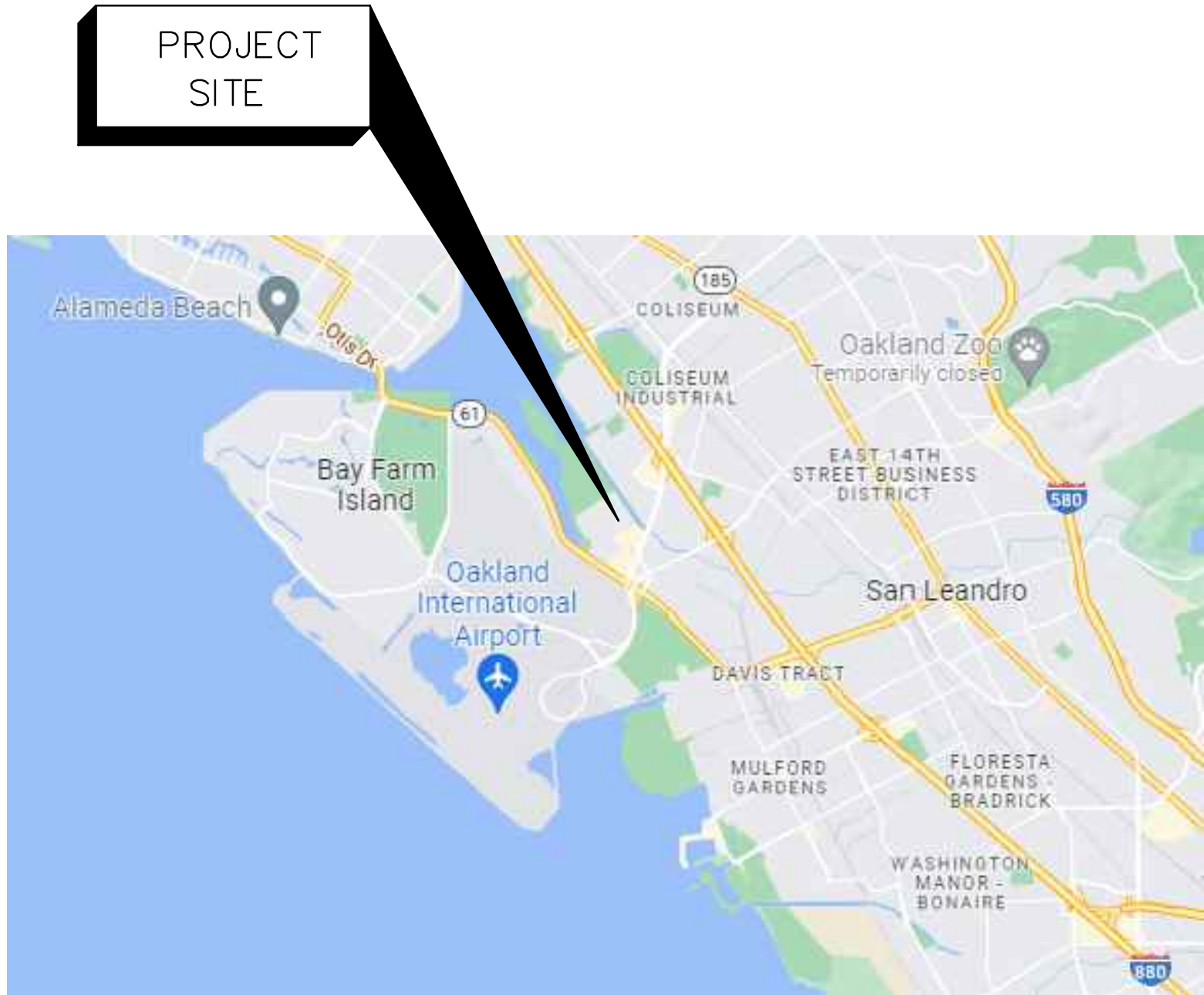


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UPS OAKLAND CA

8400 PARDEE DRIVE
OAKLAND, CA 94621



VICINITY PLAN

NOT TO SCALE



LOCATION PLAN

NOT TO SCALE

NOT FOR CONSTRUCTION
05/25/23

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1	03/22/23	CLIENT REVIEW	AZ
NO.	DATE	ISSUED FOR	BY

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2023

DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: G-0
DESIGNED BY: A. AZZAWI
DRAWN BY: K. GULDAGAD
CHECKED BY: A. AZZAWI

SHEET TITLE

GENERAL

COVER SHEET

SCALE:

NTS

G-00

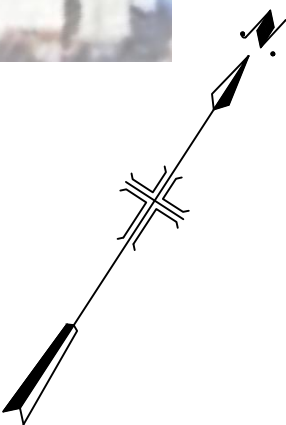
SHEET 01 OF 27

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EXISTING SITE PLAN

SCALE : 1"=50'



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PROJECT NO.: 30136437

FILE NAME: C-01 EX SITE PLAN

DESIGNED BY: J. PRIOR

DRAWN BY: J. PRIOR

CHECKED BY: D. MORAN

SHEET TITLE

CIVIL

EXISTING SITE PLAN

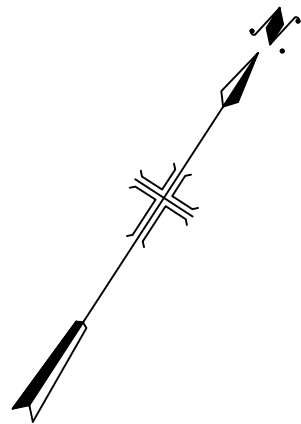
SCALE: 1"=50'

C-01
SHEET xx OF 21

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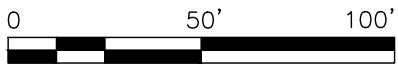


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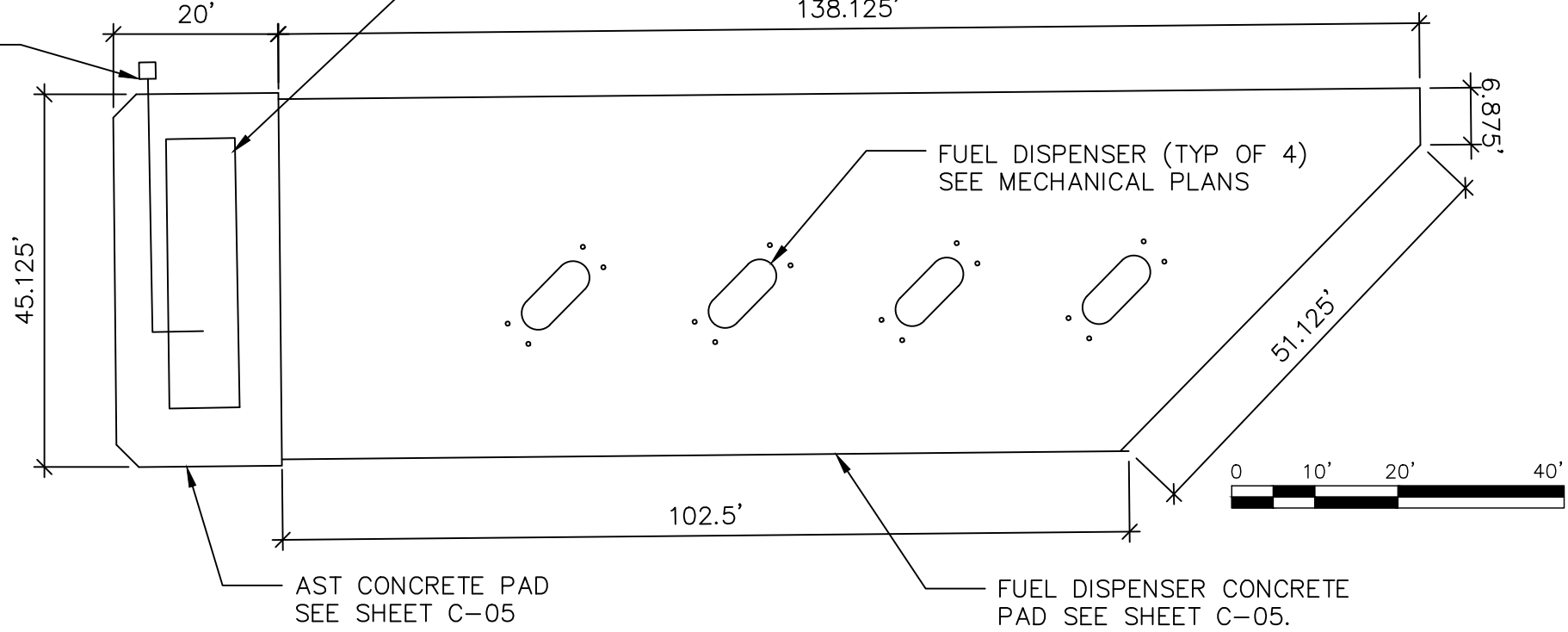


PROPOSED SITE PLAN

SCALE : 1"=50'



GROUND MOUNT VCS PROCESSOR
SEE MECHANICAL PLANS



ENLARGED AST-DISPENSER PLAN

SCALE : 1"=20'



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DATE: MAY 2023
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FILE NAME: C-02 PR SITE PLAN
DESIGNED BY: J. PRIOR
DRAWN BY: J. PRIOR
CHECKED BY: D. MORAN

SHEET TITLE

CIVIL

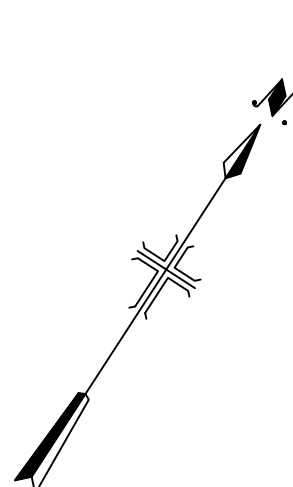
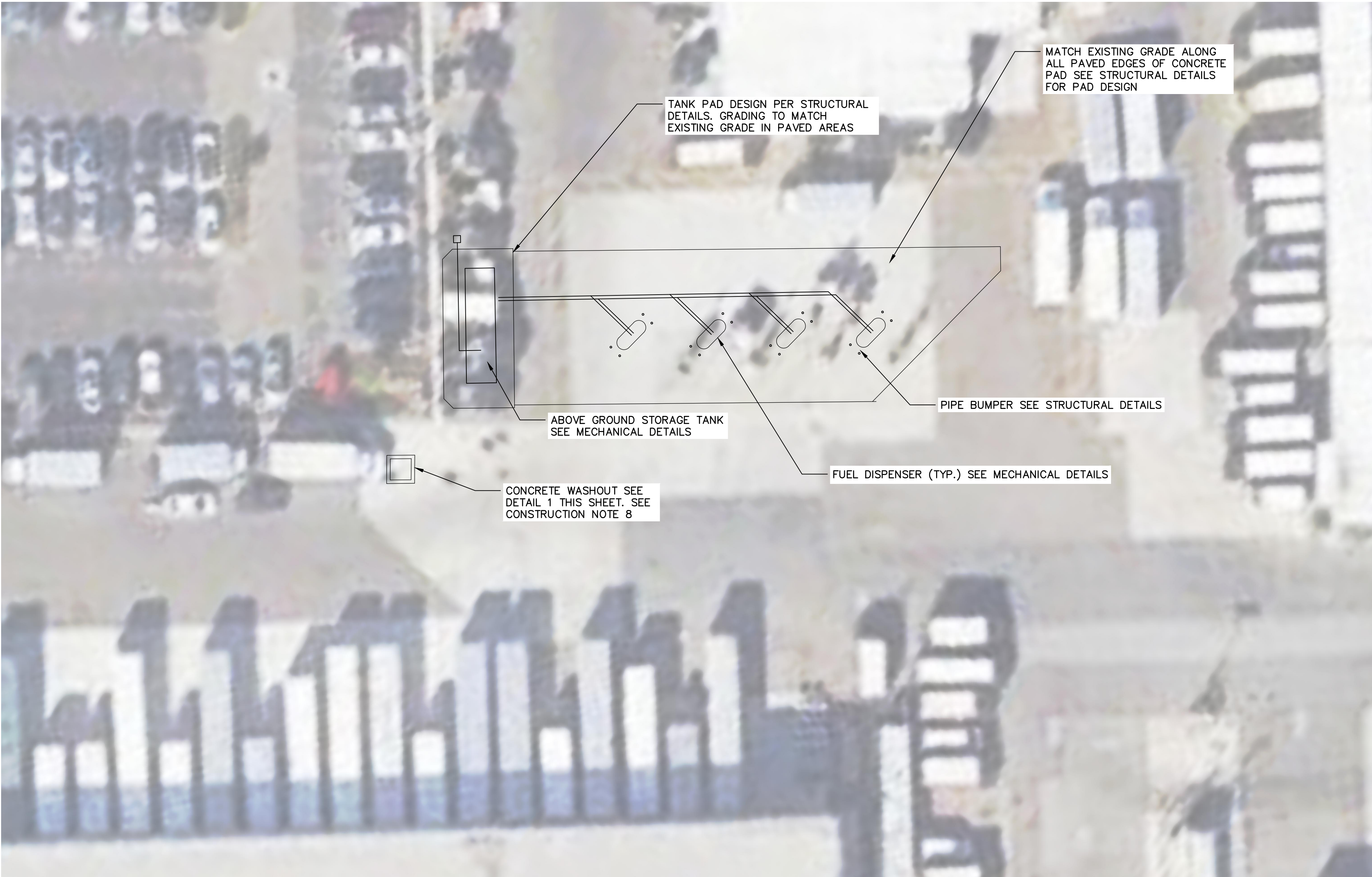
PROPOSED SITE PLAN

SCALE: AS NOTED

C-02

SHEET xx OF 21

User:PRIOR Spec:AUS-NC5MOD File:C:\USERS\PRIOR\DC\ACCDGCS\ARCADIS\AUS-UPS-CUSTOMER CENTER-OAKLAND CALIFORNIA\PROJECT FILES\2023\01-IN PROGRESS\06-SHEETS\CIVIL\C-03 GR ER PLAN.DWG Scale:1:1 SavedDate:5/4/2023 Time:07:29 Plot Date: Prior, Jena: 7/5/2023; 06:02 ; Layout:C-03

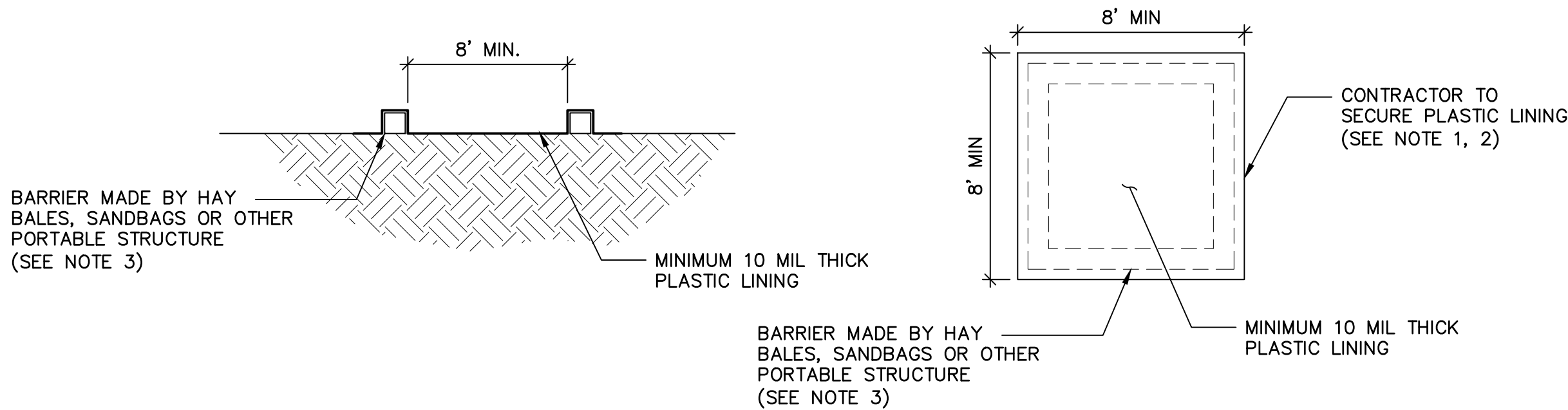
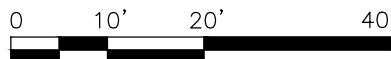


CONSTRUCTION NOTES:

1. INSTALL NEW CONCRETE PAD FOR ABOVE GROUND STORAGE TANK (AST) SKID PER DETAILS ON SHEETS C-05 AND C-06.
2. INSTALL NEW 10,000 GALLON AST PER MANUFACTURER'S RECOMMENDATIONS AND MECHANICAL SHEETS.
3. INSTALL NEW CONCRETE PAD FOR FUEL DISPENSERS PER DETAILS ON SHEETS C-05 AND C-06.
4. INSTALL FUEL DISPENSERS PER MANUFACTURER'S RECOMMENDATIONS AND MECHANICAL SHEETS THIS SET.
5. SEE ELECTRICAL PLANS FOR ELECTRICAL INSTALLATION.
6. ELEVATIONS OF THE CONCRETE AST PAD SHALL MATCH EXISTING AT THE EDGE OF THE CONCRETE PAD. IN GENERAL THE PAD SHALL BE SLOPED SUCH THAT IT DIRECTS WATER AWAY FROM THE TANK SKID. INSTALL ISOLATION JOINT AROUND CONCRETE AST PAD AS NEEDED PER DETAILS ON SHEETS C-05 AND C-06.
7. ELEVATION OF THE CONCRETE PAD FOR THE FUEL DISPENSERS SHALL MATCH EXISTING GRADE AT THE EDGE WHEN MATCHING EXISTING PAVEMENT. IN GENERAL CONCRETE PAD SHALL SLOPE TO THE TRENCH DRAIN. INSTALL ISOLATION JOINT AS NEEDED PER DETAILS ON SHEETS C-05 AND C-06.
8. ALL EROSION CONTROL AND SEDIMENT DETAILS SHOWN ARE FOR REFERENCE ONLY AND ARE NOT INTENDED TO BE COMPLETE DESIGN. CONTRACTOR SHALL PROVIDE ADEQUATE AND APPROVED EROSION AND SEDIMENT CONTROLS PER CITY, COUNTY AND STATE REQUIREMENTS. NOT ALL DETAILS MAY BE SHOWN OR INDICATED HERE MAY BE NEEDED.
9. PIPE BUMPERS FOR AST PADS NOT SHOWN. SEE MECHANICAL AND DETAILS ON SHEETS C-05 AND C-06.

PROPOSED GRADING AND EROSION AND SEDIMENT CONTROL PLAN

SCALE : 1"=20'



SECTION

PLAN

CONSTRUCTION NOTES:

1. CONTRACTOR TO SECURE PLASTIC LINING UTILIZING SAND BAGS, STONE, OR BY OTHER MEANS AS APPROPRIATE.
2. PLASTIC LINING SECUREMENT TO SURROUND ENTIRE WASHOUT PIT, EXCEPT FOR ACCESS POINT. ACCESS POINT SHALL BE KEPT TO THE MINIMUM NECESSARY WIDTH.
3. CONTRACTOR TO USE HAY BALES, SAND BAGS, OR OTHER PORTABLE STRUCTURE TO PROVIDE BARRIER AROUND CONCRETE WASHOUT. BARRIER SHALL REACH A MINIMUM OF 1' HIGH. CONTRACTOR TO ENSURE STRUCTURES USED TO CREATE WASHOUT PIT ARE PROPERLY SECURED
4. WASHOUT SHALL BE EMPTIED OF ACCUMULATED DEBRIS ONCE IT HAS HIT 75% OF IT'S STORAGE CAPACITY. DEBRIS SHALL BE REMOVED OFFSITE, AND ANY WATER WITHIN THE WASHOUT SHALL BE PUMPED AND HAULED OFFSITE FOR TREATMENT.
5. WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER, RAINWATER ACCUMULATING WITHIN THE WASHOUT MAY BE PUMPED AND DRAINED ON SITE, PROVIDED THE RAINWATER IS FREE OF CONCRETE OR OTHER DEBRIS.

1 CONCRETE WASHOUT
C-03 NOT TO SCALE



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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: C-03 GR ER PLAN
DESIGNED BY: J. PRIOR
DRAWN BY: J. PRIOR
CHECKED BY: D. MORAN

SHEET TITLE

CIVIL

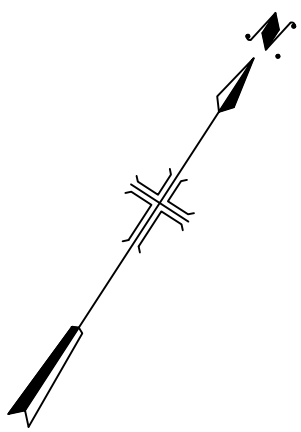
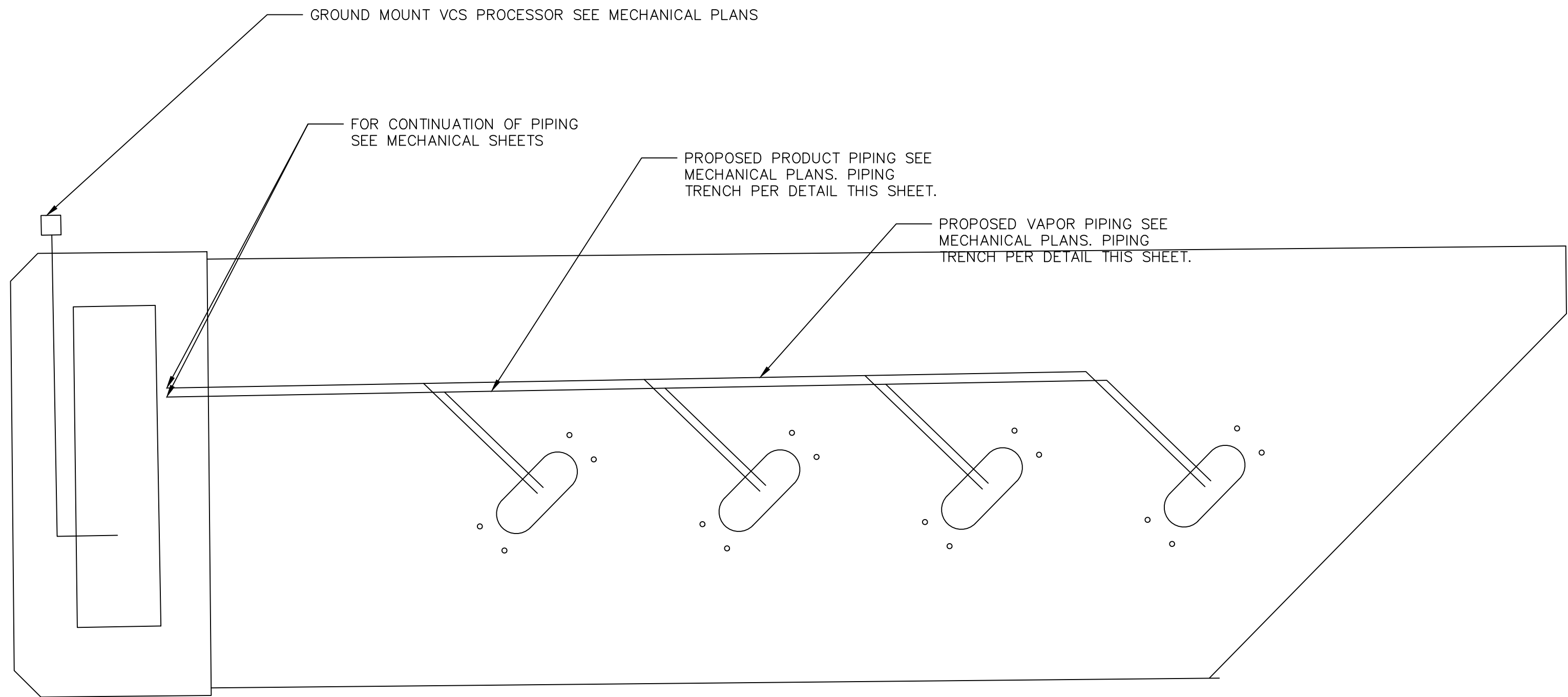
PROPOSED GRADING
PLAN & EROSION AND
SEDIMENT CONTROL
PLAN

SCALE: AS NOTED

C-03

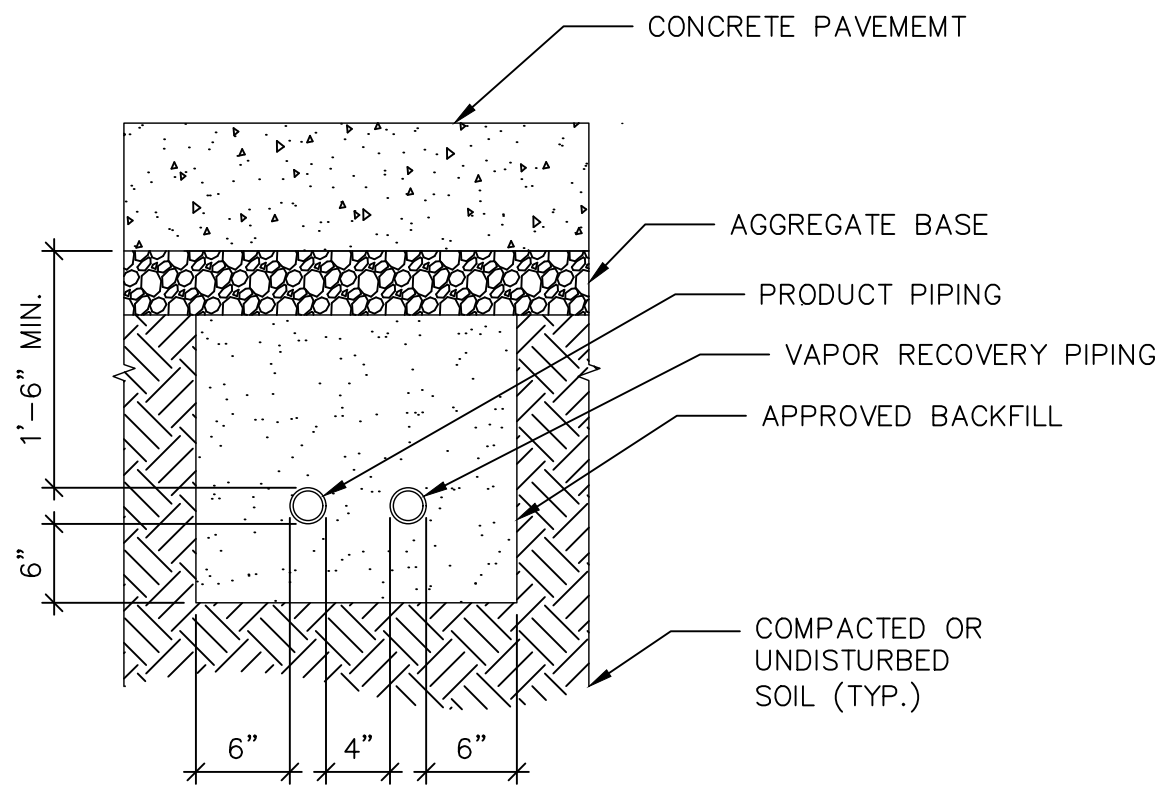
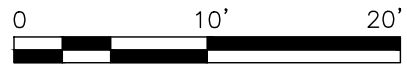
SHEET xx OF 26

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PROPOSED YARD PIPING PLAN

SCALE : 1"=10'



COMBINED PRODUCT PIPING &
VAPOR RECOVERY TRENCH SHOWN

1
C-04

PIPING TRENCH DETAIL

NOT TO SCALE



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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: C-04 UT PLAN
DESIGNED BY: J. PRIOR
DRAWN BY: J. PRIOR
CHECKED BY: D. MORAN

SHEET TITLE

CIVIL

YARD PIPING PLAN

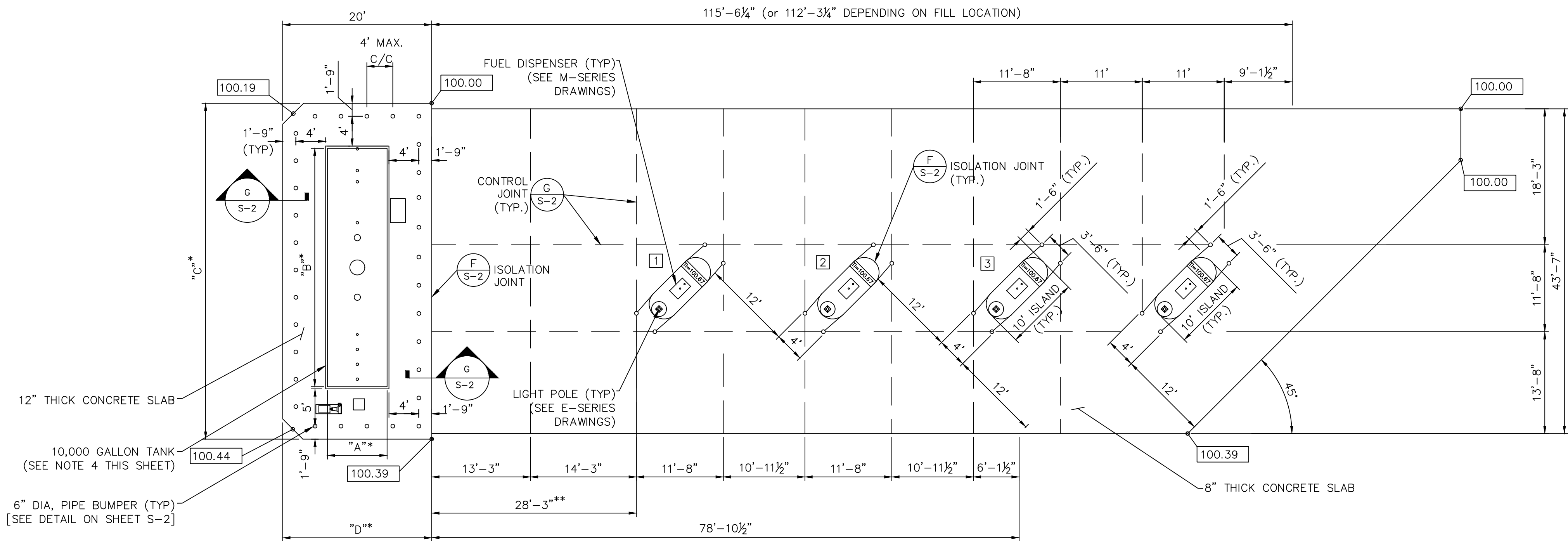
SCALE:

AS NOTED

C-04

SHEET xx OF 21

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A OVERALL PLAN
SCALE: 1" = 10'-0"

DW UL 2085 AST – CHART SPECIFICATION					
APPROX. CAPACITY (GALLONS)	"A" INTERIOR DIA.	"B" LENGTH (INNER)	"B" LENGTH (OUTER)	"C" TANK SLAB LENGTH (APPROX.)	"D" TANK SLAB WIDTH (APPROX.)
10,000	96"*	26'-8"*	27'-3"*	43'-7"*	18'-6"*

NOTES:

- FOUNDATION DESIGN IS BASED UPON 1,500 PSF ALLOWABLE BEARING PRESSURE, IN CONFORMANCE WITH INTERNATIONAL BUILDING CODE 2021 TABLE 1806.2 FOR CLASSIFICATION(S) SW, SP, SM, SC, GM AND/OR GC, A LICENSED GEOTECHNICAL ENGINEER SHALL INSPECT THE EXCAVATION AND EXISTING SUBGRADE TO CONFIRM 1,500 PSF BEARING IS ALLOWED FOR THE FOUNDATIONS.
- THE TANK MANUFACTURER IS RESPONSIBLE FOR ANALYZING THE PROPOSED 10,000-GALLON TANK FOR SEISMIC LOADS TO EVALUATE THE TANK'S INTEGRITY AND CAPACITY TO WITHSTAND APPLIED SEISMIC FORCES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021 AND CALIFORNIA BUILDING CODE 2022. TANK MANUFACTURER TO PROVIDE SADDLE SUPPORT REACTION LOADS (SIGNED AND SEALED BY CALIFORNIA PE) TO THE ENGINEER DURING THE CONSTRUCTION PHASE TO VERIFY FOUNDATION SIZES/SPEC DESIGN.
- ANCHOR BOLTS FOR TANK SADDLE BASE PLATE TO BE DESIGNED, DETAILED, AND PROVIDED BY TANK MANUFACTURER. ANCHOR BOLT DESIGNS AND DETAILS TO BE SIGNED AND SEALED BY CALIFORNIA PE.
- ELEVATIONS SHOWN IN PLAN ARE RELATIVE TO THE TANK AND THE REINFORCED CONCRETE PAD AND DO NOT REPRESENT ACTUAL ELEVATIONS.

* VERIFY PER APPROVED TANK MANUFACTURER'S EQUIPMENT SHOP DRAWINGS.

** LANE WIDTH MAY BE REDUCED BY 4'-0" IF TANKER TRUCK CAN FILL ALONG SIDE REMOTE FILL BOX.



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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: C-05 AST PAD
DESIGNED BY: ZCL
DRAWN BY: HAA
CHECKED BY: MSL

SHEET TITLE

STRUCTURAL

ABOVE GROUND
STORAGE TANK PAD

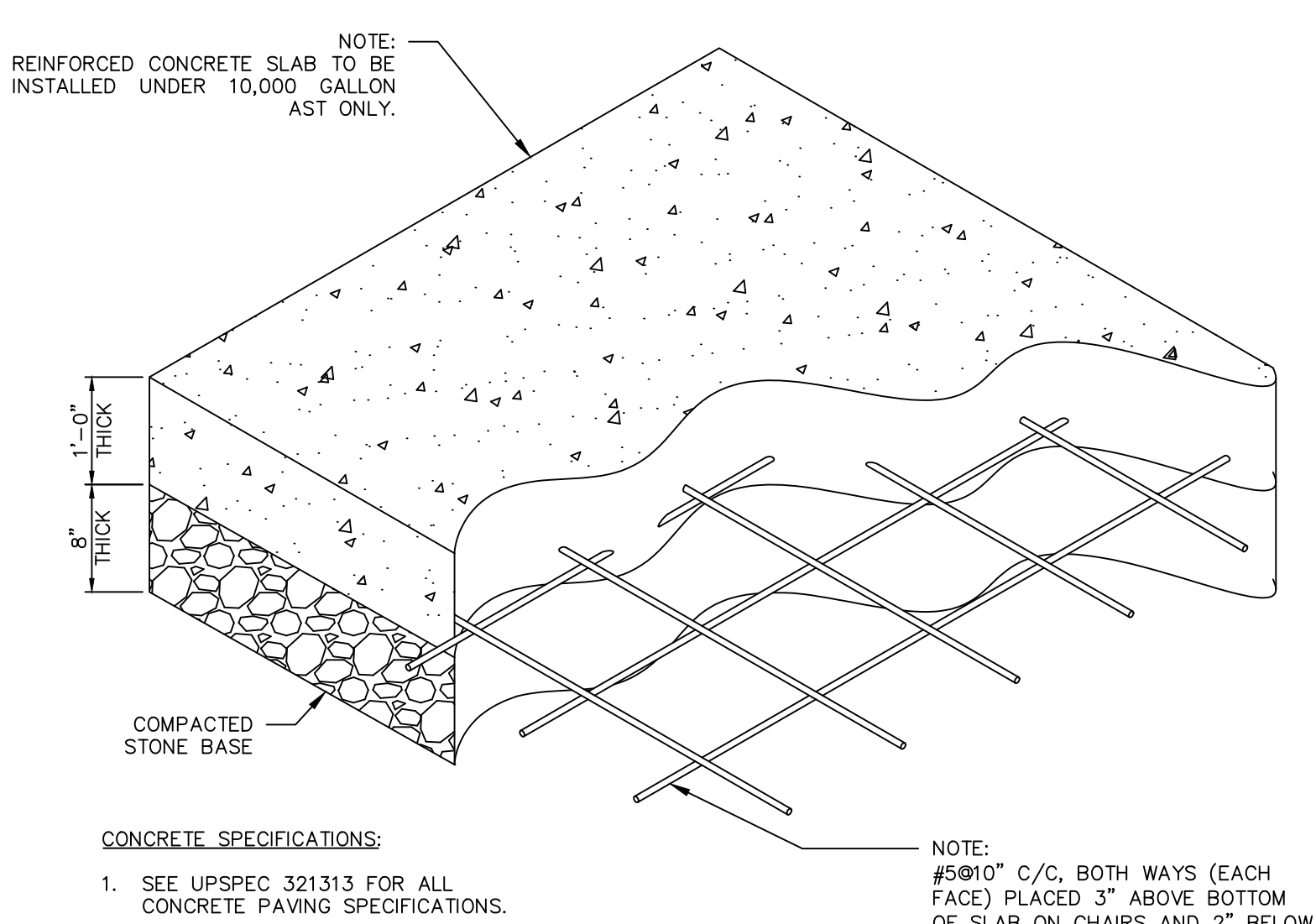
SCALE:

SCALE: 1" = 10'-0"

C-05

SHEET XX OF 21

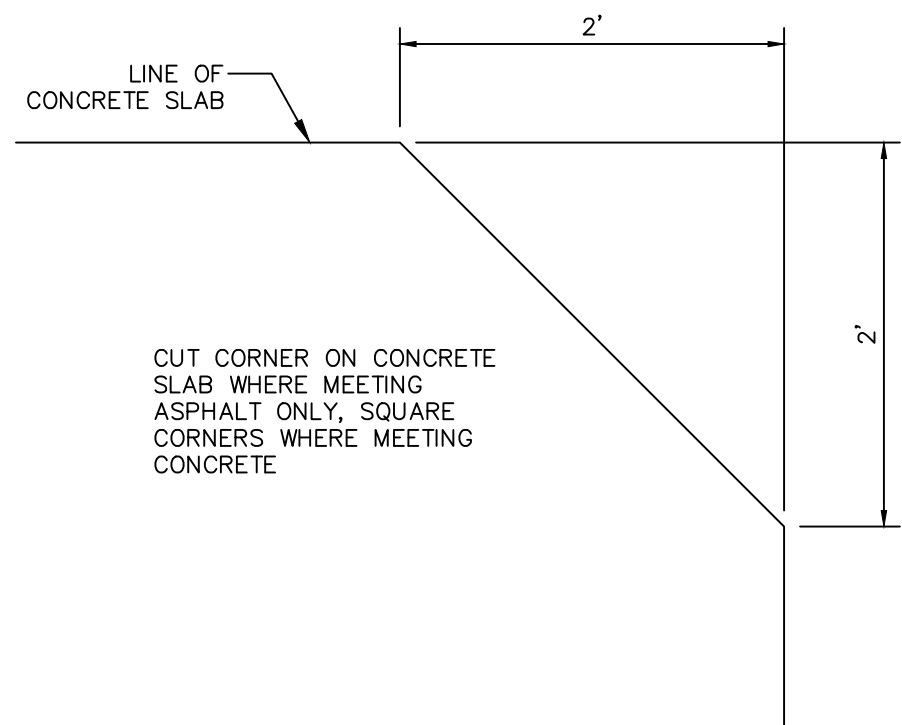
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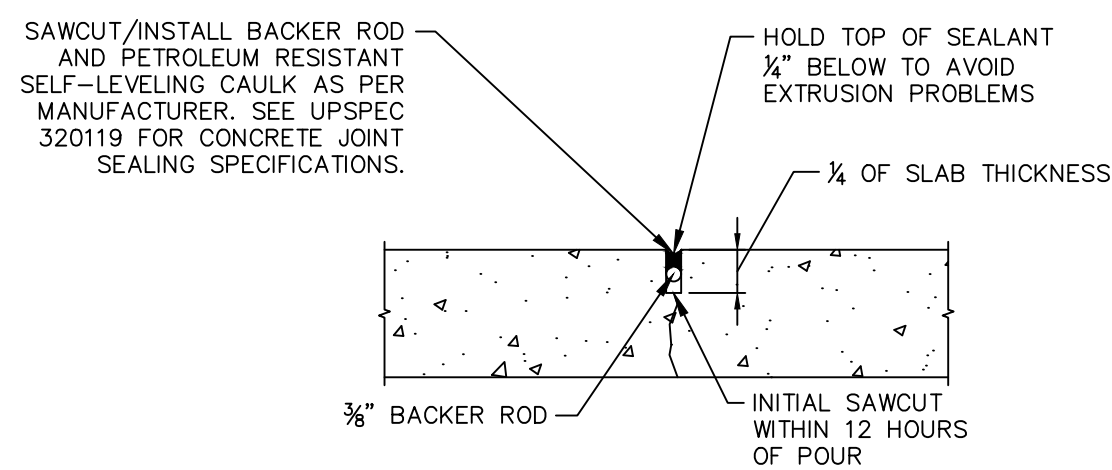
A TYPICAL AST CONCRETE SLAB DETAIL
SCALE: 1" = 1'-0"

NOTES:

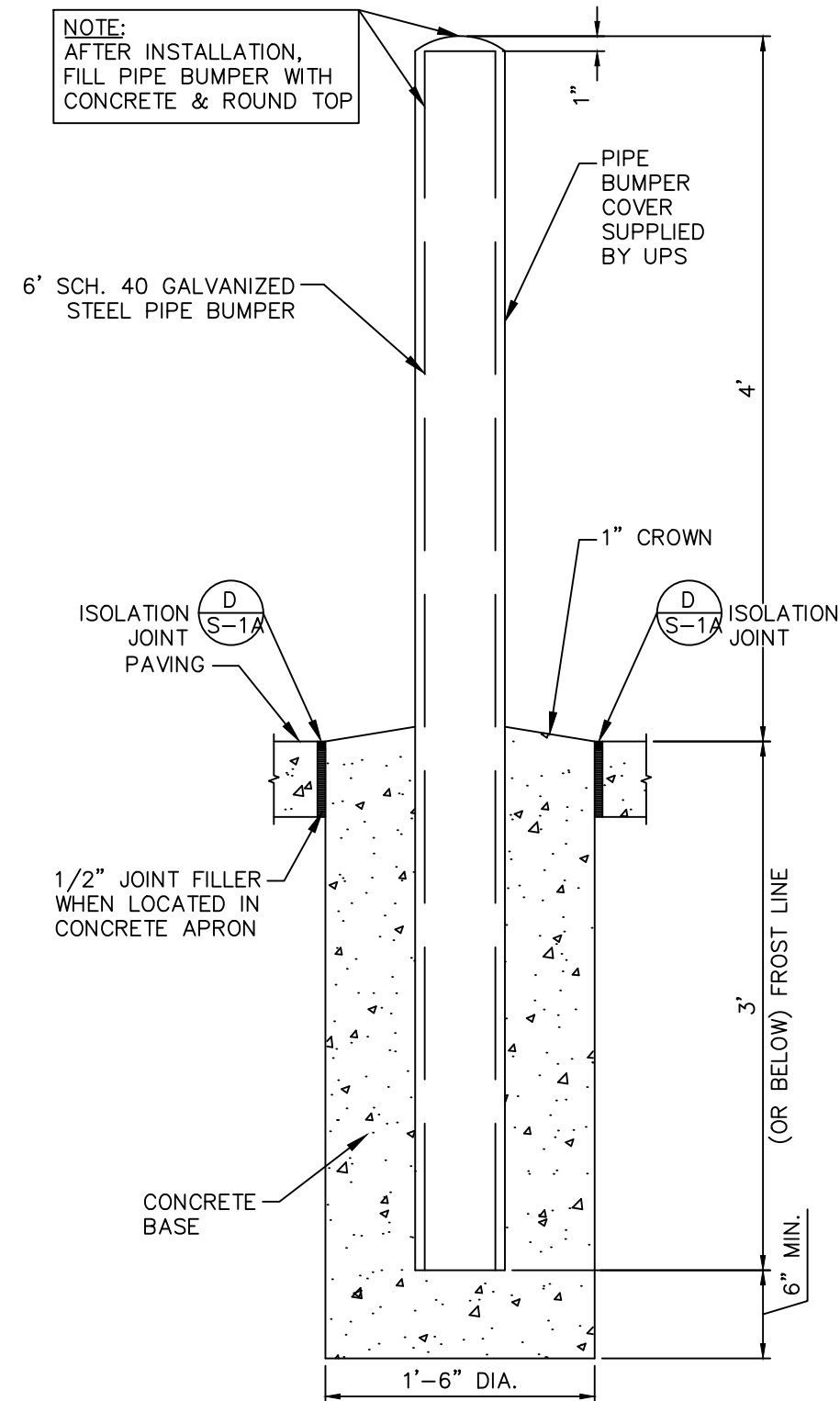
1. COMPACT THE UPPER FOOT OF THE SUBGRADE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST, (ASTM D-1557) PRIOR TO PLACEMENT OF COMPACTED STONE BASE.
2. SEE UPSPEC 321313 FOR ALL CONCRETE SPECIFICATIONS.



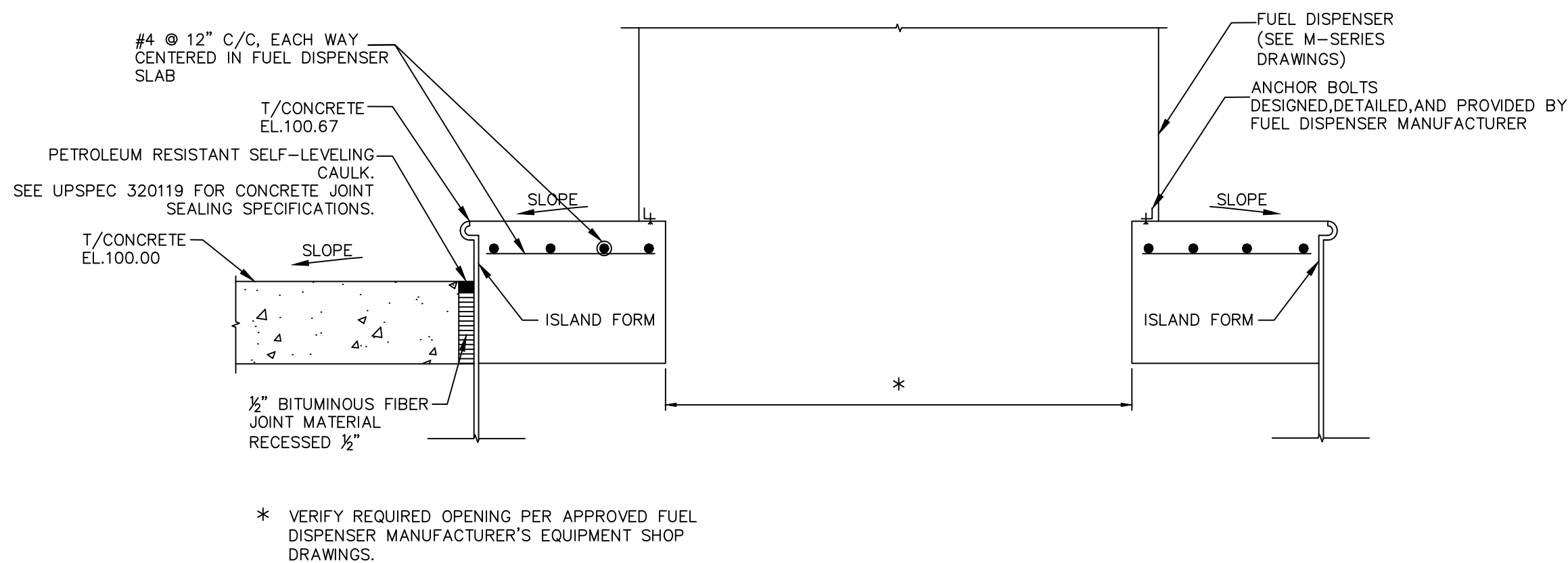
D CONCRETE CORNER DETAIL
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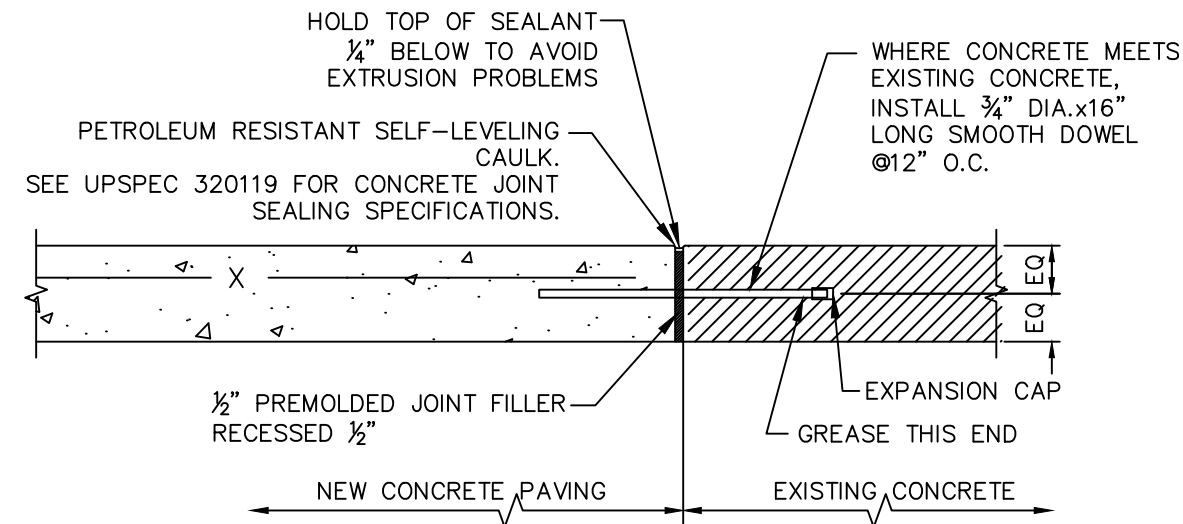
F CONTROL JOINT DETAIL
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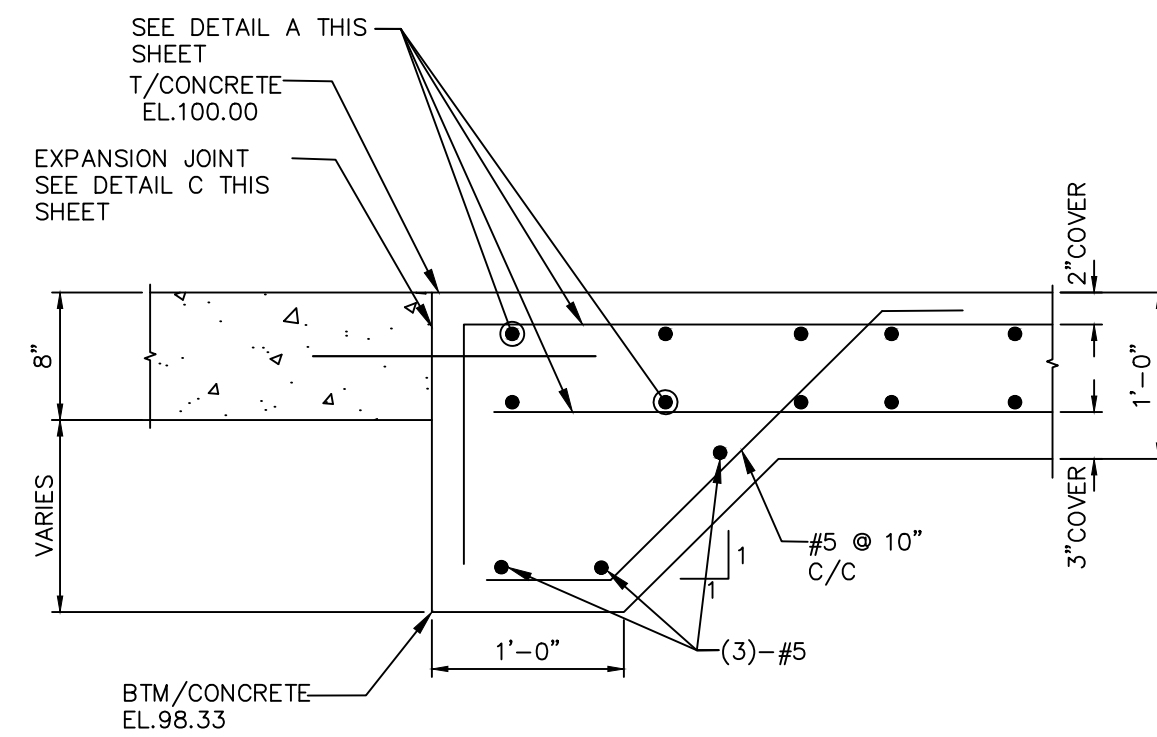
B PIPE BUMPER DETAIL
SCALE: 1" = 1'-0"



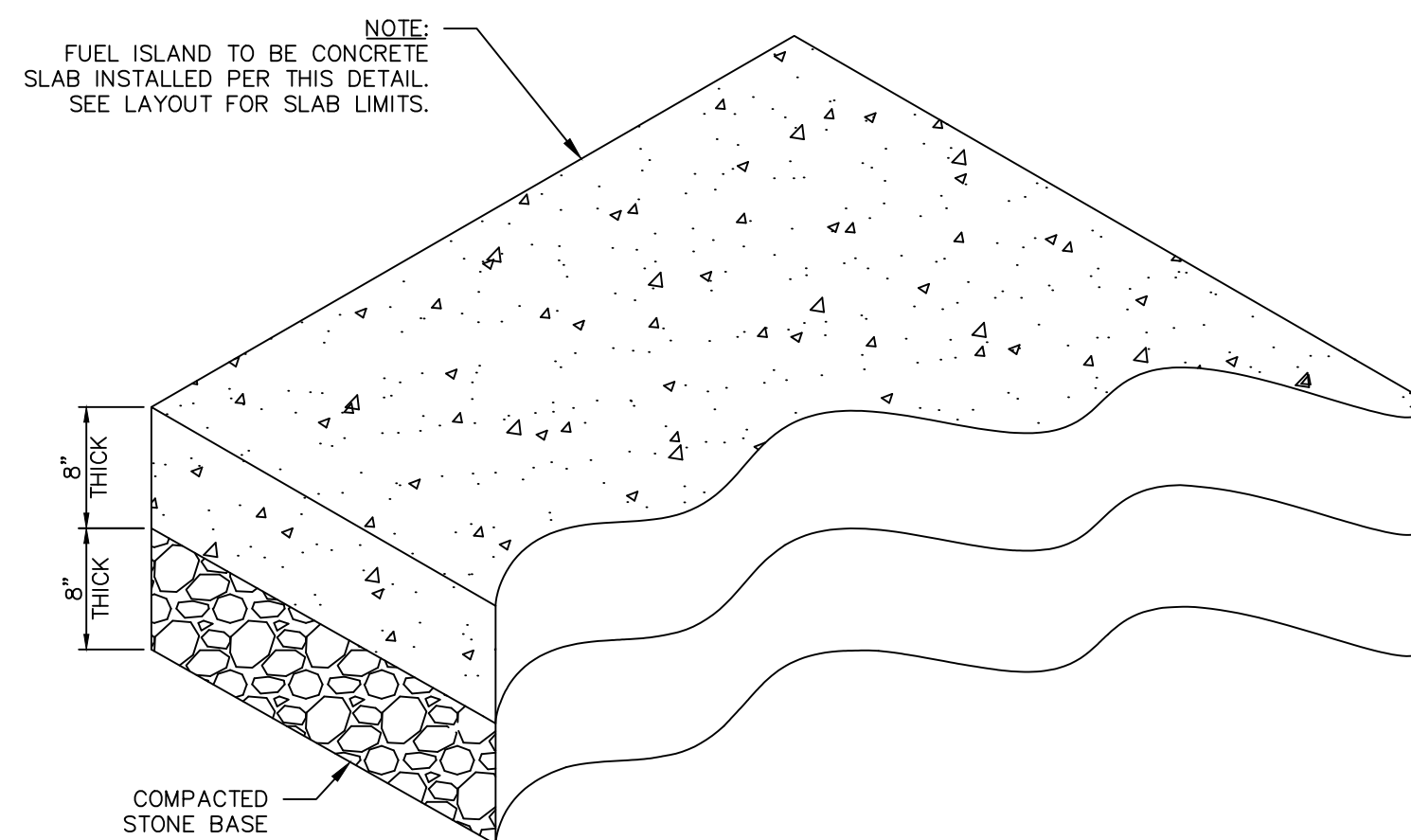
E ISOLATION JOINT DETAIL
SCALE: 1" = 1'-0"



C EXPANSION JOINT DETAIL
SCALE: 1" = 1'-0"



G SECTION
SCALE: 1" = 1'-0"



CONCRETE SPECIFICATIONS:

1. SEE UPSPEC 321313 FOR ALL
CONCRETE PAVING SPECIFICATIONS.

J 8" CONCRETE SLAB DETAIL
SCALE: 1" = 1'-0"



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FILE NAME: C-06 STC DET
DESIGNED BY: ZCL
DRAWN BY: HAA
CHECKED BY: MSL

SHEET TITLE

STRUCTURAL

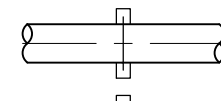




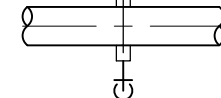




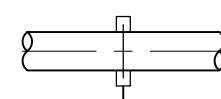



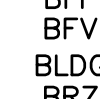
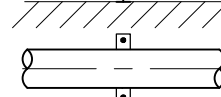



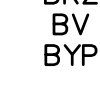
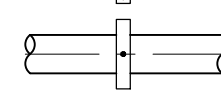



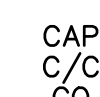
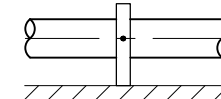



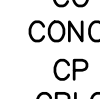
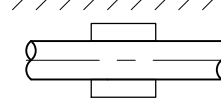



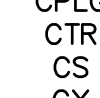
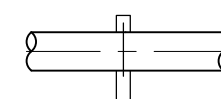



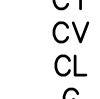
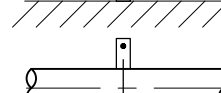



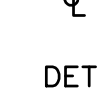
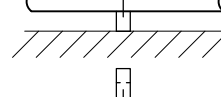




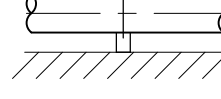



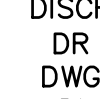







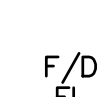



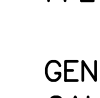
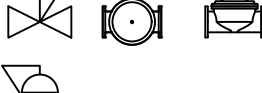
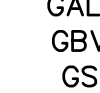
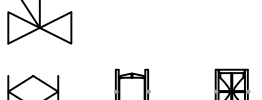
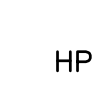

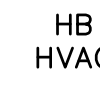



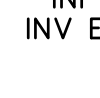






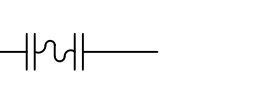
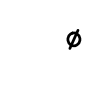
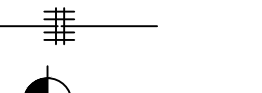

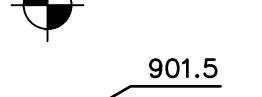

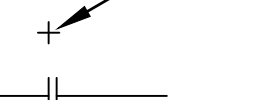
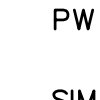

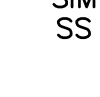
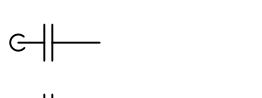
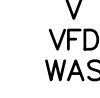
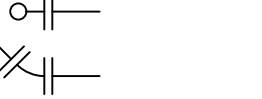



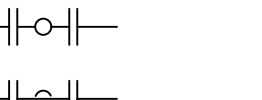











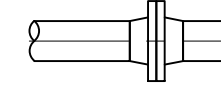
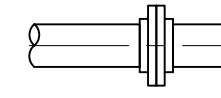
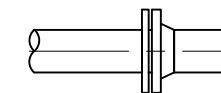
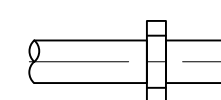
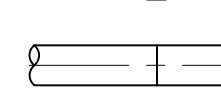
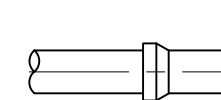

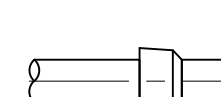
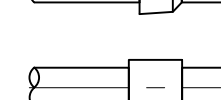
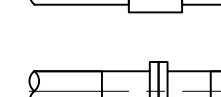
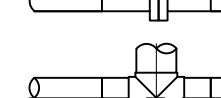
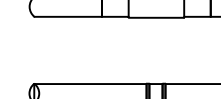
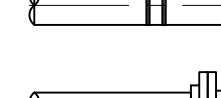


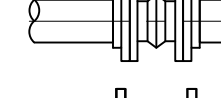
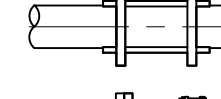
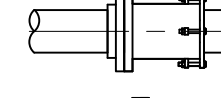
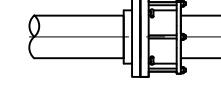
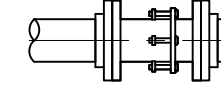
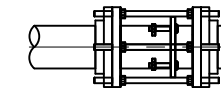
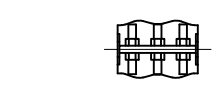
STANDARD
STRUCTURAL DETAILS

SCALE:

SCALE: 1" = 1'-0"

C-06
SHEET XX OF 21

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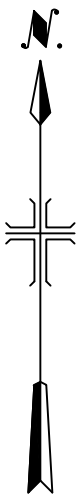
PIPE SUPPORT LEGEND		SCHEMATIC VALVE LEGEND		ABBREVIATIONS		NOTES:
	STANCHION SADDLE PIPE SUPPORT	  	AIR RELEASE VALVE (AR)		APPROX AUTO ARV	
	FLOOR BRACED STANCHION SADDLE PIPE SUPPORT	  	AIR/VACUUM VALVE (AV) COMBINATION AIR VALVE (CA)		BF BFP BFV BLDG BRZ BV BYP	
	WALL BRACED STANCHION SADDLE PIPE SUPPORT	  	BALL VALVE (BA)		BLIND FLANGE BACKFLOW PREVENTER BUTTERFLY VALVE	
	H-STYLE SUPPORT	  	BALL CHECK VALVE (BC)		BUILDING BRONZE BALL VALVE BYPASS	
	CLEVIS HANGER PIPE SUPPORT	  	BUTTERFLY VALVE (BFV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
	WALL-MOUNTED CLEVIS HANGER PIPE SUPPORT	  	BUTTERFLY DAMPER (BD)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
	CONCRETE PIPE SUPPORT	  	CHECK VALVE (CH)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
	WALL BRACKET PIPE SUPPORT	  	TELESCOPING VALVE (TV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
	WALL BRACKET TRAPEZE PIPE SUPPORT	  	DIAPHRAGM VALVE (DV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
	STACKED RACK PIPE SUPPORT	  	SUCTION FOOT VALVE (FV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
	BEAM PIPE SUPPORT	  	THREE-WAY PLUG VALVE (TW)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			FOUR-WAY VALVE (FW)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			GLOBE VALVE (GL)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			GATE VALVE (GV) CURB STOP (CS)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			KNIFE GATE VALVE (KV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			MUD VALVE (MD)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			NEEDLE VALVE (NV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			PINCH VALVE (PI)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			AUTOMATIC PRESSURE REDUCING VALVES (PR)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			AUTOMATIC PRESSURE SUSTAINING VALVES (PS)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			ECCENTRIC PLUG VALVE (PV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			FLOAT CHECK VALVE (FCV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			RELIEF VALVE (RV)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			SLUICE GATE (SL)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			SLIDE GATE (SG) SLIDE PLATE (SP)		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			SOLENOID VALVE (SV) FO=FAIL OPEN FC=FAIL CLOSED		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			VENTURI STYLE FLOW METER		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			FLEXIBLE EXPANSION JOINT		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			MECHANICAL COUPLING		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			ELEVATION TARGET		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			SPOT ELEVATION		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			FLANGED FITTING		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			90 DEG ELBOW		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			ELBOW -- TURNED DOWN		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			ELBOW -- TURNED UP		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			45 DEG ELBOW		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			TEE		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			TEE -- OUTLET UP		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			TEE -- OUTLET DOWN		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			COMBINATION WYE & 1/8 BEND		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			WYE		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			CONCENTRIC REDUCER		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
			ECCENTRIC REDUCER		CAP C/C CO CONC CP CPLG CTR CS CY CV CL CL	
PIPING SYMBOLS						NOTES:
		WELD NECK FLANGE				
		FLANGED				
		MECHANICAL JOINT				
		GROOVED END				
		WELDED				
		CONCRETE BELL & SPIGOT				
		CPVC/PVC/COPPER				
		FASTITE (RESTRAINED JOINT)				
		FORGED STEEL SOCKET/THREADED				
		HDPE IPS (FLANGED)				
		HDPE IPS				
		CAST IRON HUBLESS				
		FLANGED FLARE				
		BLIND FLANGE				
		EXPANSION JOINT				
		FLEXIBLE COUPLING				
		FLANGED COUPLING ADAPTER				
		FLANGED COUPLING ADAPTER				
		DISMANTLING JOINT				
		HARNESSED DISMANTLING JOINT				
		EXPANSION COUPLING				
		RESTRAINED COUPLING				

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SITE PLAN

SCALE : N.T.S



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NO.	DATE	ISSUED FOR	BY

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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: M-03
DESIGNED BY: A. AZZAWI
DRAWN BY: K. GULDAGAD
CHECKED BY: A. AZZAWI

SHEET TITLE

MECHANICAL

SITE PLAN

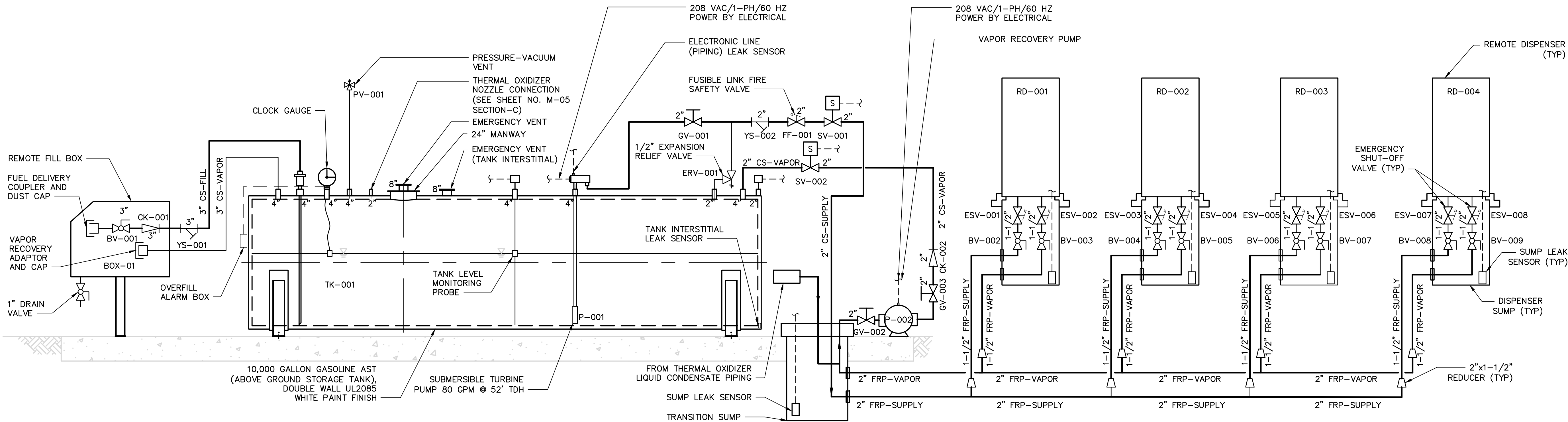
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M-03

SHEET 04 OF 27

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- NOTES:
- LADDER AND PLATFORM NOT SHOWN FOR CLARITY.
 - FUSIBLE LINK VALVE AT DISCHARGE OF PUMP.
 - TANK VENT WILL BE AT MINIMUM 12'-0" ABOVE GRADE.



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NO.	DATE	ISSUED FOR	BY	

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FILE NAME: M-04
DESIGNED BY: A. AZZAWI
DRAWN BY: K. GULDAGAD
CHECKED BY: A. AZZAWI

SHEET TITLE

MECHANICAL

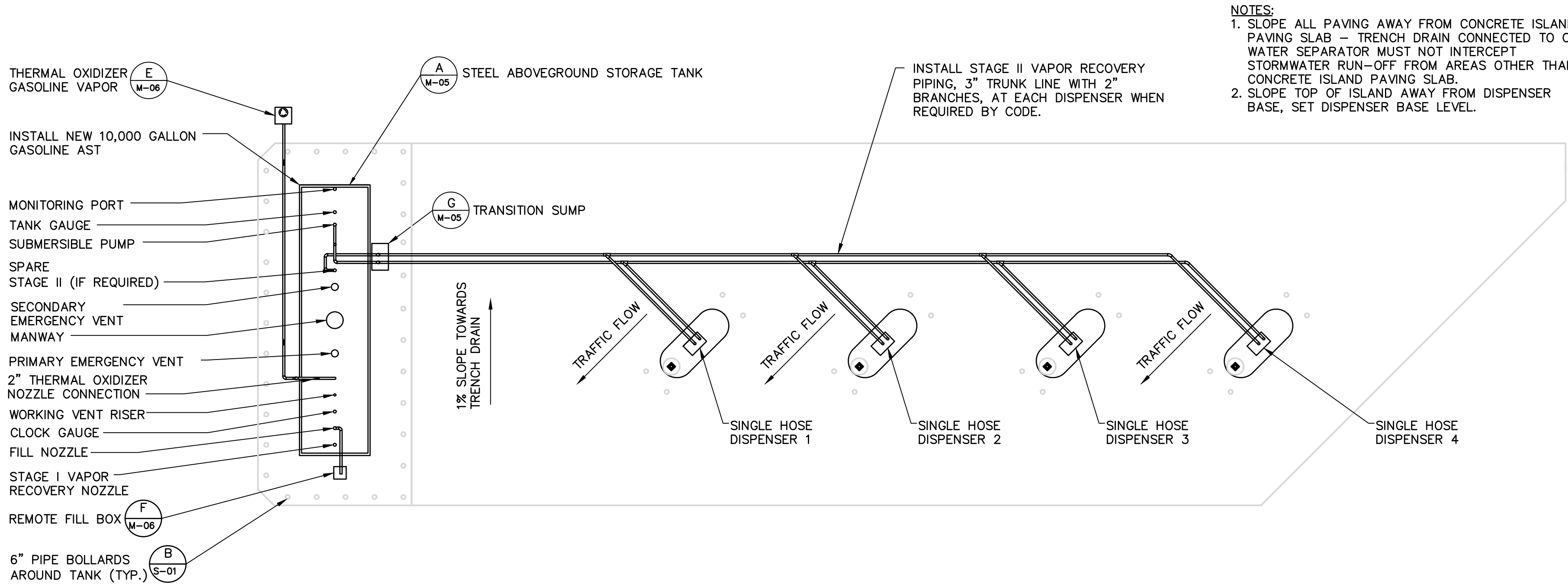
GASOLINE DISPENSING
SYSTEM SCHEMATIC &
PROCESS FLOW

SCALE: N.T.S.

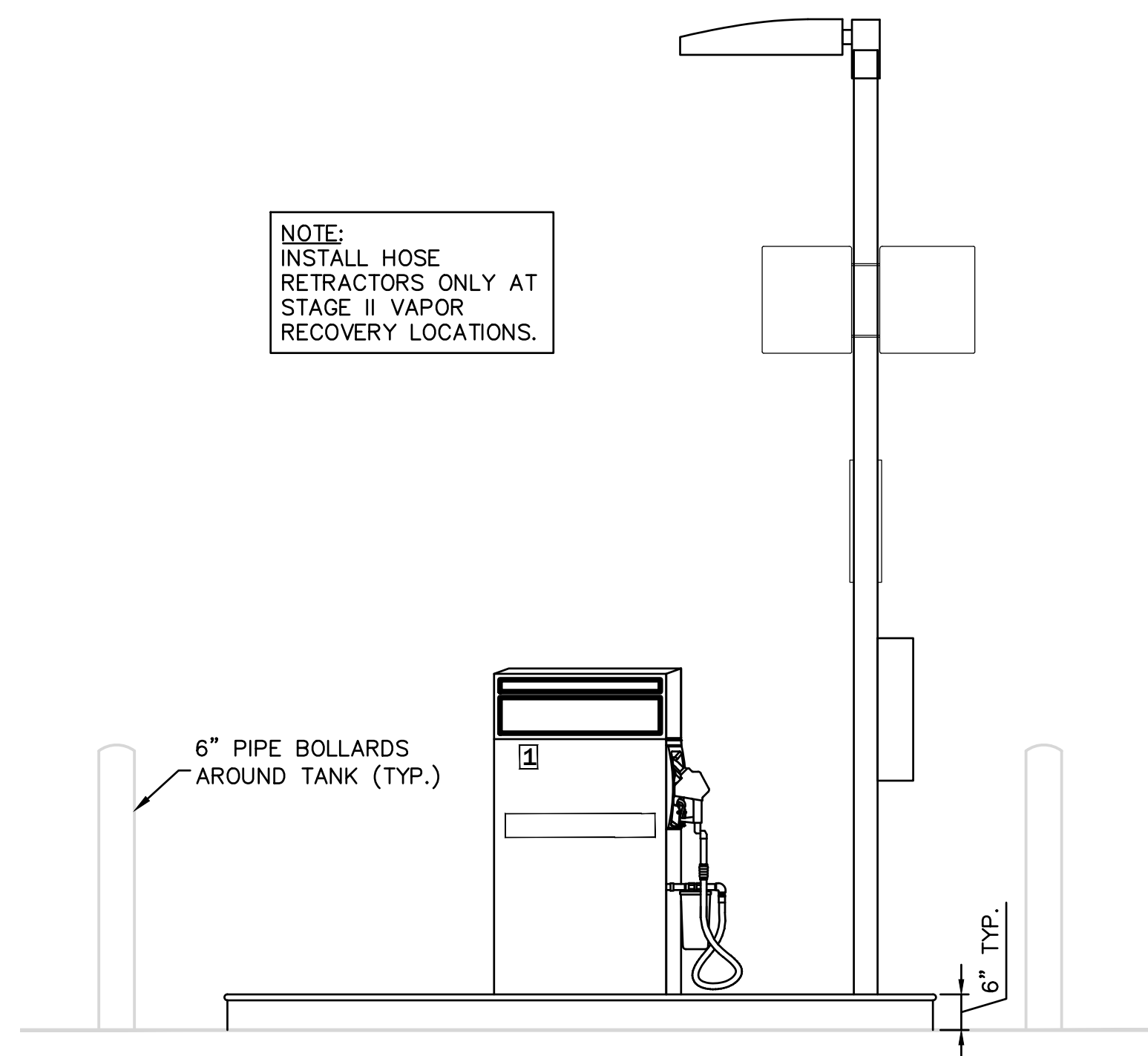
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SHEET 13 OF 27

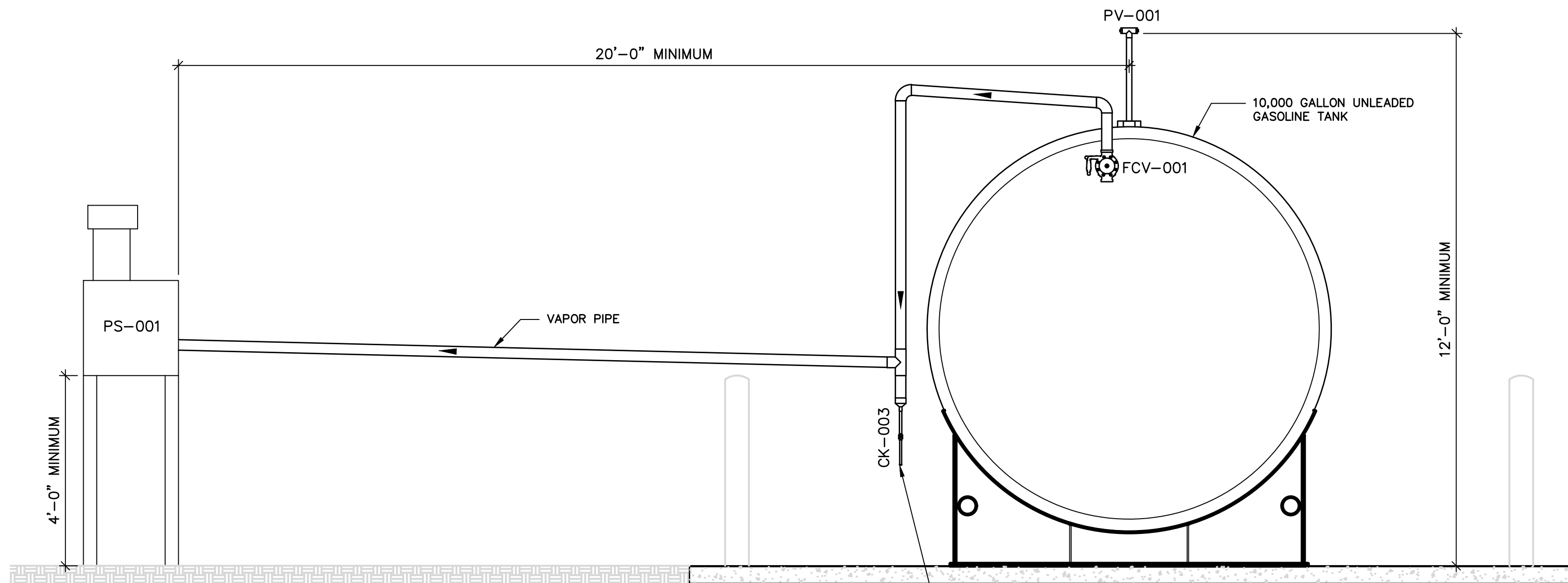
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A TYPICAL PIPING LAYOUT
SCALE: 1" = 10'-0"



B DISPENSER ISLAND ELEVATION
SCALE: 1/2" = 1'-0"



EQUIPMENT LEGEND		
TAG NO.	SERVICE	ITEMS
FCV-001	FLOAT CHECK VALVE	2" EXTRACTOR FITTING W/BALL FLOAT CHECK VALVE
CK-003	CHECK VALVE	1/4" CHECK VALVE (HIRT P/N P65). CONNECT TO STAGE II VAPOR RECOVERY PIPE.
PS-001	HIRT THERMAL OXIDIZER	HIRT MODEL VCS 100-2 VAPOR TEK PROCESSOR WITH INDICATOR PANEL
MISC.	VAPOR PIPE	2" CS SINGLE WALL PIPING 150#

C TYPICAL THERMAL OXIDIZER PROCESSOR SECTION
SCALE: 1/2" = 1'-0"

FUEL TANK NOTE:

- TANK SLAB "C" and "D" DIMENSIONS CALCULATED FOR A DOUBLE WALL UL 2085 TANK CONFIGURATION. DESIGN ENGINEER TO PROVIDE TANK SLAB DIMENSIONS FOR ALTERNATE DESIGN.
- LOCAL FIRE CODE MAY ALLOW UL 142 TANK(S) TO BE INSTALLED. VERIFY MINIMUM SEPARATION REQUIREMENTS IN NFPA30A TABLE 4.3.2.4 AND CONFIRM WITH LOCAL FIRE AUTHORITY PRIOR TO ORDER. SEE MANUFACTURER'S TANK SIZE CHARTS FOR TANK DIMENSIONS.
- ALL DIMENSIONS BASED ON HIGHLAND TANK SIZES. CONFIRM ACTUAL DIMENSIONS WITH TANK MANUFACTURER.



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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: M-05
DESIGNED BY: A. AZZAWI
DRAWN BY: K. GULDAGAD
CHECKED BY: A. AZZAWI

SHEET TITLE

MECHANICAL

AST FUEL LAYOUT AND
HOSE DISPENSERS

SCALE:

AS SHOWN

M-05

SHEET 14 OF 27



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DATE: MAY 2023

PROJECT NO.: 30136437

FILE NAME: M-06

DESIGNED BY: A. AZZAWI

DRAWN BY: K. GULDAGAD

CHECKED BY: A. AZZAWI

SHEET TITLE

MECHANICAL

GASOLINE TANK & EQUIPMENT DETAILS

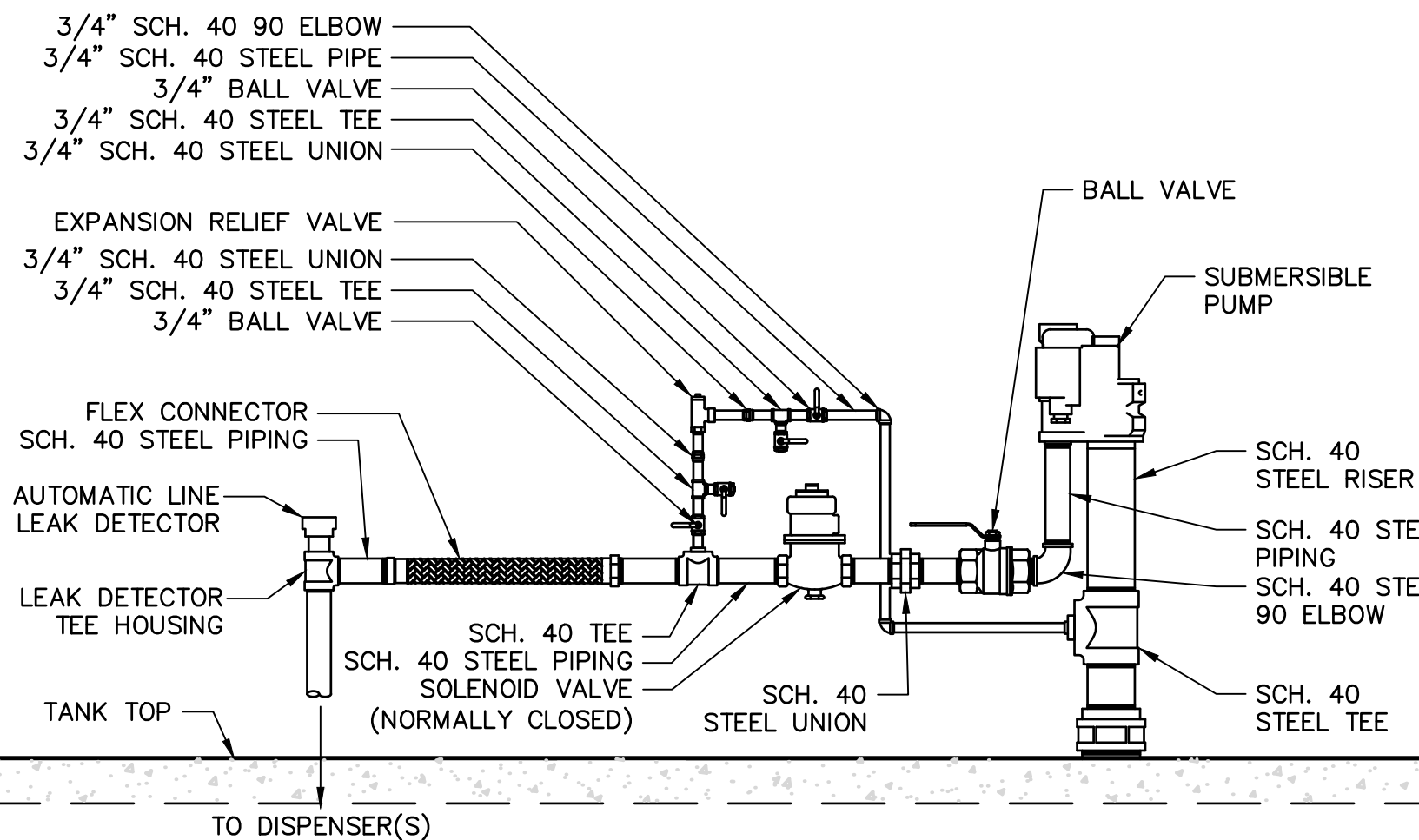
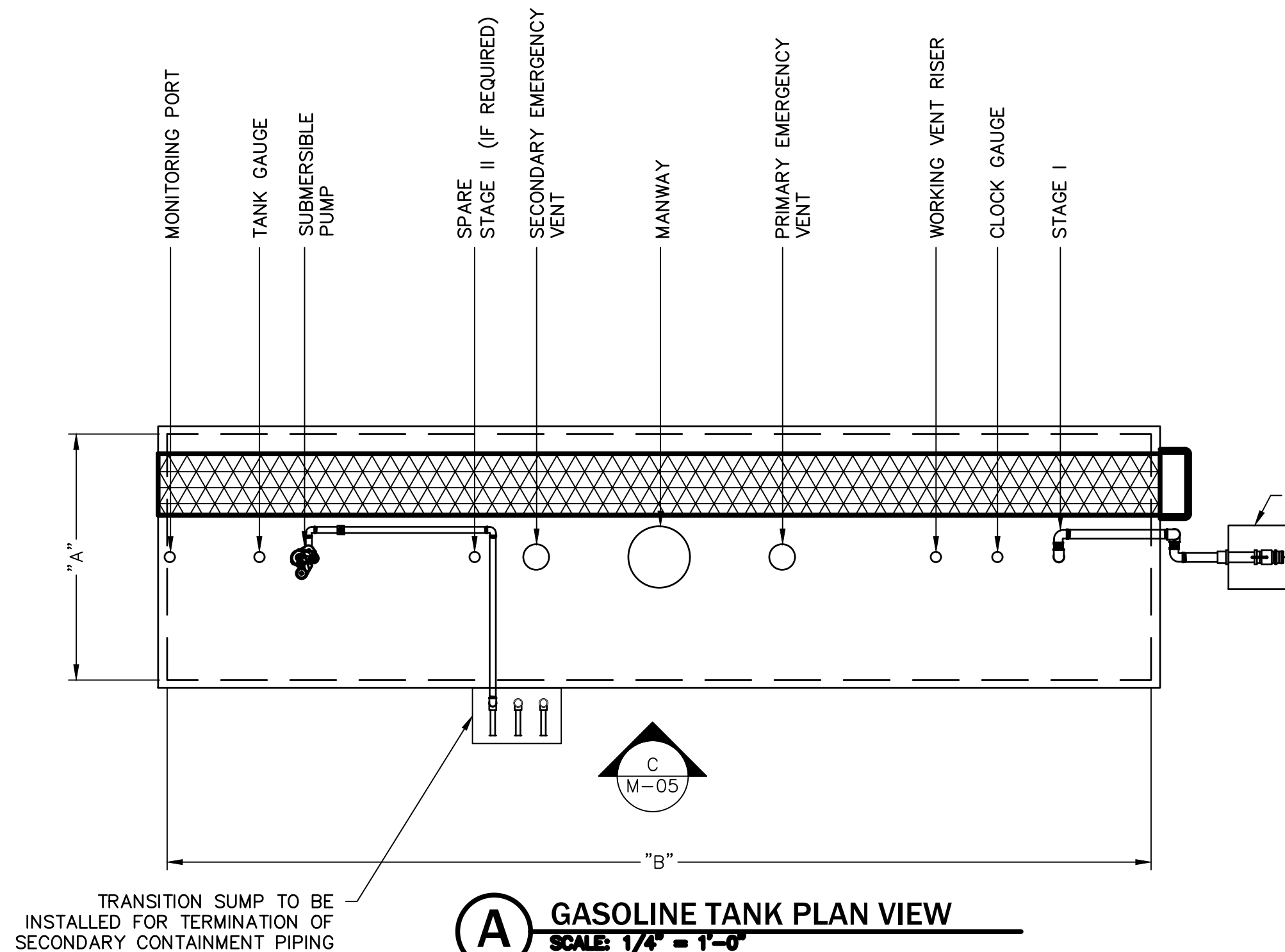
SCALE: AS SHOWN

M-06

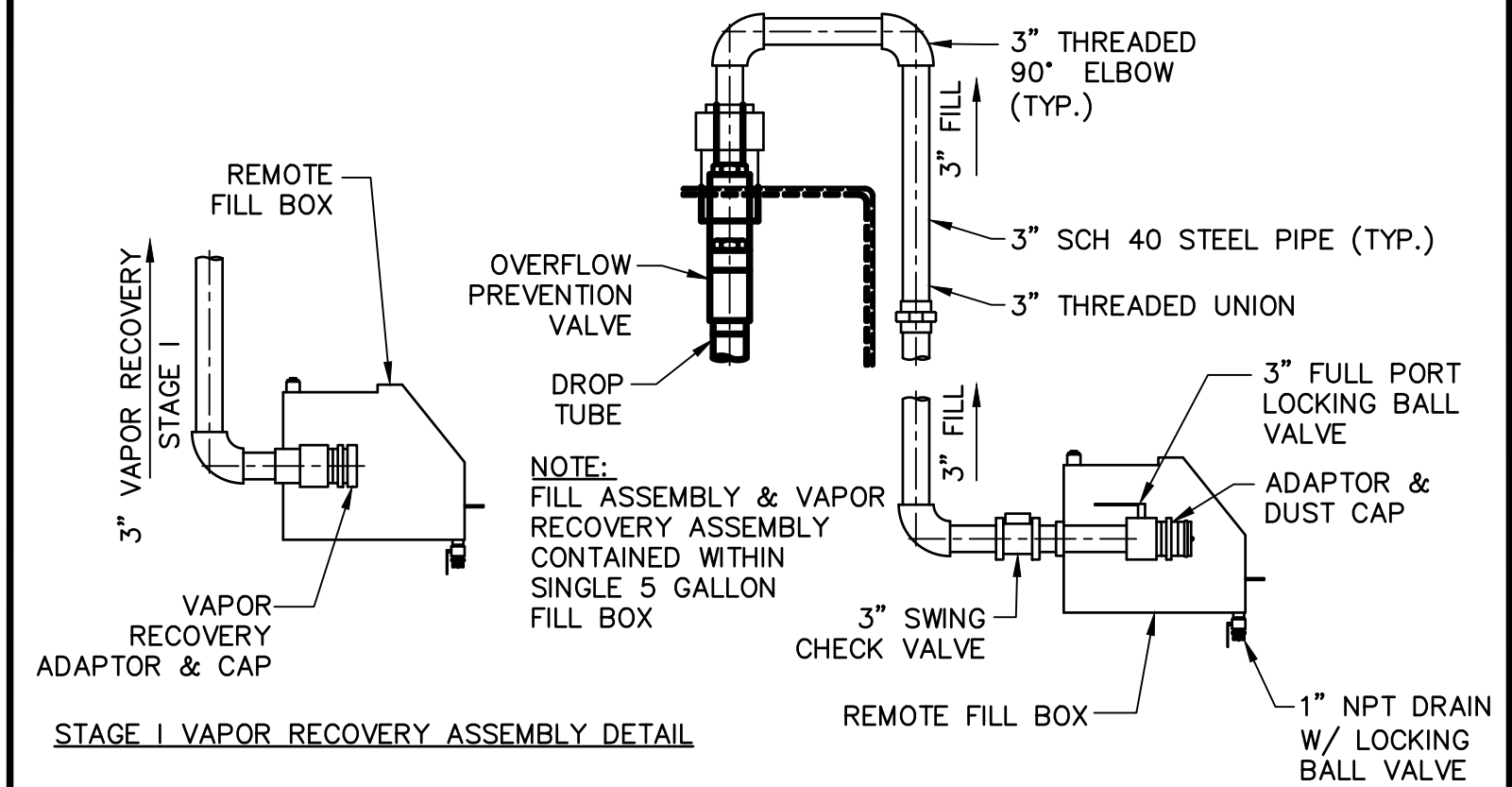
SHEET 15 OF 27

- TANK NOTES :

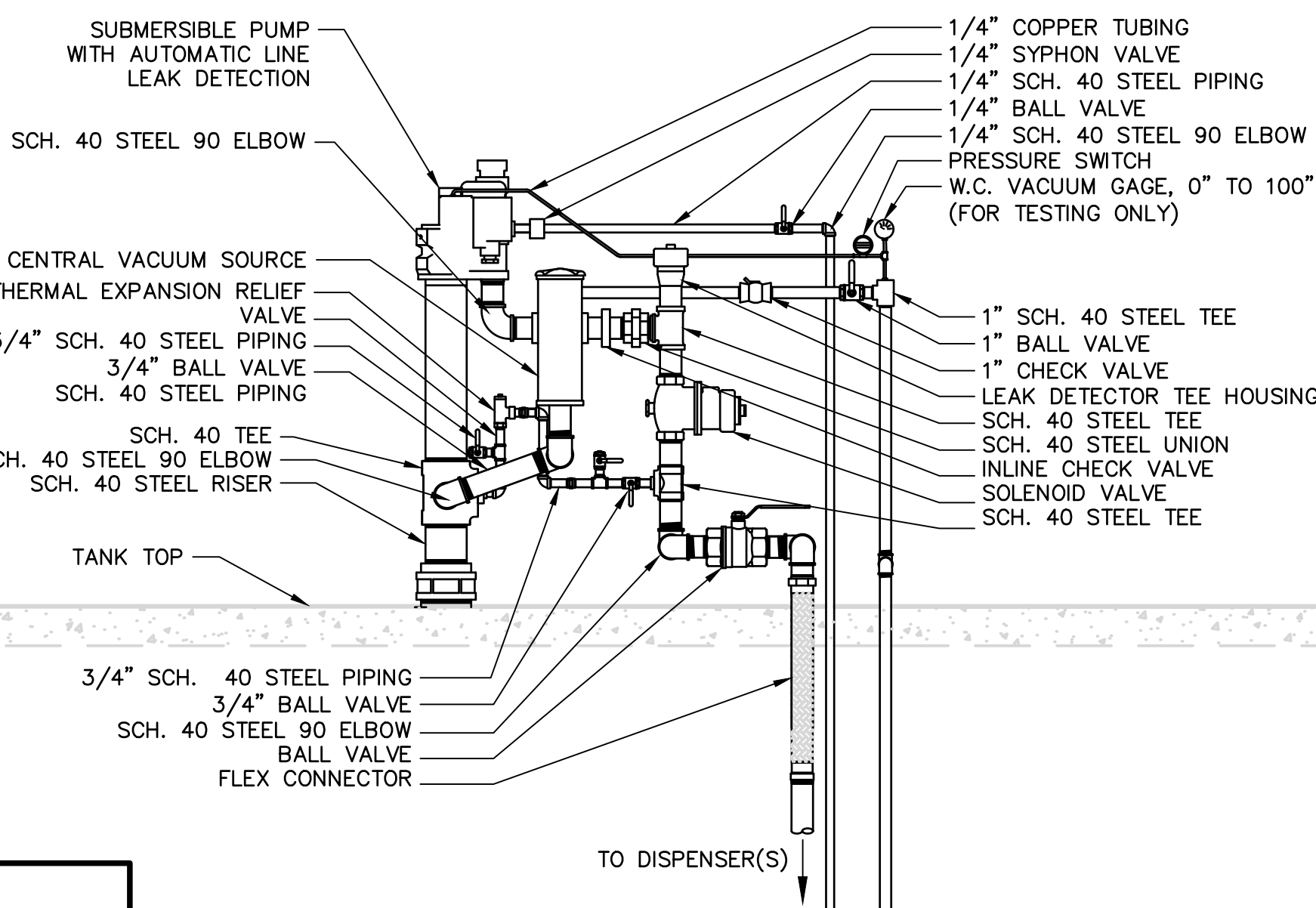
1. NEW AST TO BE DOUBLE-WALL STEEL.
2. TANKS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR INSTALLATION; DESIGN DETAILS; AND SPECIFICATIONS AS SHOWN ON THESE DRAWINGS.
3. TANKS TO BE ANCHORED TO CONCRETE SLAB PER DESIGN ENGINEER'S CALCULATIONS AND LOCAL CODE REQUIREMENTS.
4. VERIFY UL TANK REQUIREMENTS WITH LOCAL FIRE MARSHAL.
5. VERIFY ANY ADDITIONAL CONTAINMENT REQUIREMENTS WITH LOCAL FIRE MARSHAL.



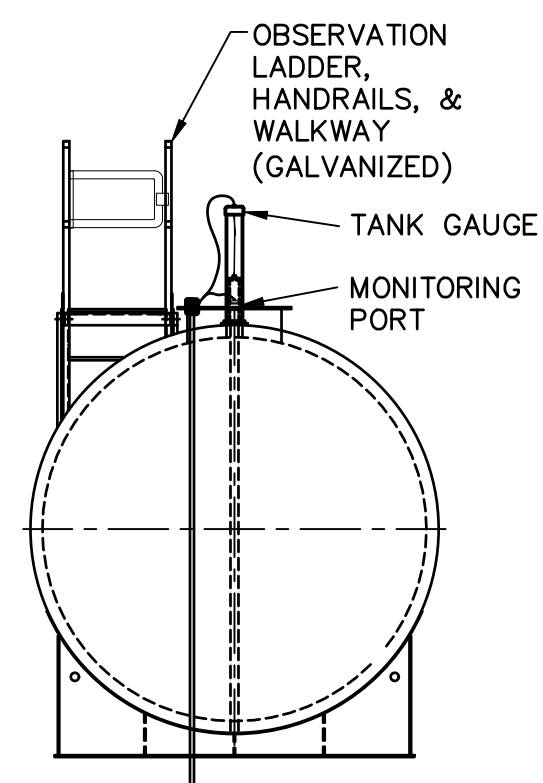
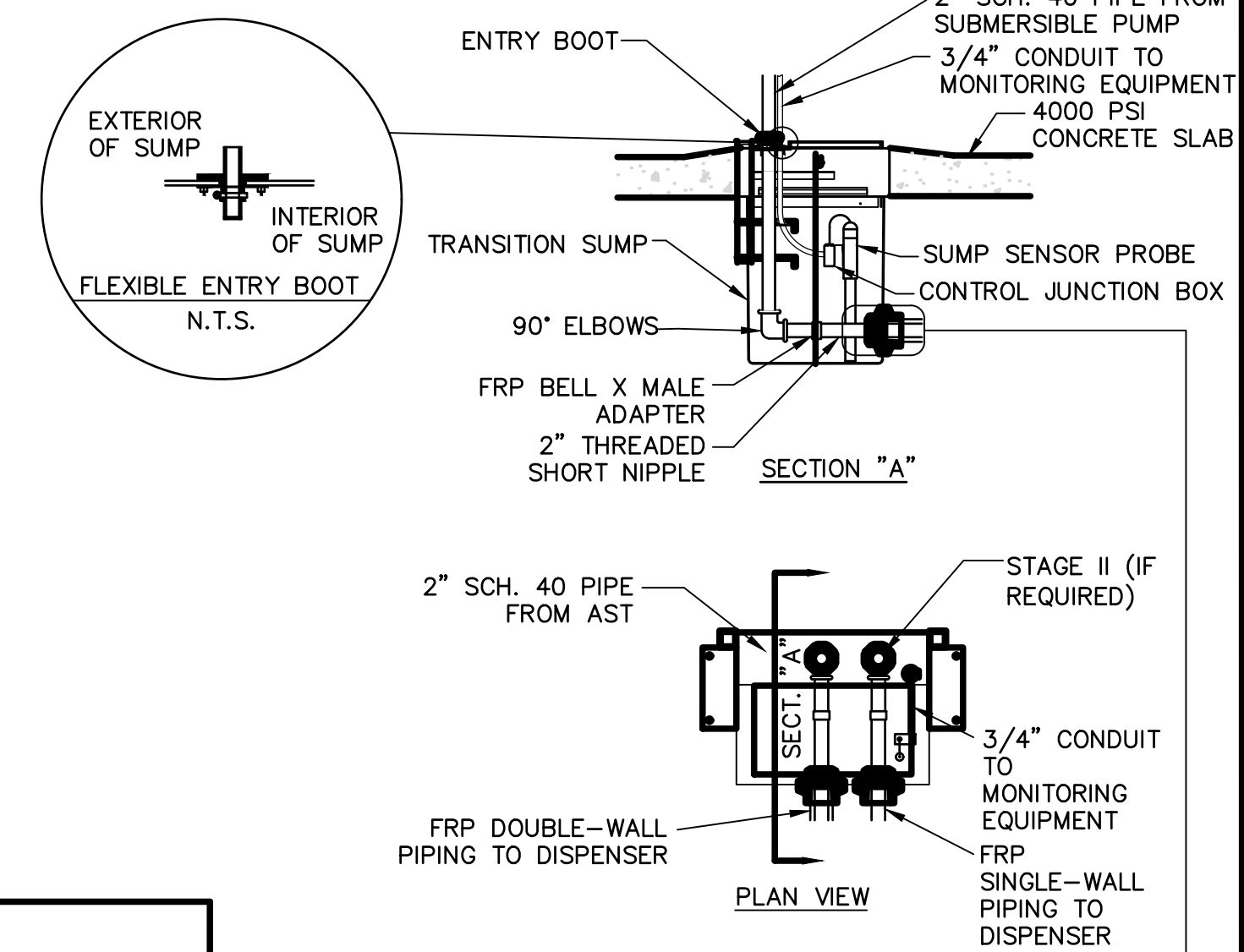
E SUBMERSIBLE PUMP DETAIL (NON-STAGE II)
SCALE: 3/4" = 1'-0"



F REMOTE FILL DETAIL
SCALE: 1/2" = 1'-0"

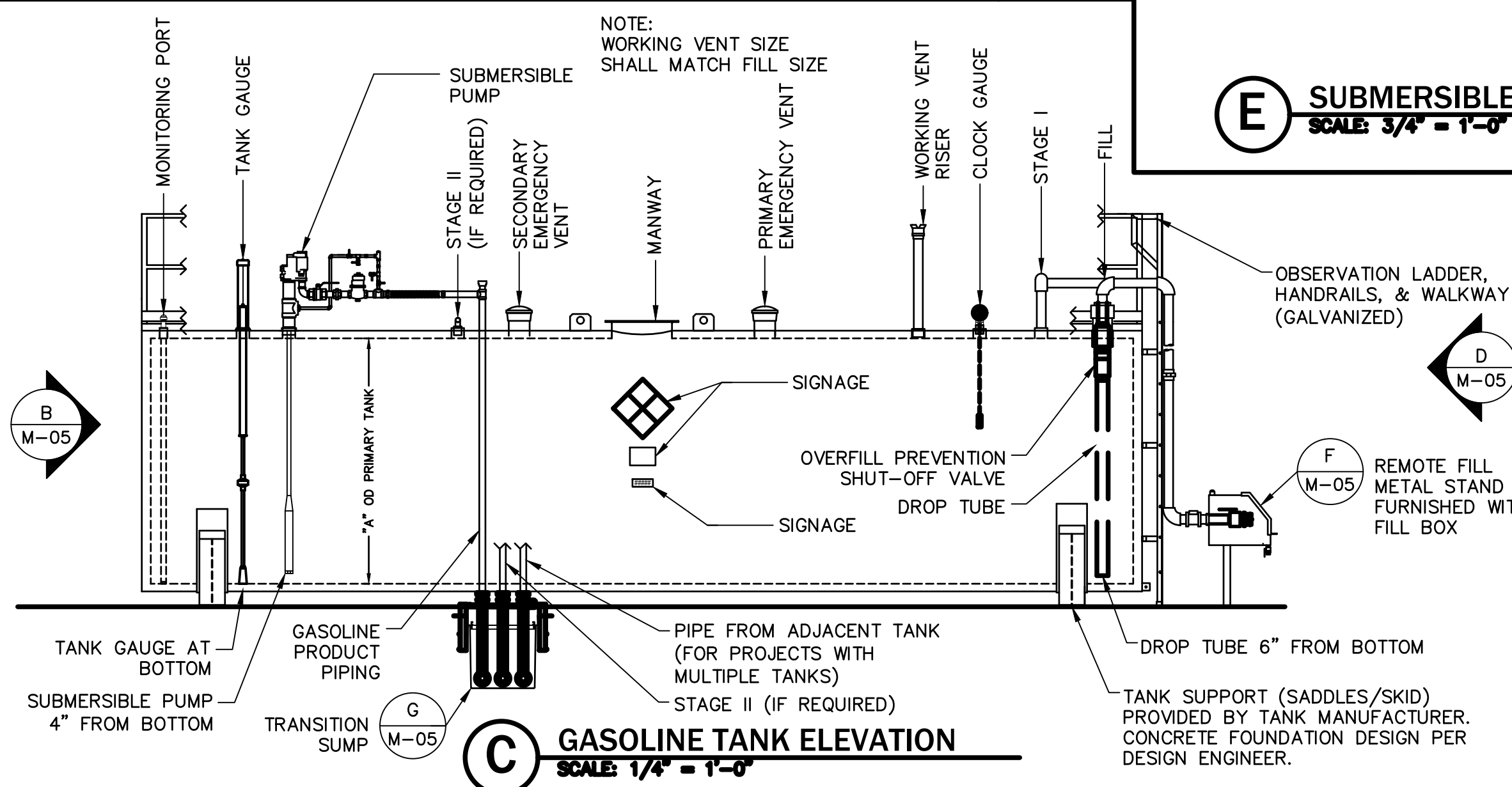


E SUBMERSIBLE PUMP DETAIL (STAGE II)
SCALE: 3/4" = 1'-0"

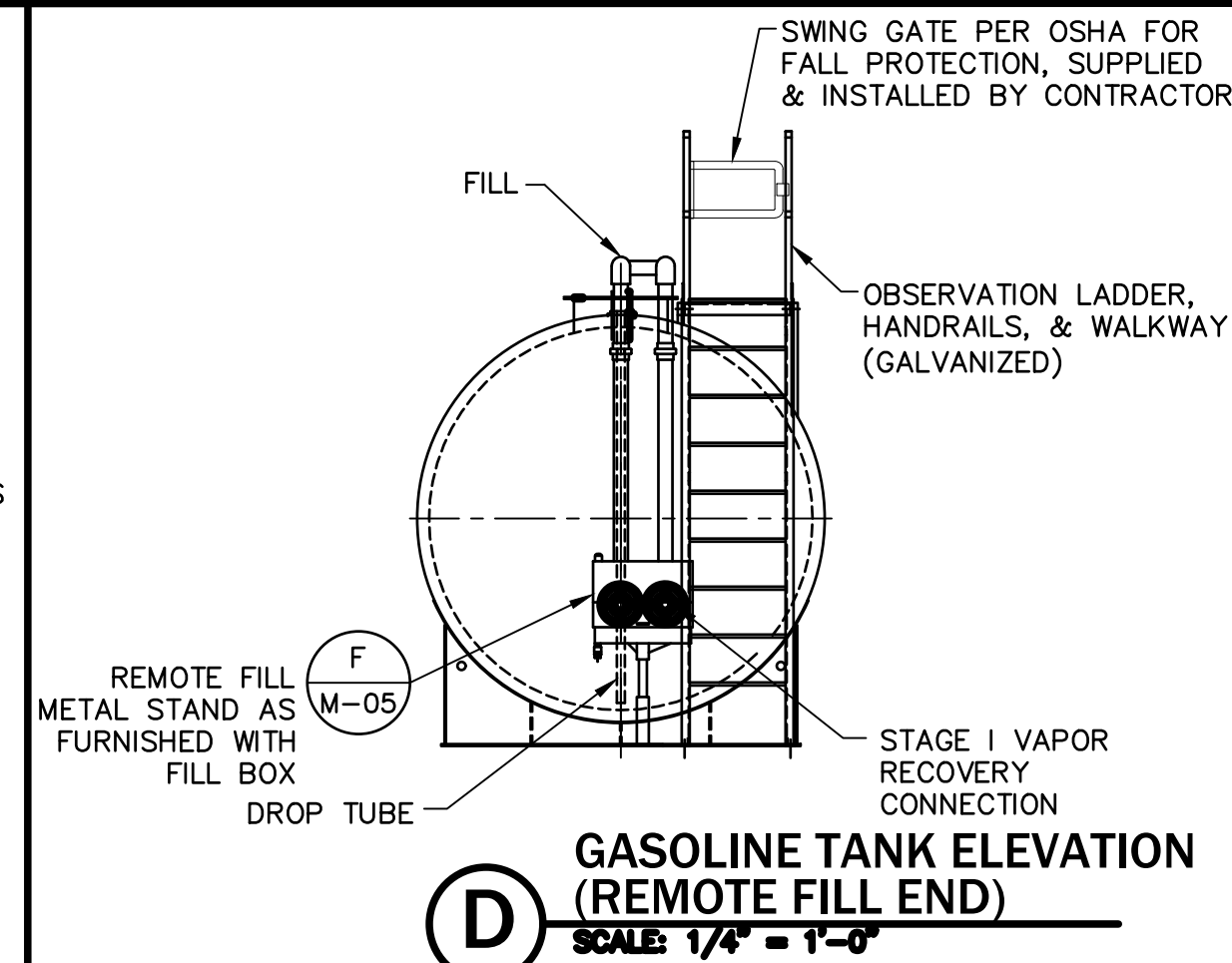


**GASOLINE TANK
ELEVATION
(MONITORING
PORT END)**

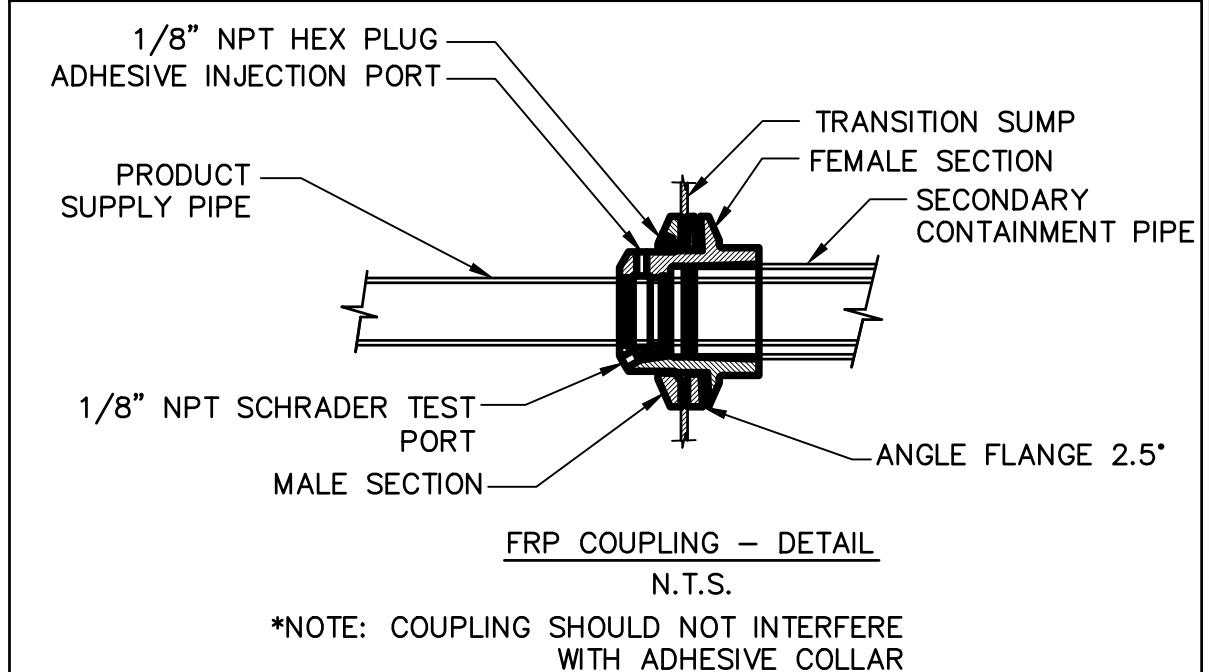
SCALE: 1/4" = 1'-0"



(C) GASOLINE TANK ELEVATION
SCALE: 1/4" = 1'-0"



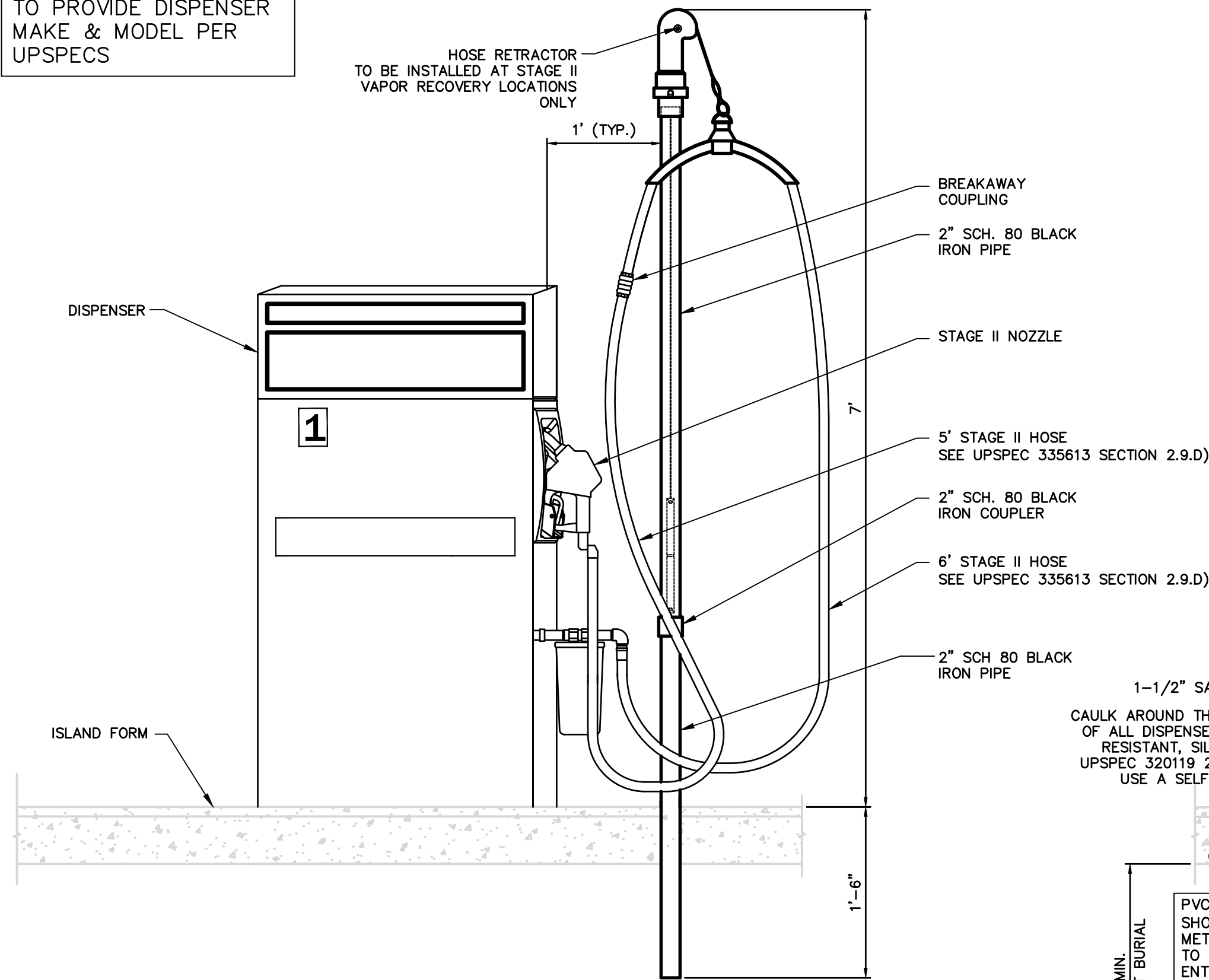
**GASOLINE TANK ELEVATION
(REMOTE FILL END)**
SCALE: 1/4" = 1'-0"



G **TRANSITION SUMP DETAIL**
SCALE: 1/2" = 1'-0"

User: DAIBI\AS3327 Spec: ALUS-NC5000 File: C:\USERS\DAIBI\AS3327\ACCORDS\ARCADIS\ALUS-UPS-CUSTOMER CENTER-OAKLAND CALIFORNIA PROJECT FILES\2023\01-IN PROGRESS\06-SHEETS\MECH\M-07.DWG Scale: 1:121/256 SavedDate: 5/25/2023 Time: 17:04 Plot Date: 5/25/2023; 17:08 ; Layout: 06

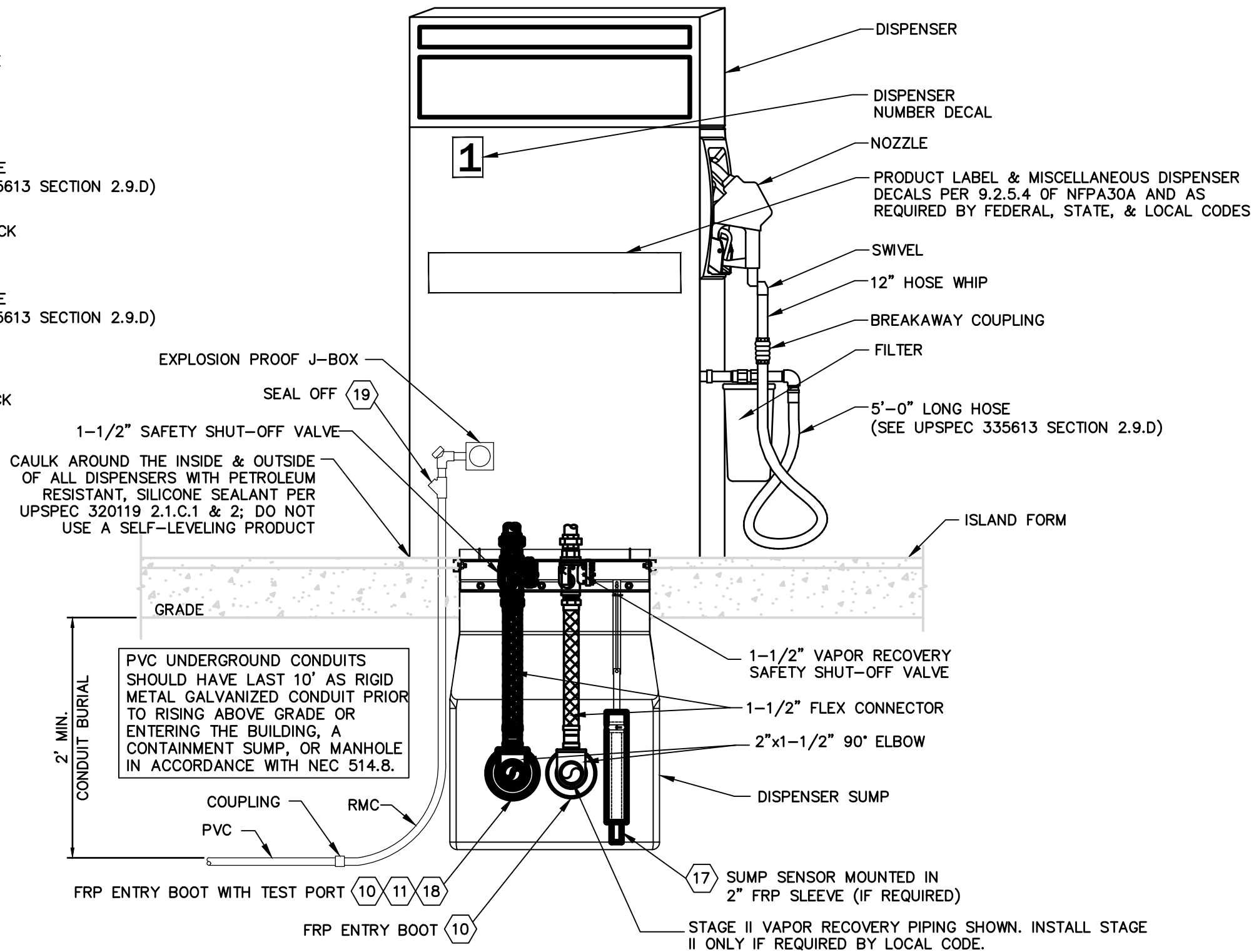
GILBARCO GASBOY 9853KX DISPENSERS SHOWN, CONTRACTOR TO PROVIDE DISPENSER MAKE & MODEL PER UPSPECS



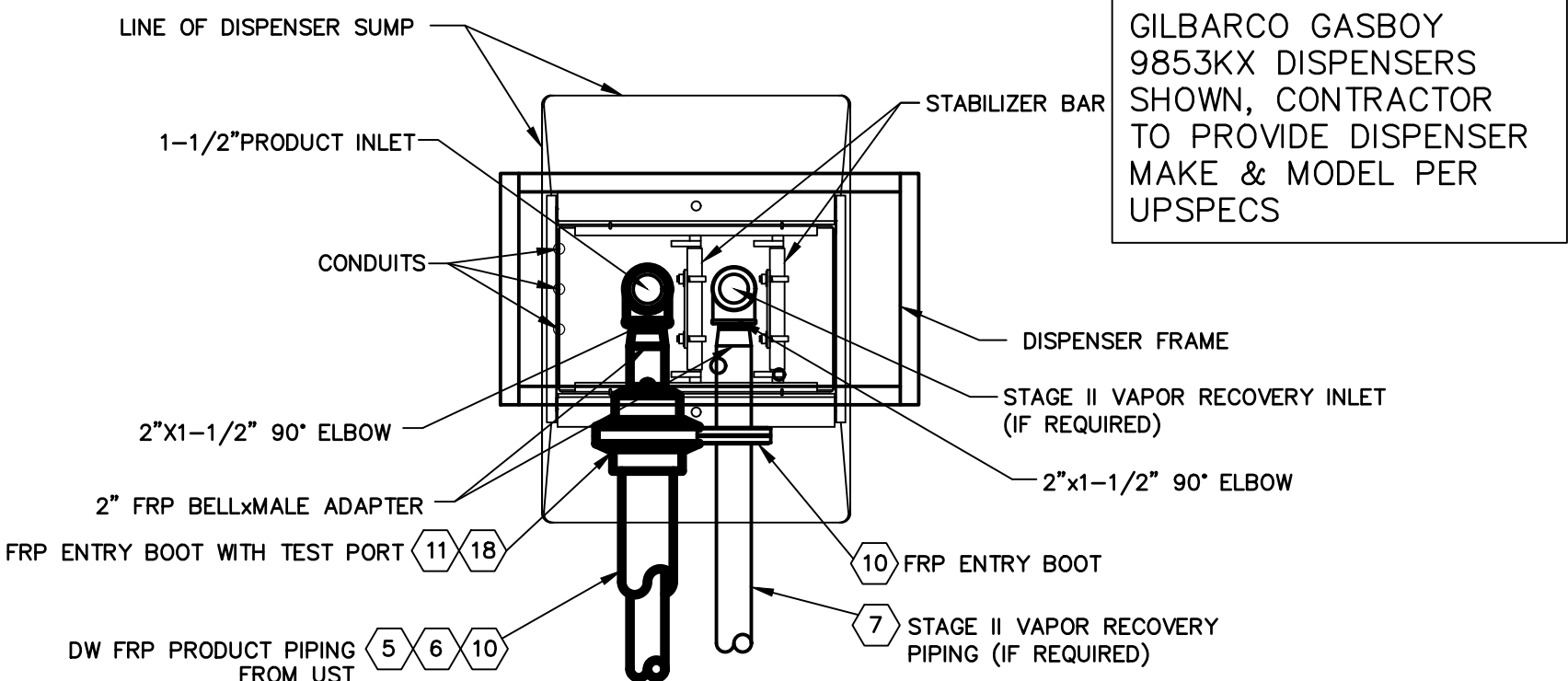
STAGE II HOSE RETRACTOR DETAIL
SCALE: 1" = 1'-0"

A DISPENSER ELEVATION
SCALE: 1" = 1'-0"

NOTES
⑤ SLOPE PRODUCT PIPING BACK TO TANKS MINIMUM 1/8" PER 1'-0".
⑥ PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" COMPACTED PEA GRAVEL BEDDING. PIPING SHALL NOT BE SUPPORTED BY BLOCKS, PLANKS, OR OTHER DEBRIS.
⑦ SLOPE VAPOR RECOVERY PIPING BACK TO TANKS MIN. 1/8" PER 1'-0".
⑩ ALL CONDUIT AND PIPING ENTRIES TO BE PERPENDICULAR TO CONTAINMENT SUMP.
⑪ ALL TEST BOOTS TO BE ORIENTED WITH THE TEST PORTS IN 6 O'CLOCK & 9 O'CLOCK POSITION. TEST TUBE MUST REMAIN CONNECTED AFTER AIR TESTING THE INTERSTICE. TESTS PORTS TO BE LEFT PLUGGED.
⑰ FRP MOUNTING SLEEVE TO BE 2" FROM BOTTOM OF SUMP; SENSOR TO REST ON BOTTOM OF SUMP.
⑱ THE PRODUCT PIPING ENTRY BOOTS MUST BE ORIENTED WITH THE EPOXY FILL PORT UP.
⑲ SEAL OFF TO BE INSTALLED ABOVE TOP OF DISPENSER SUMP.

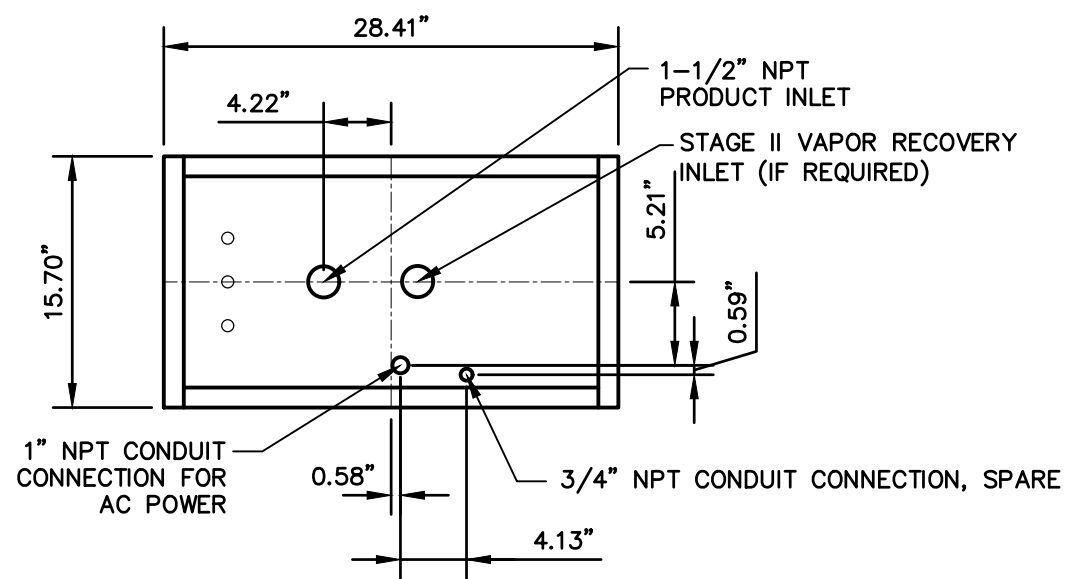


TYPICAL DISPENSER ELEVATION
SCALE: 1" = 1'-0"

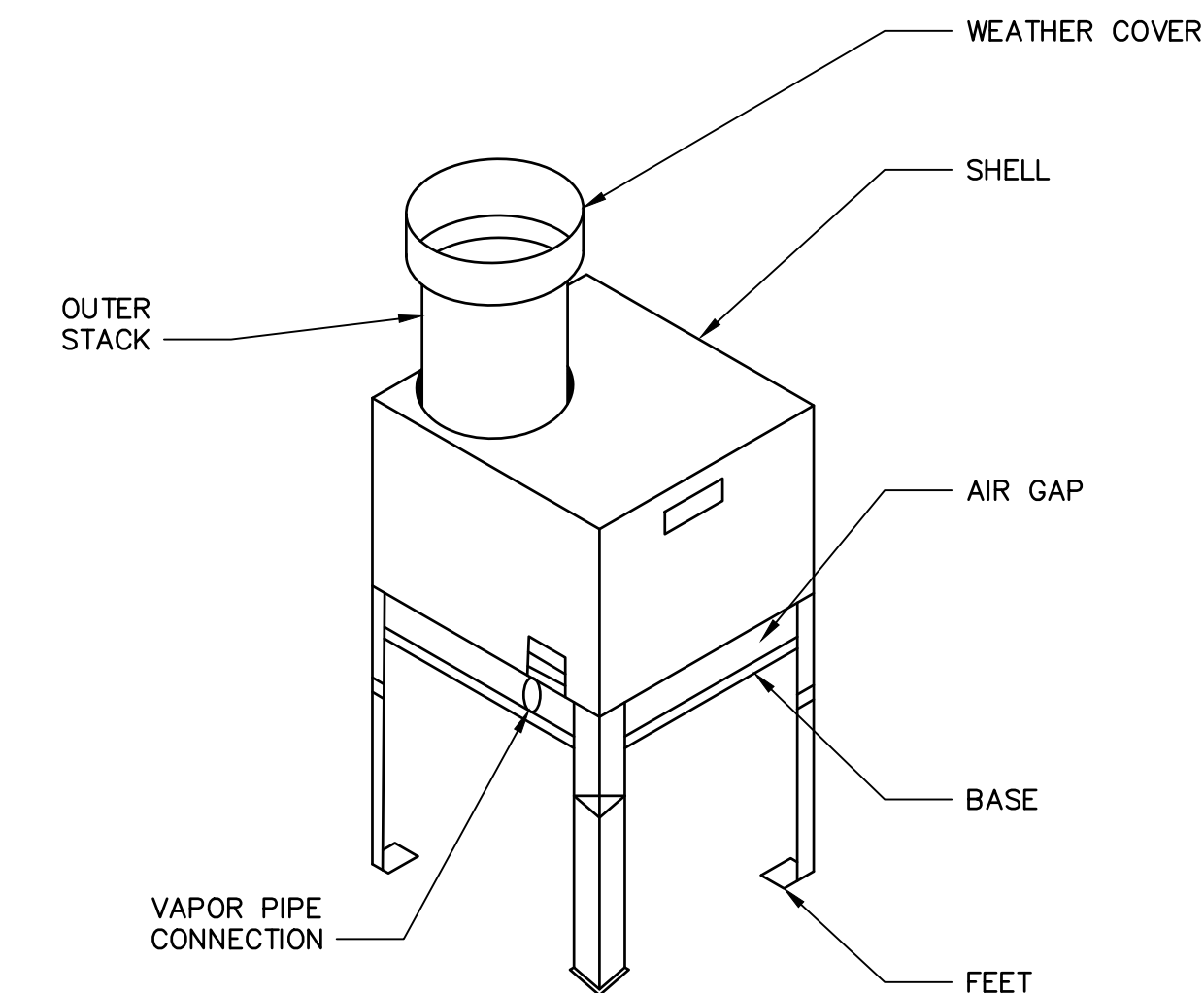


B DISPENSER SUMP - TOP VIEW
SCALE: 1" = 1'-0"

GILBARCO GASBOY 9853KX DISPENSERS SHOWN, CONTRACTOR TO PROVIDE DISPENSER MAKE & MODEL PER UPSPECS

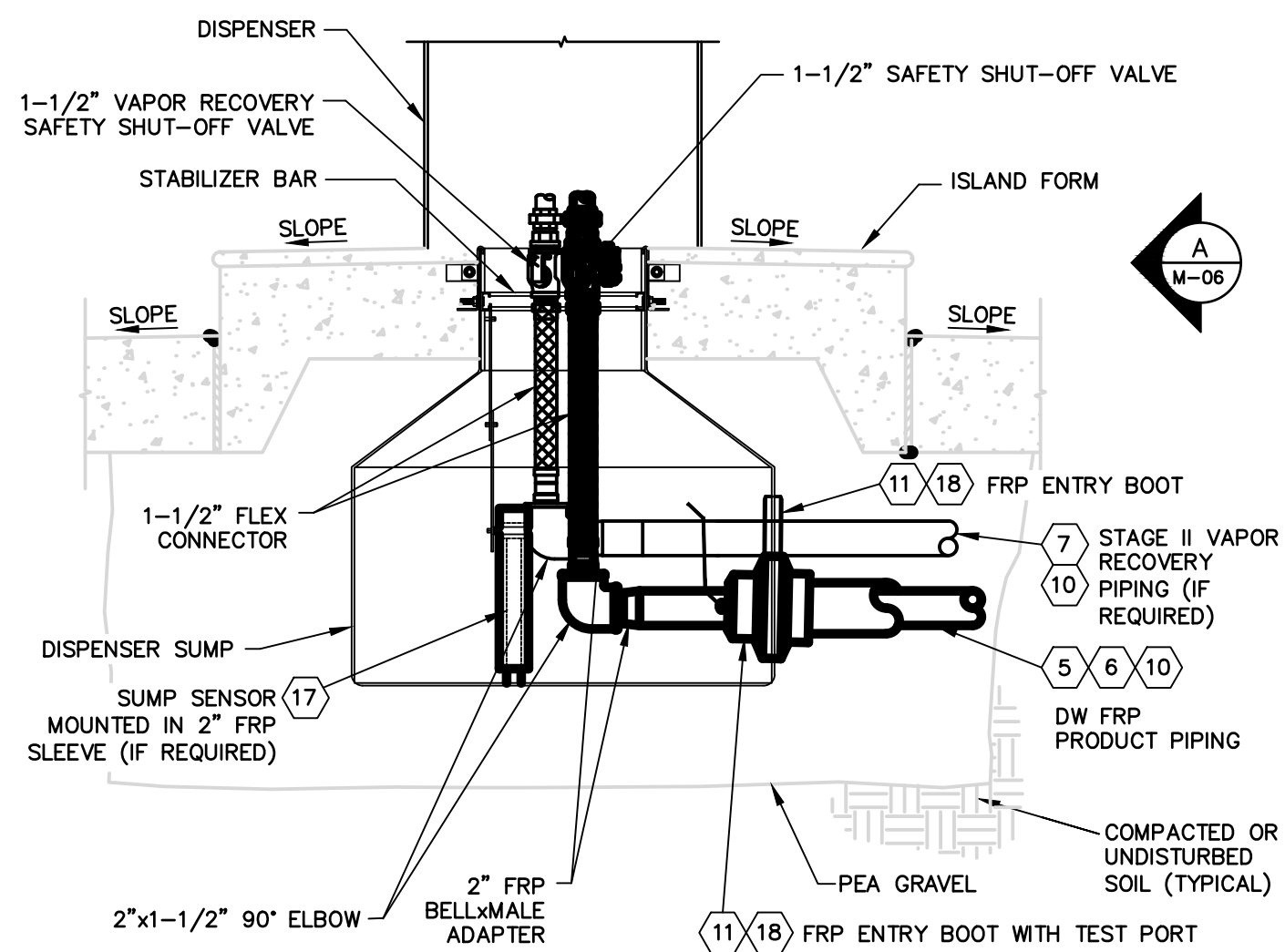


C DISPENSER FRAME
SCALE: 1" = 1'-0"



E GASOLINE VAPOR THERMAL OXIDIZER - GENERAL ARRANGEMENT
NOT TO SCALE

GILBARCO GASBOY 9153KX DISPENSERS SHOWN, CONTRACTOR TO VERIFY ACTUAL DISPENSER MAKE & MODEL WITH UPS PROJECT MANAGER.



D SECTION THROUGH DISPENSER
SCALE: 1" = 1'-0"



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NO.	DATE	ISSUED FOR	BY	

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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: M-07
DESIGNED BY: A. AZZAWI
DRAWN BY: K. GULDAGAD
CHECKED BY: A. AZZAWI

SHEET TITLE

MECHANICAL

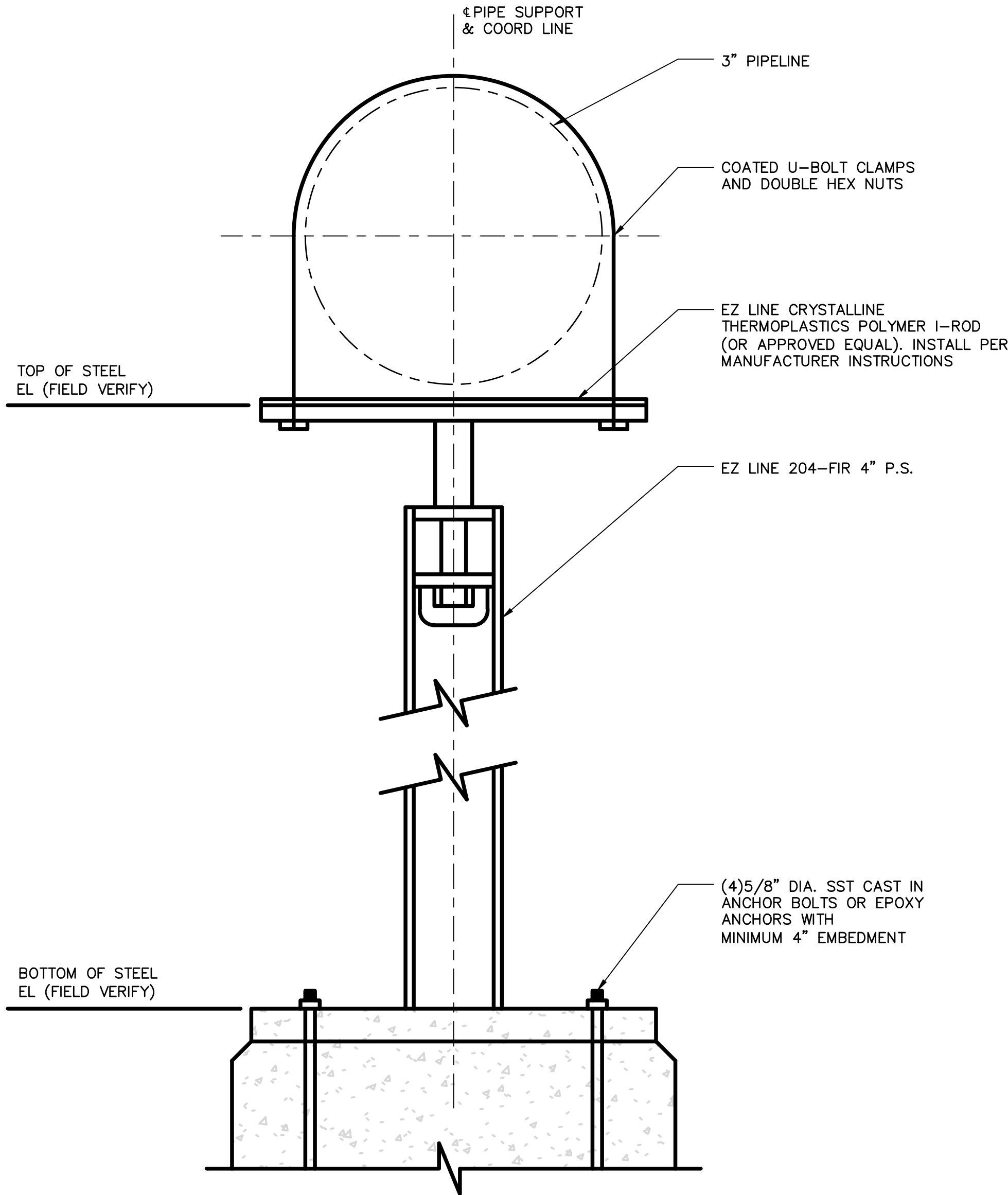
PACKAGED CAR
FUELING
DISPENSER DETAILS

SCALE: AS SHOWN

M-07

SHEET 16 OF 27

User:DAIHIB\AS8327 Spec:ALUS-NC5100 File:c:\users\DAIHIB\AS8327\accdps\ARCADIS\US-UPS-CUSTOMER CENTER-OAKLAND CALIFORNIA\PROJECT FILES\2023\01-IN PROGRESS\06-SHEETS\MECH\M-08.DWG Scale:1:1 SavedDate:5/25/2023 Time:17:04 Plot Date: DAIHIB\AS8327, Shorayr, 5/25/2023, 17:08 ; Layout:M-08



FLOOR STAND PIPE SUPPORT - DETAIL
NOT TO SCALE



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DATE: MAY 2023
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FILE NAME: M-08
DESIGNED BY: A. AZZAWI
DRAWN BY: K.GULDAGAD
CHECKED BY: A. AZZAWI

SHEET TITLE

MECHANICAL


SUPPORT DETAILS

SCALE: NTS

M-08

SHEET 17 OF 27

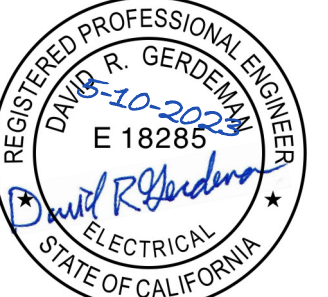




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PROJECT NO.: 30136437

FILE NAME: E-02

DESIGNED BY: ADA

DRAWN BY: YL

CHECKED BY: DRG

SHEET TITLE

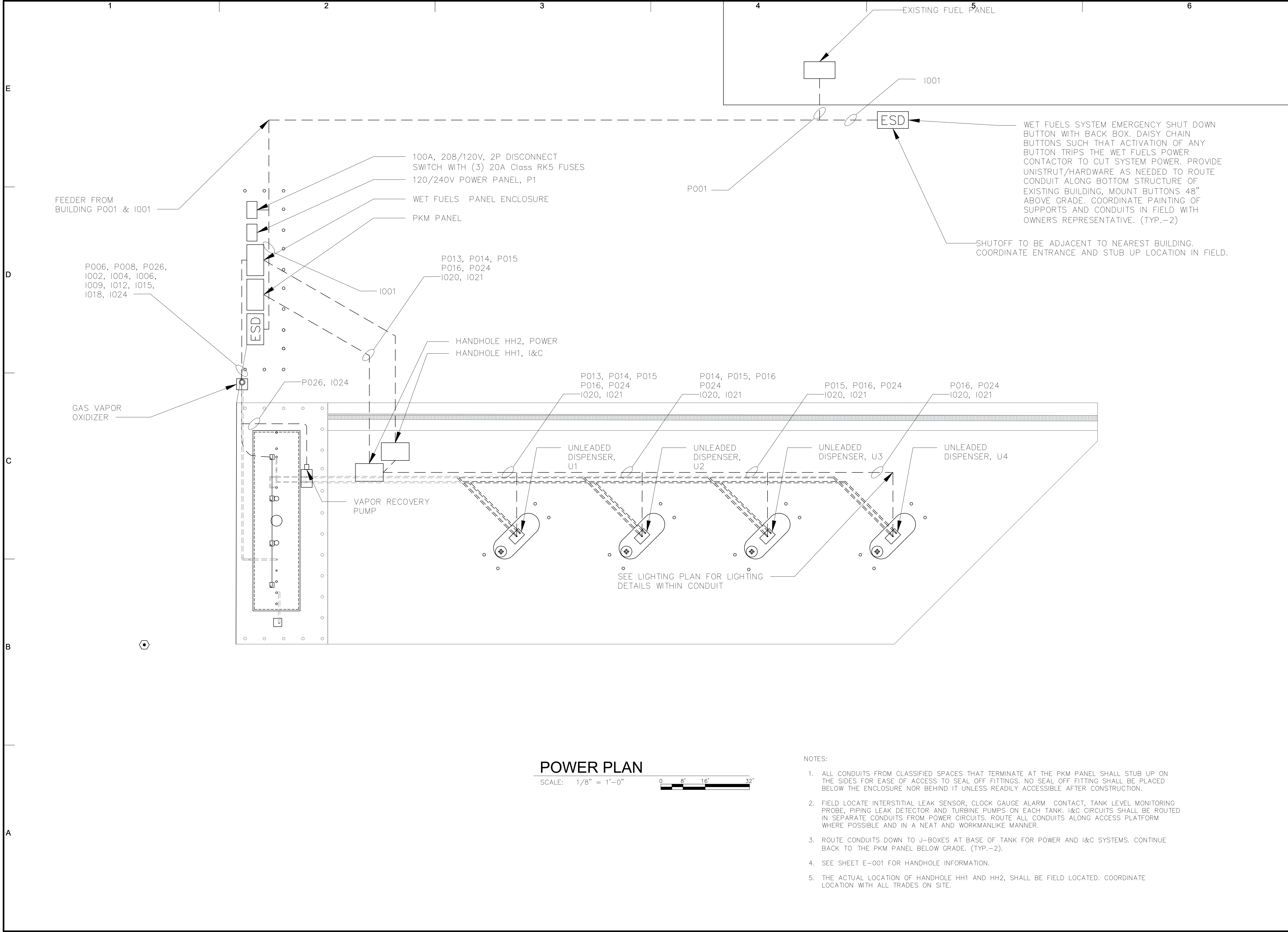
ELECTRICAL


SITE PLAN

SCALE: AS NOTED

E-02

SHEET OF

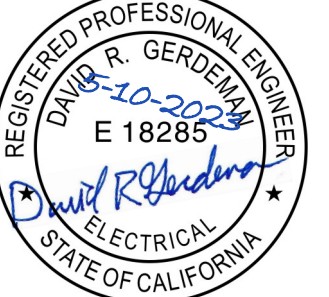




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PROJECT NO.: 30136437

FILE NAME: E-03

DESIGNED BY: ADA

DRAWN BY: YL

CHECKED BY: DRG

SHEET TITLE

ELECTRICAL

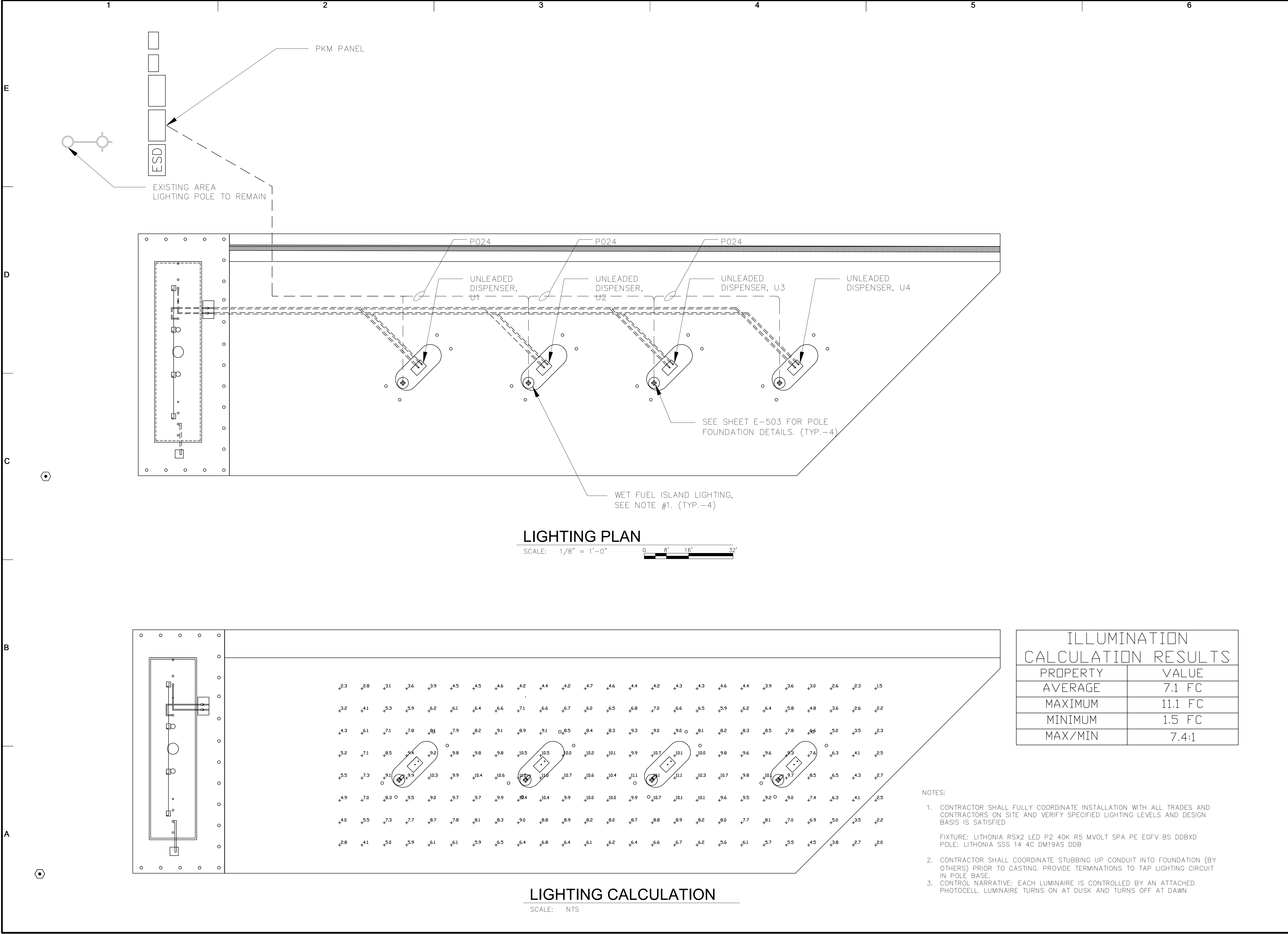
POWER PLAN

SCALE: AS NOTED

E-03

SHEET OF

- NOTES:
- ALL CONDUITS FROM CLASSIFIED SPACES THAT TERMINATE AT THE PKM PANEL SHALL STUB UP ON THE SIDES FOR EASE OF ACCESS TO SEAL OFF FITTINGS. NO SEAL OFF FITTING SHALL BE PLACED BELOW THE ENCLOSURE NOR BEHIND IT UNLESS READILY ACCESSIBLE AFTER CONSTRUCTION.
 - FIELD LOCATE INTERSTITIAL LEAK SENSOR, CLOCK GAUGE ALARM CONTACT, TANK LEVEL MONITORING PROBE, PIPING LEAK DETECTOR AND TURBINE PUMPS ON EACH TANK. I&C CIRCUITS SHALL BE ROUTED IN SEPARATE CONDUITS FROM POWER CIRCUITS. ROUTE ALL CONDUITS ALONG ACCESS PLATFORM WHERE POSSIBLE AND IN A NEAT AND WORKMANLIKE MANNER.
 - ROUTE CONDUITS DOWN TO J-BOXES AT BASE OF TANK FOR POWER AND I&C SYSTEMS. CONTINUE BACK TO THE PKM PANEL BELOW GRADE. (TYP.-2).
 - SEE SHEET E-001 FOR HANDHOLE INFORMATION.
 - THE ACTUAL LOCATION OF HANDHOLE HH1 AND HH2, SHALL BE FIELD LOCATED. COORDINATE LOCATION WITH ALL TRADES ON SITE.



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FILE NAME: E-04

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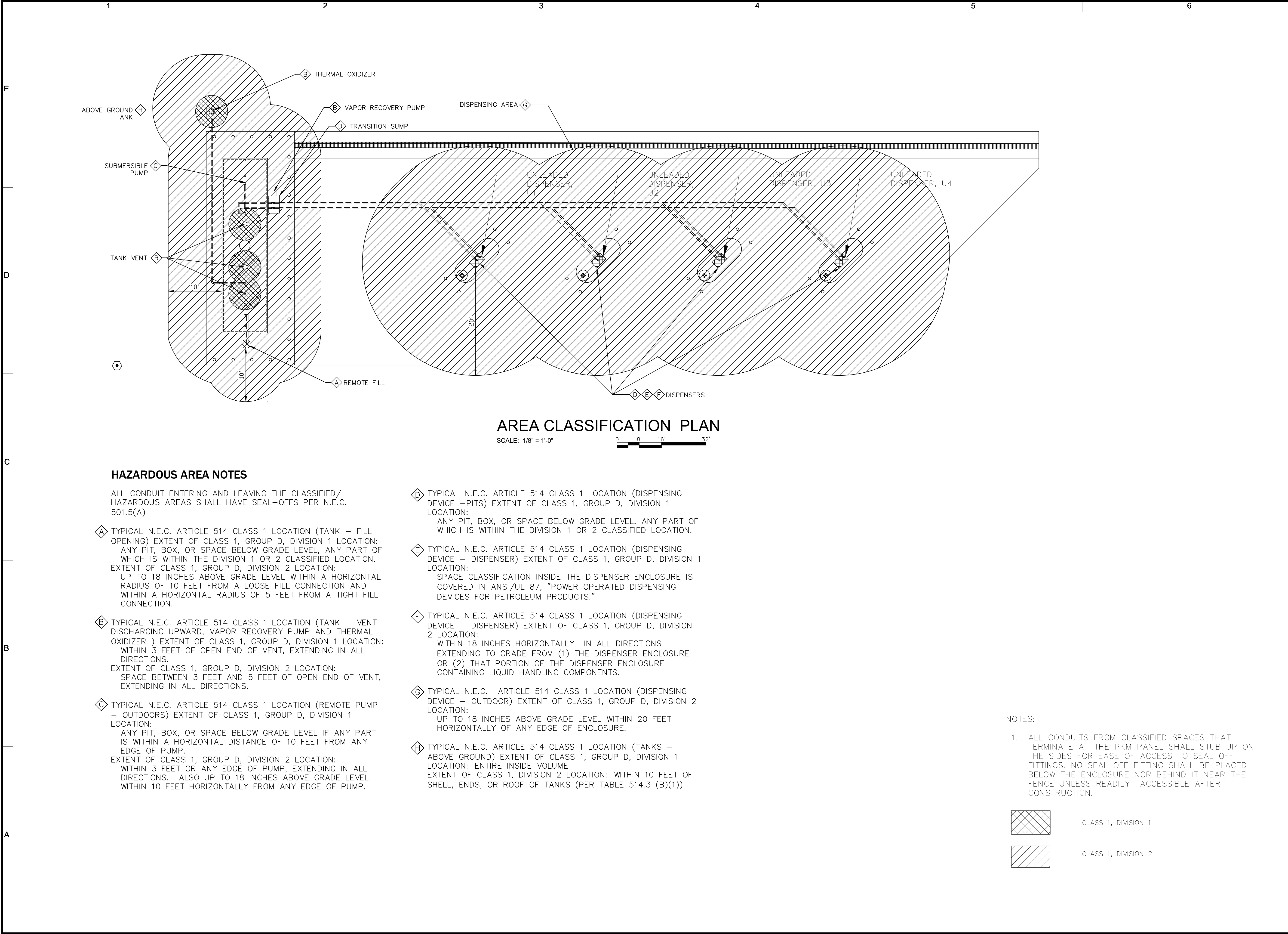
SHEET TITLE

ELECTRICAL

FUEL LIGHTING PLAN

SCALE: AS NOTED

SHEET E-04 OF



HAZARDOUS AREA NOTES

ALL CONDUIT ENTERING AND LEAVING THE CLASSIFIED/HAZARDOUS AREAS SHALL HAVE SEAL-OFFS PER N.E.C. 501.5(A)

- A** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (TANK – FILL OPENING) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.
- B** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (TANK – VENT DISCHARGING UPWARD, VAPOR RECOVERY PUMP AND THERMAL OXIDIZER) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: WITHIN 3 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: SPACE BETWEEN 3 FEET AND 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
- C** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP – OUTDOORS) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 3 FEET OR ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTIONS. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.

- D** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE –PITS) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.
- E** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE – DISPENSER) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."
- F** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE – DISPENSER) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS.
- G** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE – OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.
- H** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (TANKS – ABOVE GROUND) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ENTIRE INSIDE VOLUME EXTENT OF CLASS 1, DIVISION 2 LOCATION: WITHIN 10 FEET OF SHELL, ENDS, OR ROOF OF TANKS (PER TABLE 514.3 (B)(1)).

- Cross-hatched pattern: CLASS 1, DIVISION 1
- Diagonal line pattern: CLASS 1, DIVISION 2

NOTES:

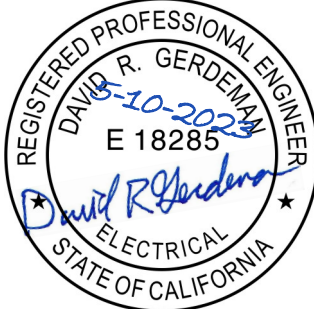
1. ALL CONDUITS FROM CLASSIFIED SPACES THAT TERMINATE AT THE PKM PANEL SHALL STUB UP ON THE SIDES FOR EASE OF ACCESS TO SEAL OFF FITTINGS. NO SEAL OFF FITTING SHALL BE PLACED BELOW THE ENCLOSURE NOR BEHIND IT NEAR THE FENCE UNLESS READILY ACCESSIBLE AFTER CONSTRUCTION.



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FILE NAME: E-05
DESIGNED BY: ADA
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SHEET TITLE

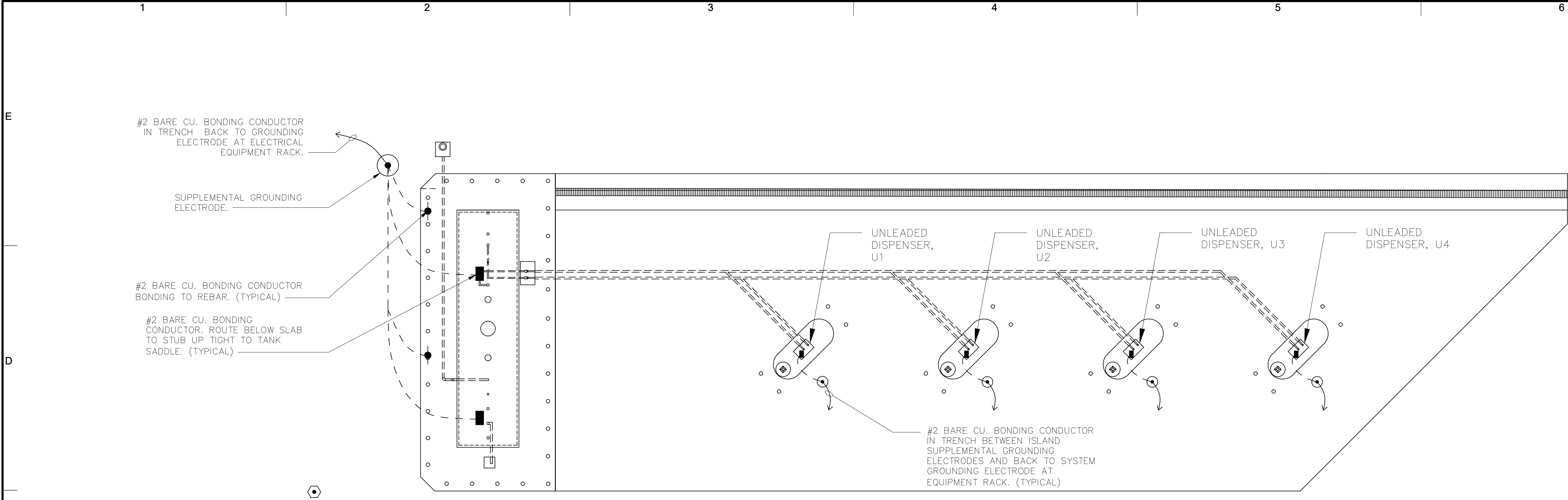
ELECTRICAL

AREA
CLASSIFICATION
PLAN

SCALE: AS NOTED

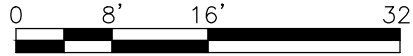
E-05

SHEET OF



GROUNDING PLAN

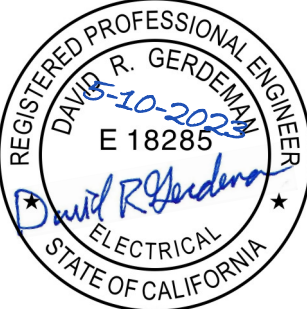
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SHEET TITLE

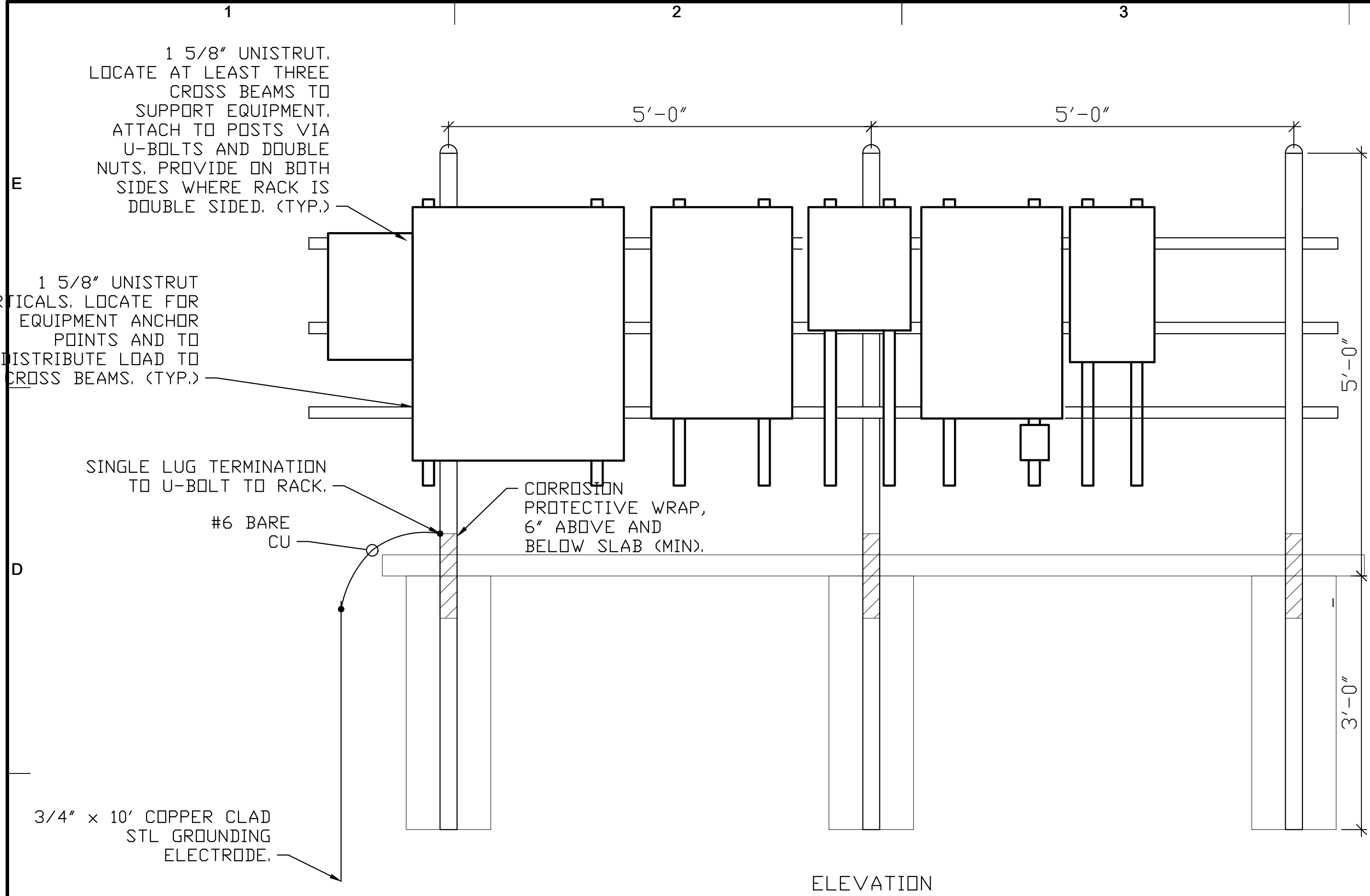
ELECTRICAL

GROUNDING
DETAILS

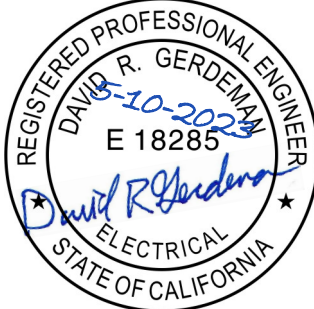
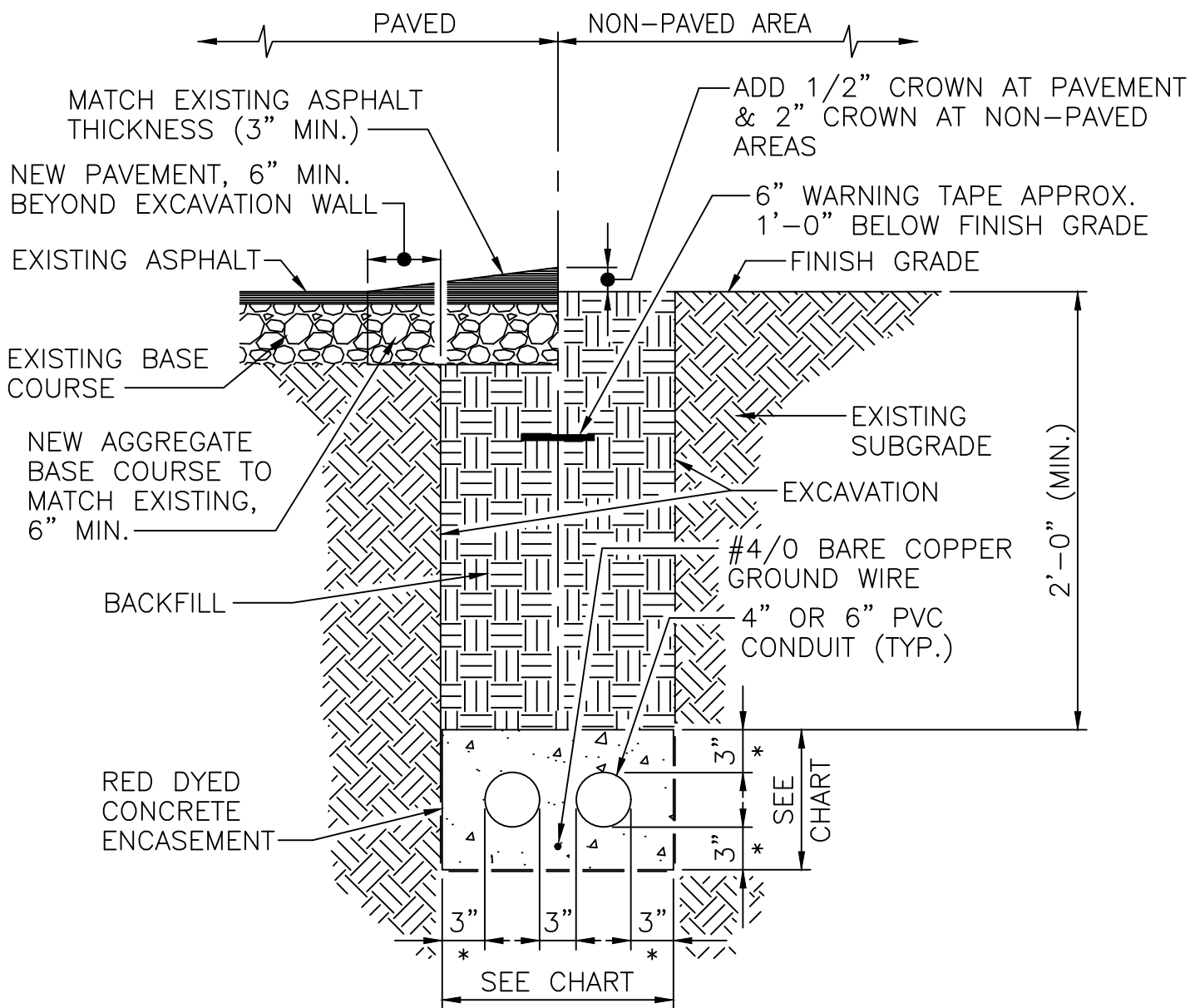
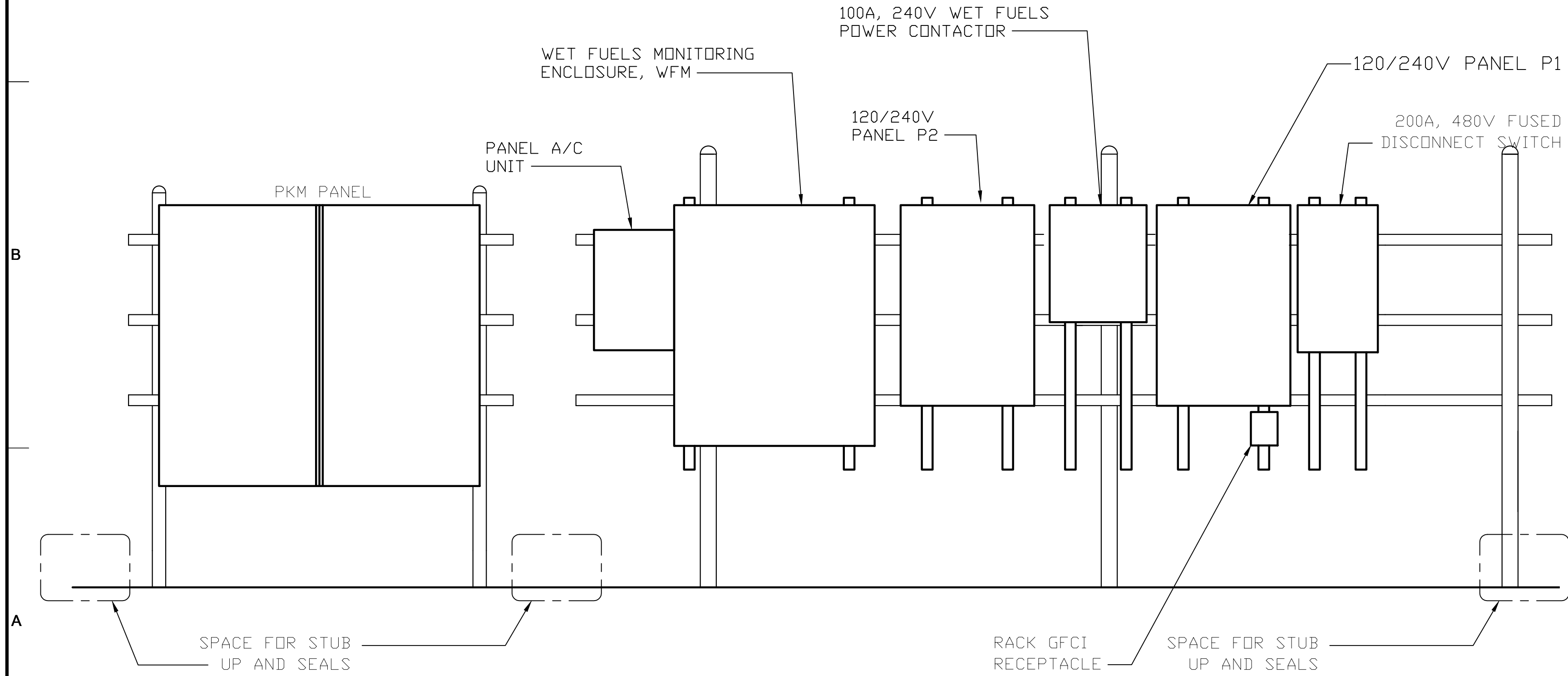
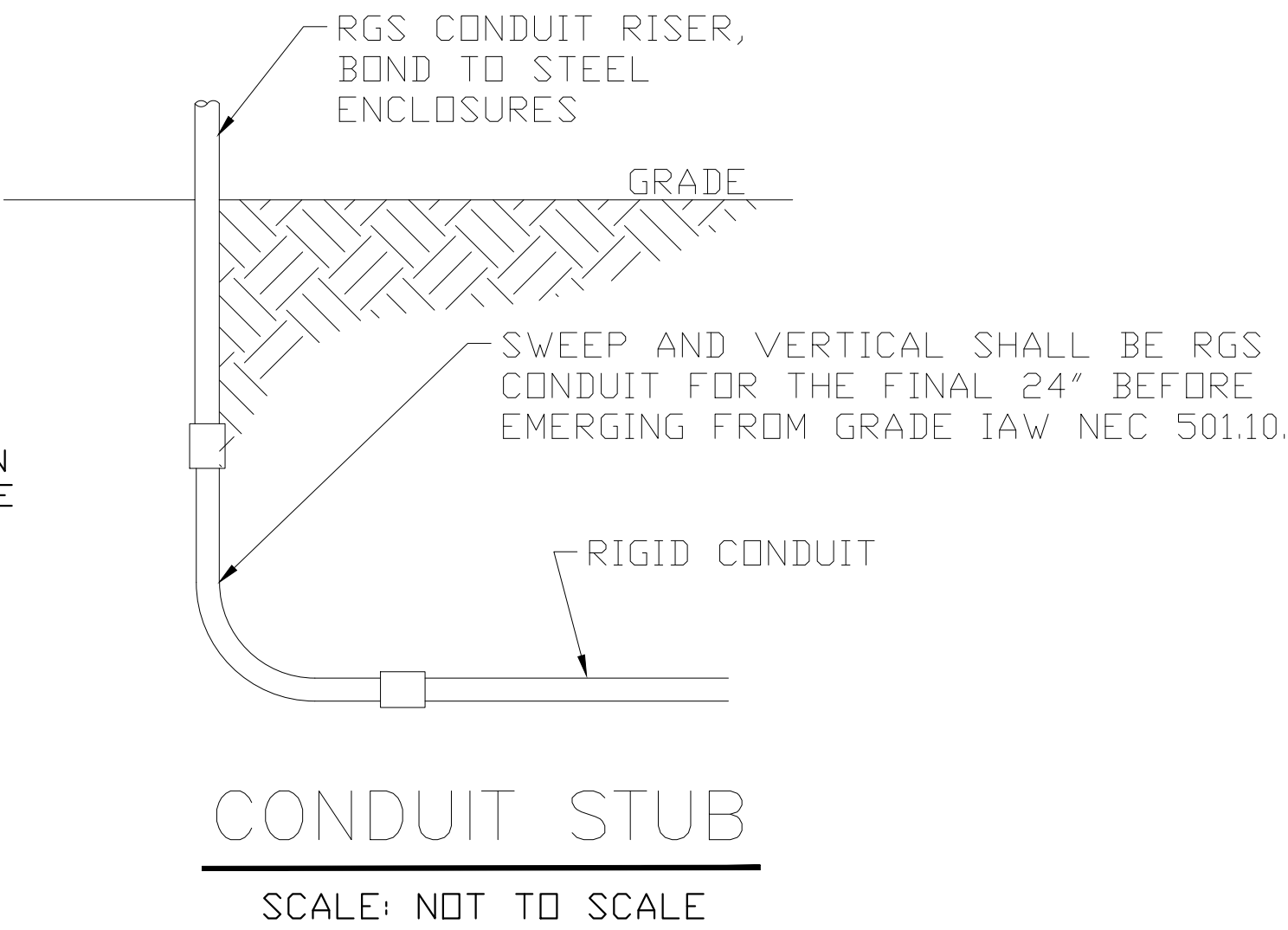
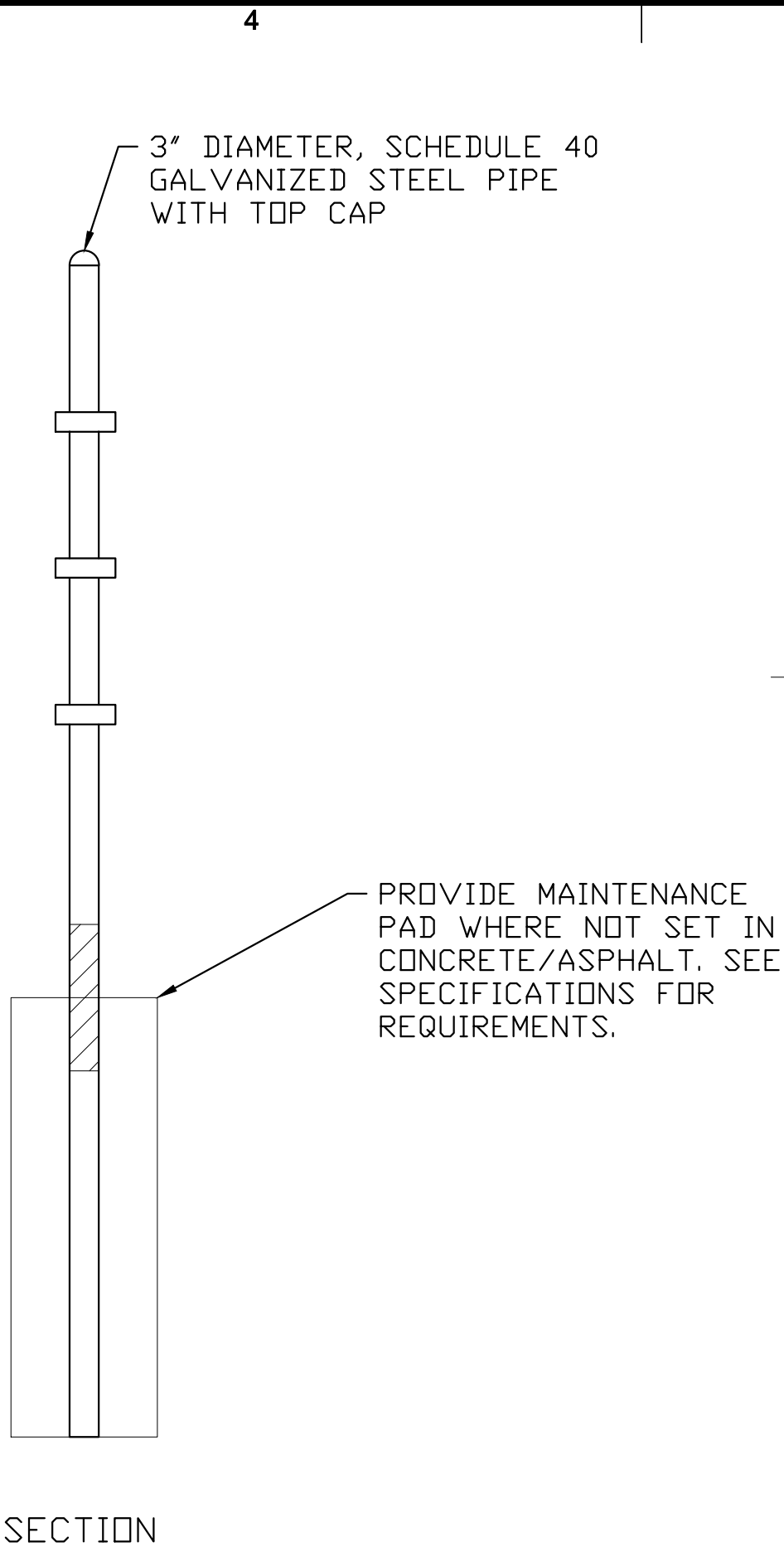
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E-06

SHEET OF

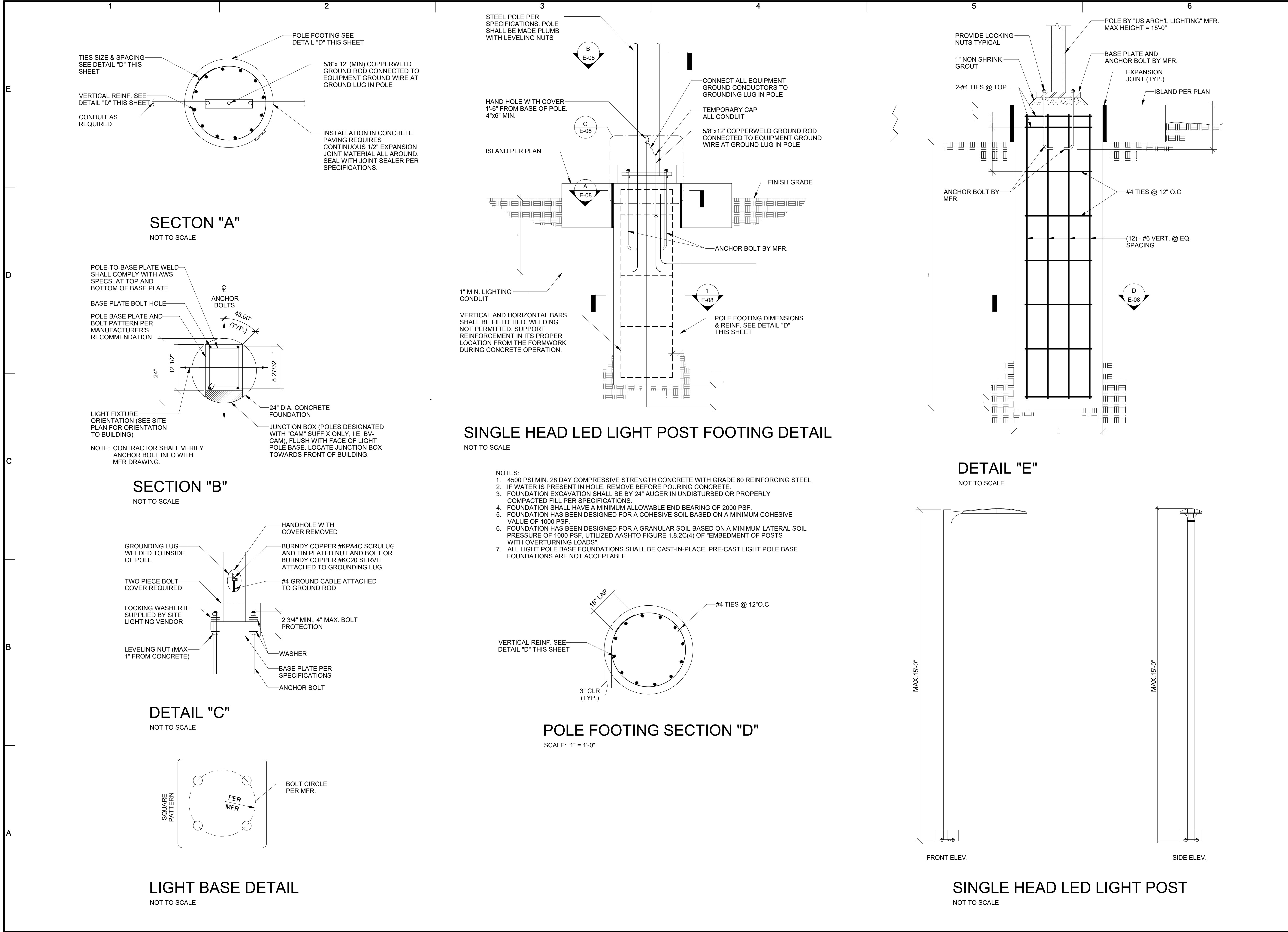


EQUIPMENT RACK
SCALE: NOT TO SCALE



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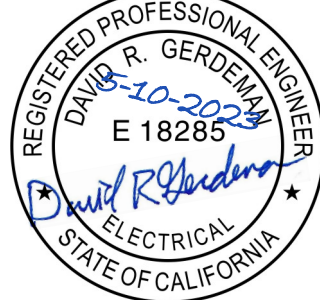
DATE:	MAY 2023
PROJECT NO.:	30136437
FILE NAME:	E-07
DESIGNED BY:	ADA
DRAWN BY:	YL
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FILE NAME: E-08
DESIGNED BY: ADA
DRAWN BY: YL
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SHEET TITLE

ELECTRICAL


LIGHT POST DETAILS

SCALE: AS NOTED

E-08

SHEET OF

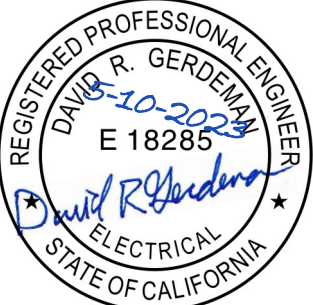
E	CONDUIT SCHEDULE						
	CONDUIT				FROM	TO	REMARKS
	NO.	SIZE	CONDUCTORS	GROUND			
	P001	1 1/2"	(4) #2	#8	208V FUEL PANEL IN BUILDING	WET FUEL SYSTEM FUSED DISCONNECT	
	P003	1 1/2"	(4) #2	#8	WET FUEL SYSTEM FUSED DISCONNECT	POWER PANEL P1	
	P004	1 1/4"	(4) #4	#8	POWER PANEL P1	WET FUELS POWER CONTACTOR	
	P005	1 1/4"	(4) #4	#8	WET FUELS POWER CONTACTOR	POWER PANEL P2	WET FUELS POWER VIA CONTACTOR
	P006	3/4"	(2) #12	#12	PKM PANEL	GAS THERMAL OXIDIZER	
	P008	3/4"	(2) #12	#12	POWER PANEL P2	GAS SUBMERSIBLE PUMP #1	240V TANK PUMP POWER
	P013	1"	(2) #12	#12	PKM PANEL	UNLEADED DISPENSER , U1	
P014	1"	(2) #12	#12	PKM PANEL	UNLEADED DISPENSER , U2		
P015	1"	(2) #12	#12	PKM PANEL	UNLEADED DISPENSER , U3		
P016	1"	(2) #12	#12	PKM PANEL	UNLEADED DISPENSER , U4		
P024	1"	(2) #12	#12	POWER PANEL P1	LIGHTING POLES		
P026	1"	(2) #12	#12	POWER PANEL P2	VAPOR RECOVERY PUMP		
P028	3/4"	(2) #12	#12	POWER PANEL P2	PKM PANEL		
P029	3/4"	(2) #12	#12	POWER PANEL P1	WET FUEL MONITOR ENCLOSURE	PANEL POWER (1) GROUND TO BE GREEN/ YELLOW	
I001	3/4"	(2) #12	#12	SHUNT TRIP CONTACTOR	ESD BUTTONS	EMERGENCY SHUTDOWN LOOP	
I002	1"	(8) #14	#14	WET FUELS MONITOR ENCLOSURE	GASOLINE INST J-BOX	CONTACT CIRCUITS TO SENSOR J-BOX AT TANK	
I004	1"	(4) #18 TSP	-	WET FUELS MONITOR ENCLOSURE	GASOLINE INST J-BOX	SENSOR CKTS TO SENSOR J-BOX AT TANK	
I006	3/4"	(4) #18 TSP	-	GASOLINE INST J-BOX	GASOLINE TANK-TANK LEVEL PROBE #1	(1) PAIR SPARE	
I009	3/4"	(2) #14	#14	GASOLINE INST J-BOX	GASOLINE TANK CLOCK GAUGE	HIGH LEVEL ALARM CONTACT	
I012	3/4"	(2) #14	#14	GASOLINE INST J-BOX	GASOLINE TANK INTERSTITIAL LEAK SENSOR #1	LEAK SENSOR CONTACT	
I015	3/4"	(2) #14	#14	GASOLINE INST J-BOX	GAS LINE LEAK SENSOR #1	LEAK SENSOR CONTACT	
I018	1"	(2) #14	#14	WET FUELS MONITOR ENCLOSURE	GASOLINE TANK TRANSITION PUMP	LEAK SENSOR CONTACT	
I020	1"	(8) #12	#12	WET FUELS MONITOR ENCLOSURE	UNLEADED DISPENSER, U1 SUMP, UNLEADED DISPENSER, U2 SUMP, UNLEADED DISPENSER, U3 SUMP, UNLEADED DISPENSER, U4 SUMP	DISPENSER SUMP LEAK SENSOR CIRCUITS; DAISY CHAIN CONDUIT THROUGH DISPENSER BASES, DECREASING CONDUCTOR COUNT PER EACH DISPENSER	
I021	1"	(8) #12	#12	POWER PANEL P2	UNLEADED DISPENSER, U1 HOOK, UNLEADED DISPENSER, U2 HOOK, UNLEADED DISPENSER, U3 HOOK, UNLEADED DISPENSER, U4 HOOK	PUMP CALL HOOK SIGNALS; DAISY CHAIN CONDUIT THROUGH DISPENSER BASES, DECREASING CONDUCTOR COUNT PER EACH DISPENSER	
I023	1"	(2) #14	#14	WET FUELS MONITOR ENCLOSURE	PKM PANEL	PKM PANEL CONTROL POWER	
I024	1"	(2) #18 TSP	#18	PKM PANEL	VAPOR RECOVERY PUMP	LOCAL SENSORS	
NOTE 1: THIS SCHEDULE DOES NOT INCLUDE ALL CONDUITS AND CONDUCTORS NECESSARY TO FULFILL THE CONTRACTUAL OBLIGATIONS OF THE CONTRACTOR.							



LEGAL ENTITY:
ARCADIS U.S., INC.

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SEALS



UPS OAKLAND, CALIFORNIA

REFUELING FACILITY

ARCADIS PROJ. NO. 30136437

1	05/10/23	ISSUED FOR PERMIT	YL
0	02/09/23	CLIENT REVIEW	YL
NO.	DATE	ISSUED FOR	BY

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2021

DATE: MAY 2023

PROJECT NO.: 30136437

FILE NAME: E-09

DESIGNED BY: ADA

DRAWN BY: YL

CHECKED BY: DRG

SHEET TITLE

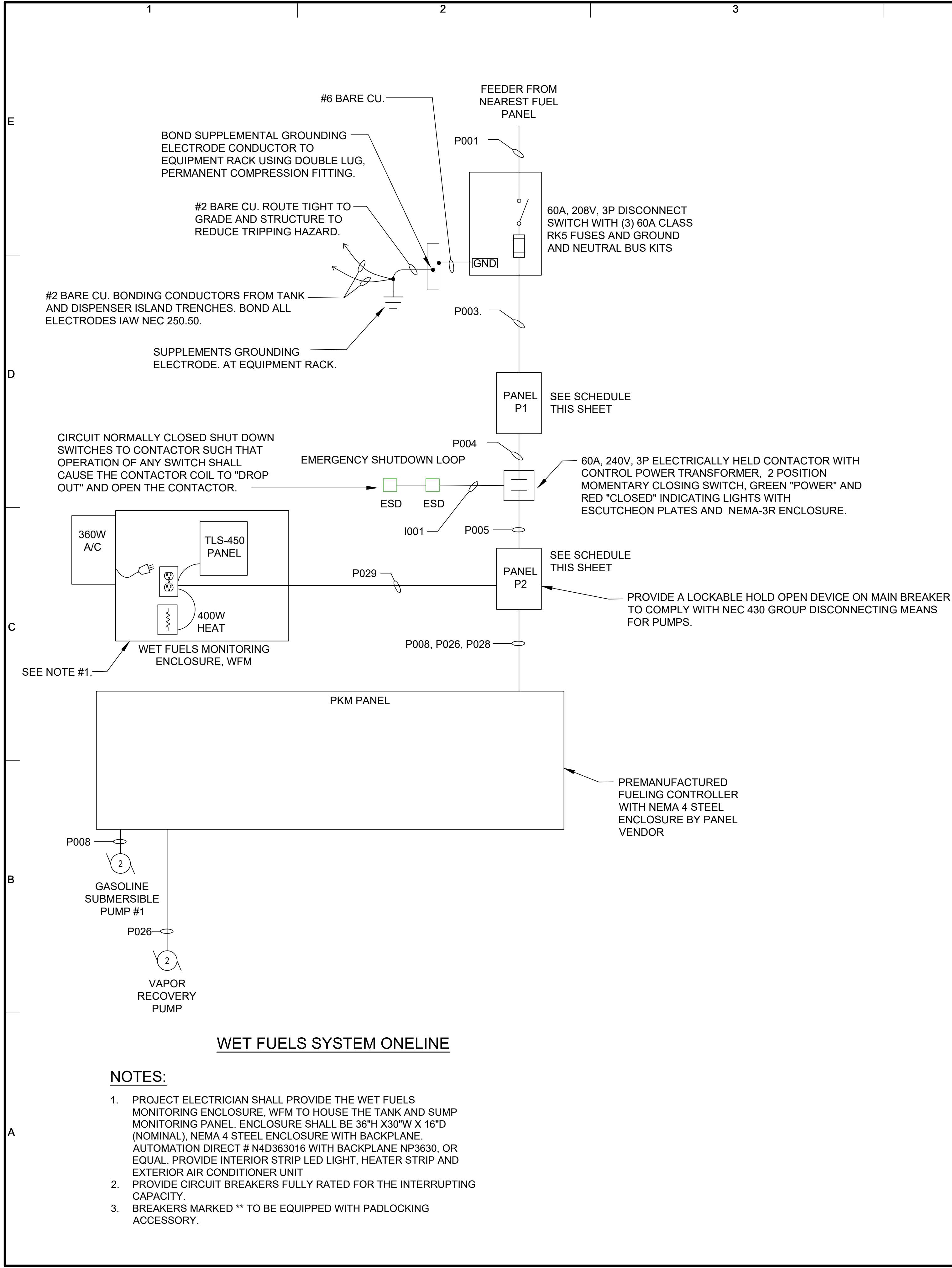
ELECTRICAL

ELECTRICAL
CONDUIT AND
CABLE SCHEDULE

SCALE:

E-09

SHEET OF



WET FUELS SYSTEM ONE-LINE

NOTES:

- PROJECT ELECTRICIAN SHALL PROVIDE THE WET FUELS MONITORING ENCLOSURE, WFM TO HOUSE THE TANK AND SUMP MONITORING PANEL. ENCLOSURE SHALL BE 36"H X30"W X 16"D (NOMINAL), NEMA 4 STEEL ENCLOSURE WITH BACKPLANE. AUTOMATION DIRECT # N4D363016 WITH BACKPLANE NP3630, OR EQUAL. PROVIDE INTERIOR STRIP LED LIGHT, HEATER STRIP AND EXTERIOR AIR CONDITIONER UNIT
- PROVIDE CIRCUIT BREAKERS FULLY RATED FOR THE INTERRUPTING CAPACITY.
- BREAKERS MARKED ** TO BE EQUIPPED WITH PADLOCKING ACCESSORY.

MFR. _____	PANEL NO. <u>P1</u>										LOCATION _____		OUTDOOR FUEL RACK _____	
TYPE _____	SERVICE <u>208Y/120V, 3PH, 4W</u>										MOUNTING _____		SURFACE _____	
BUS <u>100A</u>											DWG. NO. _____		E-02 _____	
DESCRIPTION	BREAKER		PHASE			PHASE			BREAKER		DESCRIPTION			
	POLE	AMPS	A	B	C	A	B	C	POLE	AMPS				
RACK GFCI RECEPT.	1	20	0.38			1		2	1.26			PKM FUEL CTRL PANEL. VIA POWER CONTACTOR		
SPARE	1	20				3		4	2.06		3		50	
SPARE	1	20				5		6		2.57				
SPARE	1	20				7		8			1	20	SPARE	
SPARE	1	20				9		10			1	20	SPARE	
SPARE	1	20				11		12			1	20	SPARE	
KVA	PHASE A <u>1.64</u>					MAIN BREAKER <u>60A</u>					LINE AMPS (CALC.) <u>17.40A</u>			
	PHASE B <u>2.06</u>					LOCATION <u>TOP</u>					A.I.C. (AMPS) <u>10,000</u>			
	PHASE C <u>2.57</u>					FEEDER SIZE <u>SEE SCHEDULE</u>					KVA DEMAND (CALC.) <u>6.27</u>			
	TOTAL <u>6.27</u>					SOURCE <u>FACILITY</u>								

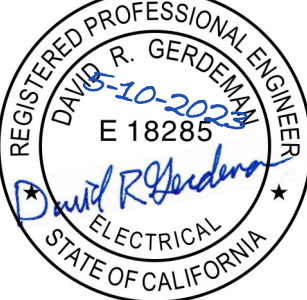
MFR. _____	PANEL NO. <u>P2</u>						LOCATION	WET FUELS ENCLOSURE					
TYPE _____	SERVICE <u>208Y/120V, 3PH, 4W</u>						MOUNTING	SURFACE					
BUS <u>50A</u>							DWG. NO.	E-03					
DESCRIPTION	BREAKER		PHASE				PHASE			BREAKER		DESCRIPTION	
	POLE	AMPS	A	B	C		A	B	C	POLE	AMPS		
LIGHTING POLES	2	20	0.25		1		2			1	20	SPARE	
				0.25	3		4			1	20	SPARE	
PKM CONTROL POWER	1	20	.		1.2	5	6	.		1	20	SPARE	
SPARE	1	20			.	7	8		.	1	20	SPARE	
GASOLINE SUBMERSIBLE PUMP SUBMERSIBLE PUMP #1			0.48		9		10	0.53				VAPOR RECOVERY PUMP	
	3	20		0.48	11		12		0.53	.	3		20
					0.48	13		14	.		0.53		
WET FUELS MONITORING ENCL.	1	20	0.80		15		16			1	20	SPARE	
THERMAL OXIDIZER	1	20		0.36	17		18			1	20	SPARE	
SPARE	1	20			19		20		.	1	20	SPARE	
SPARE	1	20			21		22	.		1	20	SPARE	
SPARE	1	20			23		24		.	1	20	SPARE	
KVA	PHASE A <u>1.26</u>		MAIN LUGS		<u>50A</u>		LINE AMPS (CALC.)		<u>16.38A</u>				
	PHASE B <u>2.06</u>		LOCATION		<u>TOP</u>		A.I.C. (AMPS)		<u>10,000</u>				
	PHASE C <u>2.57</u>		FEEDER SIZE		<u>SEE SCHEDULE</u>		KVA DEMAND (CALC.)		<u>5.90</u>				
	TOTAL <u>5.90</u>		SOURCE		<u>MDP</u>								



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DATE: MAY 2023
PROJECT NO.: 30136437
FILE NAME: E-10
DESIGNED BY: ADA
DRAWN BY: YL
CHECKED BY: DRG

SHEET TITLE

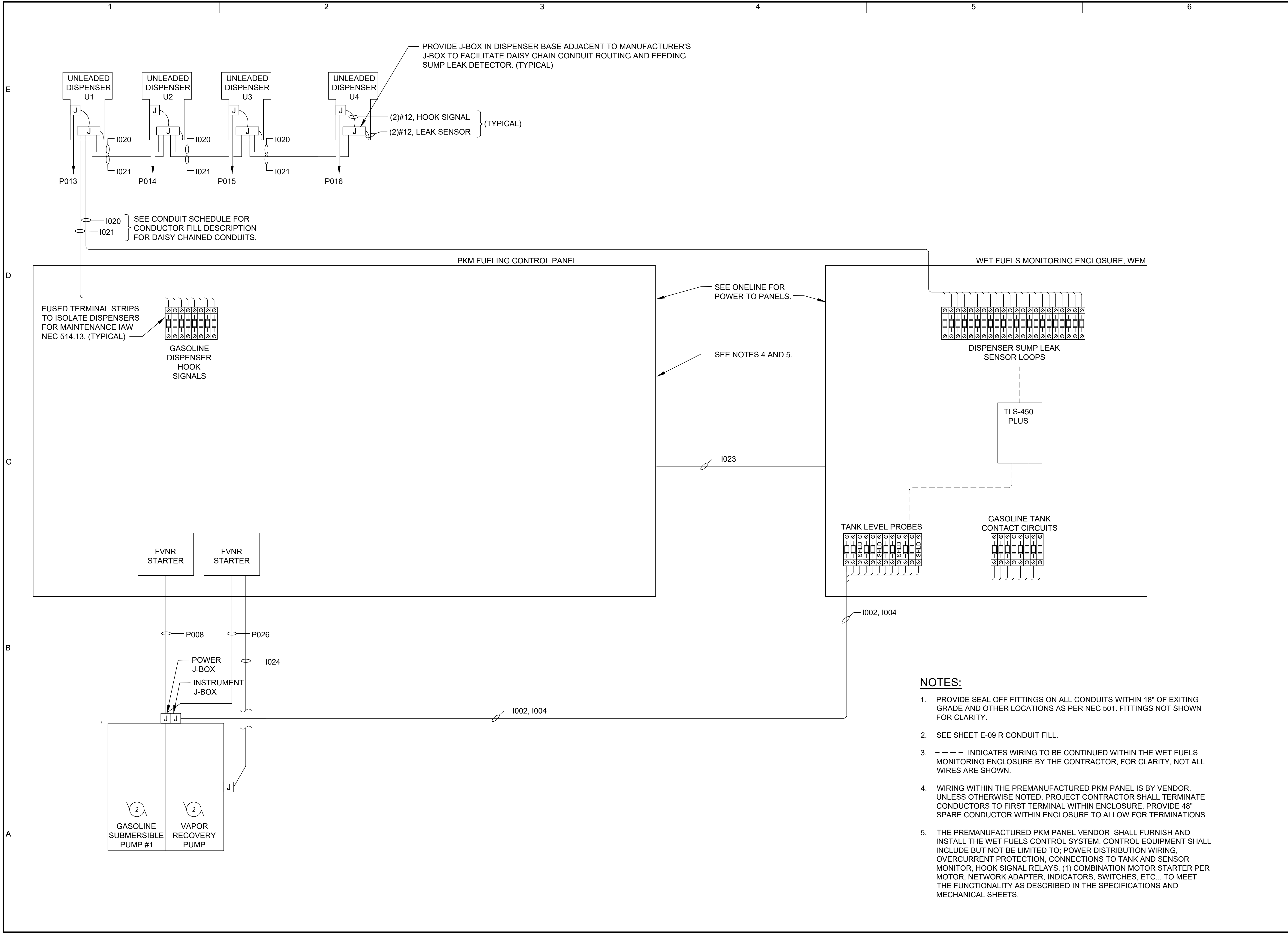
ELECTRICAL

ELECTRICAL
ONE-LINE AND
PANEL SCHEDULE

SCALE:

E-10

SHEET _____ OF _____



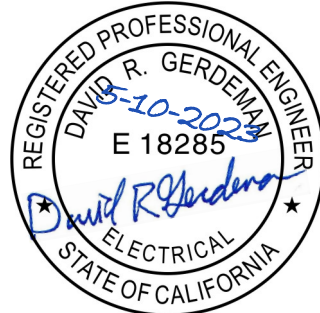
- NOTES:**
1. PROVIDE SEAL OFF FITTINGS ON ALL CONDUITS WITHIN 18" OF EXITING GRADE AND OTHER LOCATIONS AS PER NEC 501. FITTINGS NOT SHOWN FOR CLARITY.
 2. SEE SHEET E-09 R CONDUIT FILL.
 3. - - - - INDICATES WIRING TO BE CONTINUED WITHIN THE WET FUELS MONITORING ENCLOSURE BY THE CONTRACTOR, FOR CLARITY, NOT ALL WIRES ARE SHOWN.
 4. WIRING WITHIN THE PREMANUFACTURED PKM PANEL IS BY VENDOR. UNLESS OTHERWISE NOTED, PROJECT CONTRACTOR SHALL TERMINATE CONDUCTORS TO FIRST TERMINAL WITHIN ENCLOSURE. PROVIDE 48" SPARE CONDUCTOR WITHIN ENCLOSURE TO ALLOW FOR TERMINATIONS.
 5. THE PREMANUFACTURED PKM PANEL VENDOR SHALL FURNISH AND INSTALL THE WET FUELS CONTROL SYSTEM. CONTROL EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO; POWER DISTRIBUTION WIRING, OVERCURRENT PROTECTION, CONNECTIONS TO TANK AND SENSOR MONITOR, HOOK SIGNAL RELAYS, (1) COMBINATION MOTOR STARTER PER MOTOR, NETWORK ADAPTER, INDICATORS, SWITCHES, ETC... TO MEET THE FUNCTIONALITY AS DESCRIBED IN THE SPECIFICATIONS AND MECHANICAL SHEETS.



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2021

DATE:	MAY 2023
PROJECT NO.:	30136437
FILE NAME:	E-11
DESIGNED BY:	ADA
DRAWN BY:	YL
CHECKED BY:	DRG

SHEET TITLE

ELECTRICAL

WET FUEL
CONTROLS
GENERAL RISER
DIAGRAM

SCALE:

E-11

SHEET OF