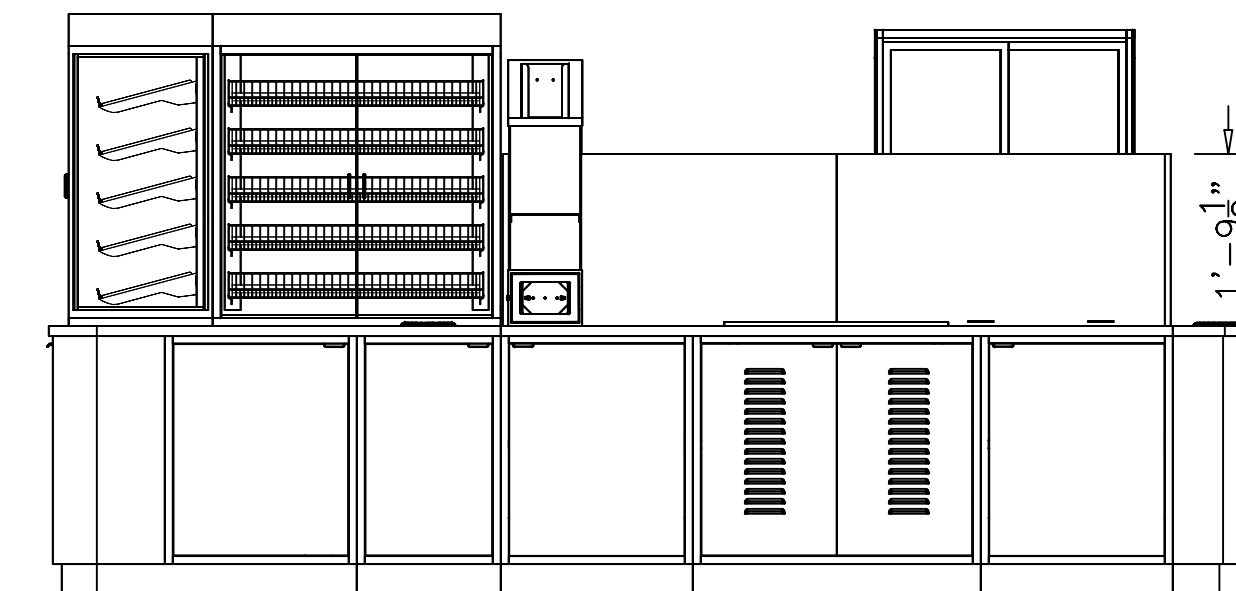
COFFEE/FOOD PREP ISLAND Specifications
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 Base - Black Hammertone 040
 Laminate - Formica Blossom Cherrywood 758-58 #195
 Top - Stainless Steel



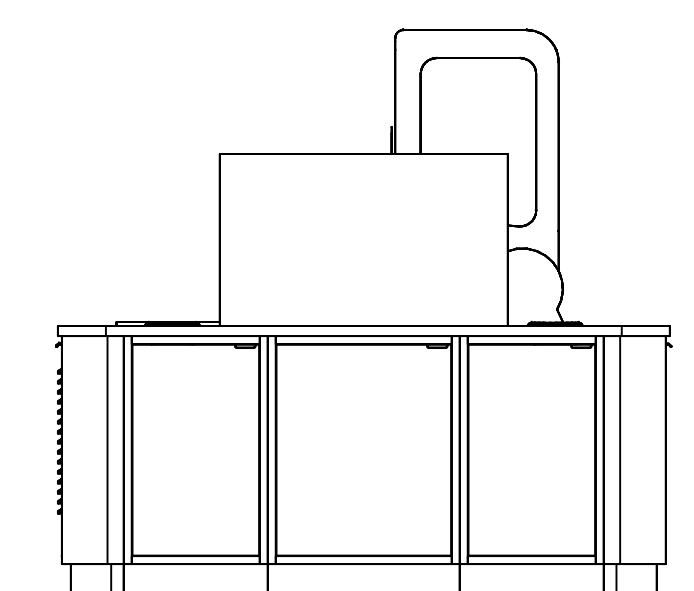
PREP ELEVATION



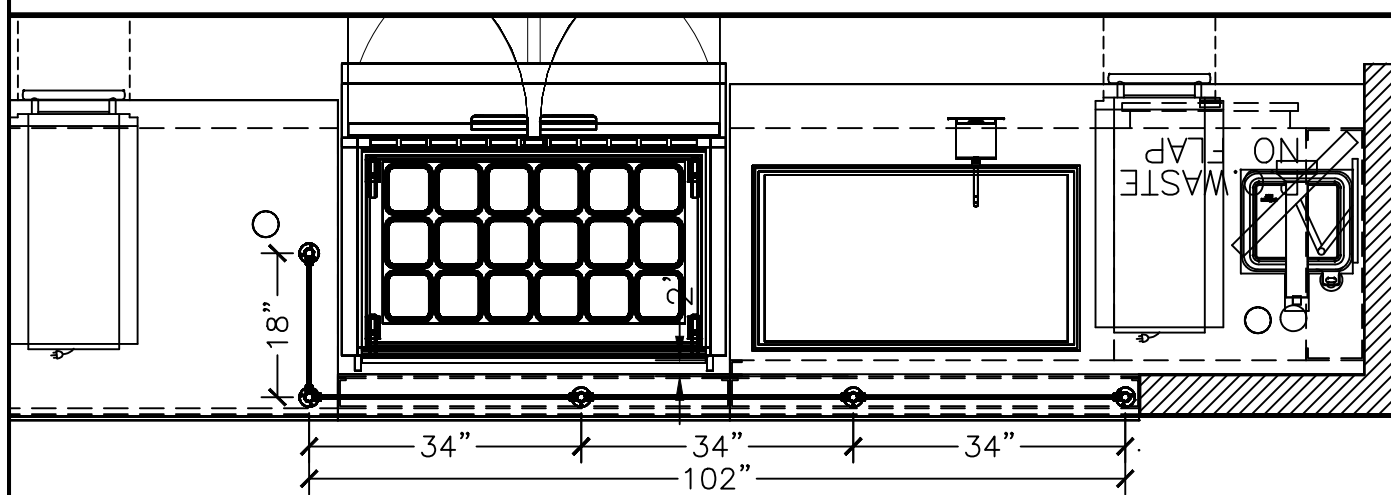
PASTRY



COFFEE PREP ELEVATION

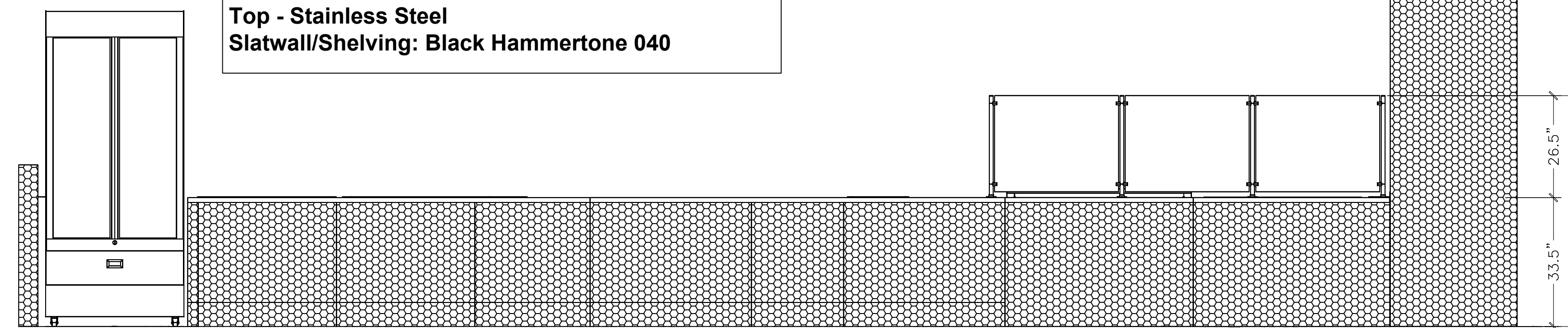


HUSSMANN COLD
 SCALE: 1/2 = 1'-0



GLASS DETAILS

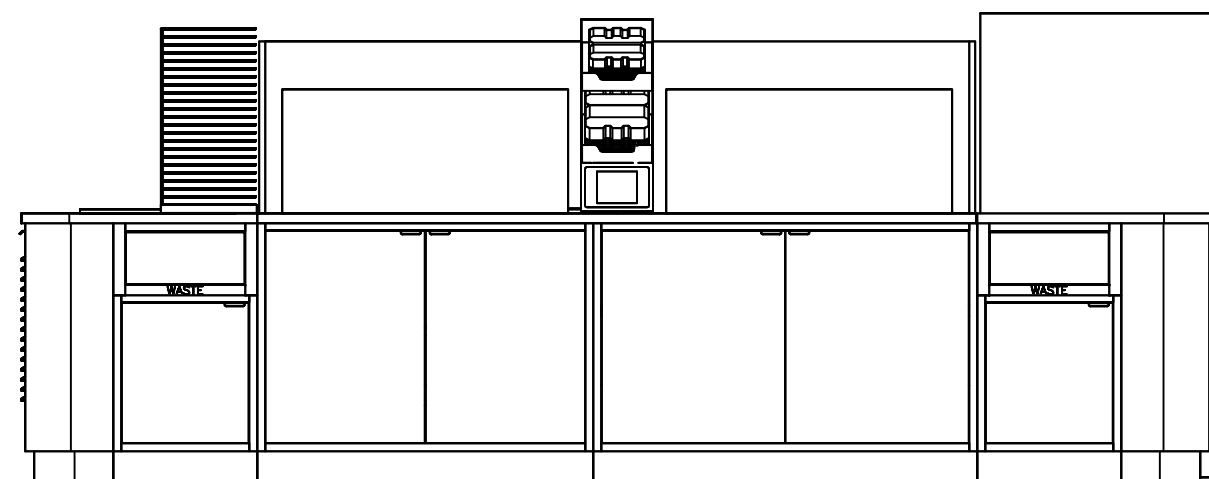
DELI AREA Specifications
 Cabinet - Black Hammertone 040
 Base - Black Hammertone 040
 Top - Stainless Steel
 Slatwall/Shelving: Black Hammertone 040



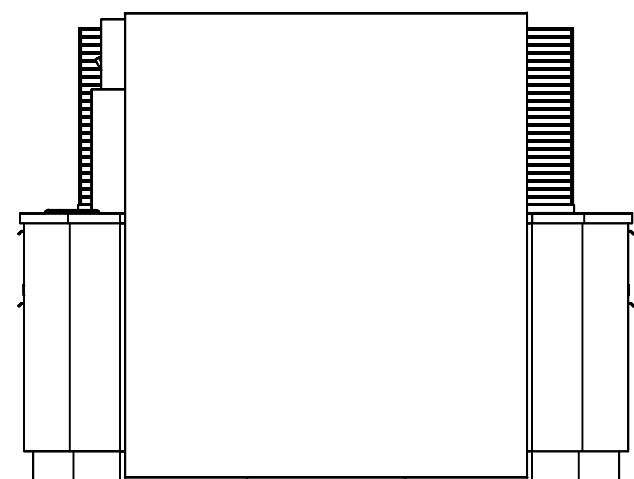
DELI FRONT COUNTER ELEVATION

SCALE: 1/2 = 1'-0

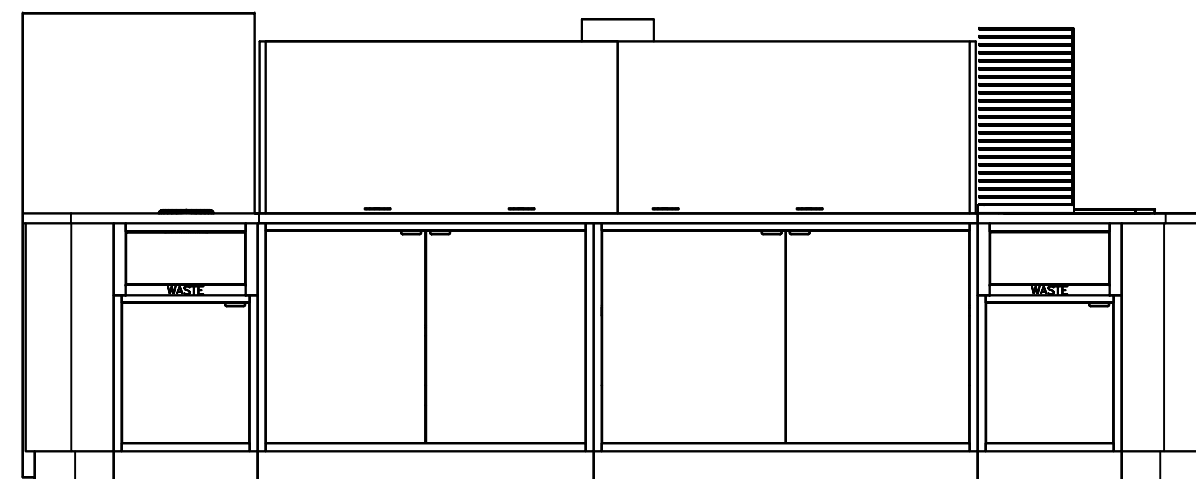
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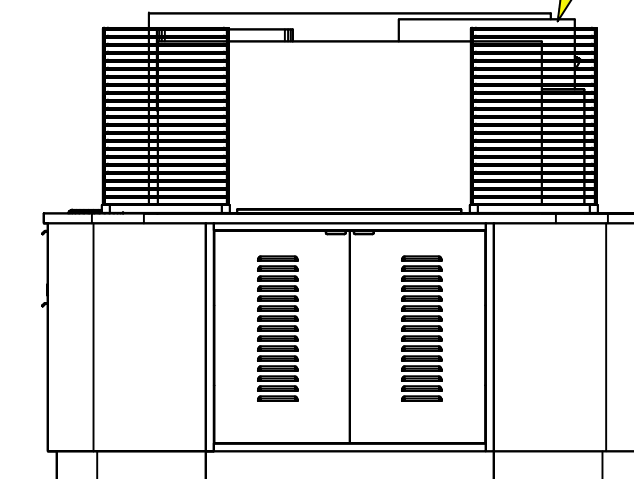
GRILLS ELEVATION



HUSSMANN COLD



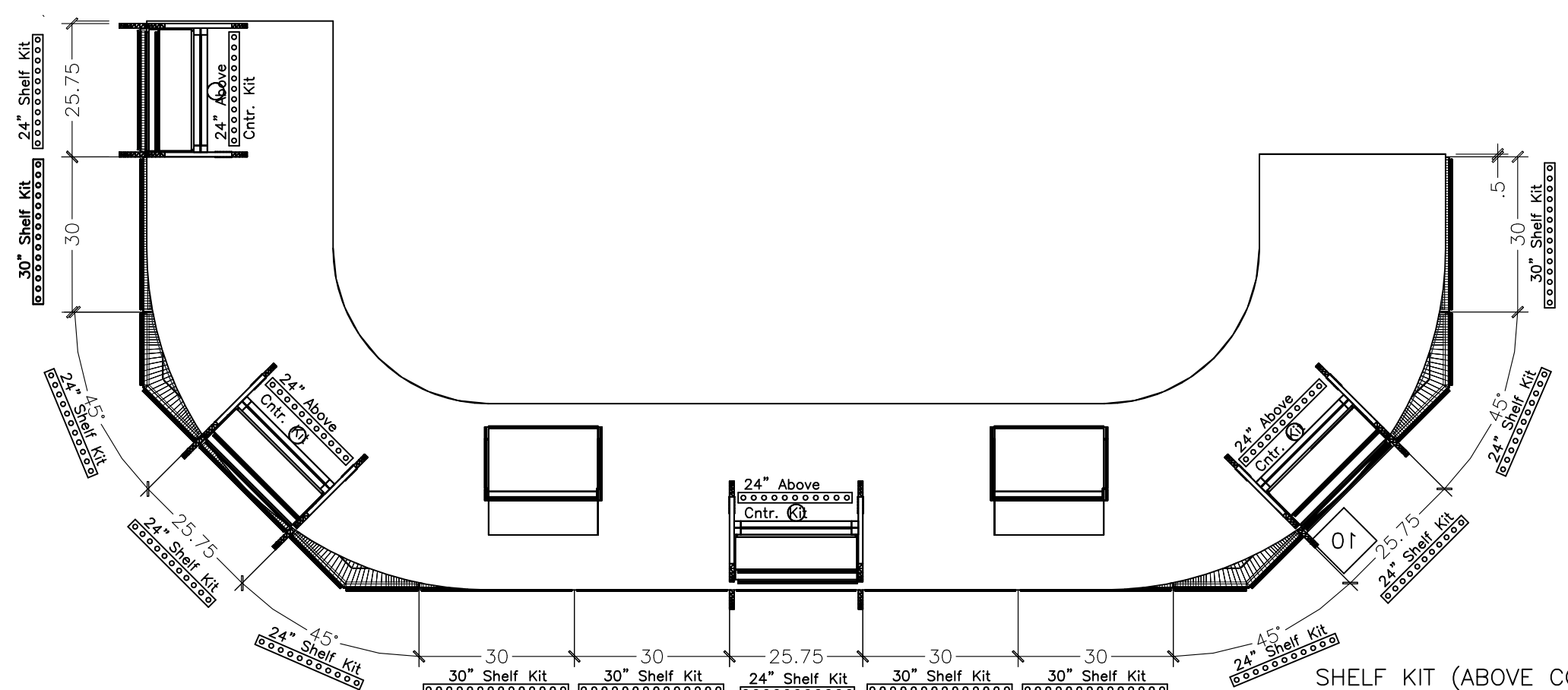
DELI PREP ELEVATION



COLDWELL END

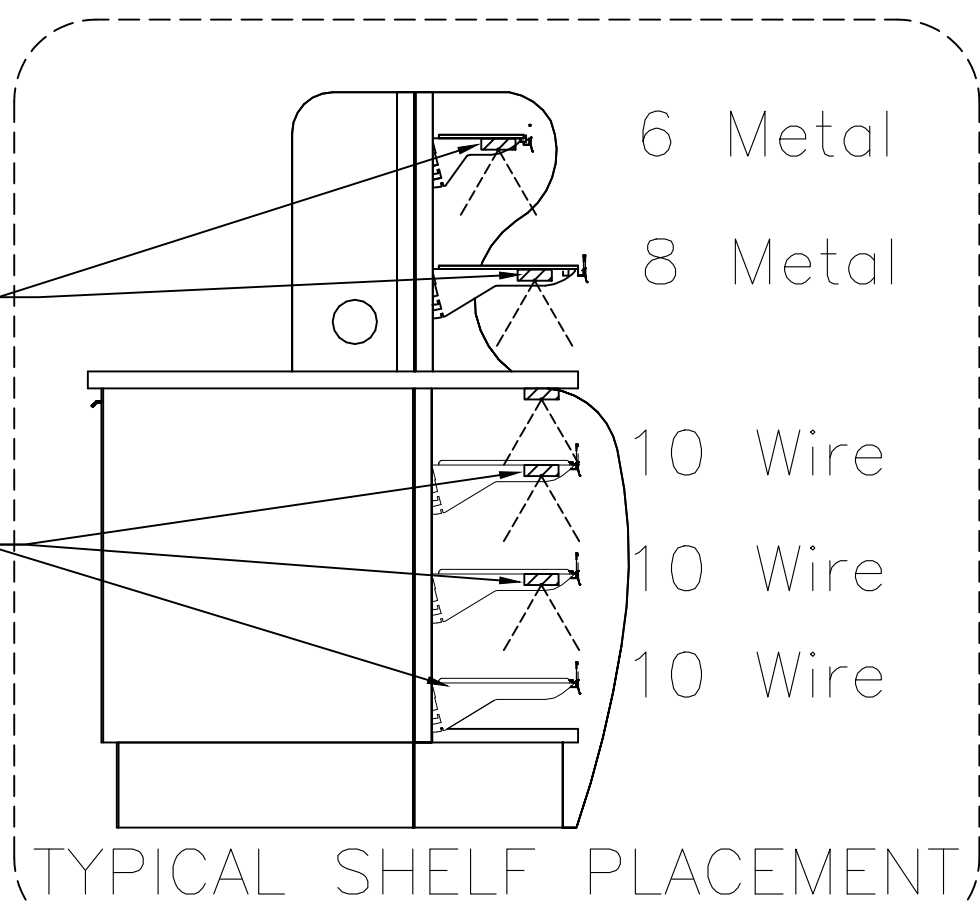
SCALE: 1/2" = 1'-0"

16 version of pic shown (24)



SHELF KIT (ABOVE COUNTER)
HAS
2-SHELF MOUNT

SHELF KIT
HAS
2-SHELF MOUNT
1-UNDER COUNTER MOUNT



- 6 Metal
- 8 Metal
- 10 Wire
- 10 Wire
- 10 Wire

TYPICAL SHELF PLACEMENT

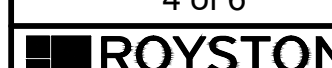
CEFCO CONVENIENCE STORES
F250.1 SD RF (Right Facing) W/special Prototype Deli
STORE # 0446
NWC I-10 & HWY., 331 DEFUNIAK SPRINGS, FL.

Revisions

Drawn By J.P.O.

Date 09/26/2023

Sheet 4 of 6

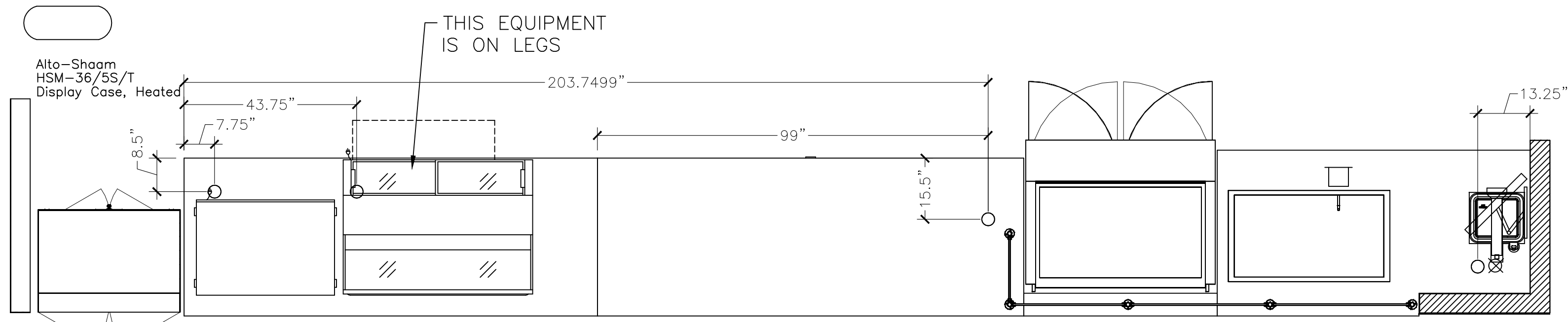


Drawing Number

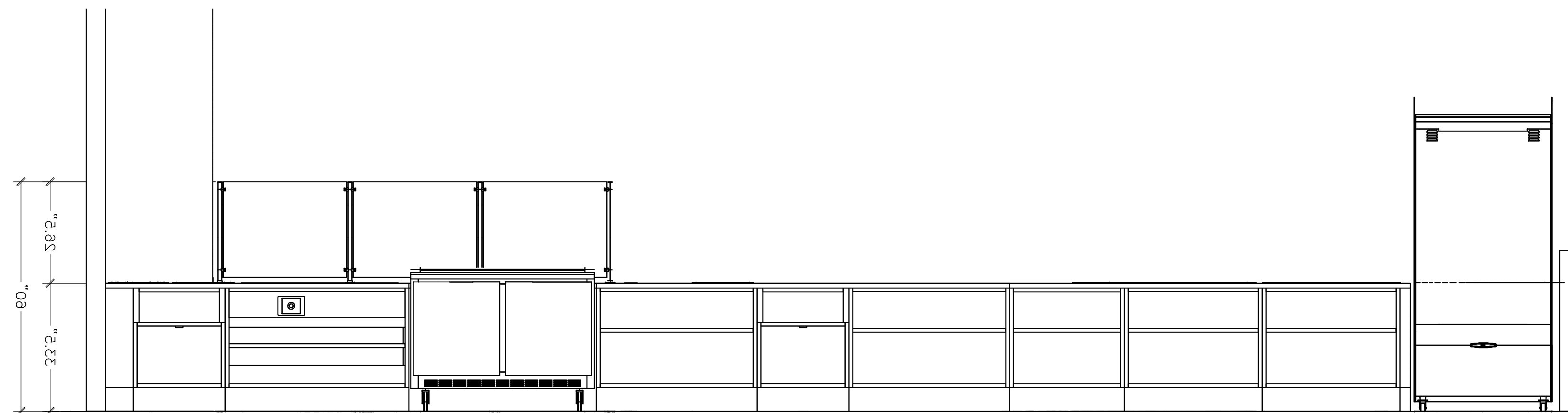
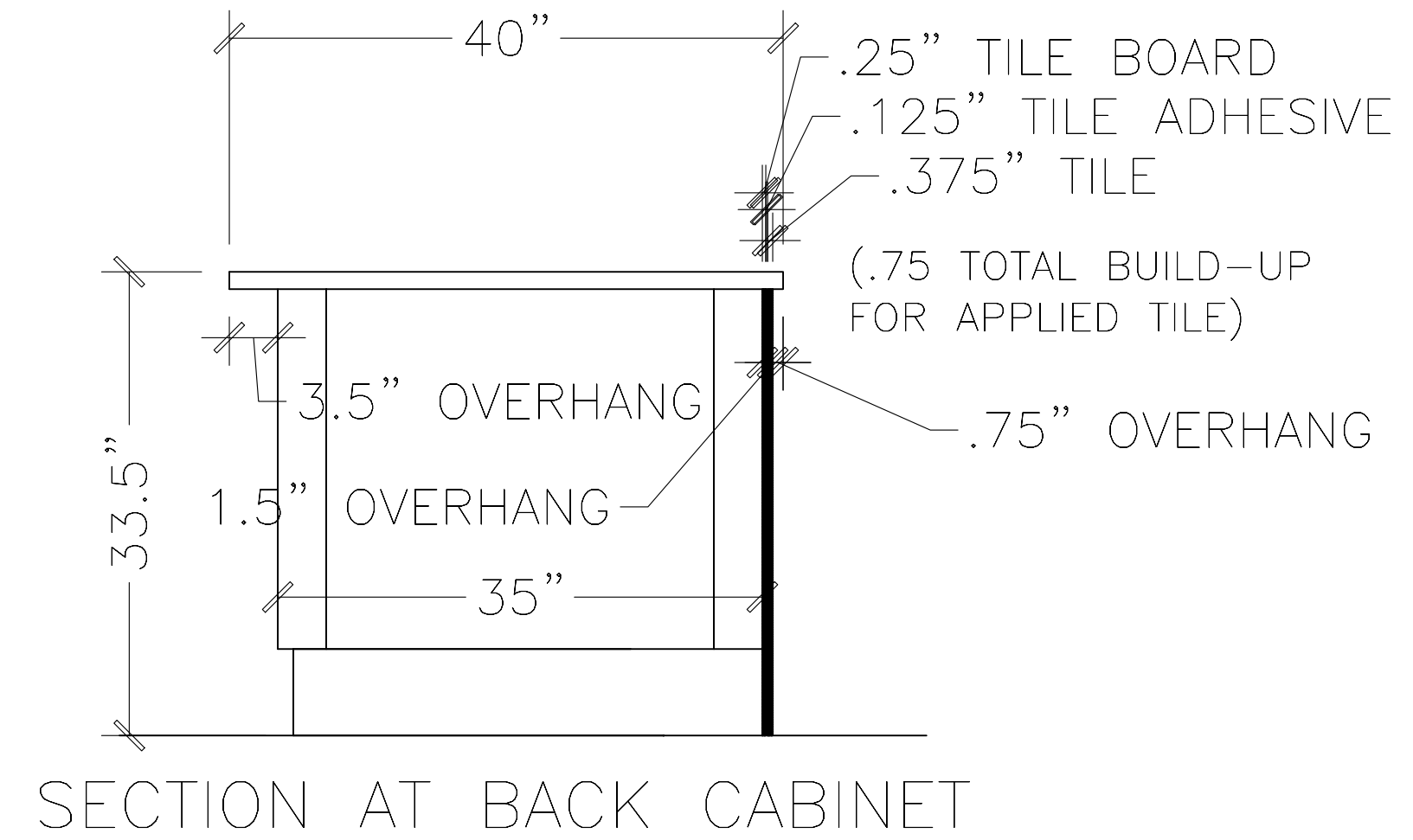
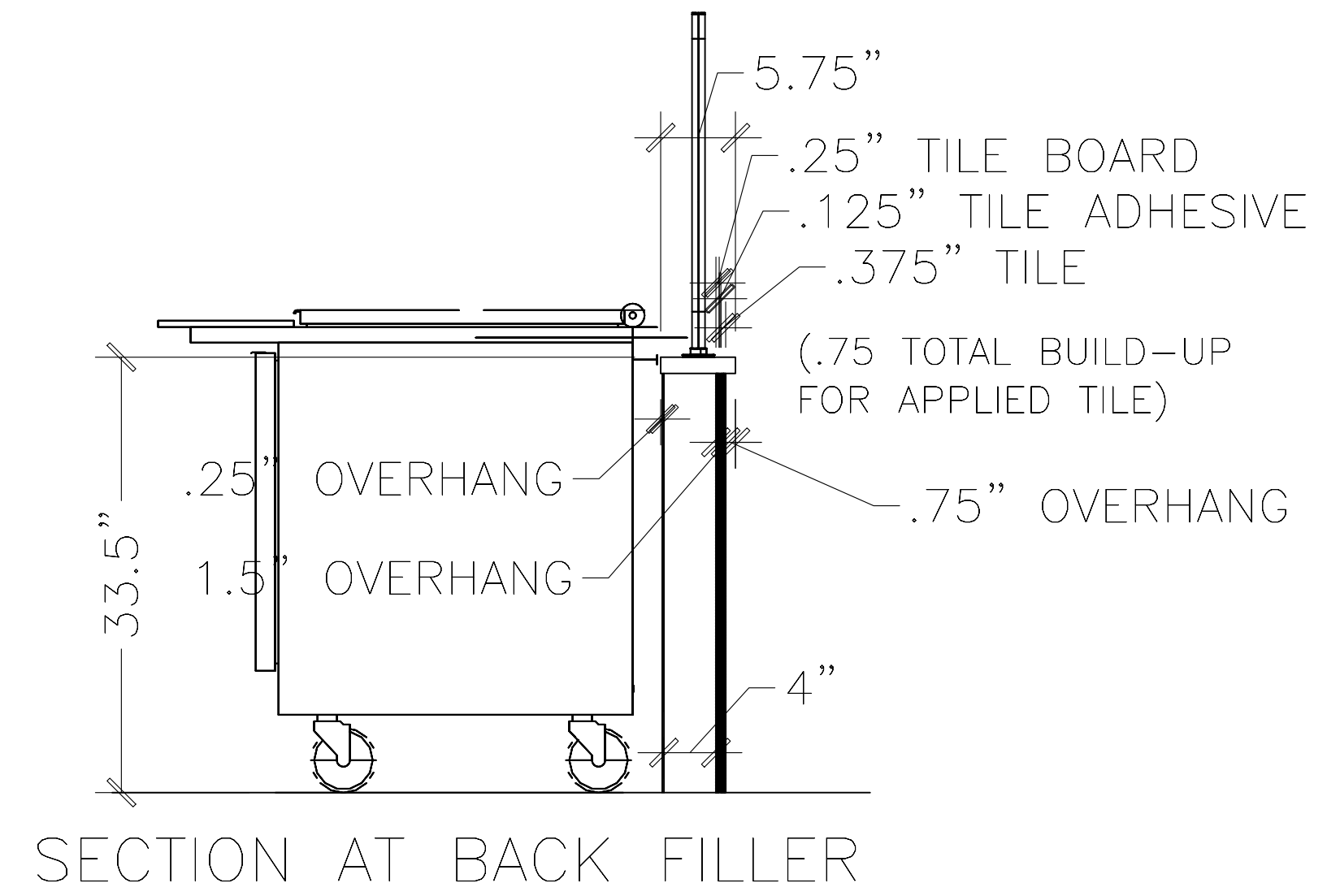
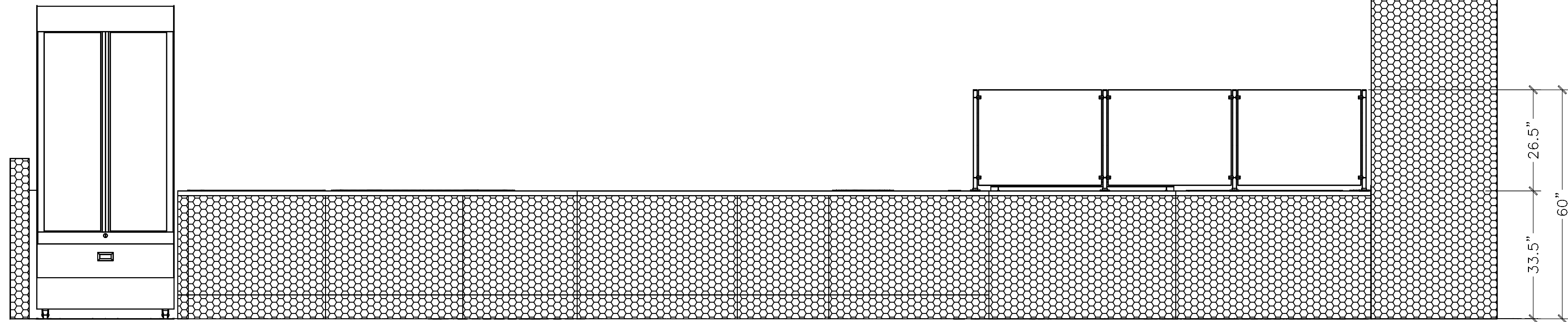
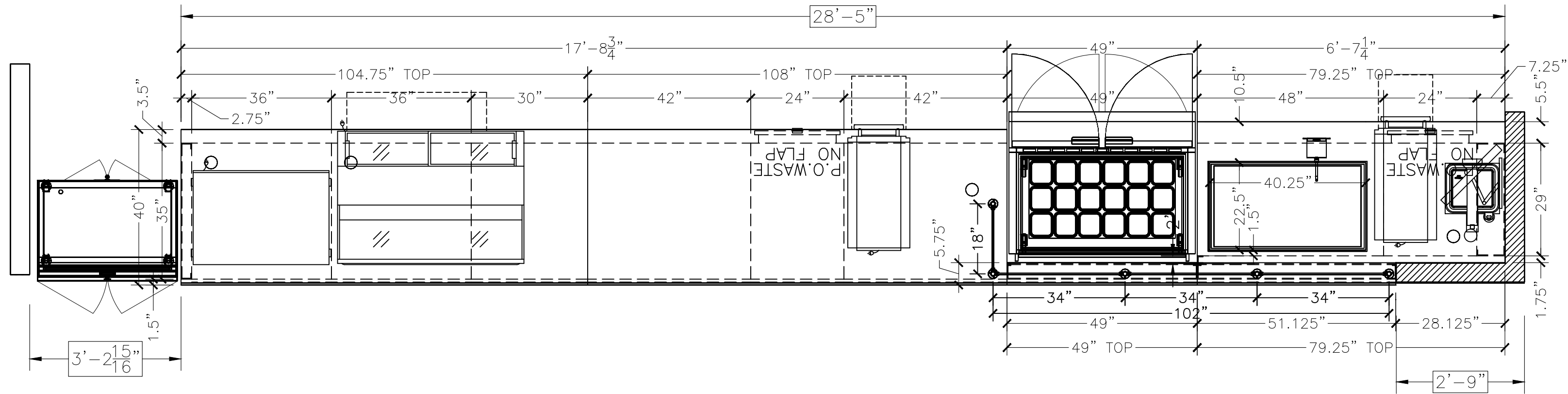
9061421-2

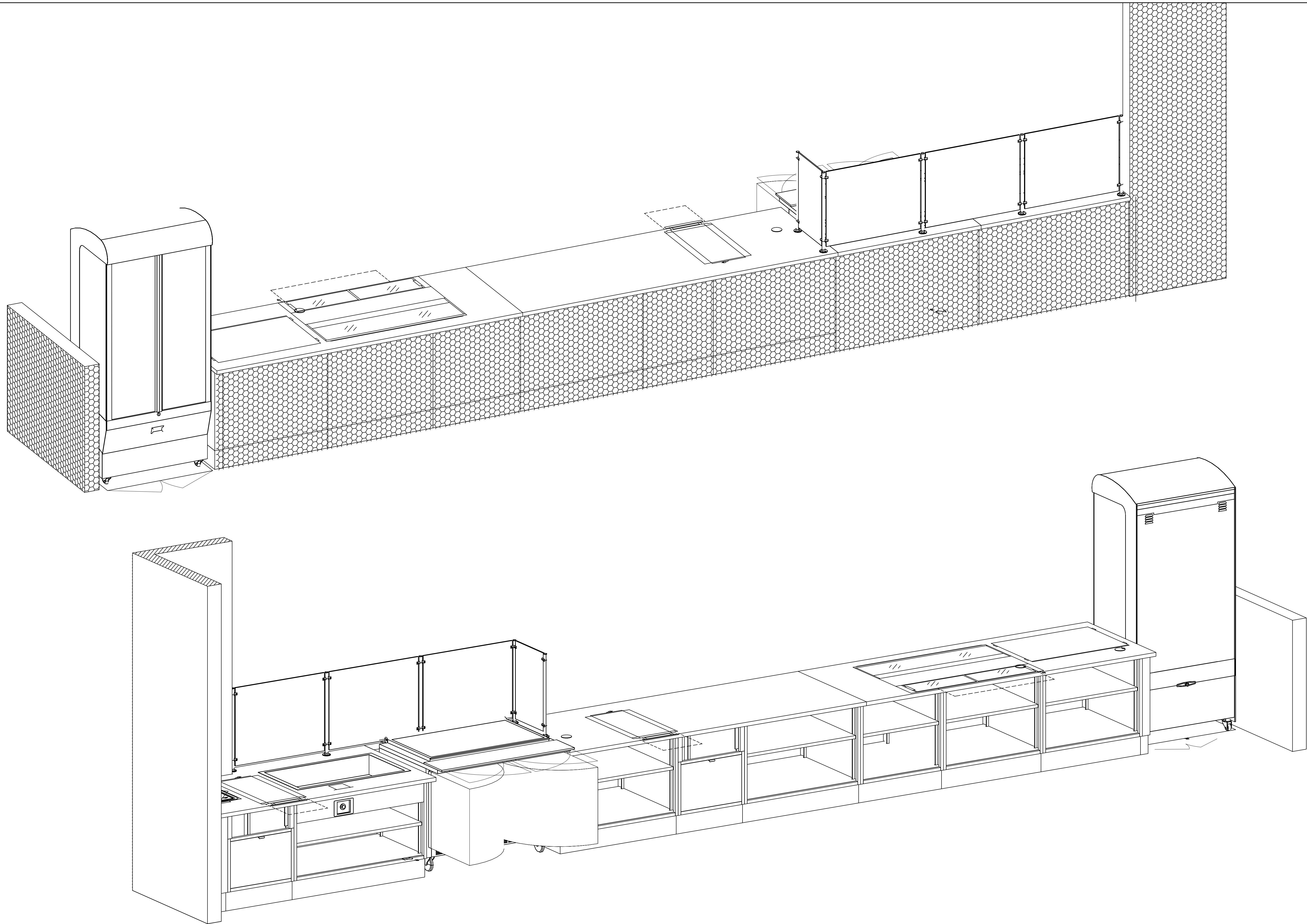
Sheet Number

A4



DIMENSIONS FOR TOP PENETRATIONS (NEW LOCATIONS)

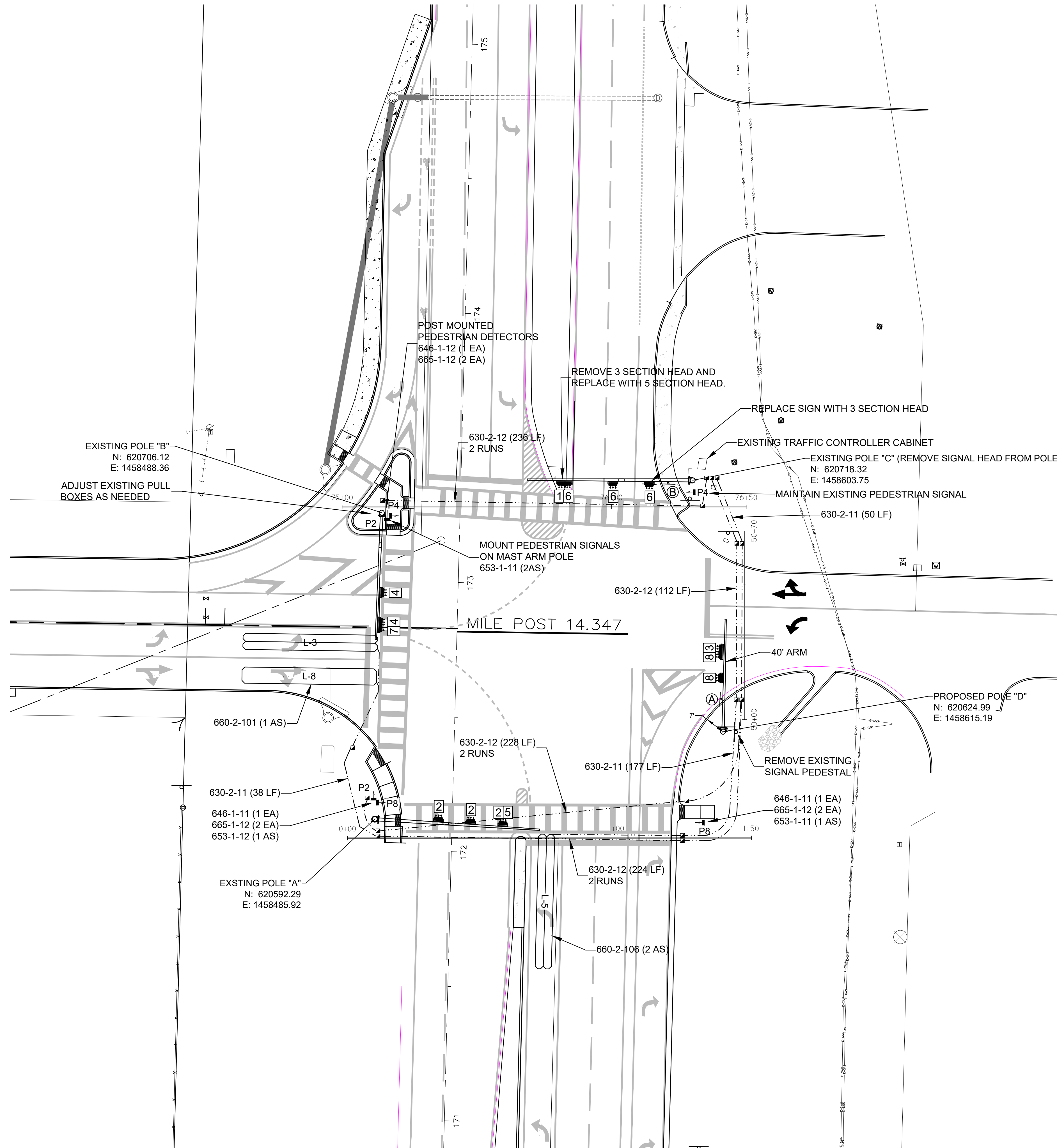




CEFCO CONVENIENCE STORES
 F250.1 SD RF (Right Facing) W/special Prototype Deli
 STORE # 0446
 NWC I-10 & HWY., 331 DEFUNIAK SPRINGS, FL.

Revisions
 Drawn By *J.P.O.*
 Date 09/26/2023
 Sheet 6 of 6
ROYSTON
 Drawing Number 9061421-2
 Sheet Number A6

ROYSTON
gets retail
 ROYSTON LLC ONE PICKROY ROAD JASPER, GA 30143 (770) 735-3456

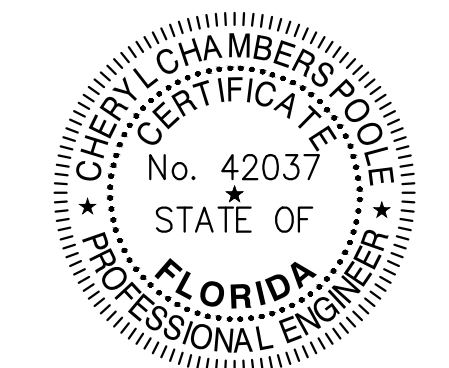


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 2145 DELTA BLVD. • TALLAHASSEE, FL. 32303 • (850)386-5117 • LICENSE NO. 6745
 17320 PANAMA CITY BEACH PARKWAY, STE. 111 • PANAMA CITY BEACH, FL 32413
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REVISED:

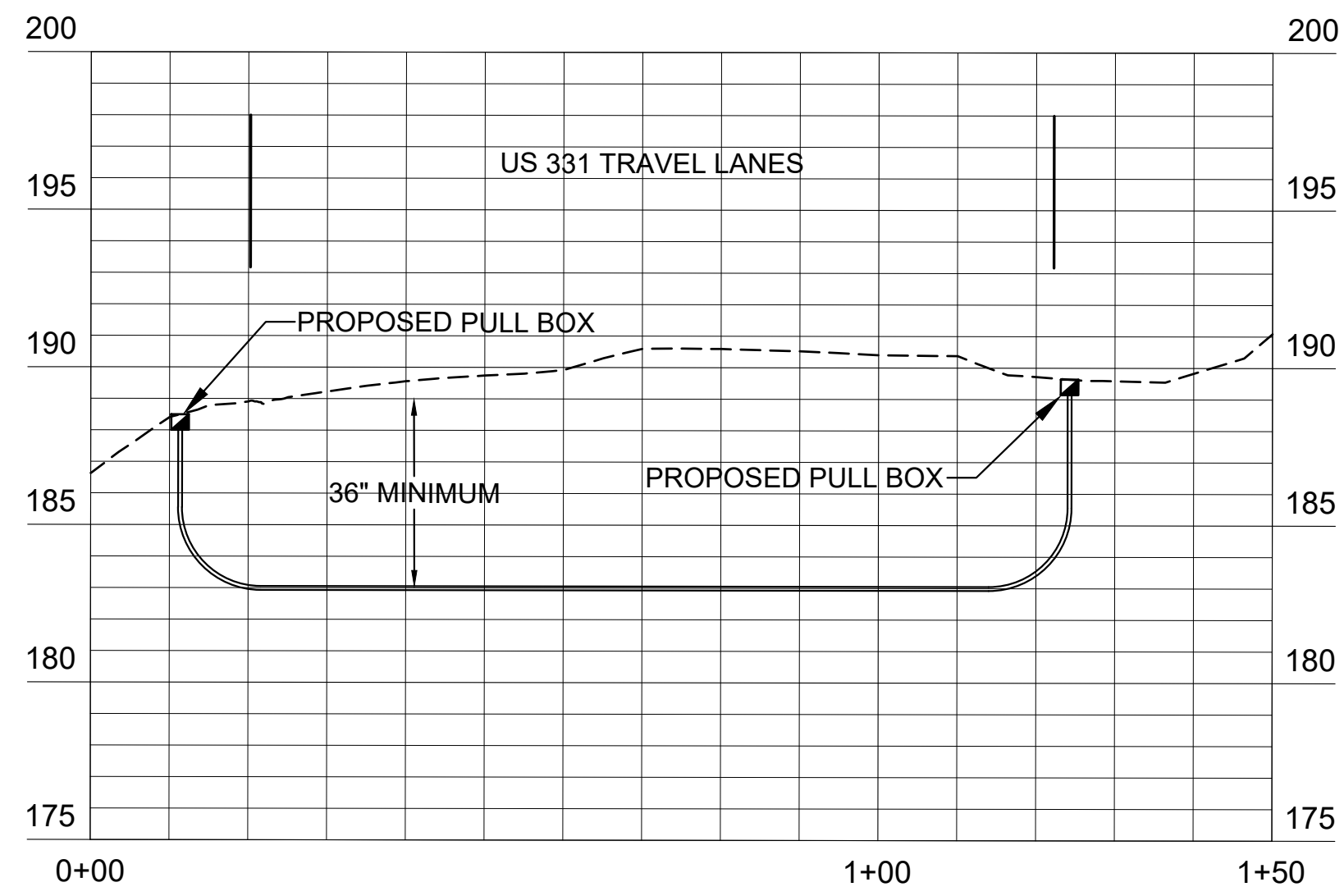
DATE: 10/18/23
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 DRAWN BY: BRP

PROJECT: US 331 at BUSINESS PARK RD
 TITLE: SIGNAL PLAN

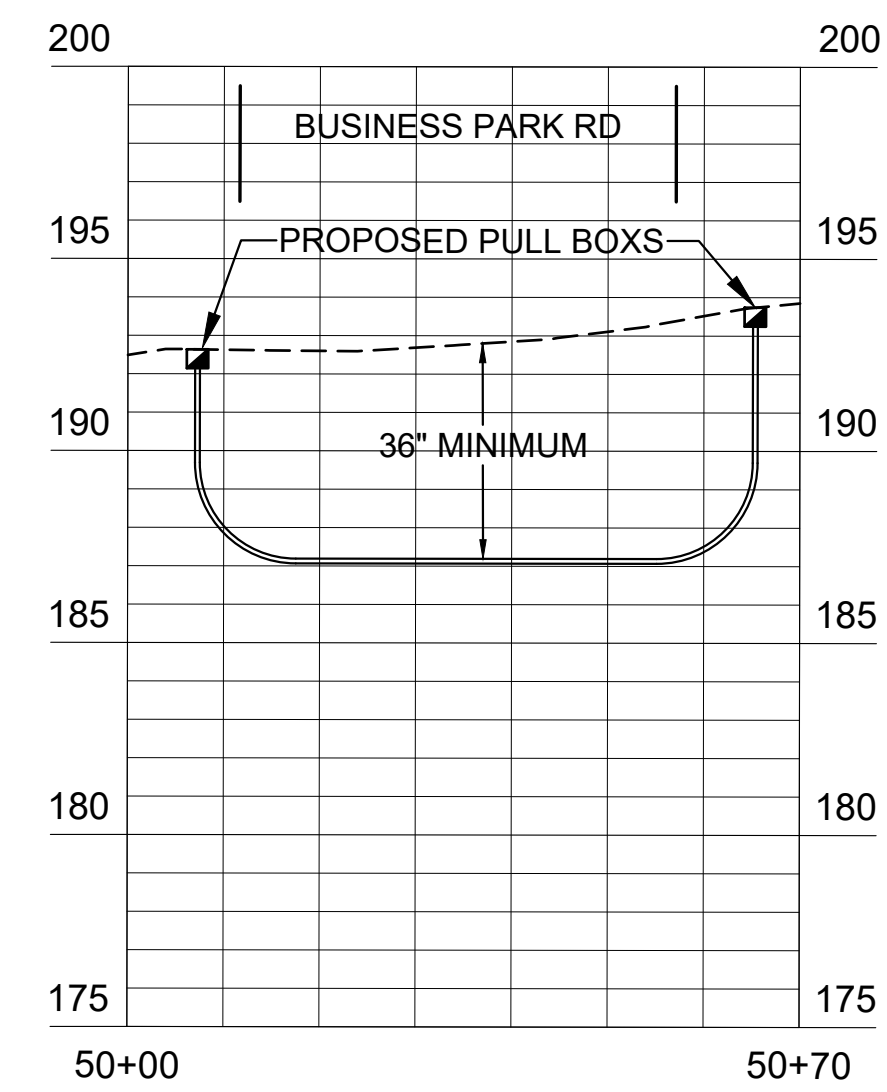


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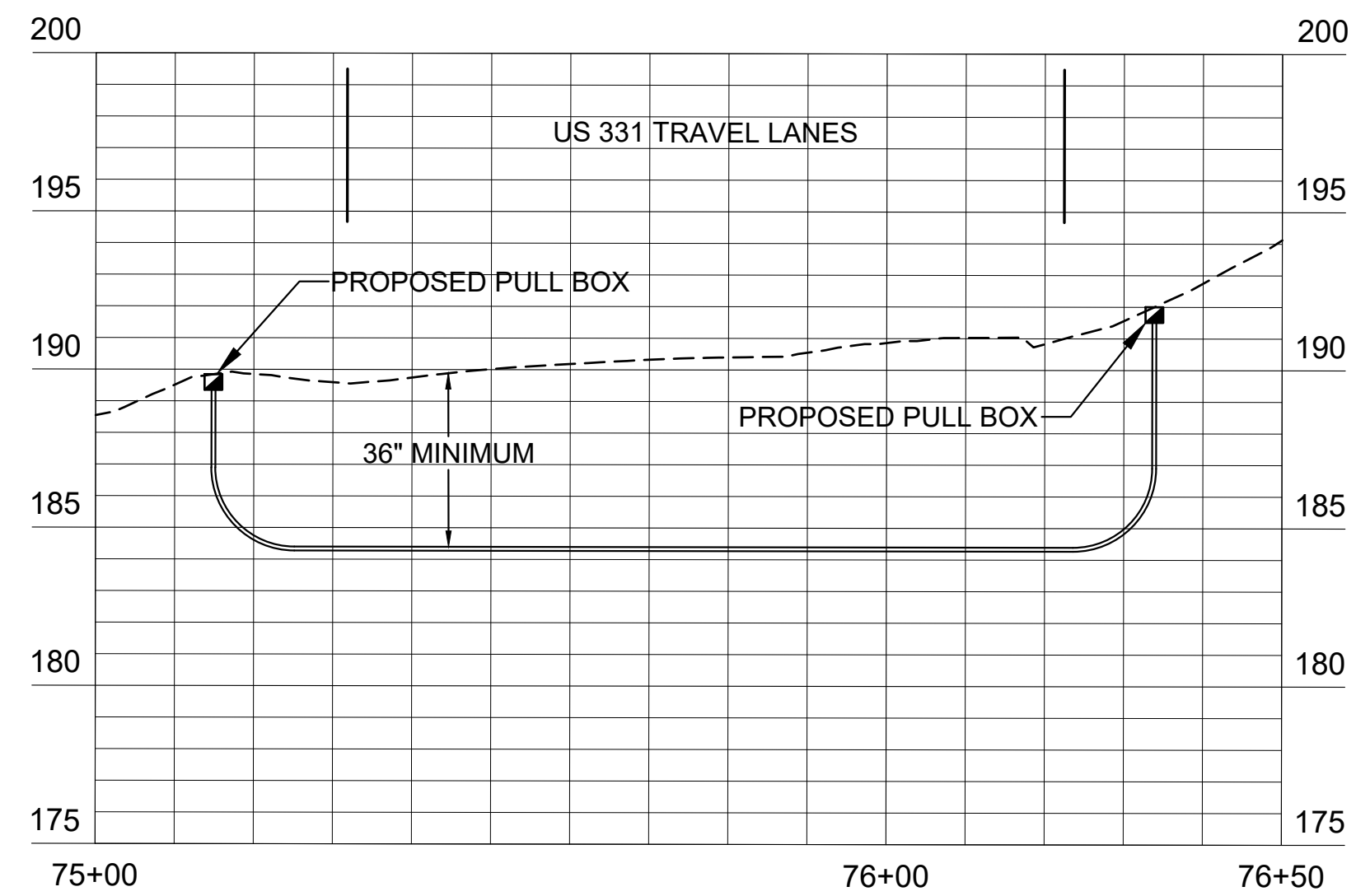
JOB NUMBER: 23423
 SHEET NUMBER: S - 1



1 US 331 SOUTH SIDE OF INTERSECTION
SCALE: VERTICLE: 1" = 5', HORIZONTAL: 1" = 20'



2 BUSINESS PARK ROAD
SCALE: VERTICLE: 1" = 5', HORIZONTAL: 1" = 20'



3 US 331 NORTH SIDE OF INTERSECTION
SCALE: VERTICLE: 1" = 5', HORIZONTAL: 1" = 20'

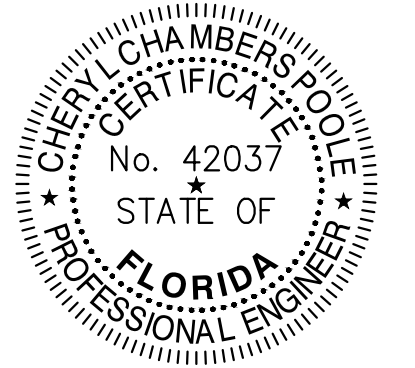
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ENGINEERING & SURVEYING, Inc.
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REVISED:	
----------	--

DATE:	10/17/23
SCALE:	AS NOTED
DRAWN BY:	BRP

PROJECT:
US 331 at BUSINESS PARK RD

TITLE:
CROSS SECTIONS



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JOB NUMBER:	23423
SHEET NUMBER:	S - 2

CONCRETE NOTES (CONT'D)

- TERMINATE ALL VERTICAL REINFORCING AT THE TOP AND BOTTOM WITH 10" ACI HOOKS.
- SOILS SHALL BE TREATED.

LIGHT GAUGE STEEL

- STRUCTURAL LIGHT GAUGE STEEL SHALL CONFORM TO ASTM A1003/A1003M WITH MIN. FY = 33 KSI
- BUYOUT LIGHT GAUGE STEEL SHAPES SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS AS CALLED OUT IN THE DESIGN CALCULATIONS/DRAWINGS.
- DESIGN OF LIGHT GAUGE STRUCTURAL STEEL SHALL BE DONE IN ACCORDANCE WITH THE ANSI COLD FORMED STEEL DESIGN MANUAL.

DESIGN PARAMETERS FOR WIND LOAD COMPLIANCE

- RISK CATEGORY II
- FLORIDA BUILDING CODE SEVENTH EDITION (2020) AND ASCE 7-16
- BUILDING DESIGN IS ENCLOSED
- MEAN ROOF HEIGHT IS 15'-0"
- ROOF PITCH 1/4":12" DEGREES
- INTERNAL PRESSURE COEFFICIENT ± 0.18
- WIDTH OF END ZONE A = 5'-3"
- WIND SPEED (VULT) 115 MPH 3-SECOND GUST (VASD) 90 MPH 3-SECOND GUST
- WIND EXPOSURE CLASSIFICATION: B
- ADJUSTMENT FACTOR FOR EXPOSURE AND HEIGHT = 1.00

WIND COMPONENTS AND CLADDING PRESSURES (PSF)						
EFF. AREA (SQ.FT.)	ROOF				WALL	
	ZONE 1'	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
< 10	+16.00/-21.80	+16.00/-37.90	+16.00/-50.00	+16.00/-68.10	+23.80/-25.80	+23.80/-31.90
20	+16.00/-21.80	+16.00/-35.40	+16.00/-46.80	+16.00/-61.70	+22.70/-24.70	+22.70/-29.70
50	+16.00/-21.80	+16.00/-32.10	+16.00/-42.50	+16.00/-53.20	+21.30/-23.30	+20.20/-24.70
100	+16.00/-21.80	+16.00/-29.60	+16.00/-39.30	+16.00/-46.80	+17.70/-19.80	+17.70/-19.80

ALL THESE WIND PRESSURES ARE MULTIPLIED WITH ADJUSTMENT FACTOR FOR BUILDING AND HEIGHT AND REDUCED PRESSURES PER FBC /IBC WITH MULTIPLYING FACTOR: 0.6

THE DESIGN WIND PRESSURE FOR C&C OF BUILDINGS SHALL NOT BE LESS THAN A NET PRESSURE OF 16 LBS/SQ. FT. ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.

- LOADS:
ROOF / DEAD : 25 PSF
ROOF / LIVE : 30 PSF

DESIGN PARAMETERS FOR SEISMIC LOAD COMPLIANCE

- IMPORTANCE FACTOR = 1.0
- OCCUPANCY RISK CAT. II
- SPECTRAL RESPONSE ACCELERATIONS
S_s = 0.077
S_i = 0.021
- SITE CLASS D
SPECTRAL RESPONSE COEF.
S_{ds} = 0.051
S_{d1} = 0.034
- SEISMIC DESIGN CAT. A
- SEISMIC FORCE RESISTING SYSTEM
STEEL ORDINARY CONCENTRICALLY
- BRACE FRAMES R=3.25
- ANALYSIS PROCEDURE
EQUIVALENT LATERAL FORCE
- SEISMIC BASE SHEAR 3.8% OF W

LATERAL FORCE-RESISTING SYSTEMS SHALL MEET SEISMIC DETAILING REQUIREMENTS AND LIMITATIONS PRESCRIBED IN ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A, EVEN WHEN WIND LOAD EFFECTS ARE GREATER THAN SEISMIC LOAD EFFECTS. ALL STRUCTURAL FRAMING SHALL MEET ULTIMATE WIND SPEED REQUIREMENTS AS SET FORTH IN CHAPTER 16, IBC 2015

SOIL:

GEOTECHNICAL REPORT:
NOVA JOB NO.: 10116-2022203
PROVIDED BY NOVA ENGINEERING & ENVIRONMENTAL LLC.
DATE: 11/07/2022. SUGGESTED TO USE 2FT. SOIL FILL W/ LOW PLASTICITY SELECT FILL. PROOF ROLLED & PROPERLY COMPACTED BEFORE ANY FOUNDATIONS POURED. SEE GEOTECHNICAL REPORT & CIVIL FOR MORE INFORMATION.

STRUCTURAL DRAWING LIST

S1.0	STRUCTURAL GENERAL NOTES
S1.1	STUCTURAL GENERAL NOTES
S2.0	FOUNDATION PLAN
S3.0	ROOF FRAMING PLAN
S4.0	BUILDING ELEVATIONS
S5.0	BUILDING ELEVATIONS
SD1.0	FOUNDATION DETAILS
SD1.1	TRASH ENCLOSURE FLOOR PLAN AND DETAILS
SD1.2	TRASH ENCLOSURE EXTERIOR ELEVATIONS
SD1.3	TRASH ENCLOSURE SECTION AND DETAILS
SD1.4	GENERATOR ENCLOSURE FLOOR PLAN AND DETAILS
SD1.5	GENERATOR ENCLOSURE EXTERIOR ELEVATIONS
SD1.6	GENERATOR ENCLOSURE SECTION AND DETAILS
SD2.0	STEEL FRAMING DETAILS
SD3.0	STEEL FRAMING DETAILS
SD4.0	ROOF FRAMING DETAILS
SD4.1	ROOF FRAMING DETAILS
SD5.0	LIGHT GAUGE DETAILS
SD6.0	MISCELLANEOUS DETAILS

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
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INFINITY ENGINEERING GROUP, LLC

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Suite 230
Tampa, Florida 33602
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www.iggroup.net
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NISIT SAPPARKHAO, P.E.
FL REG. NO. 64085

Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

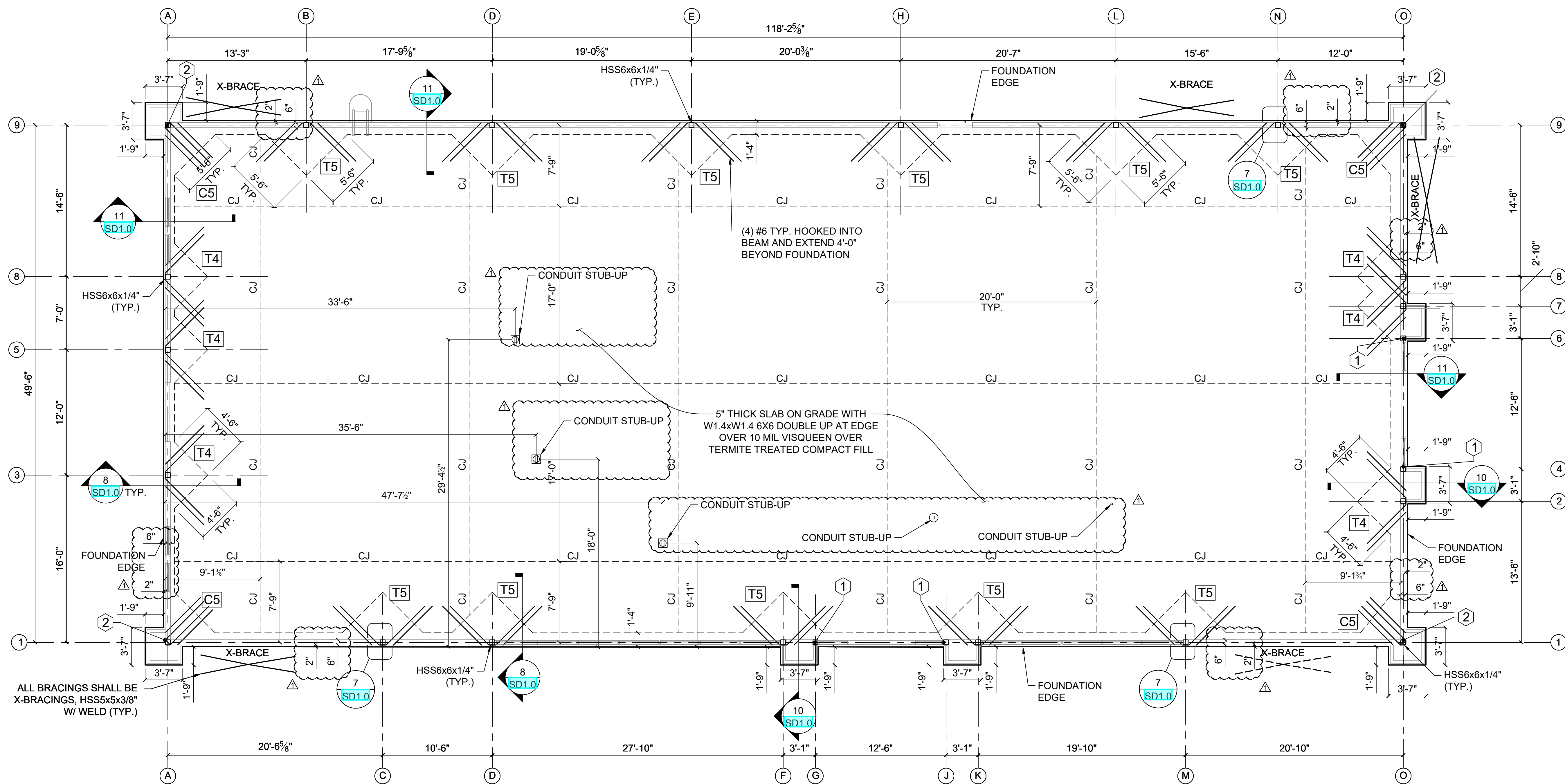
Sheet Title
STRUCTURAL GENERAL NOTES

Project No.
170-95.00

Drawn By:

Checked By:

Sheet
S1.1



ALL BRACINGS SHALL BE X-BRACINGS, HSS5x5x3/8" W/ WELD (TYP.)

- FOUNDATION NOTES:**
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EMBEDMENT, PLUMBING, FIXTURES, AND DRAINS.
 - REFERENCE ARCHITECTURAL PLANS FOR ALL DIMENSIONS AND VERIFY.
 - SEE SHEET **S1.0** & **S1.1** FOR ALL MATERIAL SPECIFICATIONS.
 - FOOTING SIZES REFERENCED IN THE PLAN:
 - C5: 5'-6" W x 5'-6" L x 2'-0" D CEE FOOTING
 - T4: 4'-6" W x 4'-6" L x 2'-0" D TEE FOOTING
 - T5: 5'-6" W x 5'-6" L x 2'-0" D TEE FOOTING
 - T6: 6'-0" W x 6'-0" L x 2'-0" D SPREAD FOOTING
 - PROVIDE 1/2" DENSGLOSS OVER METAL STUD FRAMING. FASTEN PER MANUFACTURERS INSTRUCTIONS.
 - ALL COLUMNS ARE HSS6x6x1/4", U.N.O., INCLUDING BRACING COLUMNS.
 - ALL COLUMNS SHALL EXTEND TO TOP OF PARAPET, U.N.O.

- KEYNOTE:**
- 1 TOP OF COLUMN TO BE AT B.O. STOREFRONT BEAM
 - 2 SEE DETAIL 1/SD1.0 FOR BASE PLATE & ANCHOR BOLTS. (TYP.)

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/31/2023

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 FL REG. NO. 64085

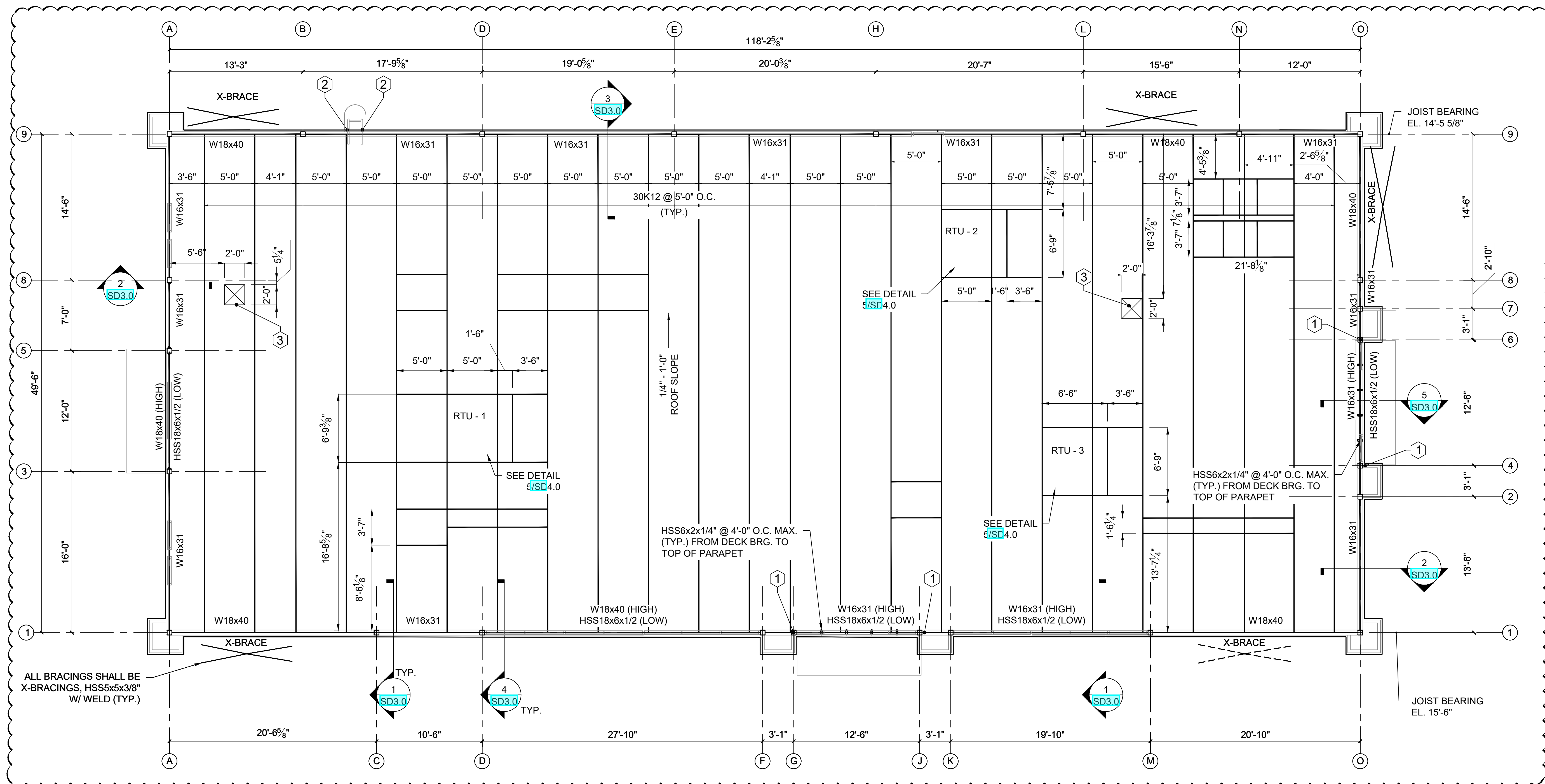
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
FOUNDATION PLAN

Project No.
 170-95.00

Sheet
S2.0

Checked By:



ROOF FRAMING NOTES:

1. THE ROOF STRUCTURE SHALL NOT BE USED FOR STOCKPILING OF EQUIPMENT OR MATERIALS UNLESS APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE JOIST MANUFACTURER.
2. THE ROOFING SYSTEM SHALL BE AS PER DRAWINGS AND PER CONSTRUCTION SPECIFICATIONS.
3. COORDINATE ROOF ELEVATIONS WITH ARCH. AND STRUCTURAL DRAWINGS.
4. ROOF TOP UNITS: GENERAL CONTRACTOR TO INSTALL FLASHING AND COUNTER-FLASHING TO ROOFING MANUFACTURER SPECIFICATIONS.
5. ALL COLUMNS SHALL BE HSS6x6x1/4", U.N.O.
6. ALL COLUMNS SHALL EXTEND TO TOP OF PARAPET (19'-0" TYP.) U.N.O.
7. SEE S1.0 & S1.1 FOR ADDITIONAL NOTES.
8. CEFCO TOWER INFILL FRAMING AND METAL STUD WALL FRAMING BY OTHERS.
9. ALL PARAPET BEAMS TO BE HSS6X2X3/16, U.N.O. REFER TO ELEVATIONS FOR MORE INFORMATION.
10. THE JOIST MANUFACTURER SHALL DESIGN THE JOISTS FOR ADDITIONAL RTU LOADS AS MENTIONED BELOW:
 RTU - 1 1400LBS
 RTU - 2 2000LBS
 RTU - 3 2000LBS

KEYNOTE:

- ① TOP OF COLUMN TO BE B.O. STOREFRONT BEAM
- ② G.C. TO PROVIDE DOUBLE STUDS AT LADDER VERTICAL CONNECTION (TYP.). TO BE DESIGNED BY OTHERS
- ③ REFER TO DETAIL 2/SD4.1 FOR MECHANICAL EQUIPMENT OPENING

▶ DENOTES MOMENT CONNECTION

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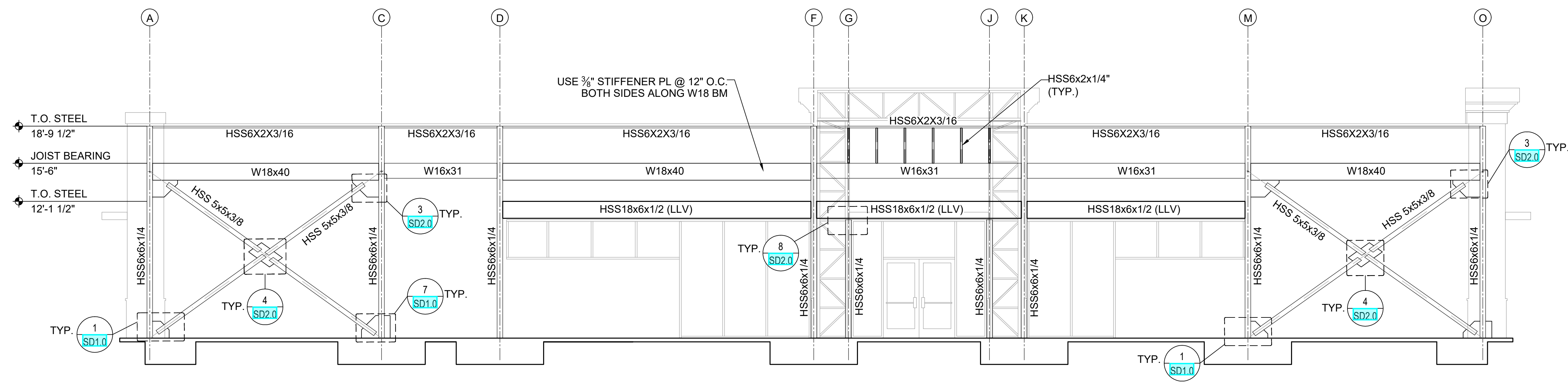
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 NWC I-10 AND HWY 331
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Sheet Title
ROOF FRAMING PLAN

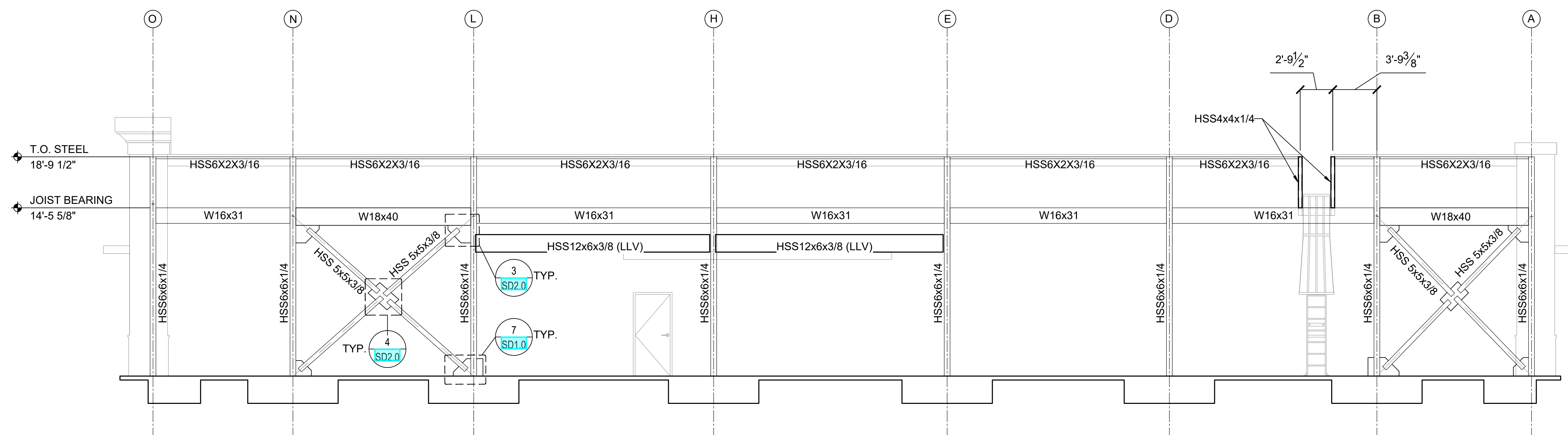
Project No. 170-95.00	Sheet S3.0
Drawn By:	Checked By:



BUILDING ELEVATION AT GRID 1

SCALE
3/16"=1'-0"

2



BUILDING ELEVATION AT GRID 9

SCALE
3/16"=1'-0"

1

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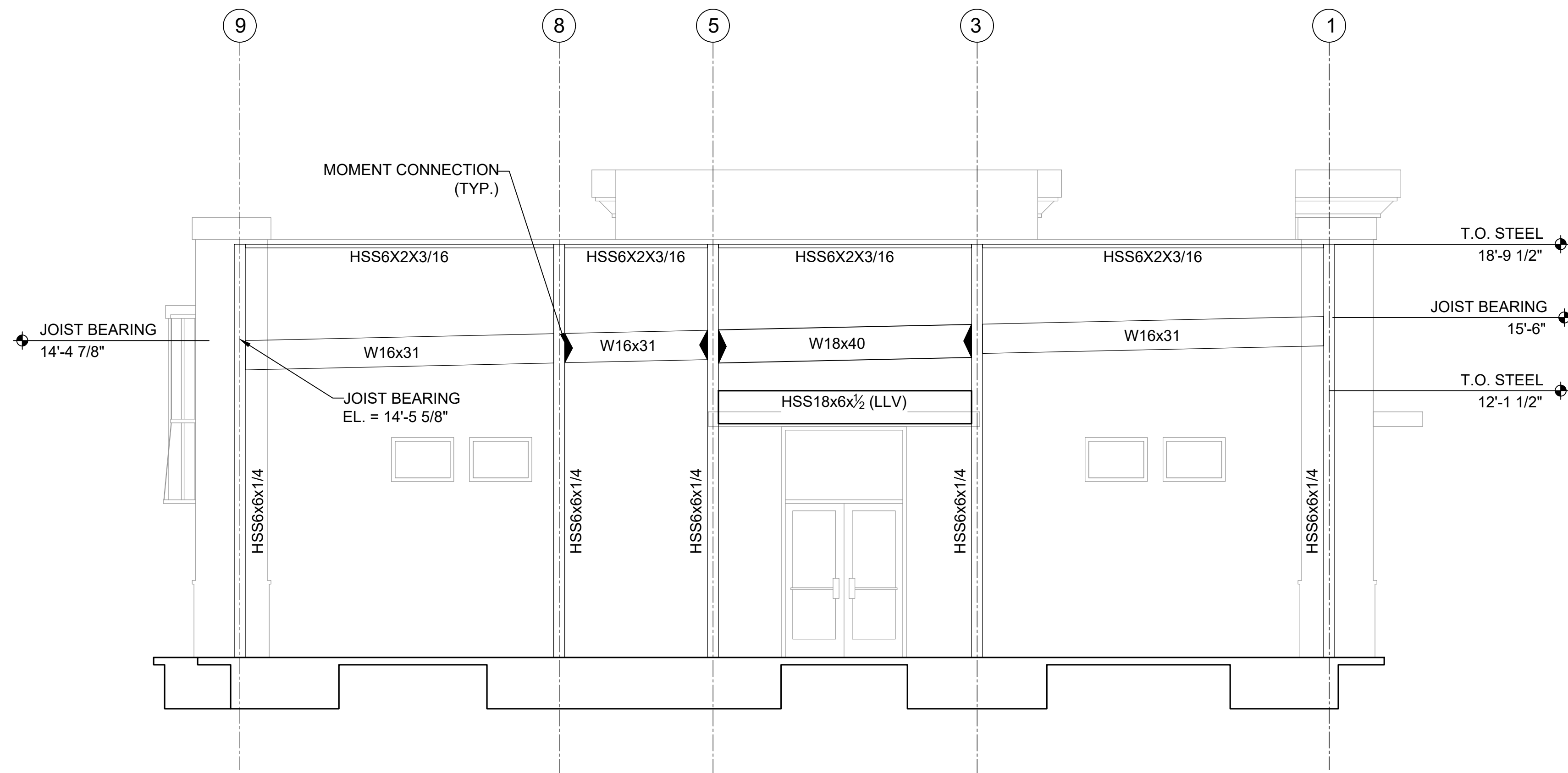
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BUILDING ELEVATIONS

Project No.
170-95.00

Drawn By:

Checked By:

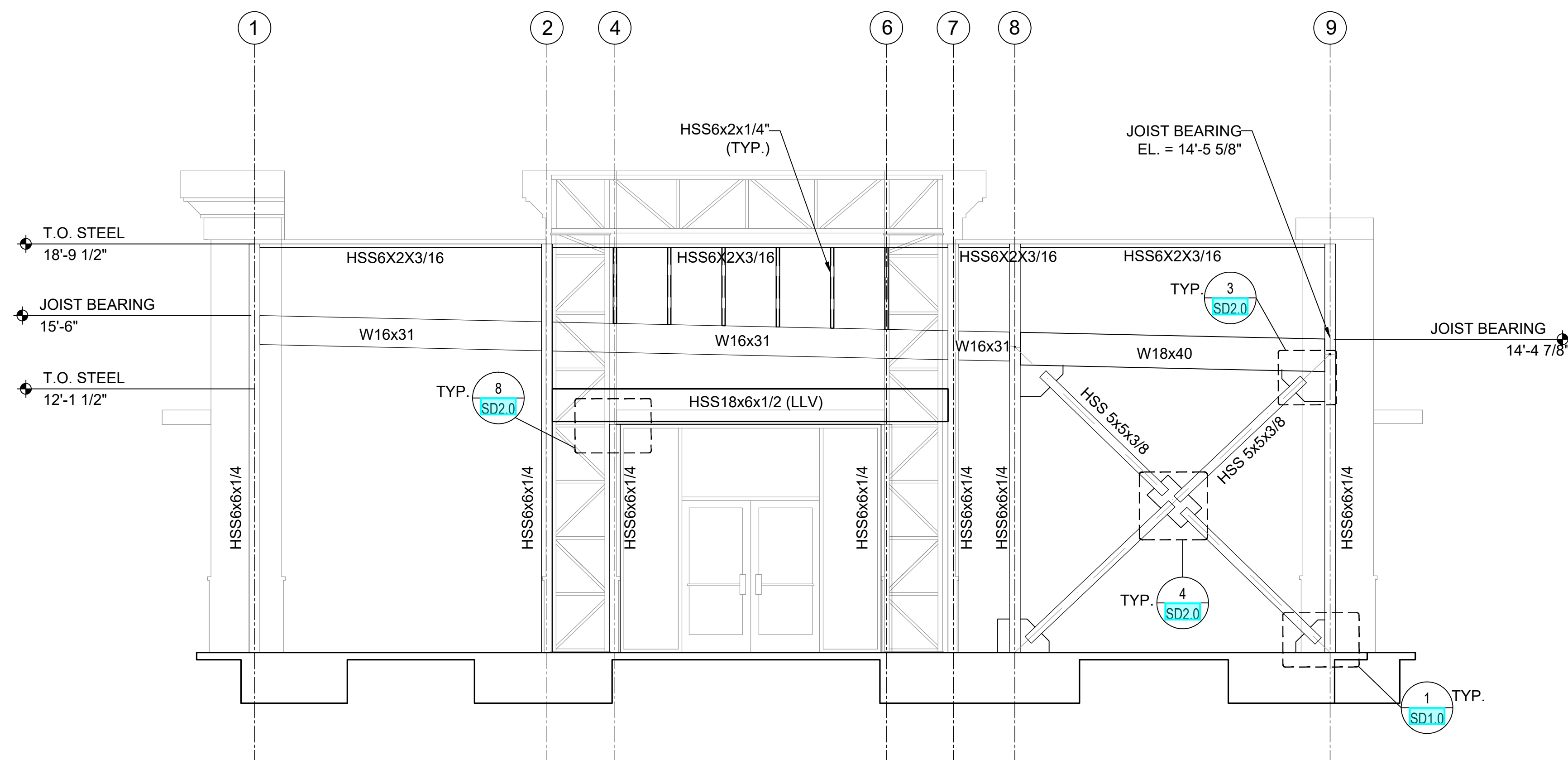
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S4.0



BUILDING ELEVATION AT GRID A

SCALE
1/4"=1'-0"

2



BUILDING ELEVATION AT GRID O

SCALE
1/4"=1'-0"

1

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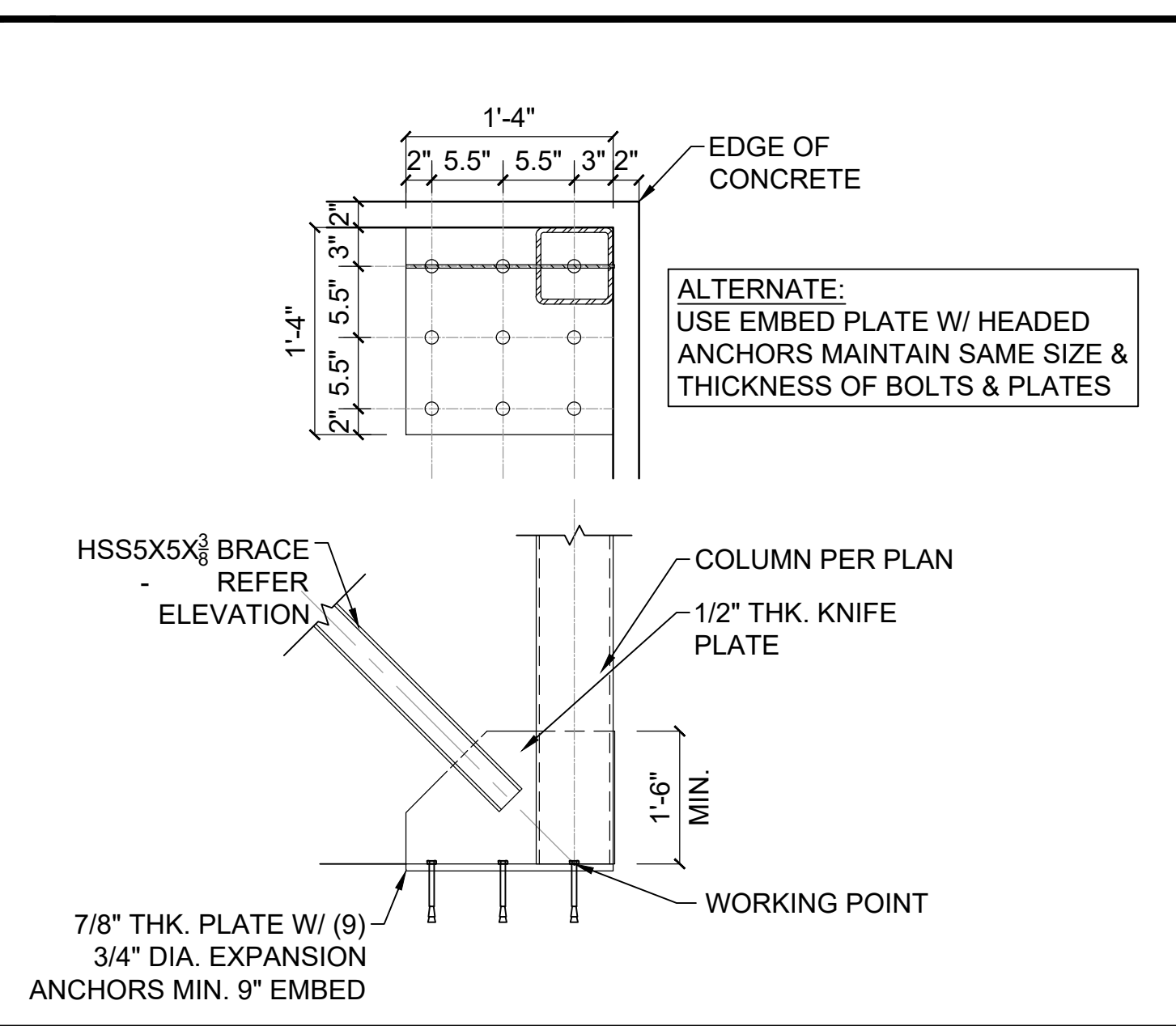
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BUILDING ELEVATIONS

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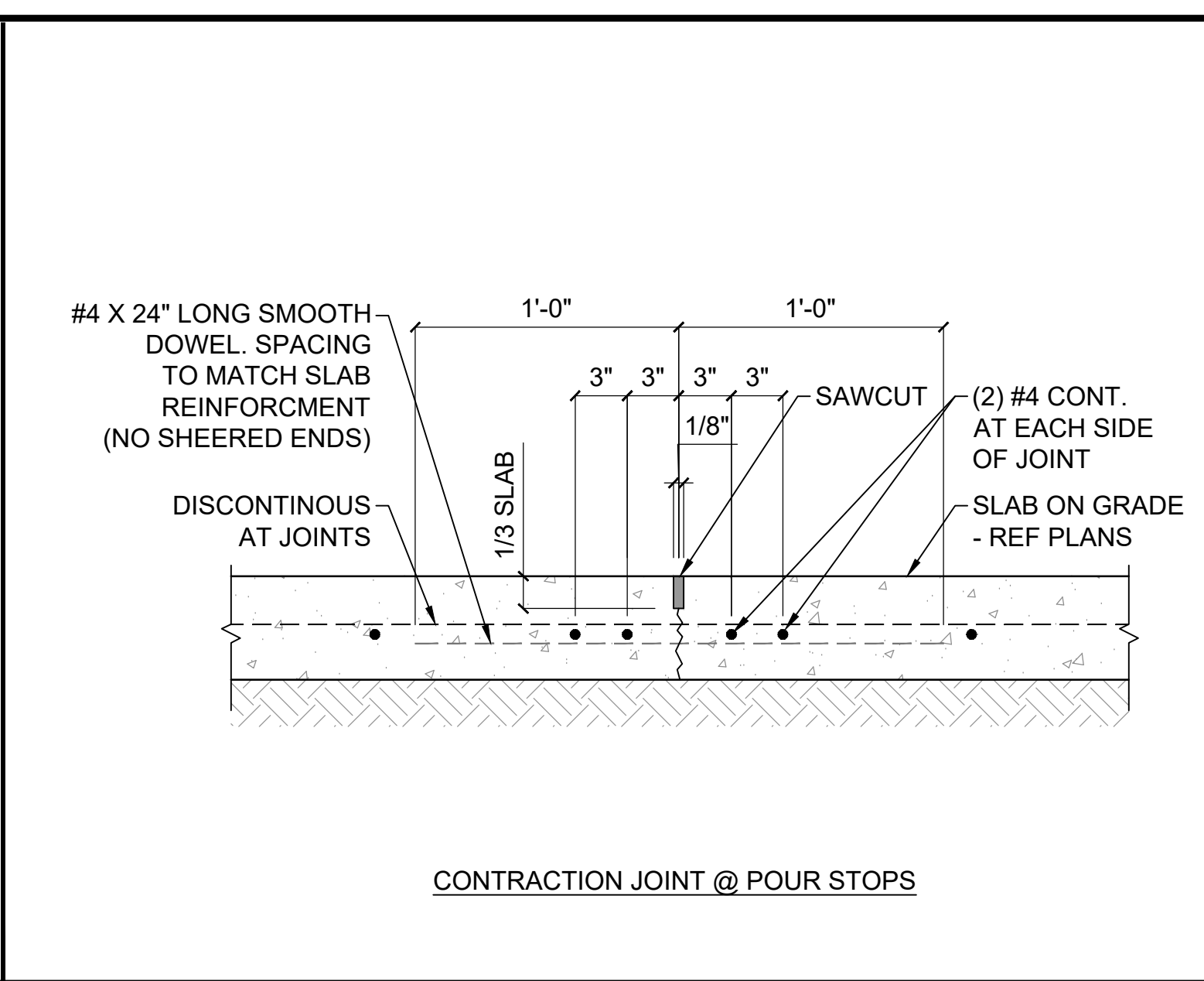
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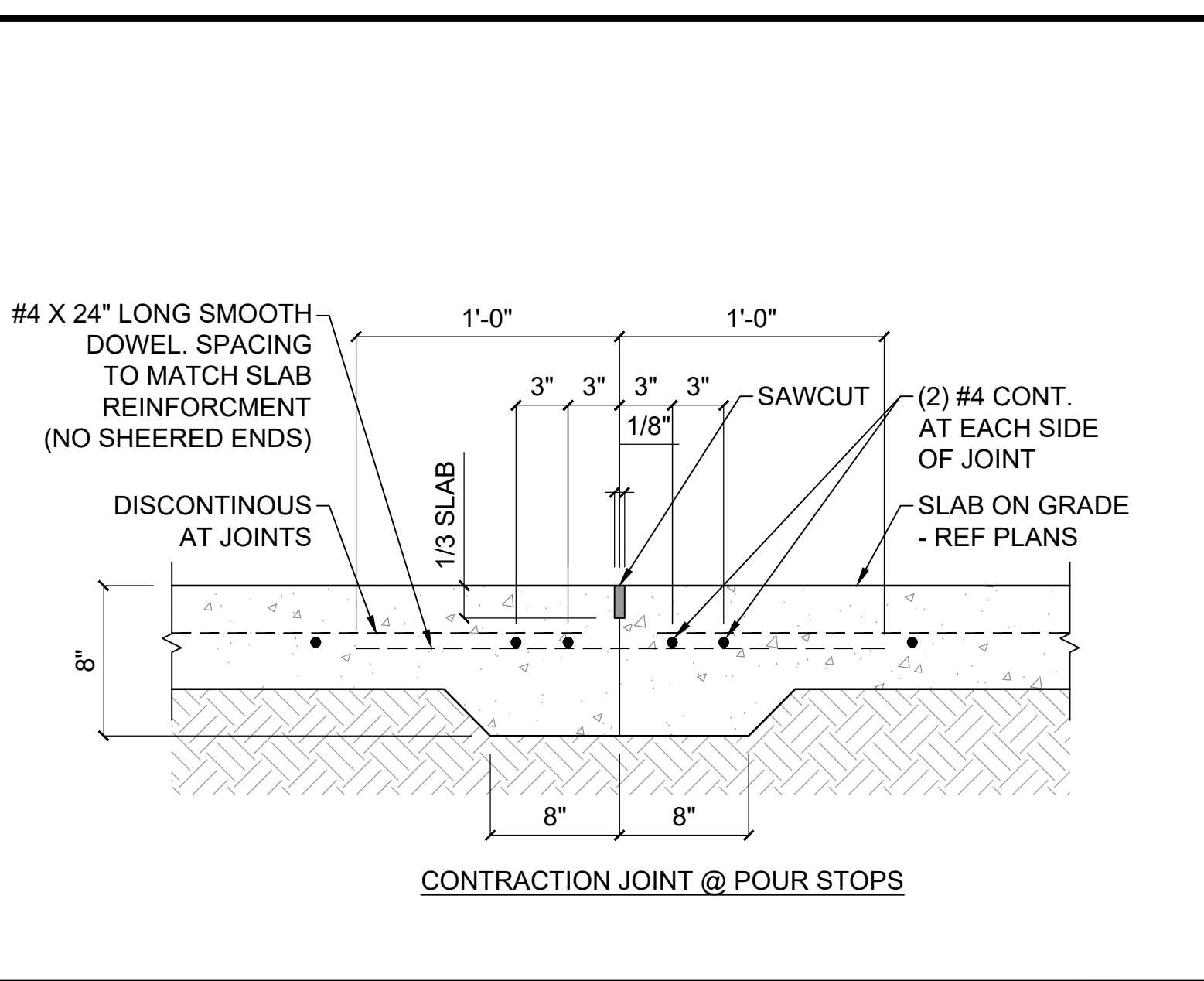
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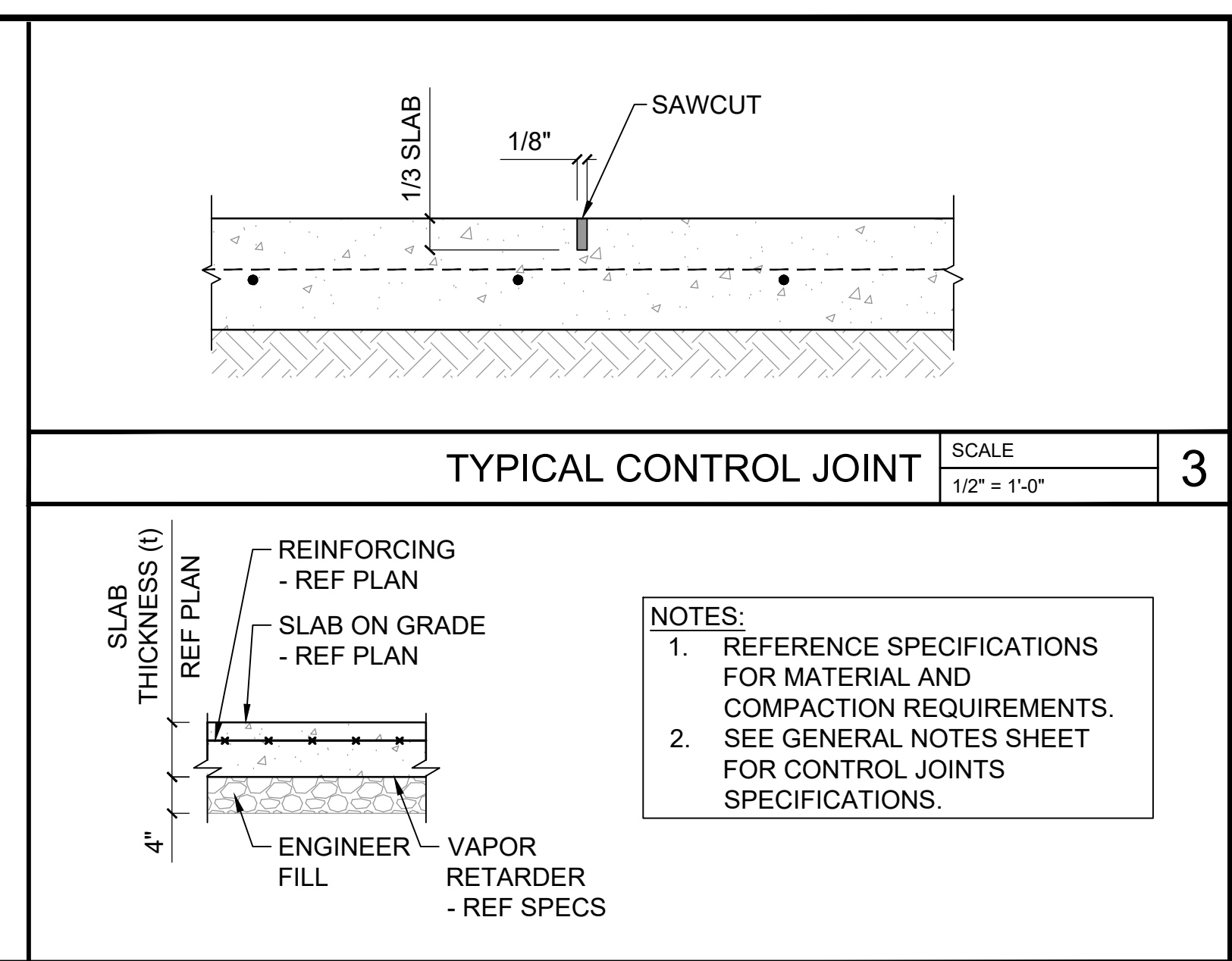
CORNER BASE PLATE SCALE 1/2" = 1'-0" 1



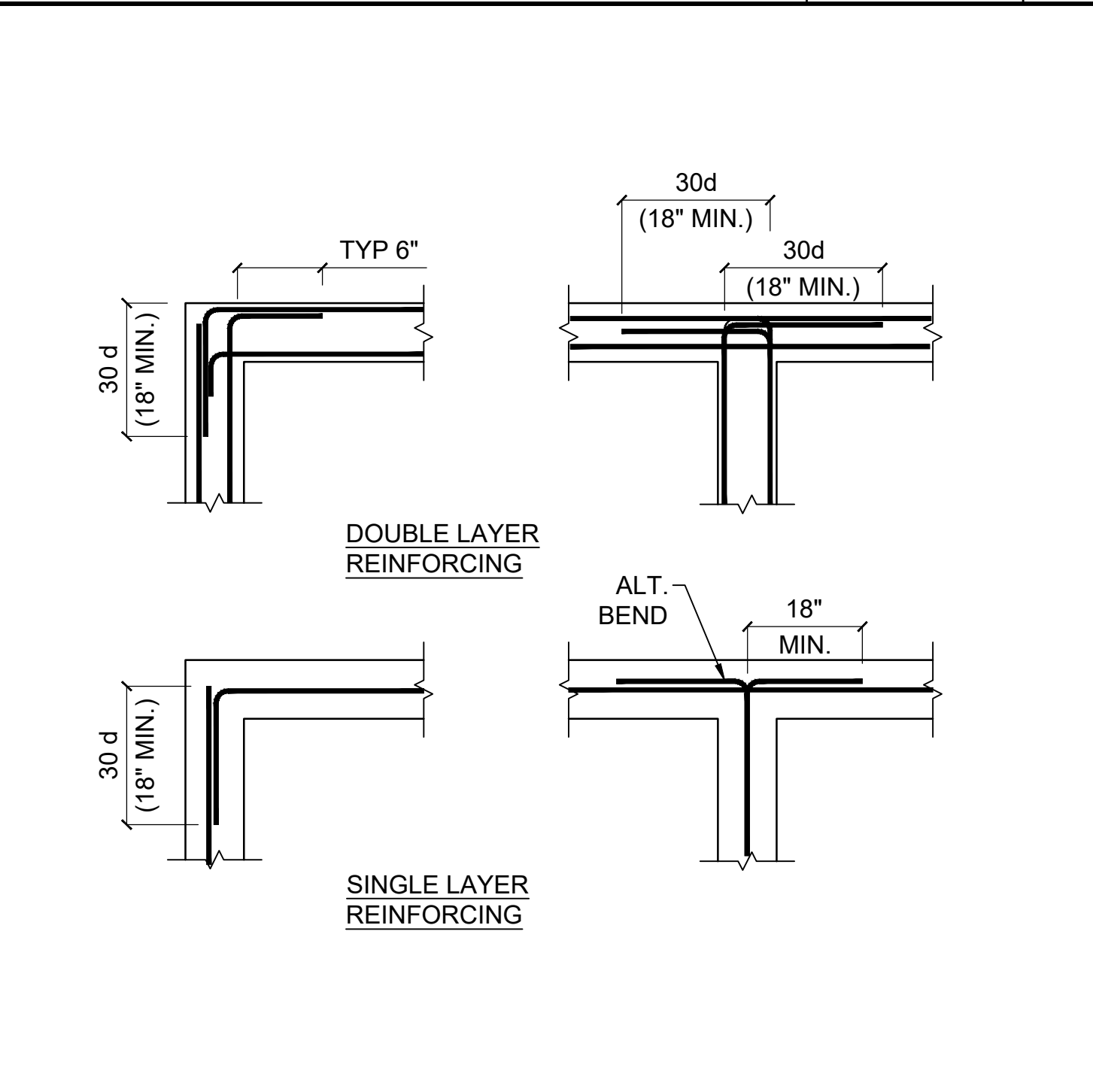
CONTRACTION JOINT @ POUR STOPS SCALE 1/2" = 1'-0" 2



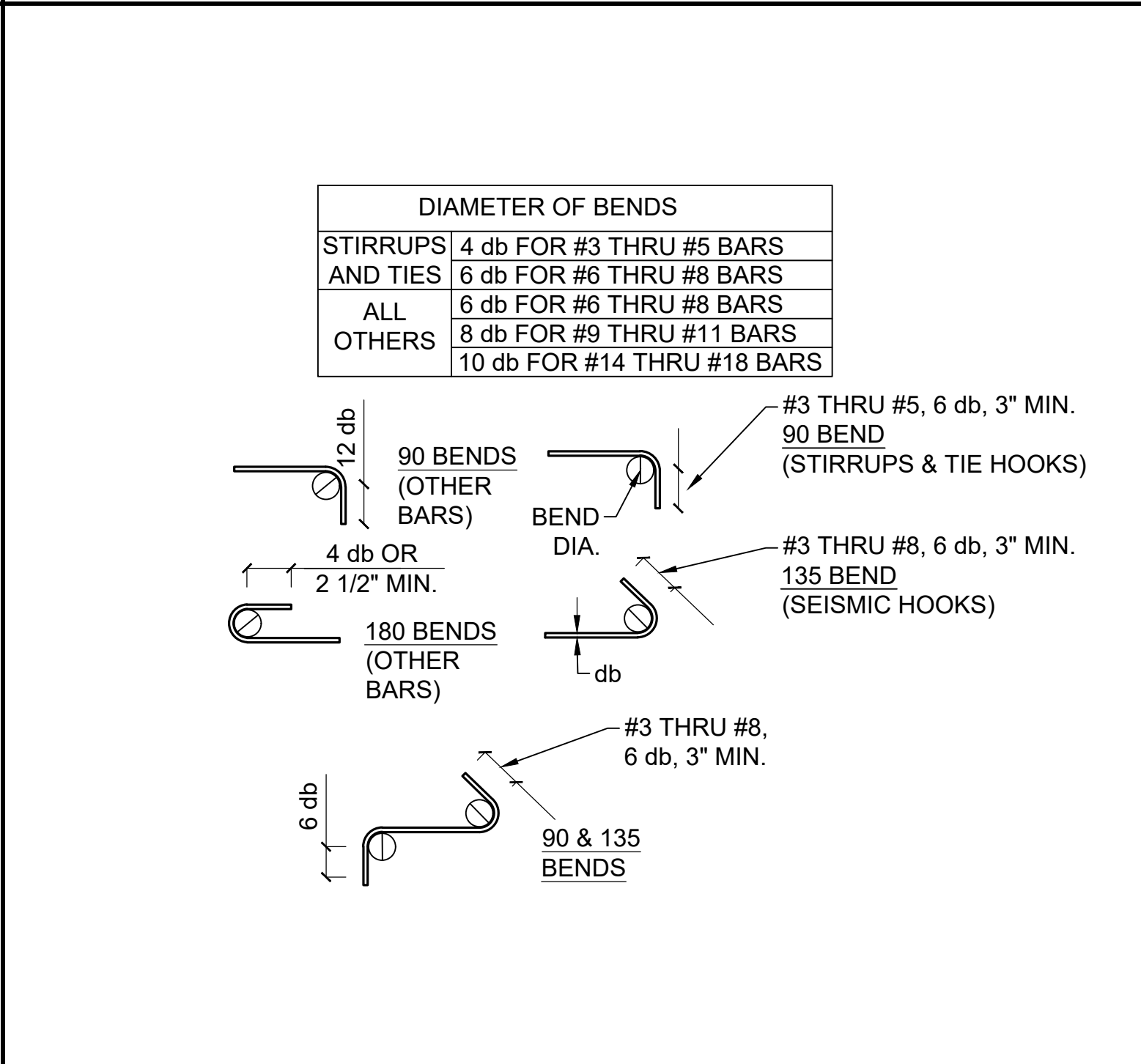
TYPICAL CONSTRUCTION/CONTRACTION JOINT SCALE 1/2" = 1'-0" 2



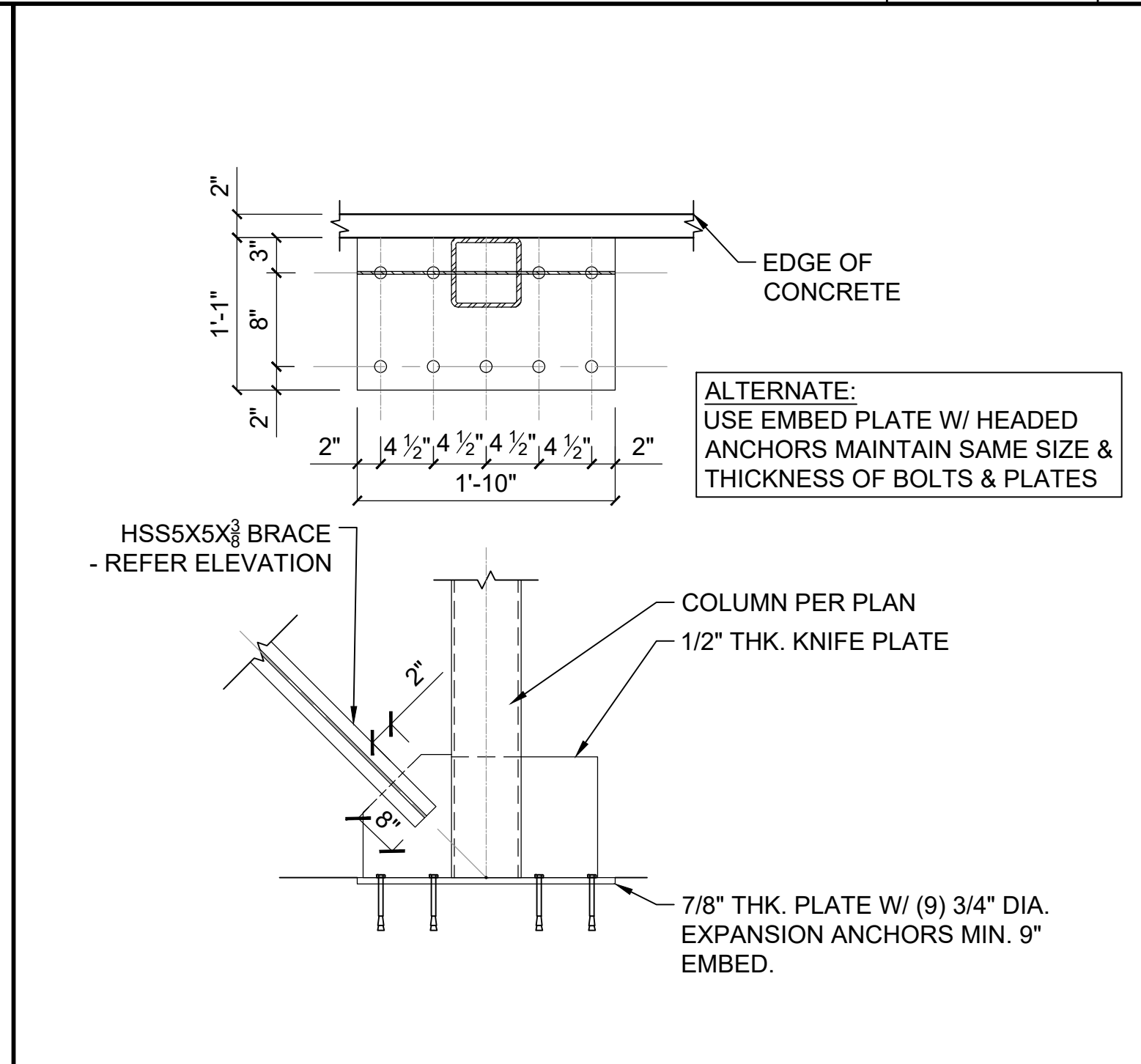
TYP. SLAB ON GRADE SCALE 1/2" = 1'-0" 4



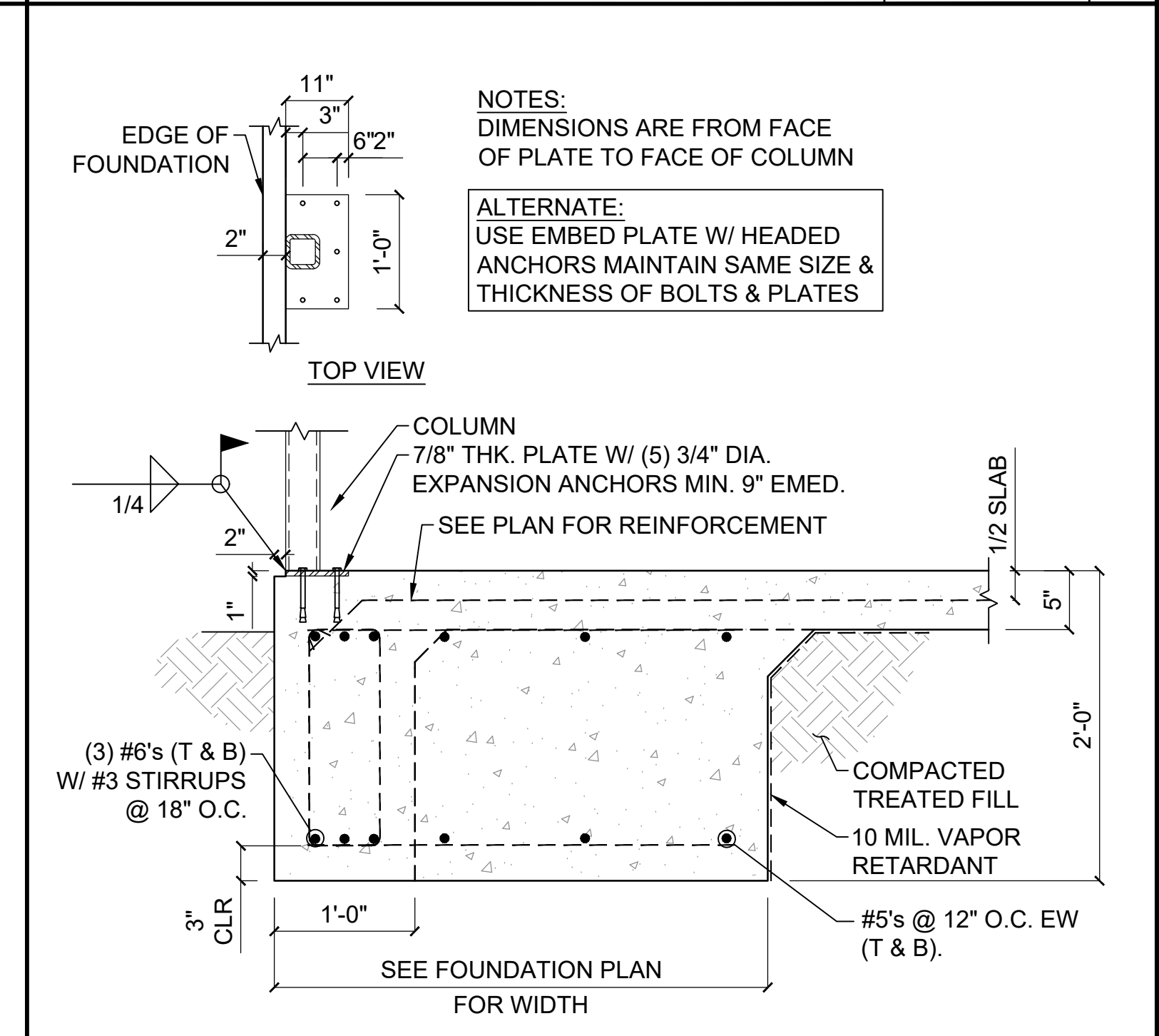
TYP. REINF. @ INT. CONC. GRADE BEAMS SCALE 1/2" = 1'-0" 5



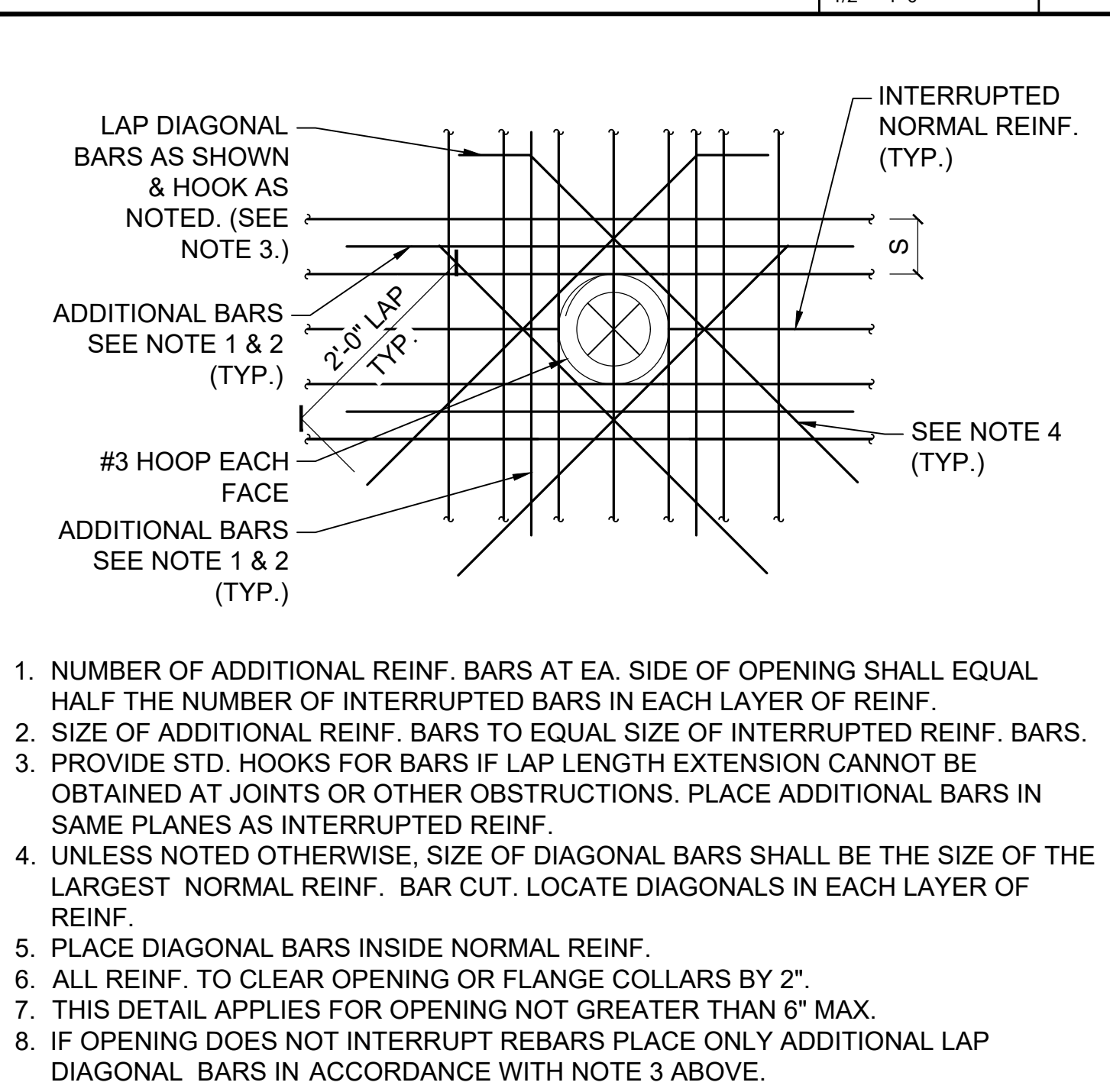
STANDARD BAR BENDING DETAILS SCALE 1/2" = 1'-0" 6



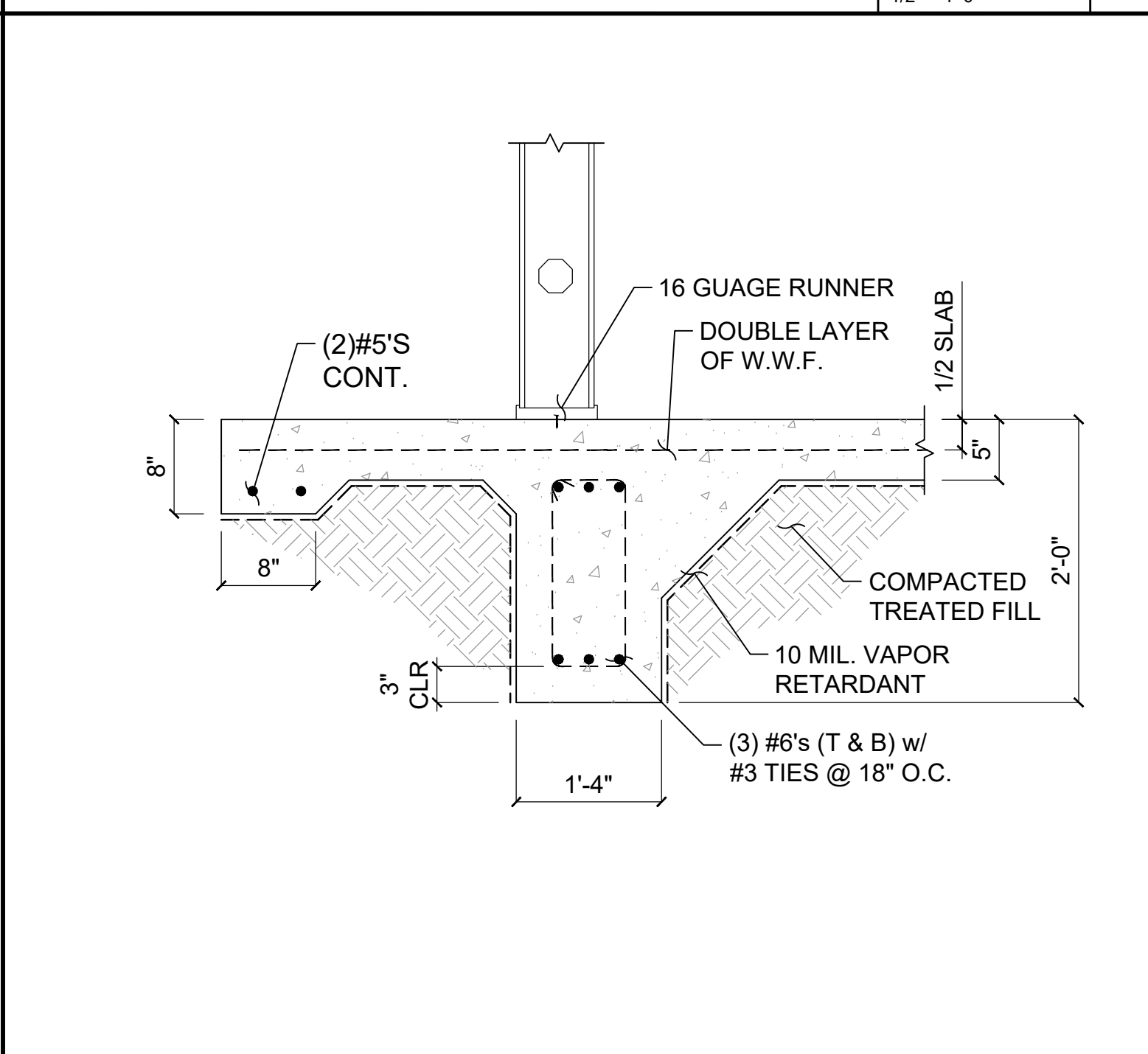
TYP. BASE PLATE DETAIL SCALE 1/2" = 1'-0" 7



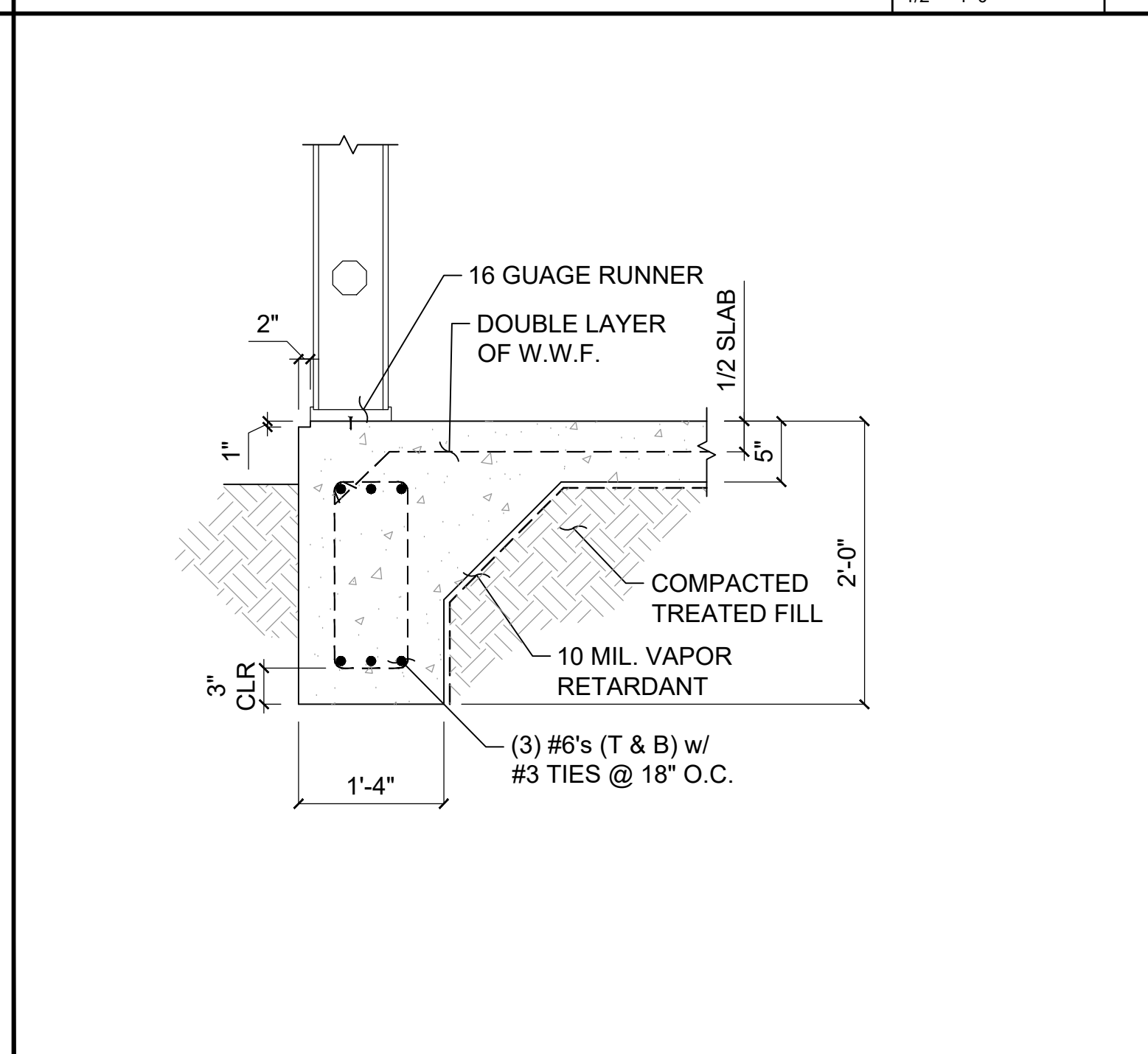
FOOTING AT COLUMN SCALE 1/2" = 1'-0" 8



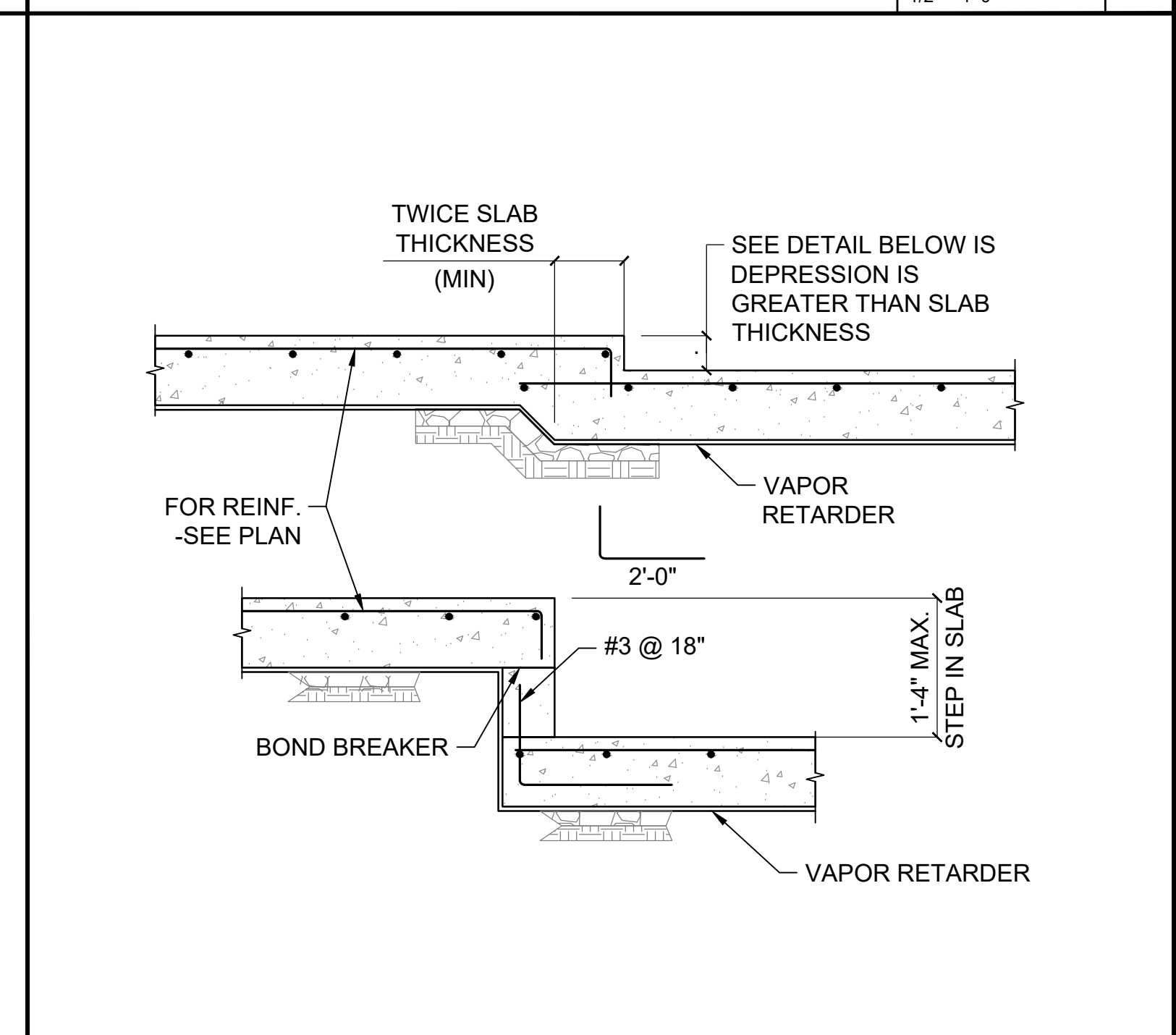
ADDIT. REBAR AT SLAB/ WALL OPENING SCALE 3/4" = 1'-0" 9



EXTRIOR GRADE BEAM @ BUMP OUT SCALE 1/2" = 1'-0" 10



EXTRIOR GRADE BEAM SCALE 1/2" = 1'-0" 11



DEPRESSION & STEP IN SLAB ON GRADE SCALE 3/4" = 1'-0" 12

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1	03/17/2023
2	01/04/2024

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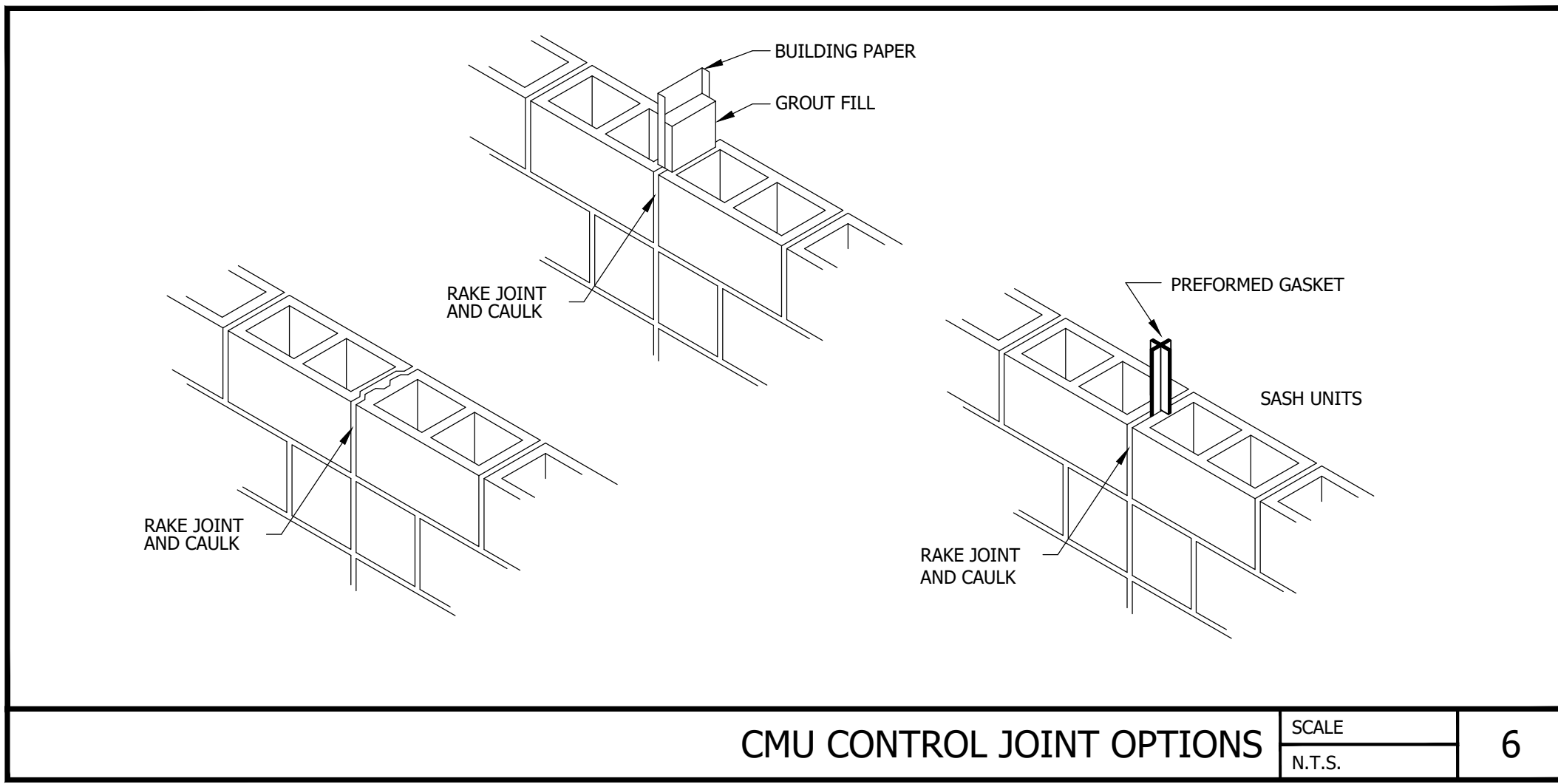
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CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Project No. 170-95.00

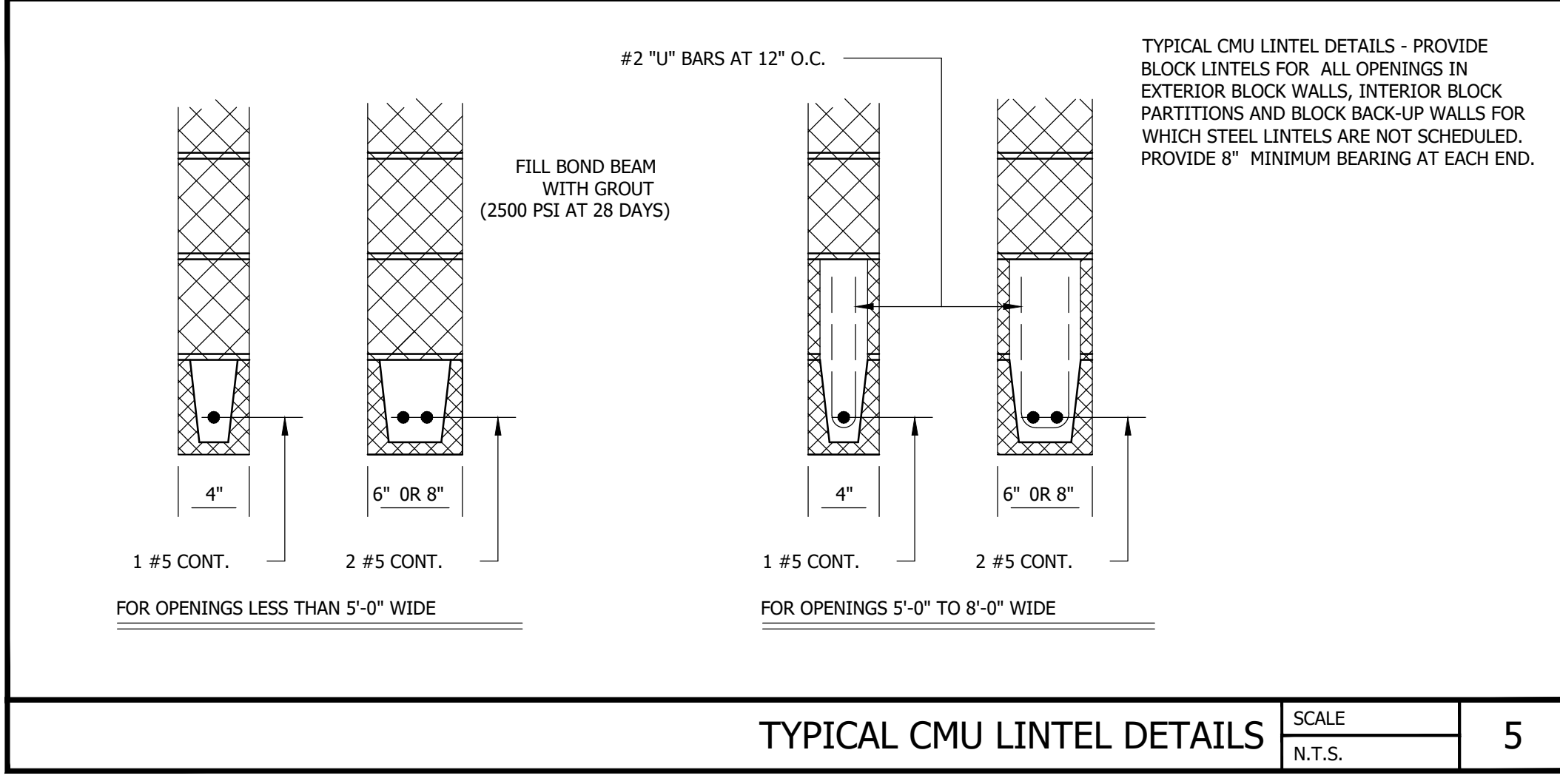
Sheet SD1.0

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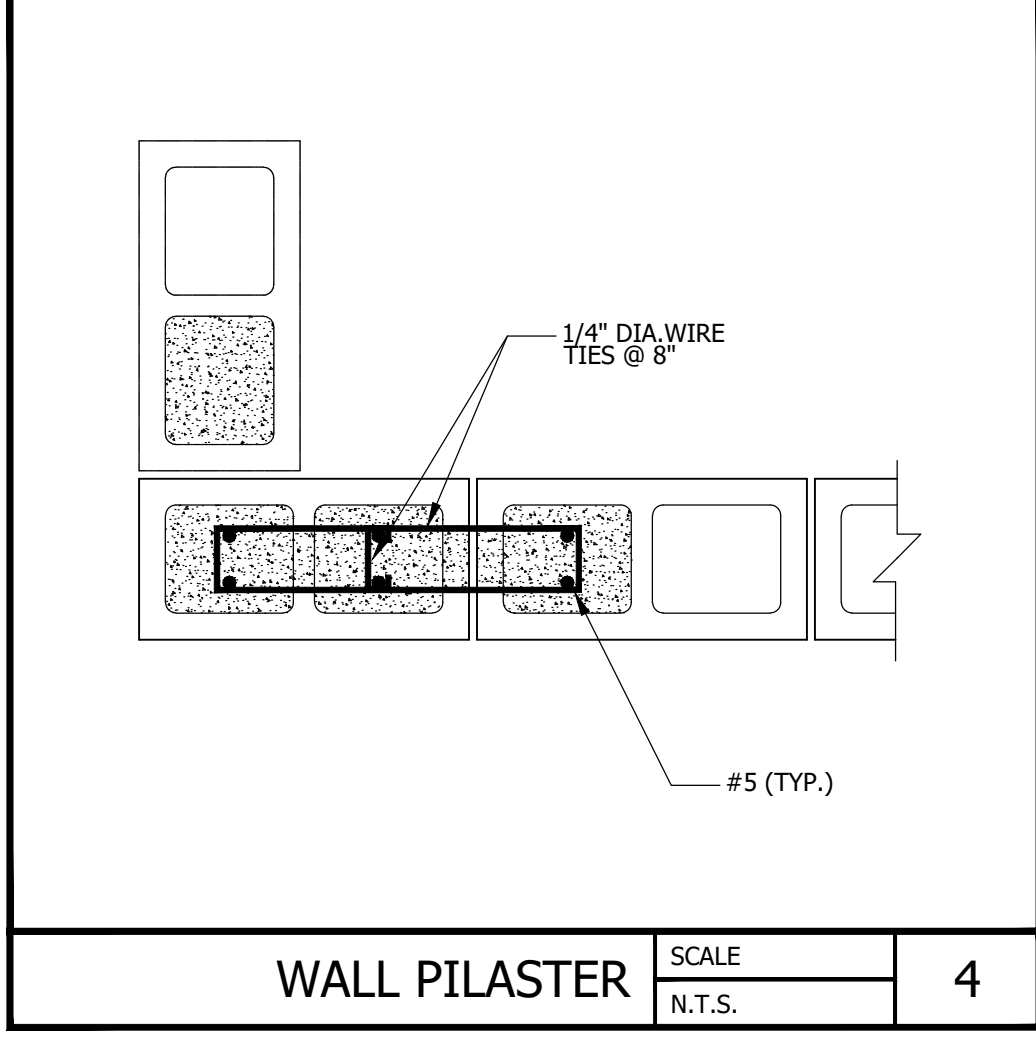
Foundation Details



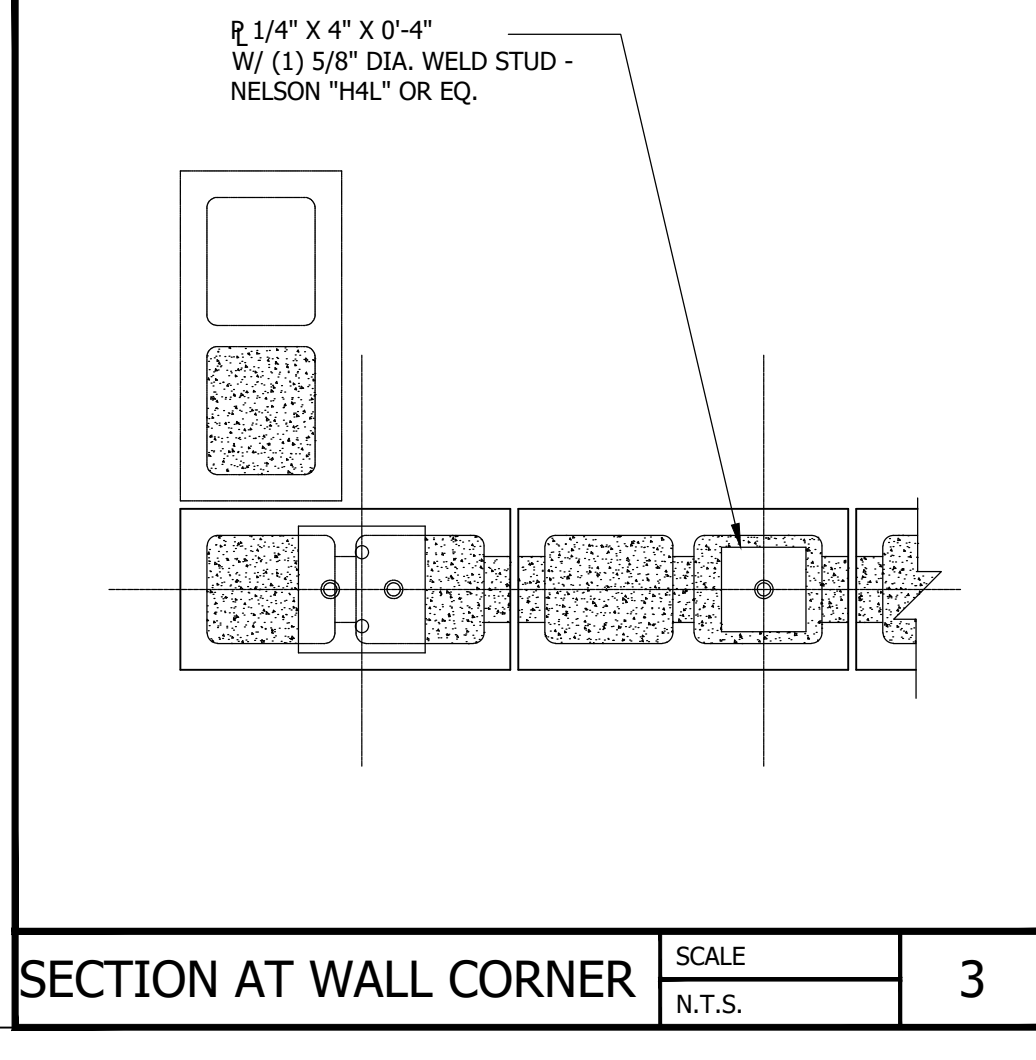
CMU CONTROL JOINT OPTIONS SCALE N.T.S. 6



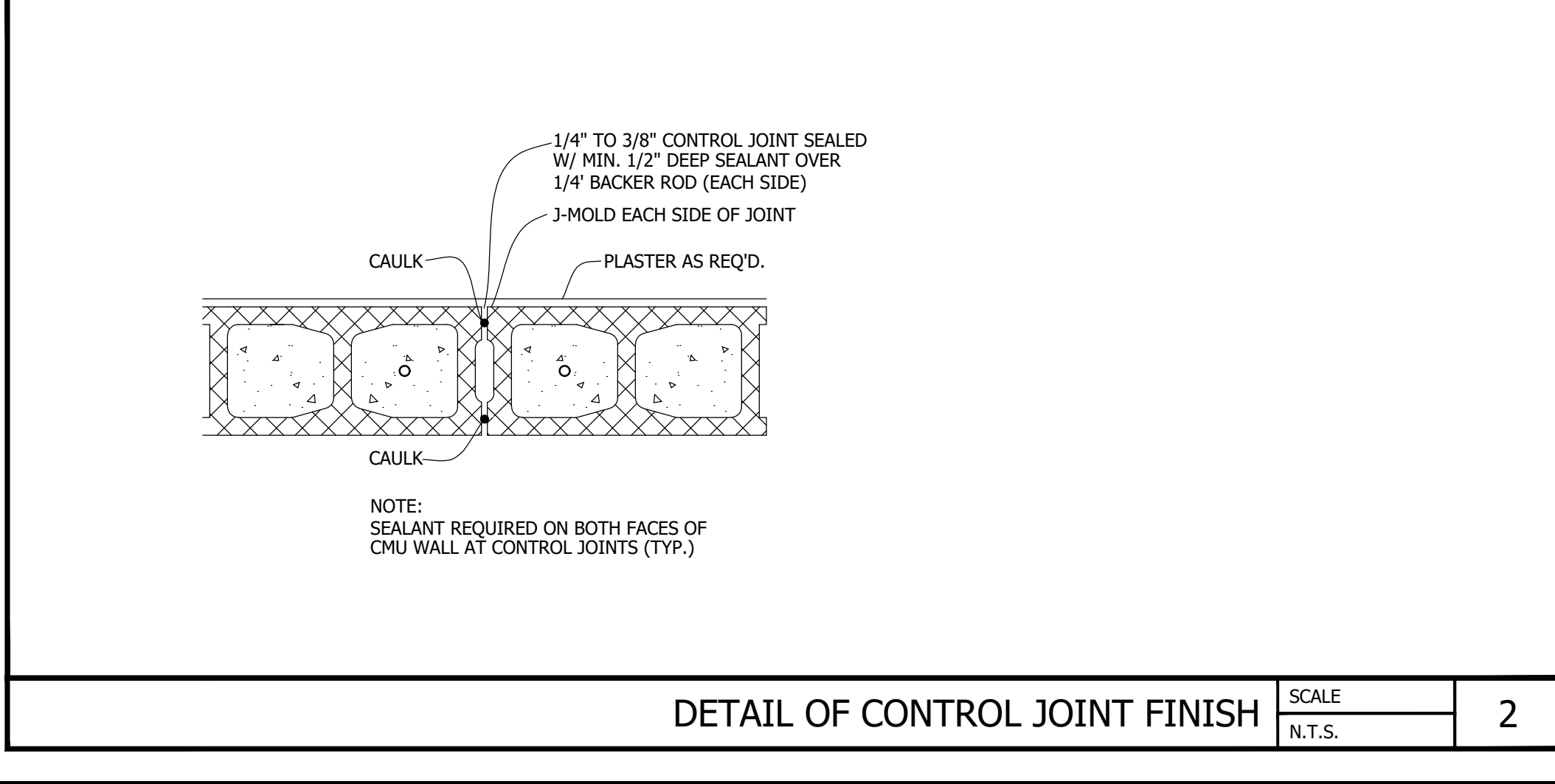
TYPICAL CMU LINTEL DETAILS SCALE N.T.S. 5



WALL PILASTER SCALE N.T.S. 4



SECTION AT WALL CORNER SCALE N.T.S. 3



DETAIL OF CONTROL JOINT FINISH SCALE N.T.S. 2

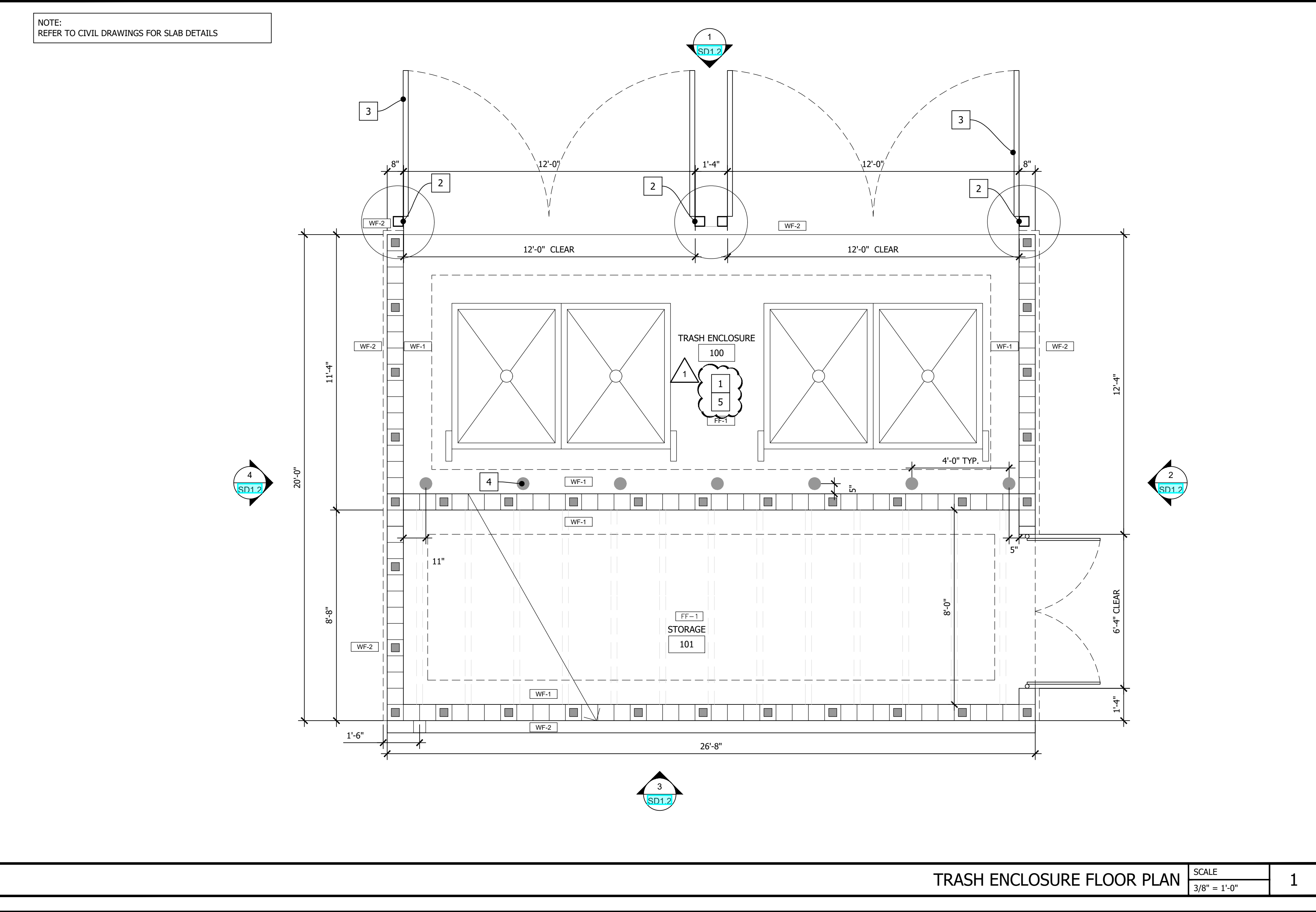
EXTERIOR ELEVATION FINISH SCHEDULE

SW-1	CREATIVE FAUX STONE AS PER OWNER'S SPECIFICATIONS
PT-1	CONCRETE BLOCK WALL - SHERWIN WILLIAM SW 6364
PT-2	SHERWIN WILLIAM 6115 (TOTALLY TAN)
MT-1	STANDING SEAM METAL ROOF - STANDARD SILVER

NOTE:
BOLLARD COLORS REFER TO DETAIL 5/SD1.3.

- GENERAL NOTES:**
- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
 - GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
 - THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
 - THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
 - PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE, UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
 - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
 - CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
 - ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
 - THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
 - UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE OWNER'S VENDORS ON SITE DURING CONSTRUCTION.
 - ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.

- PLAN NOTES:** X
- FLOOR SLOPE = 1/2"
 - 5"x5"x.25 THICK STEEL POST FILLED WITH CONCRETE AND STEEL WELDED CAP. SLOPE. PAINTED TO MATCH ADJACENT SURFACES
 - GATE REFER TO EXTERIOR ELEVATIONS AND DETAILS GATE AND HINGE BY JIMCO MANUFACTURING
 - BOLLARD TYPE "B", REFER TO DETAIL ON SHEET SD1.3
 - INTERIOR TO BE PAINTED PT-2, TOTALLY TAN.
- FINISH NOTES:**
- FF-1 CONCRETE FLOOR
 - WF-1 INTERIOR FINISH - CMU BLOCK WALL TO BE PAINTED
 - WF-2 EXTERIOR FINISH - STONE (MATCH MAIN STORE)



TRASH ENCLOSURE FLOOR PLAN SCALE 3/8" = 1'-0" 1

01/04/2024	03/12/2023	Date
ISSUE CLIENT COMMENTS - REV 1	ISSUE FOR PERMIT	Revision/Issue
2	1	No.

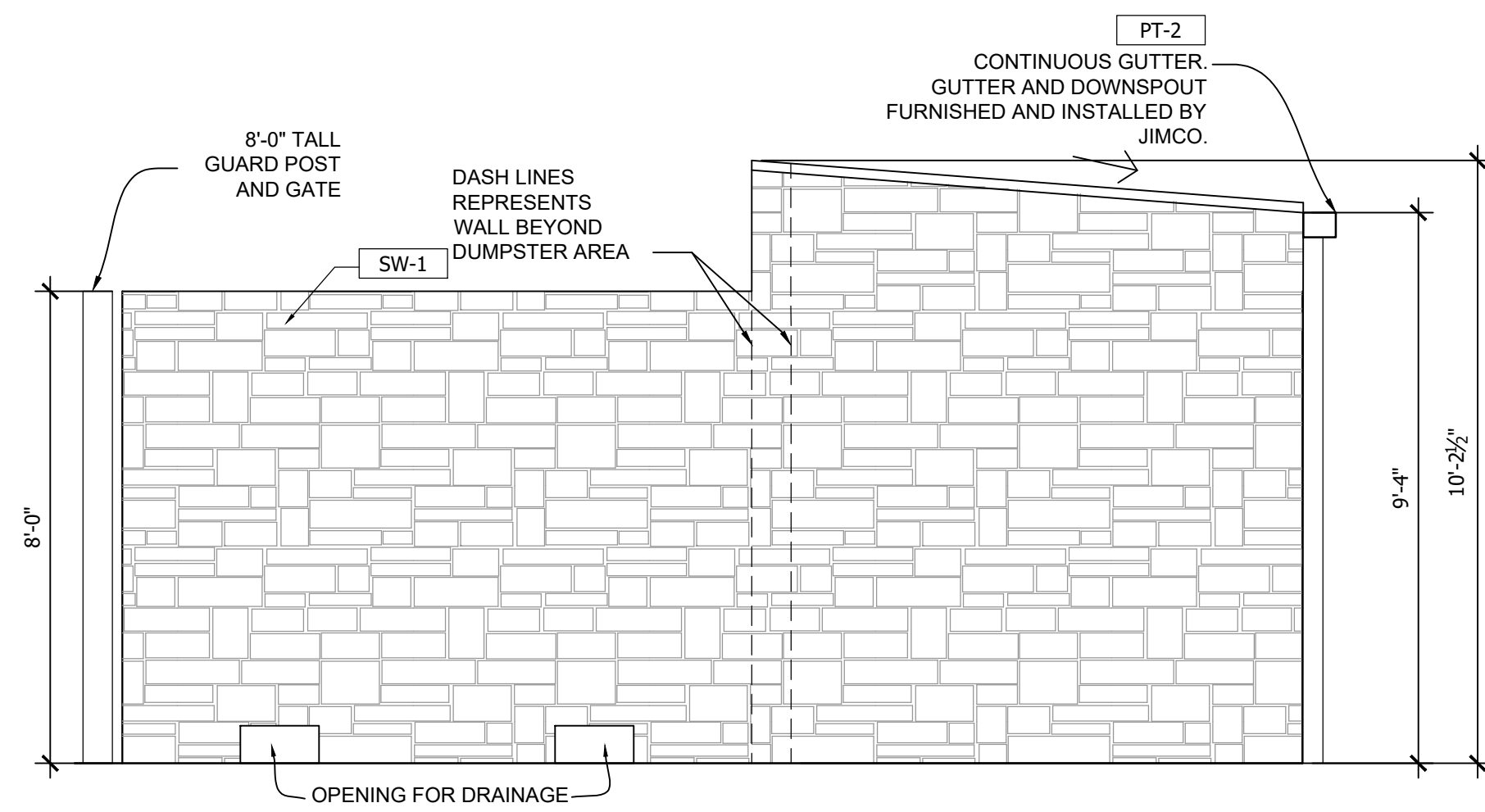
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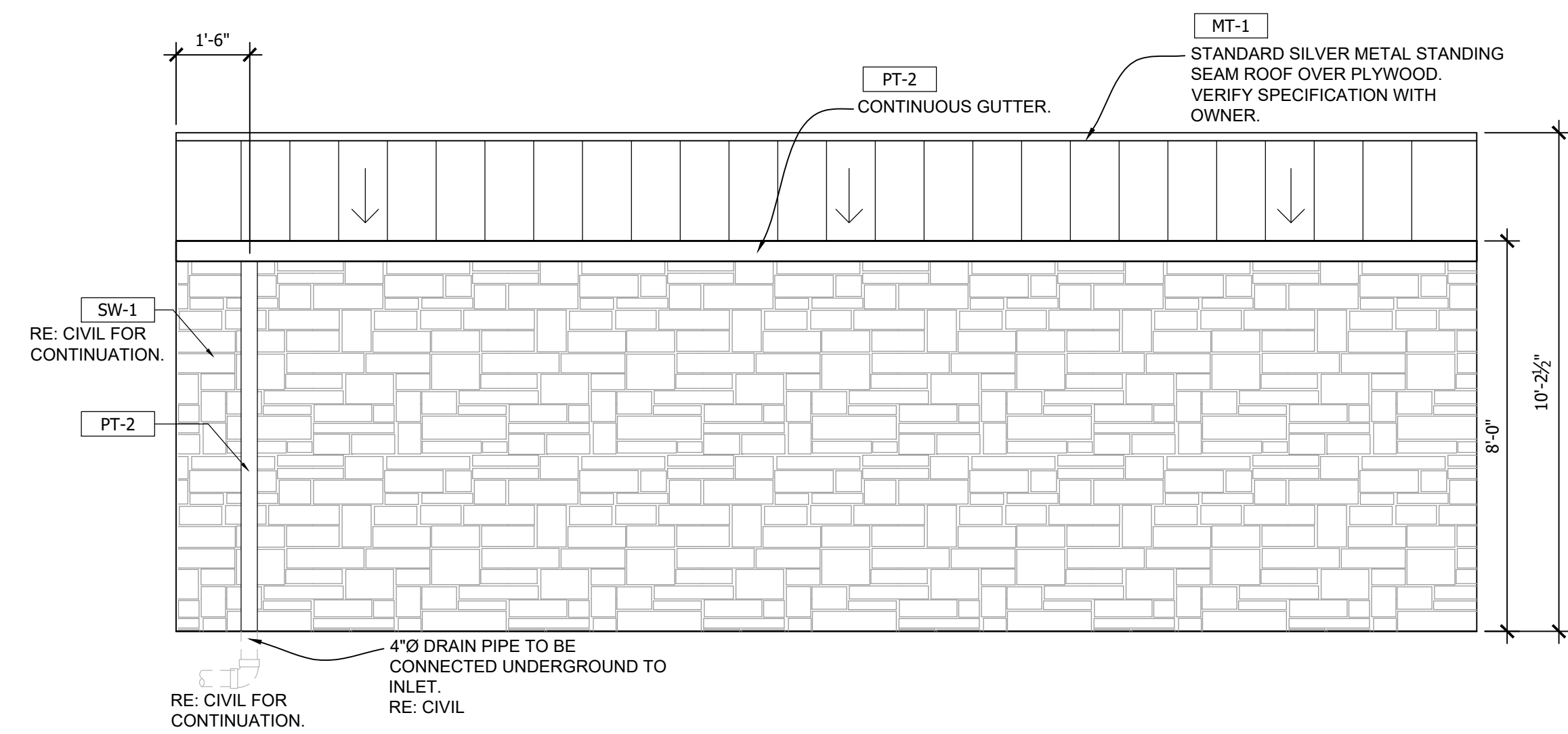
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
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Project No. 170-95.00
Sheet
Drawn By: **SD1.1**
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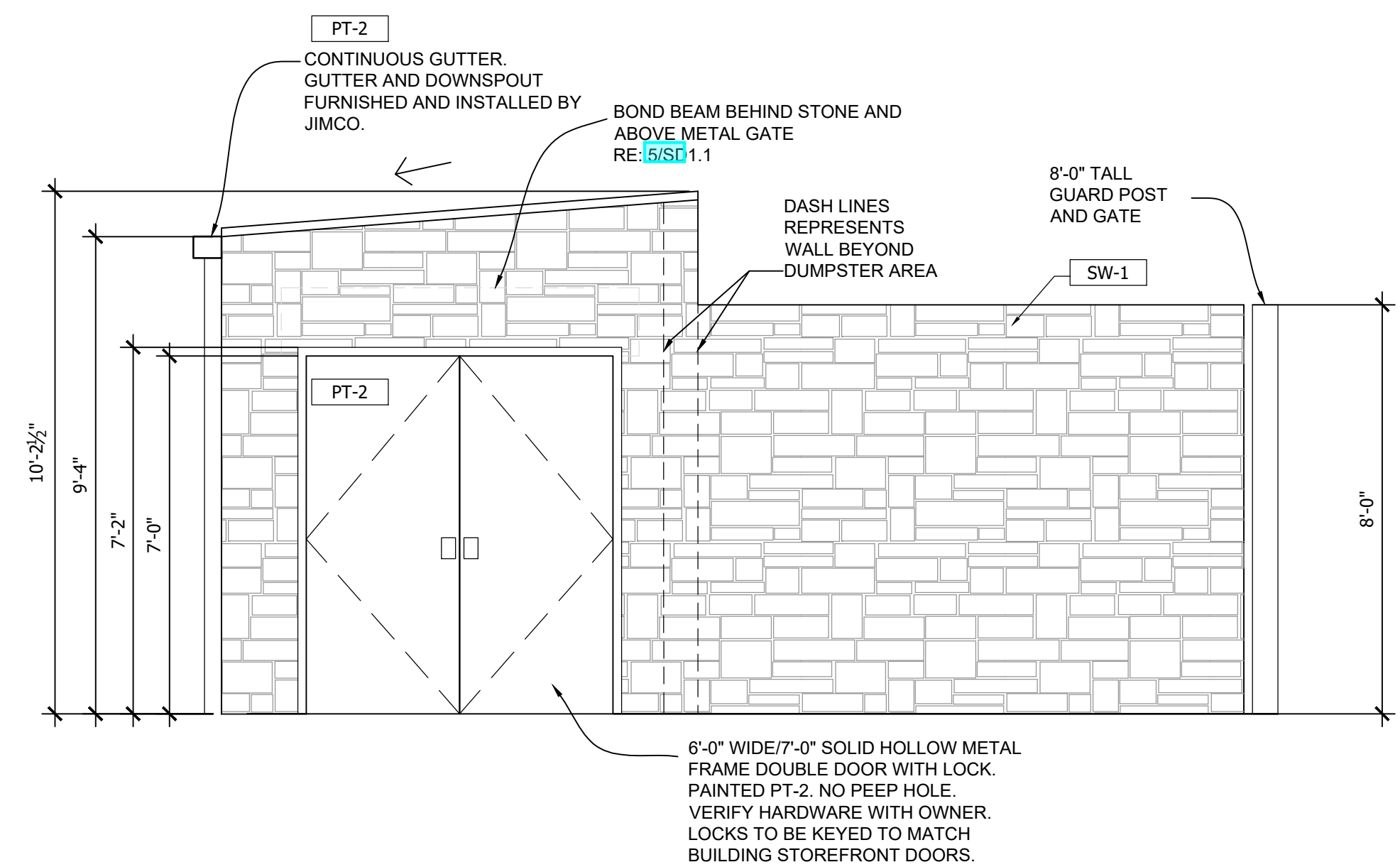
TRASH ENCLOSURE SIDE ELEVATION

SCALE
3/8" = 1'-0" 4



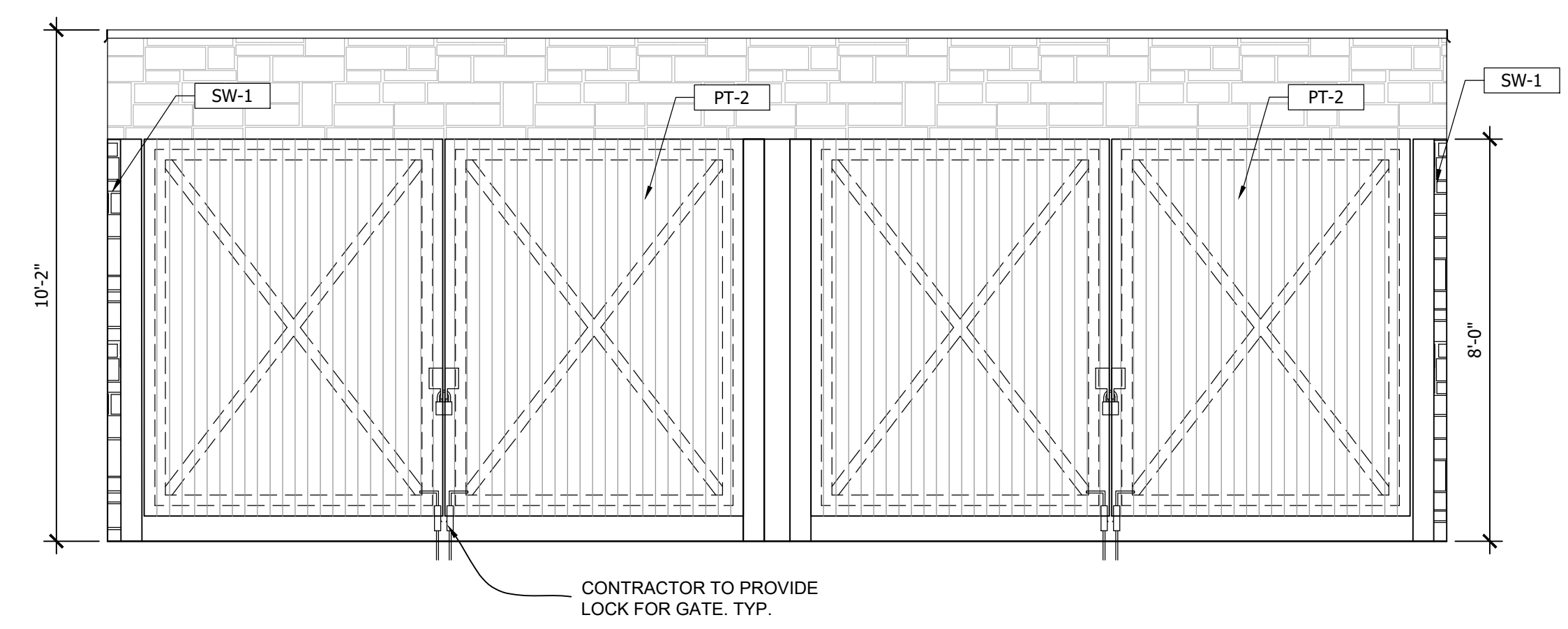
TRASH ENCLOSURE REAR ELEVATION

SCALE
3/8" = 1'-0" 3



TRASH ENCLOSURE SIDE ELEVATION

SCALE
3/8" = 1'-0" 2



TRASH ENCLOSURE FRONT ELEVATION

SCALE
3/8" = 1'-0" 1

1

TRASH ENCLOSURE HARDWARE GROUP				
Quantity	Description	Model Number	Finish	Mfr.
6 EA	HINGE	TA2413 4.5 X 4.5	32D	MCKINNEY
1 EA	LOCKSET	AL4705LN	32D	YALE
2 EA	FLUSH BOLTS	555	32D	ROCKWOOD
2 EA	SURFACE CLOSER	2701	689	YALE
1 EA	THRESHOLD	2005AT-72	32	PEMCO
2 EA	SWEEPS	307AV-36	-	PEMCO

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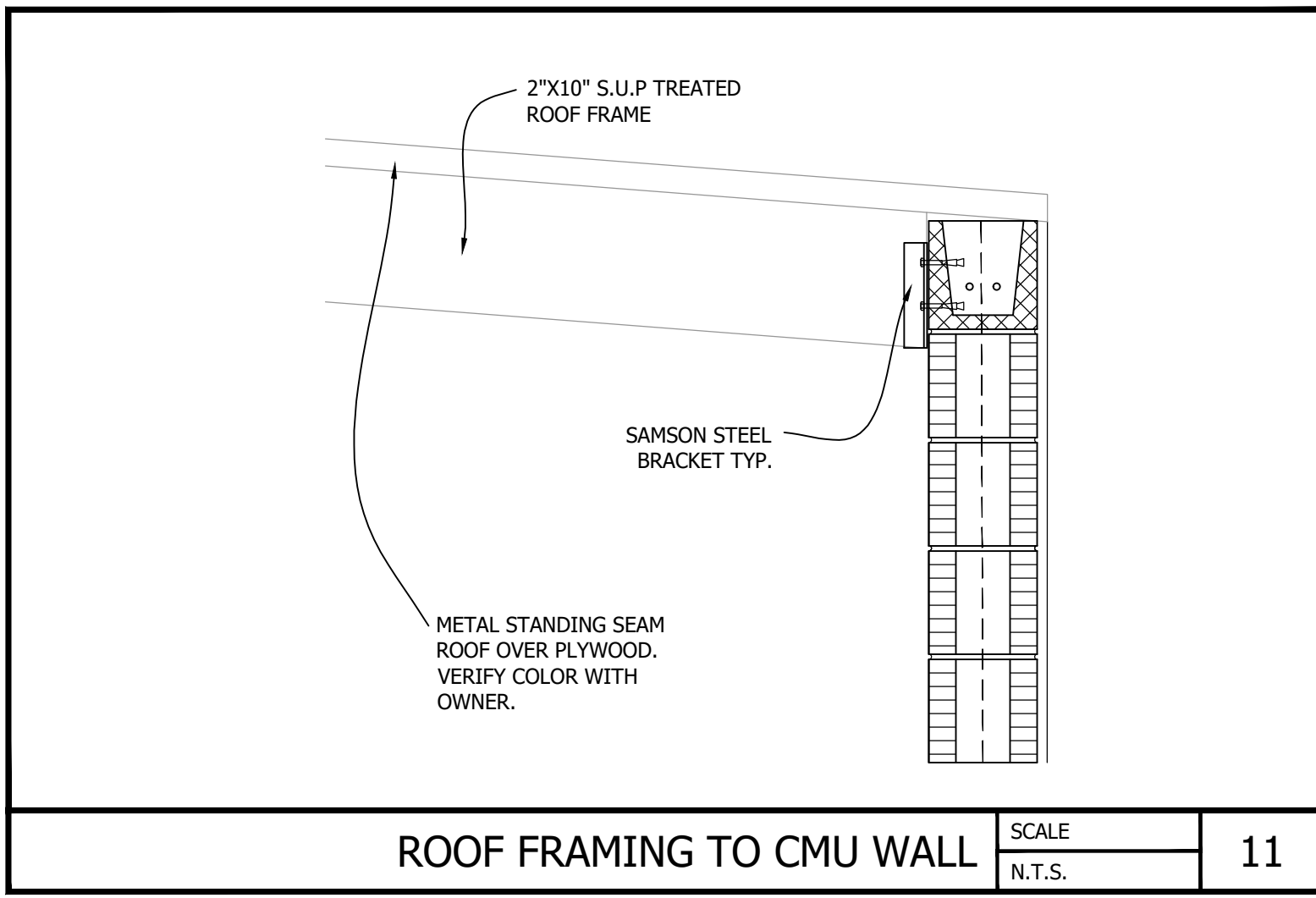
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TRASH ENCLOSURE EXTERIOR ELEVATIONS

Project No.
170-95.00

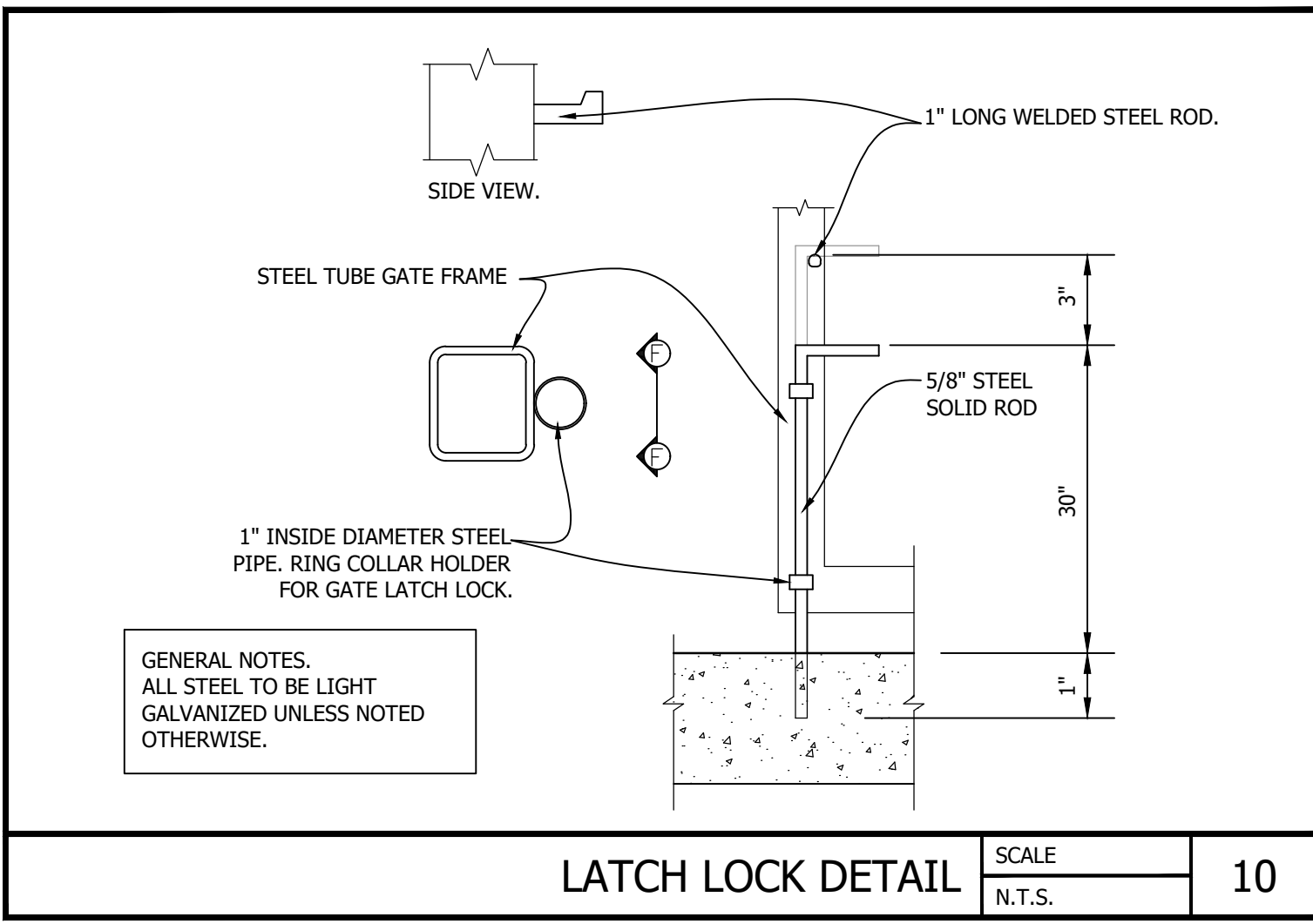
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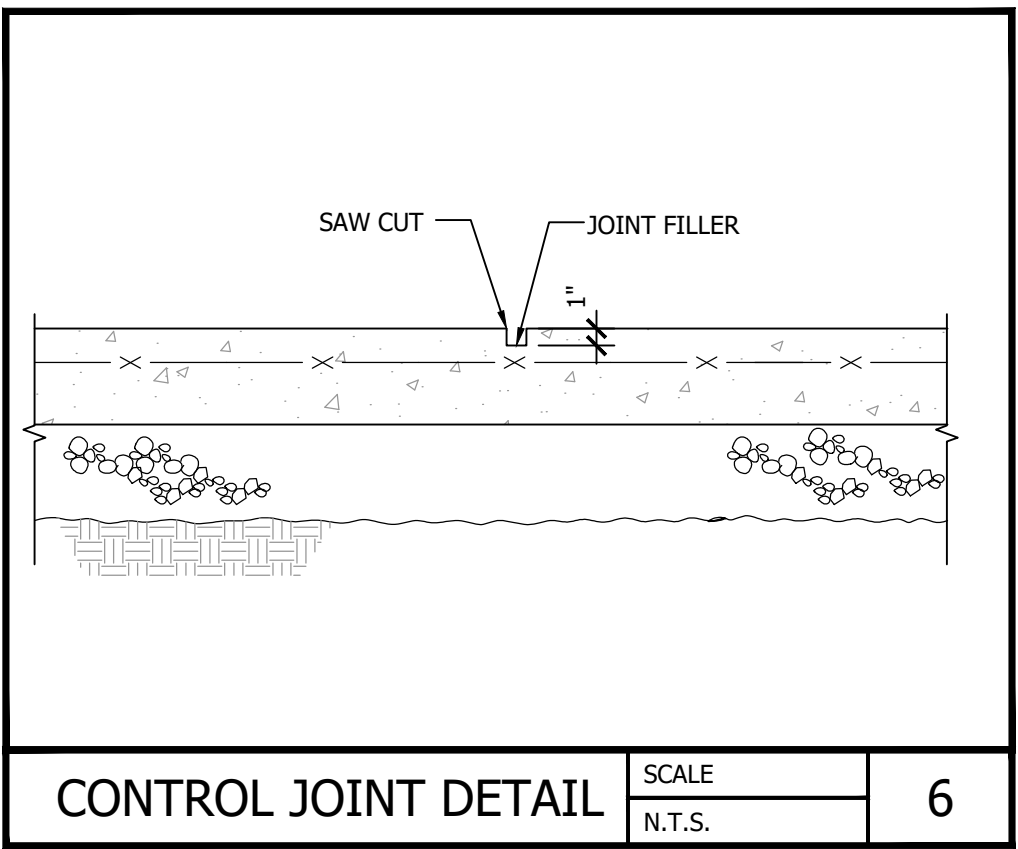


ROOF FRAMING TO CMU WALL SCALE N.T.S. 11

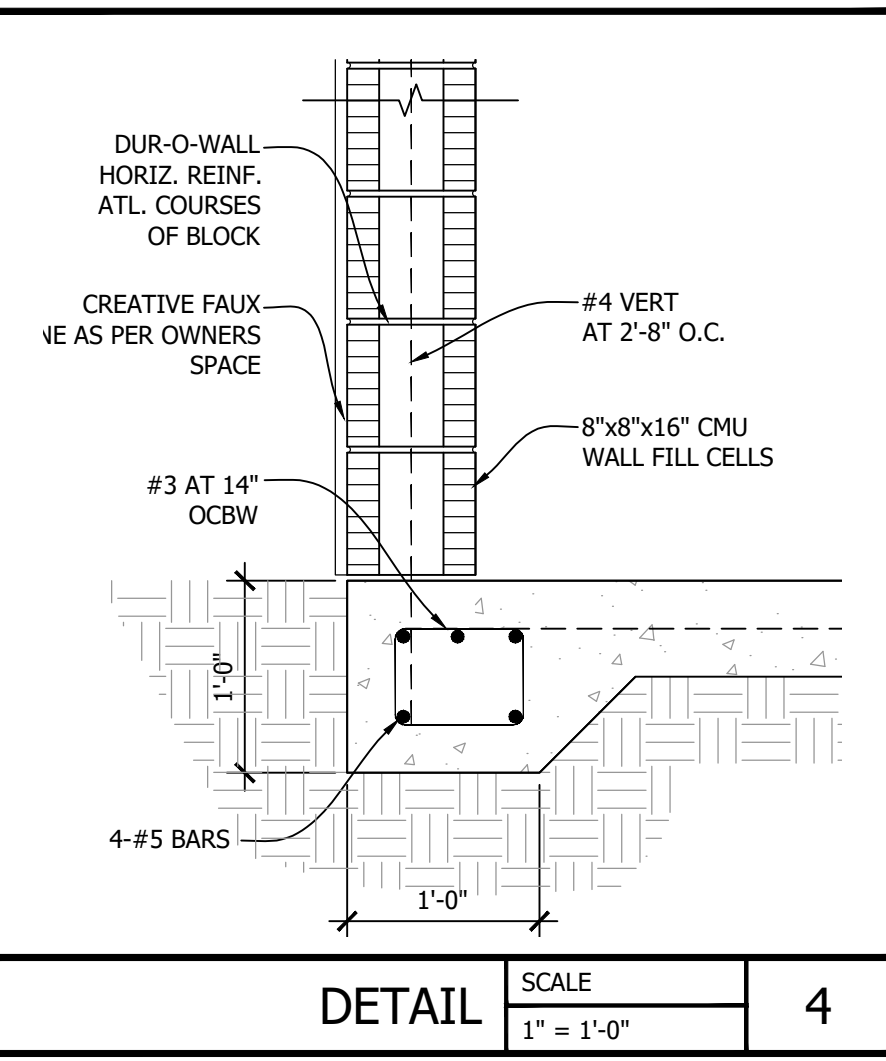


LATCH LOCK DETAIL SCALE N.T.S. 10

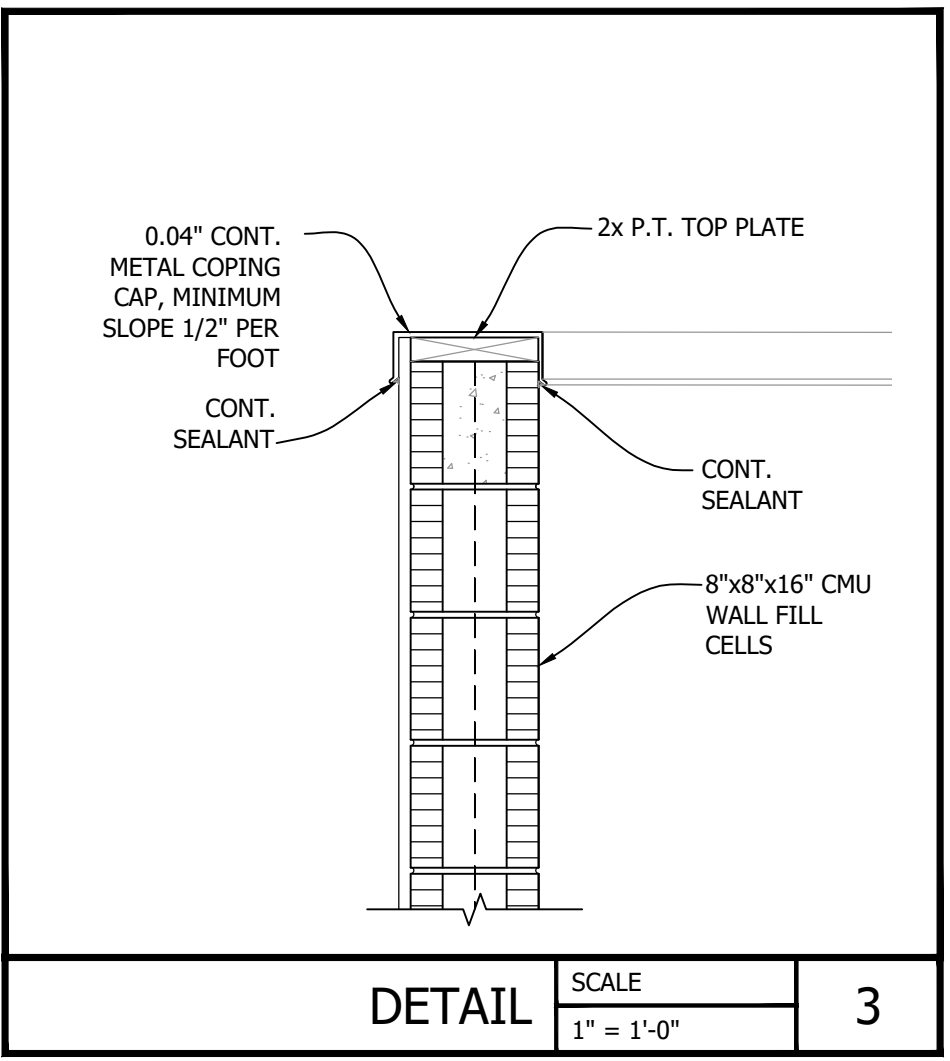
GENERAL NOTES:
ALL STEEL TO BE LIGHT GALVANIZED UNLESS NOTED OTHERWISE.



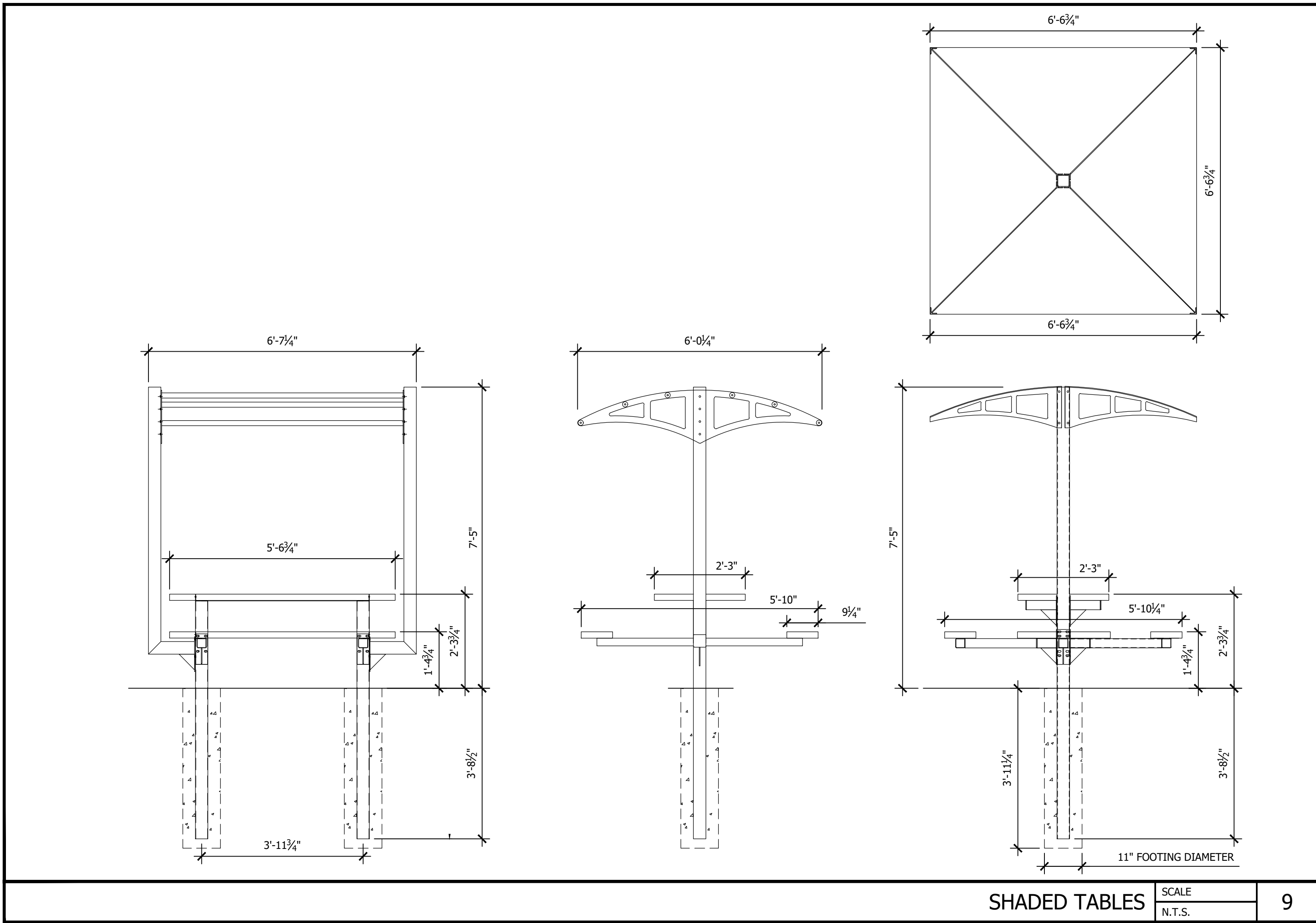
CONTROL JOINT DETAIL SCALE N.T.S. 6



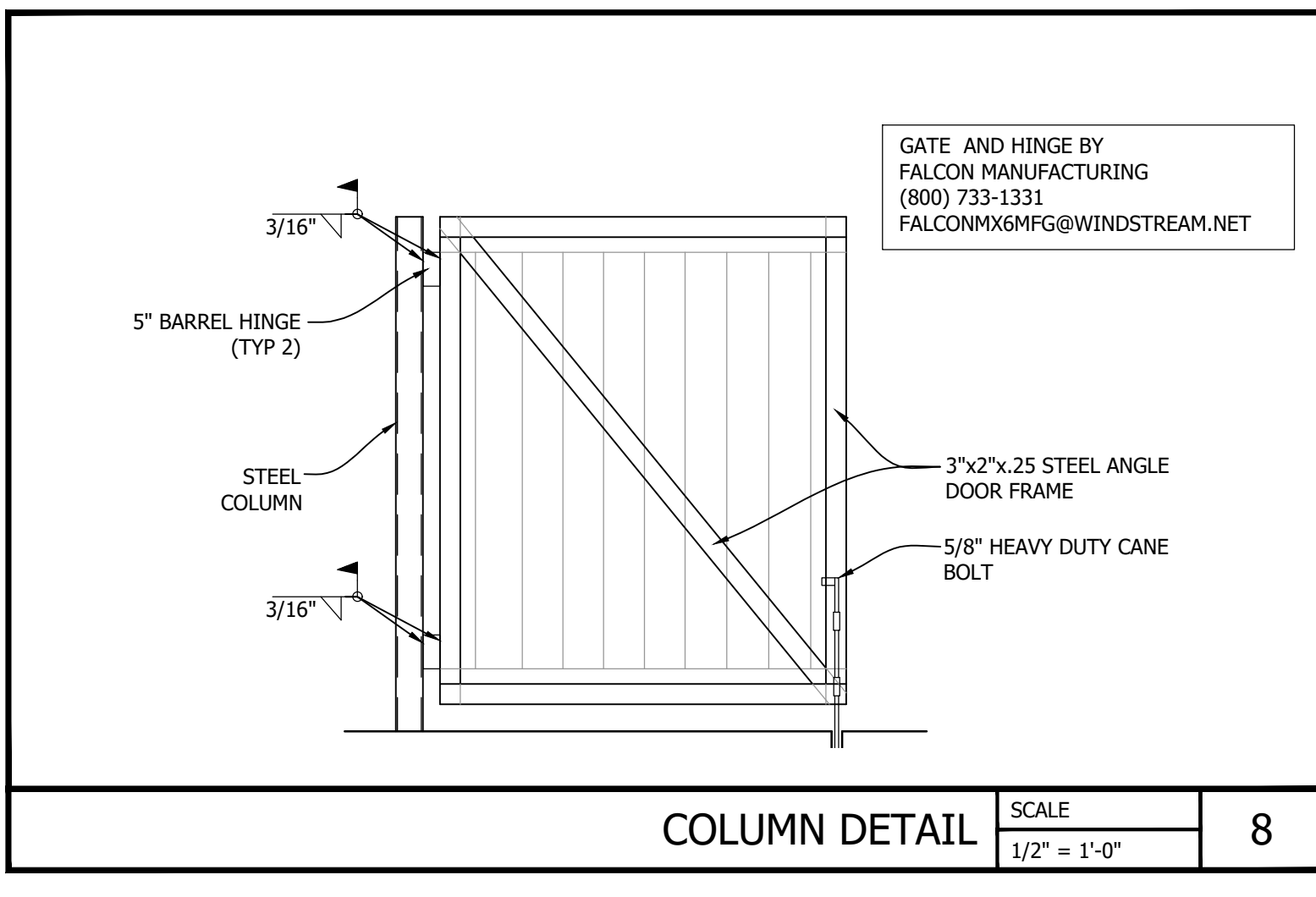
DETAIL SCALE 1" = 1'-0" 4



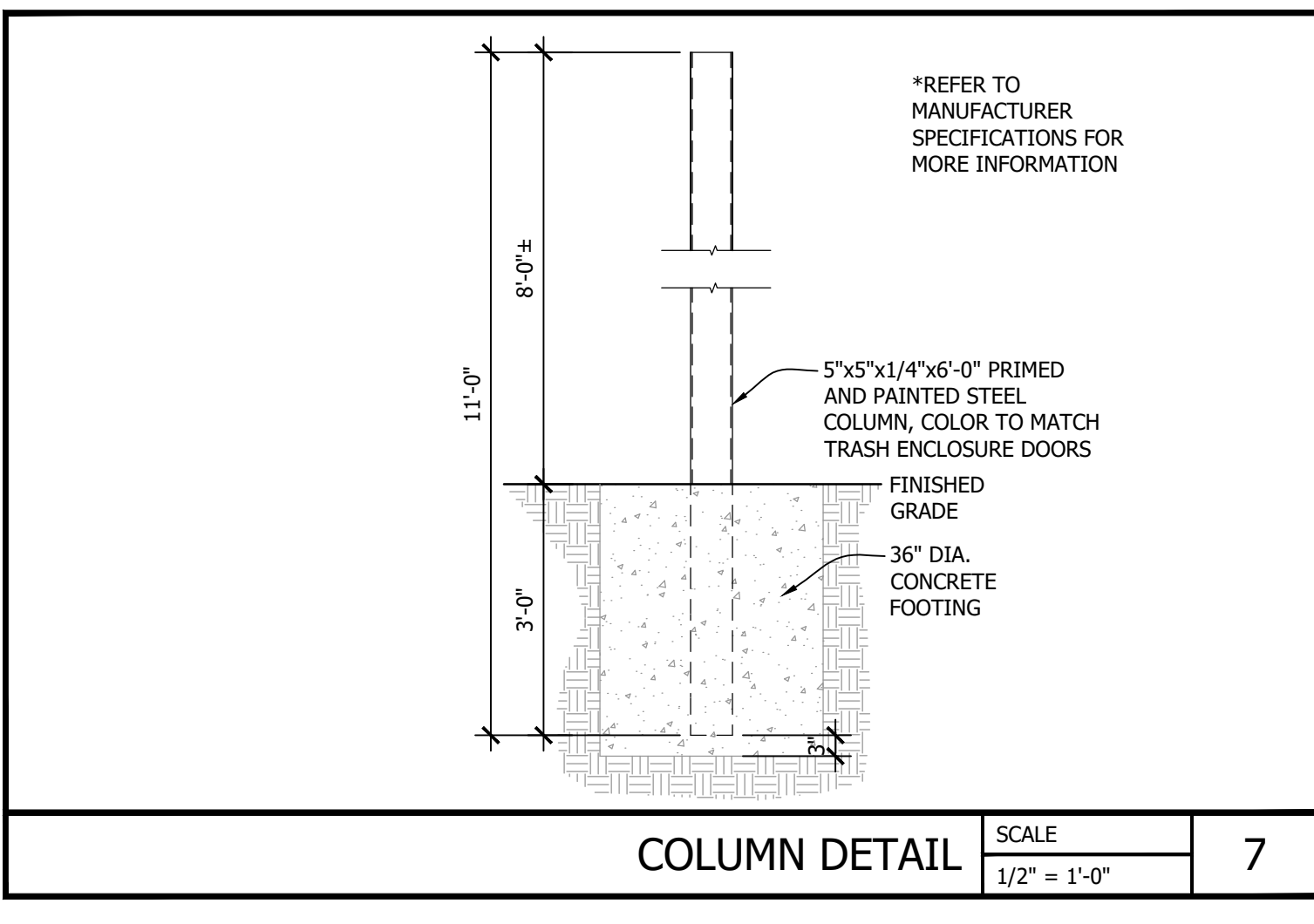
DETAIL SCALE 1" = 1'-0" 3



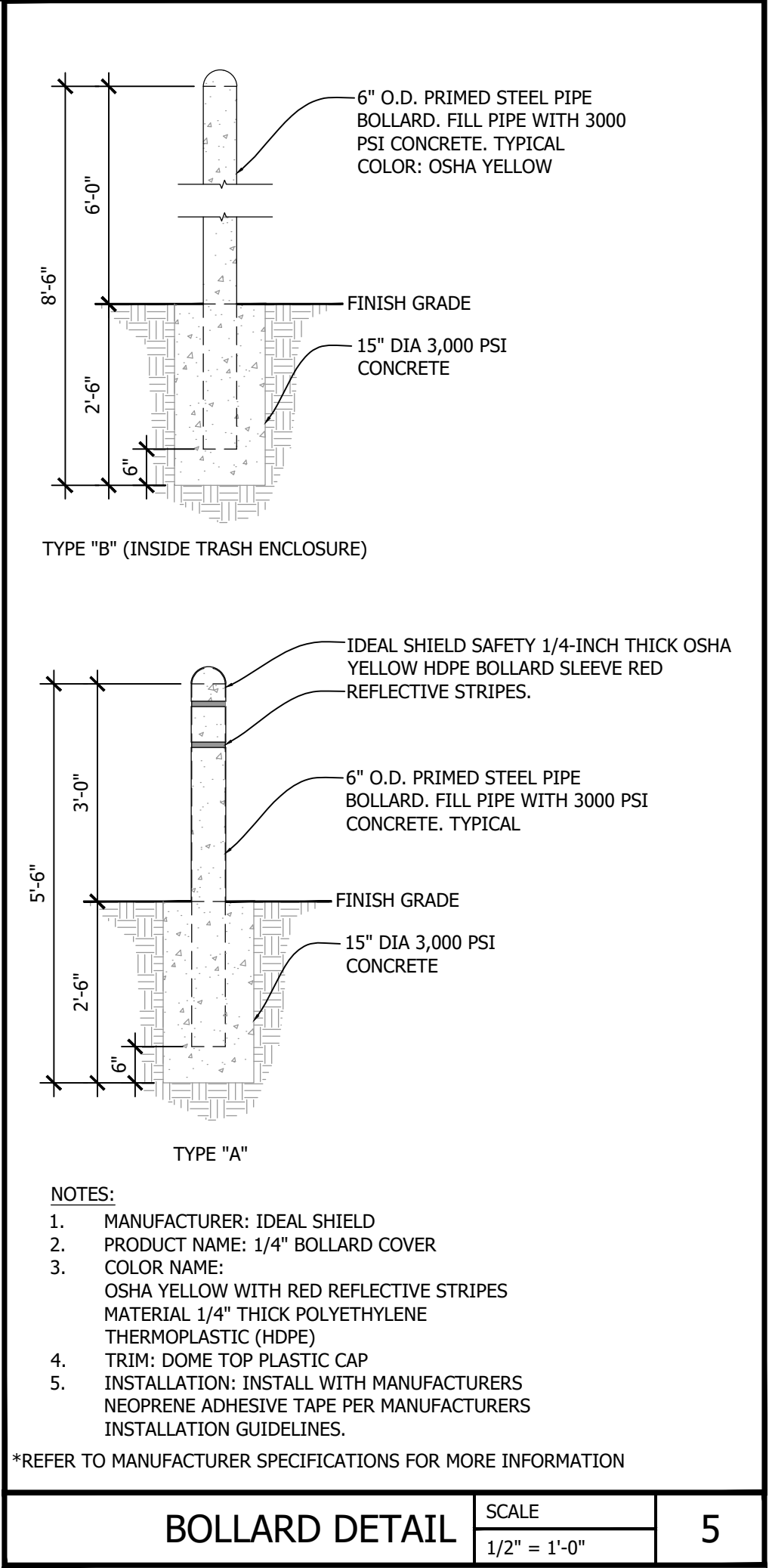
SHADED TABLES SCALE N.T.S. 9



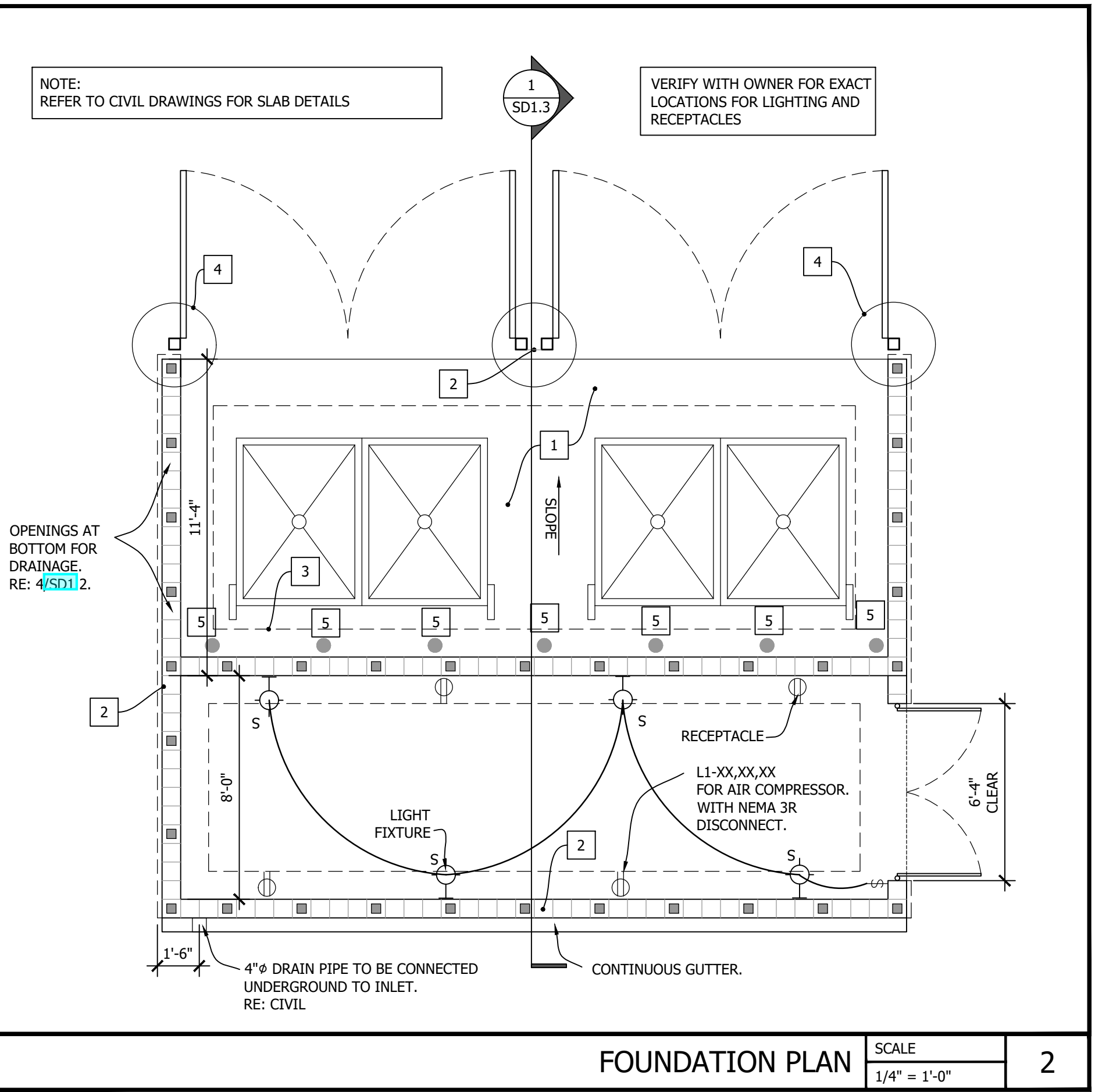
COLUMN DETAIL SCALE 1/2" = 1'-0" 8



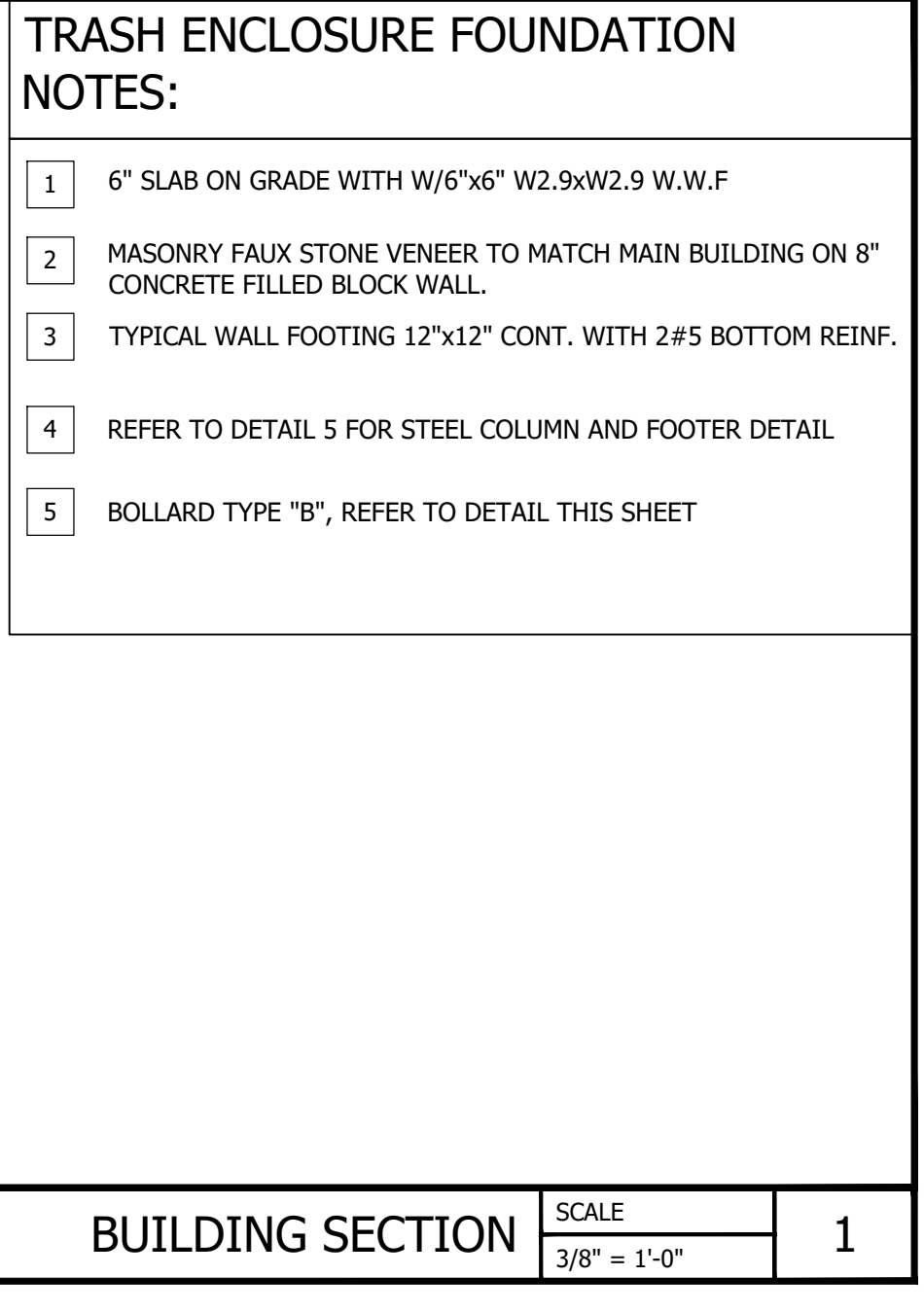
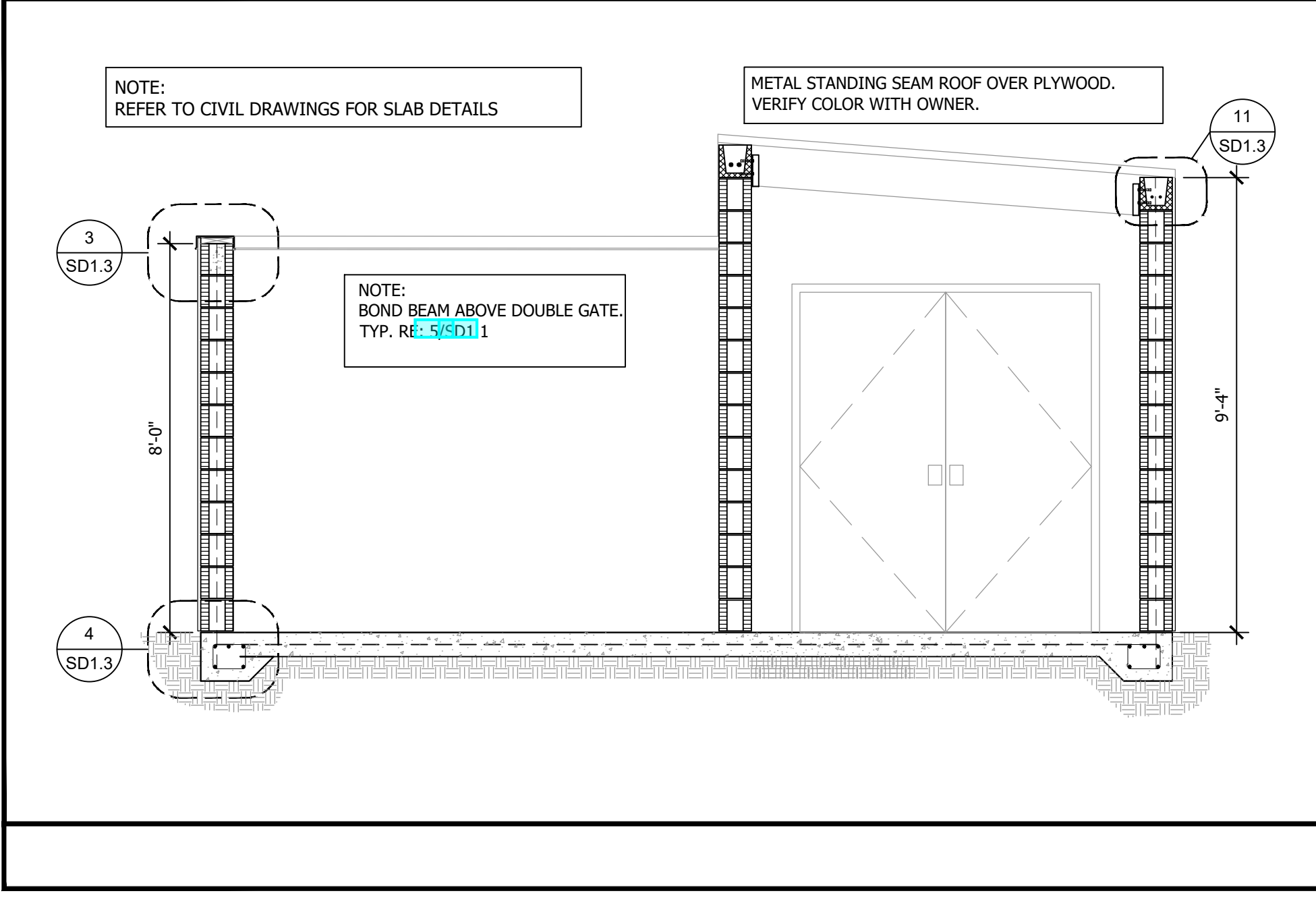
COLUMN DETAIL SCALE 1/2" = 1'-0" 7



BOLLARD DETAIL SCALE 1/2" = 1'-0" 5



FOUNDATION PLAN SCALE 1/4" = 1'-0" 2



BUILDING SECTION SCALE 3/8" = 1'-0" 1

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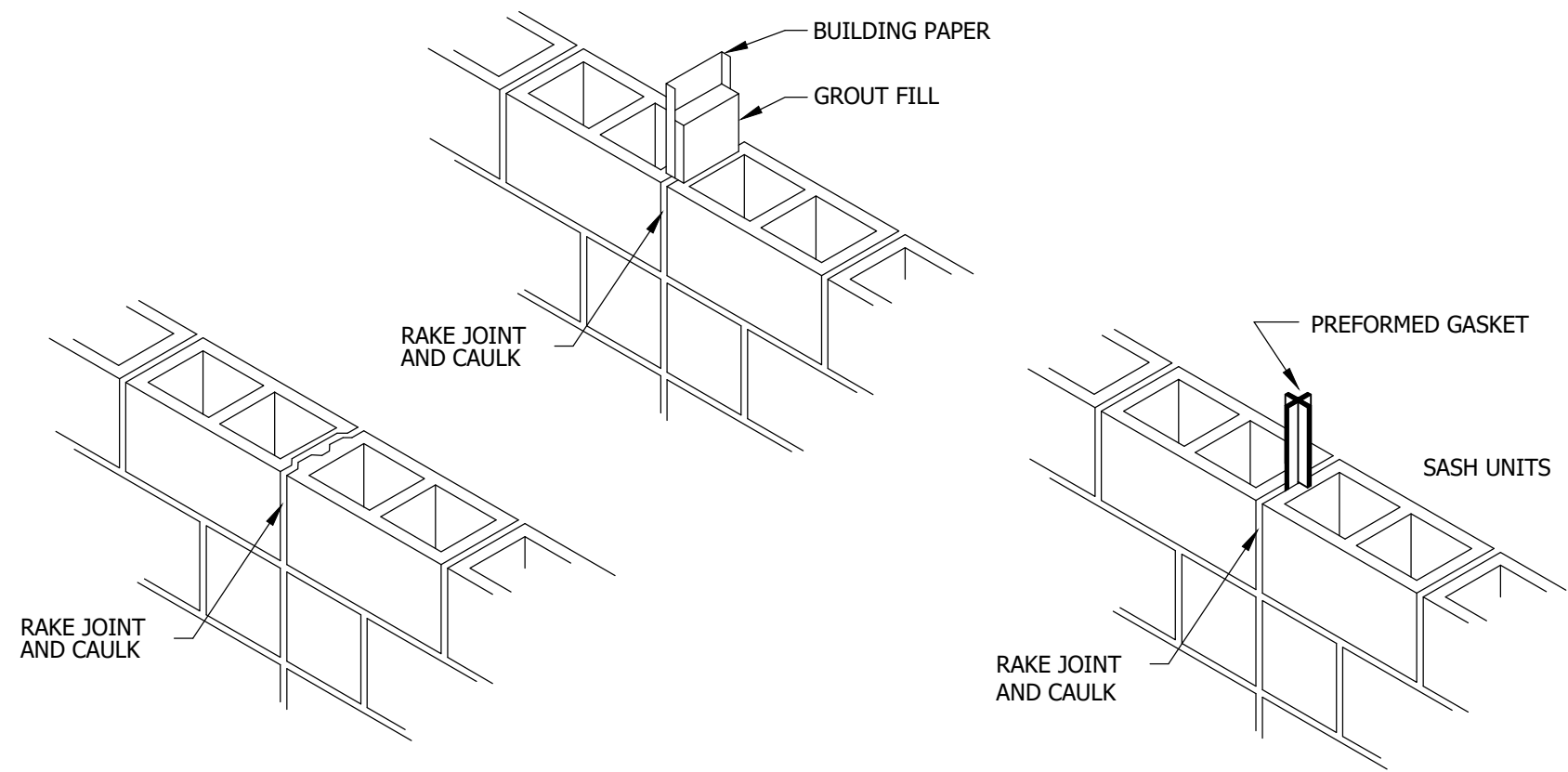
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FL REG. NO. 79067

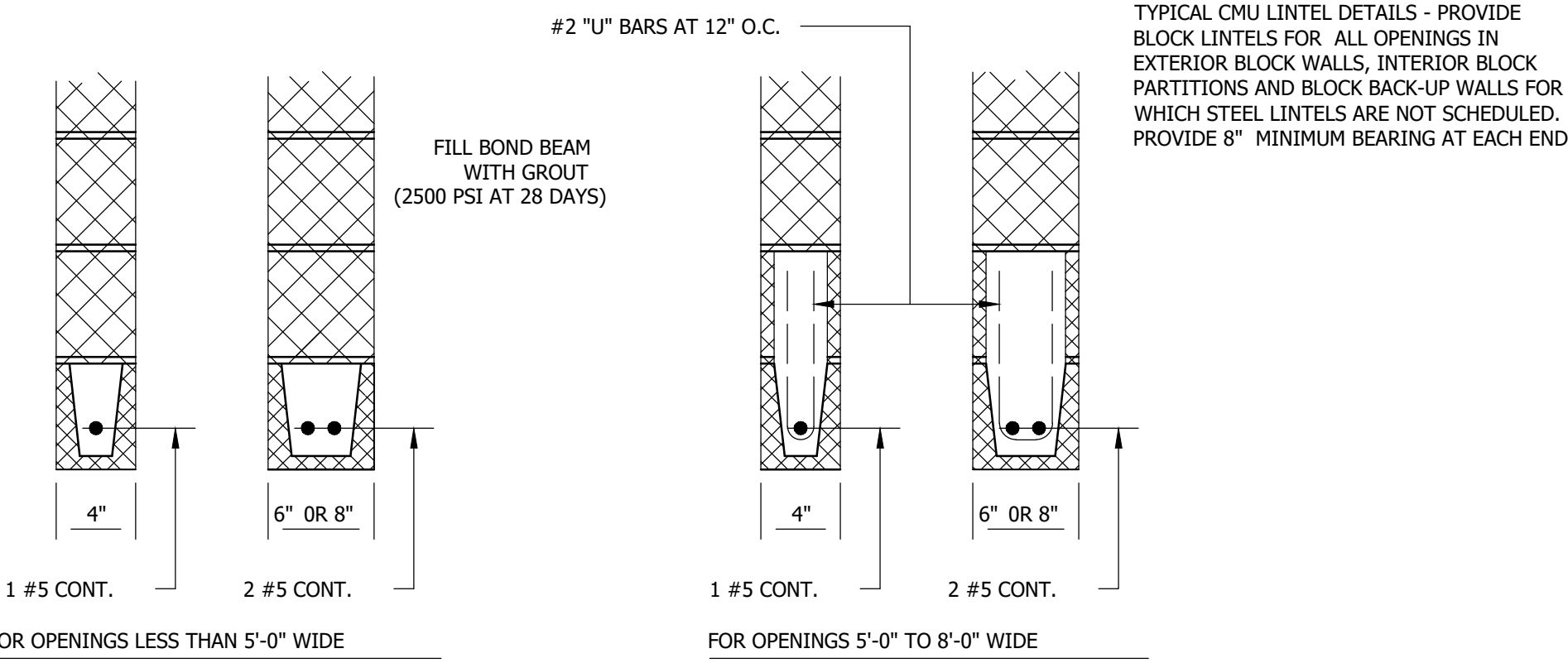
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
TRASH ENCLOSURE SECTION AND DETAILS

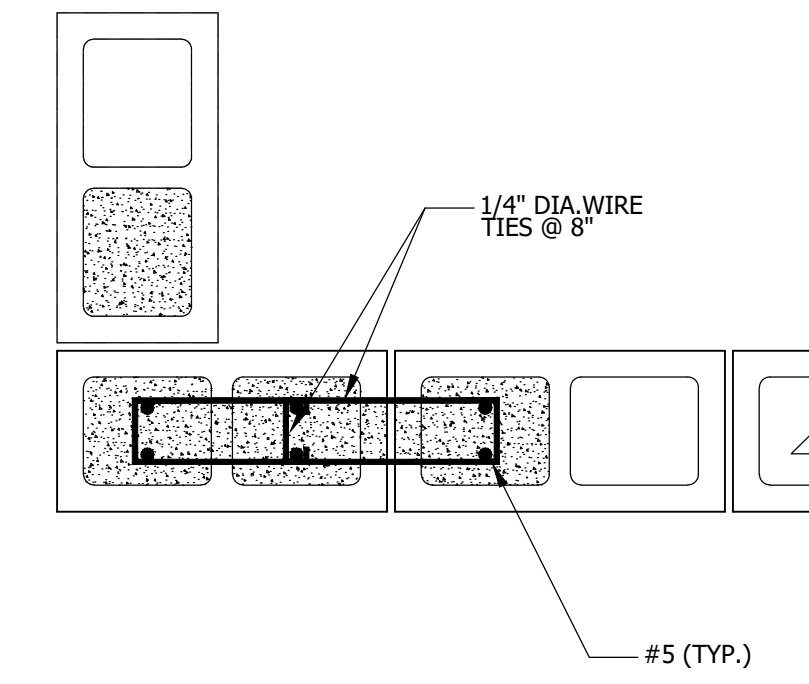
Project No. 170-95.00
Drawn By: **SD1.3**
Checked By:



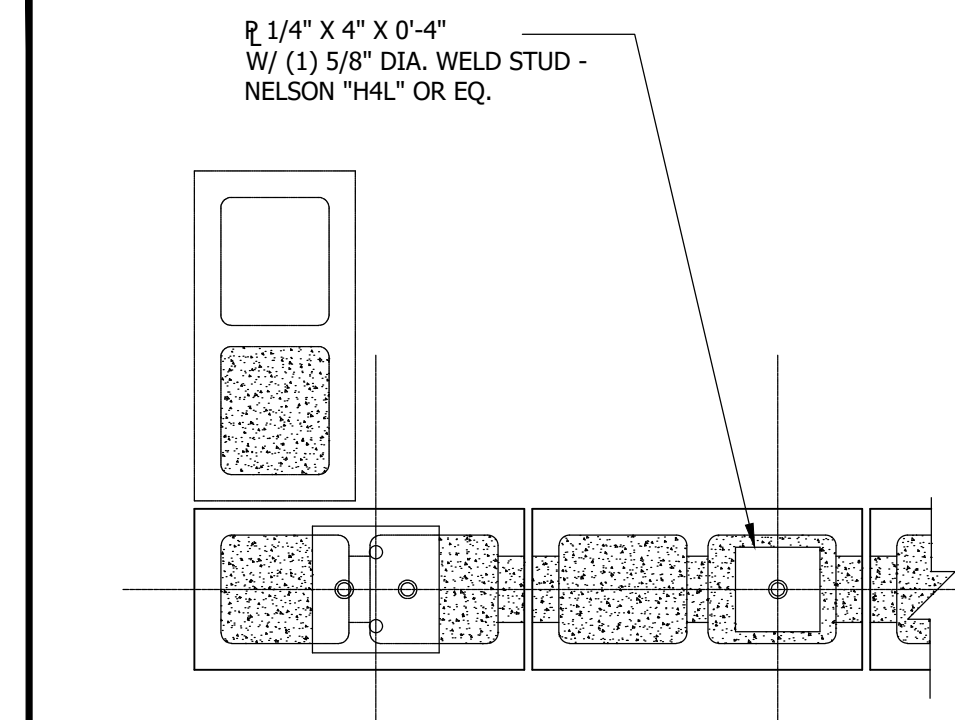
CMU CONTROL JOINT OPTIONS SCALE N.T.S. 6



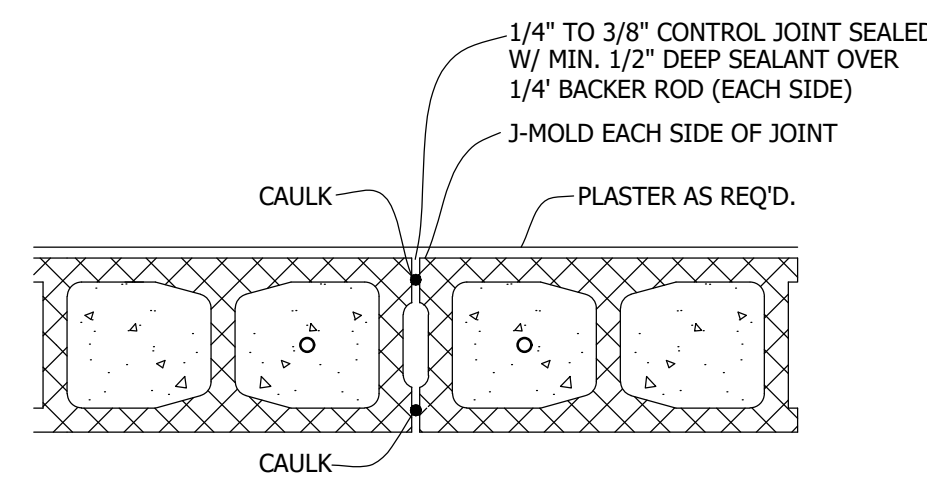
TYPICAL CMU LINTEL DETAILS SCALE N.T.S. 5



WALL PILASTER SCALE N.T.S. 4



SECTION AT WALL CORNER SCALE N.T.S. 3



NOTE: SEALANT REQUIRED ON BOTH FACES OF CMU WALL AT CONTROL JOINTS (TYP.)

DETAIL OF CONTROL JOINT FINISH SCALE N.T.S. 2

FINISH SCHEDULE

- FF-1 CONCRETE FLOOR
- WF-1 INTERIOR FINISH - CMU BLOCK WALL TO BE PAINTED SHERWIN WILLIAM 6364: EGGWHITE
- WF-2 CREATIVE FAUX STONE AS PER OWNER'S SPECIFICATIONS
- PT-1 SHERWIN WILLIAM 6115 (TOTALLY TAN)

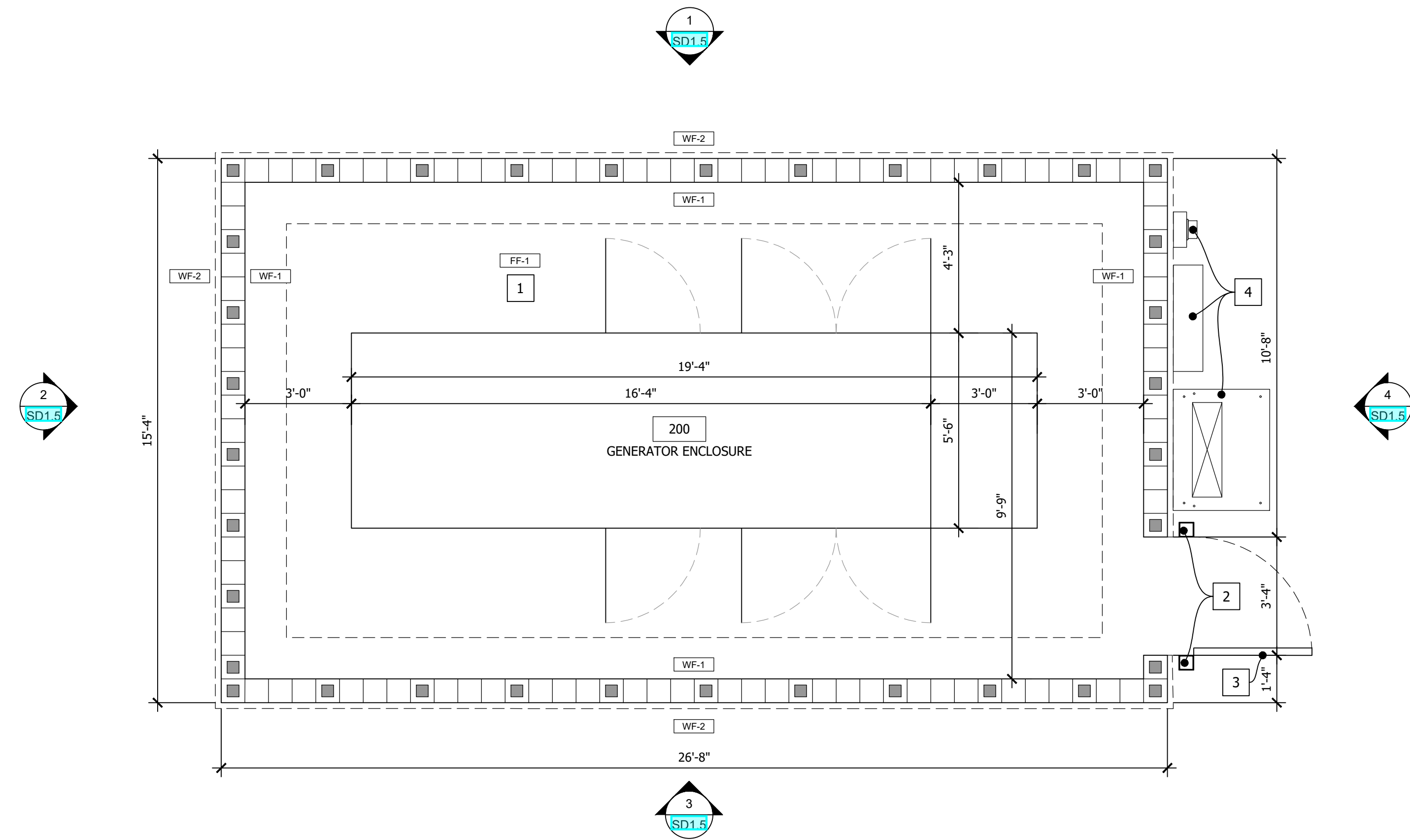
GENERAL NOTES:

1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
2. GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
3. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
4. THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE, UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
7. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
8. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
9. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
10. UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
11. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE OWNER'S VENDORS ON SITE DURING CONSTRUCTION.
19. ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.

PLAN NOTES: X

- 1 FLOOR SLOPE = 1/2"
- 2 5"x5"x.25 THICK STEEL POST FILLED WITH CONCRETE AND STEEL WELDED CAP. SLOPE. PAINTED TO MATCH ADJACENT SURFACES
- 3 GATE REFER TO EXTERIOR ELEVATIONS AND DETAILS GATE AND HINGE BY JIMCO MANUFACTURING
- 4 ELECTRICAL AUTOMATIC TRANSFER SWITCH, CURRENT TRANSFORMER CABINET, AND METER BOX.

NOTE: REFER TO CIVIL DRAWINGS FOR SLAB DETAILS



GENERATOR ENCLOSURE FLOOR PLAN SCALE 3/8" = 1'-0" 1

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1	ISSUE FOR PERMIT	03/12/2023

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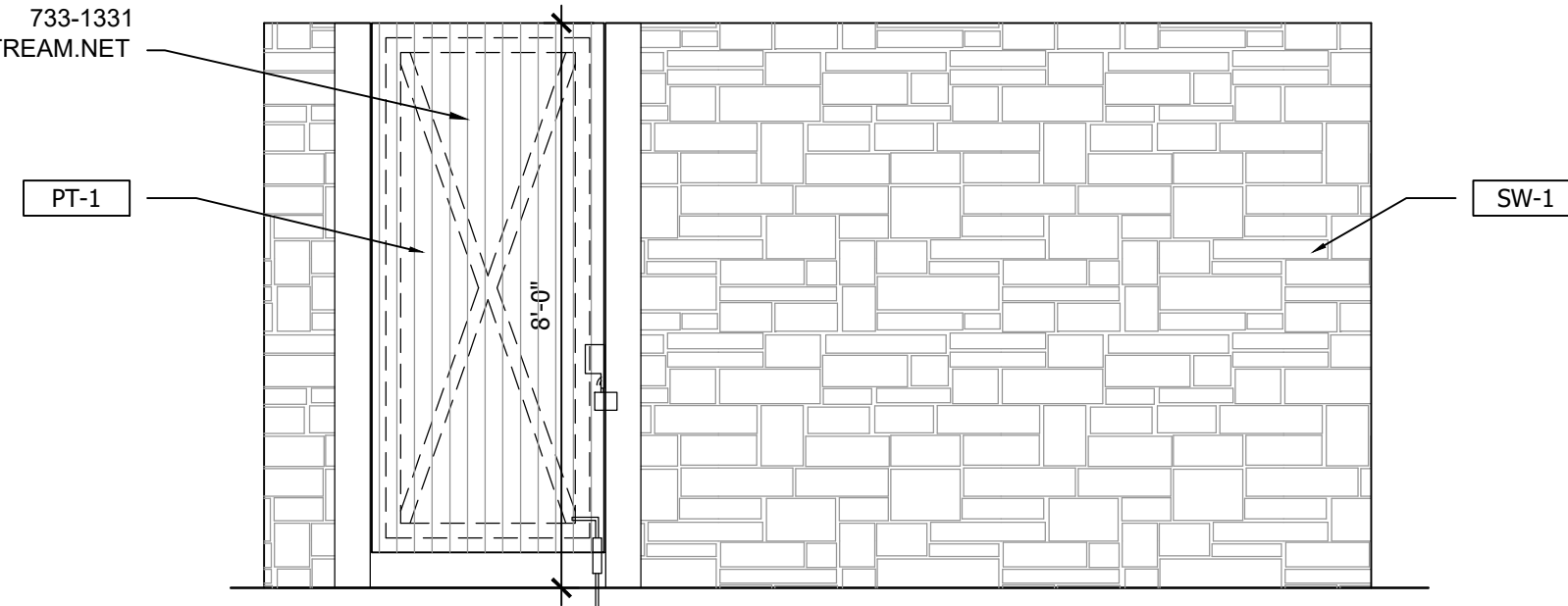
NISIT SAPPARKHAO, P.E.
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 Date

Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
 NWC I-10 AND HWY 331
 DEFUNIAK SPRINGS, FL

Sheet Title
GENERATOR ENCLOSURE FLOOR PLAN AND DETAILS

Project No. 170-95.00
 Drawn By: SD1.4
 Checked By:

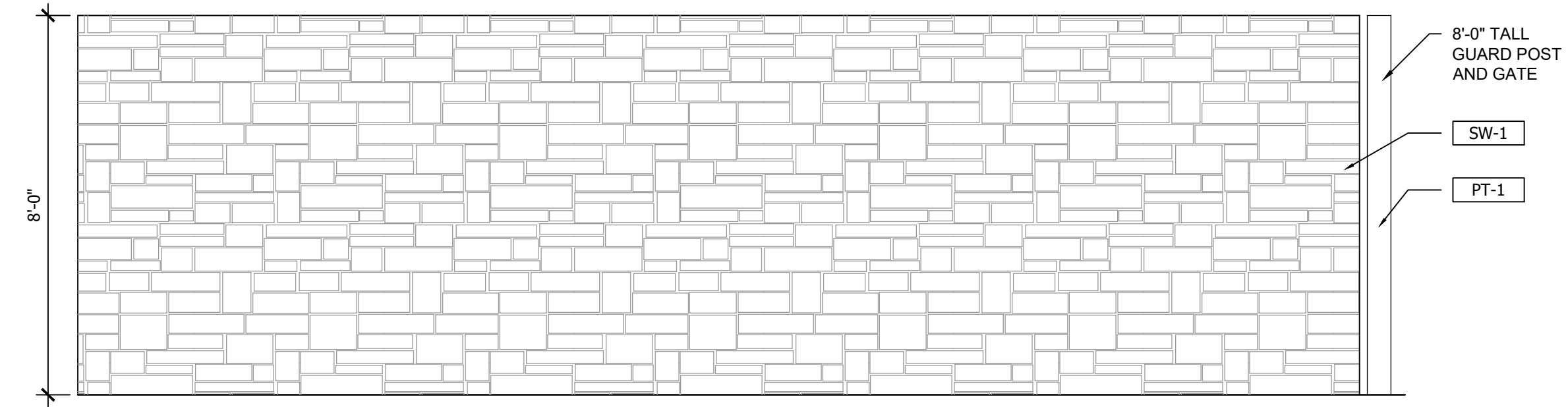
GATE AND HINGE BY
FALCON MANUFACTURING
733-1331
FALCONMX6MFG@WINDSTREAM.NET



GENERATOR ENCLOSURE SIDE ELEVATION

SCALE
3/8" = 1'-0"

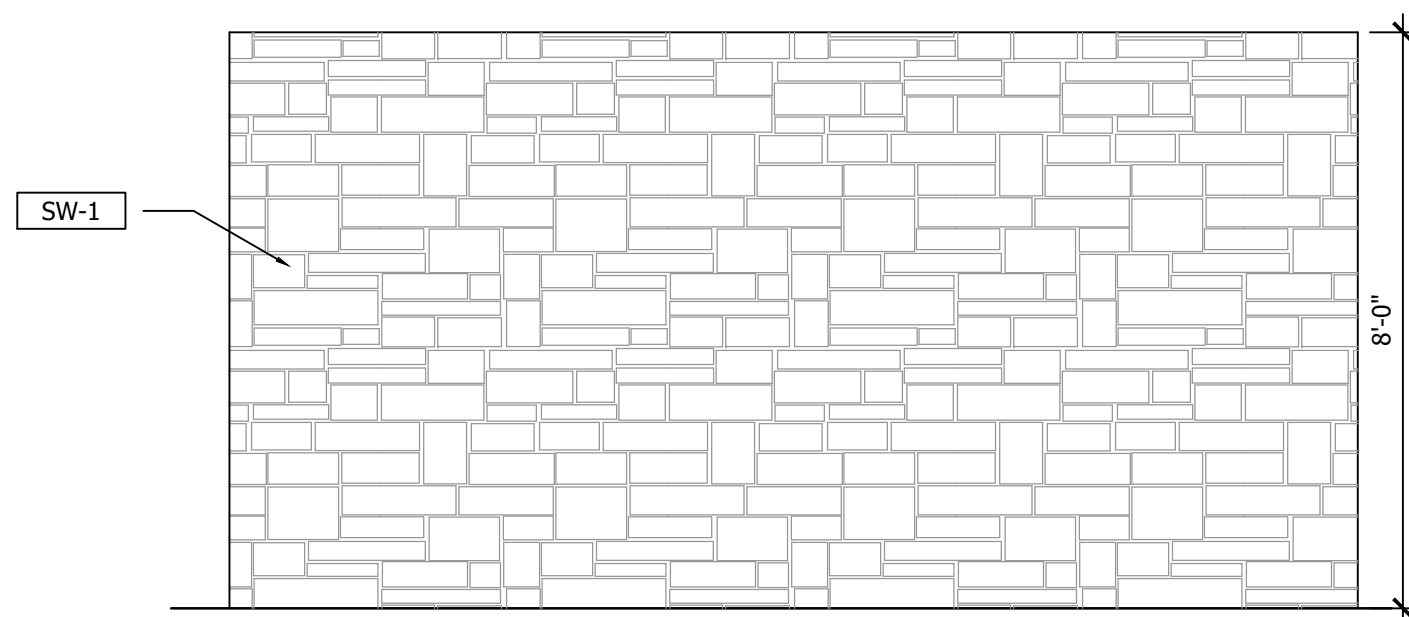
4



GENERATOR ENCLOSURE REAR ELEVATION

SCALE
3/8" = 1'-0"

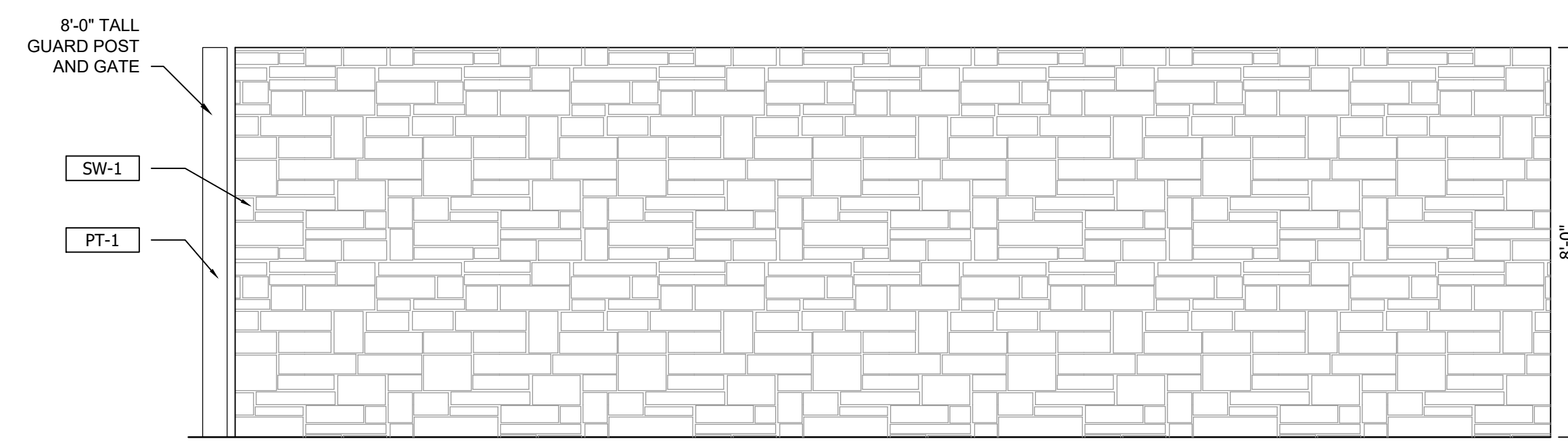
3



GENERATOR ENCLOSURE SIDE ELEVATION

SCALE
3/8" = 1'-0"

2



GENERATOR ENCLOSURE FRONT ELEVATION

SCALE
3/8" = 1'-0"

1

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Sheet Title
**GENERATOR ENCLOSURE
EXTERIOR ELEVATIONS**

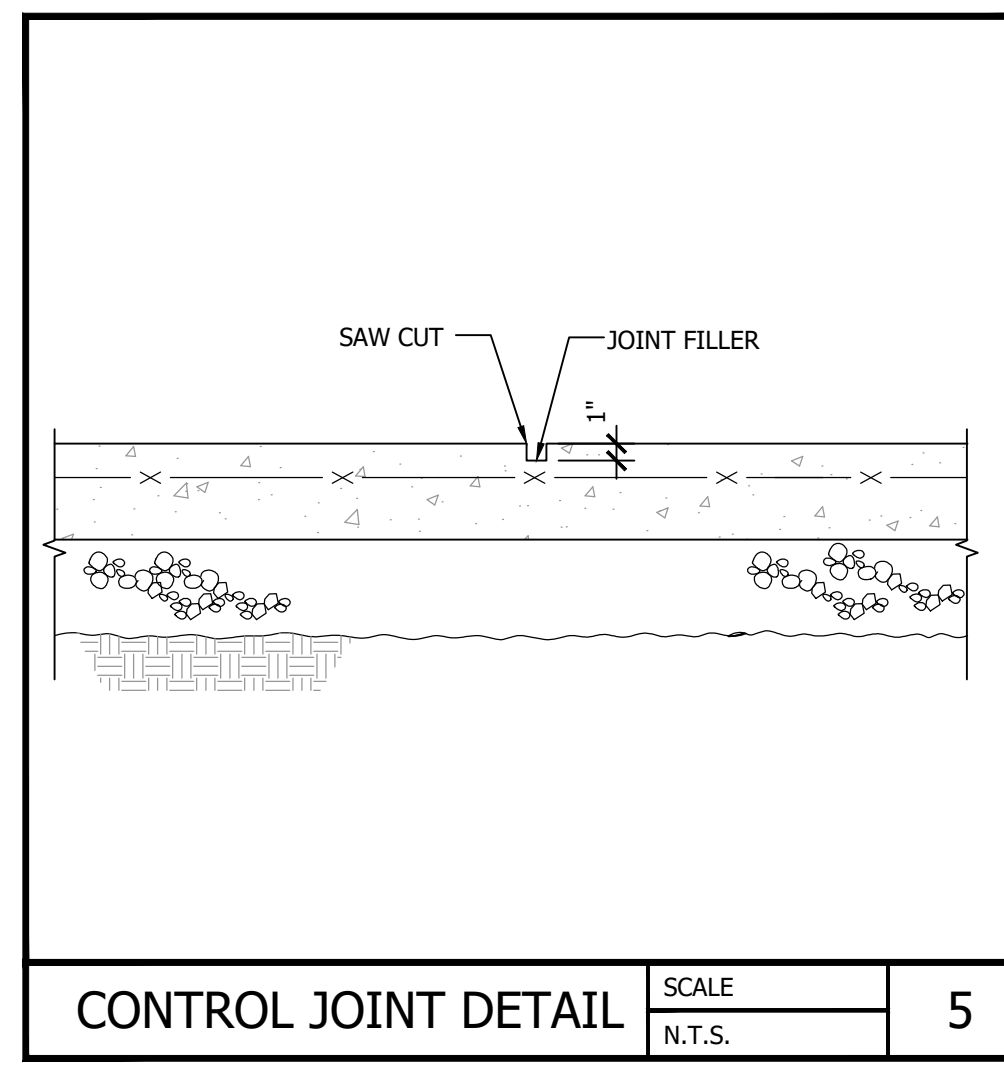
Project No.
170-95.00

Drawn By:

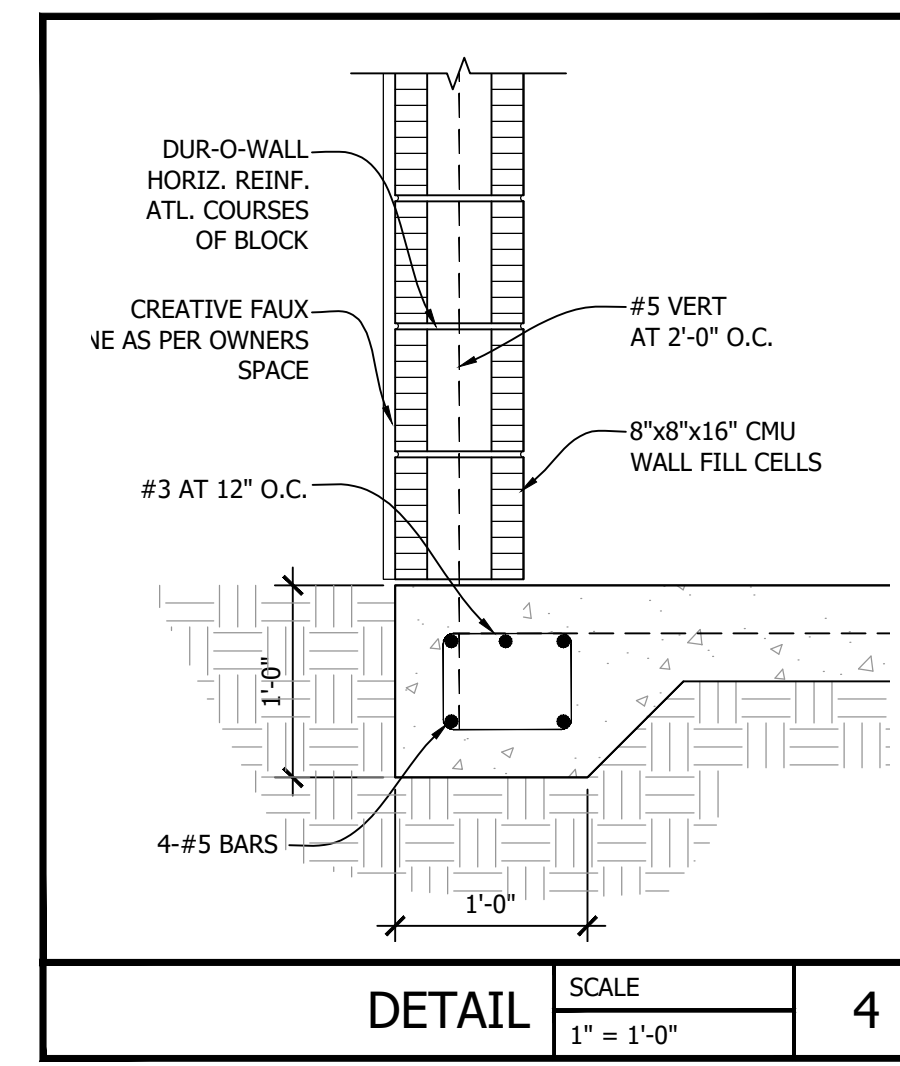
Checked By:

Sheet

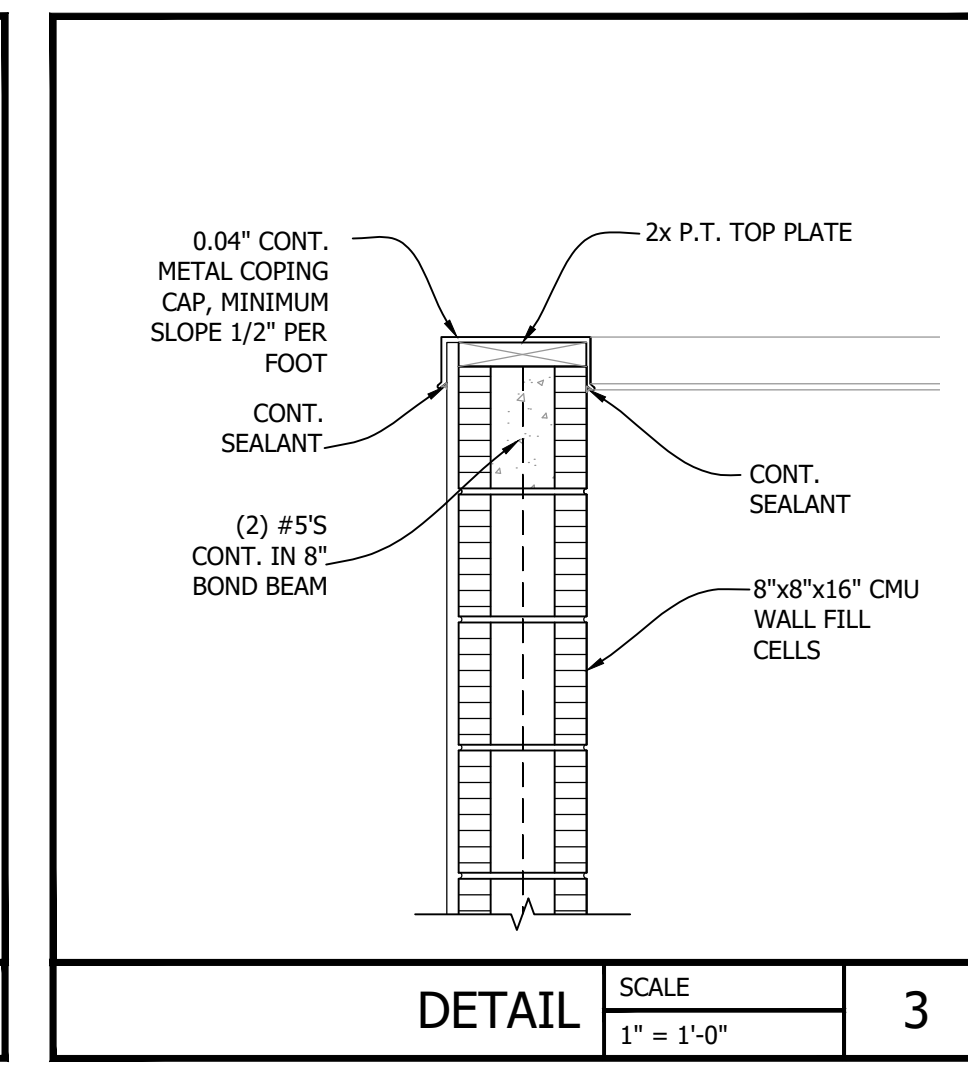
SD1.5



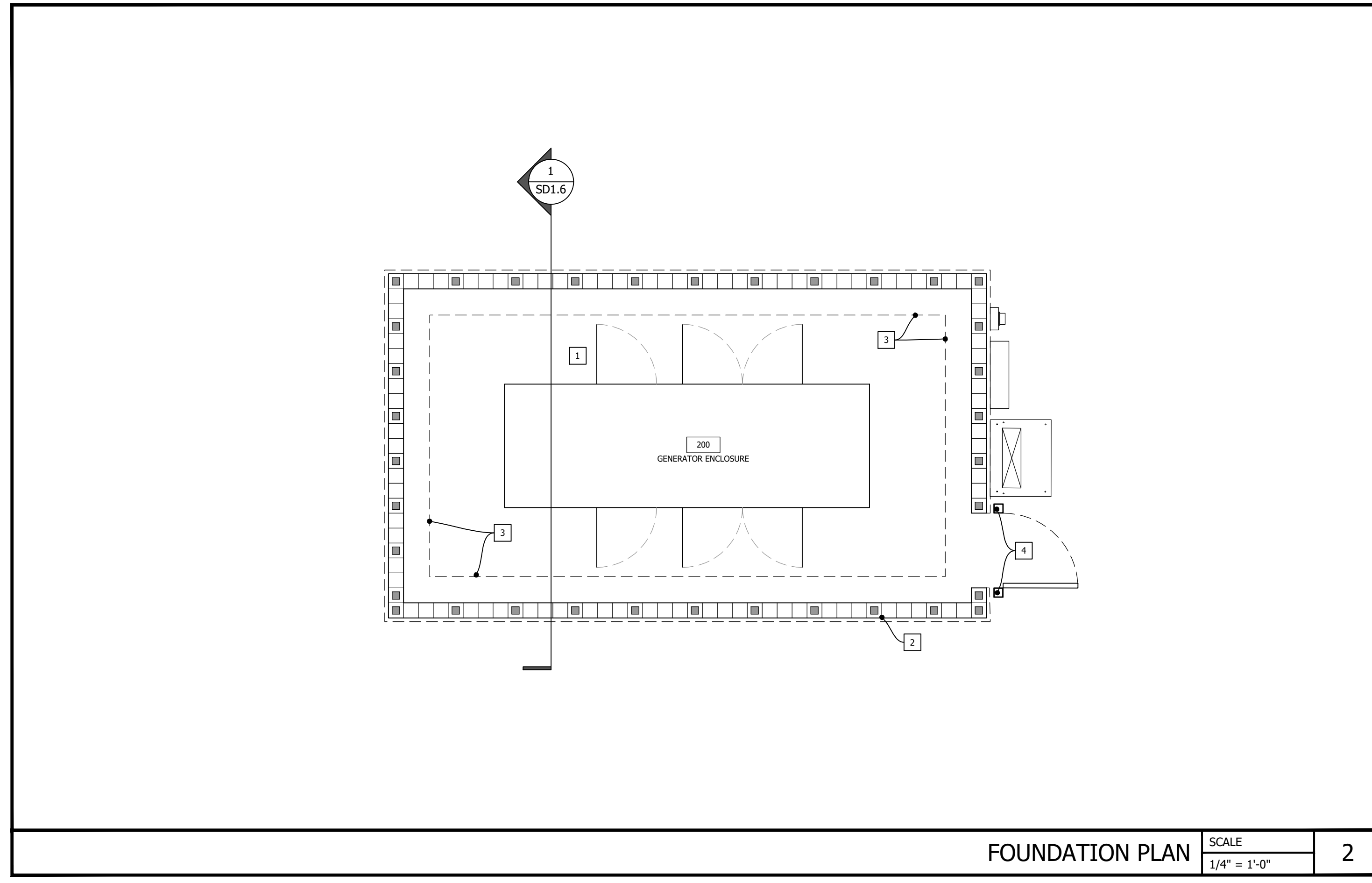
CONTROL JOINT DETAIL SCALE N.T.S. 5



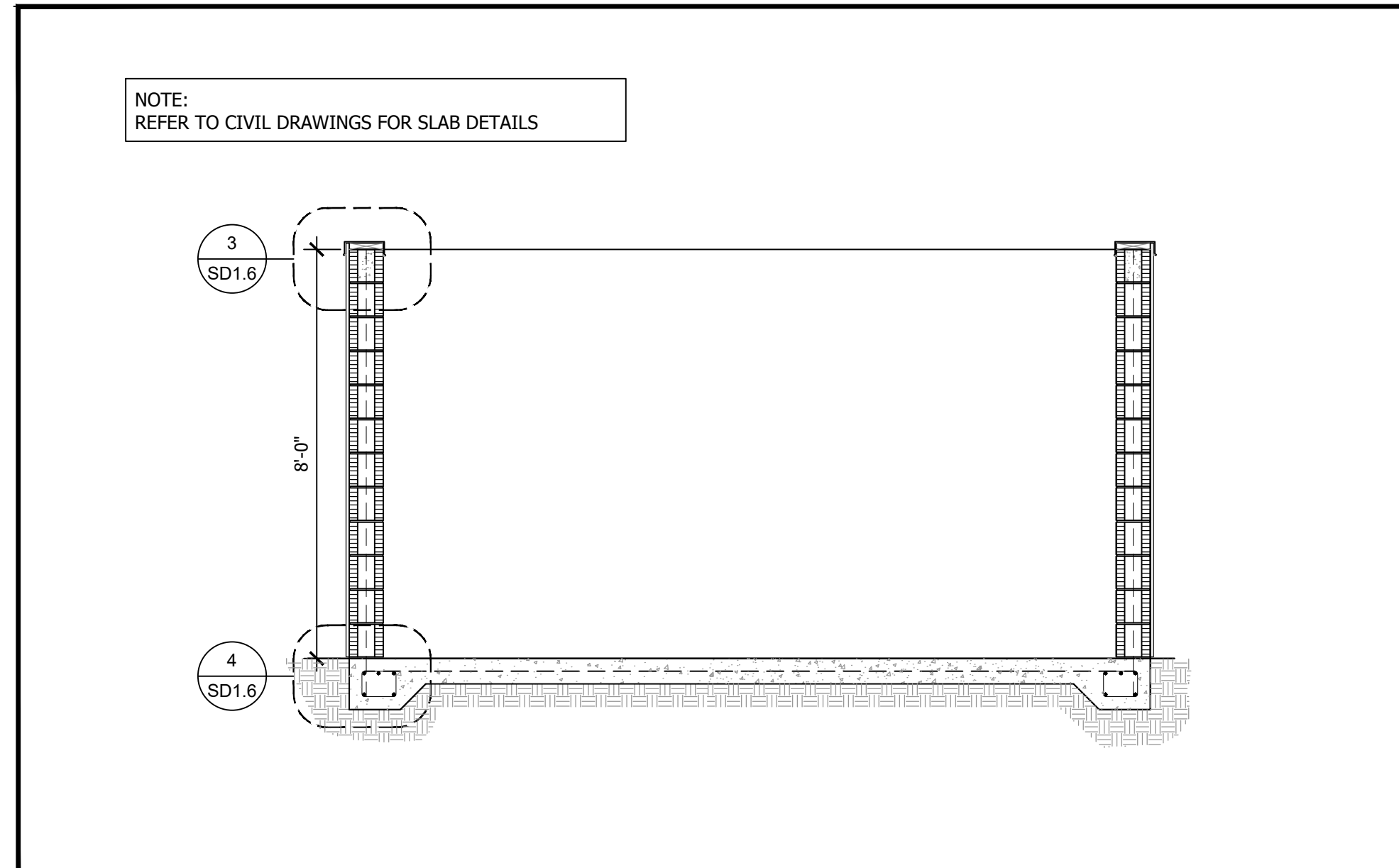
DETAIL SCALE 1" = 1'-0" 4



DETAIL SCALE 1" = 1'-0" 3



FOUNDATION PLAN SCALE 1/4" = 1'-0" 2

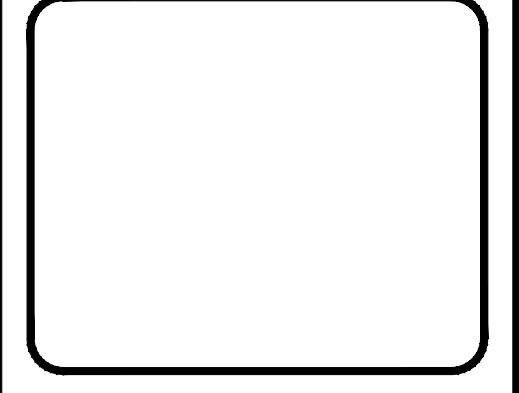


BUILDING SECTION SCALE 3/8" = 1'-0" 1

- GENERATOR ENCLOSURE FOUNDATION NOTES:**
- 1 6" SLAB ON GRADE WITH W/6"x6" W2.9xW2.9 W.W.F
 - 2 MASONRY FAUX STONE VENEER TO MATCH MAIN BUILDING ON 8" CONCRETE FILLED BLOCK WALL.
 - 3 TYPICAL WALL FOOTING 12"x12" CONT. WITH 2#5 BOTTOM REINF.
 - 4 REFER TO DETAIL 5 FOR STEEL COLUMN AND FOOTER DETAIL
 - 5 BOLLARD TYPE "B", REFER TO DETAIL THIS SHEET

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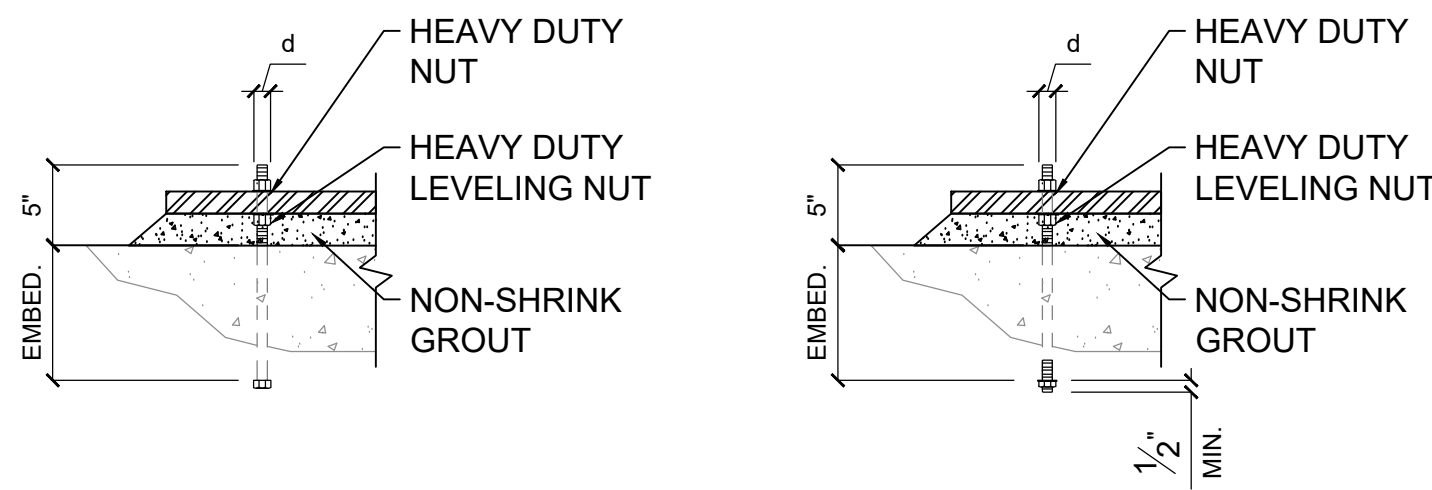
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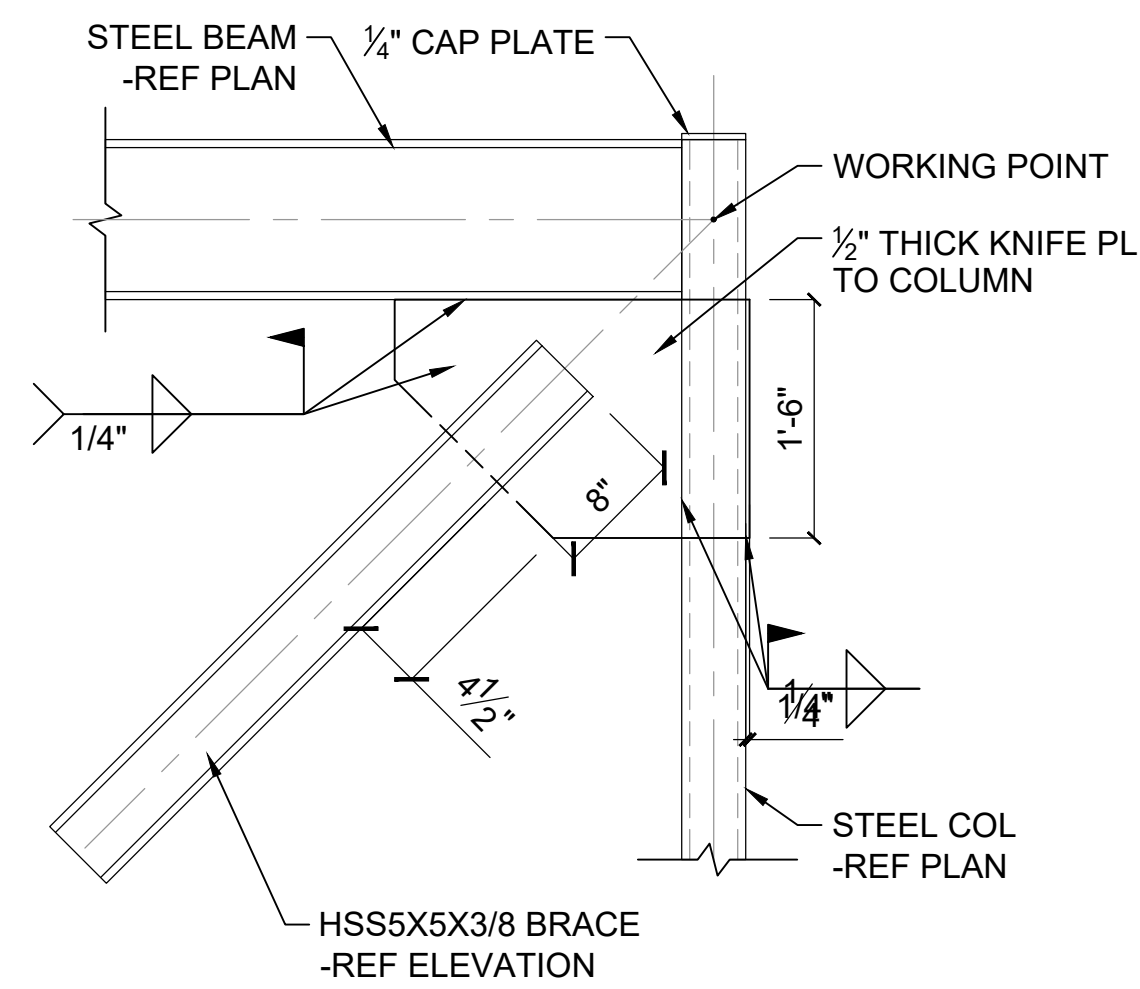
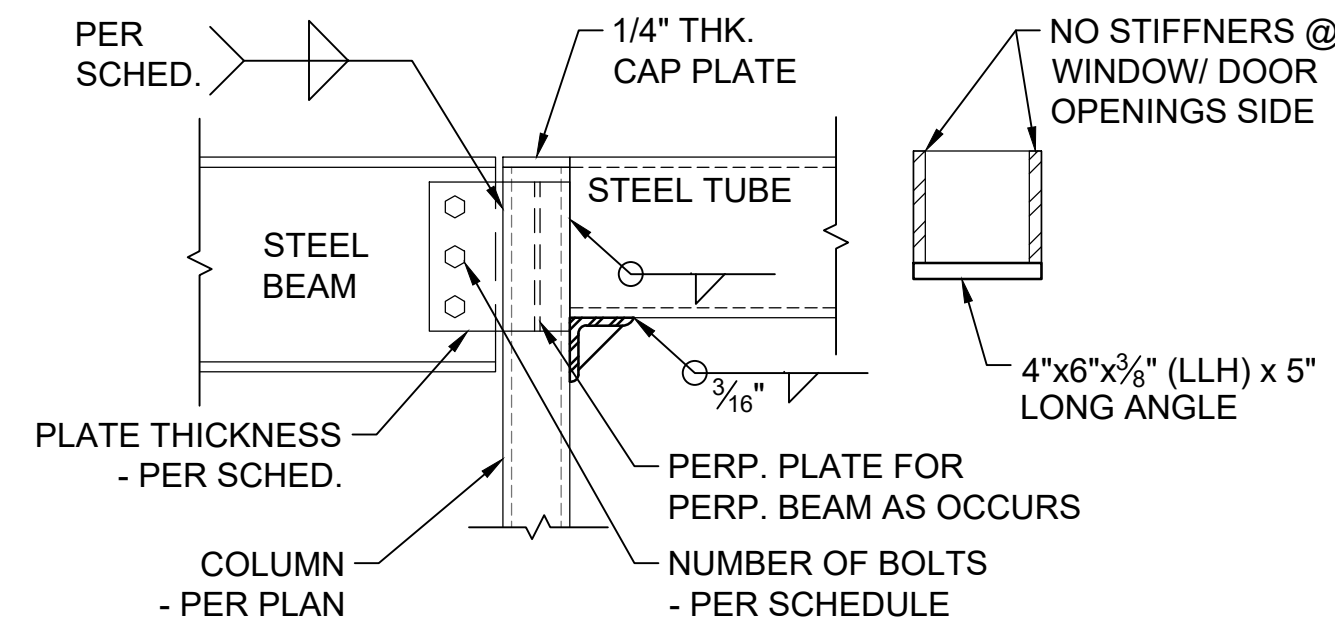
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
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Sheet Title
GENERATOR ENCLOSURE SECTION AND DETAILS

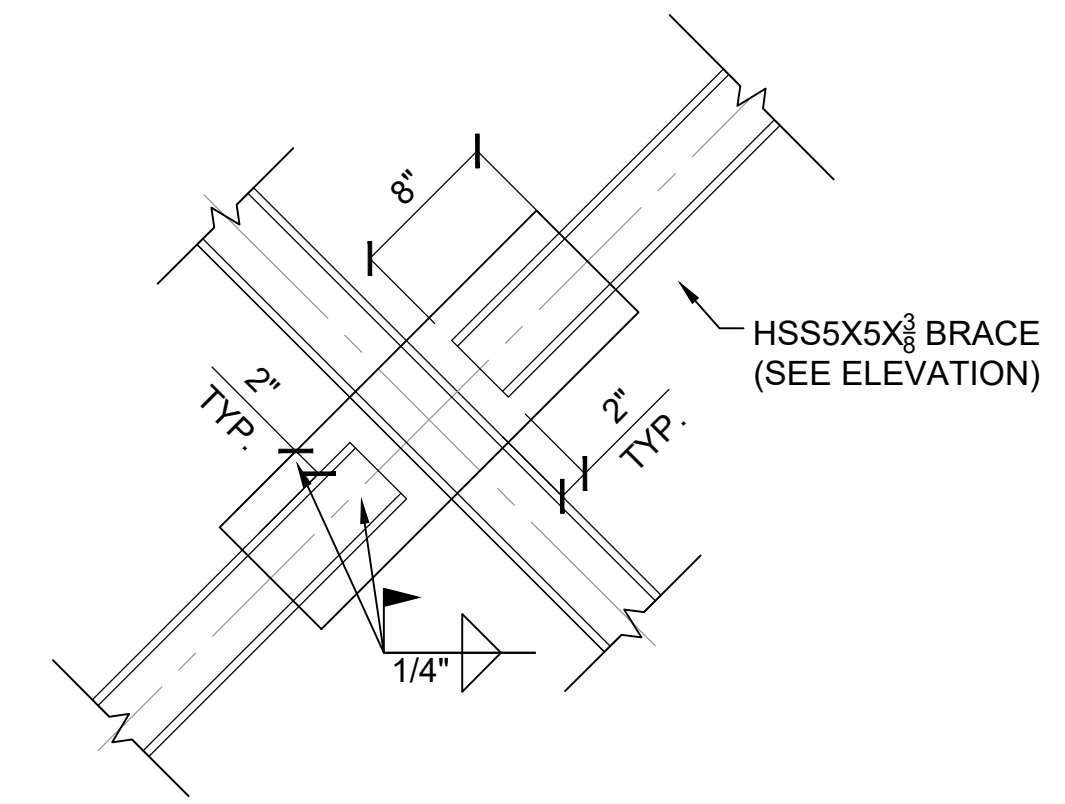
Project No. 170-95.00 Sheet
 Drawn By: SD1.6
 Checked By:



- NOTES:**
- REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
 - REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
 - ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
 - PROTECT ANCHOR RODS FROM DAMAGE.
 - ANCHOR SHALL BE SET SO AS NOT TO VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DRAWINGS BY MORE THAN THE FOLLOWING:
 - $\frac{1}{8}$ " CENTER TO CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
 - $\frac{1}{4}$ " CENTER TO CENTER OF ADJACENT ANCHOR RODS GROUPS.
 - ELEVATION OF THE TOP OF ANCHOR RODS $\pm \frac{1}{2}$ "
 - MAXIMUM ACCUMULATION OF $\frac{1}{4}$ " PER HUNDRED FEET ALONG THE ESTABLISHED COLUMN LINE.
 - $\frac{1}{4}$ " FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
 - REFERENCE AISC CODE FOR STANDARD PRACTICE FOR ADDITIONAL INFORMATION.
 - SET ANCHOR RODS PERPENDICULAR TO BEARING SURFACE UNLESS NOTED OTHERWISE.
 - PROVIDE MINIMUM 1" NON-SHRINK GROUT AT ALL BASE PLATES.



- NOTES:**
- SEE PLAN AND SCHEDULE FOR MEMBER SIZES.
 - SLOT TUBE AROUND GUSSET PLATE.



TYP. ANCHOR ROD DETAIL

SCALE NOT TO SCALE 1

TYP. BEAM TO COLUMN CONNECTION

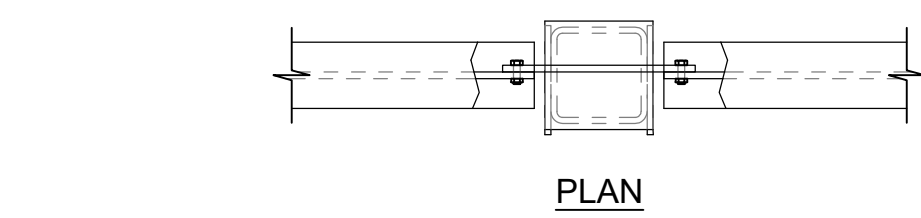
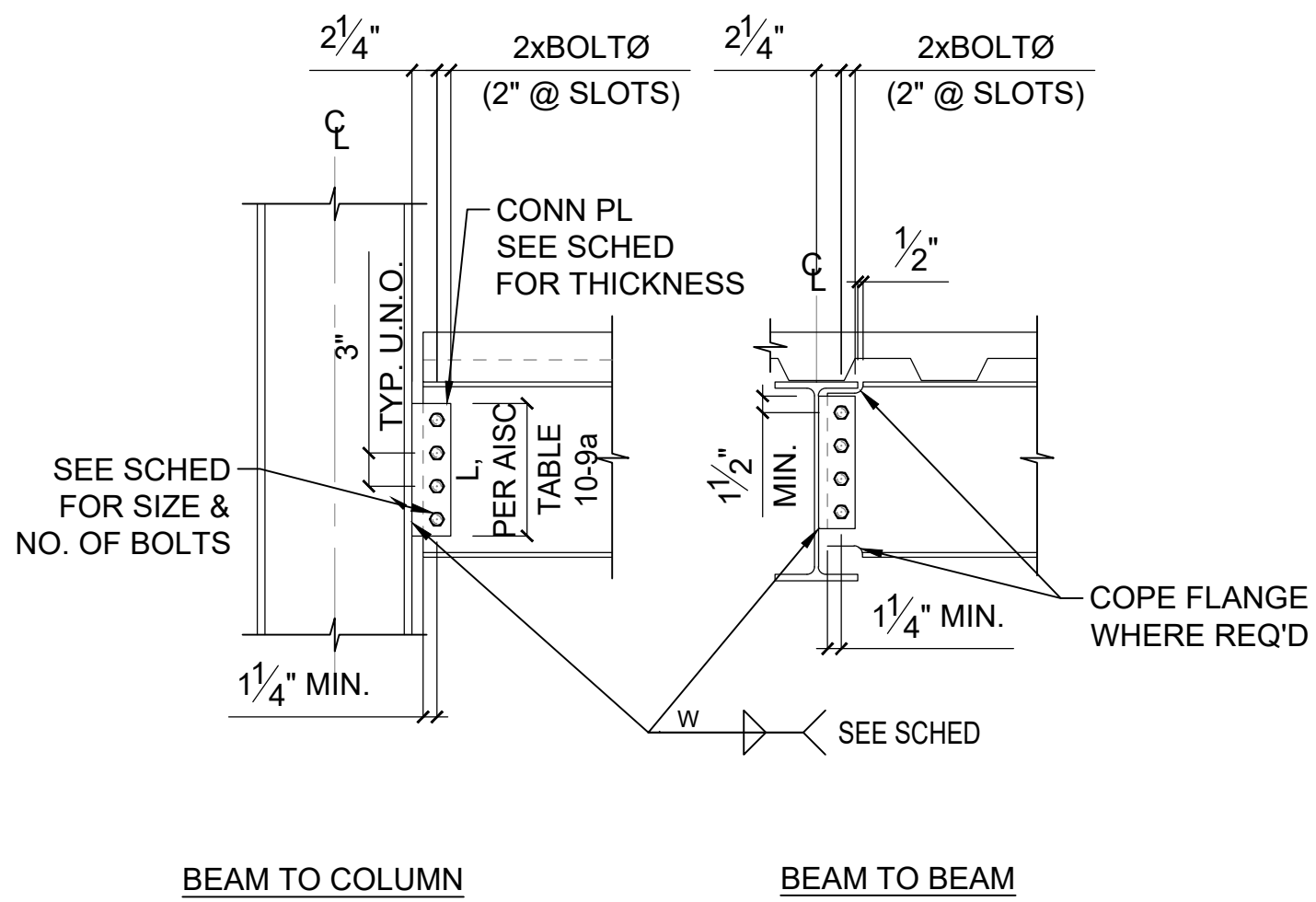
SCALE NOT TO SCALE 2

ROOF CONNECTION X-BRACED FRAME

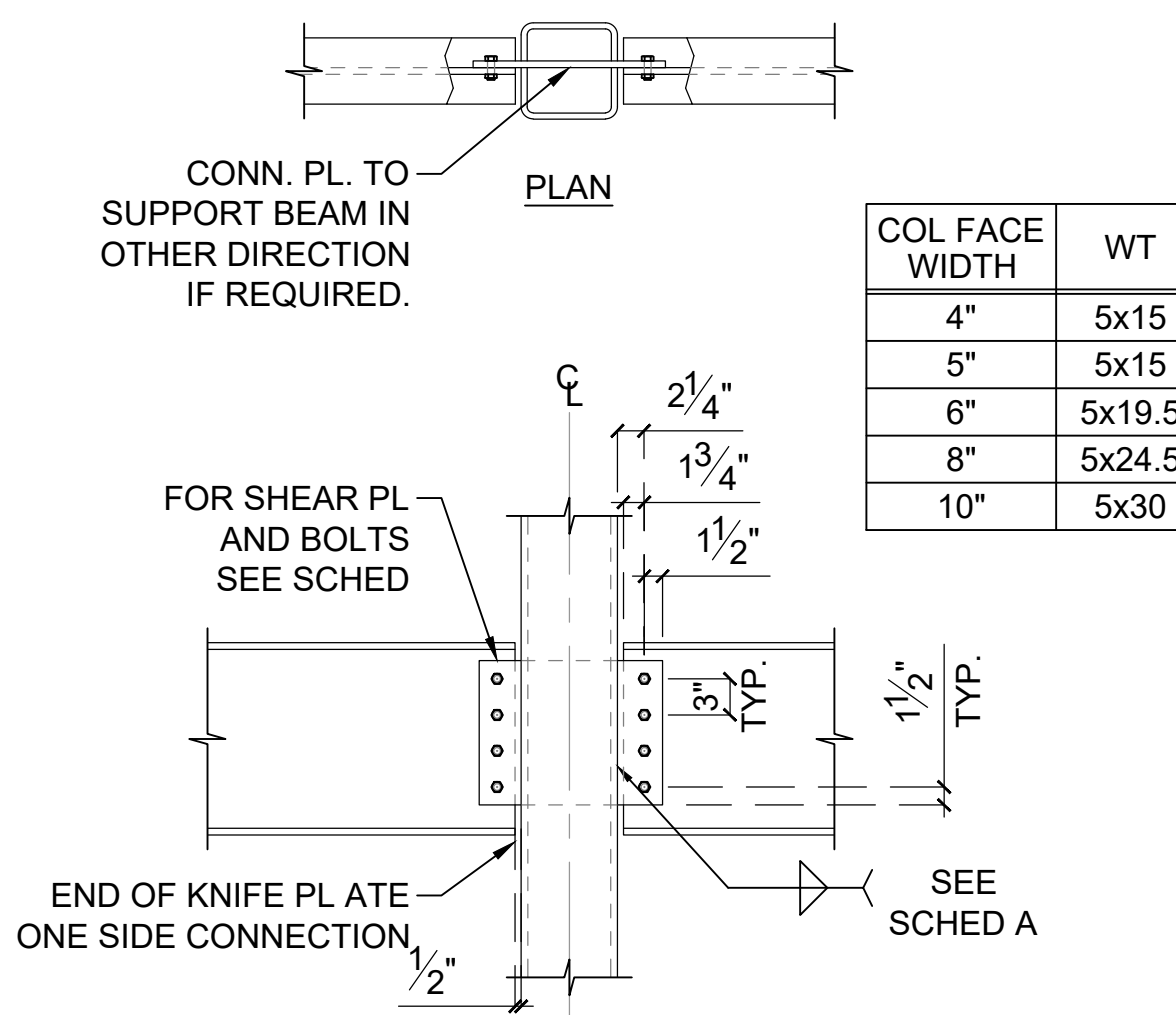
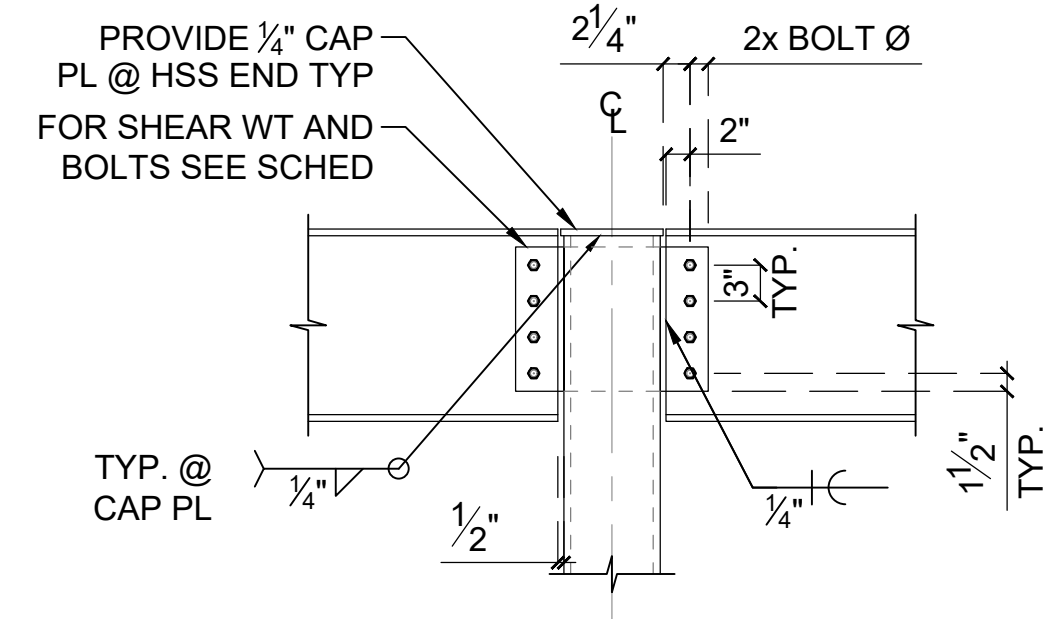
SCALE NOT TO SCALE 3

X-BRACING INTERSECTION

SCALE NOT TO SCALE 4



COL FACE WIDTH	WT
4"	5x15
5"	5x15
6"	5x19.5
8"	5x24.5
10"	5x30



COL FACE WIDTH	WT
4"	5x15
5"	5x15
6"	5x19.5
8"	5x24.5
10"	5x30

STANDARD BOLTED CONNECTION SCHEDULE "A"			
BEAM SIZE	NUMBER & SIZE OF BOLTS REQ'D	PLATE THICKNESS	WELD SIZE (W)
W6, C6, C7	(2) $\frac{3}{4}$ " \varnothing @ 2" GA	$\frac{1}{4}$ "	$\frac{3}{16}$ "
W8, C8, C9	(2) $\frac{3}{4}$ " \varnothing	$\frac{1}{4}$ "	$\frac{3}{16}$ "
W10, C10	(2) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "
W12, C12	(3) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "
W14, C15	(3) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "
W16	(4) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "
W18	(4) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "
W21	(5) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "
W24	(6) $\frac{3}{4}$ " \varnothing	$\frac{3}{8}$ "	$\frac{1}{4}$ "

- NOTES:**
- SHORT SLOTTED HOLES MAY BE USED AT ALL COLUMN CONNECTIONS AS AN OPTION. FOR 10, 11 & 12 BOLT GROUPS, USE SHORT SLOTTED HOLES AT CONNECTIONS TO COLUMNS.
 - FOR BEAM TO COLUMN WEB CONNECTION AT W14 & SMALLER COLUMNS, SEE EXTENDED PLATE DETAIL.

STANDARD BOLTED BEAM CONNECTION

SCALE NOT TO SCALE 5

BEAM TO HSS COLUMN (TOP)

SCALE NOT TO SCALE 6

BEAM TO HSS COLUMN SECTION

SCALE NOT TO SCALE 7

TYP. POST ON BEAM

SCALE NOT TO SCALE 8

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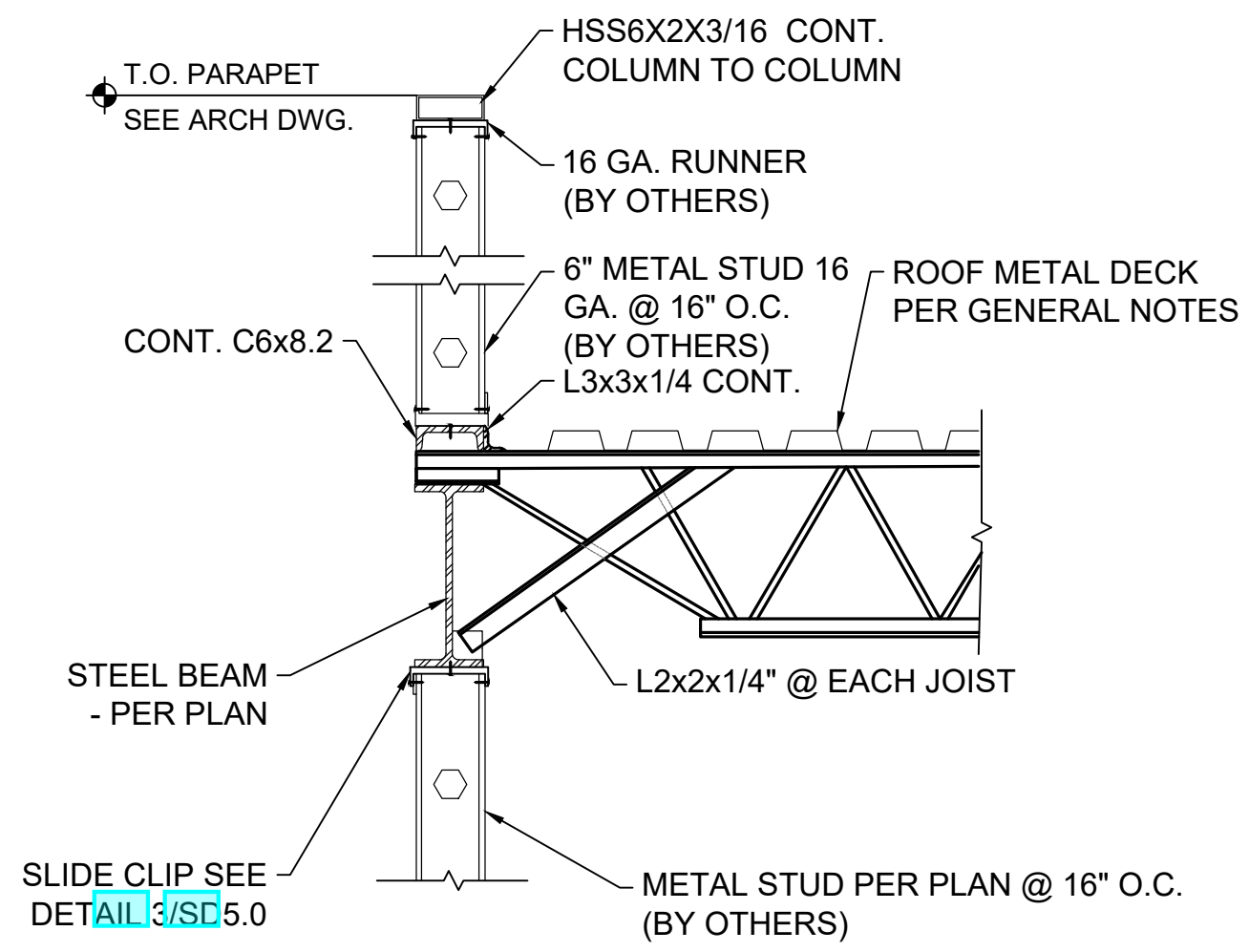
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
STEEL FRAMING DETAILS

Project No.
170-95.00

Sheet
SD2.0

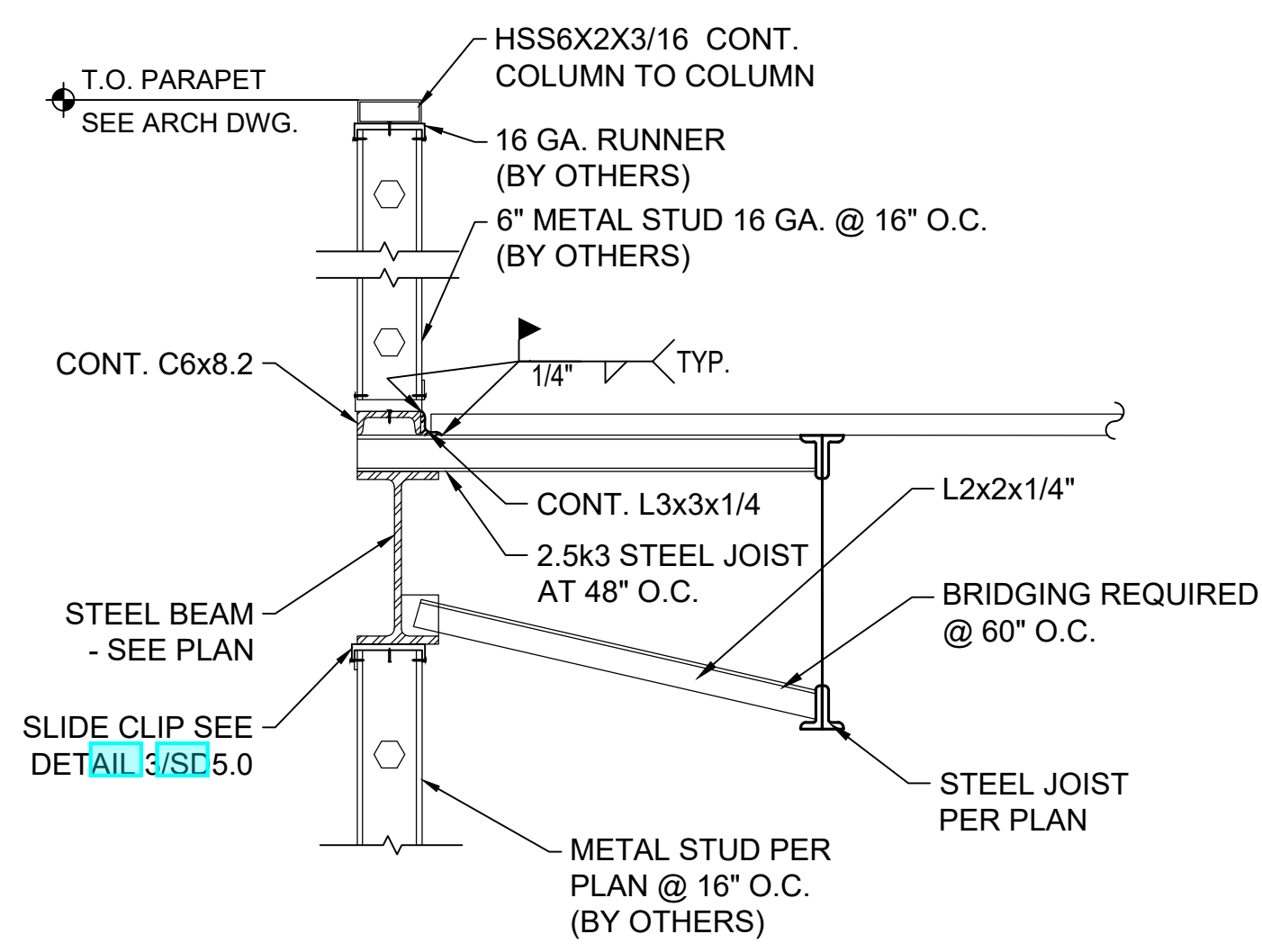
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STEEL JOIST TO STEEL BEAM

SCALE
NOT TO SCALE

1

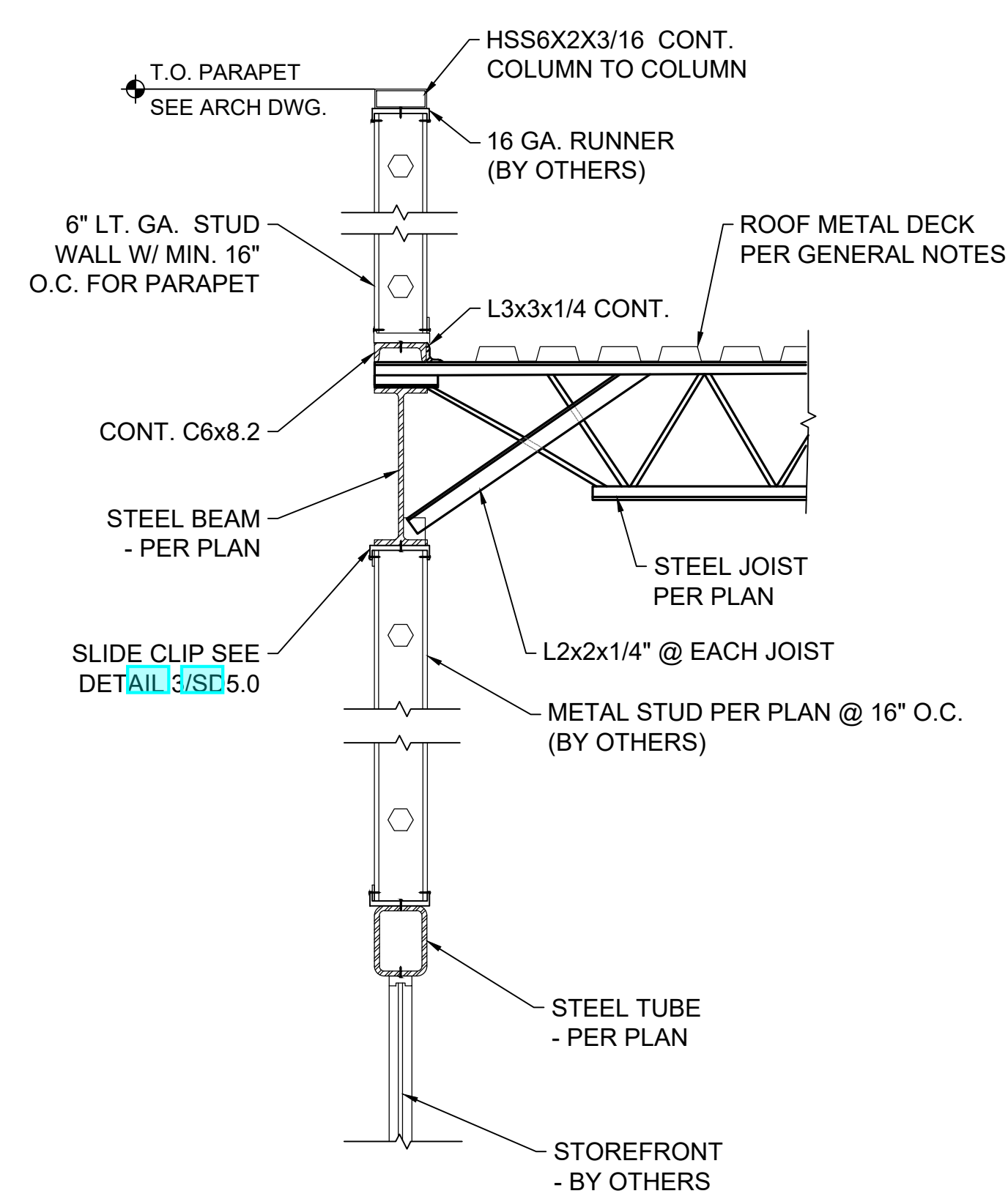


STEEL JOIST TO STEEL BEAM

SCALE
NOT TO SCALE

2

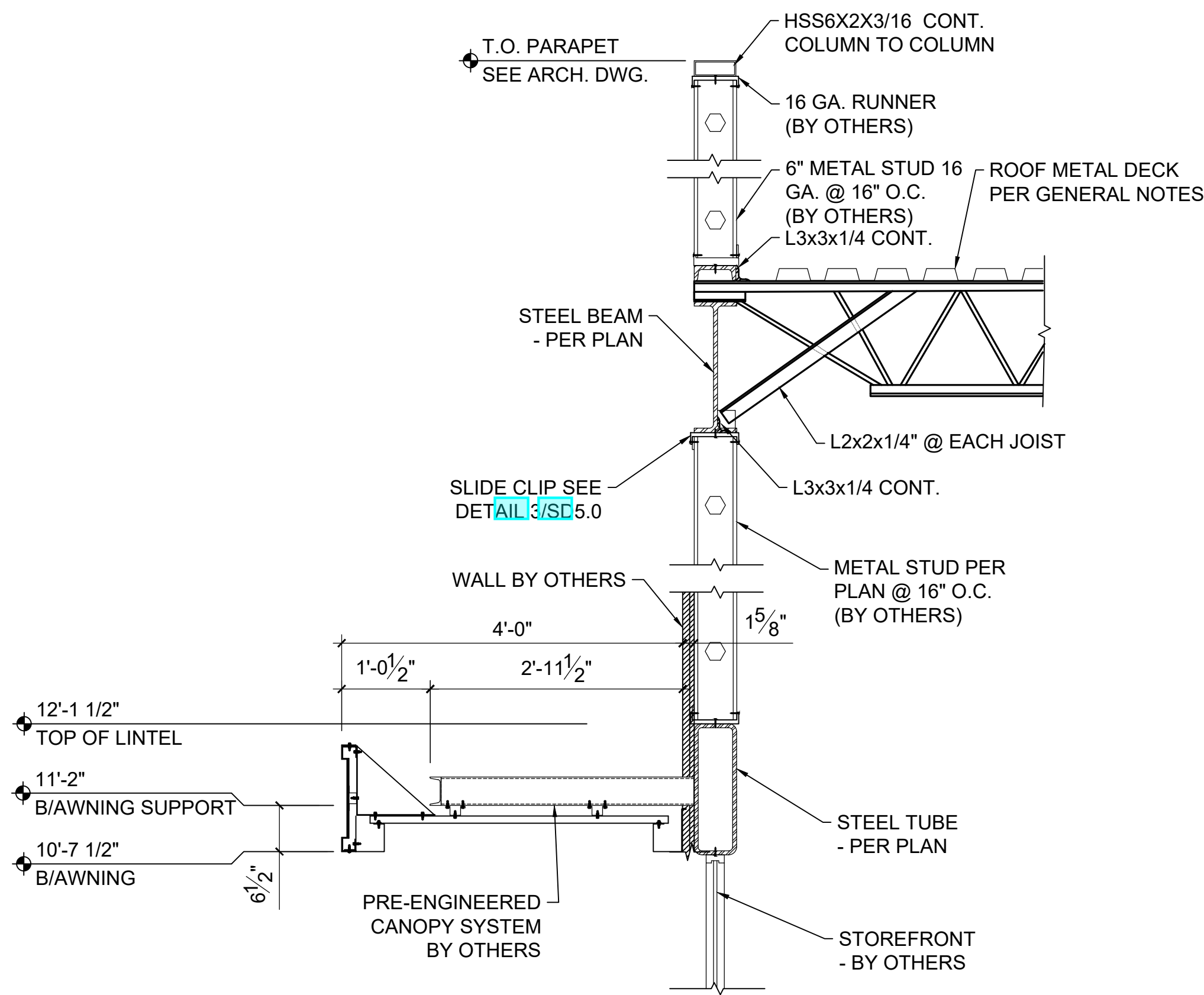
NOTE: ALTERNATE DESIGN:
USE WOOD ROOF TRUSSES IN LIEU OF STEEL JOISTS @ 2'-0" O.C. AND CONNECTIONS/HANGERS SHALL BE REVISITED UPON ROOF TRUSS SHOP DRAWINGS RECEIVAL.
USE (2)2X6 ON TOP OF STEEL BEAM AND CONNECT WITH 3/4" DIA. ANCHOR BOLTS AT EA. SIDE OF THE WEB AND @16" O.C.
DO NOT USE CONT. C6 INCASE OF WOOD JOISTS/TRUSSES USED.



STEEL JOIST TO STEEL BEAM

SCALE
NOT TO SCALE

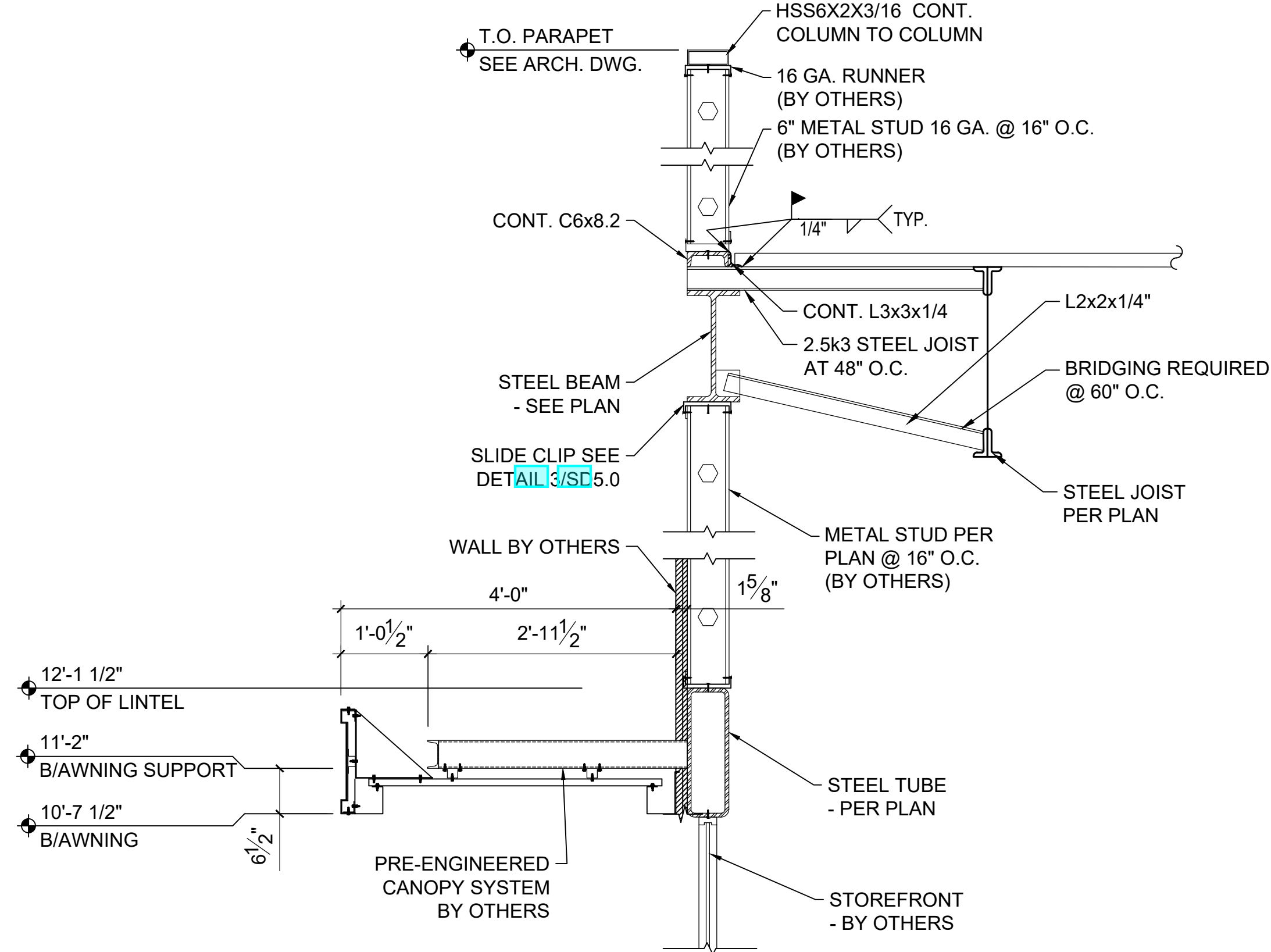
3



STEEL JOIST TO STEEL TUBE

SCALE
NOT TO SCALE

4



STEEL JOIST TO STEEL TUBE

SCALE
NOT TO SCALE

5

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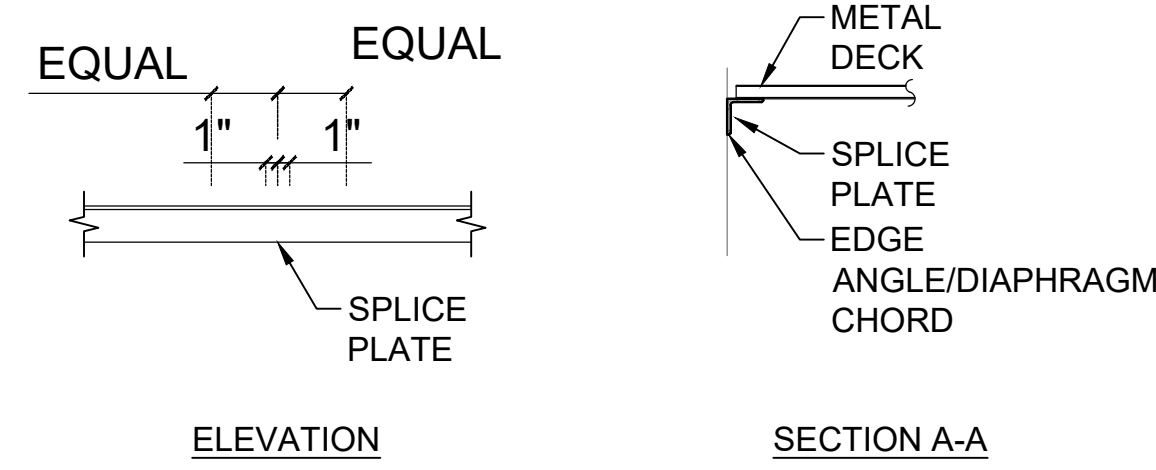
Project Name and Address
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Sheet Title
STEEL FRAMING DETAILS

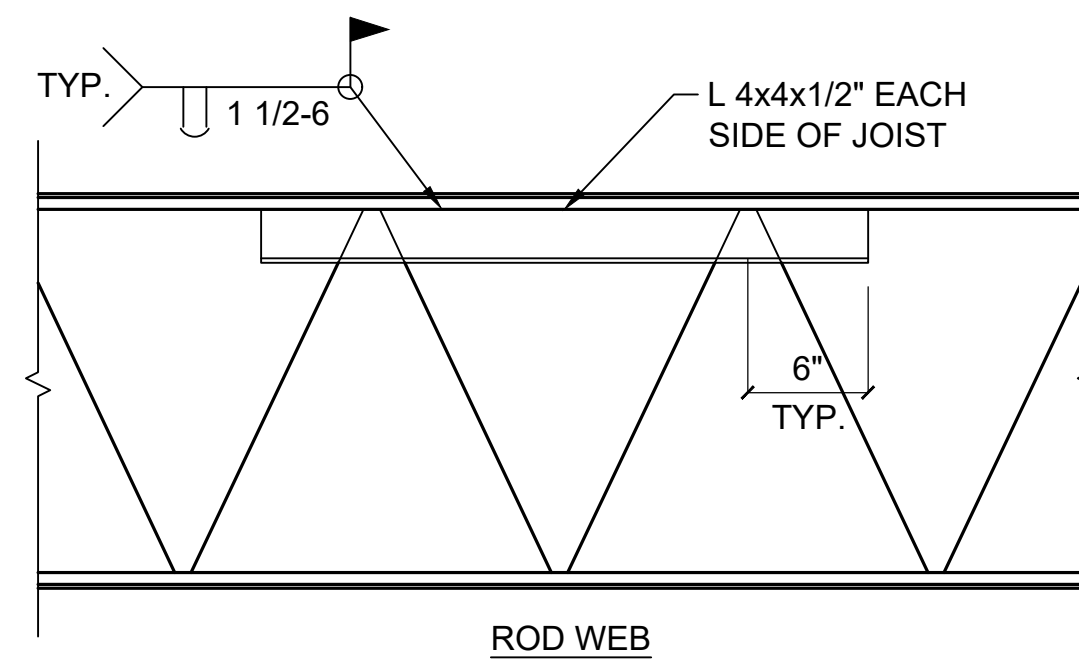
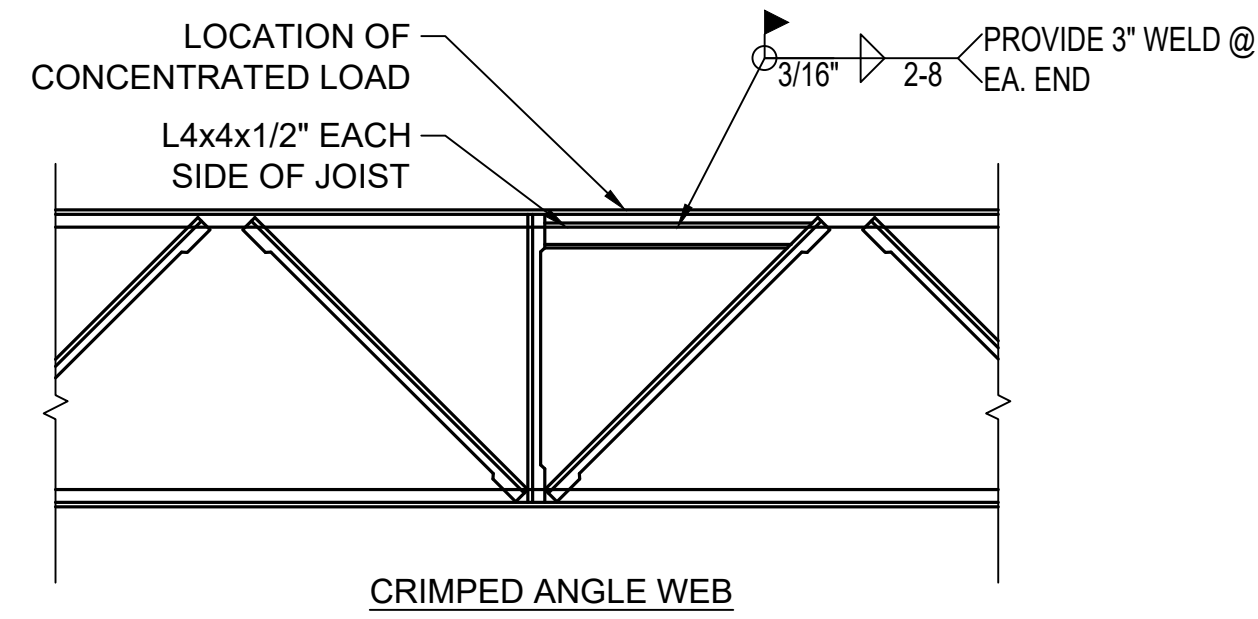
Project No.
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Sheet
SD3.0

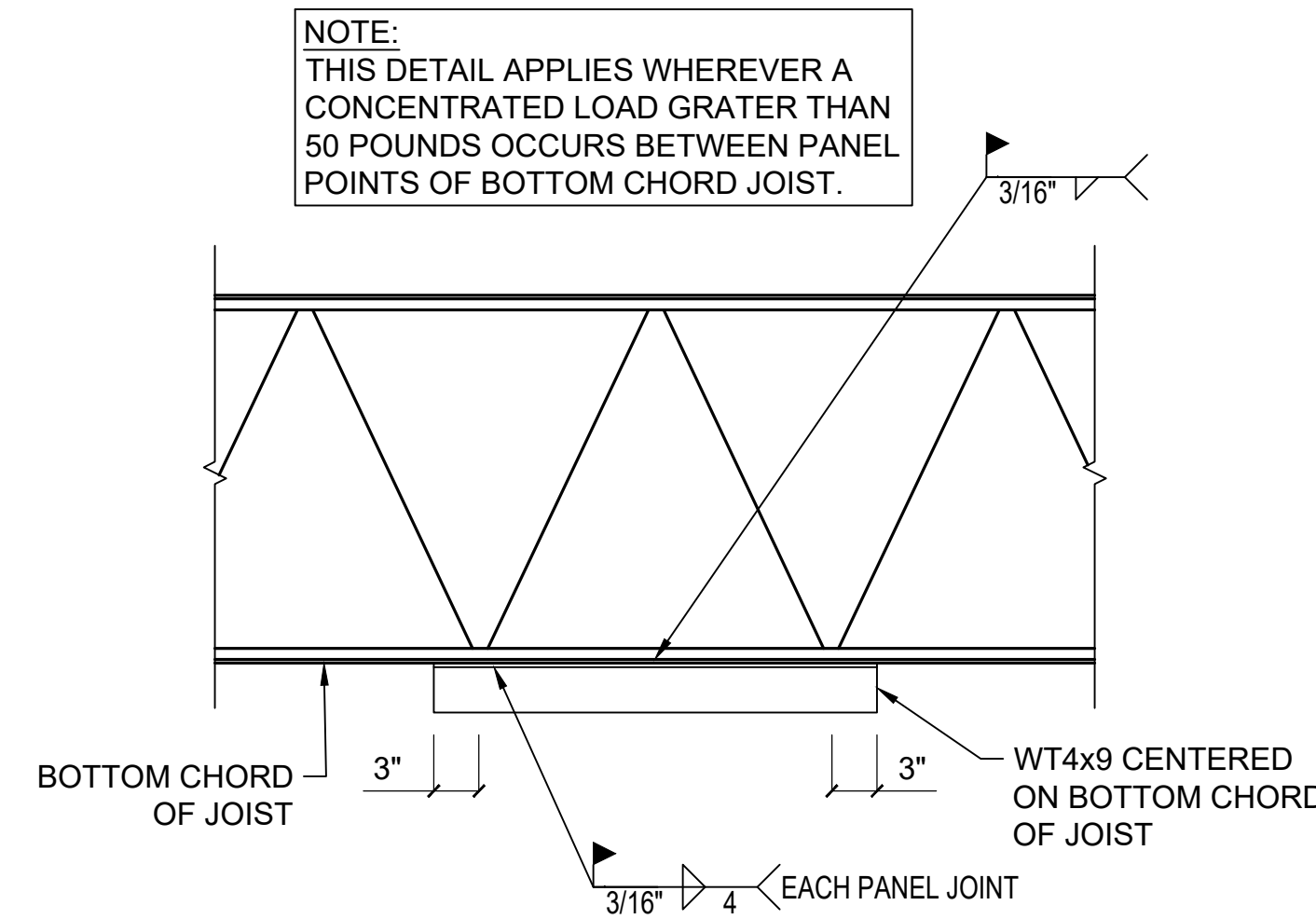
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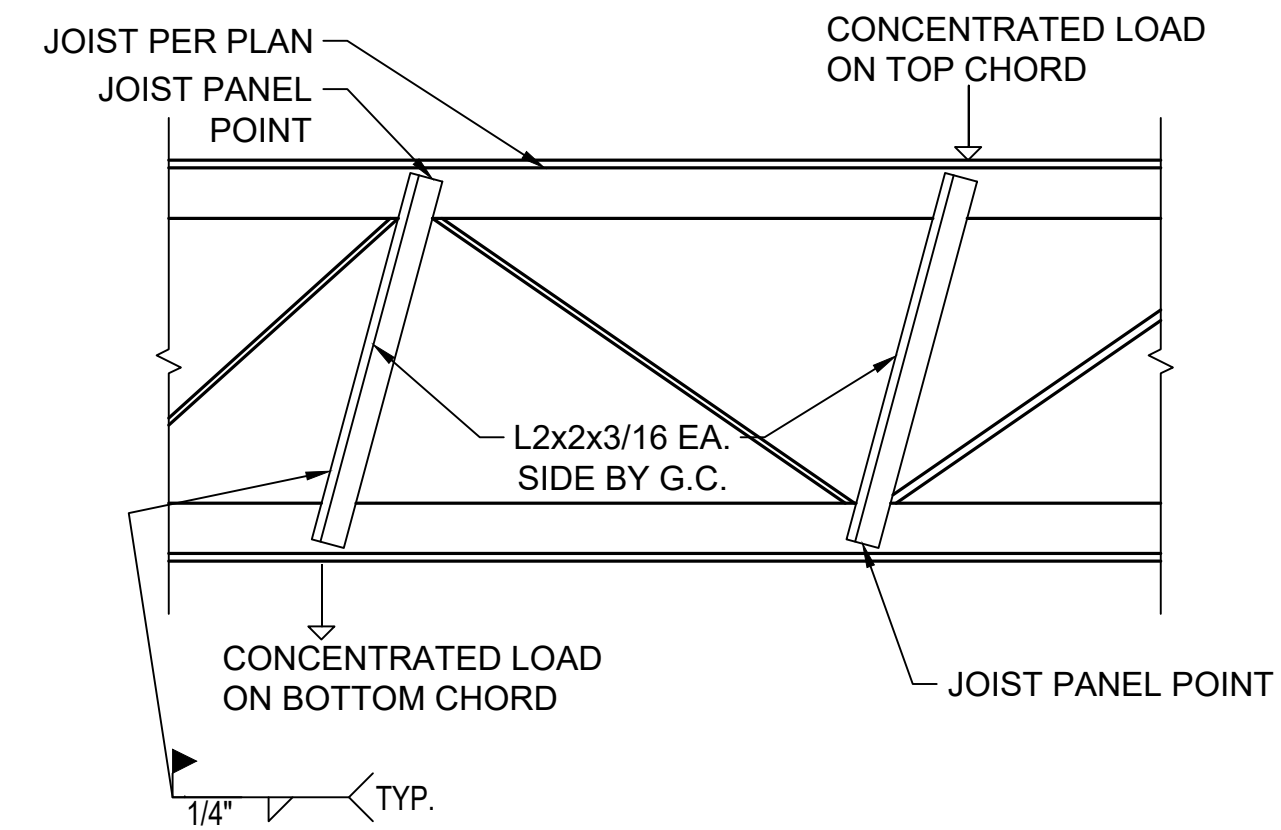
EDGE ANGLE/DIAPHRAGM CHORD SPLICES	
ANGLE SIZE	SPLICE PLATE
L3x3x $\frac{3}{4}$ "	$\frac{1}{2}$ "x2 $\frac{1}{2}$ "x9"
L4x4x $\frac{3}{4}$ "	$\frac{1}{2}$ "x4 $\frac{1}{2}$ "x1'-0"
L5x3x $\frac{3}{4}$ " (L.L.H.)	$\frac{3}{4}$ "x2 $\frac{1}{2}$ "x1'-2"
L6x4x $\frac{5}{8}$ " (L.L.V.)	$\frac{1}{2}$ "x5 $\frac{1}{2}$ "x1'-2"



NOTE:
TOP CHORD SHALL BE REINFORCED WHEREVER A CONCENTRADE LOAD IN EXCESS OF 50 LBS. OCCURS BETWEEN PANEL POINTS OF THE JOIST.



NOTES:
THIS DETAIL IS APPLIED FOR ALL CONCENTRATED LOAD THAT ARE ATTACHED TO JOIST (S) BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS. EXAMPLES OF THESE LOADS ARE:
1) HANGING LOAD, PARTITION, THAT EXCEEDS 100 lb.
2) HANGING PLUMBING, MECH'L STEEL PIPE WITH DIA. > 5"
3) HANGING BASKETBALL GOALS
4) MECHANICAL UNITS.



EDGE SPLICE DETAIL

SCALE
NOT TO SCALE

1

TYP. CHORD REIN. FOR KCS OR K-SERIES

SCALE
NOT TO SCALE

2

TYP. JOIST BOTTOM CHORD REIN.

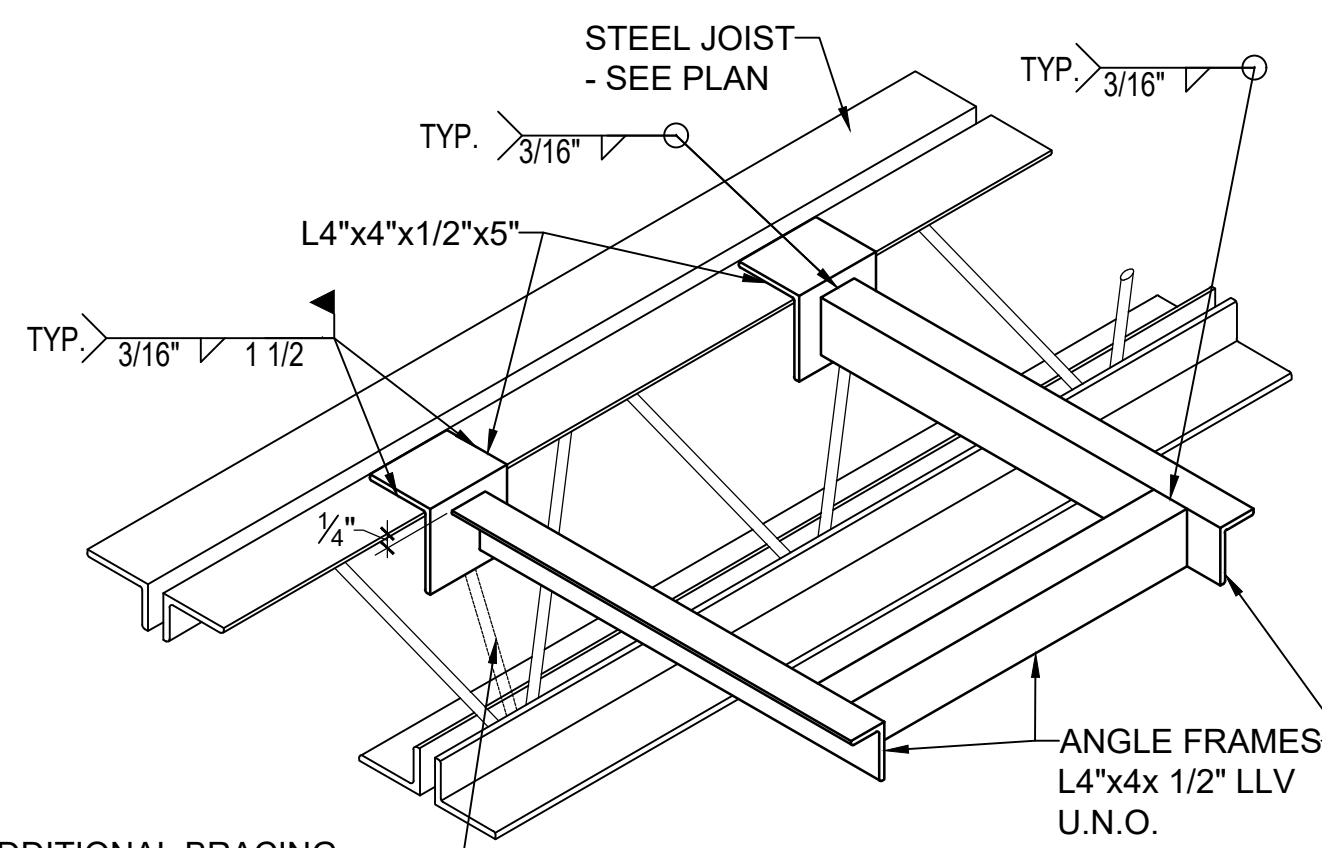
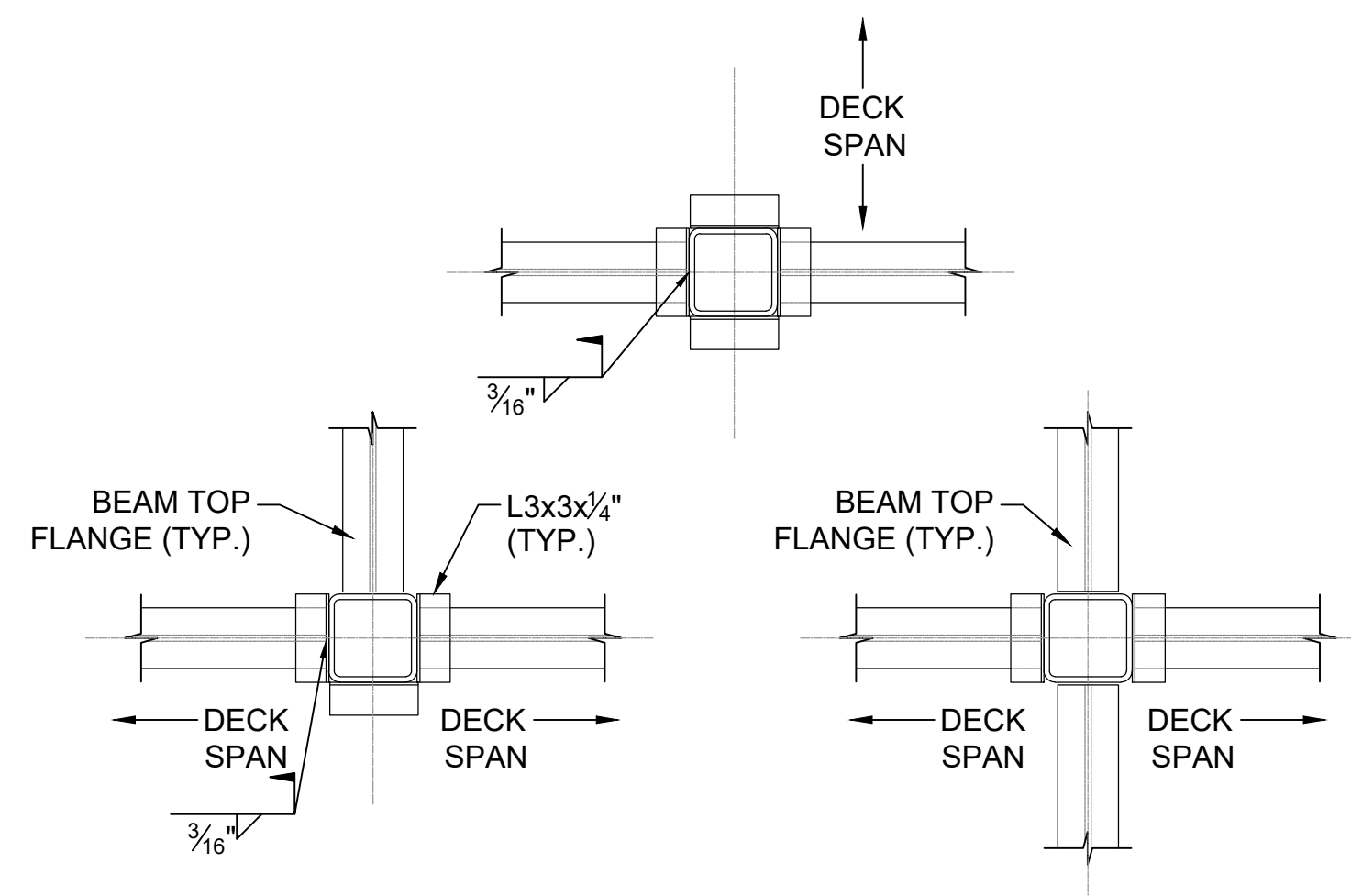
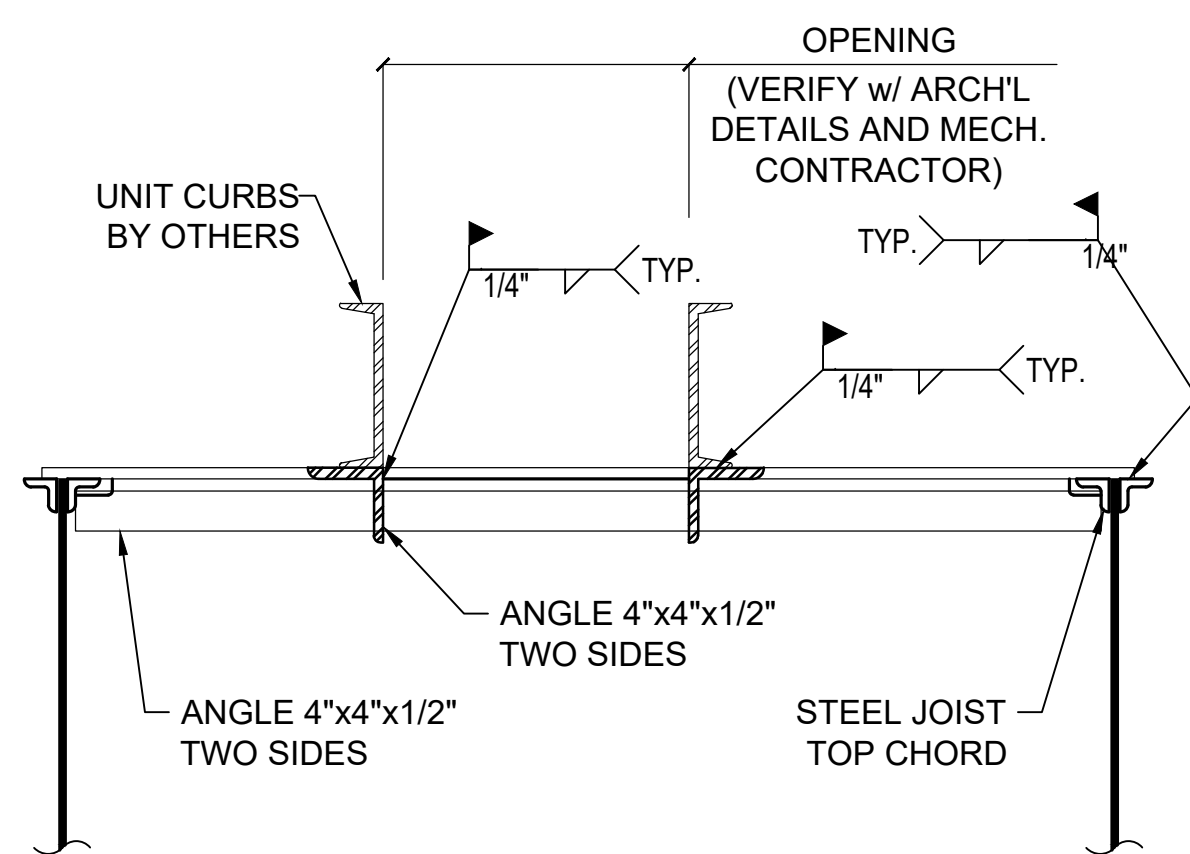
SCALE
NOT TO SCALE

3

TYP. JOIST BRACING

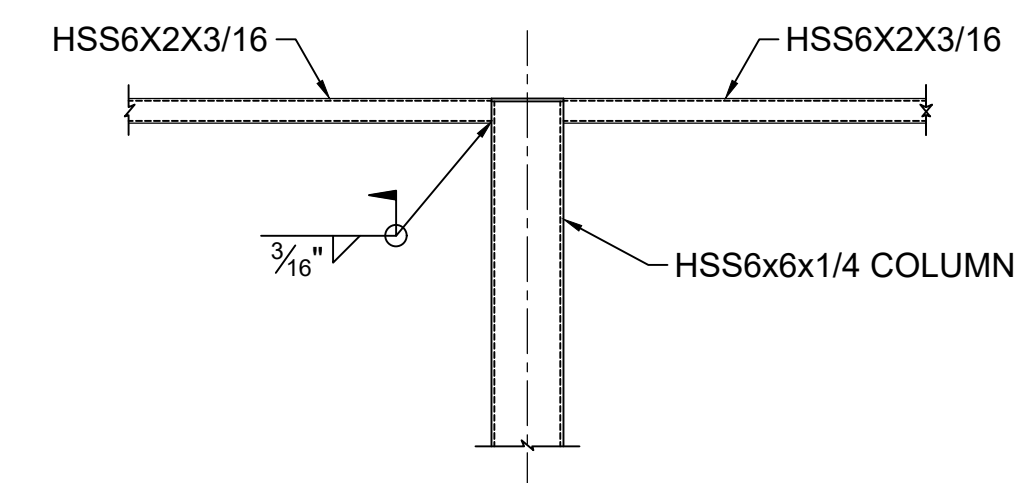
SCALE
NOT TO SCALE

4



ADDITIONAL BRACING REQUIRED IF FRAME DOES NOT FALL ON JOIST PANEL POINT (SEE SUPPLEMENTAL BRACING DETAIL)

NOTE:
USE THIS DETAIL FOR ANY OPENING LARGER THAN 10" IN ANY DIRECTION OR EQUIPMENT WEIGHING IN EXCESS OF 50 POUNDS.



TYP. DETAIL AT ROOF CURB

SCALE
NOT TO SCALE

5

METAL DECK SUPPORT @ STEEL COLUMN

SCALE
NOT TO SCALE

6

TYP. STEEL JOIST OPENING SUPPORT

SCALE
NOT TO SCALE

7

PARAPET CONNECTION

SCALE
NOT TO SCALE

8

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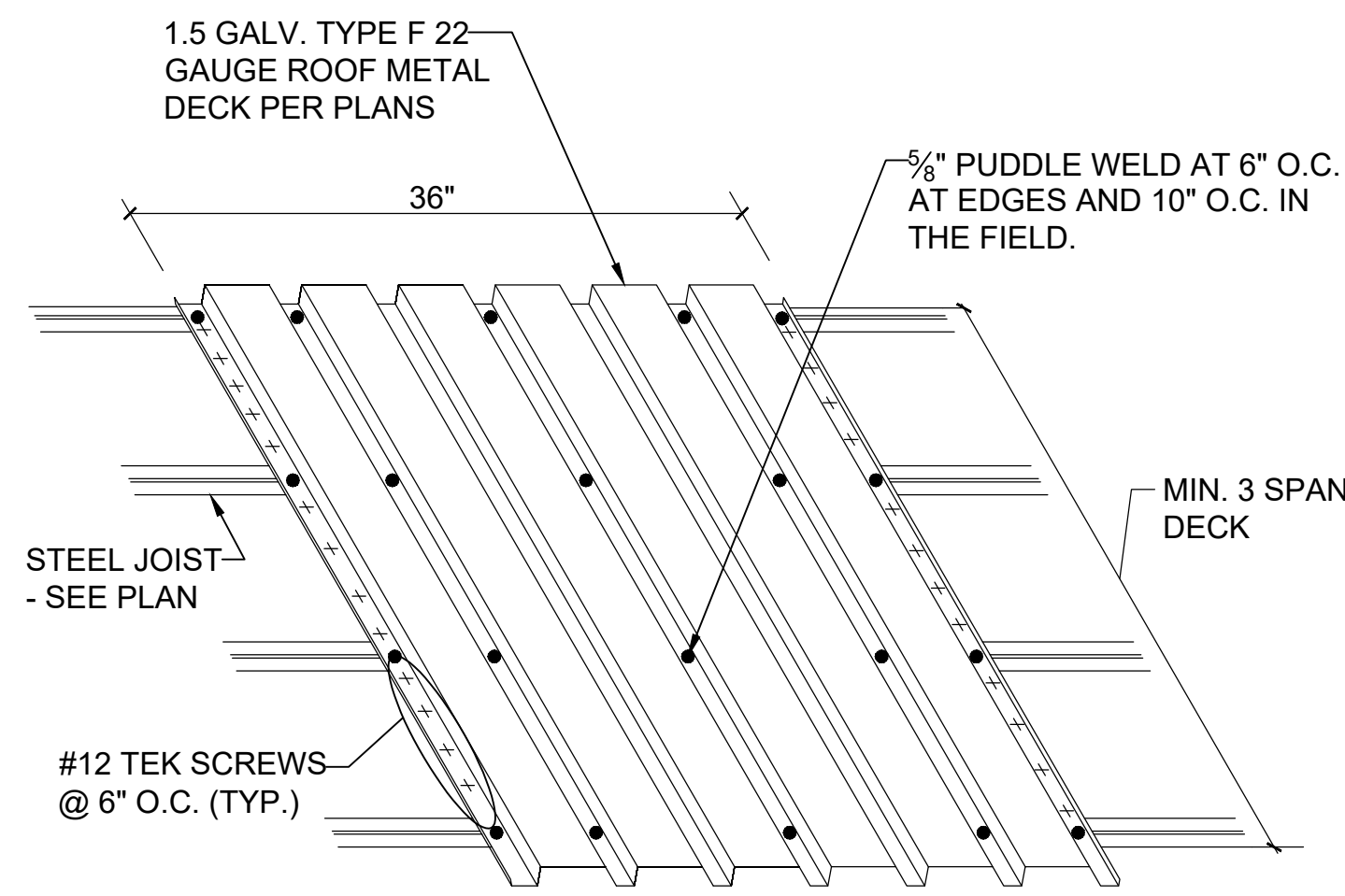
Project Name and Address
CEFCO #446 - DEFUNIAK SPRINGS
NWC I-10 AND HWY 331
DEFUNIAK SPRINGS, FL

Sheet Title
ROOF FRAMING DETAILS

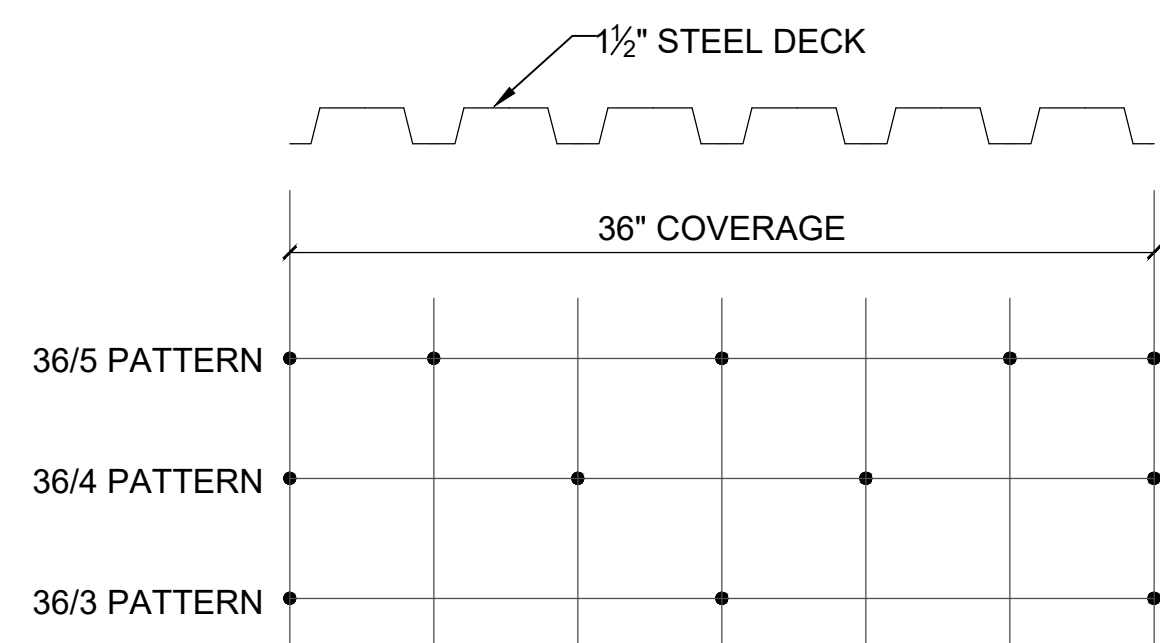
Project No.
170-95.00

Sheet
SD4.0

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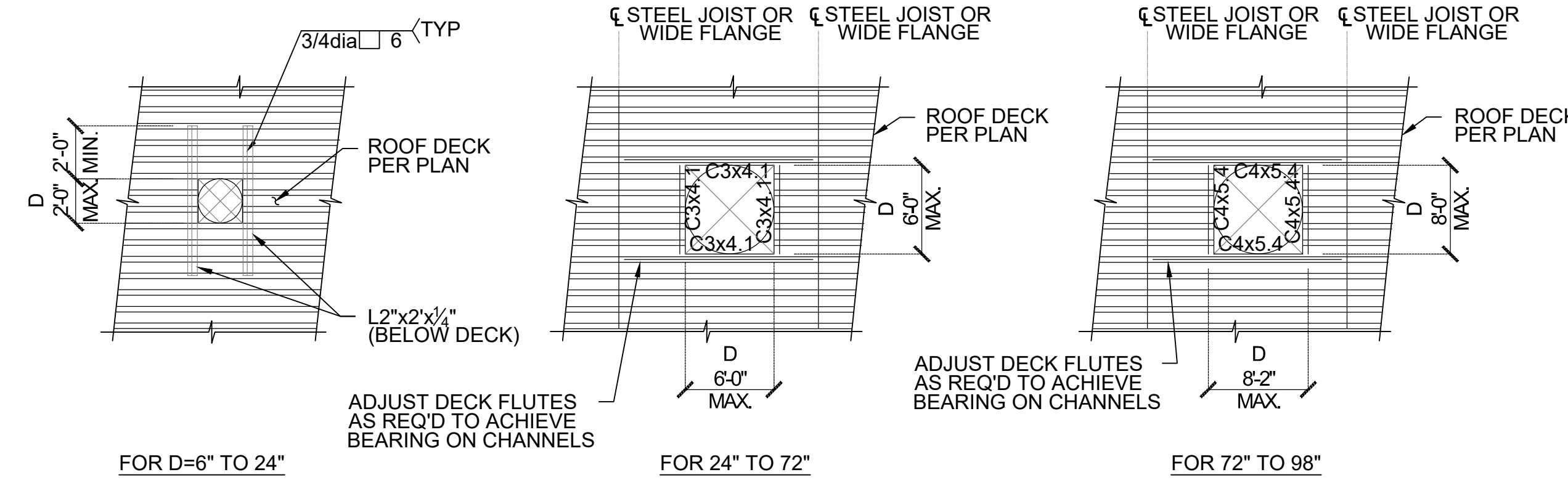


- NOTES:
1. WELDING METAL DECK TO ROOF JOISTS OR TO OTHER METAL DECK PANELS IS NOT PERMITTED
 2. USE #12 TEK SCREWS FOR CONN. TO ALL PERIMETER ANGLES @ 6\"/>

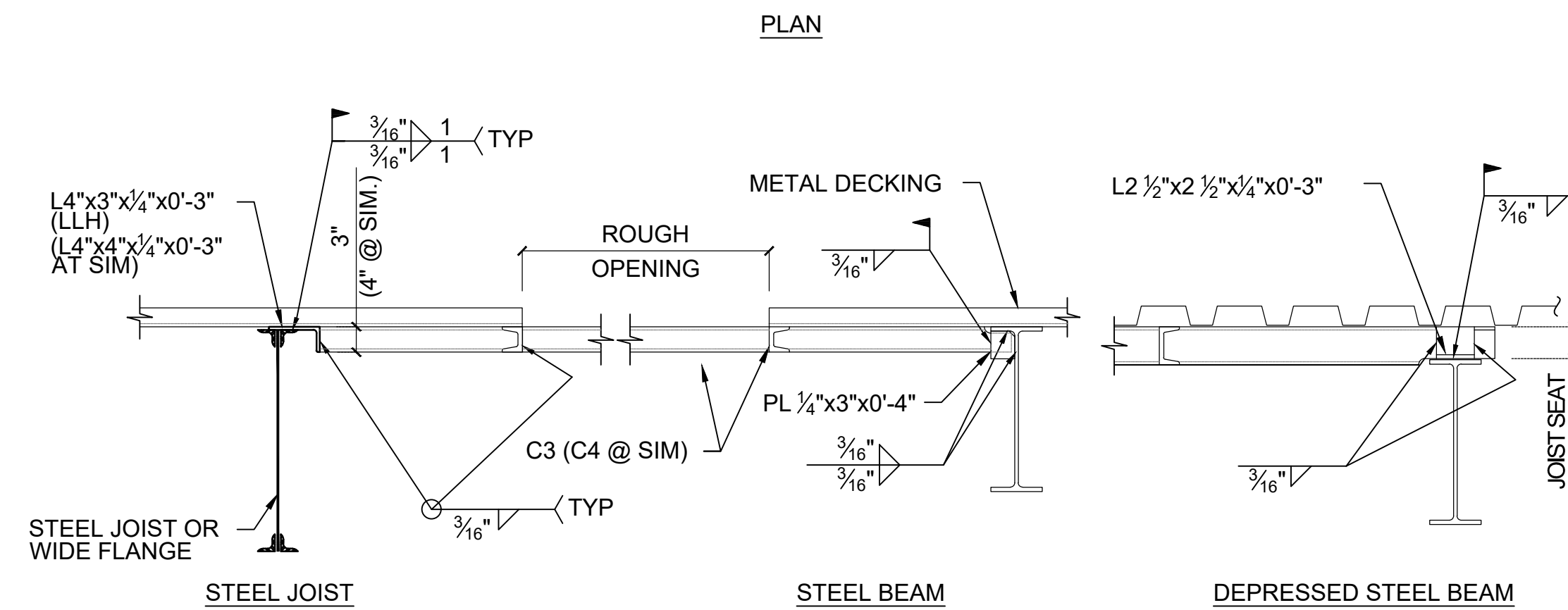


NOTES:
REFER TO GENERAL NOTES FOR FASTENER TYPES.

- 36/5 (6)
 NUMBER OF SIDELAP SCREWS PER SPAN
 NUMBER OF FASTENERS AT EACH SUPPORT PER SHEET
 NOMINAL SHEET WIDTH (INCHES)



- NOTES:
1. HOLES LESS THAN 6\"/>
 2. ALL METAL DECK OPENINGS SHOWN ABOVE APPLY ONLY TO DUCTWORK, PIPING, ROOF HATCHES AND SMALL AIR SHAFTS.
 3. THESE REINFORCED OPENINGS ARE NOT INTENDED TO SUPPORT MECHANICAL EQUIPMENT.



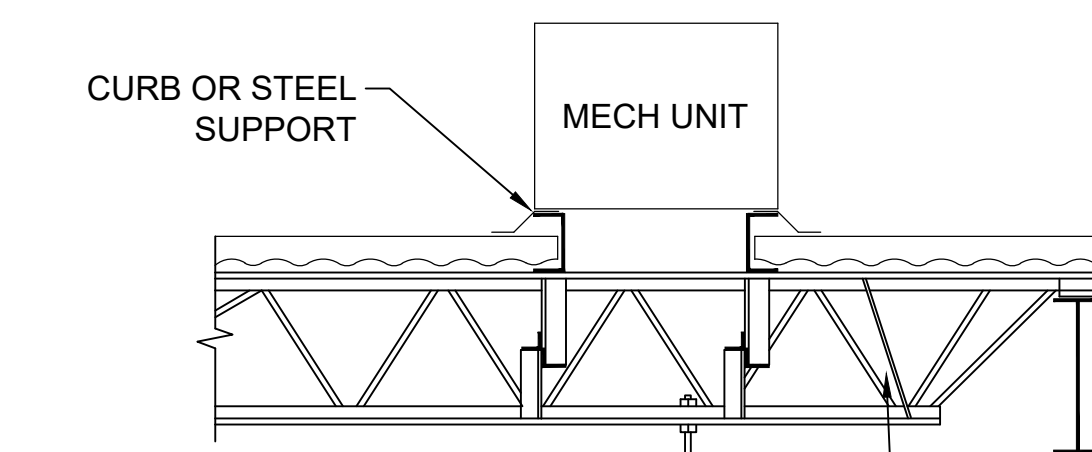
ROOF DECK ATTACHMENT W/ DECK FASTENER

SCALE
NOT TO SCALE 1

TYP. ROOF OPENING SECTION FOR AIR VENTS

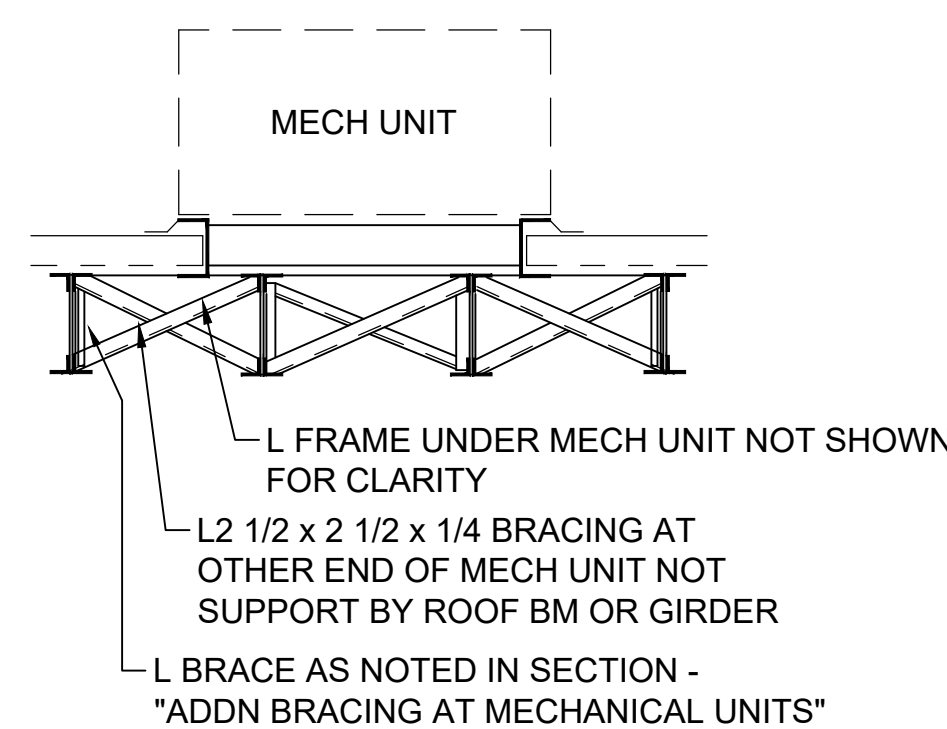
SCALE
NOT TO SCALE 2

NOTE:
MECHANICAL UNIT MUST BEAR DIRECTLY ON ROOF MEMBER

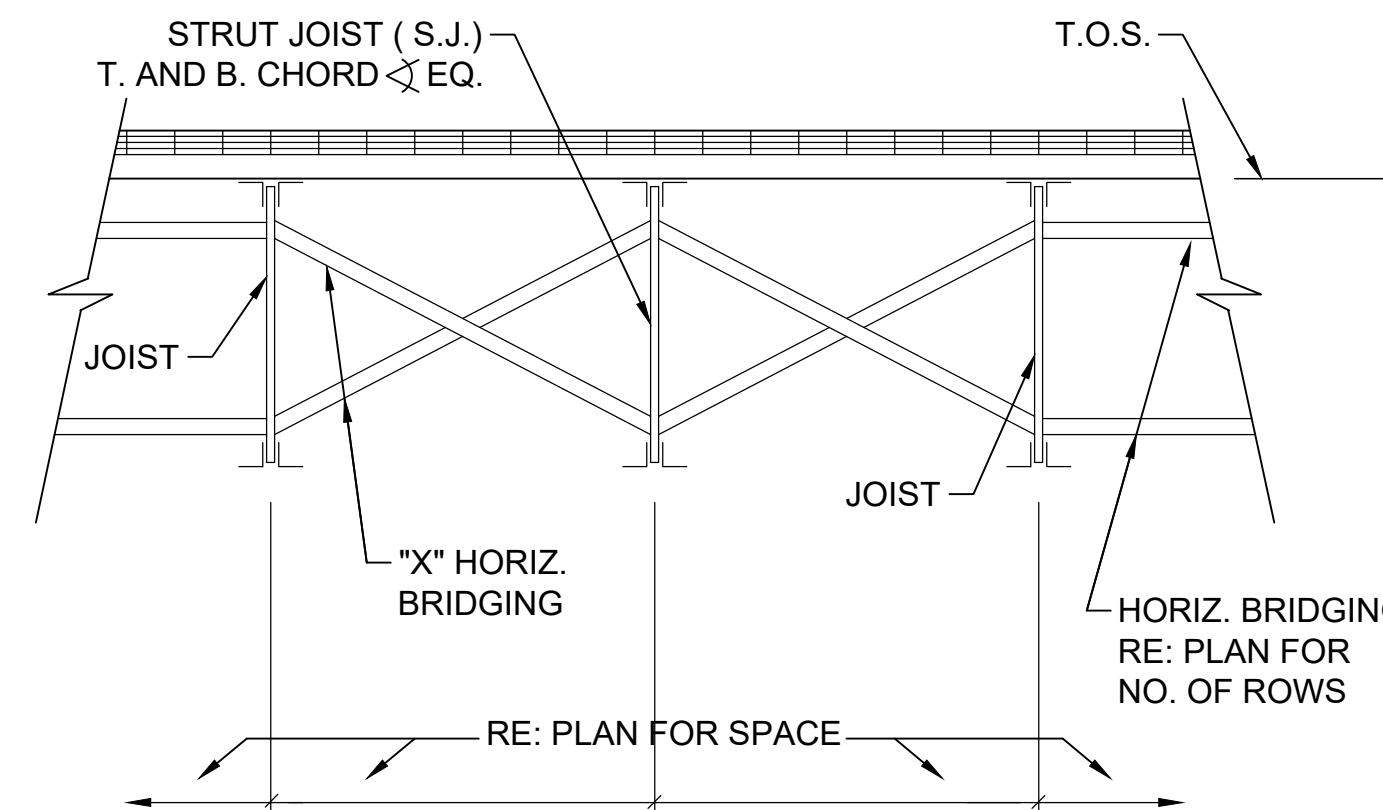


PLACE ALL MECH PIPING HANGERS AT BOT CHORD PANEL POINT OF JSTS AND TRUSSES
 L2 1/2 x 2 1/2 x 1/4 BRACE FROM TOP CHORD OF JST (AT MECH UNIT CURB) DOWN TO NEAREST BOT CHORD PANEL POINT OF JST

L FRAME UNDER MECH UNIT NOT SHOWN FOR CLARITY



L FRAME UNDER MECH UNIT NOT SHOWN FOR CLARITY
 L2 1/2 x 2 1/2 x 1/4 BRACING AT OTHER END OF MECH UNIT NOT SUPPORT BY ROOF BM OR GIRDER
 L BRACE AS NOTED IN SECTION - "ADDN BRACING AT MECHANICAL UNITS"



BRIDGING AT STRUT JOIST

SCALE
NOT TO SCALE 5

BRACING AT MECHANICAL UNIT

SCALE
NOT TO SCALE 3

BRACING AT MECHANICAL UNIT

SCALE
NOT TO SCALE 4

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/12/2023



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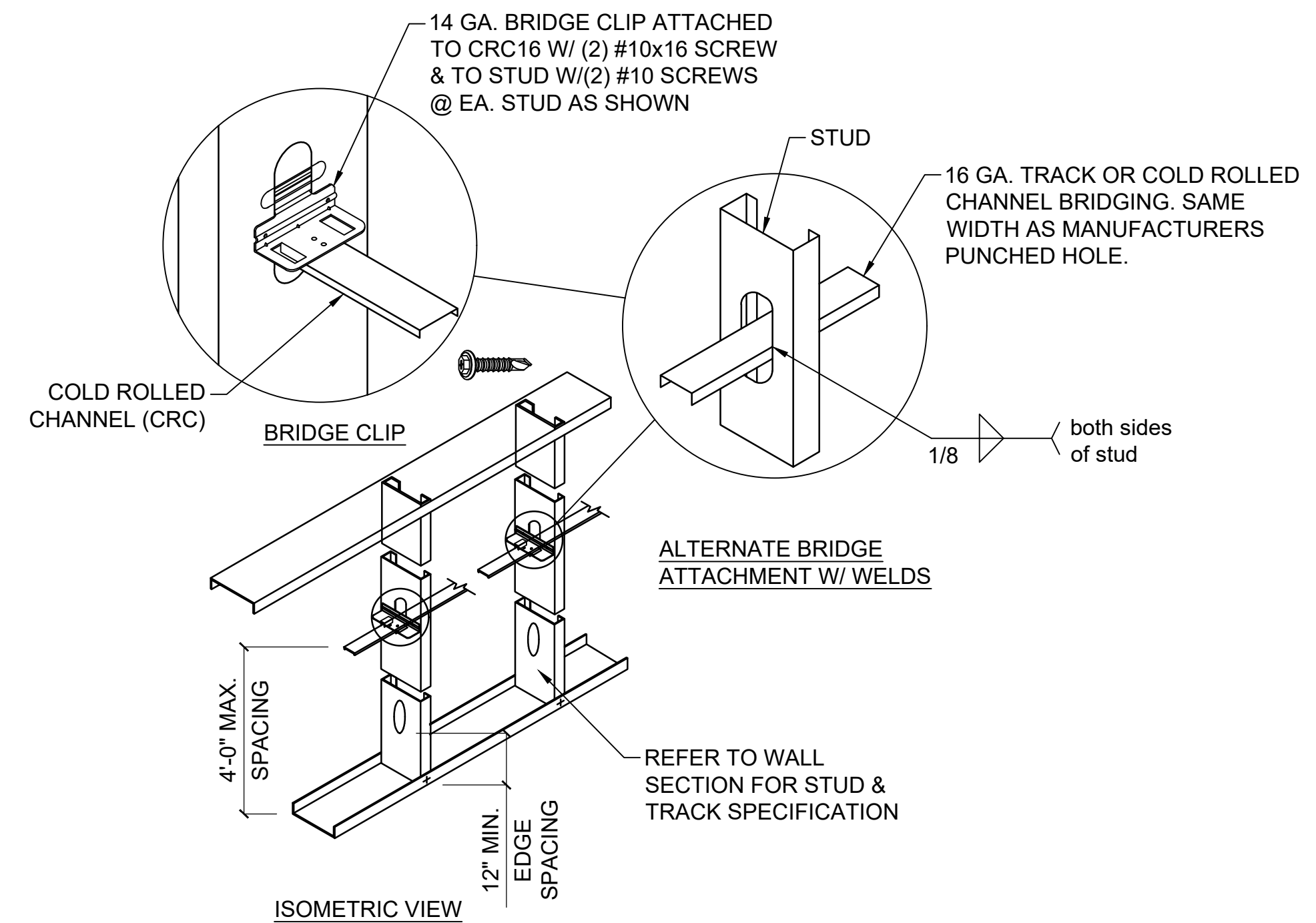
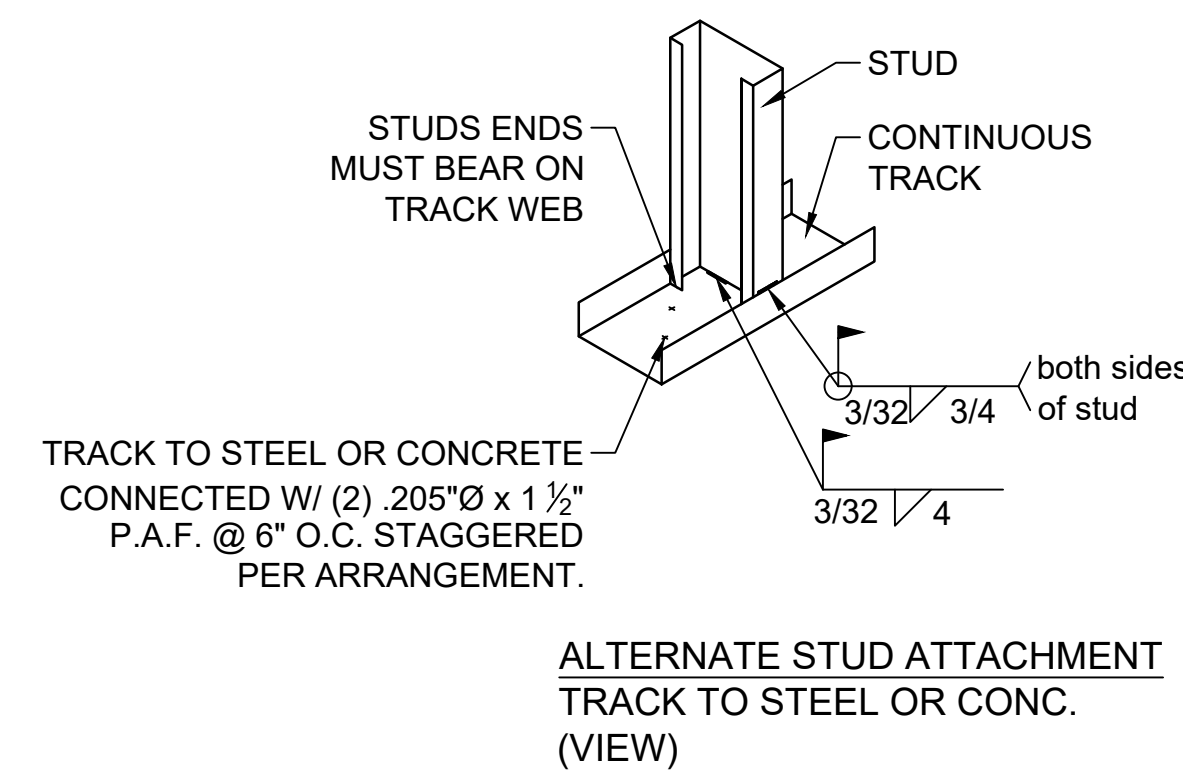
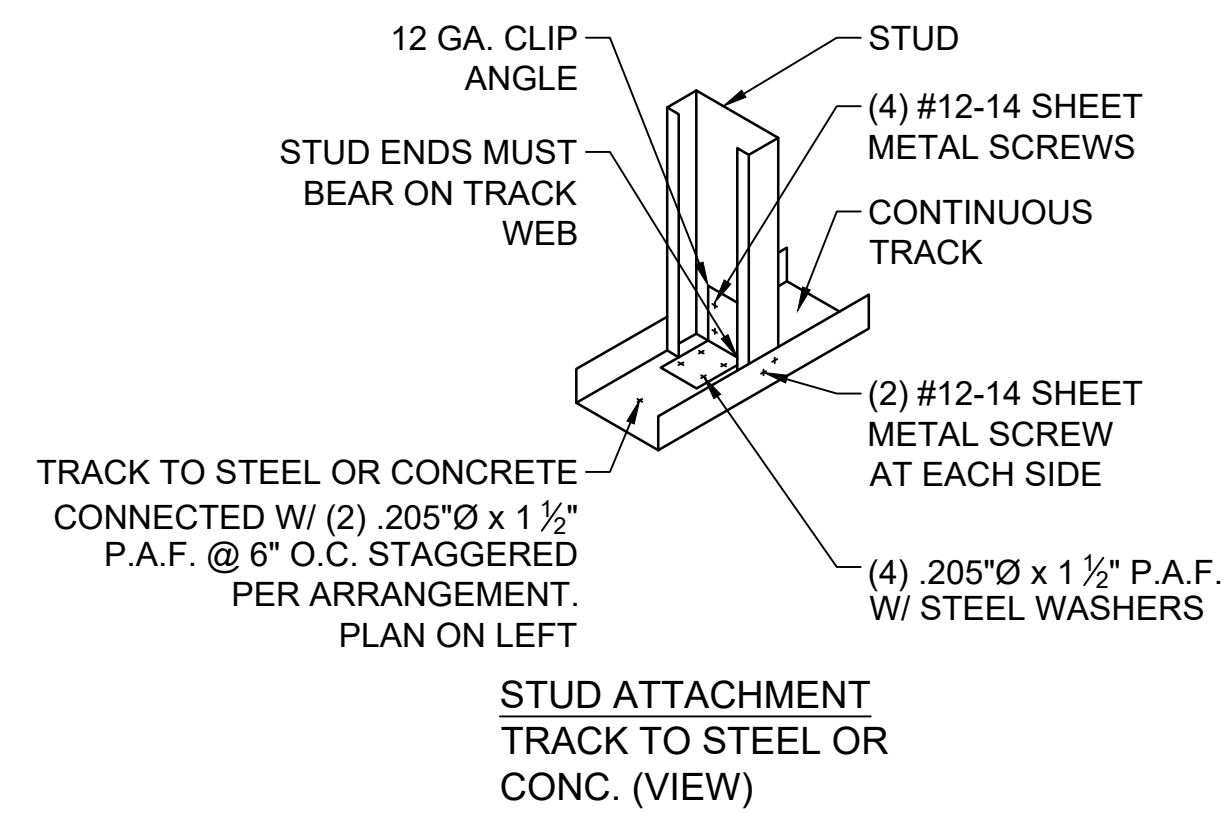
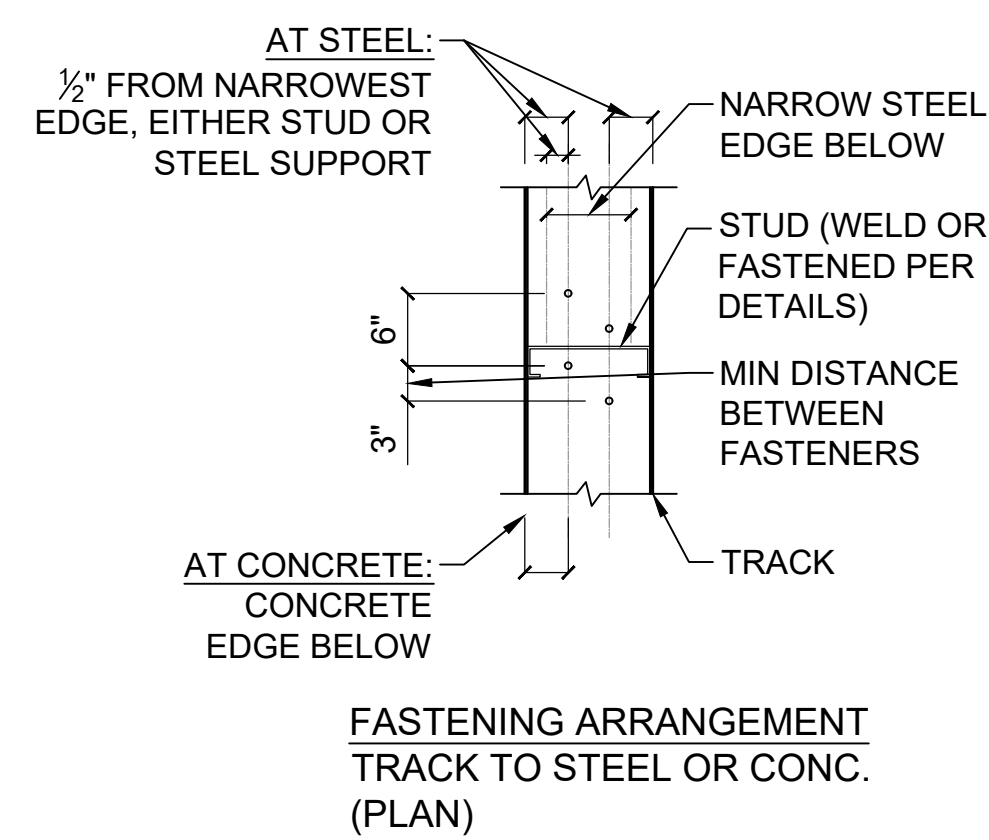
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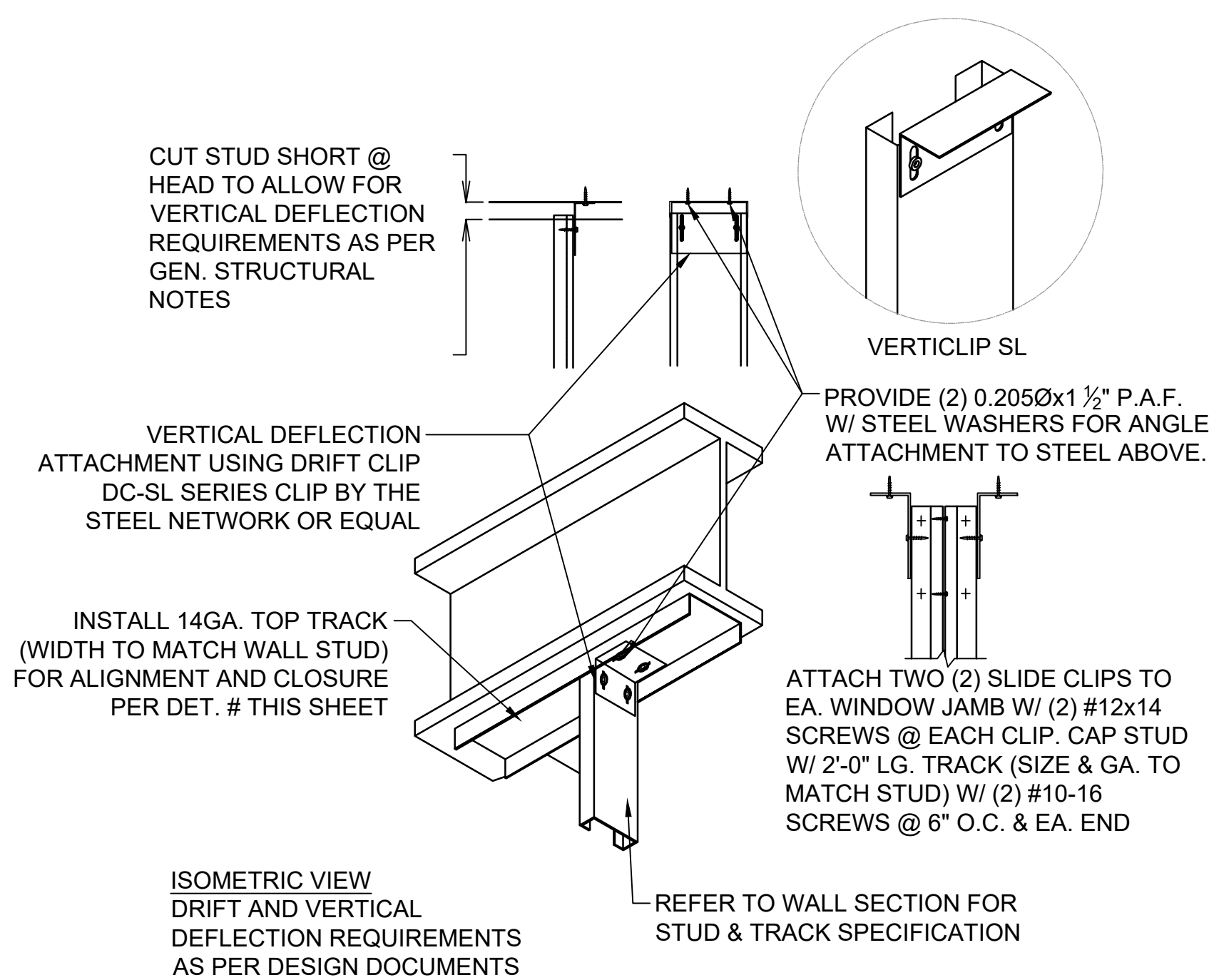
Sheet Title
ROOF FRAMING DETAILS

Project No.
 170-95.00
 Drawn By:
SD4.1
 Checked By:

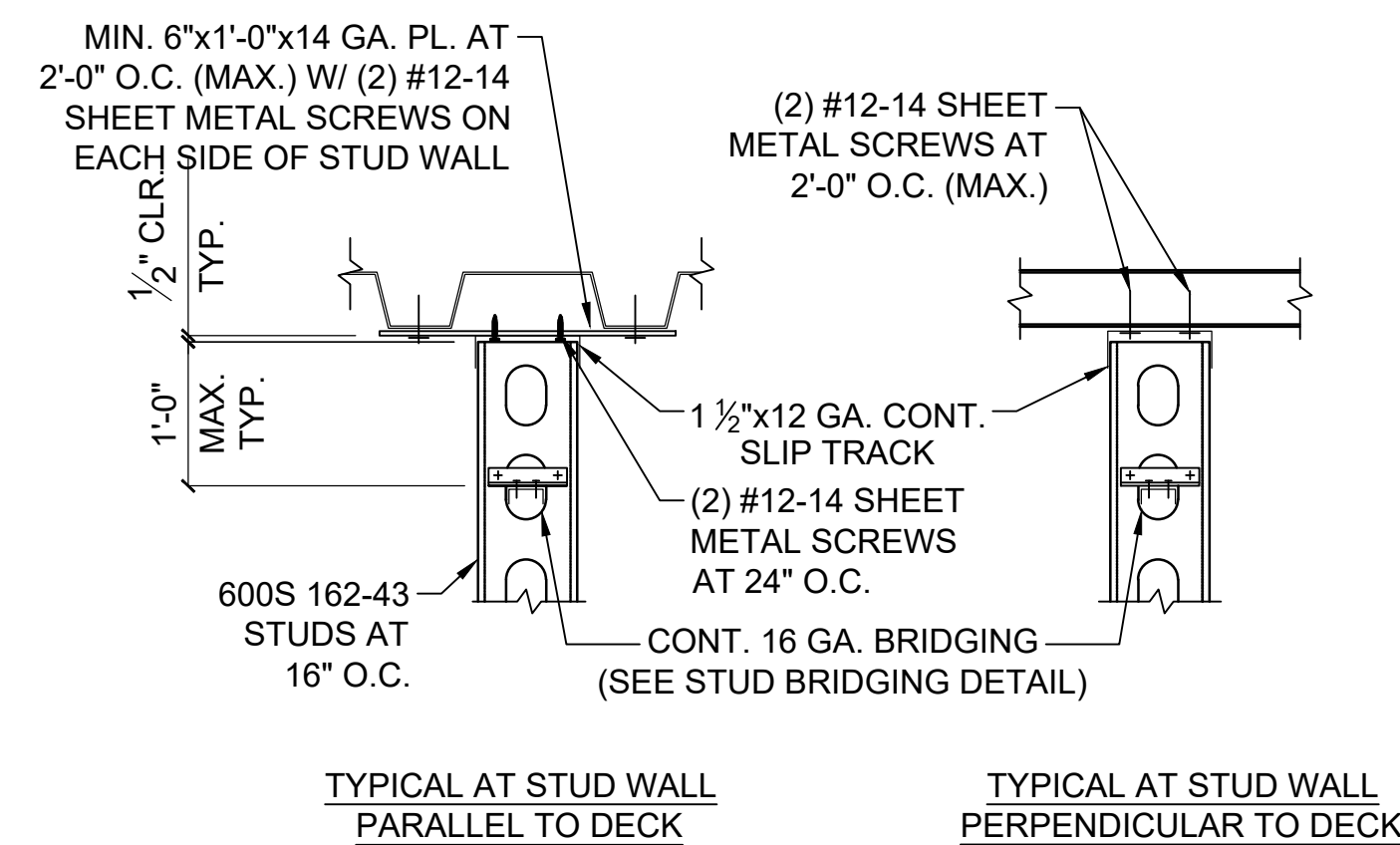


STUD TO TRACK CONNECTION SCALE NOT TO SCALE 1

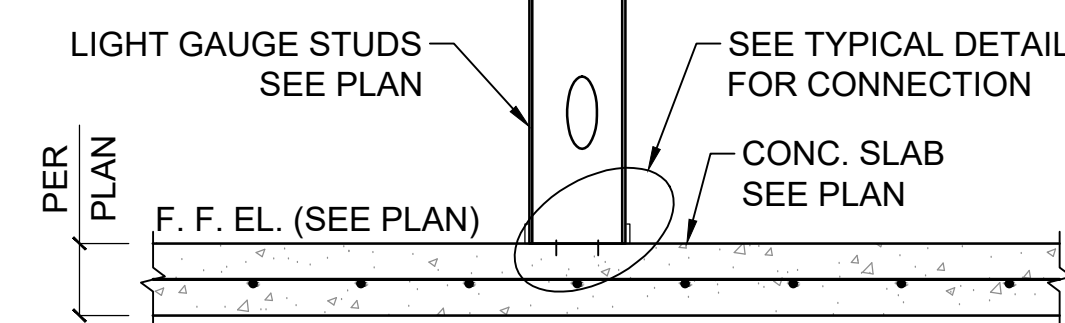
LT. GA. STUD BRIDGING DETAIL SCALE NOT TO SCALE 2



L.G. STUD CONN. TO STEEL BEAM SCALE NOT TO SCALE 3



TYP. STUD CONN. TO DECK SCALE NOT TO SCALE 4



TYP. STUD CONN. TO CON. SLAB SCALE NOT TO SCALE 5

No.	Revision/Issue	Date
2	ISSUE CLIENT COMMENTS - REV 1	01/04/2024
1	ISSUE FOR PERMIT	03/31/2023



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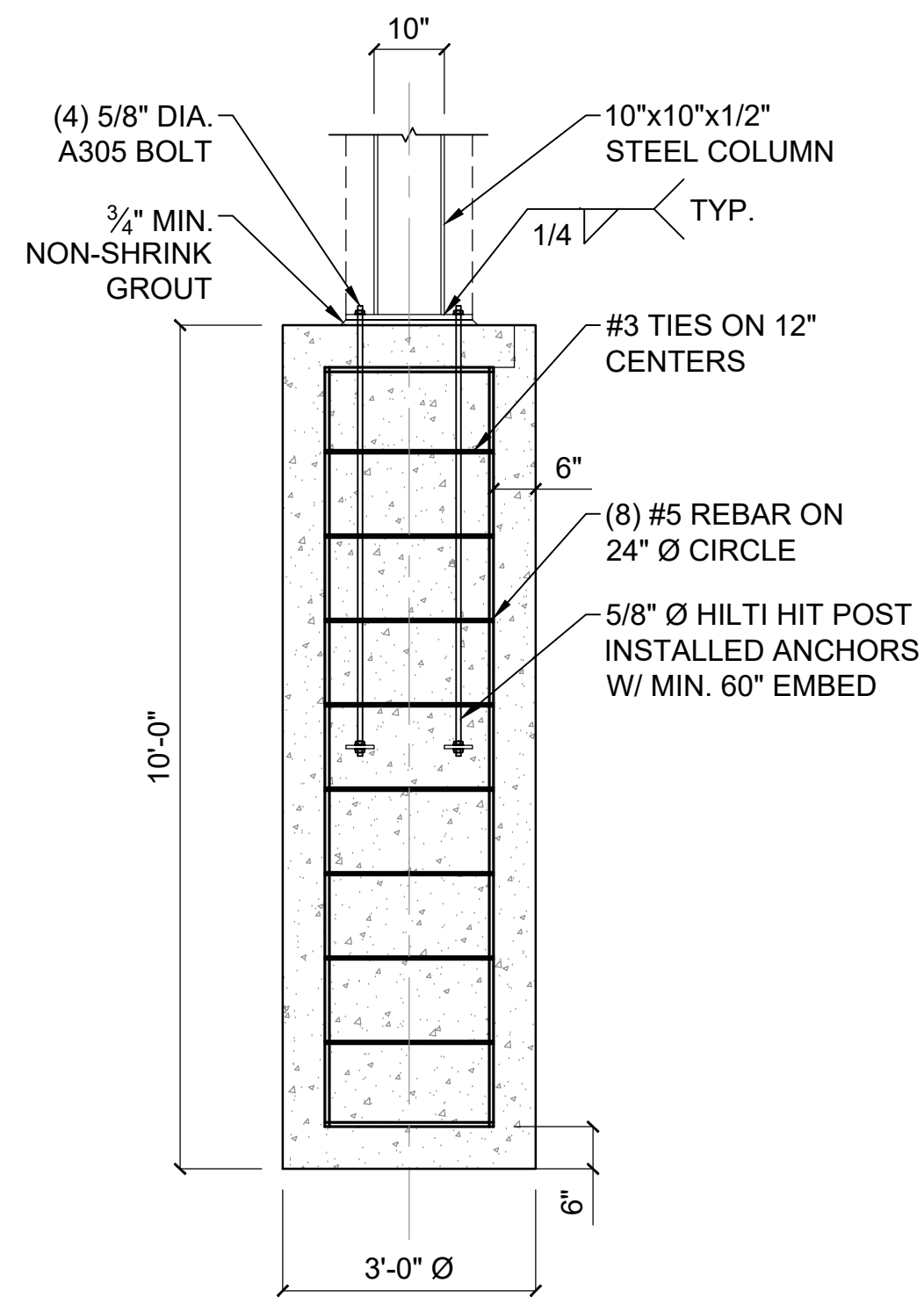
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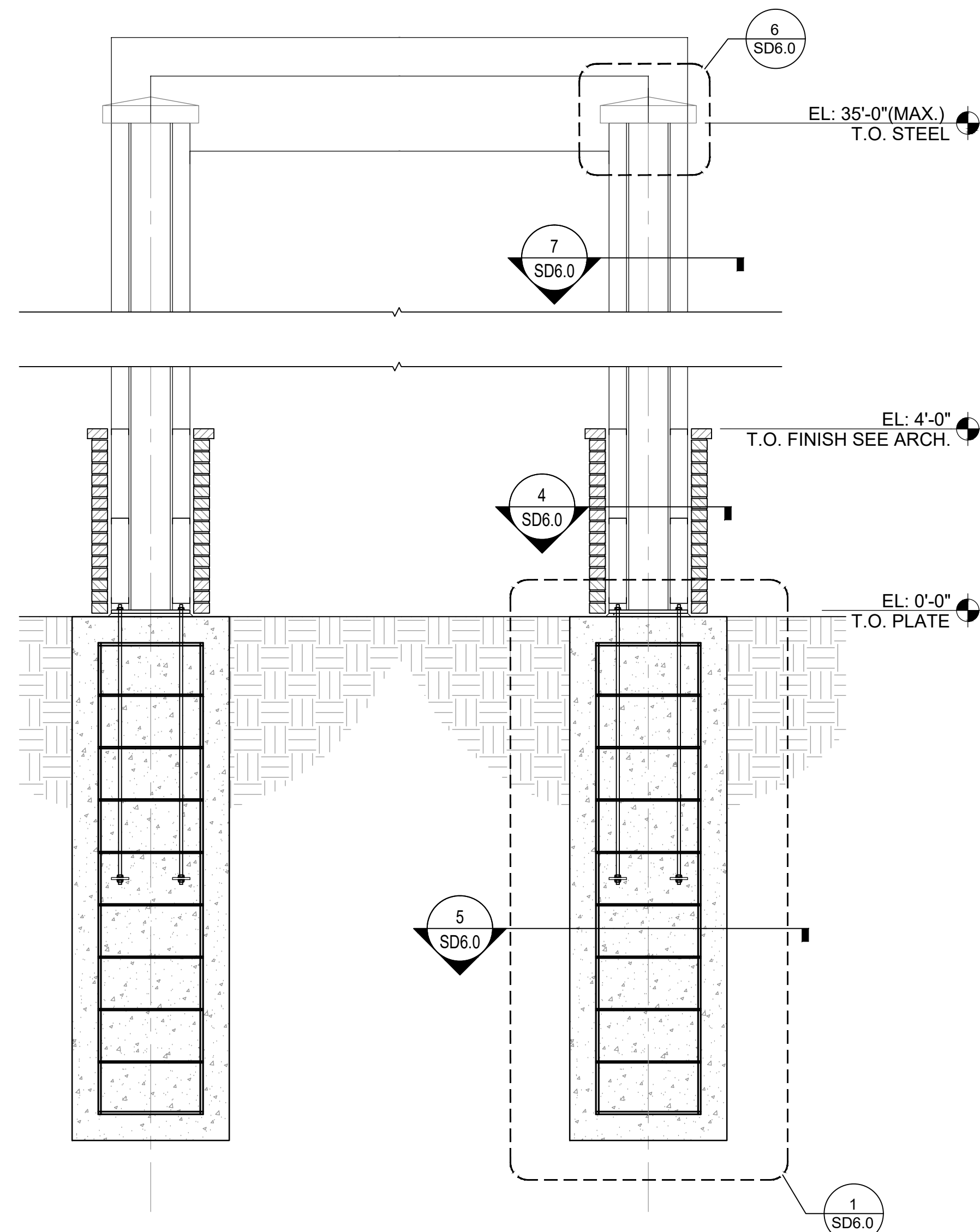
Sheet Title
LIGHT GAUGE DETAILS

Project No. 170-95.00
 Drawn By: SD5.0
 Checked By:



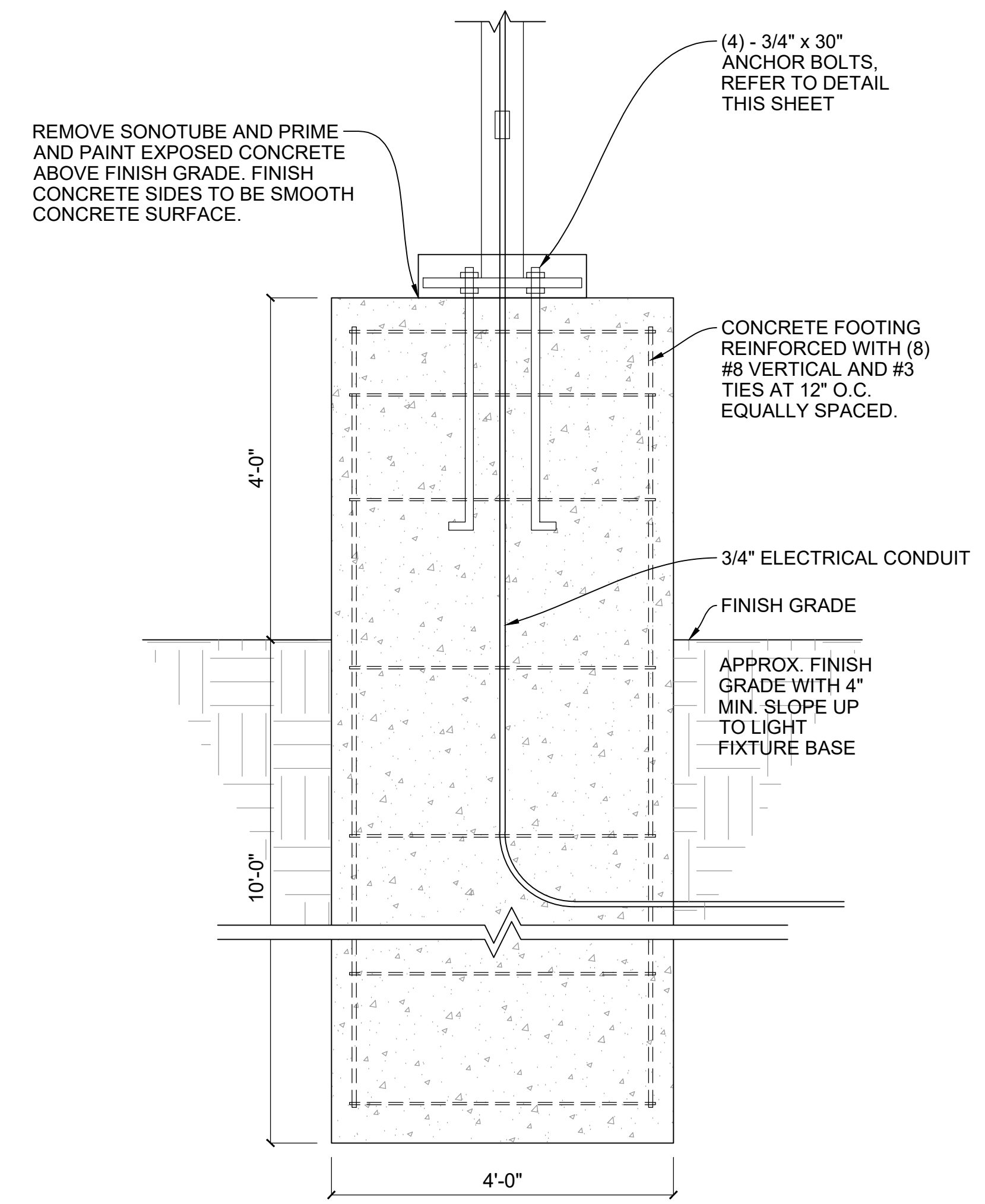
FOOTER DETAIL

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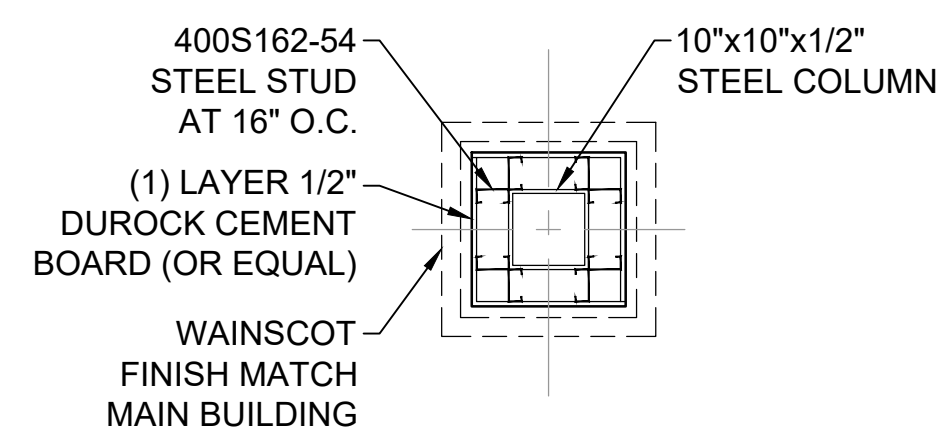
EXTERIOR SIGN SECTION

SCALE NOT TO SCALE 2



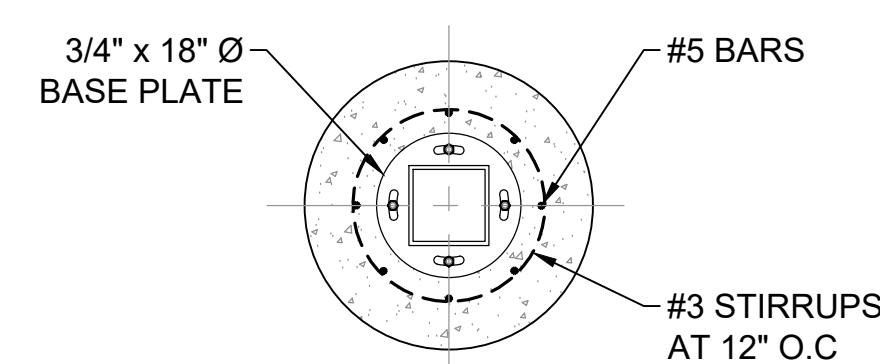
LIGHT POLE BASE (HEAVY DUTY)

SCALE NOT TO SCALE 3



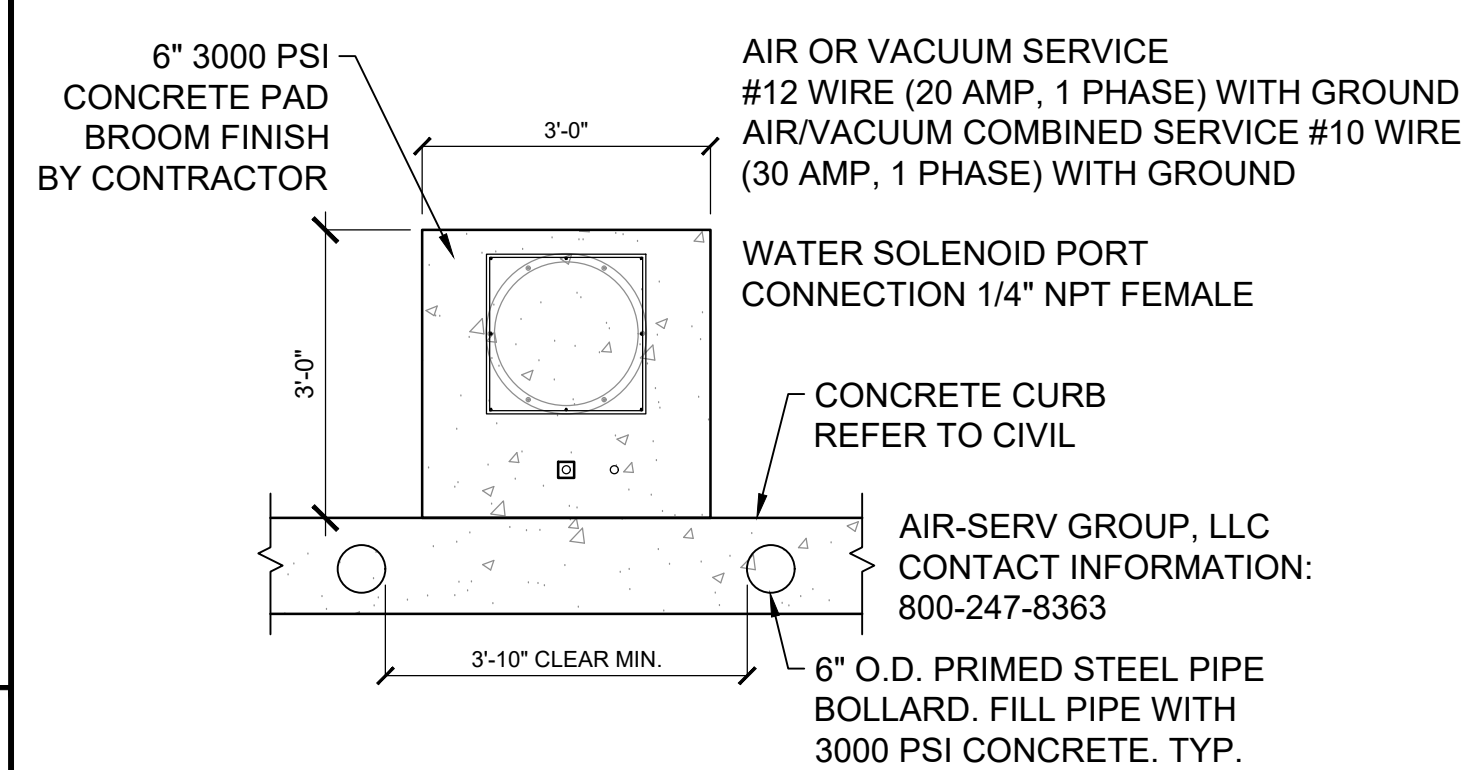
COLUMN DETAIL

SCALE NOT TO SCALE 4



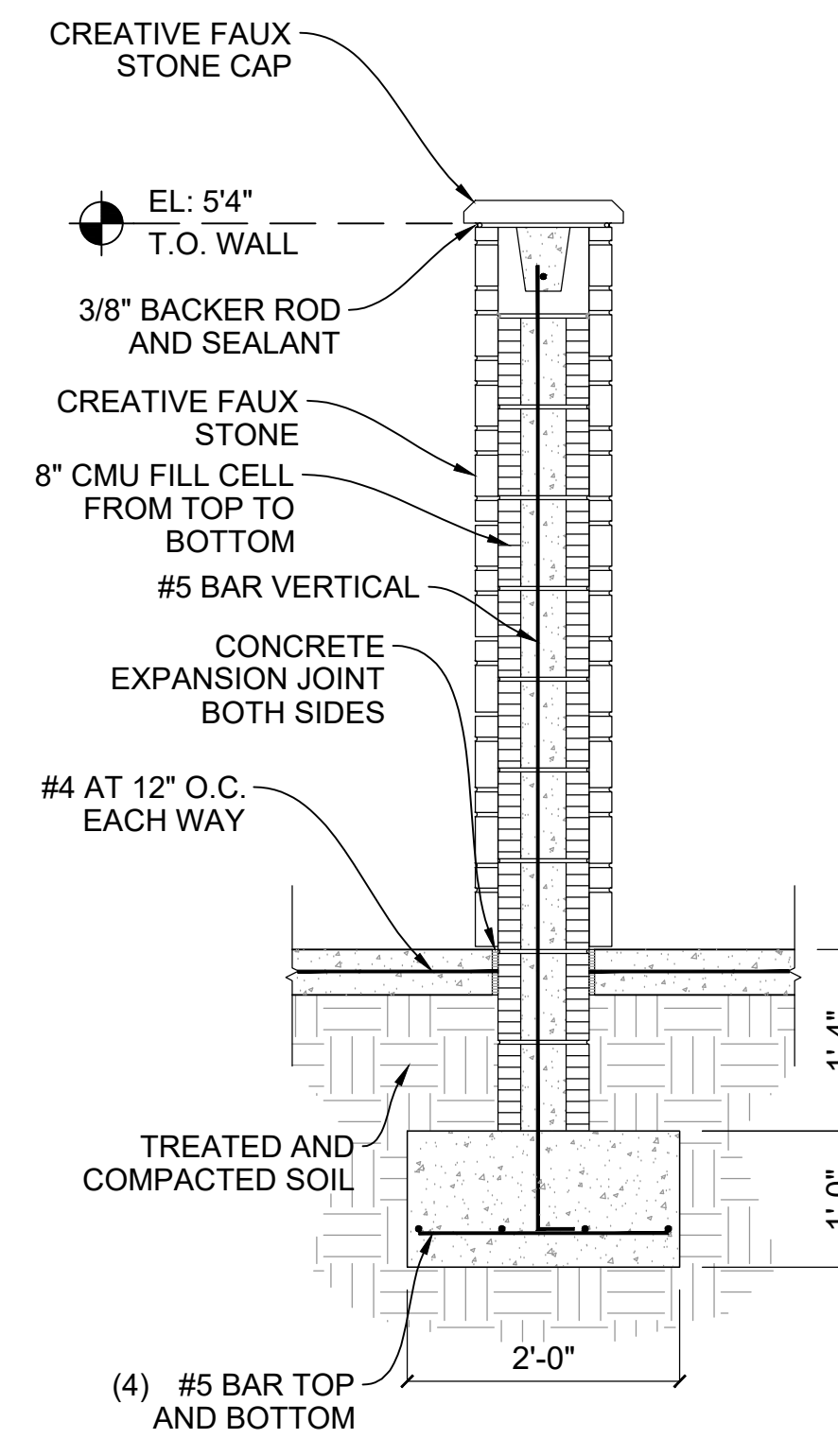
COLUMN DETAIL

SCALE NOT TO SCALE 5



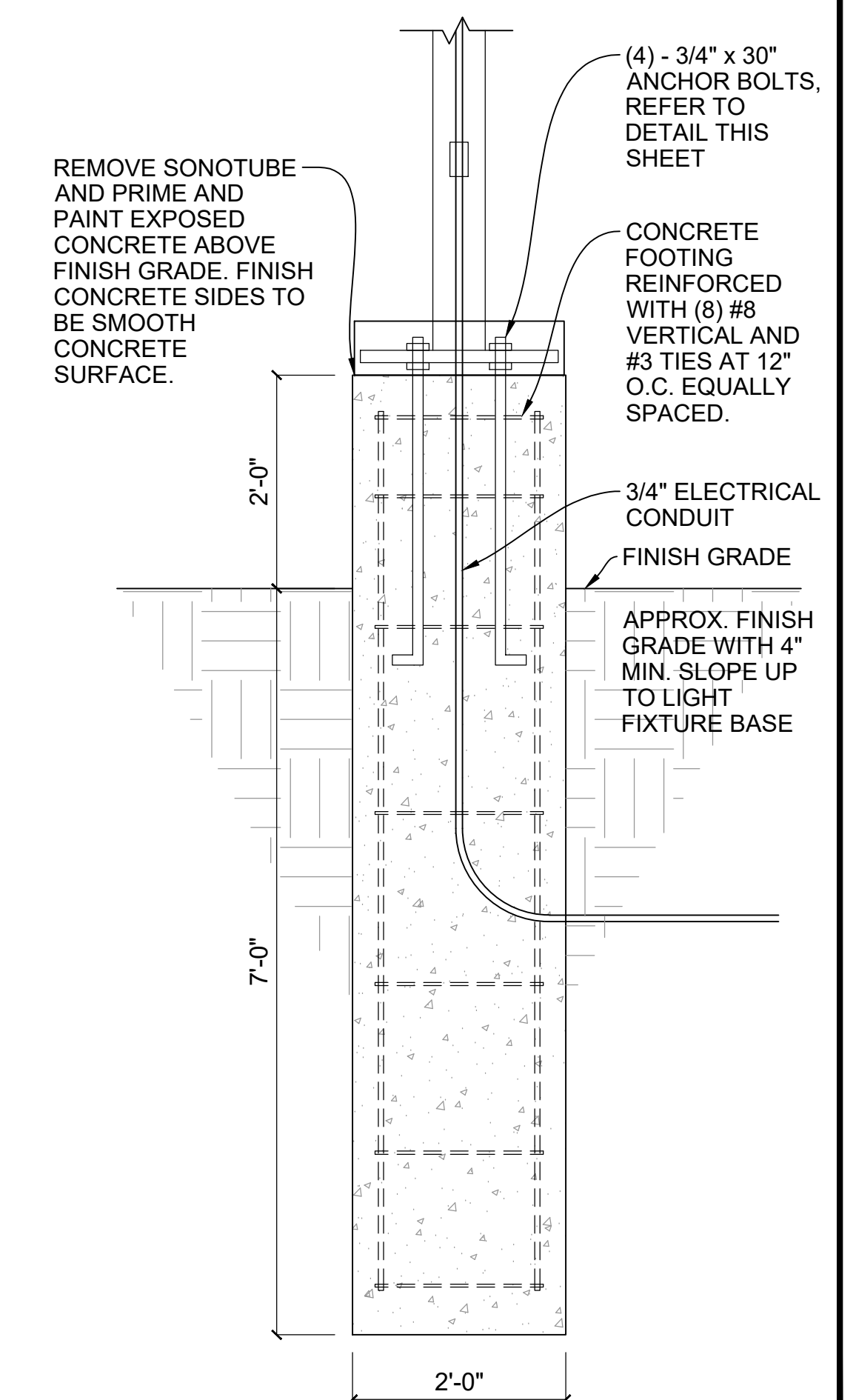
TYP. AIR/VACUUM AREA LAYOUT

SCALE NOT TO SCALE 8



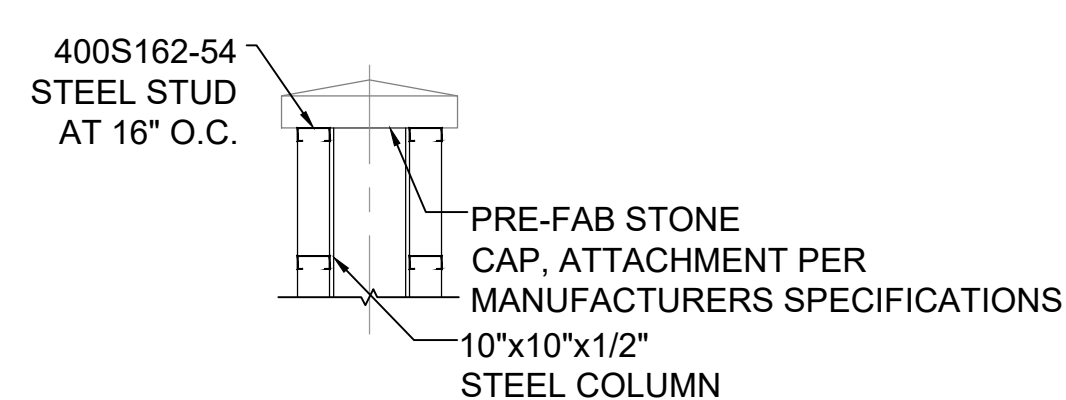
CMU WALL DETAIL

SCALE NOT TO SCALE 9



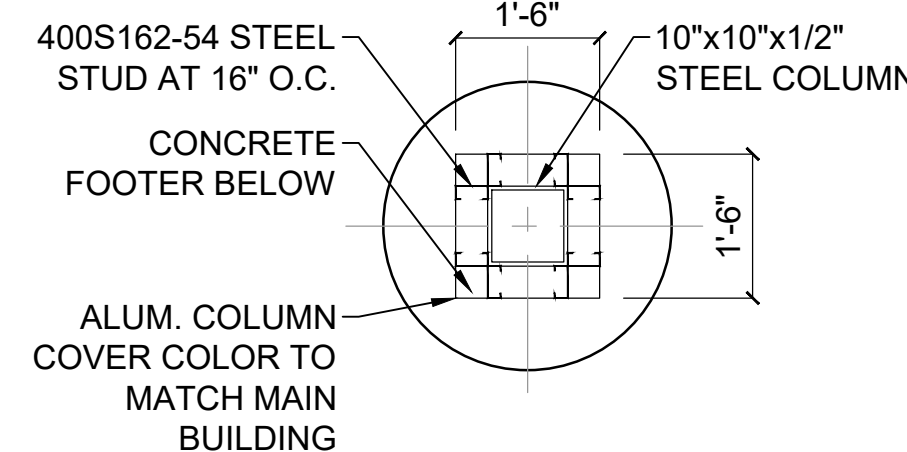
LIGHT POLE BASE (LIGHT DUTY)

SCALE NOT TO SCALE 10



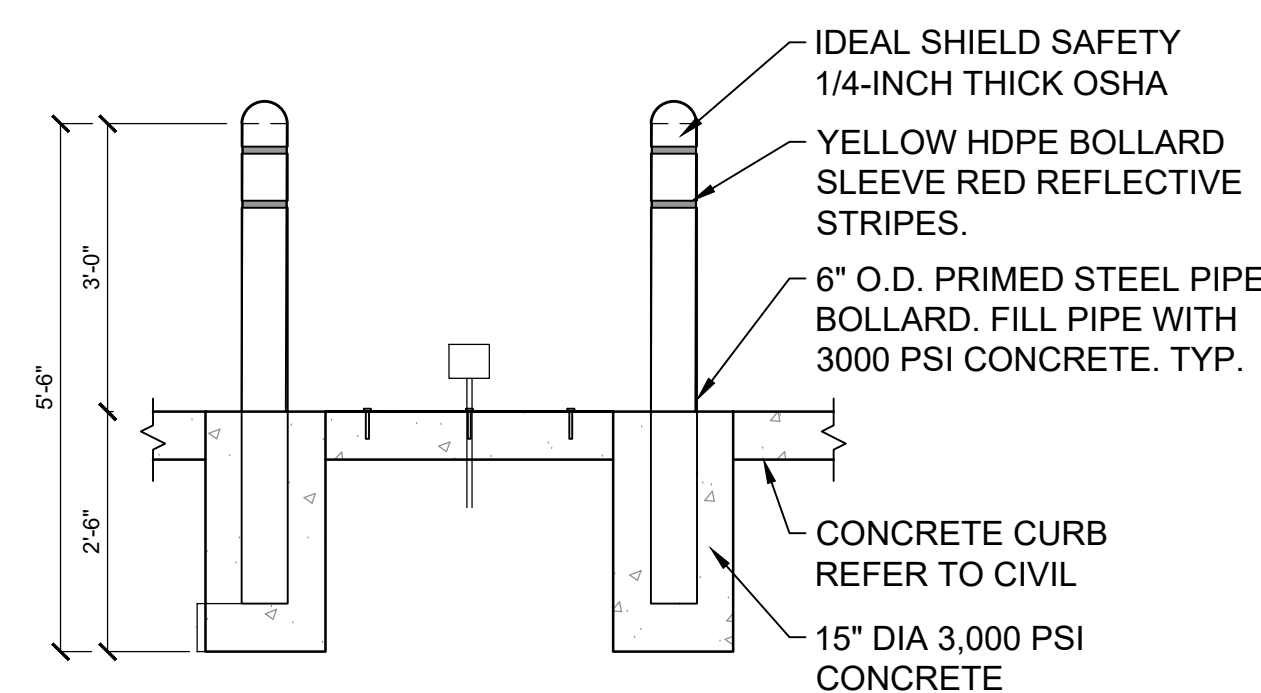
COLUMN CAP DETAIL

SCALE NOT TO SCALE 6



COLUMN DETAIL

SCALE NOT TO SCALE 7



MISC. DETAILS

SCALE NOT TO SCALE

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MISC. DETAILS

Project No.
 170-95.00

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