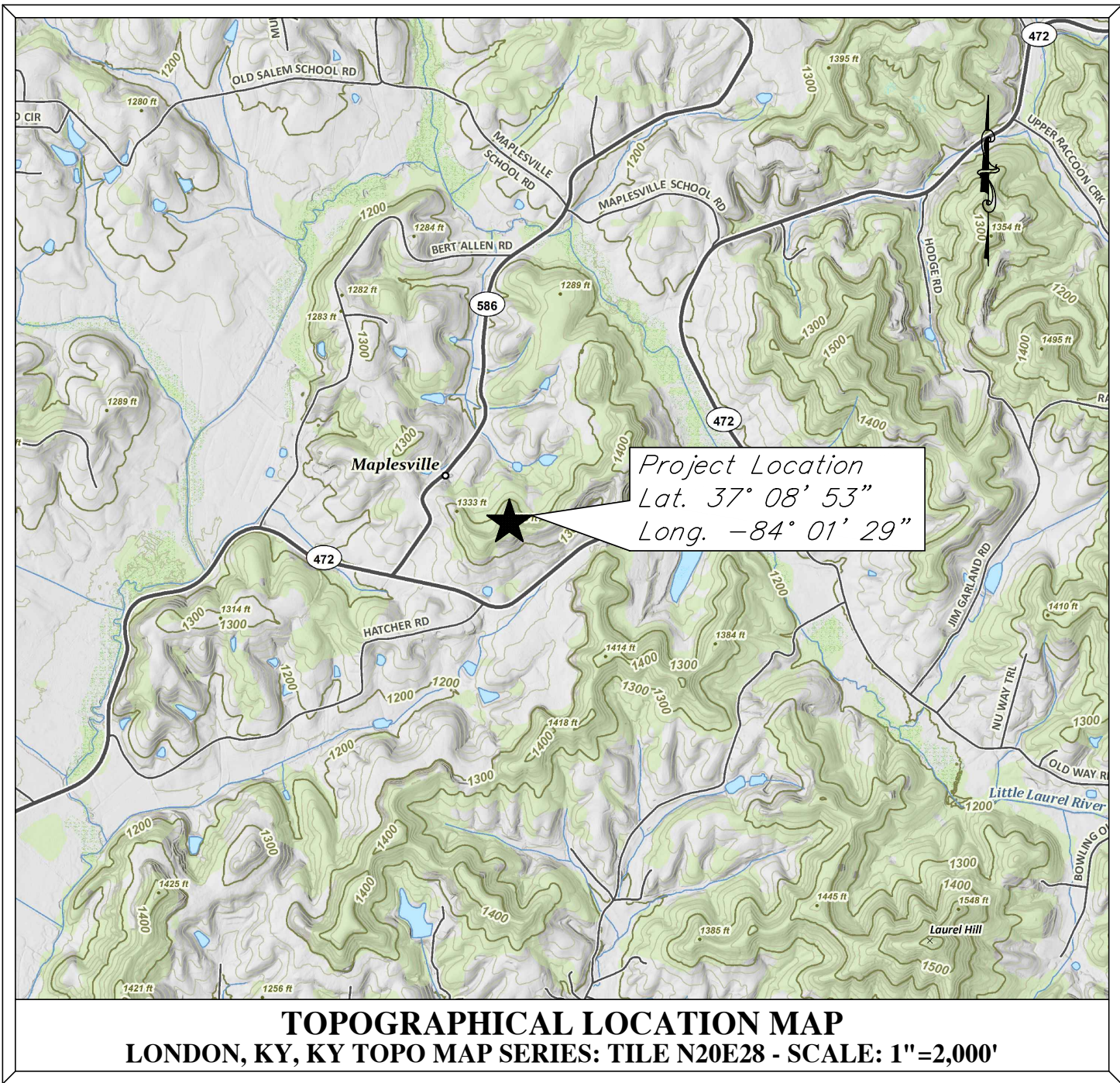
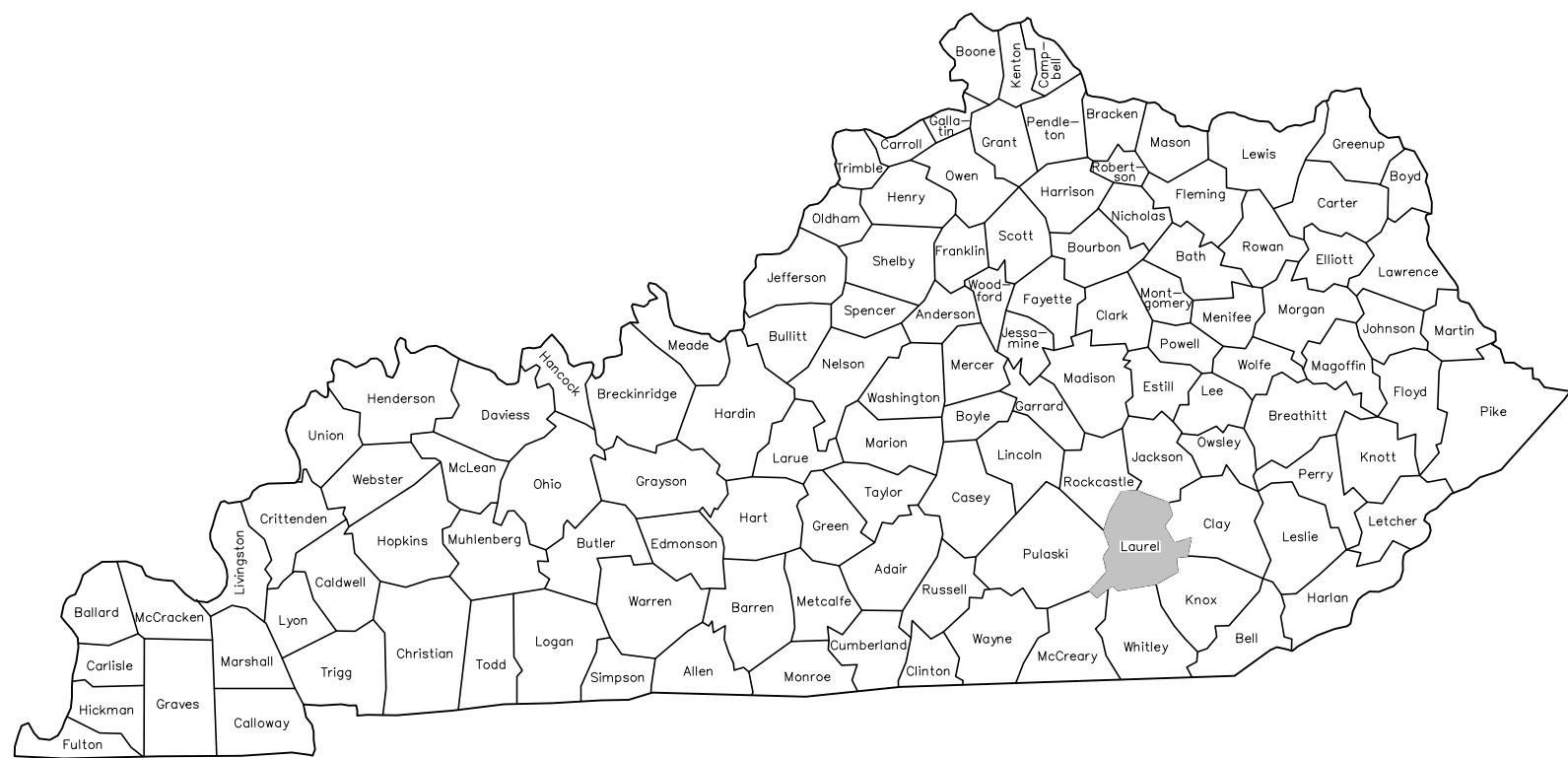


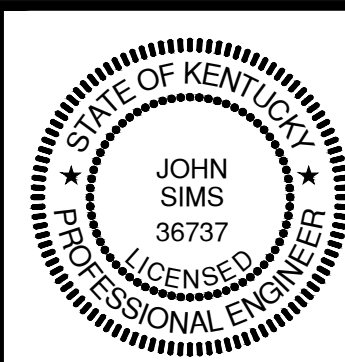
EAST LAUREL WATER DISTRICT
OLD SALEM ROAD/McWHORTER ROAD
SYSTEM IMPROVEMENTS
CONTRACT NO. 3
LAUREL COUNTY, KENTUCKY



INDEX OF SHEETS

DESCRIPTION	SHEET NO.
COVER SHEET	---
SITE PLAN & GENERAL NOTES	1
GLASS COATED BOLTED STEEL TANK	2
WELDED STEEL TANK	3
TANK DETAILS	4
MISCELLANEOUS DETAILS	5
ELECTRICAL DETAILS	6

Prepared By:



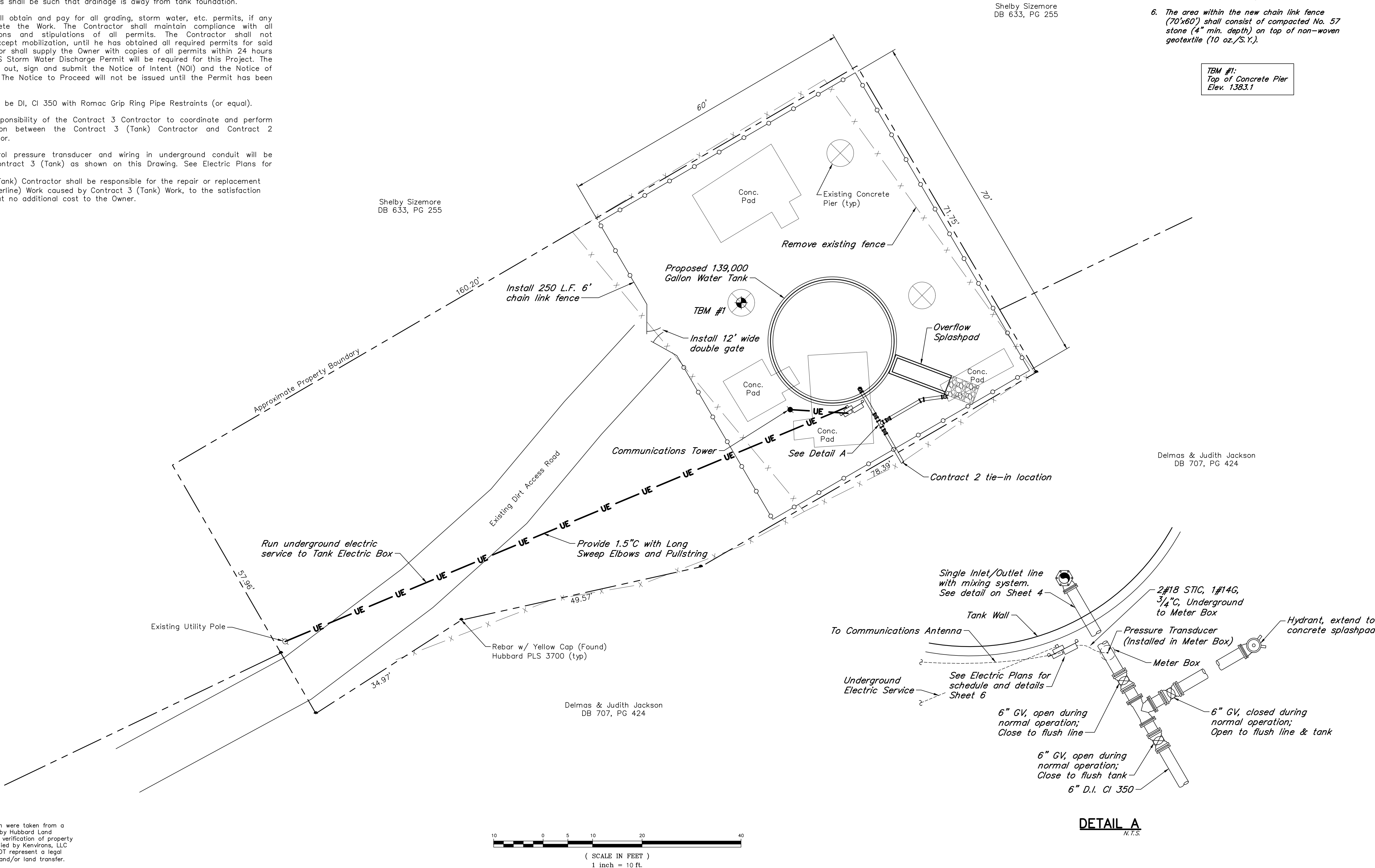
GENERAL NOTES

1. Drawings of tank and associated elements are for illustrative purposes only. The tank Contractor shall provide the tank and foundation design certified by a professional engineer registered in the State of Kentucky.
2. Drawings represent the desired result of construction. The methods of construction and risks involved during construction are the responsibility of the Contractor.
3. Geotechnical investigation of the site has been done. The associated report is contained in the Specifications.
4. The final tank subgrade conditions shall be approved by the geotechnical engineer prior to any concrete placement.
5. Contractor shall verify all dimensions and elevations prior to construction and promptly report any discrepancies noted to the Engineer.
6. Contractor's proposed substitutions shall be approved by the Engineer prior to commencing any pertinent Work.
7. Regrade of the sites shall be such that drainage is away from tank foundation.
8. The Contractor shall obtain and pay for all grading, storm water, etc. permits, if any required to complete the Work. The Contractor shall maintain compliance with all conditions, limitations and stipulations of all permits. The Contractor shall not commence Work, except mobilization, until he has obtained all required permits for said Work. The Contractor shall supply the Owner with copies of all permits within 24 hours of receipt. A KPDES Storm Water Discharge Permit will be required for this Project. The Contractor shall fill out, sign and submit the Notice of Intent (NOI) and the Notice of Termination (NOT). The Notice to Proceed will not be issued until the Permit has been provided.
9. All yard piping shall be DI, CI 350 with Romac Grip Ring Pipe Restraints (or equal).
10. It shall be the responsibility of the Contract 3 Contractor to coordinate and perform the final connection between the Contract 3 (Tank) Contractor and Contract 2 (Waterline) Contractor.
11. A tank level control pressure transducer and wiring in underground conduit will be installed by the Contract 3 (Tank) as shown on this Drawing. See Electric Plans for further detail.
-The Contract 3 (Tank) Contractor shall be responsible for the repair or replacement of Contract 2 (Waterline) Work caused by Contract 3 (Tank) Work, to the satisfaction of the Owner and at no additional cost to the Owner.

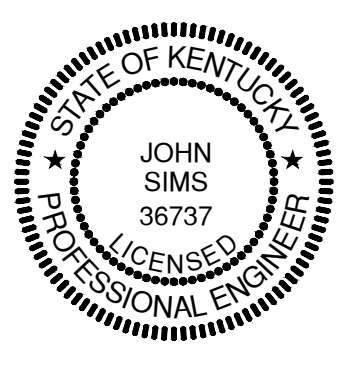
SHEET NOTES

1. All Yard Piping shall be Ductile Iron, Class 350.
2. The Contractor shall remove the three existing concrete pads south of the existing concrete tower piers and dispose of the concrete.
3. The Contractor shall take down the existing radio tower and place it on the Jackson property which is adjacent to the tank site at a predetermined location.
4. Any exposed rebar, bolts, hardware, etc. remaining on the existing concrete piers shall be removed, or ground smooth to the top of the remaining concrete pier. Alternatively, the piers may be removed and disposed of.
5. Once the tank is complete and operational, the Contractor shall restore the existing access road to the original condition.
6. The area within the new chain link fence (70'x60') shall consist of compacted No. 57 stone (4" min. depth) on top of non-woven geotextile (10 oz./S.Y.).

TBM #1:
Top of Concrete Pier
Elev. 1383.1

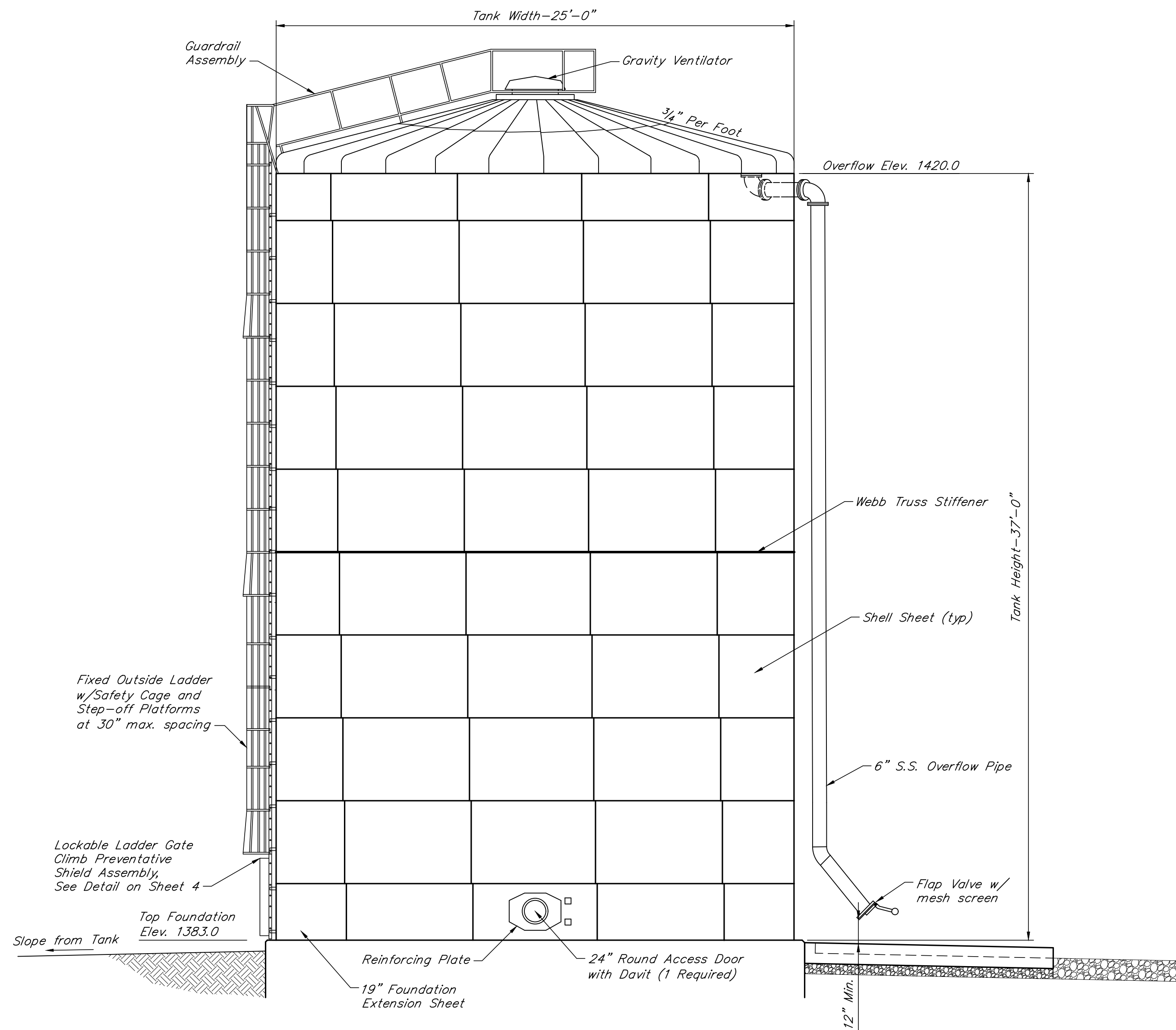


The approximate property lines shown hereon were taken from a boundary & easement survey plot prepared by Hubbard Land Surveying, LLC dated Nov. 6, 2020. No field verification of property boundary locations was performed or is implied by Kenvirons, LLC. The approximate property lines shown DO NOT represent a legal survey and shall not be used for recording and/or land transfer.



DRAWN BY: JRP	CHECKED BY: BRW
CHECKED BY: BRW	DATE: March 2025
SCALE: As Noted	REVISIONS
REVISIONS	

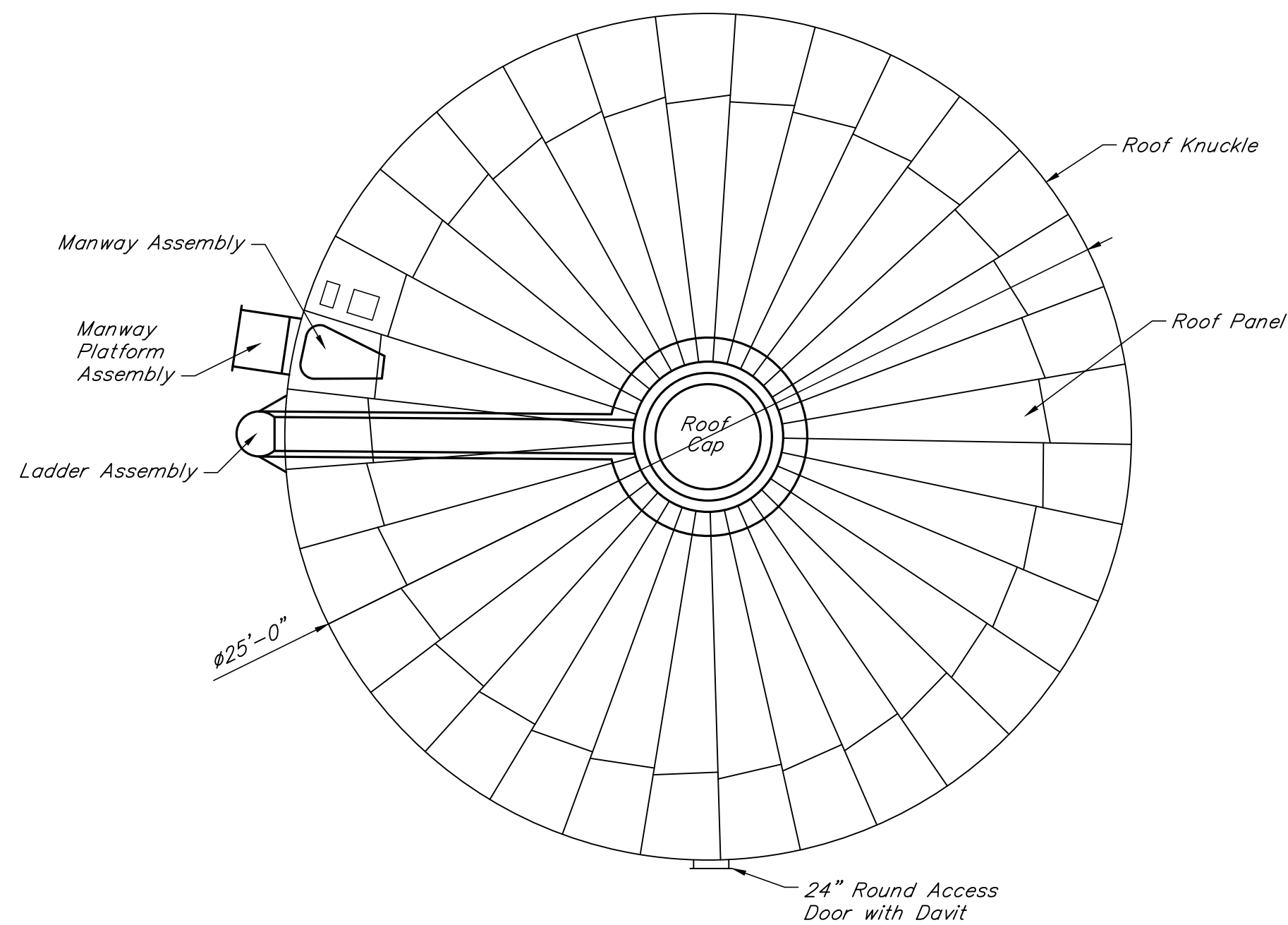
N:\P\2020052\Plans\Contract 3\02 Glass Coated Bolted Steel Tank.dwg, 04/22/2023 5:53:06 AM, jpowell



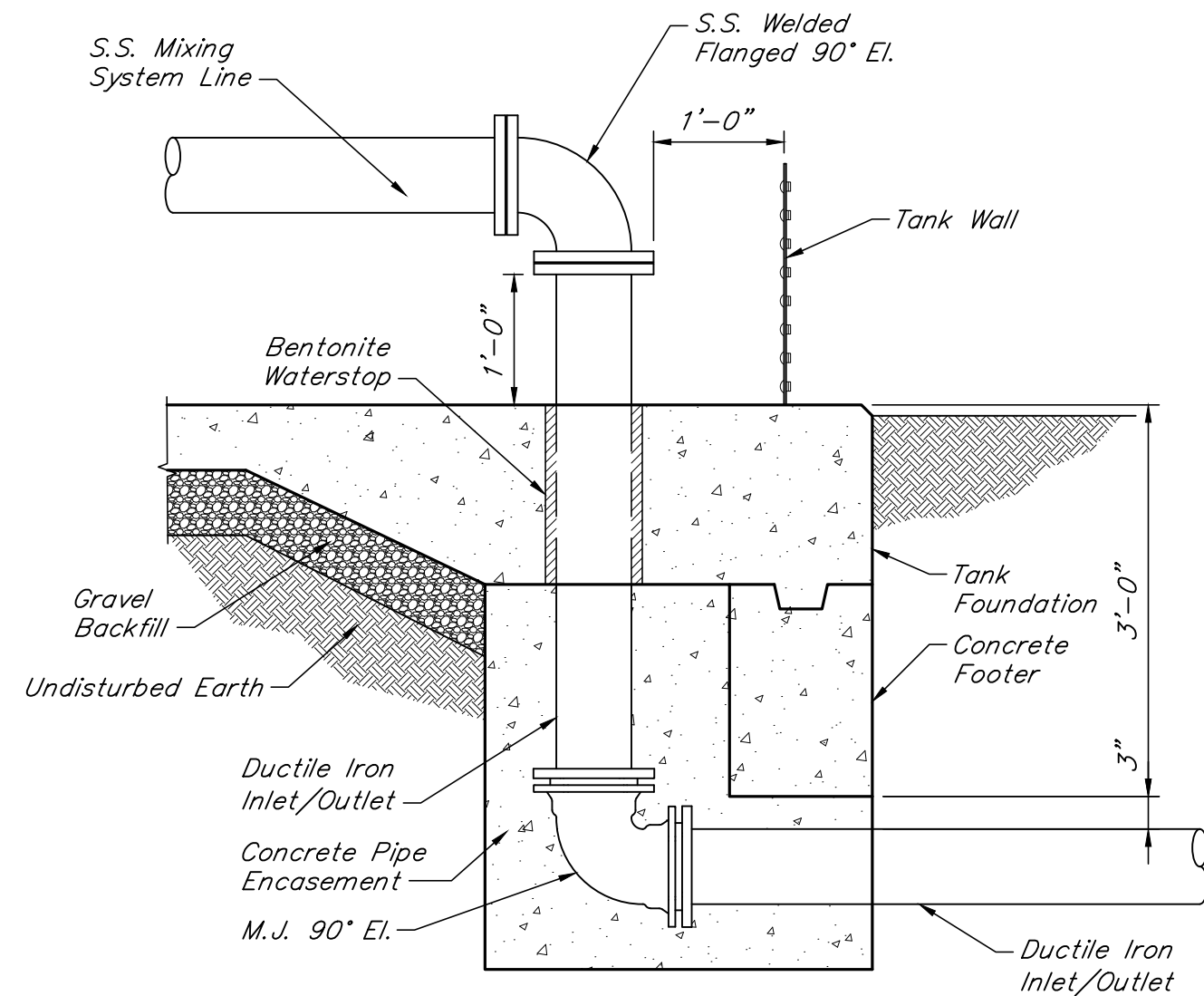
NOTES:

1. This drawing is intended as a general representation of the proposed tank, actual design shall be provided by the tank manufacturer, therefore, it is not to be used for construction.
2. Locations for ladder, manway, water level gauge, access door, and overflow are to be field located by the Engineer to fit site conditions.

GLASS COATED BOLTED STEEL TANK
Scale: 1/4"=1'-0"



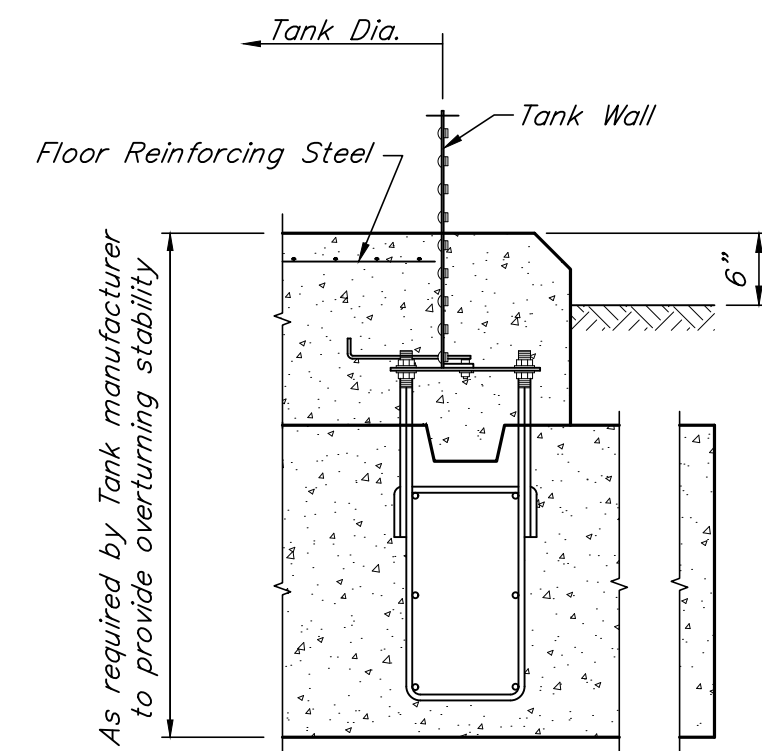
GLASS COATED BOLTED STEEL TANK ROOF PLAN
Scale: 1/4"=1'-0"



NOTES:

1. This drawing represents a typical floor penetration. It is intended as a general representation and should not be used for construction, refer to tank manufacturer drawings for site specific instructions.
2. Provided dimensions are also typical, and should be superseded by any dimensions provided by the manufacturer.
3. Mechanical joint fittings are to be restrained with EBAA Iron megalugs, or approved equal.

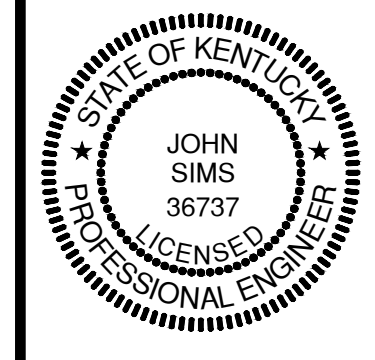
TYPICAL TANK FLOOR PENETRATION
Scale: 3/4"=1'-0"



NOTES:

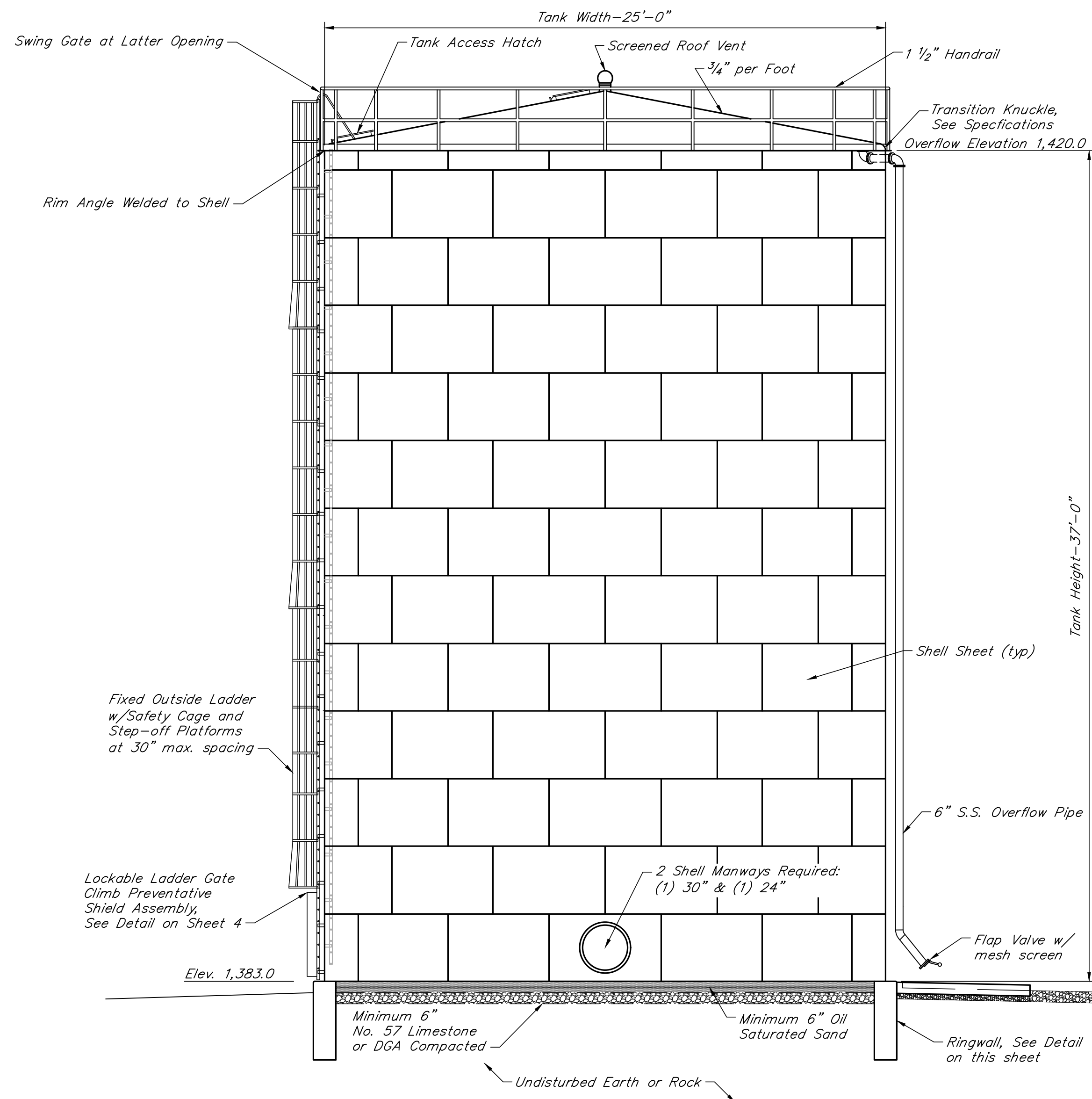
1. Required bearing area is based on the recommendations contained in the geotechnical exploration report.
2. Floor reinforcing steel is to be installed per tank manufacturer's foundation design.

CONCRETE TANK BOTTOM
N.T.S.



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CHECKED BY: BRW	
DATE: March 2025	
SCALE: As Noted	
REVISIONS	

N:\P\2020052\Plan\Contract 3\03 Welded Steel Tank.dwg, 6/12/2025 9:53:15 AM, jpowell

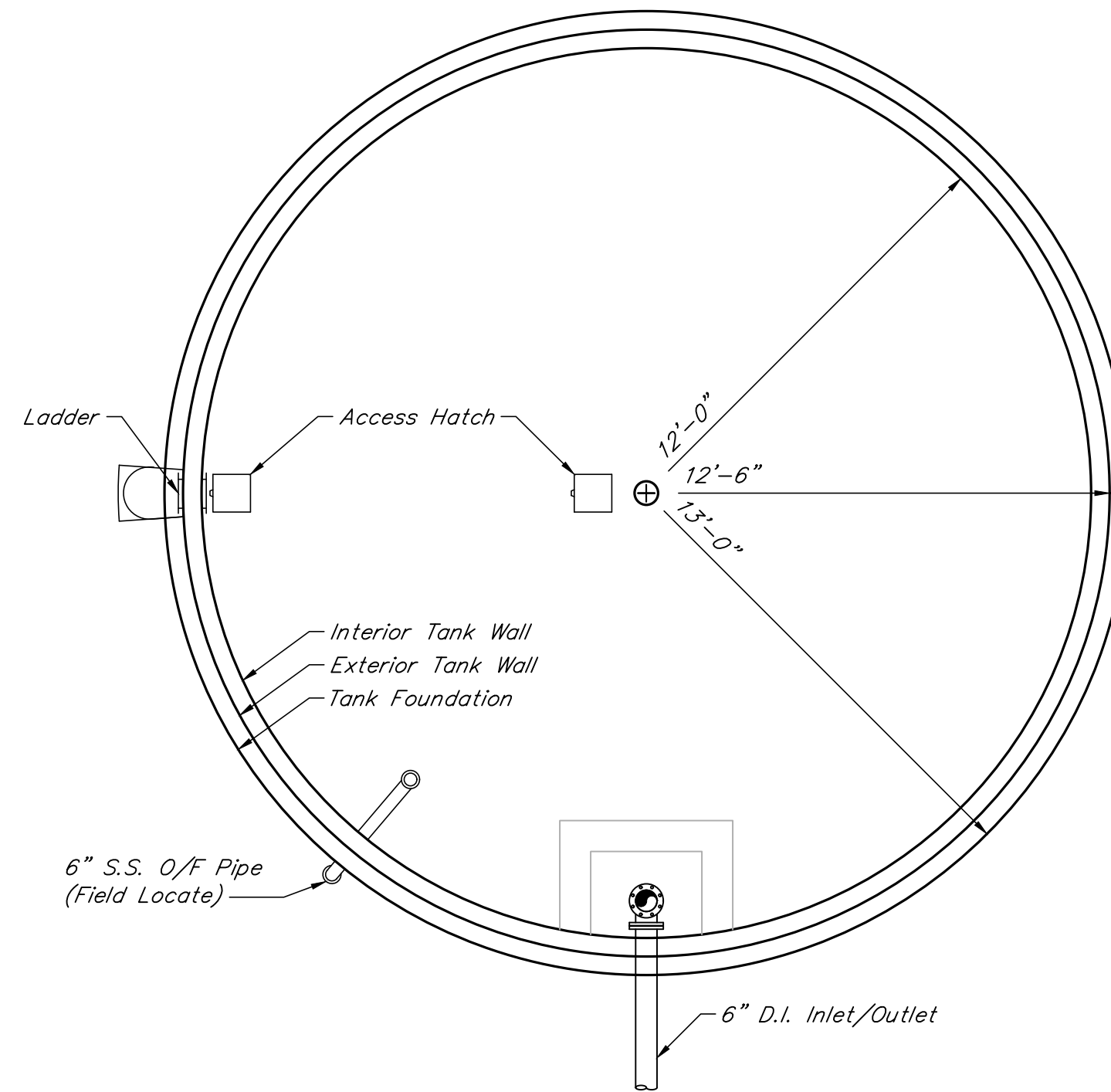


NOTES:

1. This drawing is intended as a general representation of the proposed tank, actual design shall be provided by the tank manufacturer, therefore, it is not to be used for construction.
2. Locations for ladder, manway, water level gauge, access door, and overflow are to be field located by the Engineer to fit site conditions.

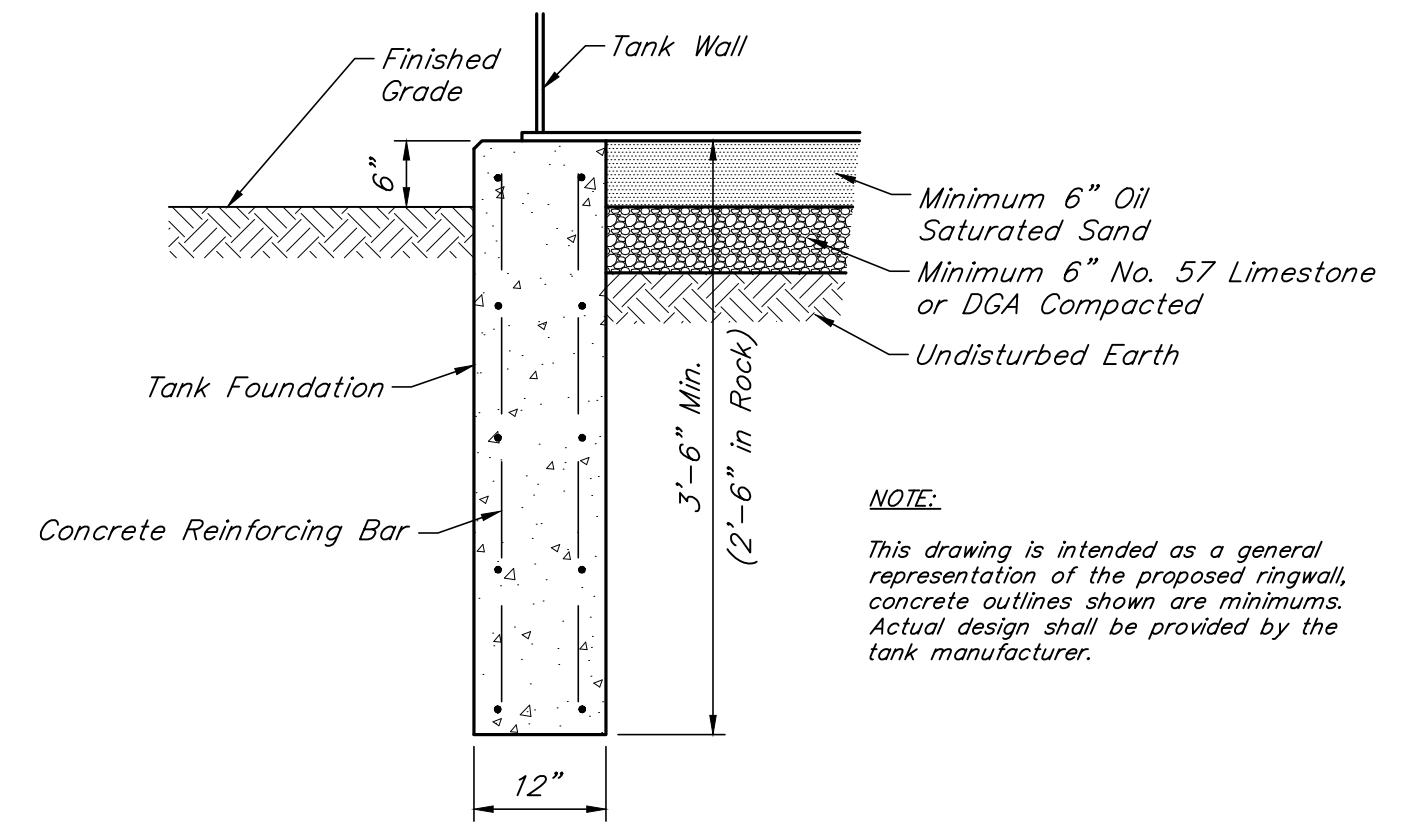
WELDED STEEL TANK

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



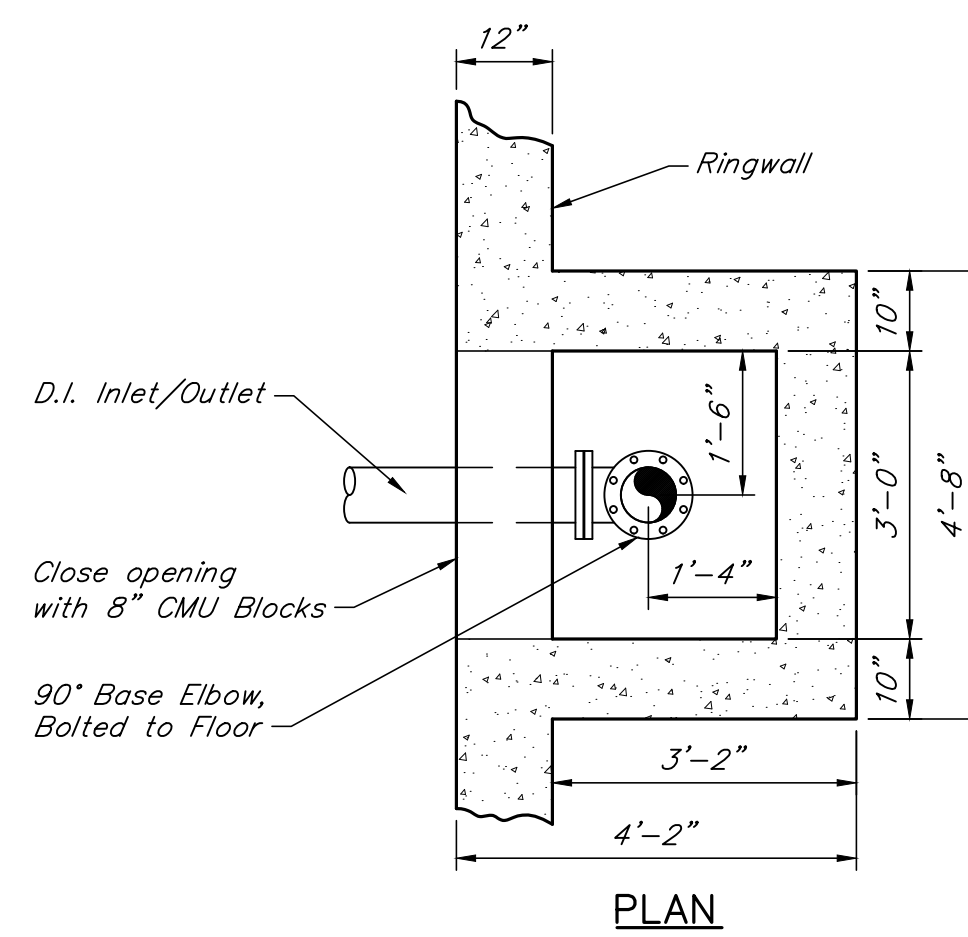
WELDED STEEL TANK PLAN

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



TANK FOUNDATION RINGWALL

N.T.S.

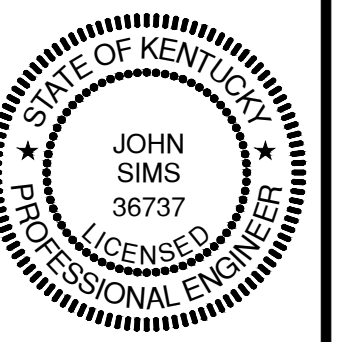
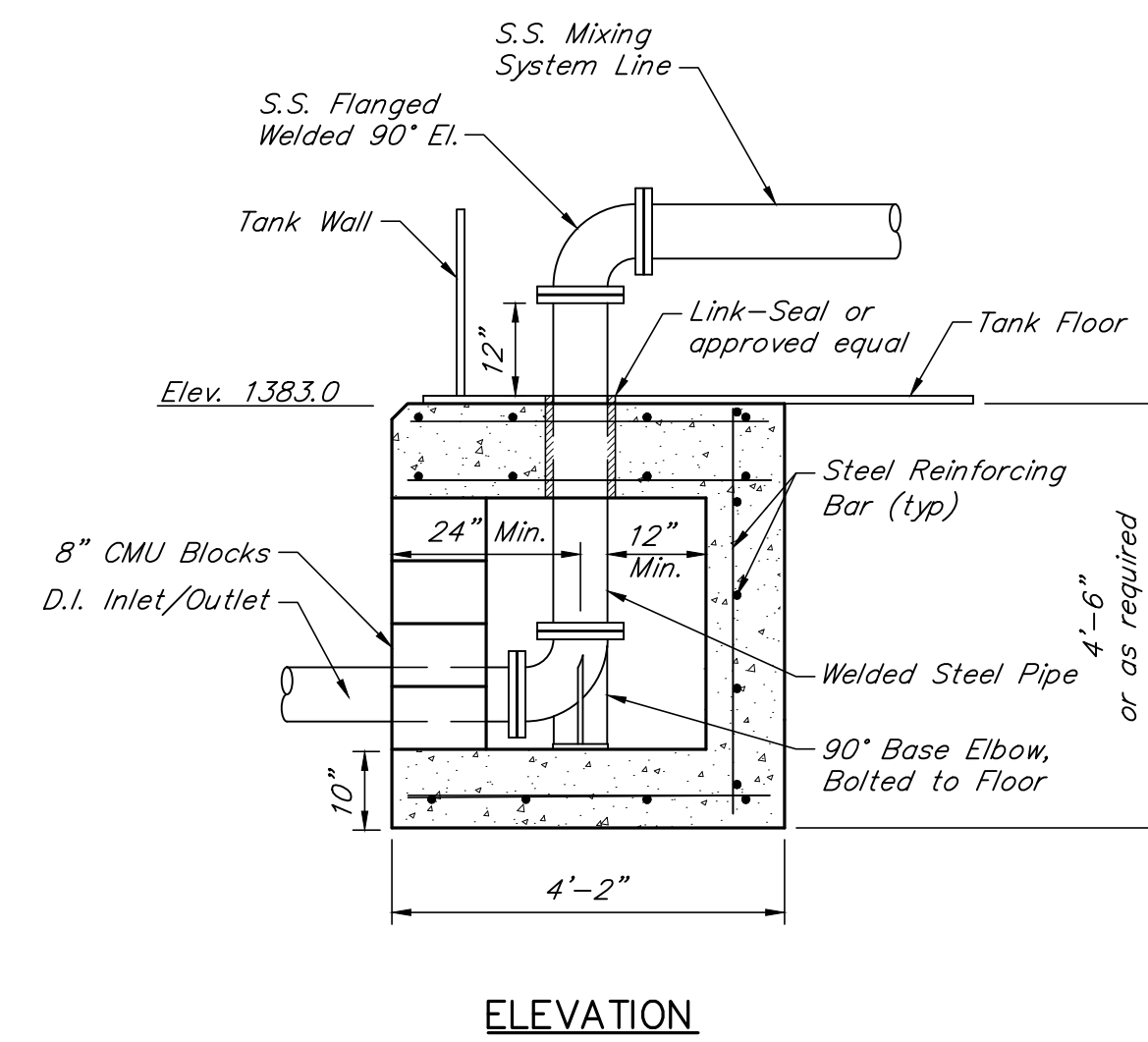


NOTE:

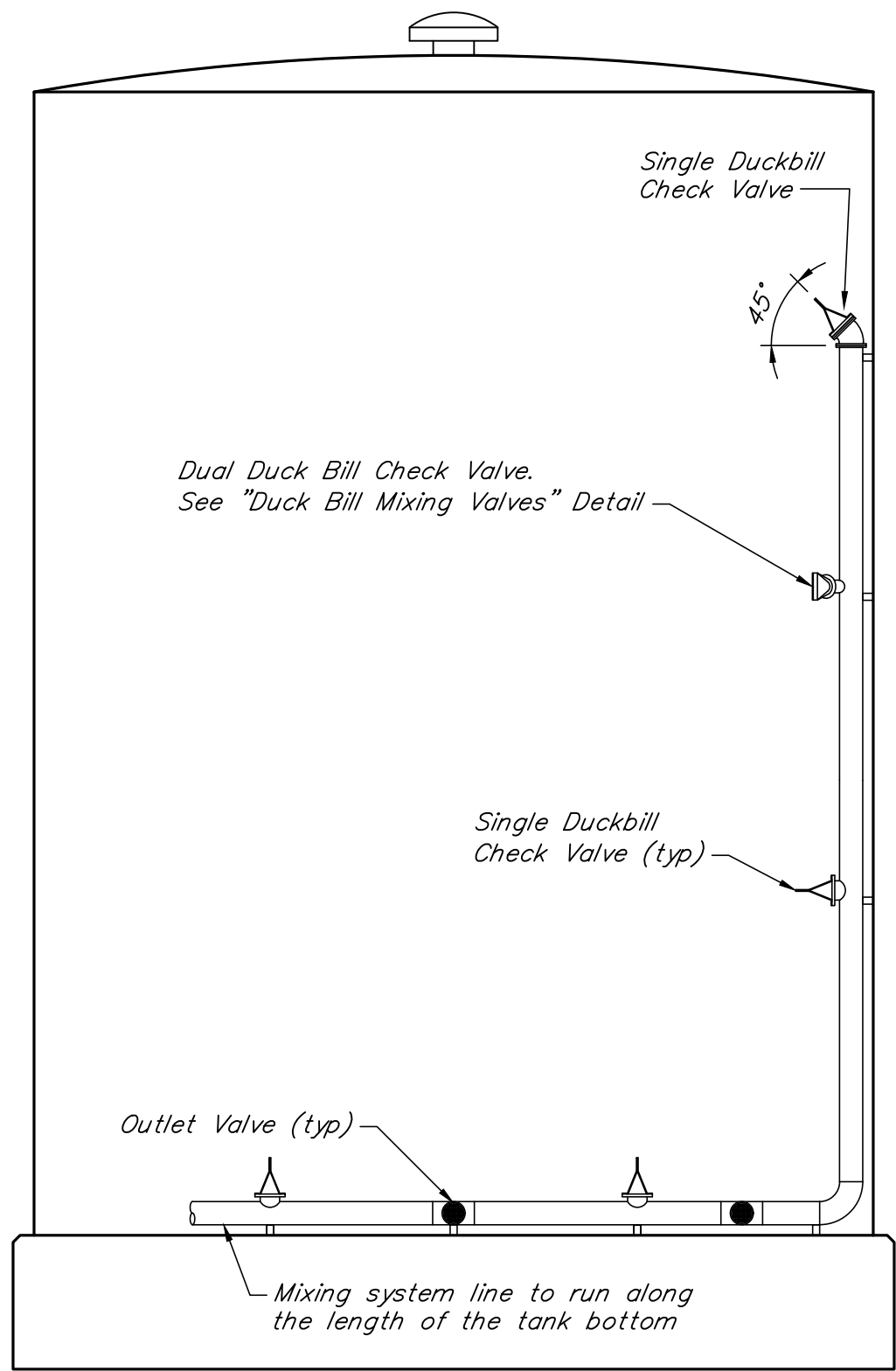
Pipe vault is an integral part of the tank foundation design. The concrete outlines and steel reinforcement are for illustration only, and shall not be used for construction. The foundation design shall be provided by the tank manufacturer.

WELDED STEEL TANK PIPE VAULT

Scale: 1/2"=1'-0"

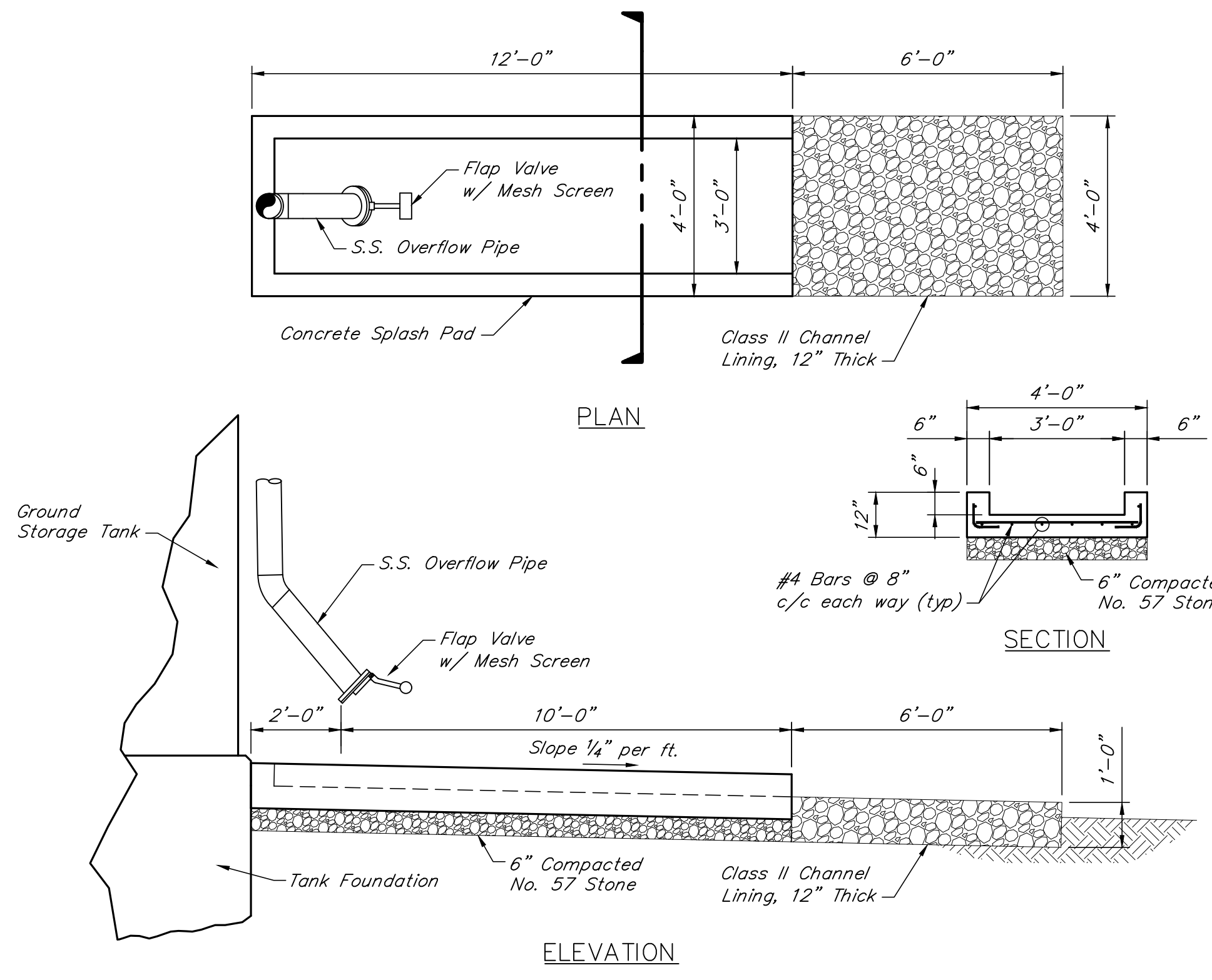


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CHECKED BY: EWB	DATE: March 2025
SCALE: As Noted	REVISIONS

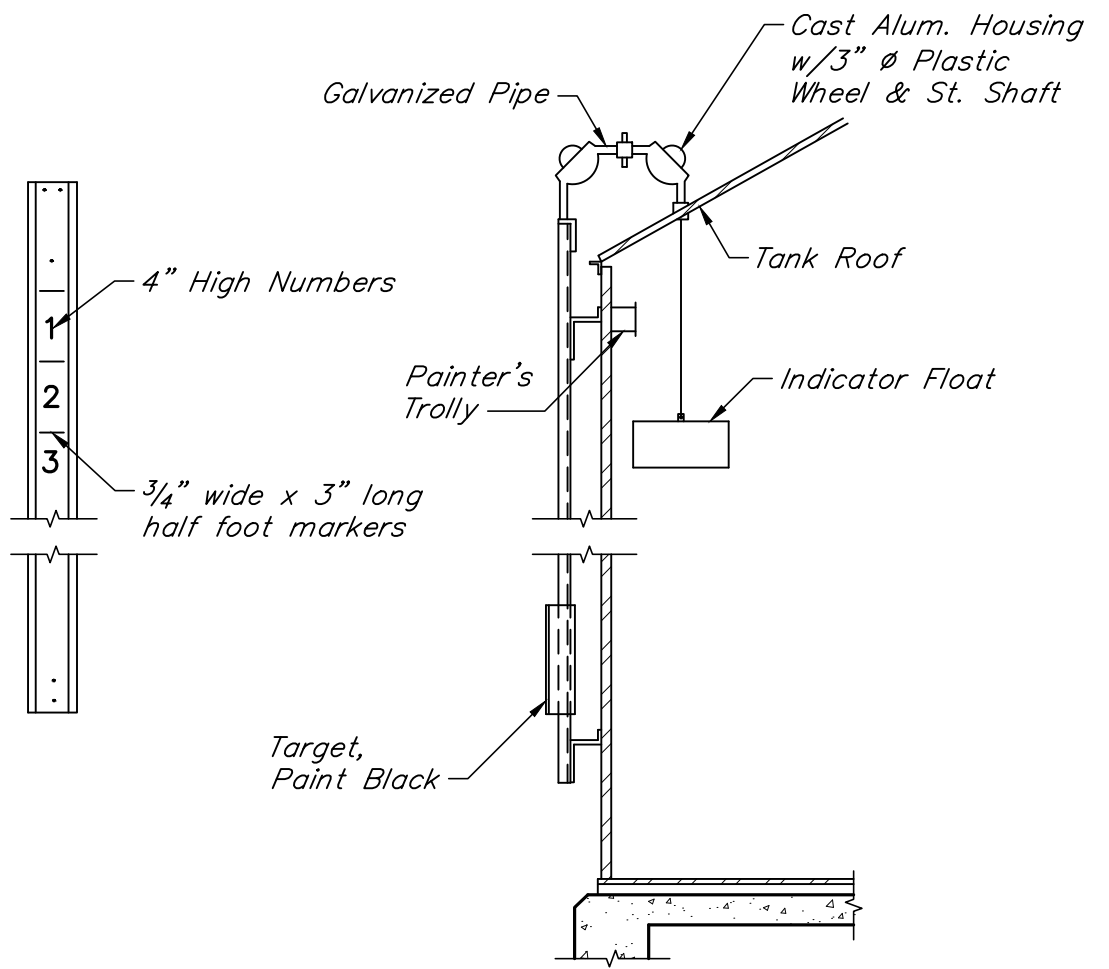


- MIXING SYSTEM NOTES:**
1. This drawing is not to be used for construction, it is intended as a general representation only. Actual mixing system design for the valves shall be provided by the manufacturer of the mixing system with approval of Engineer.
 2. Quantity, size, elevations, locations and discharge angles of inlet nozzles are tank specific and are shown for general illustration purposes only. The bid price shall include site specific mixing system design, prepared and submitted by the mixing system manufacturer and approved by the Engineer.
 3. Duckbill check valves shall be NSF approved elastomeric, flanged-end valves as manufactured by Red Valve Company, Inc., Series 35, or approved equal.
 4. Outlet check valves shall be NSF approved elastomeric, flanged-end valves as manufactured by Red Valve Company, Inc., Waterflex Series WF-3, or approved equal.
 5. Piping shall be provided by the Contractor.

GROUND STORAGE TANK MIXING SYSTEM
N.T.S.

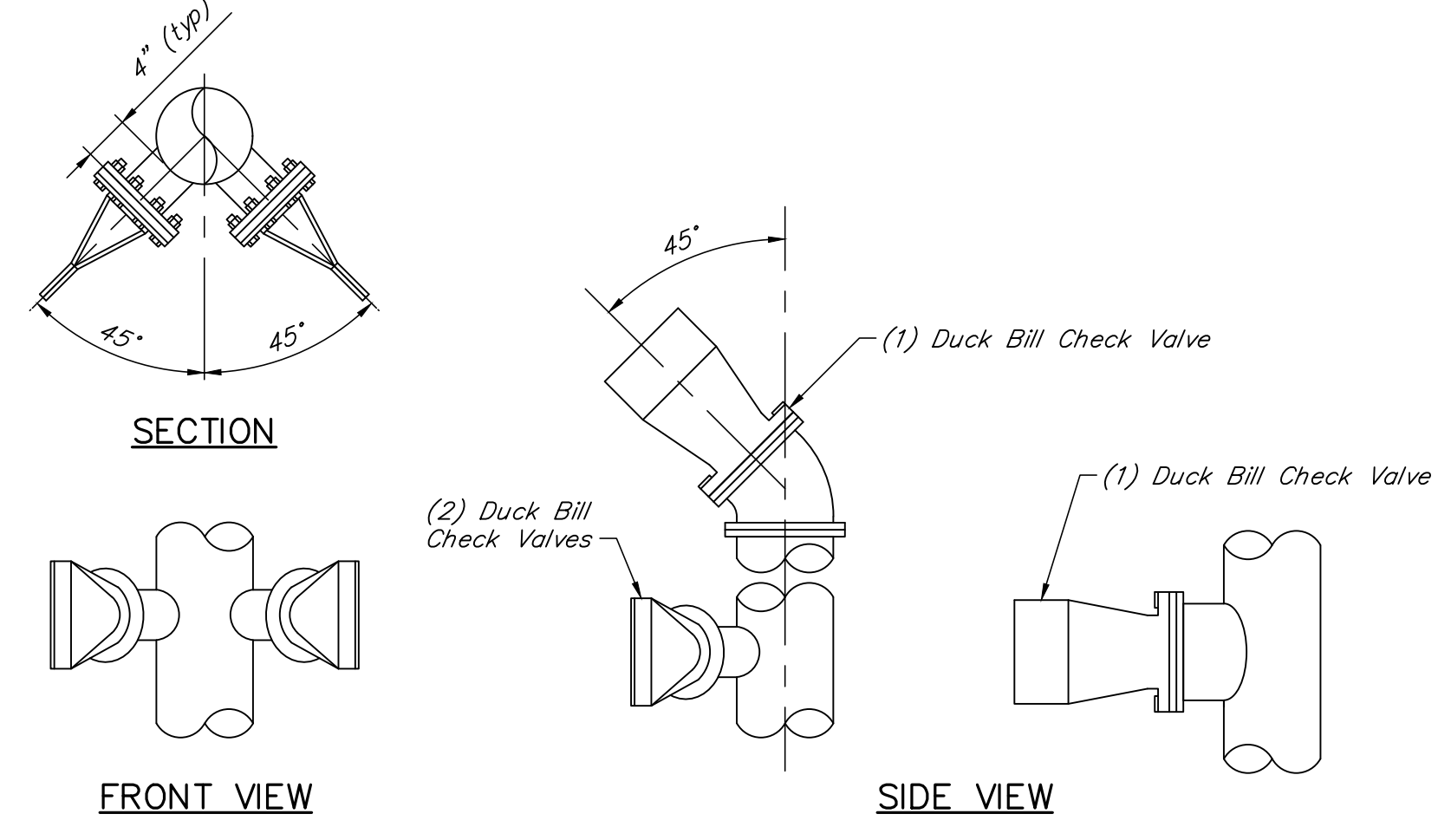


OVERFLOW SPLASH PAD
Scale: 3/8"=1'-0"



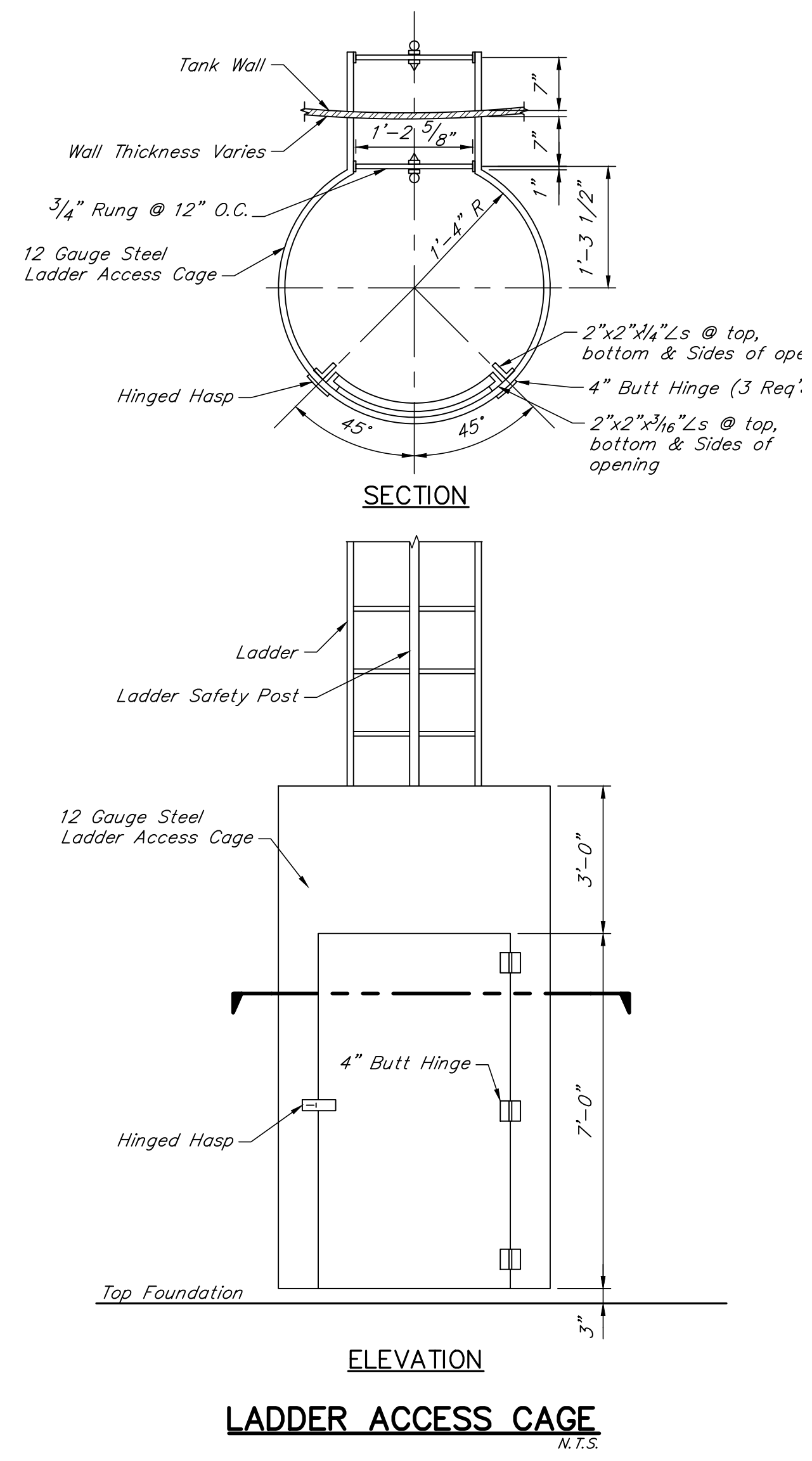
- NOTES:**
1. This detail is applicable to Glass Coated and Bolted Steel Tanks.
 2. Gauge board is to be painted per paint specifications. Face to be painted white with black numbers. Numbering shall be done prior to erection, with touch-ups and necessary.

OVERFLOW AND WATER LEVEL INDICATOR
N.T.S.

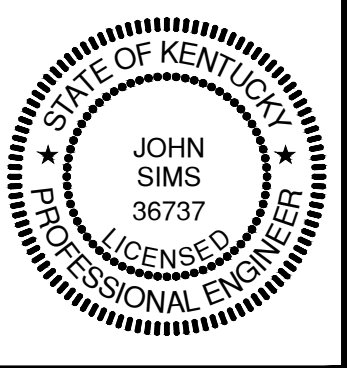


- MIXING VALVE NOTES:**
1. This drawing is not to be used for construction, it is intended as a general representation only. Actual design for the valves shall be provided by the manufacturer with approval of Engineer.
 2. Duckbill Check Valves shall be NSF approved elastomeric, flanged-end valves as manufactured by Red Valve Company, Inc., Series 35, or approved equal.

DUCKBILL MIXING VALVES
N.T.S.

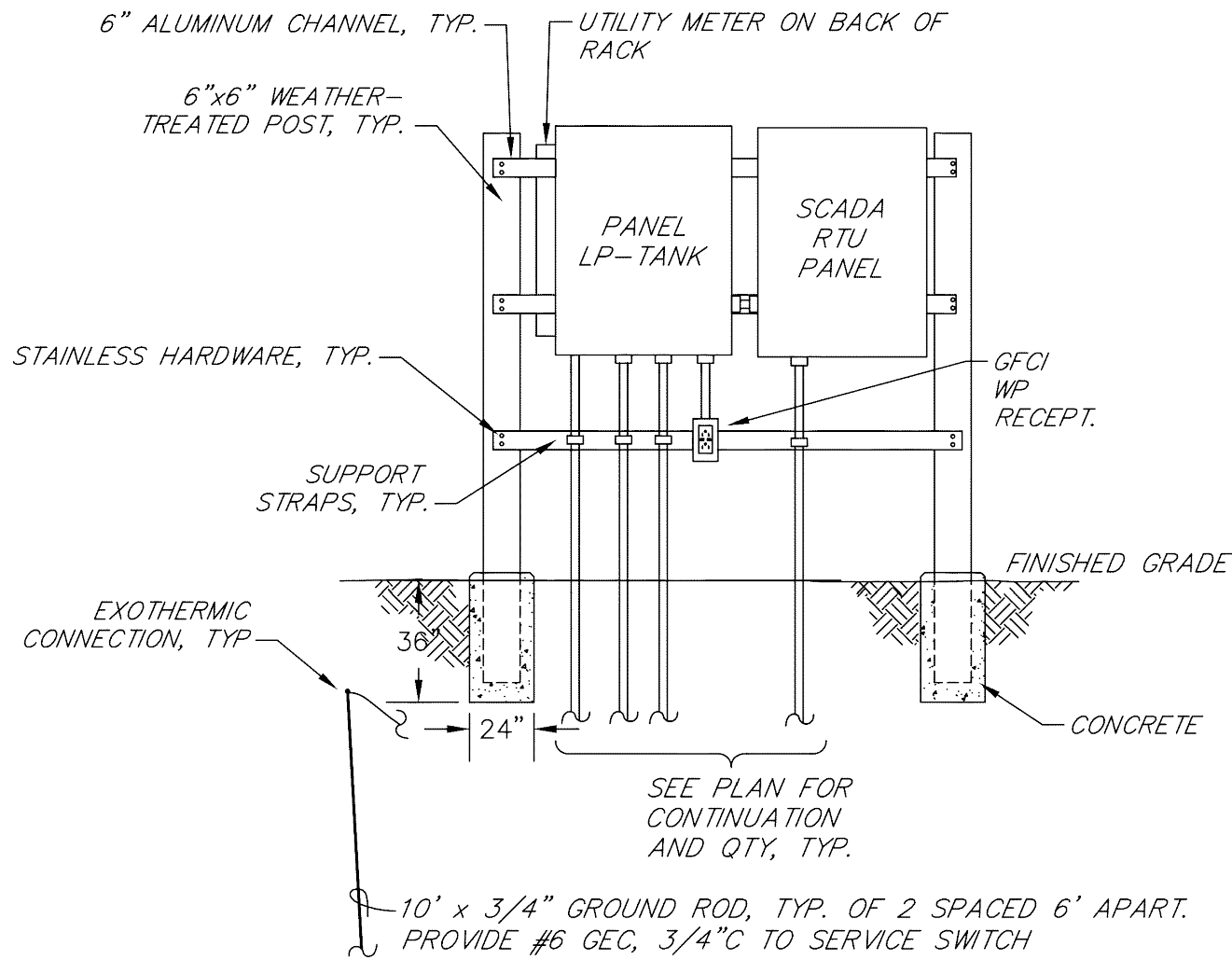


LADDER ACCESS CAGE
N.T.S.



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CHECKED BY: BRW	DATE: March 2025
SCALE: As Noted	REVISIONS

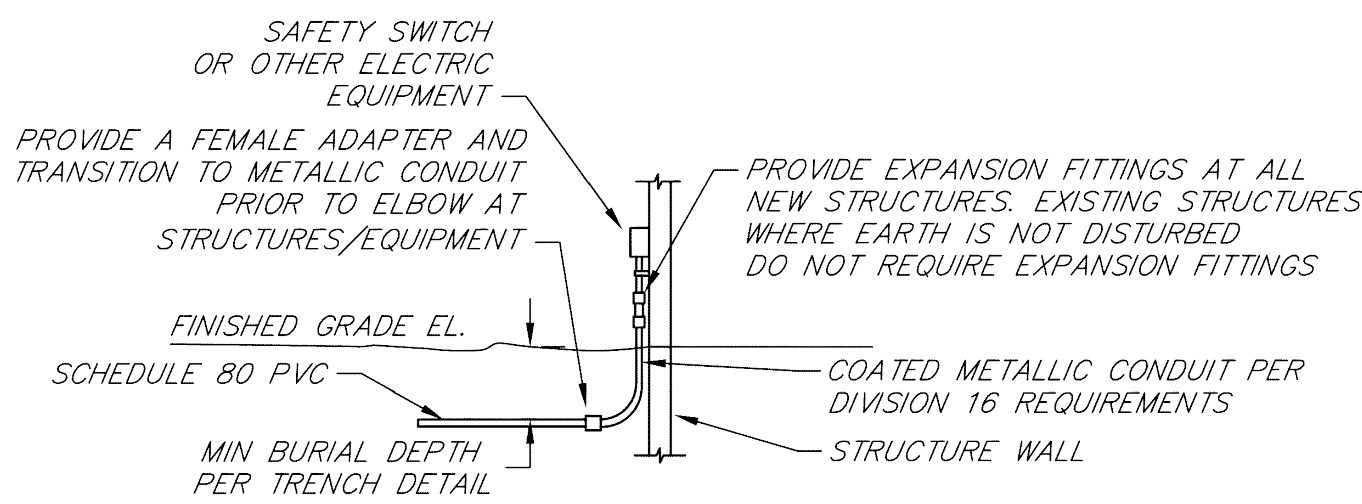
ELECTRICAL ABBREVIATIONS	
A	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT (RACEWAY)
⊗	AT
CB	CIRCUIT BREAKER
CP	CONTROL PANEL
Δ/Y	DELTA/WYE
DPST	DOUBLE POLE-SINGLE THROW
ELEC	ELECTRIC
EOL	END-OF-LINE
EMERG	EMERGENCY
EX	EXISTING
FA	FIRE ALARM
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI OR GFI	GROUND FAULT CURRENT INTERRUPTING
GND	GROUND
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
J OR JB	JUNCTION BOX
KOMIL	THOUSAND CIRCULAR MILS
LS	LIMIT SWITCH
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OT	OVER TEMPERATURE
PH OR Ø	PHASE
PNL	PANEL
PWR	POWER
RECEPT	RECEPTACLE
SHT	SHEET
SP	SINGLE POLE
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STIC	SHIELDED TWISTED INSTRUMENT CABLE
SW	SWITCH
TB	TERMINAL BOX



WATER TANK ELECTRICAL RACK DETAIL, TYP.

NOT TO SCALE

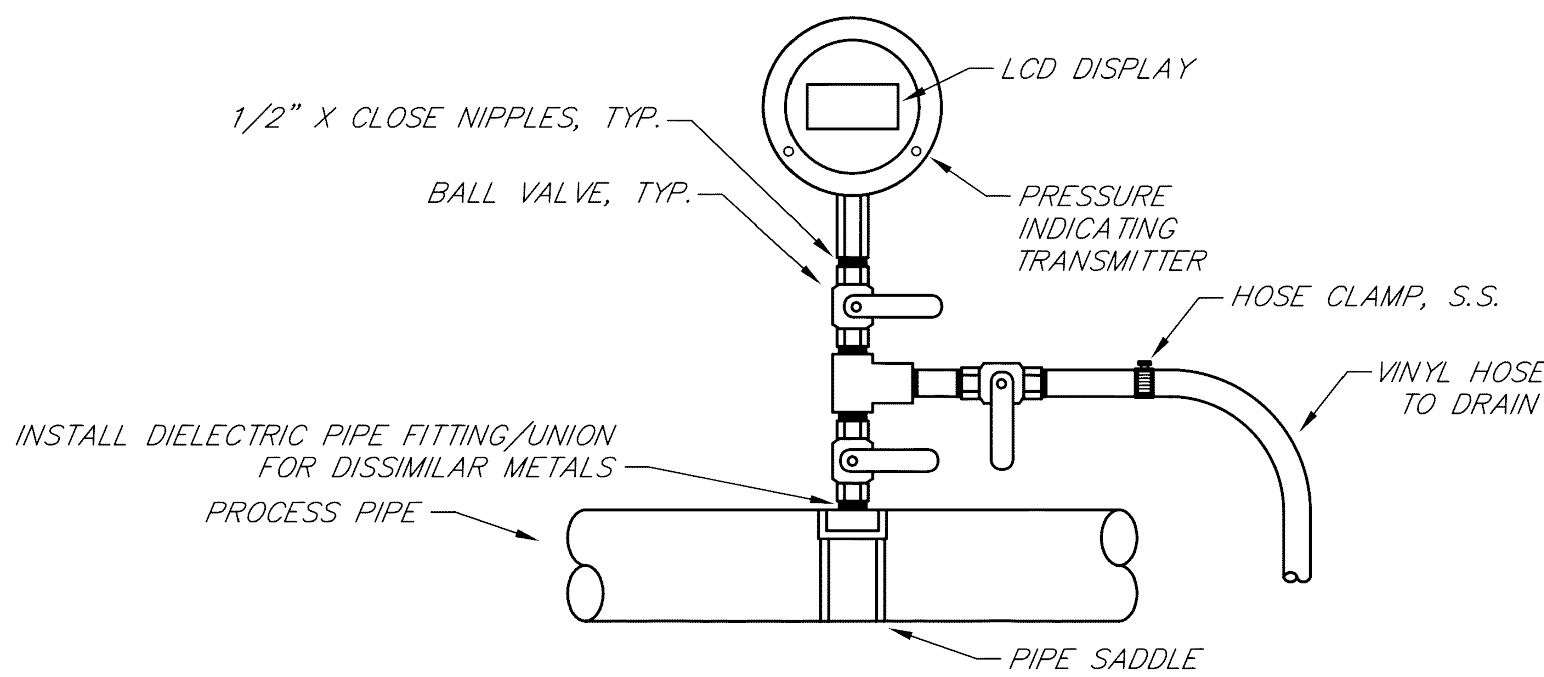
* OWNER WILL FURNISH SCADA RTU PANEL FOR CONTRACTOR INSTALLATION



NOTE:
ALL UNDERGROUND PVC CONDUITS SHALL TRANSITION TO METALLIC PRIOR TO EMERGING FROM GRADE OR SLAB.

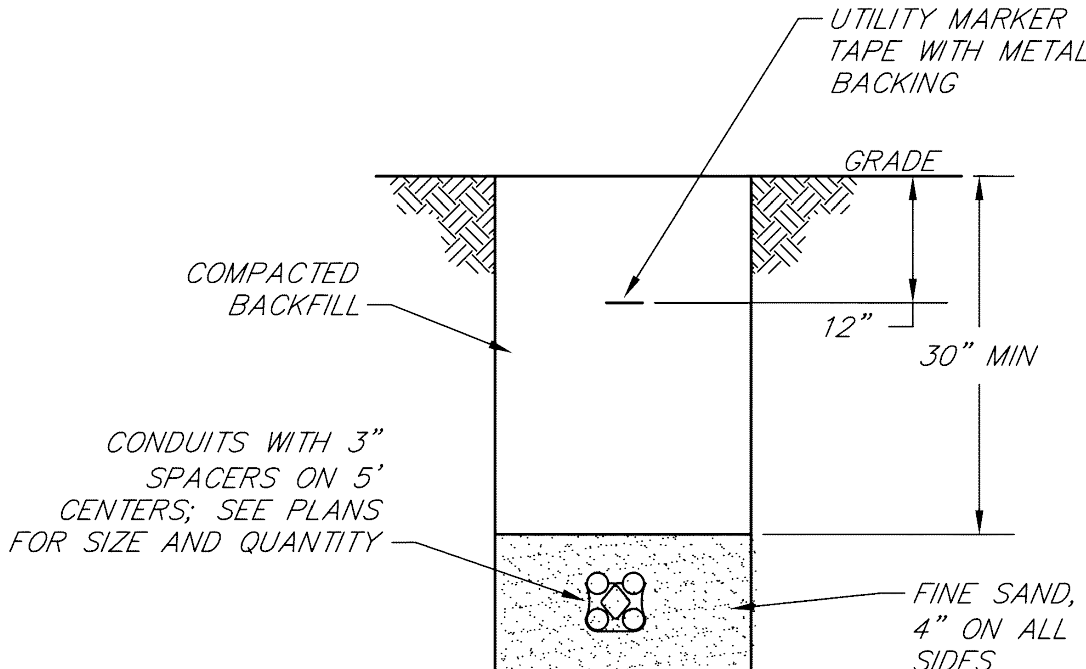
TYPICAL UNDERGROUND PVC CONDUIT TRANSITION TO METALLIC CONDUIT

NO SCALE



PRESSURE TRANSMITTER DETAIL

NOTE: OWNER WILL FURNISH PRESSURE TRANSMITTERS FOR INSTALLATION BY CONTRACTOR



TRENCH DETAIL, TYP.

NO SCALE

PANEL:	LP-TANK (TYP. FOR 2 PANELS)	VOLTAGE:	120/240V, 1Ø, 3W
ENCLOSURE:	NEMA 3R	MAINS AMPACITY:	100A
MOUNTING:	SURFACE	MAIN C.B. SIZE:	60A SERVICE-RATED
LOCATION:	KY 472	TOTAL SPACES:	18 (MIN)

CIRCUIT DESCRIPTION	VA	POLES	BREAKER	NO	PHASE A VA	PHASE B VA	NO	BREAKER	POLES	VA	CIRCUIT DESCRIPTION
SPD		2	30A	1	500		2	20A	1	500	RECEPTACLE
				3		500	4	20A	1		SCADA RTU
SPARE		1	20A	5	0		6	20A	1		SPARE
SPARE		1	20A	7		0	8	20A	1		SPARE
SPARE		1	15A	9	0		10	15A	1		SPARE
				11		0	12				
				13	0		14				
				15		0	16				
				17	0		18				
TOTAL VA PER PHASE:					500	500					
TOTAL AMPS PER PHASE:					4.2	4.2	TOTAL PANEL VA: 1000				

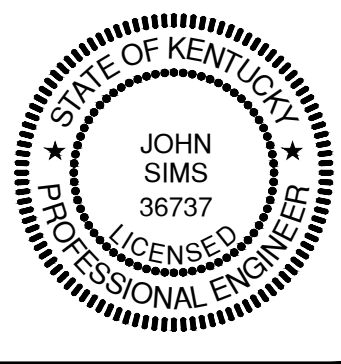
NOTES:
1. PROVIDE INTEGRAL SURGE SUPPRESSION WITH DISCONNECT

ELECTRICAL DEVICE MOUNTING HEIGHT SCHEDULE

DEVICE	HEIGHT AFF	REMARKS
RECEPTACLE - LOW	1'-4"	TO BOTTOM OF DEVICE BOX
RECEPTACLE - MEDIUM	4'-0"	TO TOP OF DEVICE BOX
LIGHT SWITCH	4'-0"	TO BOTTOM OF DEVICE BOX
CONTROL STATIONS & PUSH-BUTTONS	4'-0"	TO BOTTOM OF DEVICE BOX
PANELBOARDS & CONTROL PANELS	6'-6"	TO TOP OF BOX
SAFETY SWITCH	4'-0"	TO TOP OF BOX

ELECTRICAL PLAN SYMBOLS

	ELECTRICAL CIRCUIT: SHORT=PHASE CONDUCTOR; LONG = NEUTRAL, DASHED = EQUIPMENT GROUND
	DUPLEX RECEPTACLE: WP = WEATHERPROOF; GFI = GROUND FAULT; NUMBER = MOUNTING HEIGHT
	SINGLE RECEPTACLE
	208 or 240 VOLT RECEPTACLE
	MOTOR
	JUNCTION BOX - SMALL
	JUNCTION BOX - FLUSH-MOUNTED
	SAFETY SWITCH - NONFUSED UNLESS NOTED OTHERWISE
	EXISTING POWER POLE
	NEW POWER POLE
	LIGHTING POLE
	KEYNOTE
	ELECTRICAL LINE UNDERGROUND
	ELECTRICAL LINE OVERHEAD



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DATE: March 2025	SCALE: As Noted
REVISIONS	