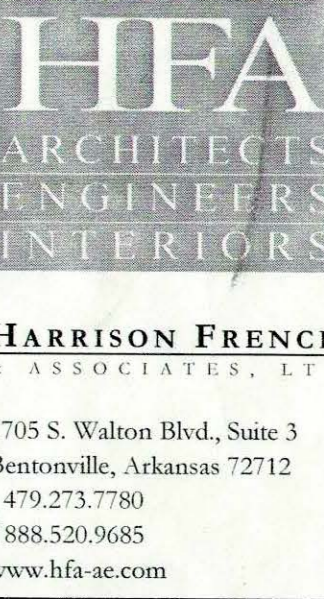


EQUIPMENT NOTES

- 1 3" AND 2" FUEL TANK VENTS TO EXTEND A MINIMUM OF 7'-0" ABOVE ROOF STRUCTURE. REFER TO DETAIL 4 ON SHEET FI-105.
2 POLE MOUNTED FUEL CONTROL PANEL IN WEATHERPROOF ENCLOSURE AT 4'-0" ABOVE FINISHED FLOOR. REFER TO ELECTRICAL DRAWINGS FOR ALL CONTROL BOXES, ELECTRICAL PANELS AND DISCONNECTS.
3 3/4" COLD WATER UP TO STANDPIPE TYPE FROST-PROOF HOSE BIBB (HB-3) AT 1'-6" ABOVE FINISHED CURB ISLAND.
4 VALVE AND CAP 1" AIR LINE AT 12" ABOVE FINISHED CURB ISLAND FOR FUTURE EXTENSION.
5 ALL WALL AND ROOF PENETRATIONS SHALL BE MADE AND SEALED BY THE FACILITY METAL SIDING CONTRACTOR. GC TO COORDINATE SIZE AND LOCATIONS.
6 (NOT USED)
7 MASTER DIESEL DISPENSER (MD) WITH FITTINGS TO SUPPLY A DIESEL SATELLITE DISPENSER (SD) AND A DIESEL REEFER DISPENSER (RD). DISPENSERS ARE TO FACE THE LANE THEY SUPPLY. REFER TO DETAILS 1 & 5 ON SHEET FI-104.
8 SATELLITE DISPENSERS (SD) TO FACE THE LANE THEY SUPPLY. REFER TO DETAILS 2 & 6 ON SHEET FI-104.
9 "REEFER" DIESEL DISPENSER (RD) TO FACE THE LANE THEY SUPPLY. REFER TO DETAILS 3 & 7 ON SHEET FI-104.
10 DIESEL EXHAUST FLUID (DEF) DISPENSERS (SD) TO FACE THE LANE THEY SUPPLY. REFER TO DETAILS 4 & 8 ON SHEET FI-104.
11 FUEL ISLAND CATCH BASIN. REFER TO DETAIL 1 ON SHEET FI-107.
12 FLAMMABLE LIQUIDS SEPARATOR - ROCKFORD MODEL OST-5648 WITH 300 GALLON WASTE OIL STORAGE, REMOVABLE FILTER SCREENS AND SEDIMENT BASKET. PROVIDE HEAVY-DUTY TRAFFIC RATED COVERS.
13 CAP UNUSED VENT OPENINGS.

GENERAL NOTES

- 1 EQUIPMENT SCHEDULE SHEET FI-106.
2 GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ITEMS UNLESS OTHERWISE SPECIFIED OR NOTED.
3 GENERAL CONTRACTOR MUST BE CERTIFIED TO INSTALL ALL SPECIFIED PETROLEUM EQUIPMENT PROVIDED ON THE DRAWINGS OR HAVE MANUFACTURER'S REPRESENTATIVE ON SITE TO CERTIFY INSTALLATION. WRITTEN VERIFICATION WILL BE REQUIRED IN ORDER TO RECEIVE FINAL PAYMENT.
4 SUPPLY AND INSTALL SUMPTITE SEALANT ON ALL TANK AND DISPENSER SUMP/IF WATER TABLE COVERS OR MORE OF THE UNDERGROUND STORAGE TANKS. ALL SEAMS, SUPPLY LINES, AND CONDUIT PENETRATIONS ARE TO BE COATED. ALL APPLICATORS MUST BE TRAINED AND CERTIFIED BY THE SUPPLIER. (CONTACT ROGER MCKELVEY "SUMPTITE PRODUCTS" 1-800-600-1081).
5 STAGE I OR STAGE II VAPOR RECOVERY NOT REQUIRED FOR THIS PROJECT.
6 PURGE WITH A MINIMUM OF 250 GALLONS OF FUEL THROUGH EACH FUELING POINT. AFTER PURGING, REPLACE FACTORY FILTERS WITH PETROCLEAR MODEL 4053W (HYDROSORB) FILTERS. PROPERLY DISPOSE OF ALL FACTORY FILTERS AFTER CHANGING OUT.
7 THE FUEL DELIVERY OPERATOR WILL BE NOTIFIED WHEN THE TANKS REACH 90% CAPACITY BY RESTRICTING FLOW OF FUEL DELIVERY. FUEL DELIVERY WILL BE TERMINATED WHEN TANK CAPACITY REACHES 93%. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SETTING OVERFILL DEVICE TO PROPER DEPTH FOR OPERATION AT SPECIFIED TANK CAPACITIES.
8 CONFIRM THAT THERE IS NO WATER IN THE TANKS PRIOR TO FUEL DELIVERY. OWNER WILL REQUIRE A SIGNED COPY OF THE FUEL DELIVERY TICKET, WHICH MUST INDICATE THAT THERE WAS NO WATER IN THE UNDERGROUND STORAGE TANKS AND CONTAIN THE SIGNATURE OF THE DELIVERY PERSON AND THE CONTRACTOR'S REPRESENTATIVE.
9 COORDINATE PRODUCT PIPING, VENT PIPING, AND CONDUITS SO AS NOT TO INTERFERE WITH FUEL ISLAND BUILDING PIPE BOLLARD PLACEMENT.
10 ALL FIBERGLASS MANIFOLDED DIESEL VENT PIPING SHALL BE 3" DIAMETER, ALL OTHER VENT LINES TO BE 2" FIBERGLASS.
11 TANKS, TANK STRAPS, TURNBUCKLES, DEADMEN AND STEEL ANCHORS TO BE SUPPLIED BY CONTRACTOR FROM THE TANK MANUFACTURER. INSTALL PER THE TANK MANUFACTURER'S SPECIFICATIONS.
12 ALL METAL ON THE TANK ANCHORING SYSTEM MUST BE GALVANIZED TO PROTECT AGAINST CORROSION.
13 APPLY ANTI-SEIZE COMPOUND TO ALL BOLTED MANHOLE COVERS.
14 UNIONS SHALL BE INSTALLED AT ALL PRODUCT PIPING CONNECTIONS AS REQUIRED TO ALLOW FOR REMOVAL OF EQUIPMENT THROUGH THE MANWAY COVERS.
15 FLEXIBLE CONNECTORS WILL BE ACCEPTED AT THE VENT LINE CONNECTION AT THE RISERS OF THE VENT PIPES. ALL FLEXIBLE CONNECTORS USED THAT WILL BE IN DIRECT CONTACT WITH FILL MATERIAL WILL BE REQUIRED TO HAVE TWO LAYERS OF PRIME AND WRAP MATERIAL. REFERENCE EQUIPMENT SCHEDULE FI-106.
16 ALL SUBMERSIBLE PUMP CONNECTIONS TO PRODUCT PIPING SHALL HAVE ONE UNION AND BALL VALVE LOCATED IN THE PUMP ENCLOSURE MANWAY.
17 FLEXIBLE CONNECTORS FOR THE ELECTRICAL CONNECTIONS FROM EXPLOSION PROOF JUNCTION BOX TO SUBMERGED PUMP WILL NOT BE ACCEPTED. ALL CONNECTIONS MUST BE WITH RIGID CONDUIT.
18 FOR ELECTRICAL CONDUIT SIZE AND ROUTING, REFERENCE THE ELECTRICAL DRAWINGS.
19 ALL PRIMARY AND SECONDARY PIPING SHALL BE AIR TESTED PER MANUFACTURER'S REQUIREMENTS. REMOVE THE TEST TUBE AND LEAVE IN SUMP AFTER COMPLETING TEST.
20 ALL DISPENSER KEYS SHALL BE GIVEN TO THE OWNER ALONG WITH TWO COMPLETE KEY RINGS CONTAINING DISPENSER KEYS.

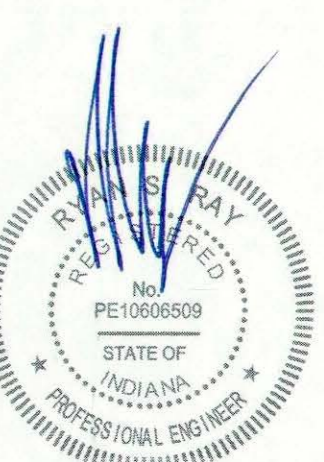


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Table with columns for ISSUE BLOCK, DATE, and DESCRIPTION. Includes entries for 03-15-17 and 05-05-17.

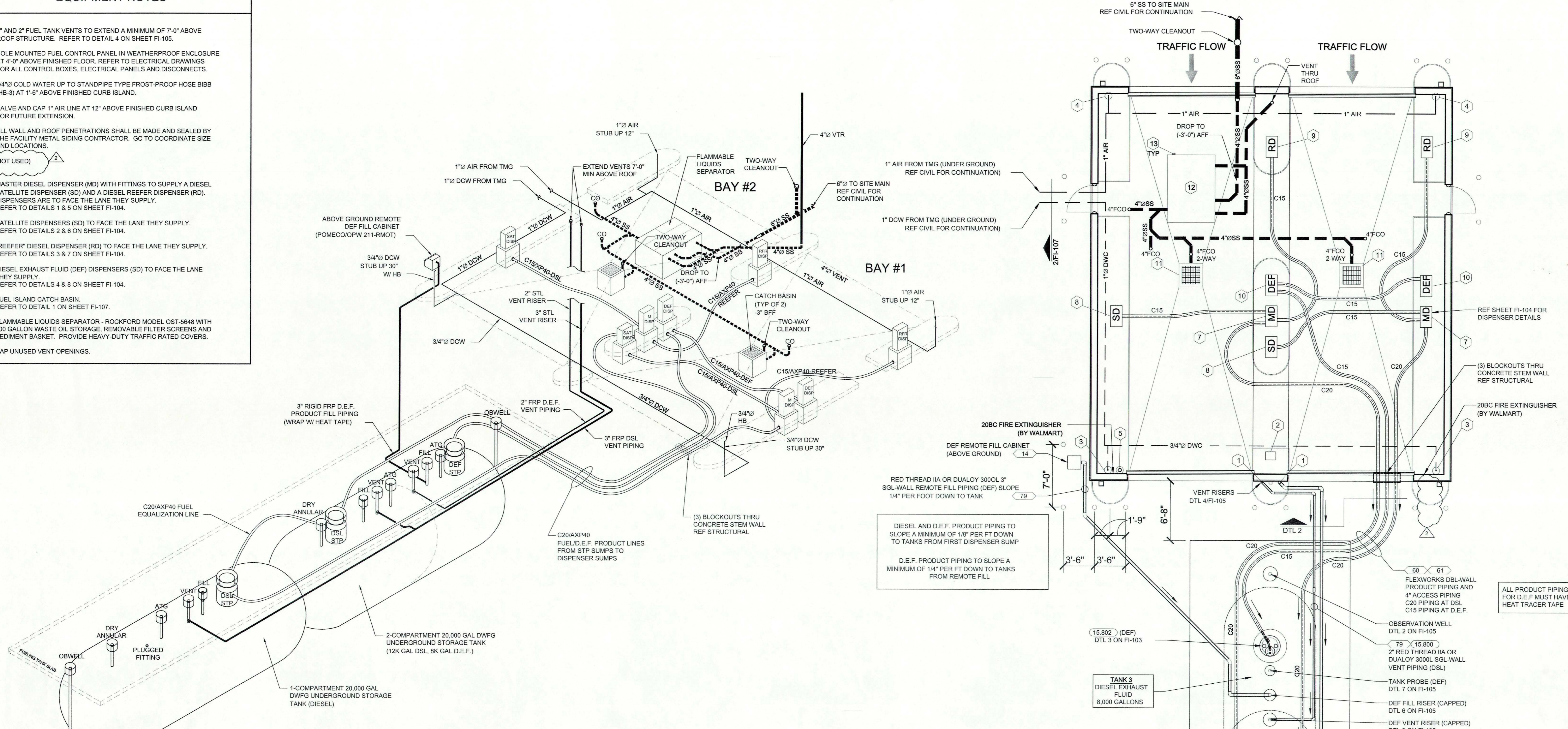
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FUEL ISLAND PIPING PLAN AND DETAILS

SHEET: FI-101

FLEET FUELING BUILDING AIR/WATER/FUEL RISER DIAGRAM



DIESEL AND D.E.F. PRODUCT PIPING TO SLOPE A MINIMUM OF 1/8" PER FT DOWN TO TANKS FROM FIRST DISPENSER SUMP
D.E.F. PRODUCT PIPING TO SLOPE A MINIMUM OF 1/4" PER FT DOWN TO TANKS FROM REMOTE FILL

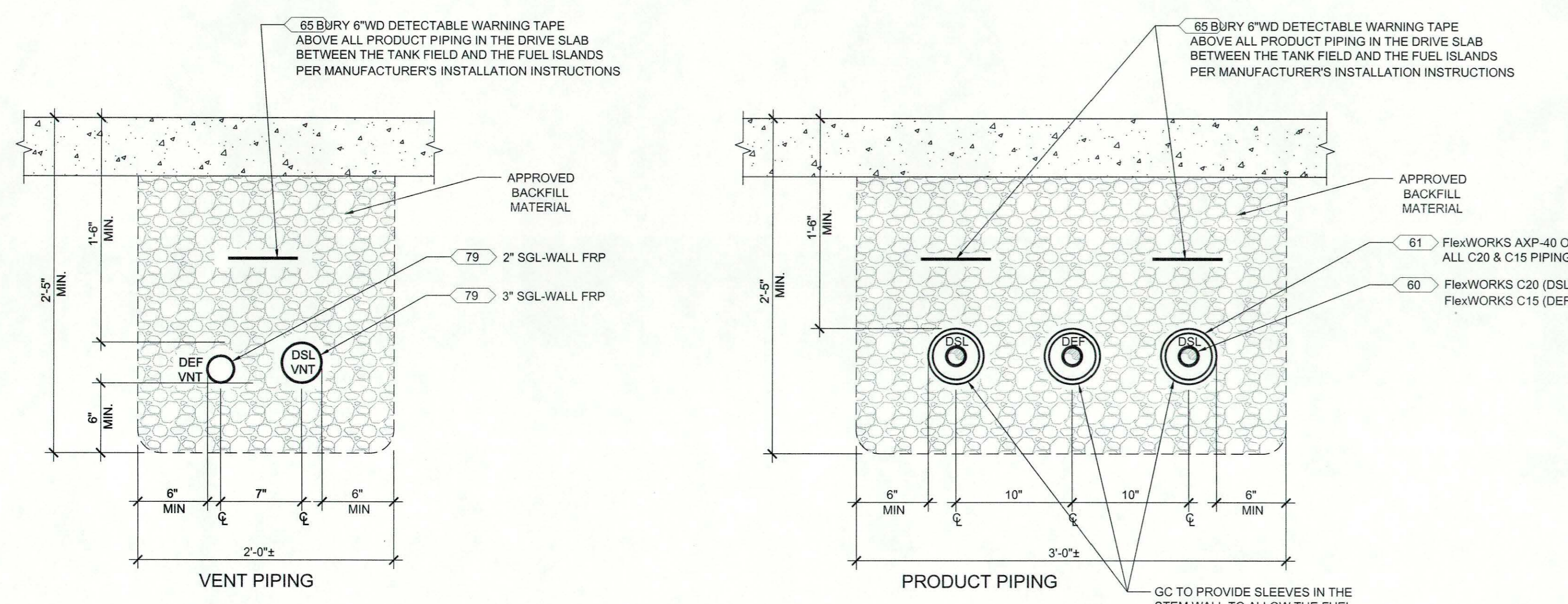
ALL PRODUCT PIPING FOR D.E.F. MUST HAVE HEAT TRACER TAPE

VERIFY DURING PIPING INSPECTION THAT ALL TOPS OF MANHOLES ARE SET AT CORRECT GRADE ELEVATION (1" ABOVE NORMAL GRADE). TOP OF MONITOR WELL MANHOLES TO BE SET AT 1/2" ABOVE NORMAL GRADE.

DETERMINE EXACT BURIAL DEPTH OF TANKS AS REQUIRED TO MAINTAIN 1/8" PER FT SLOPE OF PIPING FROM DISPENSERS DOWN TO TANKS AND FROM VENT TERMINAL DOWN TO TANKS. TANK BURIAL GREATER THAN 5'-0" REQUIRES APPROVAL FROM OWNER'S CONSTRUCTION MANAGER. MINIMUM BURIAL DEPTH SHALL BE 3'-7". COORDINATE WITH VENDOR FOR SUMP EXTENSION RINGS AS REQUIRED.

PIPING TRENCHES SHALL BE DUG IN SUCH A MANNER THAT THE TRENCH WIDTH IS EQUAL TO AT LEAST TWICE THE WIDTH OF ALL THE FLEXIBLE PIPING CONTAINED WITHIN. MAINTAIN A MINIMUM CF 4" (10cm) CLEAR DISTANCE BETWEEN FLEXIBLE PIPING POSITIONED IN THE TRENCH AND 2 1/2" WHERE PIPING CROSSES OVER EACH OTHER. THE BOTTOM OF THE TRENCH SHALL BE AS UNIFORM AS POSSIBLE TO ELIMINATE HIGH SPOTS AND ENSURING AN EVEN LAYER OF BEDDING MATERIAL UNDER THE PIPE. REMOVE ALL SHARP ROCKS AND DEBRIS FROM THE TRENCH BOTTOM BEFORE BEDDING MATERIAL IS INSTALLED. IF PIPING TRENCH IS IN UNPAVED AREA, A MINIMUM OF 2" OF APPROVED BACKFILL IS REQUIRED

FUEL ISLAND PIPING TRENCH BACKFILL

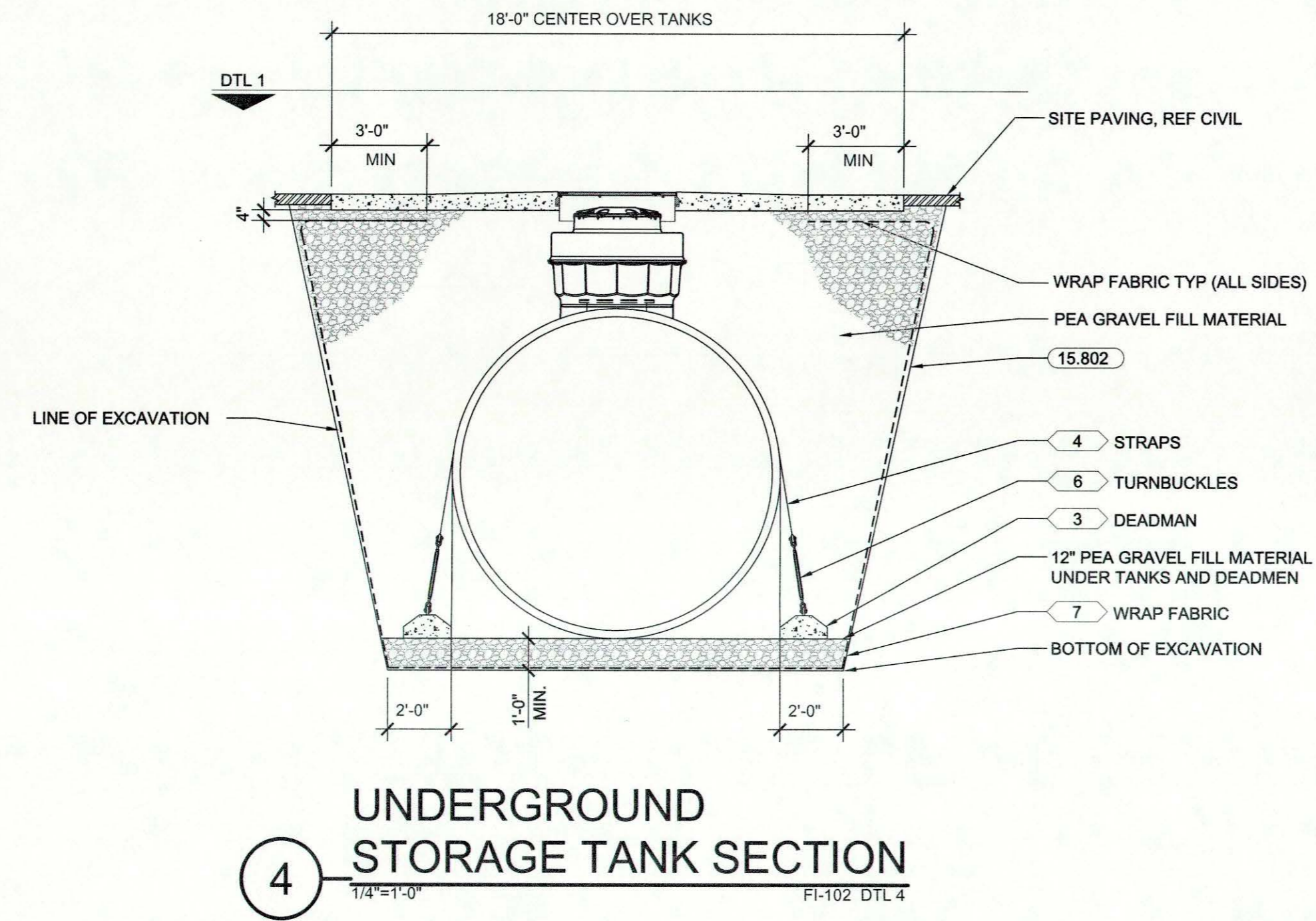


May 03, 2017 - 2:18pm - USER jm
1:50:05-16:50:01 WM Baja Project - Fort Wayne, IN\discipline\FuelPiping\Sheet\FI-101 - FI-101 FUEL ISLAND PIPING PLAN AND DETAILS - 7596.dwg

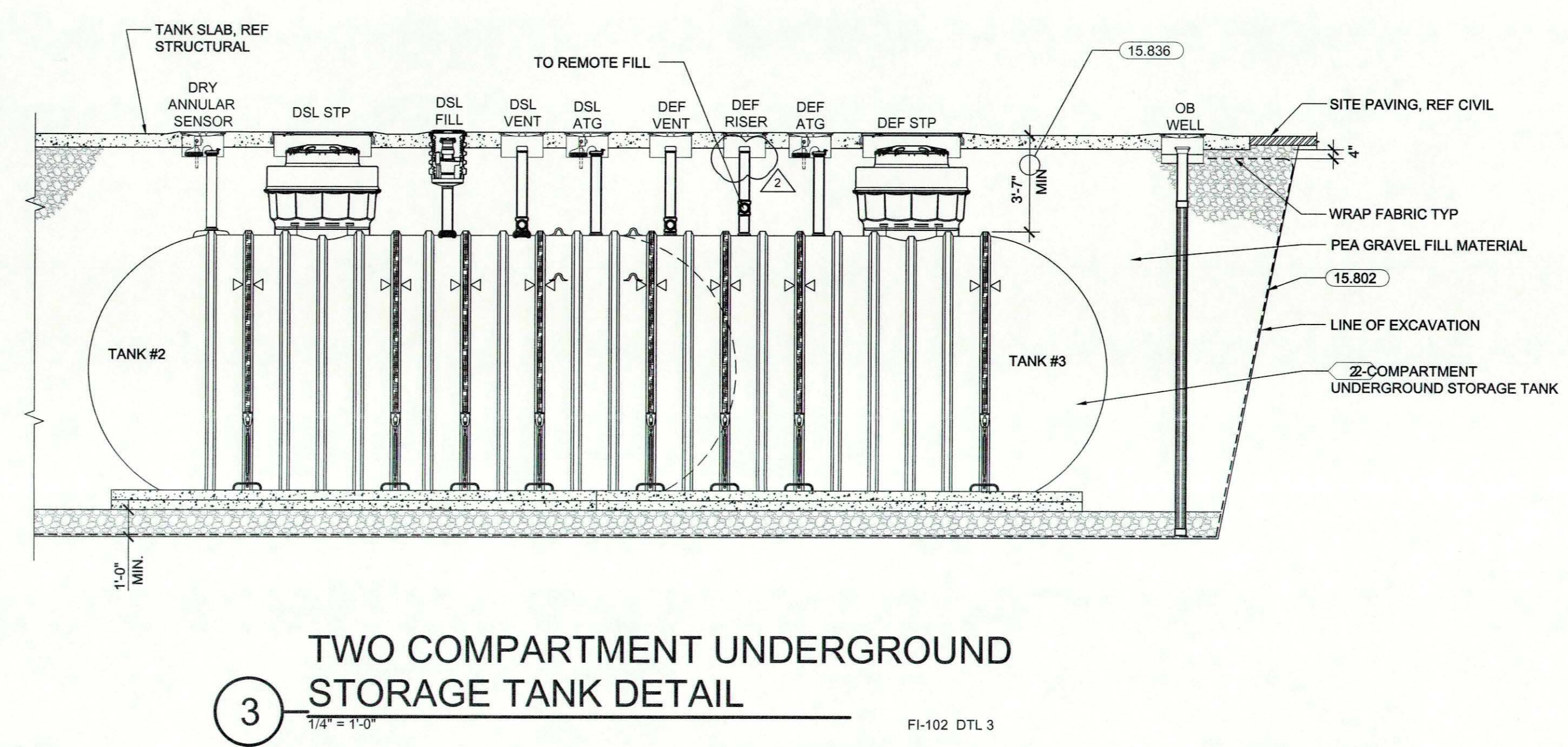
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KEYNOTES

- 15.802 PROVIDE GEOTEXTILE FABRIC LINER AT LINE OF EXCAVATION. GEOTEXTILE FABRIC TO BE NON-WOVEN FABRIC WITH MINIMUM OF 160-LB TENSILE STRENGTH (GTS). WRAP FABRIC AT TOP OF EXCAVATION - EXTEND TO POINT BENEATH TANK SLAB. OVER EXCAVATION MAY BE REQUIRED DUE TO SOIL CONDITIONS OR LOCAL REQUIREMENTS. VERIFY DISTANCE PER TANK MANUFACTURER'S INSTALLATION SPECIFICATIONS.
- 15.836 DETERMINE EXACT BURIAL DEPTH OF TANKS AS REQUIRED TO MAINTAIN 1/8" PER FOOT SLOPE OF PIPING FROM DISPENSERS NEAREST TO TANKS AND FROM VENT TERMINAL TO TANKS. DEPTH SHOWN IS MINIMUM.



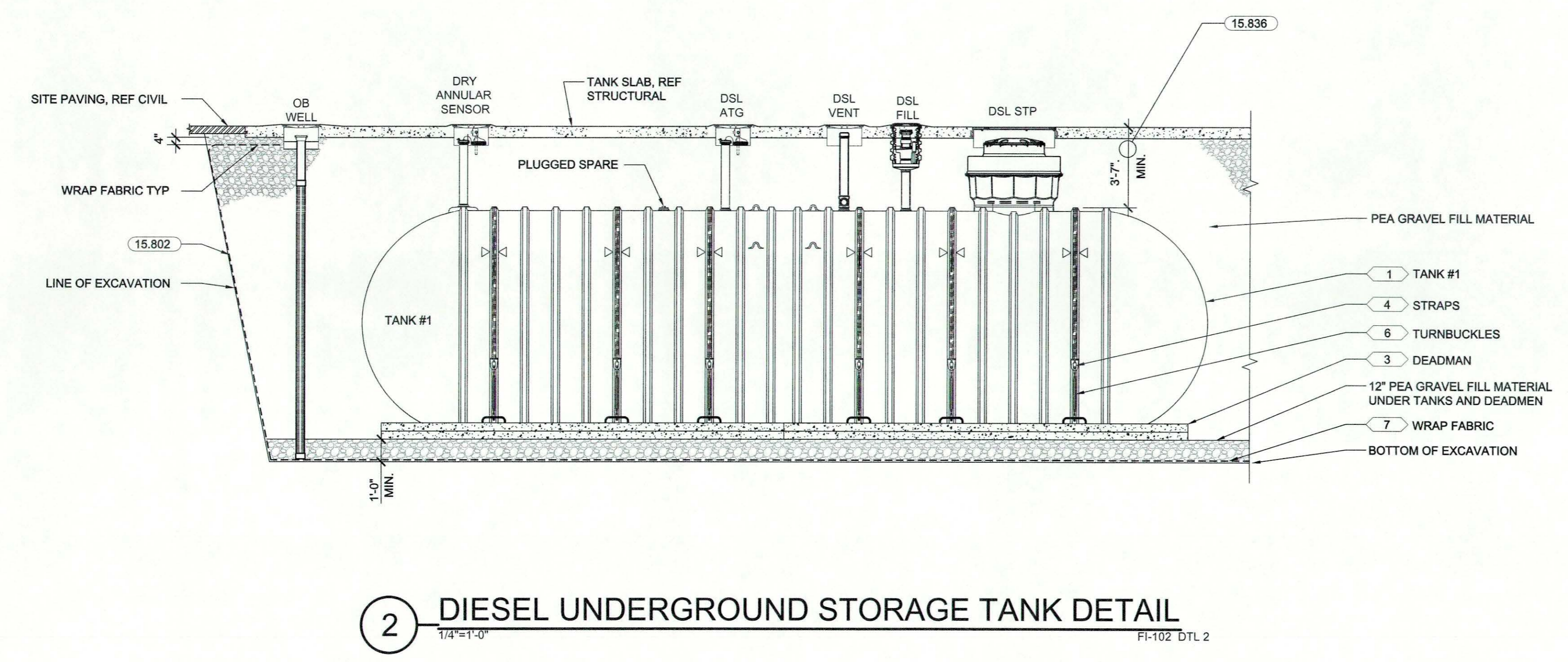
4 UNDERGROUND STORAGE TANK SECTION
1/4" = 1'-0" FI-102 DTL 4



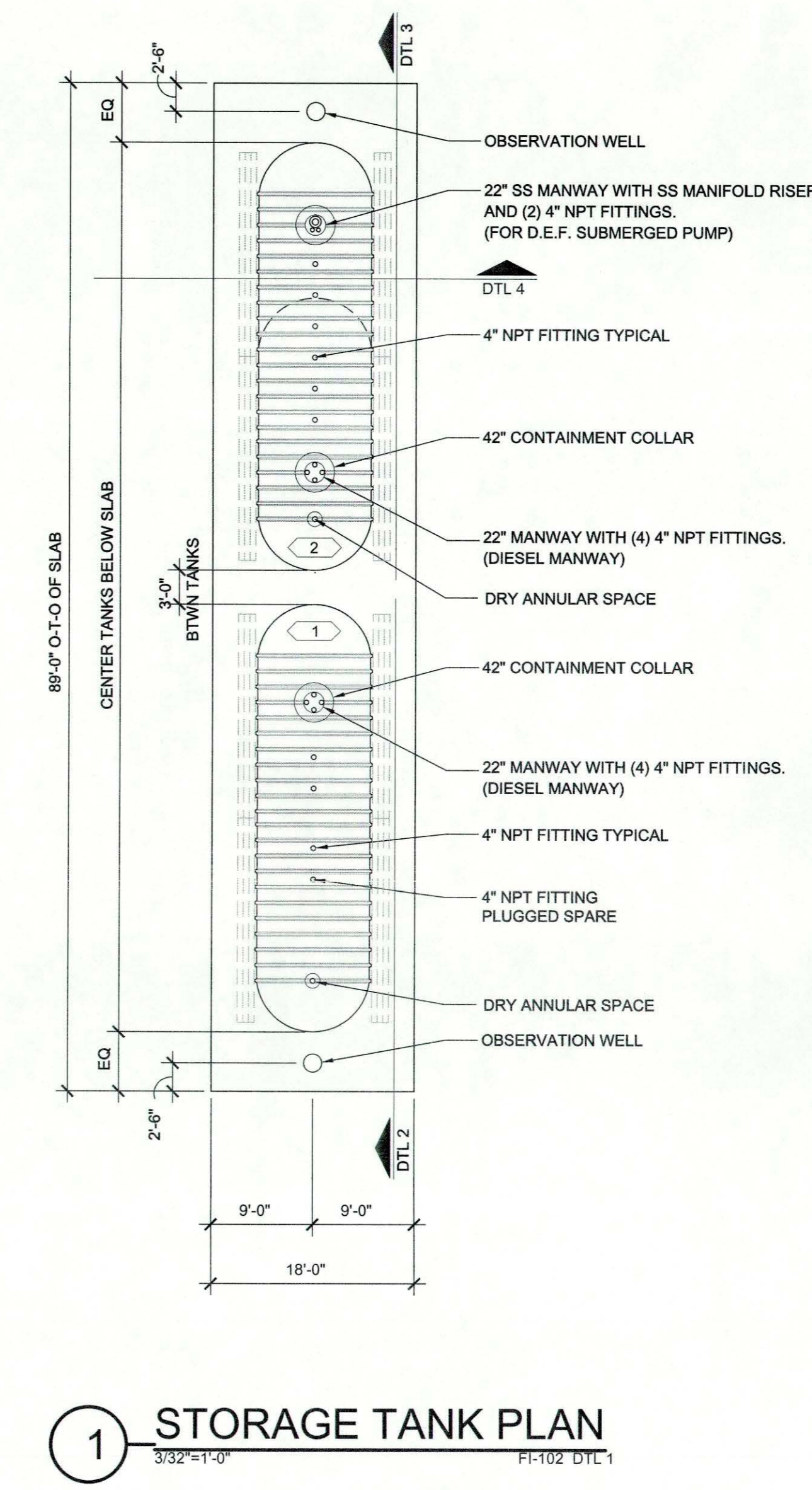
3 TWO COMPARTMENT UNDERGROUND STORAGE TANK DETAIL
1/4" = 1'-0" FI-102 DTL 3

VERIFY DURING PIPING INSPECTION THAT ALL TOPS OF MANHOLES ARE SET AT CORRECT GRADE ELEVATION (1" ABOVE NORMAL GRADE). TOP OF MONITOR WELL MANHOLES TO BE SET AT 1/2" ABOVE NORMAL GRADE.

DETERMINE EXACT BURIAL DEPTH OF TANKS AS REQUIRED TO MAINTAIN 1/8" PER FT SLOPE OF PIPING FROM DISPENSERS DOWN TO TANKS AND FROM VENT TERMINAL DOWN TO TANKS. TANK BURIAL GREATER THAN 5'-0" REQUIRES APPROVAL FROM OWNER'S CONSTRUCTION MANAGER. MINIMUM BURIAL DEPTH SHALL BE 3'-7". COORDINATE WITH VENDOR FOR SUMP EXTENSION RINGS AS REQUIRED.



2 DIESEL UNDERGROUND STORAGE TANK DETAIL
1/4" = 1'-0" FI-102 DTL 2



1 STORAGE TANK PLAN
3/32" = 1'-0" FI-102 DTL 1

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FUEL ISLAND TANK DETAILS

SHEET: FI-102

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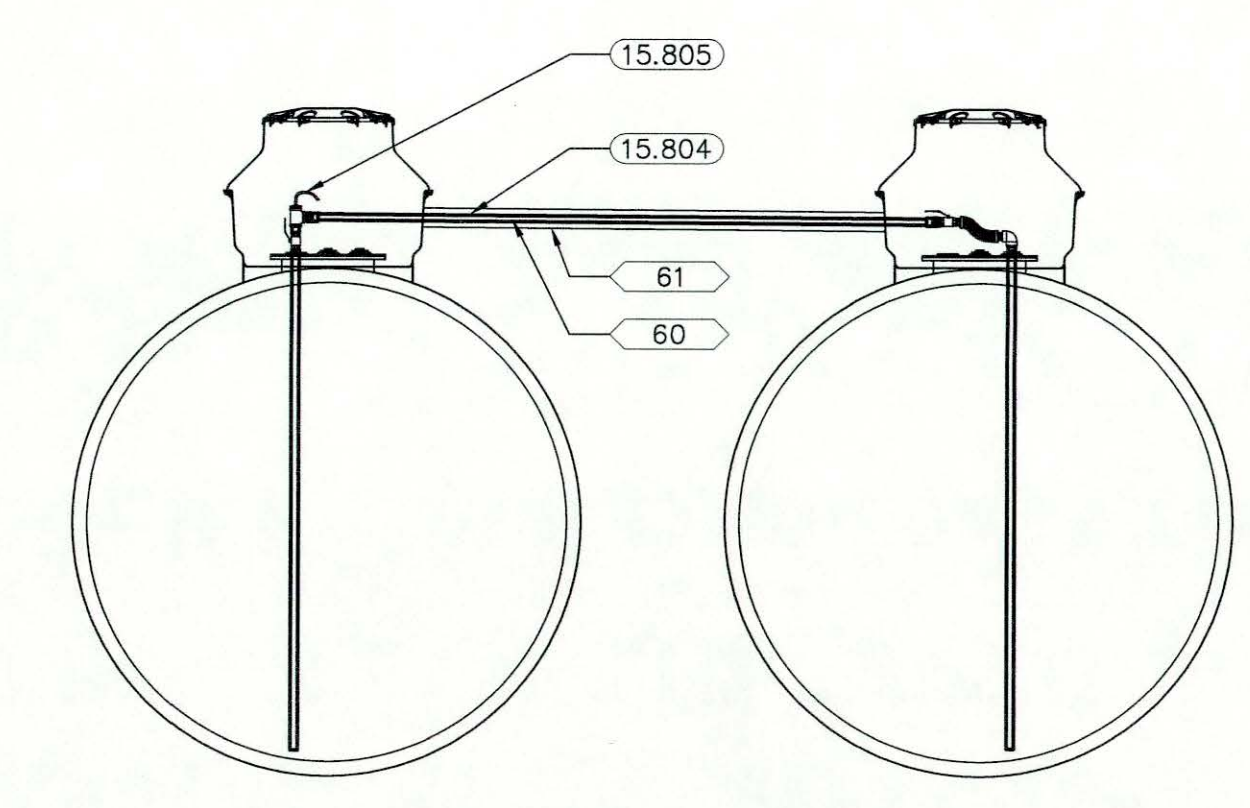
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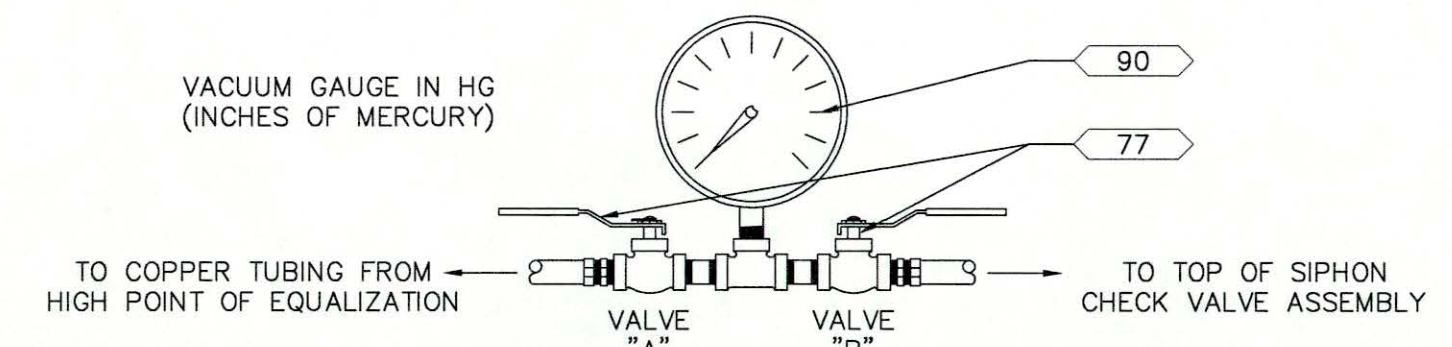
FUEL ISLAND TANK SUMP DETAILS

KEYNOTES

- 15.804 2" FLEXIBLE DOUBLE WALL EQUALIZATION PIPING SLOPE MINIMUM 1/8" PER FOOT DOWN FROM TANK TO TANK. REFER TO EQUALIZATION PIPING SECTION.
- 15.805 1/4" SOFT TUBING FROM SIPHON CHECK VALVE TO EQUALIZATION TEST VALVES AND GAUGE TO EQUALIZATION PIPING TEE. REFER TO EQUALIZATION PIPING SECTION AND SYSTEM TEST DETAIL.
- 15.806 SUMP SENSOR TO REST ON THE LOWEST POINT OF SUMP ENCLOSURE. SECURE SENSOR USING MFR'S UNIVERSAL MOUNTING KIT. COIL EXCESS SENSOR WIRE IN SUMP.
- 15.807 2"x2"x2" SCH 40 BLACK IRON TEE LOCATED AT THE EQUALIZATION DROP TUBE FOR TANK LEVEL EQUALIZATION
- 15.845 SET RIM OF MANHOLE 1" ABOVE SURROUNDING GRADE. SLOPE CONCRETE AWAY FROM MANHOLE AT MAXIMUM 1/4" PER FOOT.

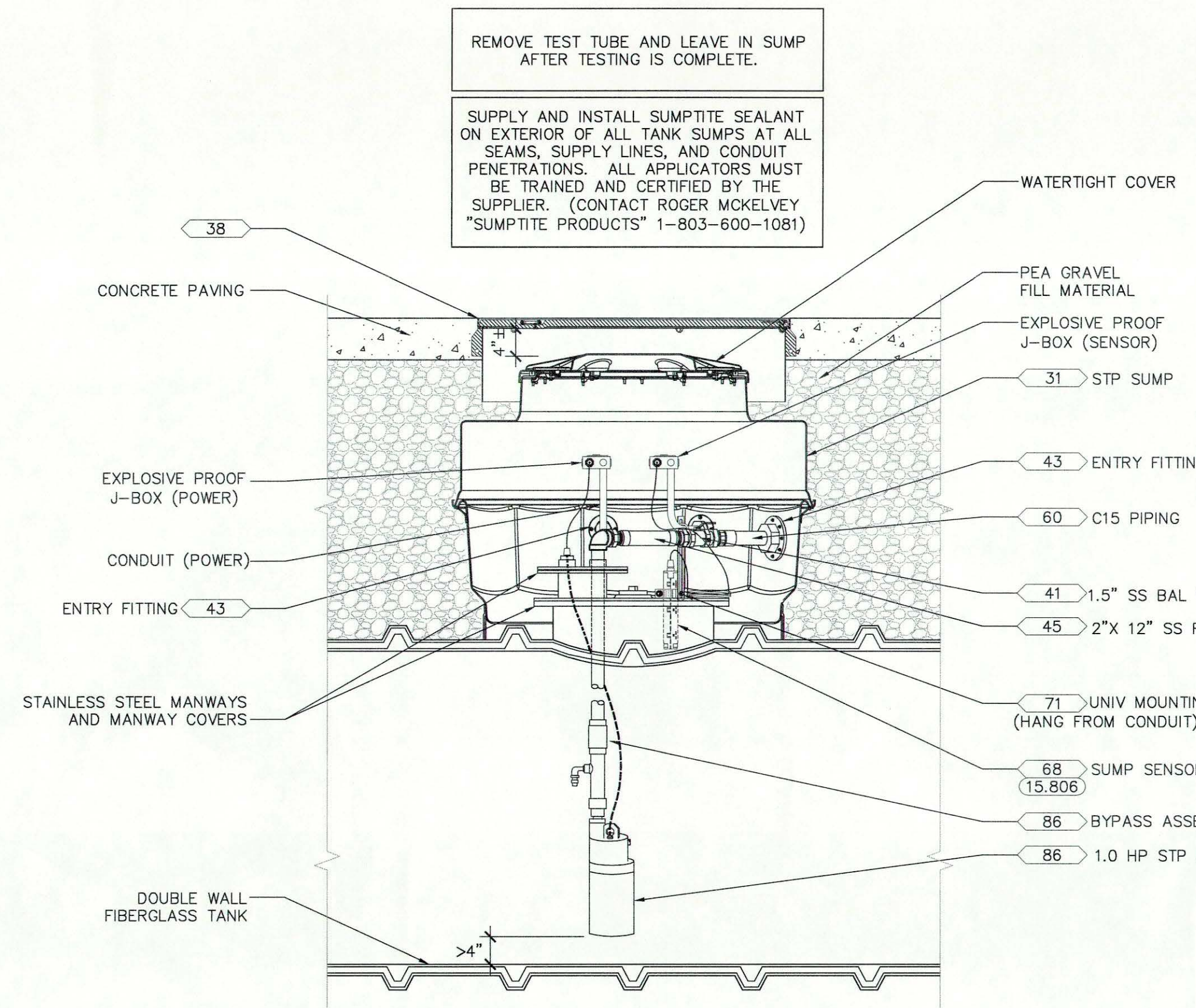


7 EQUALIZATION LINE AT DIESEL TANKS
FI-103 DTL 7

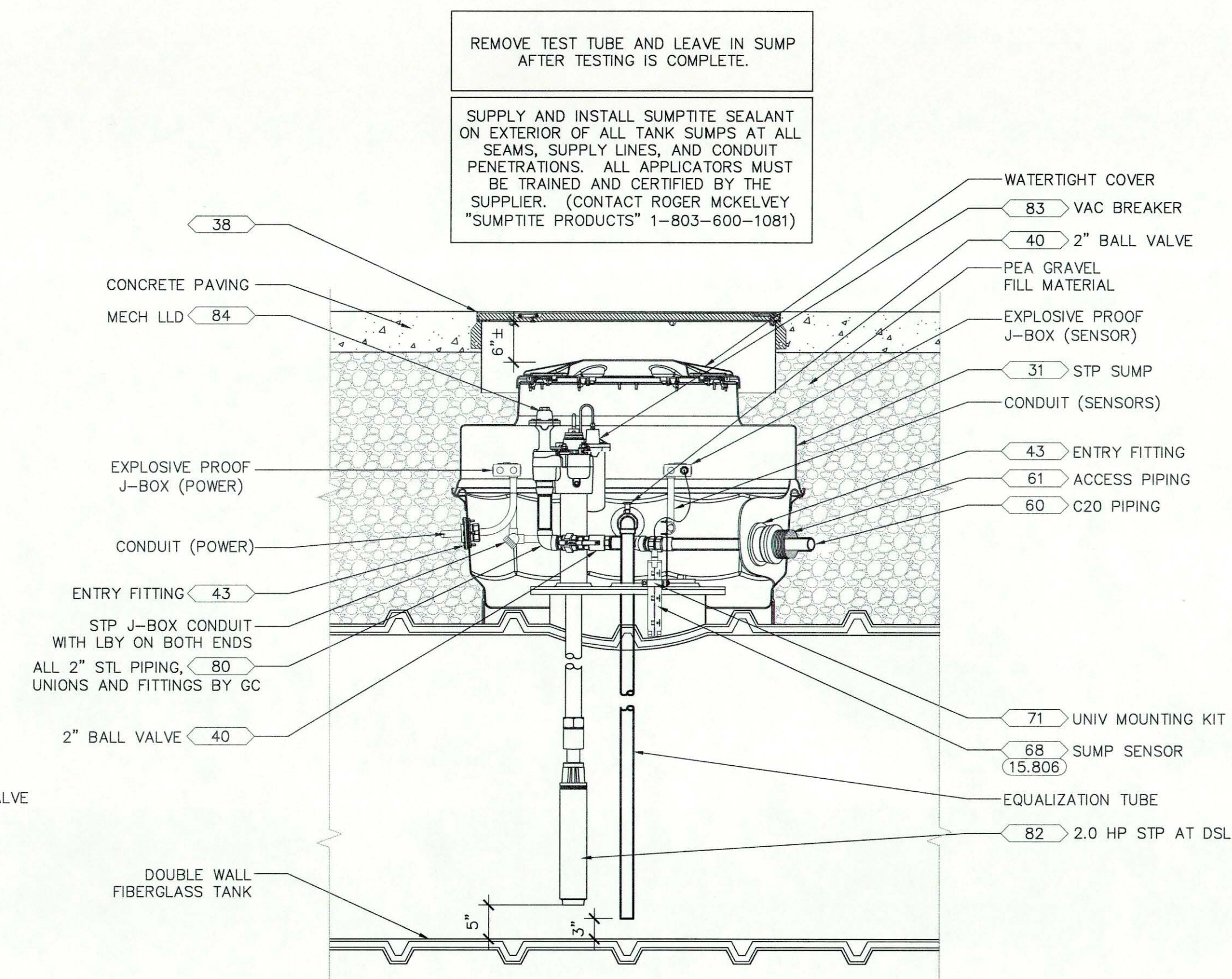


1. INSTALL TEST FIXTURE IN EQUALIZATION LINE AS SHOWN ABOVE. MULTI-PRODUCT DISPENSER.
2. RUN THE SUBMERSIBLES WITH DISPENSER NOZZLES CLOSED AND VALVE "A" CLOSED, VALVE "B" OPEN. THE NORMAL VACUUM READING SHOULD BE 15-28". NOTE: HIGHER RVP FUELS AND/OR HIGHER FUEL TEMPERATURES CAN RESULT IN LOWER VACUUM READINGS. IF THE VACUUM IS SOMEWHAT LESS THAN 15" THERE IS THE POSSIBILITY OF BLOCKAGE IN THE SIPHON PASSAGES (PLUGGED SIPHON NOZZLE AND/OR VENTURI, PLUGGED SIPHON PORT, PLUGGED/PINCHED RETURN TUBE). TO REMEDY, CLEAN THE PASSAGES AND REPLACE IF NECESSARY. IF THE PASSAGES ARE CLEAN AND THE VACUUM READING IS ZERO OR VERY LOW, A LEAK MAY BE PRESENT IN THE FLOW PATH TO THE SIPHON JET OR IN THE DISCHARGE TUBE. PULL THE EXTRACTABLE PORTION AND REPAIR AS NECESSARY.
3. RUN THE SUBMERSIBLES WITH DISPENSER NOZZLES CLOSED AND VALVE "A" CLOSED, VALVE "B" OPEN. WHEN THE VACUUM READING REACHES 15-28", SHUT THE PUMP OFF AND WAIT TWO MINUTES. IF THE READING DROPS TO ZERO, THE SIPHON CHECK VALVE IS NOT HOLDING. REMOVE AND CLEAN OR REPLACE. NOTE: SIPHON CHECK VALVES MAY HOLD AT HIGH VACUUMS, BUT LEAK UNDER LOW VACUUMS. TEST THE SIPHON CHECK VALVE AT A LOWER VACUUM BY BLEEDING THE VACUUM TO ABOUT 5" Hg AND REPEAT THE TEST.
4. RUN THE SUBMERSIBLES WITH BOTH VALVES "A" AND "B" OPEN AND THE DISPENSER NOZZLES CLOSED FOR APPROXIMATELY 5-10 MINUTES. CLOSE VALVE "B" AND THEN SHUT OFF PUMP. IF VACUUM DROPS, THERE IS A LEAK IN THE EQUALIZATION LINE BETWEEN THE TANKS ABOVE THE LEVEL OF THE PRODUCT. REPAIR LEAKS AND REPEAT STEP 4.
5. WRITTEN VERIFICATION OF THE TESTING FOR EQUALIZATION SHALL BE SIGNED BY THE GENERAL CONTRACTOR AND TANK INSTALLER. VERIFICATION SHALL BE PROVIDED TO OWNER AS PART OF THE CLOSE OUT DOCUMENTS.

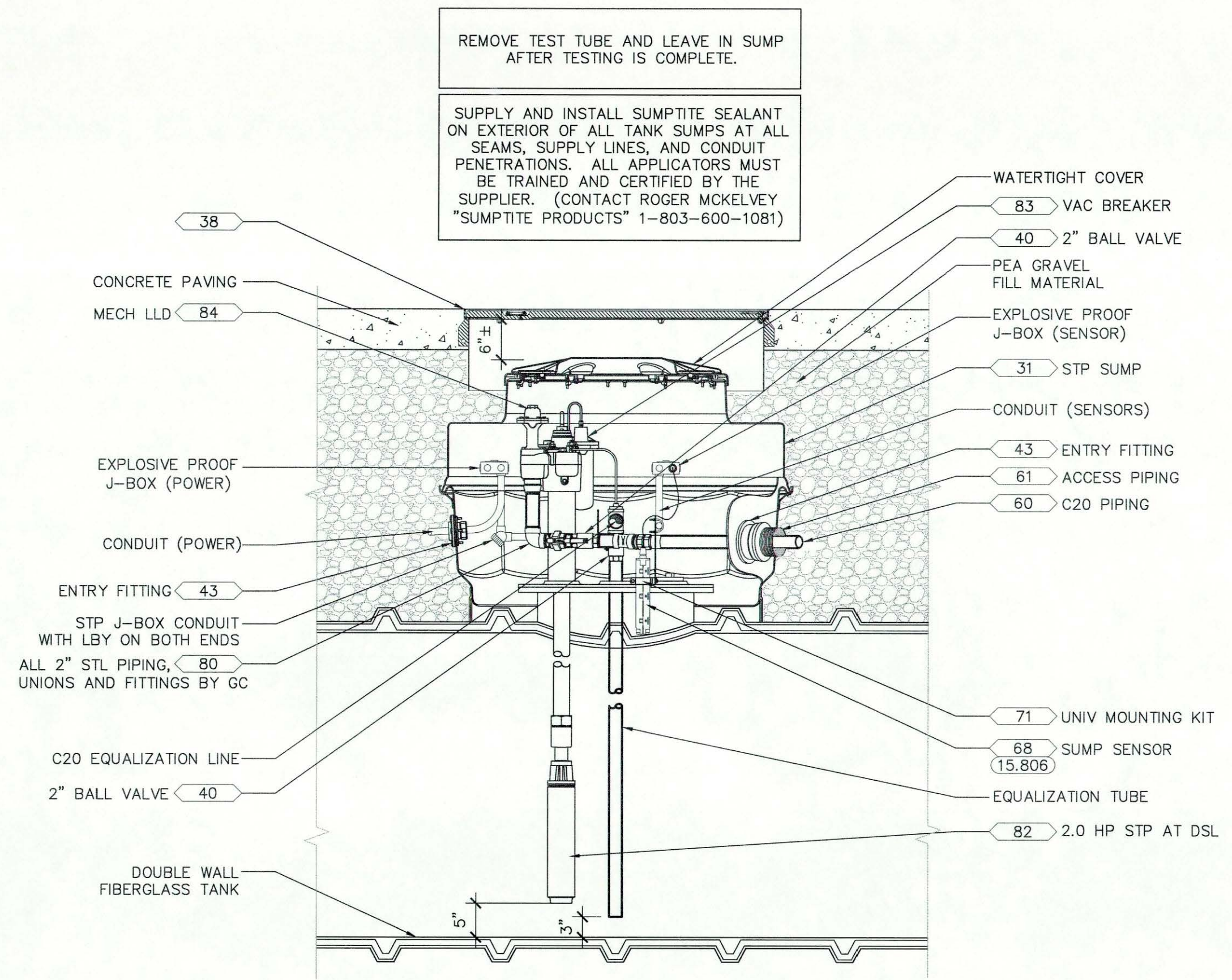
8 EQUALIZATION LINE TESTING
FI-103 DTL 8



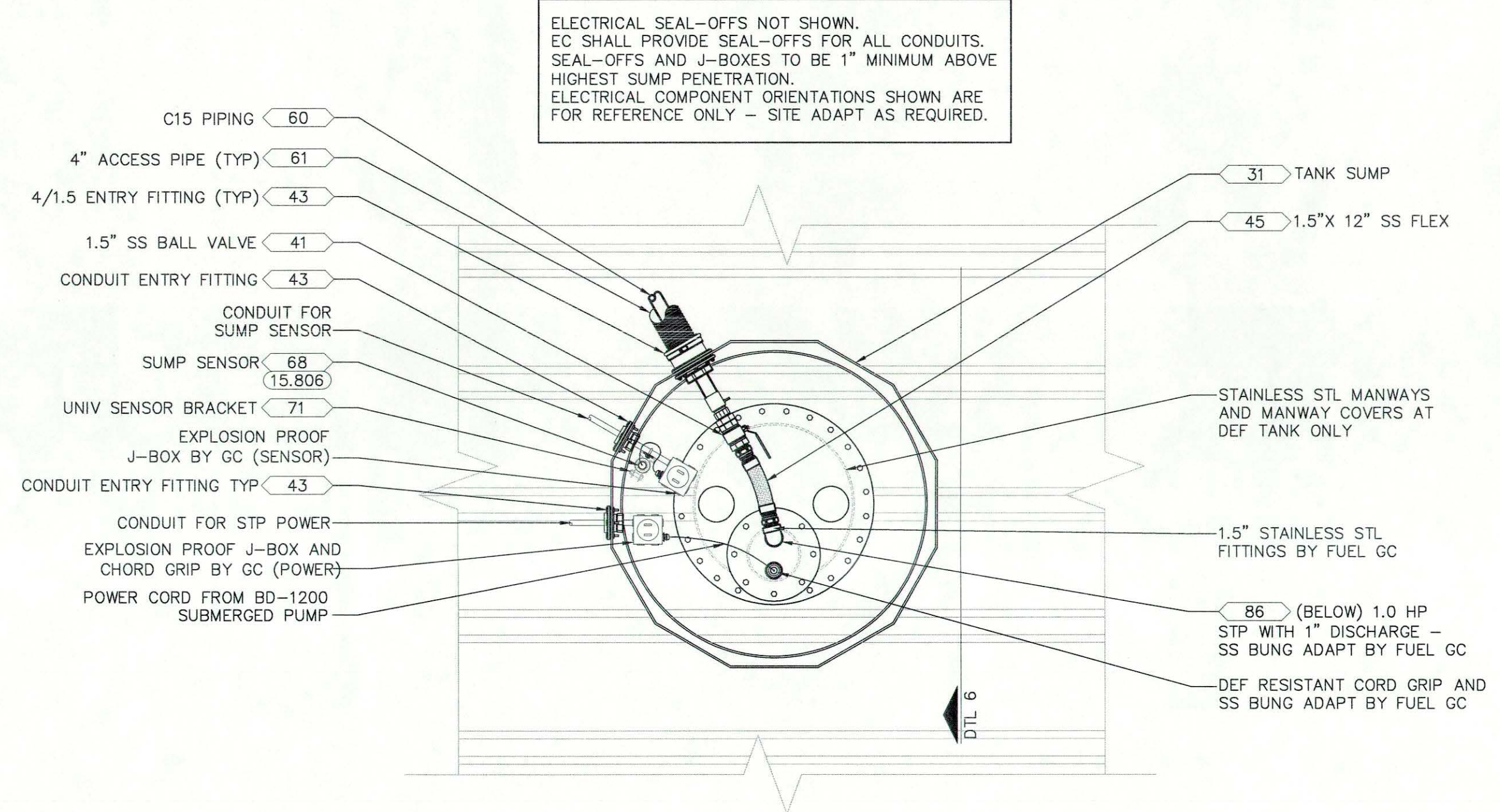
6 D.E.F. STP SUMP SECTION AT TANK #3
3/4"=1'-0" FI-103 DTL 6



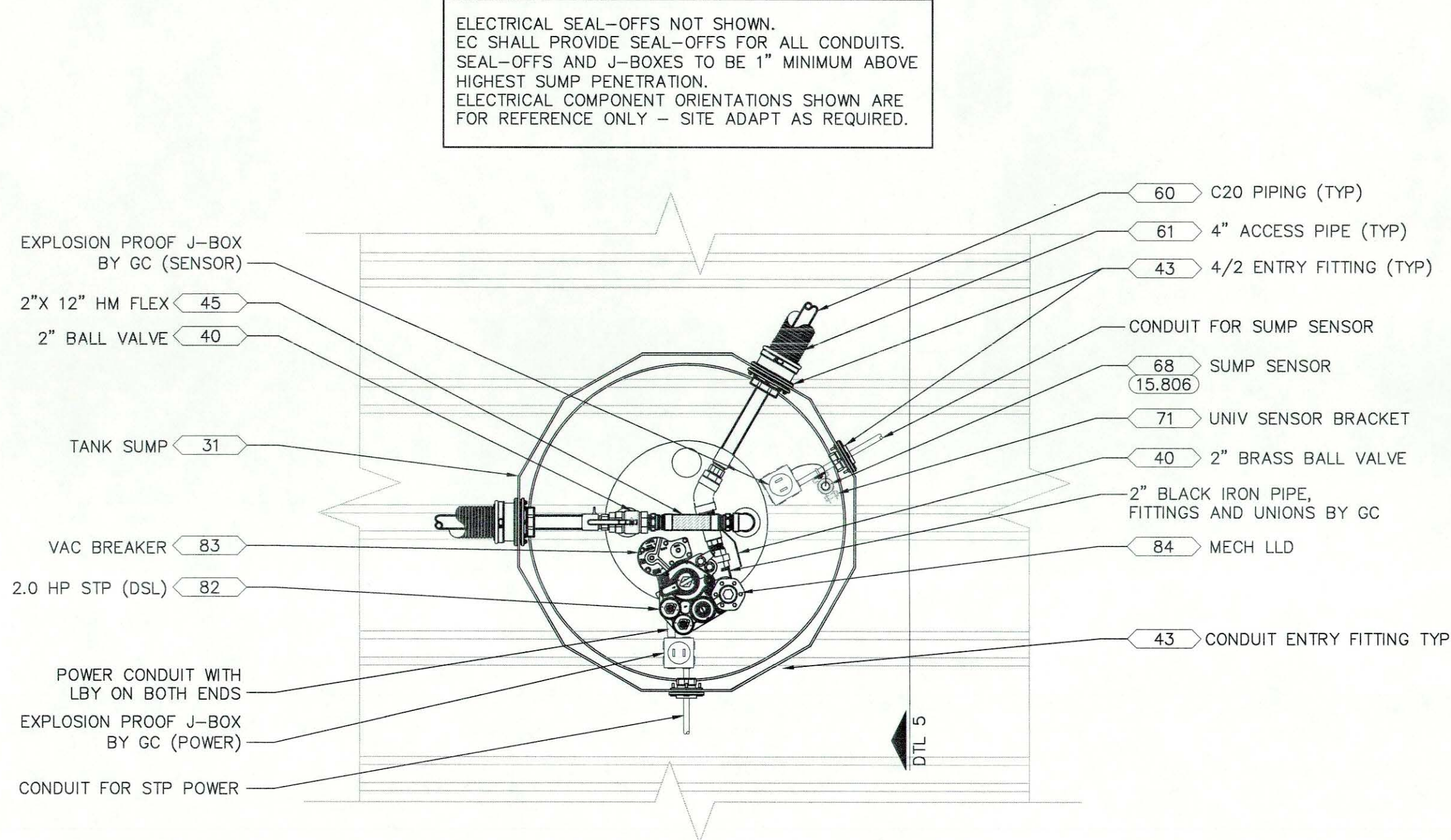
5 STP SUMP SECTION AT TANK #2
3/4"=1'-0" FI-103 DTL 5



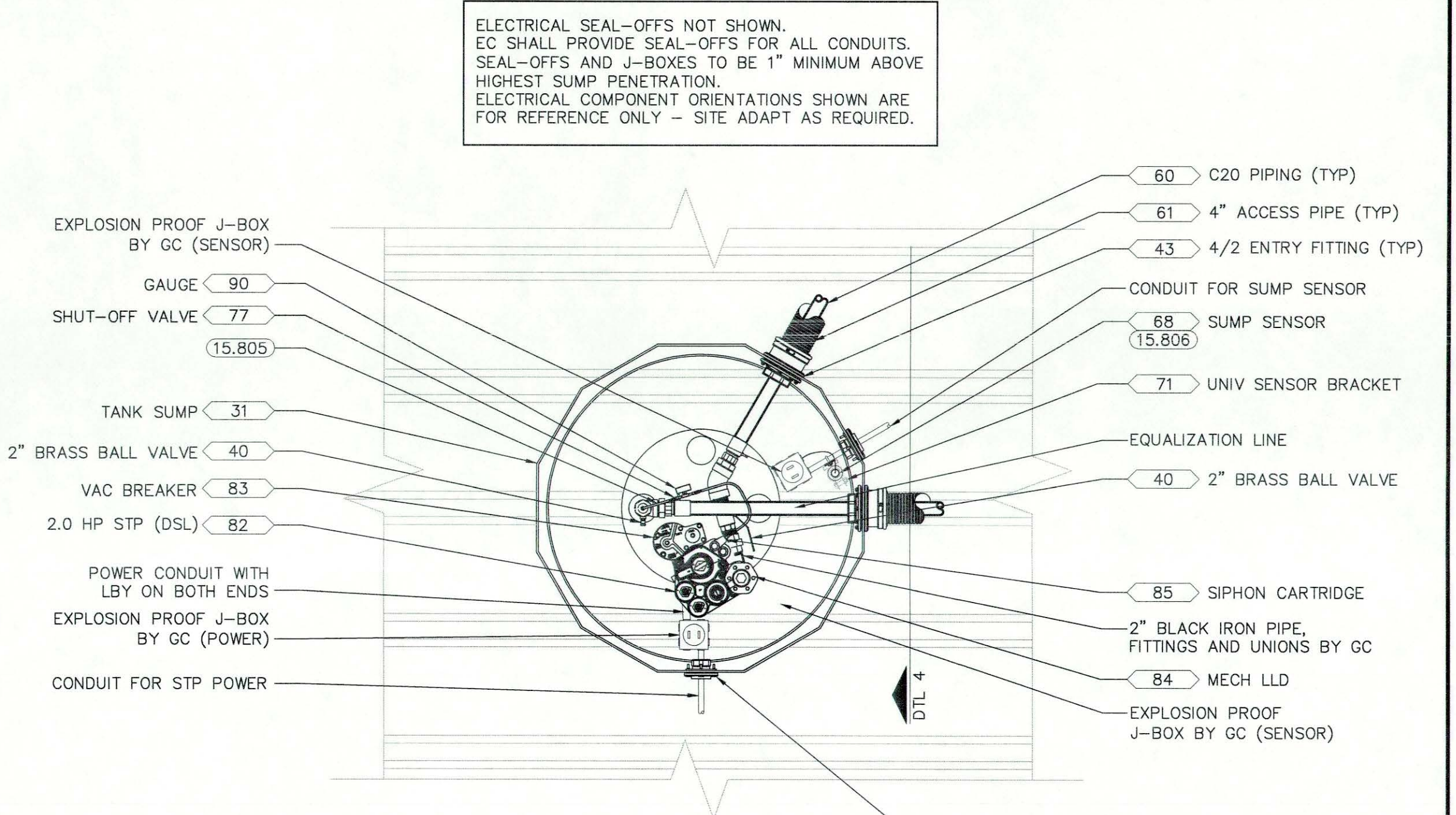
4 STP SUMP SECTION AT TANK #1
3/4"=1'-0" FI-103 DTL 4



3 D.E.F. STP PLAN AT TANK #3
3/4"=1'-0" FI-103 DTL 3



2 DIESEL STP PLAN AT TANK #2
3/4"=1'-0" FI-103 DTL 2



1 DIESEL STP PLAN AT TANK #1
3/4"=1'-0" FI-103 DTL 1

Mar 13, 2017 - 3:11pm - USER jpn
J:\300-50-16-30001 MM Bobje Project - Fort Wayne, IN\Disciplines\Fuel\Sheets\80300 - FI-103 FUEL ISLAND TANK SUMP DETAILS - 7390.dwg

KEYNOTES

- 15.806a SUMP SENSOR TO REST ON THE LOWEST POINT OF UDC SUMP ENCLOSURE. SECURE PVC PIPE TUBE WITH A PIPE CLAMP TO THE SIDE RAIL OF THE SUMP TO ALLOW SENSOR TO BE INSTALLED IN AN UPRIGHT POSITION.
- 15.821 REMOVE AIR CHUCK VALVE AFTER TESTING. REMOVE THE TEST TUBE AND LEAVE IN SUMP AFTER COMPLETING TEST.
- 15.822 SEAL CONNECTION BETWEEN DISPENSER AND DISPENSER SUMP WITH CAULK OR IMPERVIOUS STRIPPING.

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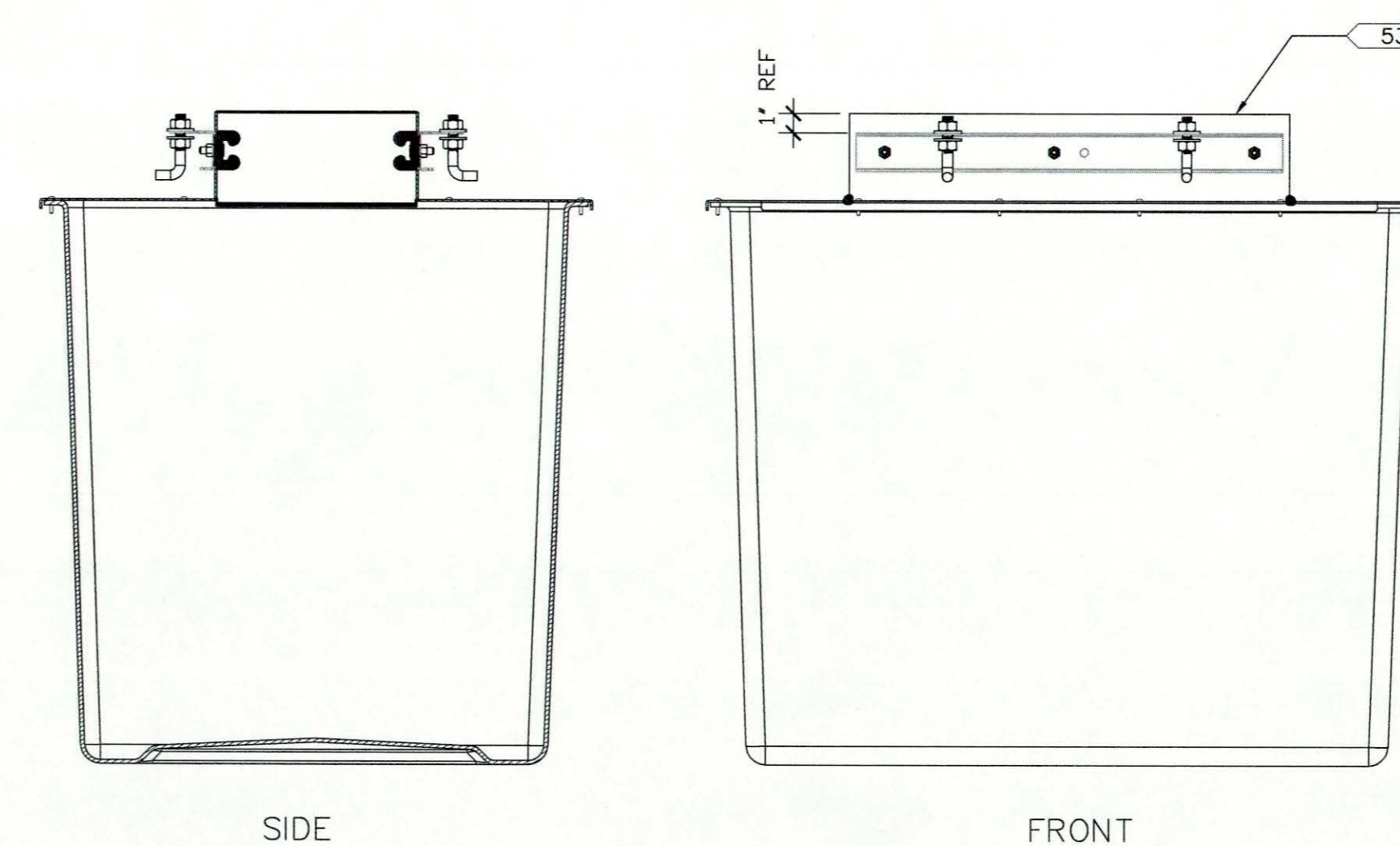
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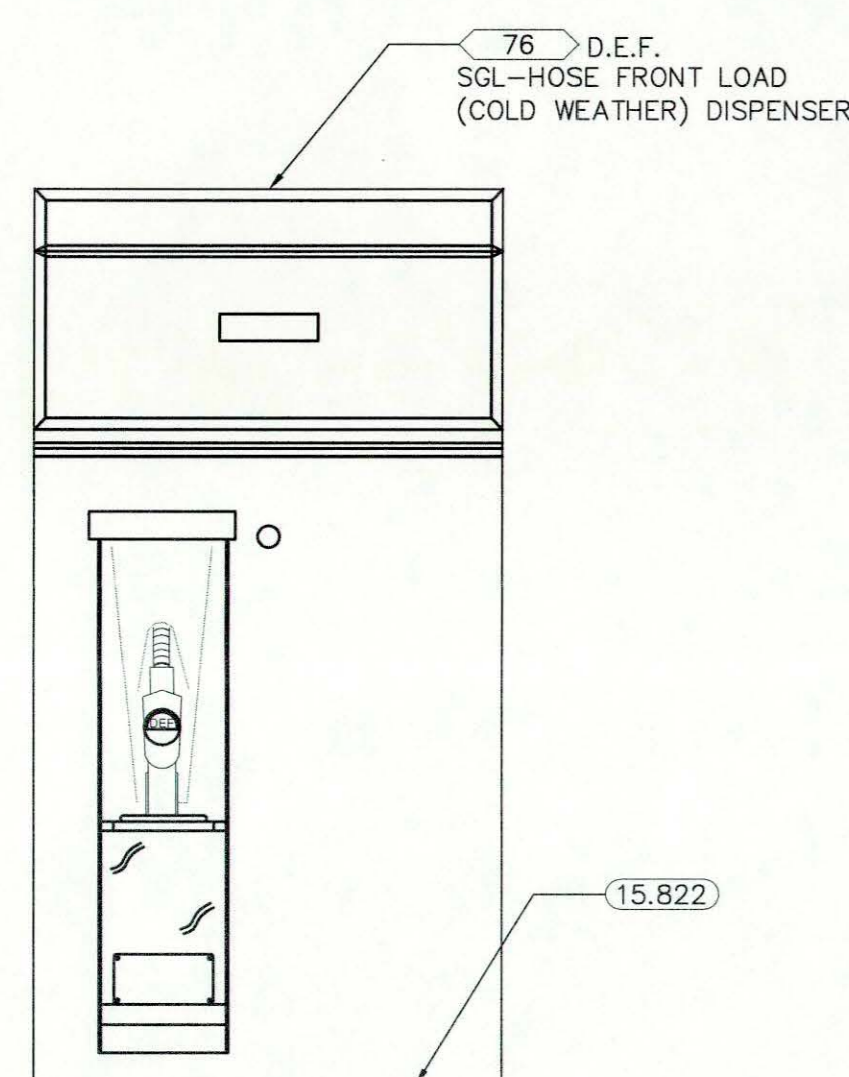


FUEL ISLAND DISPENSER DETAILS

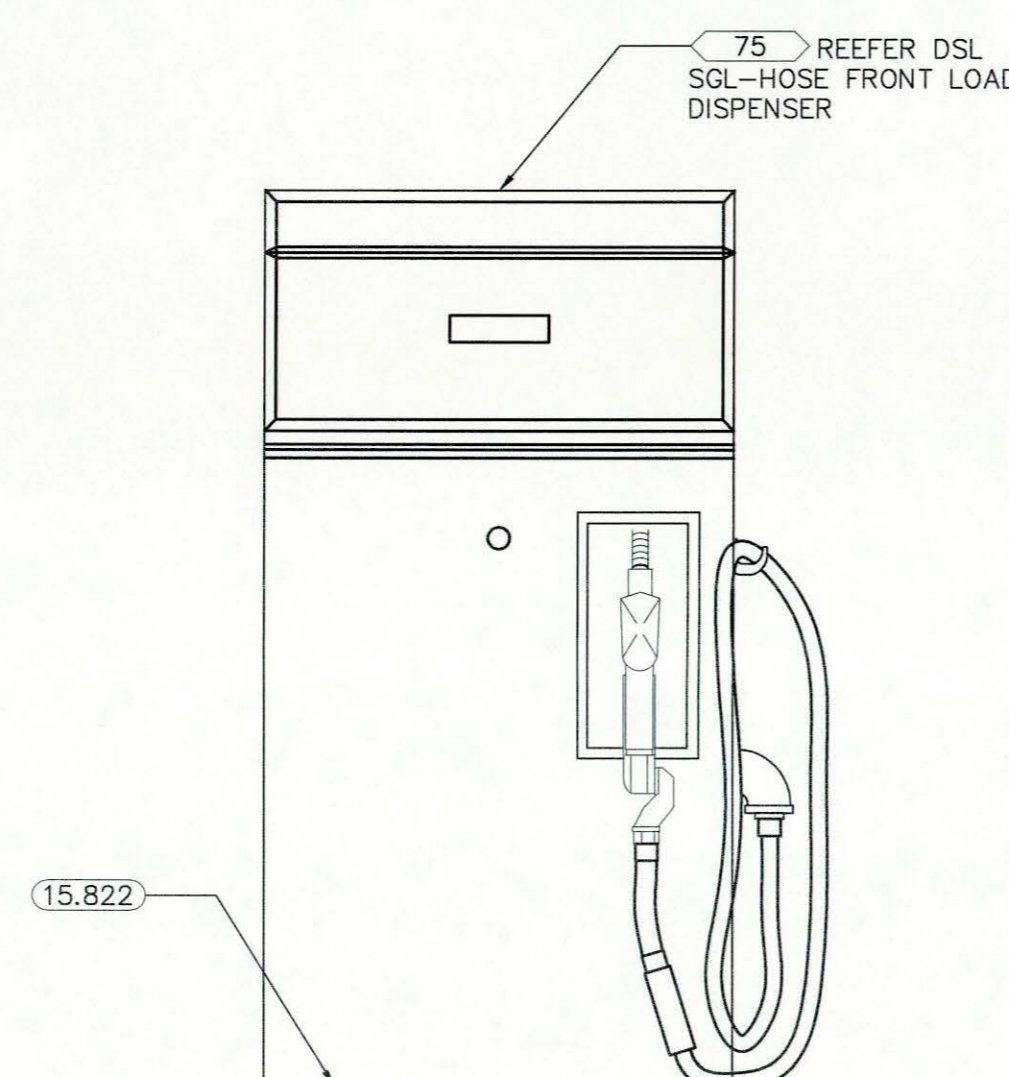
SHEET: **FI-104**



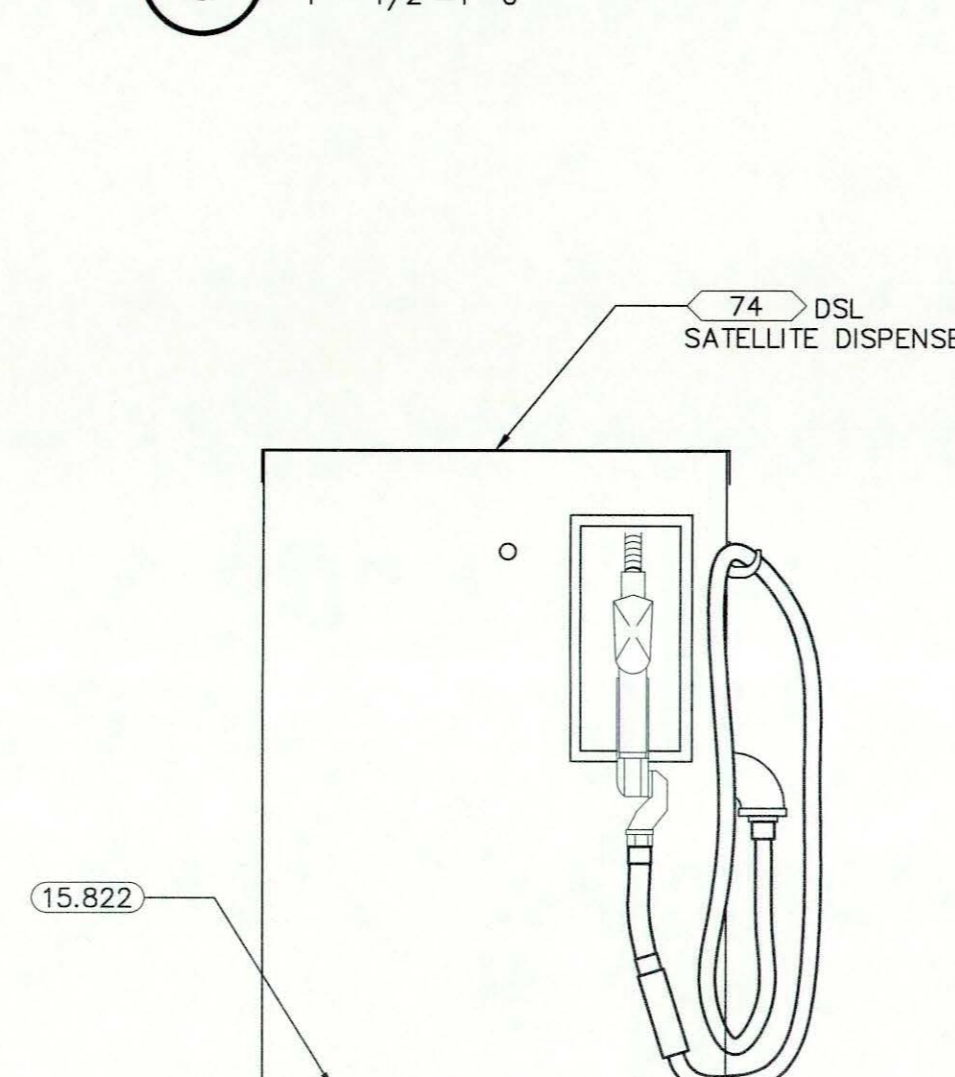
9 TYPICAL UDC SUMP DETAILS
1"=1/2"-0"



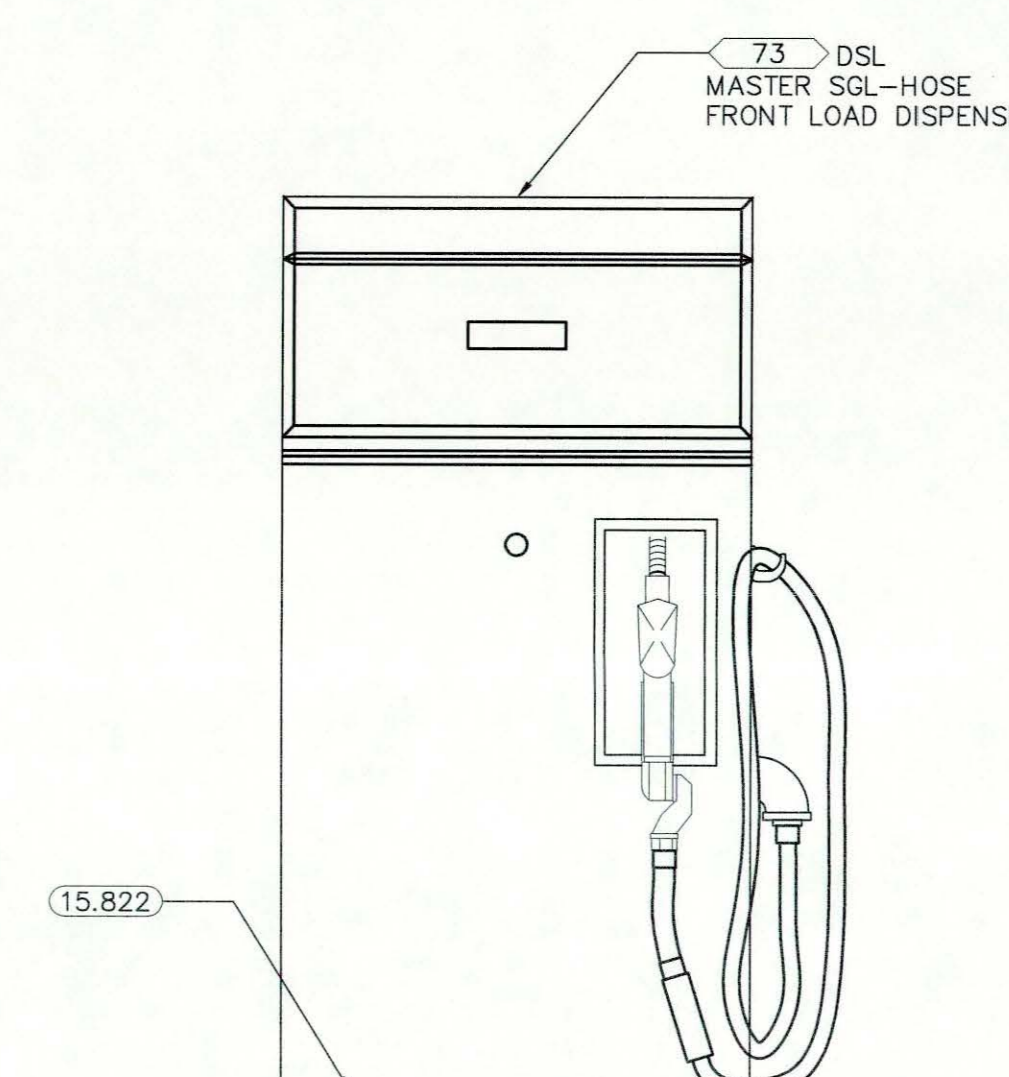
8 "GASBOY" 9862KX-Z FRONT LOAD DEF DISPENSER
NTS FI-104 DTL 8



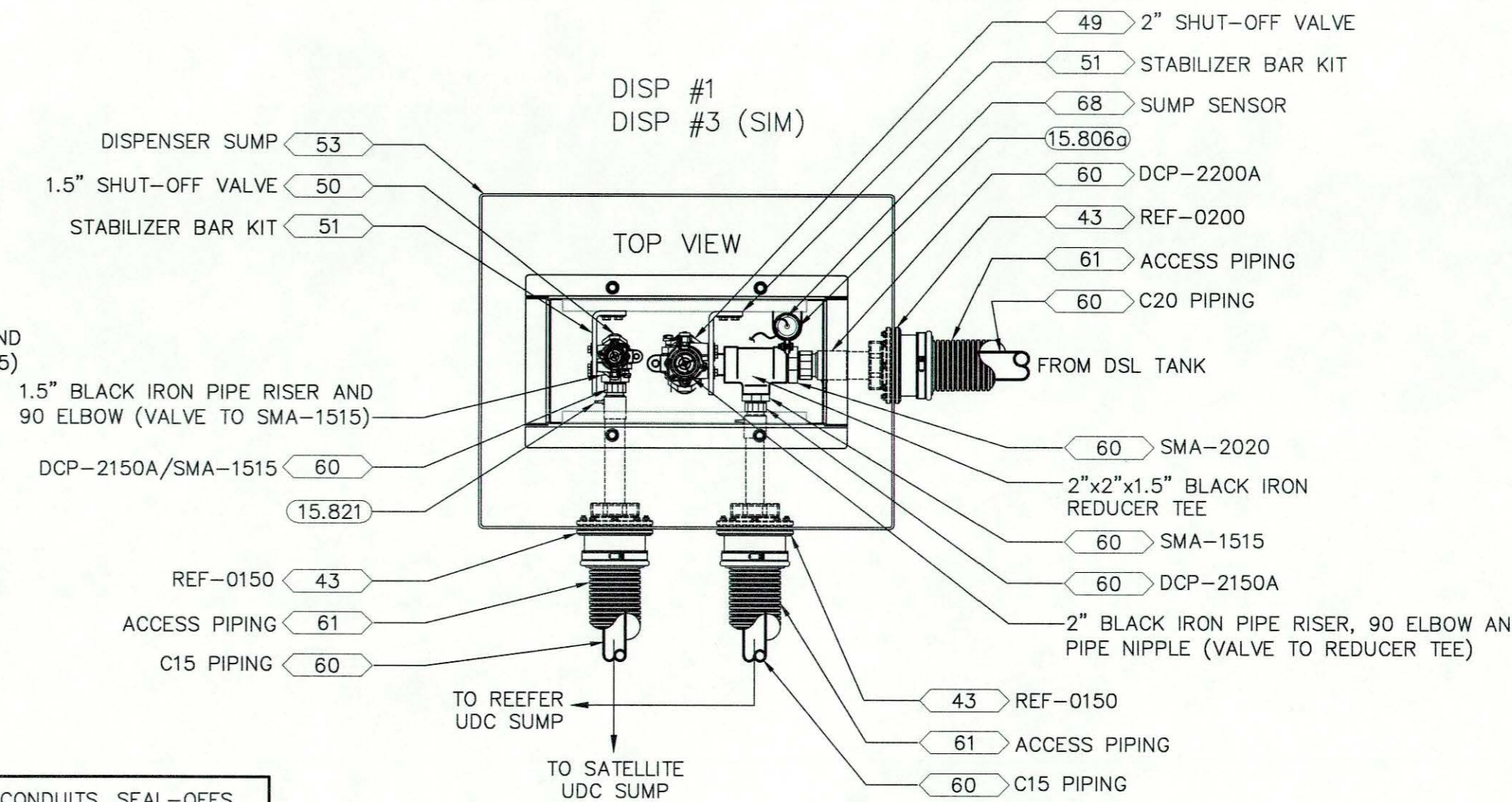
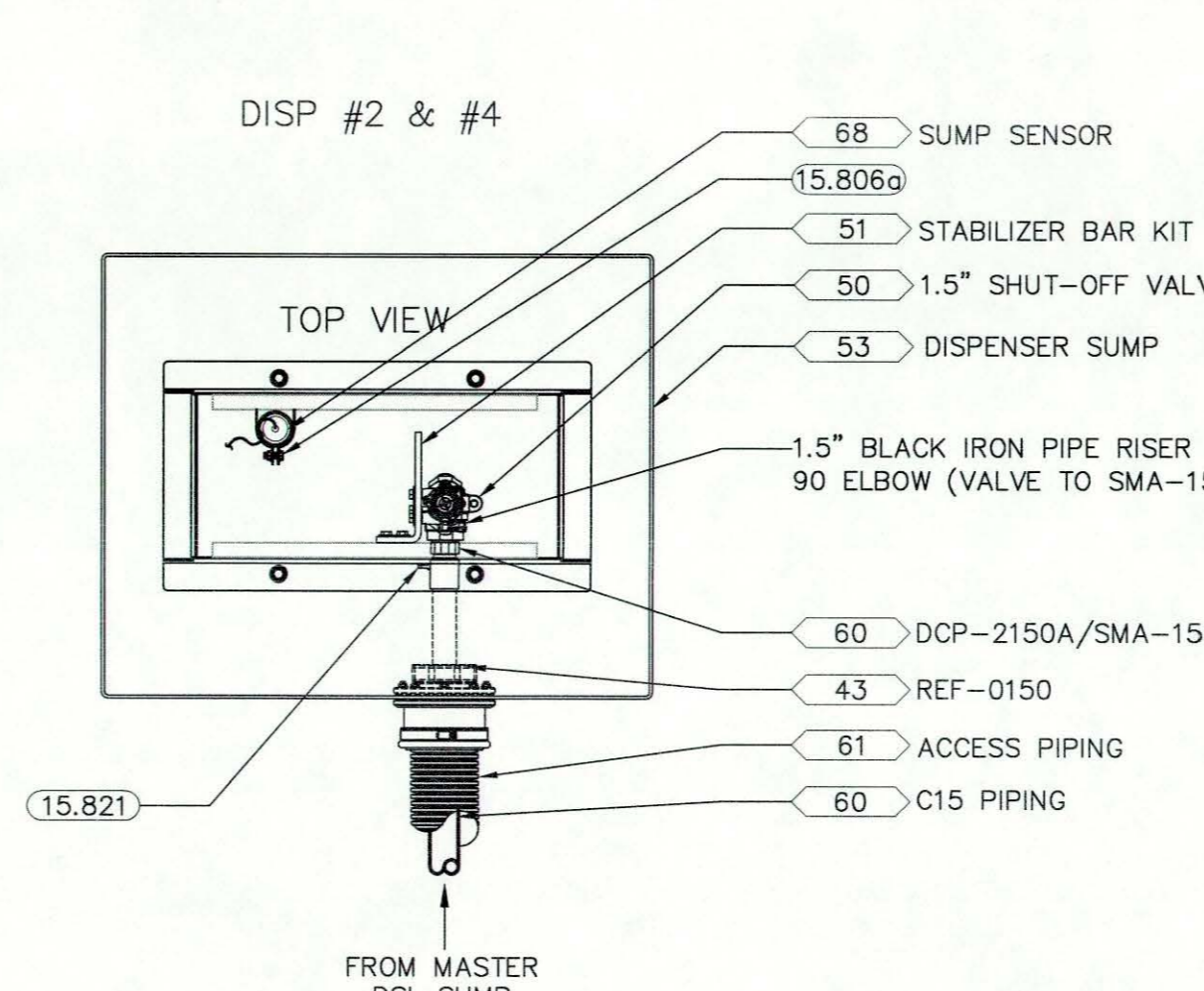
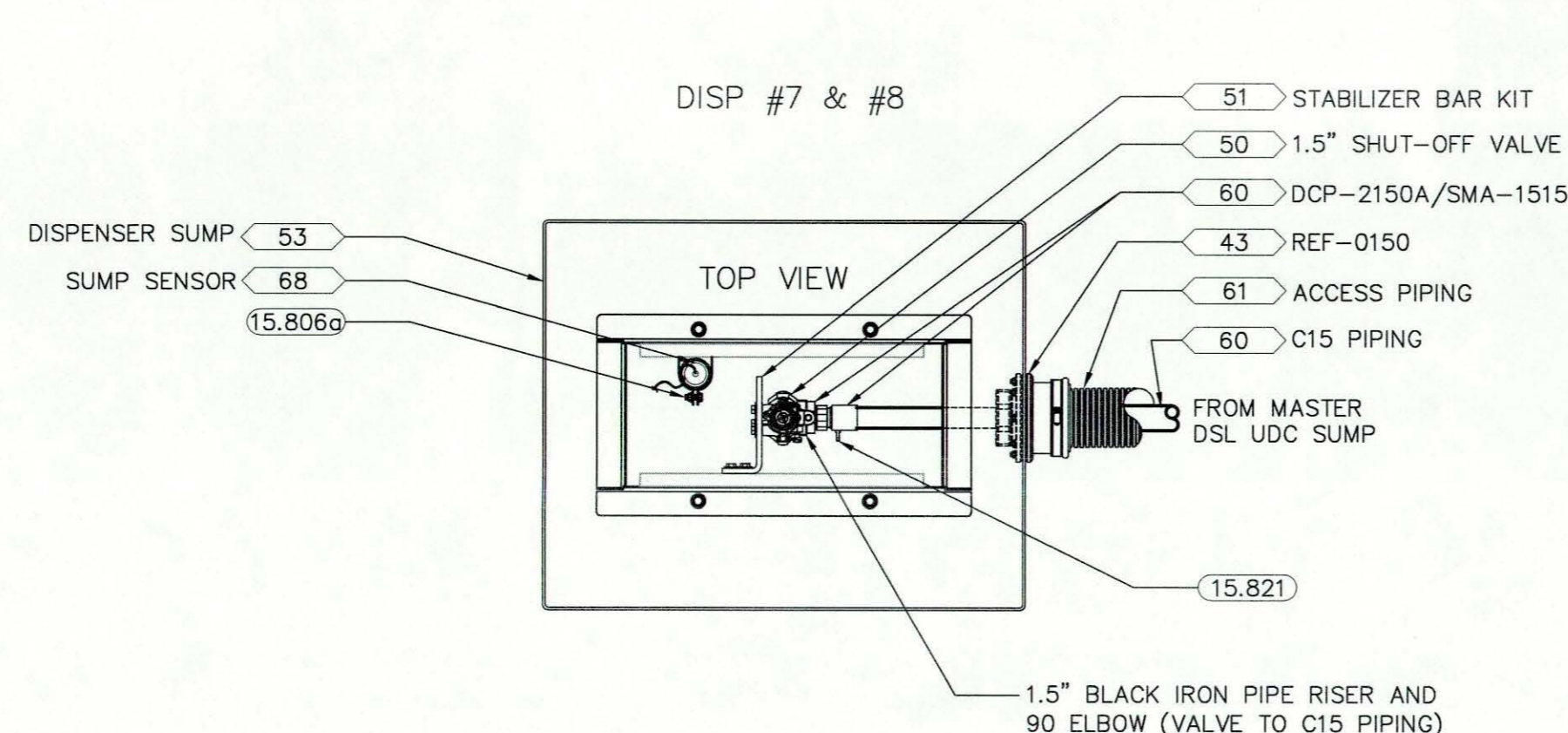
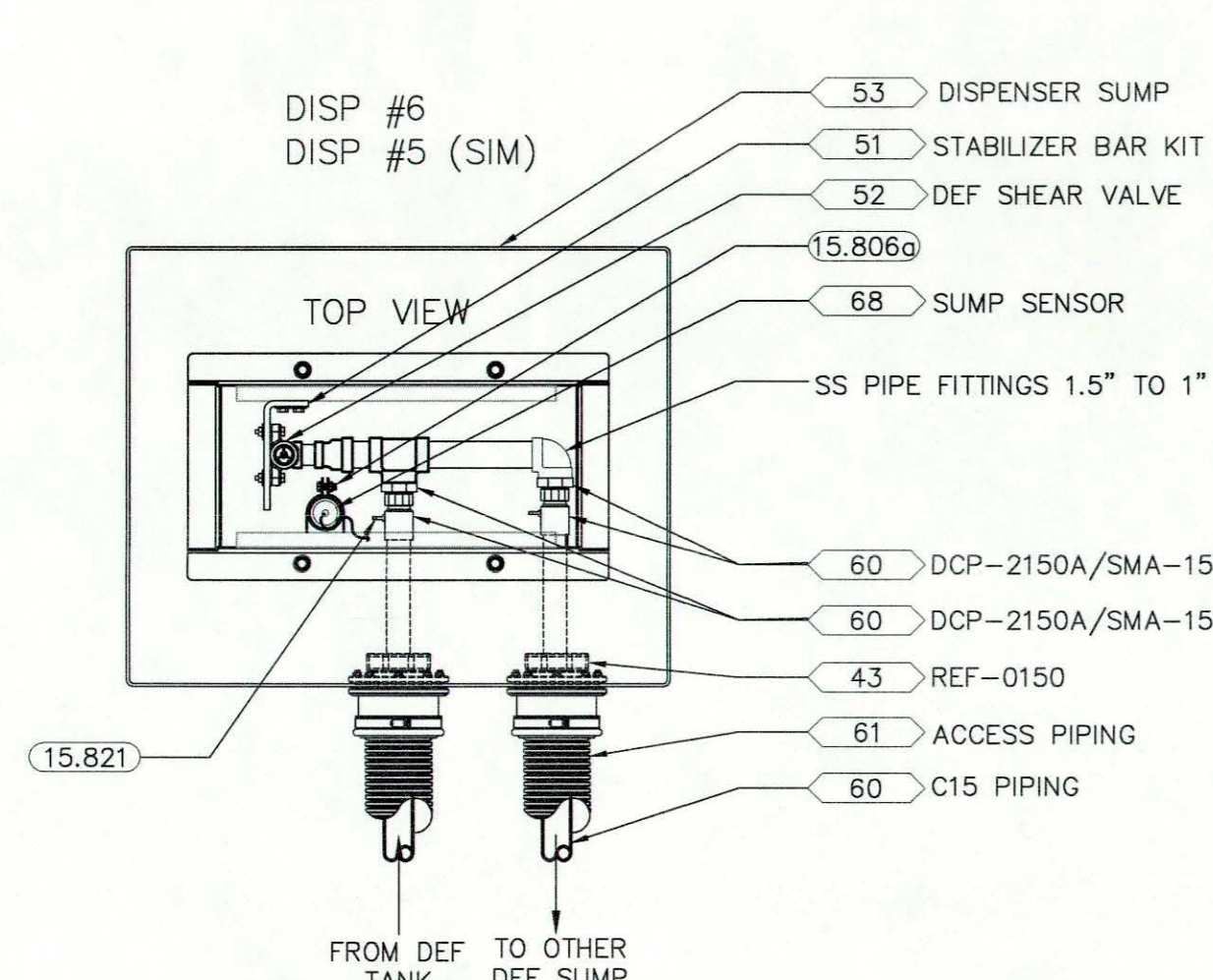
7 "GASBOY" 9853KX-DFZ DSL (REEFER) DISPENSER
NTS FI-104 DTL 7



6 "GASBOY" 9216K-Z DSL SATELLITE DISPENSER
NTS FI-104 DTL 6

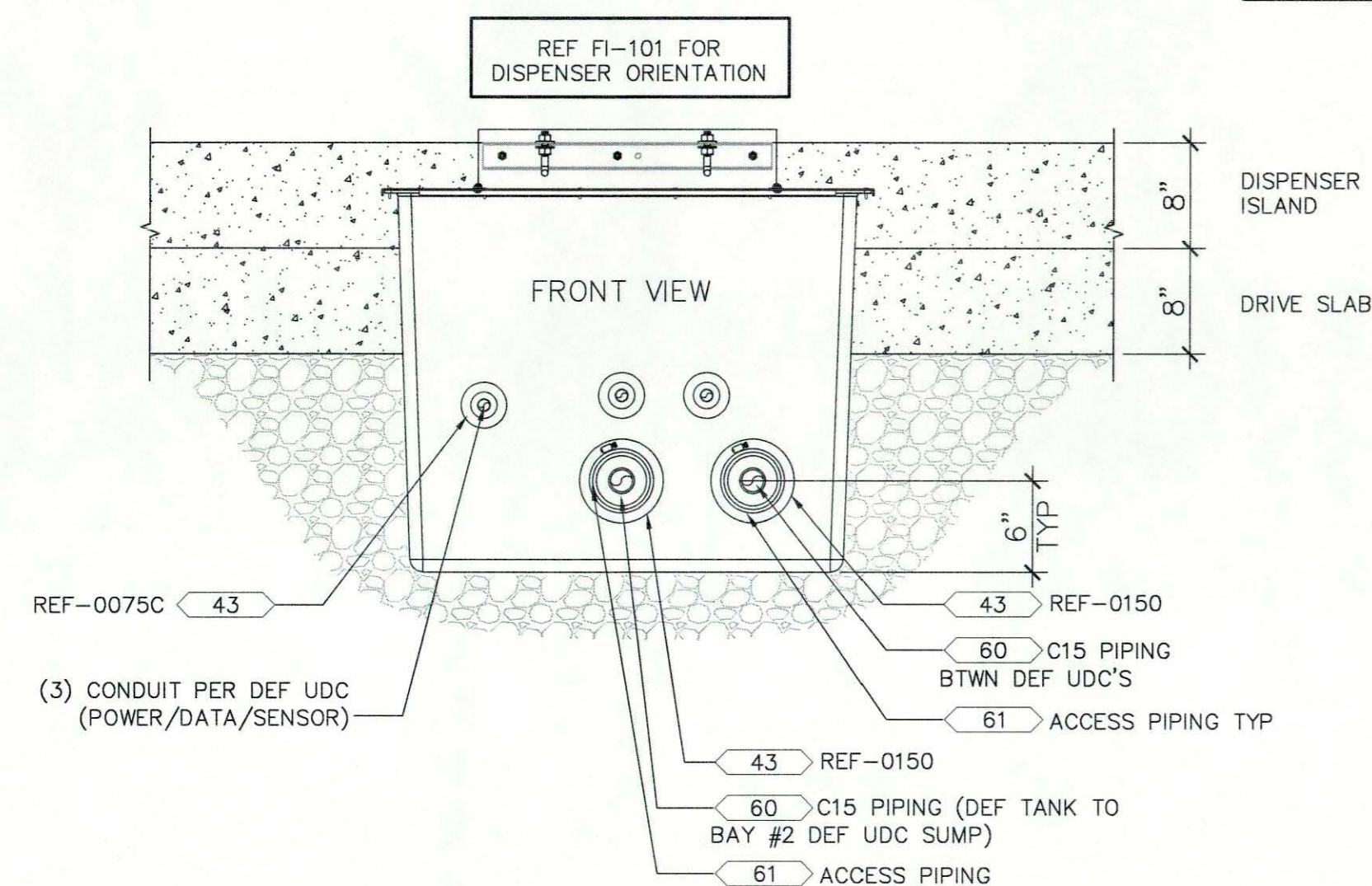


5 "GASBOY" 9850KX-DZ DSL MASTER DISPENSER
NTS FI-104 DTL 5

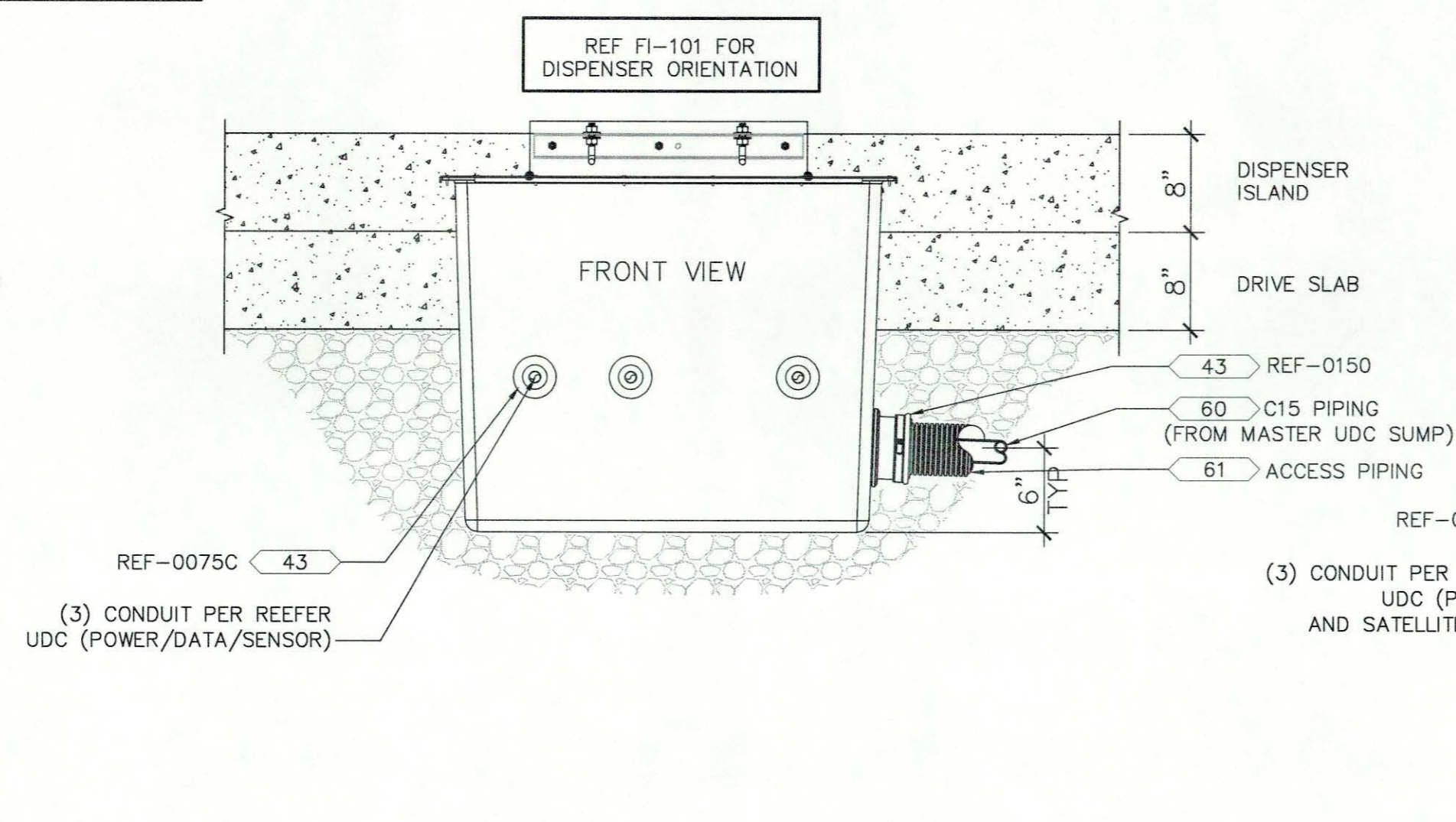


CONDUITS, SEAL-OFFS AND EXPLOSION PROOF J-BOXES NOT SHOWN BUT REQUIRED

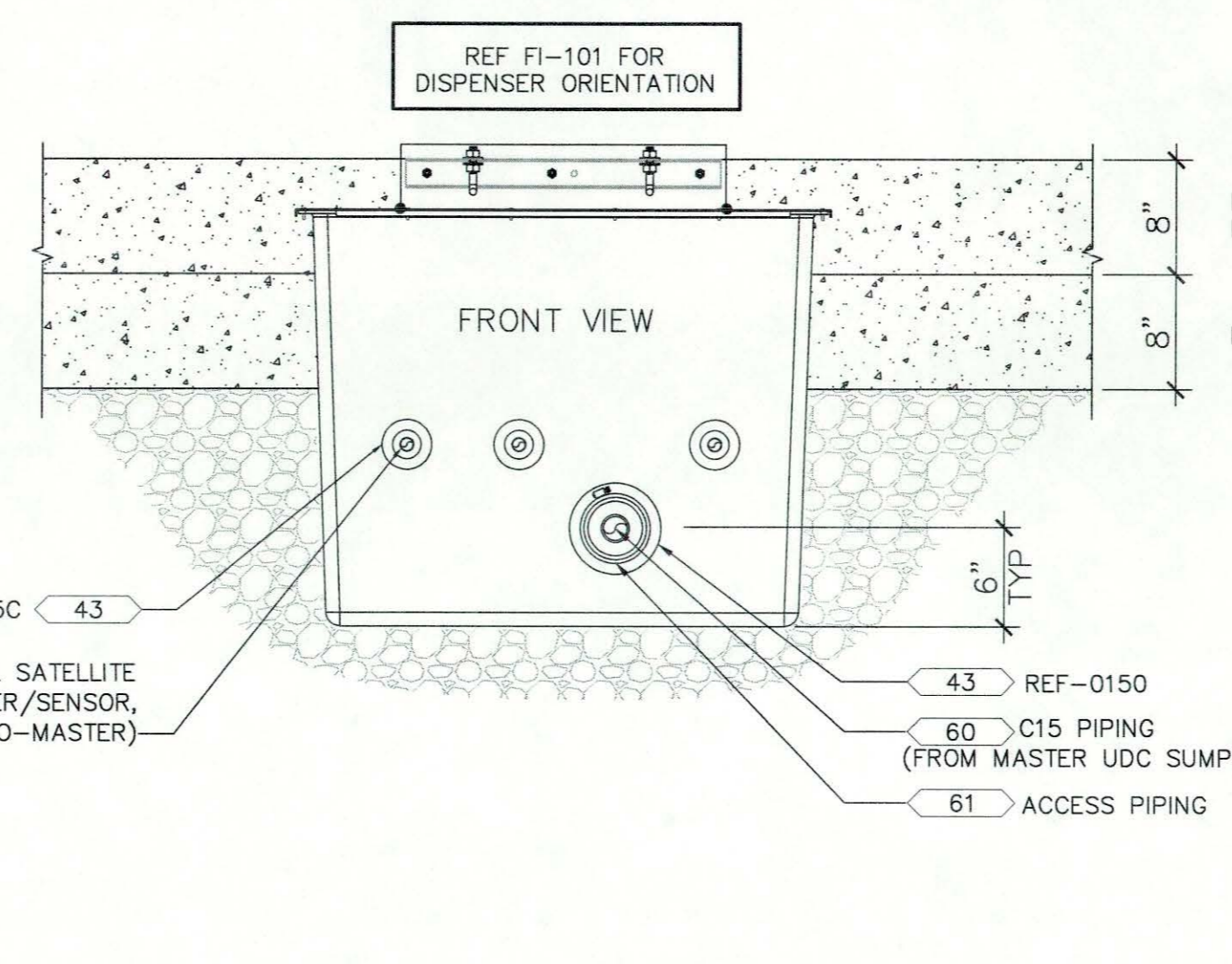
CONDUITS, SEAL-OFFS AND EXPLOSION PROOF J-BOXES NOT SHOWN BUT REQUIRED



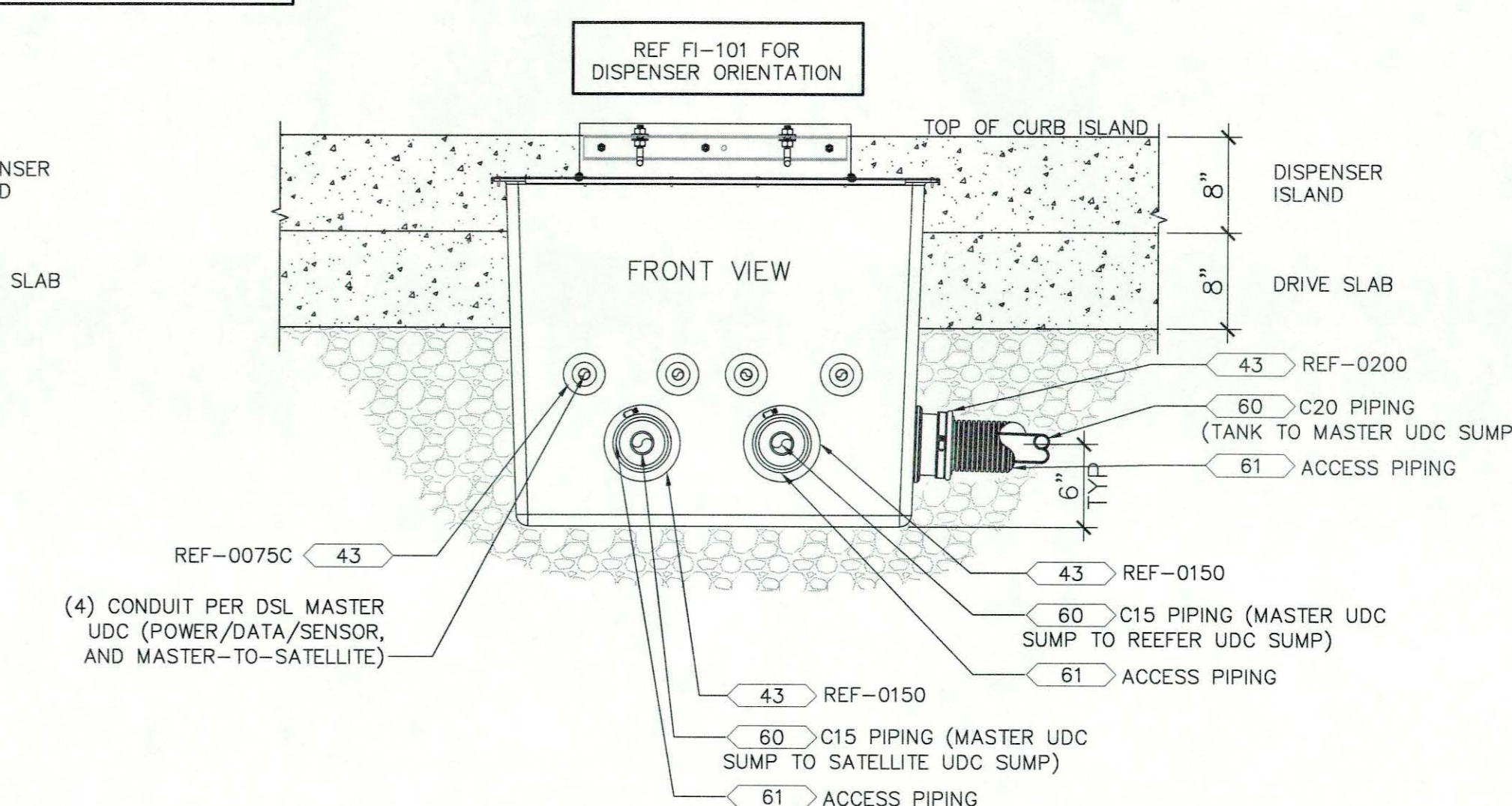
4 TYPICAL D.E.F. UDC SUMP DETAILS
1"=1"-0" FI-104 DTL 4



3 TYPICAL DSL REEFER UDC SUMP DETAILS
1"=1"-0" FI-104 DTL 3



2 TYPICAL DSL SATELLITE UDC SUMP DETAILS
1"=1"-0" FI-104 DTL 2



1 TYPICAL DSL MASTER UDC SUMP DETAILS
1"=1"-0" FI-104 DTL 1

Mar 14, 2017 - 8:44am - USER: jrn J:\300-50-16-30001-IMI-Baja-Project-Fuel-Island-Dispenser-Details-FI-104.dwg

KEYNOTES

- 15.808 OVERFILL PREVENTION VALVE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SET OVERFILL DEVICE FOR RESTRICTION OF FLOW AT OR BELOW 90% TANK CAPACITY AND POSITIVE SHUT-OFF AT 95% TANK CAPACITY TO MEET NFPA 30 REQUIREMENTS
- 15.809 EMBOSS NAMEPLATE HOLDER WITH TANK SIZE IN GALLONS
- 15.810 ALL UNDERGROUND STEEL PIPE AND FITTINGS SHALL BE WRAPPED UP TO A POINT SIX (6) INCHES ABOVE GRADE IN THE FOLLOWING MANNER: APPLY SCOTCHWRAP PIPE INSULATION PUTTY AT ALL HIGH IRREGULAR SURFACES SUCH AS FITTINGS SO AS TO PROVIDE A UNIFORM SURFACE FOR THE PRIME COAT TAPE WRAP. APPLY SCOTCHWRAP PIPE PRIMER AT AN AVERAGE RATE OF 350 SQ. FT. PER GALLON. APPLY SCOTCHWRAP #51 TAPE (20 MILS) WITH WIDTH AND OVERLAP AS FOLLOWS:

PIPE DIA. (IN.)	TAPE WIDTH	OVERLAP
1 1/2	2	3/8
2	2	3/8
4	4	1/2
- 15.811 PULL CORD-!!! **DO NOT CUT !!!**
- 15.812 4" DIAMETER SCHEDULE 40 PVC WITH #20 WELL SCREEN **MUST BE FACTORY SLOTTED. NO FIELD SLOTTING ALLOWED**
- 15.831 3" AND 2" SCHED 40 BLACK IRON PIPE PRIME AND PAINT TO MATCH BUILDING
- 15.842 MANHOLE COVER. REFER TO MANHOLE COVER COLOR SCHEDULE.

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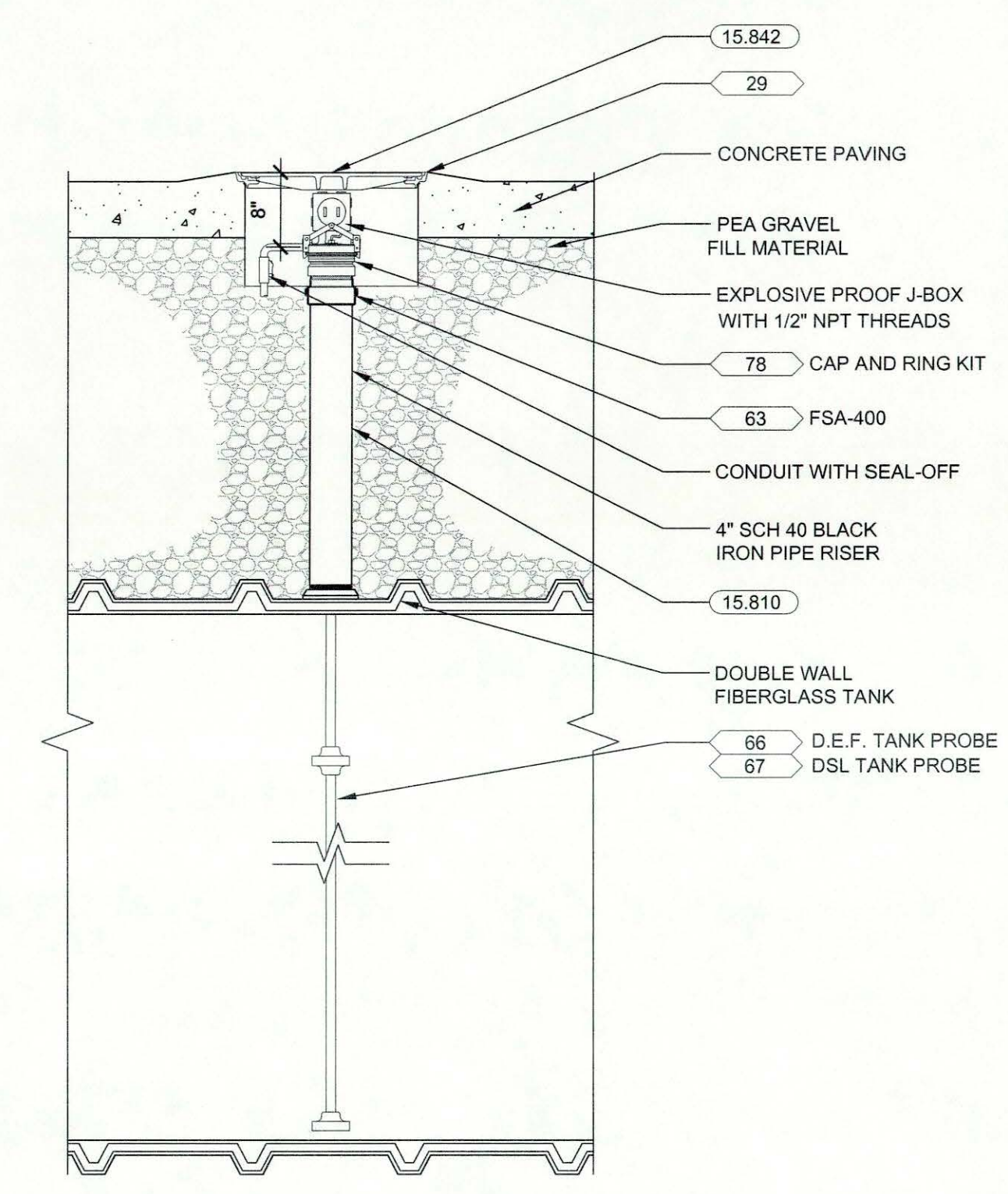
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JOB NUMBER: 501638001

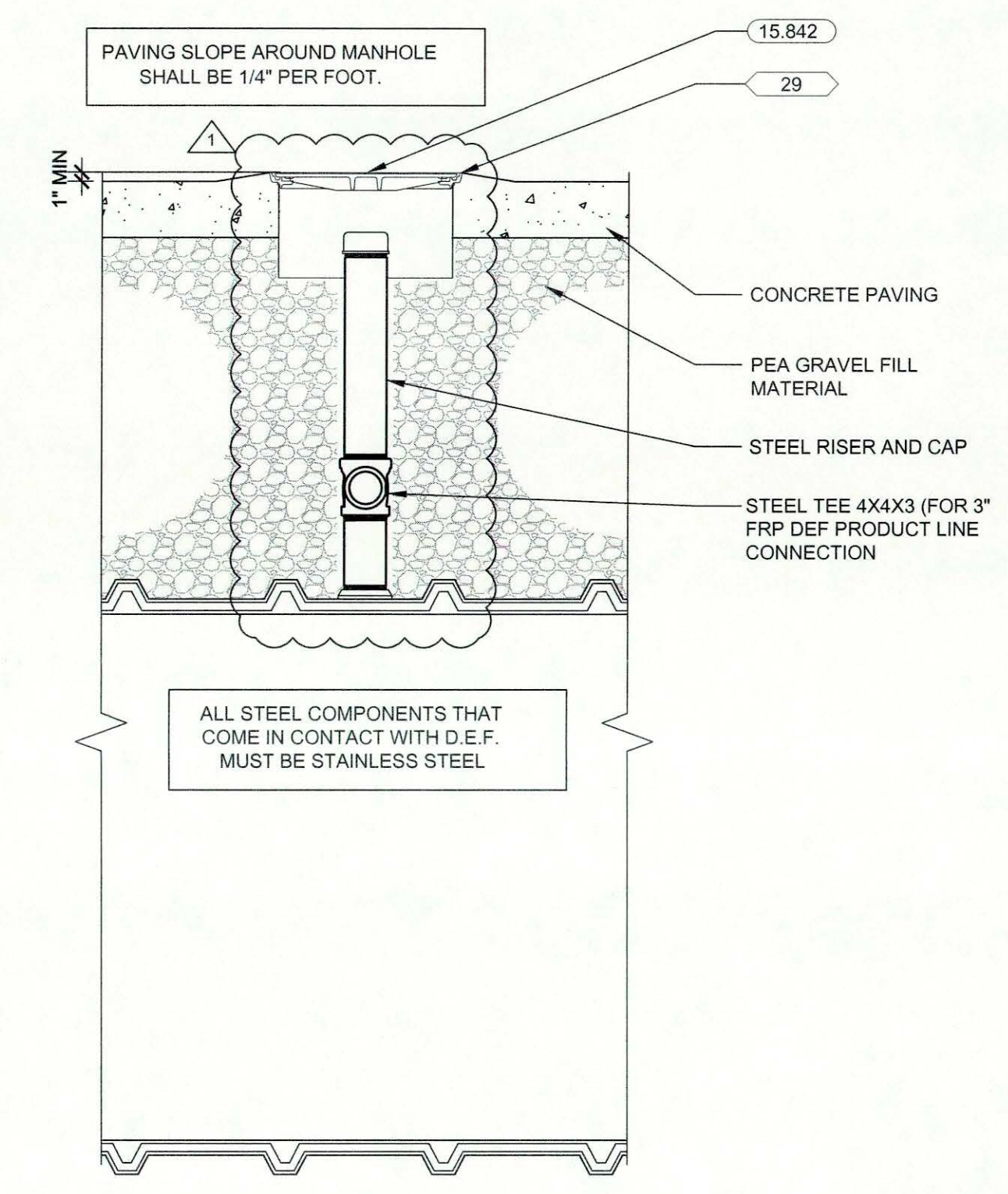
MANHOLE COVER PAINT SCHEDULE

YELLOW	DIESEL PRODUCT FILL
BLUE	D.E.F. PRODUCT FILL
BLACK	MANHOLES FOR DIESEL/DEF VENT, INTERSTICE AND TANK MONITORS (TOP AND BOTTOM SIDE)

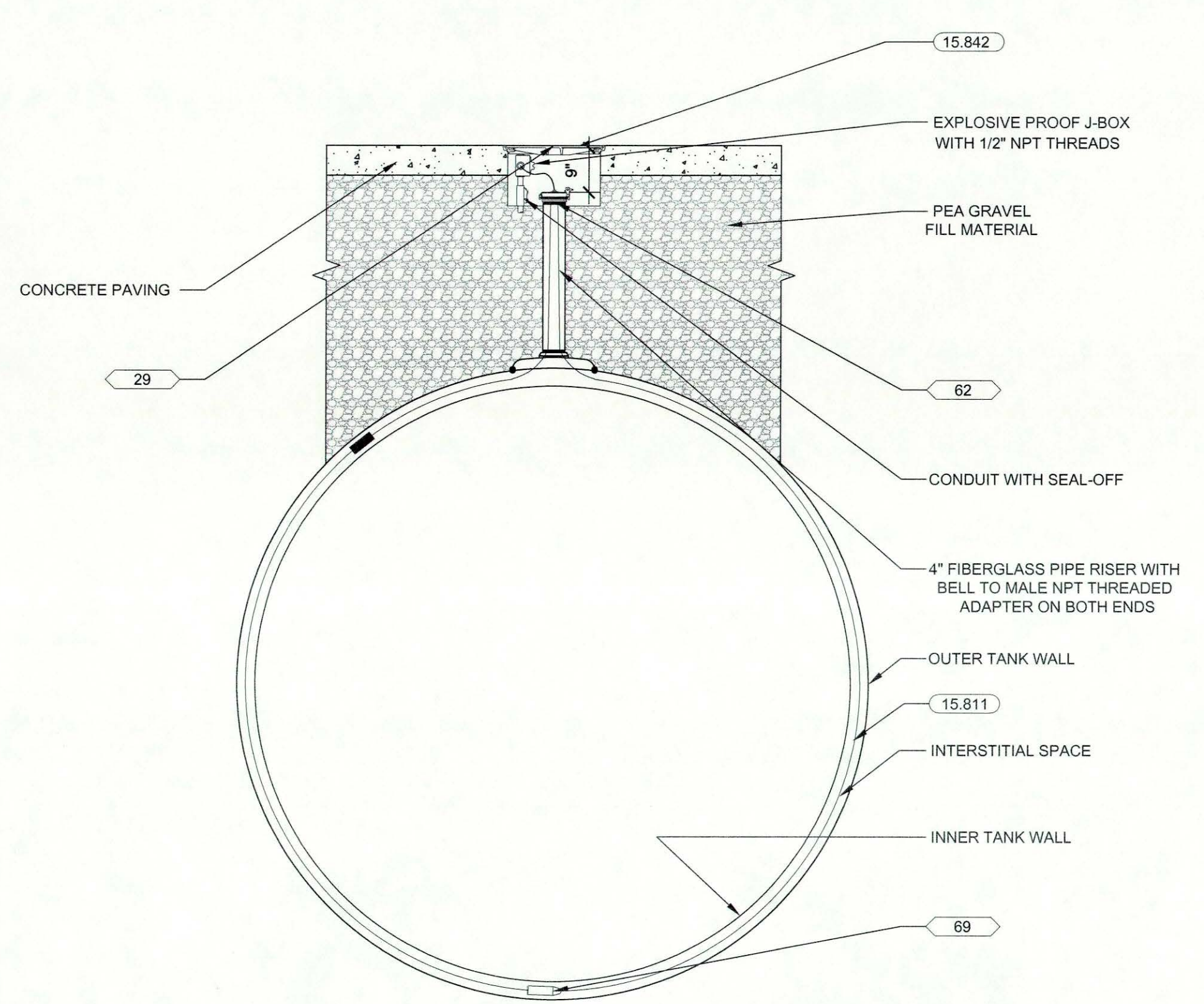
NOTE: PAINT COLOR TO MATCH PRODUCT MARKER TAG OF EACH PRODUCT



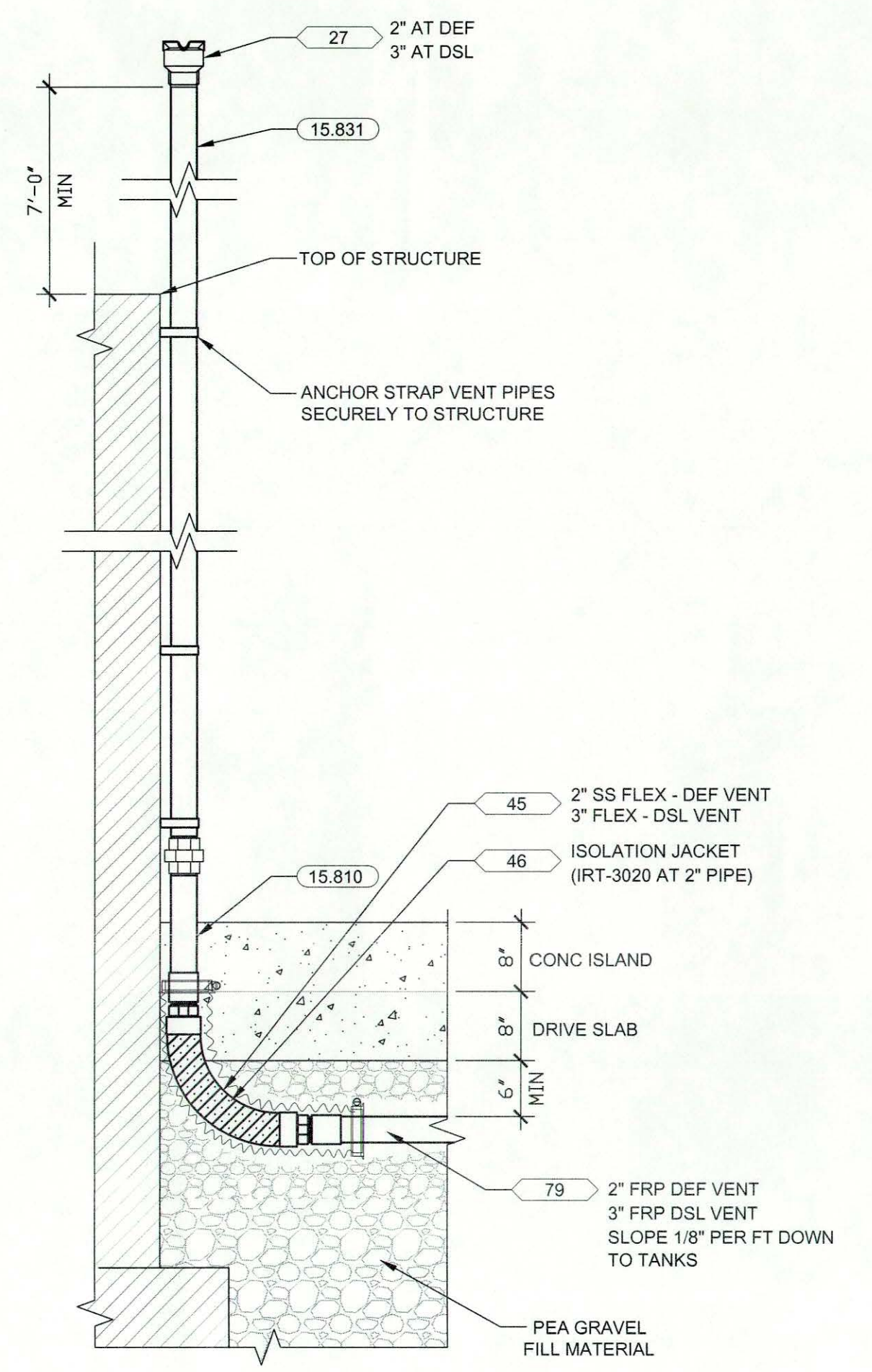
7 SECTION AT TANK PROBE
NTS FI-105 DTL 7



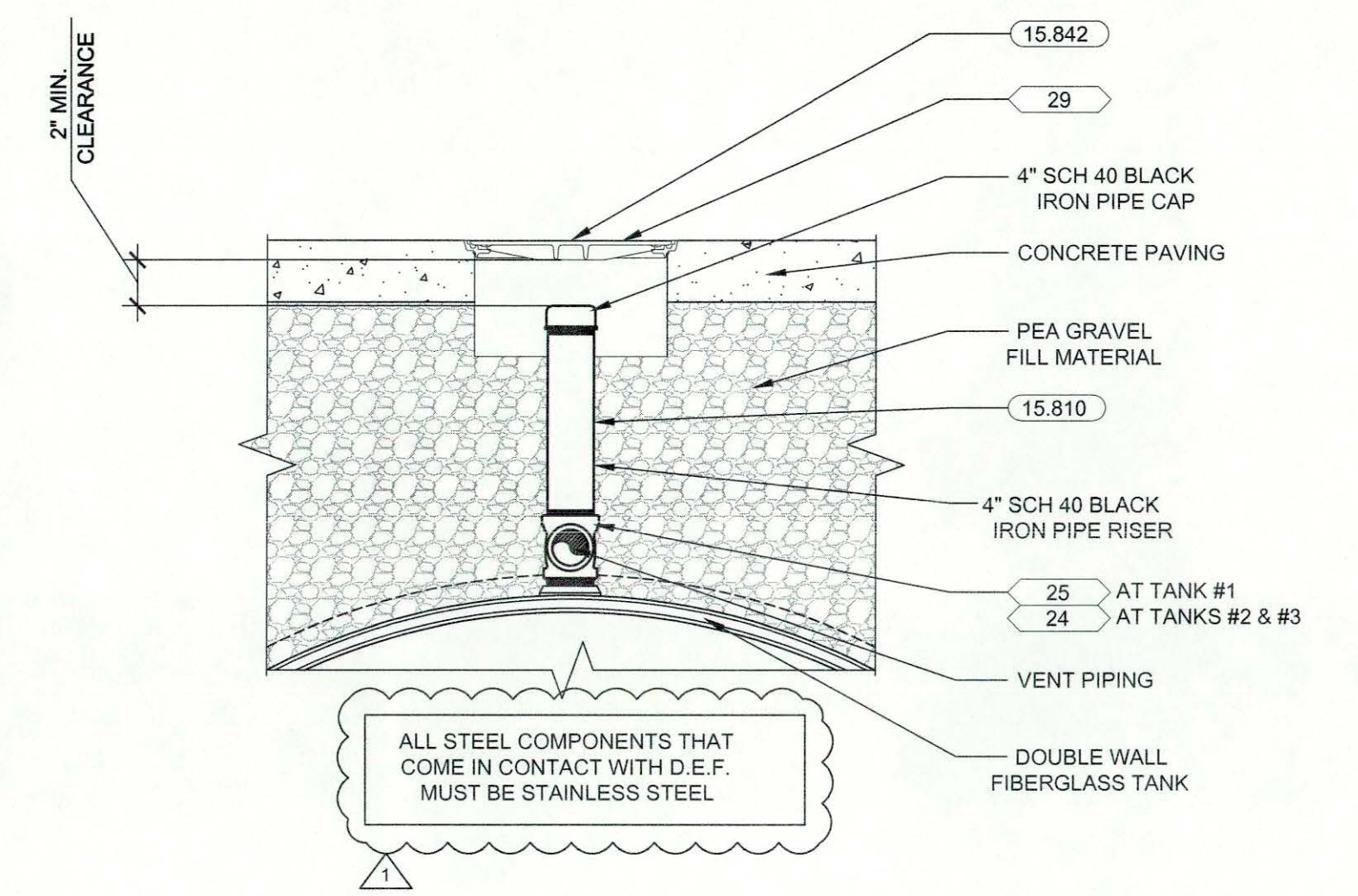
6 SECTION AT D.E.F. PRODUCT FILL
NTS FI-105 DTL 6



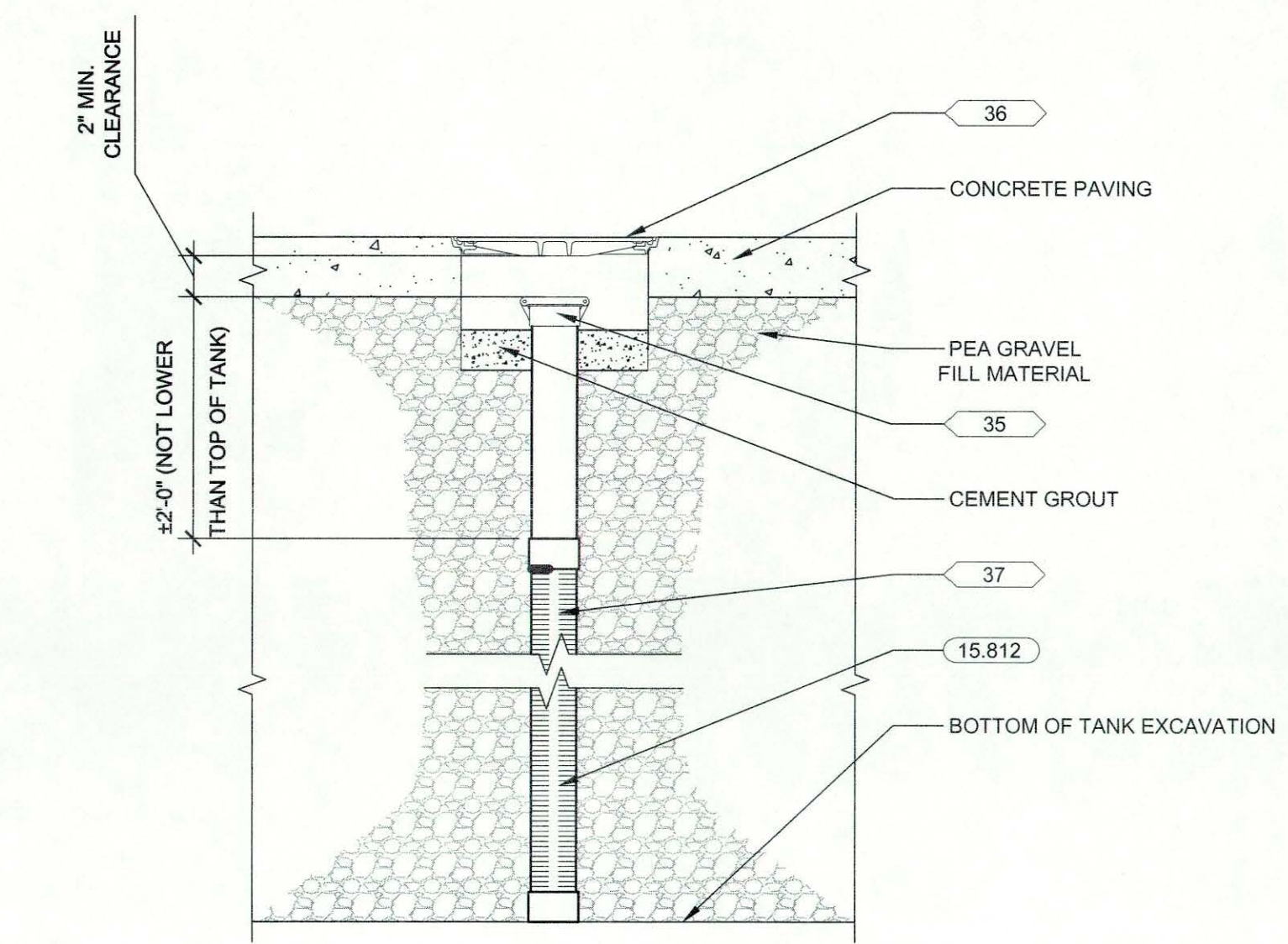
5 DRY ANNULAR SPACE MONITOR
NTS FI-105 DTL 5



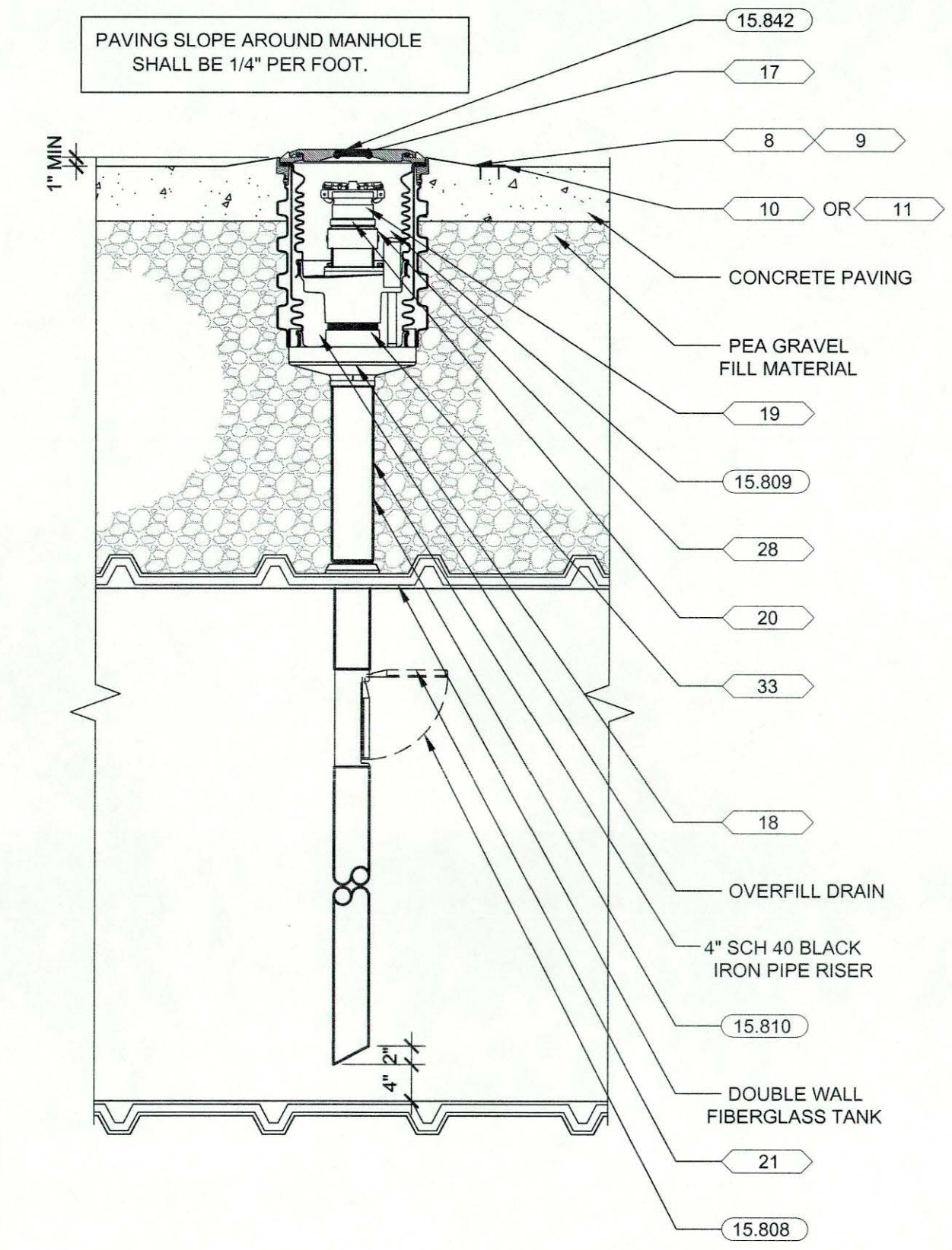
4 REMOTE VENT RISER DETAIL
3/4\"/>



3 SECTION AT DIESEL AND DEF VENT PIPING CONNECTION
3/4\"/>



2 SECTION AT OBSERVATION WELL
3/4\"/>



1 SECTION AT DIESEL PRODUCT FILL
3/4\"/>

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1	05-05-17	CCD 4

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DRAWN BY: JMA
DOCUMENT DATE: 01/27/17
ISSUE: FOR CONSTRUCTION



FUEL ISLAND TANK AND VENT PIPING DETAILS

SHEET: FI-105

EQUIPMENT LIST						
EQUIP. NO.	MAKE	MODEL	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY
1	XERXES	DW3 FIBERGLASS	20,000 GAL. DOUBLE WALL FRP UNDERGROUND TANK WITH DRY ANNULAR SPACE, 42" ATTACHED COLLAR, 22" I.D. MANWAY WITH (4) 4" NPT OPENINGS IN MANWAY COVER, (3) 4" THREADED OPENINGS	1	GC	GC
2	XERXES	DW3 FIBERGLASS	20,000 GAL. DOUBLE WALL FRP UNDERGROUND 2-COMPARTMENT TANK (12,000 GAL. DSL/8,000 GAL. DEF WITH DRY ANNULAR SPACE, (2) 42" ATTACHED COLLARS, (1) 22" I.D. MANWAY FOR DSL WITH (4) 4" NPT OPENINGS IN MANWAY COVER AND (3) 4" NPT THREADED OPENINGS. (1) SS 22" I.D. MANWAY WITH SPECIAL SS COVERS (DESIGNED FOR BD-1200) AND (3) SS 4" NPT THREADED OPENINGS	1	GC	GC
3	XERXES	---	DEADMEN WITH EYEBOLTS	8	GC	GC
4	XERXES	---	FIBERGLASS ANCHOR STRAPS FOR 10' DIA TANK	14	GC	GC
5	NOT USED					
6	XERXES	---	TURNBUCKLES	28	GC	GC
7	AMXCO JASCO SUPPLY	POLYECT 15600 GGS40	FILTER FABRIC NON-WOVEN FILTER FABRIC	AS REQD	GC	GC
8	OPW	106DEF-XXXX	PRODUCT MARKER SET IN CONCRETE - D.E.F.	1	GC	GC
9	OPW	106DL-0095	PRODUCT MARKER SET IN CONCRETE - DIESEL	2	GC	GC
10	OPW	106N-1100	PRODUCT MARKER SET IN CONCRETE #1	1	GC	GC
11	OPW	106N-2200	PRODUCT MARKER SET IN CONCRETE #2	1	GC	GC
12	OPW	106N-3300	PRODUCT MARKER SET IN CONCRETE #3	1	GC	GC
13	OPW	1TAG-XXXX	PRODUCT MARKER FOR MANHOLE COVER - D.E.F.	1	GC	GC
14	POMECCO/OPW	211-RM01	REMOTE FILL SPILL CONTAINER	1	GC	GC
15	NOT USED					
16	NOT USED					
17	OPW	1TAG-4000	PRODUCT MARKER FOR MANHOLE COVER - DIESEL	2	GC	GC
18	OPW	15C-3112D	EDGE DOUBLE WALL SPILL CONTAINER W/SEALABLE COVER AND DRAIN	2	GC	GC
19	OPW	634TT-7085-EVR	4" TOP-SEAL CAP, PRODUCT FILL	2	GC	GC
20	OPW	61SALP-1020-EVR	4" SWIVEL ADAPTER, PRODUCT FILL	2	GC	GC
21	OPW	61SOC-4011	4" ALUMINUM DROP TUBE WITH OVERFLOW PREVENTION VALVE	2	GC	GC
22	NOT USED					
23	NOT USED					
24	OPW	233-4420	EXTRACTOR VENT FITTING - 4x4x2 (TANK #3)	1	GC	GC
25	OPW	233-4430	EXTRACTOR VENT FITTING - 4x4x3 (TANKS #1, #2)	2	GC	GC
26	NOT USED					
27	OPW	23-0033 23-0055	2" OPEN ATMOSPHERIC VENT (AT DEF) 3" OPEN ATMOSPHERIC VENT (AT DSL)	1 1	GC	GC
28	OPW	107-0300	NAMEPLATE HOLDER-CONTRACTOR TO MARK WITH TANK CAPACITY IN GALLONS	3	GC	GC
29	OPW	104A-1800	18" DIA MANHOLE WITH 12" SKIRT AND STEEL COVER	7	GC	GC
30	OPW	S-CR-FGK	FIBERGLASSING KIT	3	GC	GC
31	OPW	TSMF-4536CL	2-PC FIBERGLASS (COLLAR MOUNT) MEDIUM BURY TANK SUMP WITH COVER LATCH	3	GC	GC
32	OPW	RK-5000	RESIN KIT - TANK SUMP	3	GC	GC
33	OPW	61JSK-44CB	JACK SCREW ASSEMBLY - DROP TUBE LOCKDOWN	2	GC	GC
34	NOT USED					
35	OPW	62PMC-4	4" DIAMETER MONITOR WELL CAP	2	GC	GC
36	OPW	104AOW-1819	18" DIA MONITOR WELL MANHOLE WITH 19 1/4" SKIRT AND WATERIGHT BOLTED COVER	2	GC	GC
37	OPW	61SPVC-4000	4" DIA. 020" SLOTTED SCHEDULE 40 PVC MONITORING/OBSERVATION WELL PIPING - 13' LENGTH WITH BOTTOM PLUG	2	GC	GC
38	OPW	39CD-WT10	39 1/2" DIA POMECCO CONQUISTADOR COMPOSITE MANHOLE WITH 11" STEEL SKIRT, RECESSED HANDLE - BOLT DOWN - WATERTIGHT	3	GC	GC
39	NOT USED					
40	OPW	21BV-0200	2" BRASS BALL VALVE, FULL PORT (DSL)	4	GC	GC
41	GRAINGER	---	1.5" SS BALL VALVE, FULL PORT (DEF)	1	GC	GC
42	NOT USED					
43	OPW	REF-0075C REF-0150 REF-0200	CONDUIT ENTRY FITTING ASSEMBLY 1.5" FLEXWORKS DBL FLEXIBLY ENTRY BOOT 2" FLEXWORKS DBL FLEXIBLY ENTRY BOOT	30 12 6	GC	GC
44	NOT USED					
45	HOSE MASTER (FIRESHIELD)	FSM224-SS FSM1512-SS FSM212 FSM324	2" MXXM24" SS FLEX CONNECTOR (DEF VENT) 1.5" MXXM12" SS FLEX CONNECTOR (DEF VENT) 2" MXXM12" FLEX CONNECTOR (DSL EQUALIZATION) 3" MXXM24" FLEX CONNECTOR (DSL VENT)	1 1 1 1	GC	GC
46	OPW	FIT-3530 ITR-3020	3" X 30" FLEXIBLE ISOLATION JACKET (PKG) ITR-3020	2 1	GC	GC
47	NOT USED					
48	NOT USED					
49	OPW	10BFP-2002	2" 10 SERIES DBL POPPET EMER SHUT-OFF VALVE	2	GC	GC
50	OPW	10BFP-5726	1.5" 10 SERIES DBL POPPET EMER SHUT-OFF VALVE	6	GC	GC
51	OPW	SBK-1100J	STABILIZER BAR KIT	10	GC	GC
52	OPW	60V-DEF	1" D.E.F. SHEAR VALVE	2	GC	GC
53	OPW	DSF-1123F	WIDE ACCESS FIBERGLASS DISPENSER SUMP FOR "GASBOY" DISPENSERS - VERIFY EXACT MODEL NUMBERS WITH DISPENSERS USED	8	GC	GC
54	NOT USED					
55	NOT USED					
56	NOT USED					
57	NOT USED					
58	NOT USED					
59	OPW	7150-TOOL	7150 INSTALL TOOL	1	GC	GC
60	OPW	C15A DPC-2150A SMA-1515 C20A DCP-2200A SMA-2015 SMA-2020	1.5 IN FLEXIBLE DBL-WALL PRIMARY PIPING - FT 1.5 IN DBL-WALL PIPE COUPLING 1.5 IN NPSH TO 1.5 IN NPT ADAPTER 2 IN FLEXIBLE DBL-WALL PRIMARY PIPING - FT 2 IN DBL-WALL PIPE COUPLING 2 IN NPSH TO 1.5 IN NPT ADAPTER 2 IN NPSH TO 2 IN NPT ADAPTER	110 FT 10 10 300 FT 8 1 7	GC	GC
61	OPW	AXP40	4" FLEXIBLE ACCESS PIPING	410 FT	GC	GC

INSTALLATION NOTE:
SEE GEN NOTE 7 ON FI-101 AND KEYNOTE 15.808 ON FI-105 FOR SPECIFIC SETTINGS OF EQUIPMENT ITEM #21 OVERFILL PREVENTION DEVICE.

EQUIPMENT LIST						
EQUIP. NO.	MAKE	MODEL	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY
62	MORRISON BROS	305XPA-1100AK-EVR	CAP AND ADAPTER KIT (INTERSTITIAL)	2	GC	GC
63	OPW	FSA-400	FACE SEAL ADAPTER (AT ATG CAPS)	3	GC	GC
64	OPW	TCT-2509 TTT-2536	TEST JUMPER FOR COUPLING TO COUPLING TEST TUBE TERMINATION KIT	6 6	GC	GC
65	HARRIS INDUSTRIES	HU-02-6	6" BLK/YELLOW DETECTABLE UNDERGROUND TAPE IMPRINTED WITH: "CAUTION BURIED GAS LINE"	AS REQ'D	GC	GC
66	VEEDER-ROOT	846391-409 846400-014	D.E.F. IN-TANK PROBE, MAG PLUS 0.1 GPH NO WATER DETECTION - 10 FEET INSTALL KIT, MAG PLUS, 4 IN FLOAT 10 FT CABLE	1 1	GC	GC
67	VEEDER-ROOT	846391-109 846400-011	DSL IN-TANK PROBE, MAG PLUS 0.1 GPH NO WATER DETECTION - 10 FEET INSTALL KIT, MAG PLUS, 4 IN FLOAT 10 FT CABLE	2 2	GC	GC
68	VEEDER-ROOT	794380-208	NON-DISCRIMINATING STP/UDC SUMP SENSOR 12 FT CABLE	11	GC	GC
69	VEEDER-ROOT	794390-409	LIQUID ONLY INTERSTITIAL SENSOR	2	GC	GC
70	NOT USED					
71	VEEDER-ROOT	330020-012	UNIVERSAL SENSOR MOUNTING KIT (STP SUMPS)	3	GC	GC
72	VEEDER-ROOT	330020-282	CAP / RING KIT (INTERSTICE SENSOR)	2	GC	GC
73	ATLAS "GASBOY"	9850KX-DZ	MASTER DIESEL FRONT-LOAD DISPENSER (DOES NOT INCLUDE HOSE, NOZZLE, SWIVEL OR BREAKAWAY - OPTIONS: SS, SATELLITE PIPING, PULSE OUTPUT)	2	GC	GC
74	ATLAS "GASBOY"	9216K-Z	SATELLITE DIESEL FRONT-LOAD DISPENSER (DOES NOT INCLUDE HOSE, NOZZLE, SWIVEL OR BREAKAWAY - OPTIONS: SS)	2	GC	GC
75	ATLAS "GASBOY"	9853KX-DFZ	MASTER (REFER) DIESEL FRONT-LOAD DISPENSER (DOES NOT INCLUDE HOSE, NOZZLE, SWIVEL OR BREAKAWAY)	2	GC	GC
76	ATLAS "GASBOY"	9862KX-Z	"COLD WEATHER" D.E.F. FRONT-LOAD DISPENSER WITH INTERNAL HOSE RETRACTOR (DOES NOT INCLUDE HOSE, NOZZLE, SWIVEL OR BREAKAWAY - OPTIONS: SS, PULSE OUTPUT)	2	GC	GC
77	DIXON	8BV25	1/4" BRASS BALL VALVE, INCLUDES FITTINGS AND COPPER TUBING PETROLEUM MARKETERS EQUIPMENT (CONTACT: MIKE WILSON 1-800-364-9037)	2	GC	GC
78	VEEDER ROOT	312020-952	CAP AND RING KIT (ATG RISER)	3	GC	GC
79	SMITH FIBERCAST AMERON	RED THREAD 3000L	FIBERGLASS VENT PIPING AND ALL FITTINGS FOR INSTALLATION AND TESTING	AS REQ'D	GC	GC
80	MISC		MISCELLANEOUS STEEL PIPE AND FITTINGS PETROLEUM MARKETERS EQUIPMENT (CONTACT: MIKE WILSON 1-800-364-9037)	AS REQ'D	GC	GC
81	NOT USED					
82	RED JACKET	P200U-RJ2	SUBMERGED TURBINE PUMP - 2 HP, 208-230V 60 HZ SINGLE PHASE - SUITABLE FOR BLEND CONCENTRATIONS OF FUEL (DIESEL)	2	GC	GC
83	RED JACKET	123-039-5	VACUUM BREAKER	2	GC	GC
84	RED JACKET	11605B-5	MECHANICAL LINE LEAK DETECTOR FXIDV - DIESEL	2	GC	GC
85	RED JACKET	410151-001	SIPHON CARTRIDGE KIT	1	GC	GC
86	BLUE DIVER BD-1200	60119850 60119854	SUBMERGED TURBINE PUMP - 1 HP 115V/1 PH/60 HZ FOR DIESEL EXHAUST FLUID (D.E.F.) BYPASS ASSEMBLY W/ CHECK VALVE (REQ'D)	1 1	GC	GC
87	POWER INTEGRITY	IA-ESOCA	EMERGENCY FUEL STOP OPERATOR, SINGLE PUSH BUTTON OPERATOR WITH COVER, NO/NC CONTACTS	2	GC	GC
88	VEEDER ROOT	860091-301 333545-001 333149-001 332812-001	TLS-450 PLUS W/ INTEGRAL PRINTER TLS-450 PLUS OPERATING SYSTEM AND ATG FUNCTIONALITY SOFTWARE ACCUCHART II/BR EDIM (16) UNIVERSAL SENSOR/PROBE INTERFACE MODULE	1 1 1 2	GC	GC
89	NOT USED					
90	ASHCROFT	4CFJ5	3 1/2" DIAL STAINLESS STEEL SOCKET, LIQUID FILLED VACUUM GAUGE, 30 TO 0" HG VAC PETROLEUM MARKETERS EQUIPMENT (CONTACT: MIKE WILSON 1-800-364-9037)	1	GC	GC

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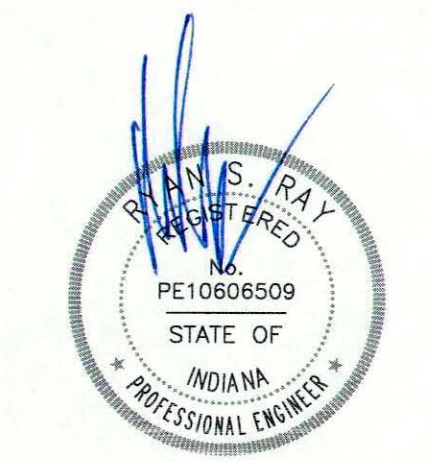
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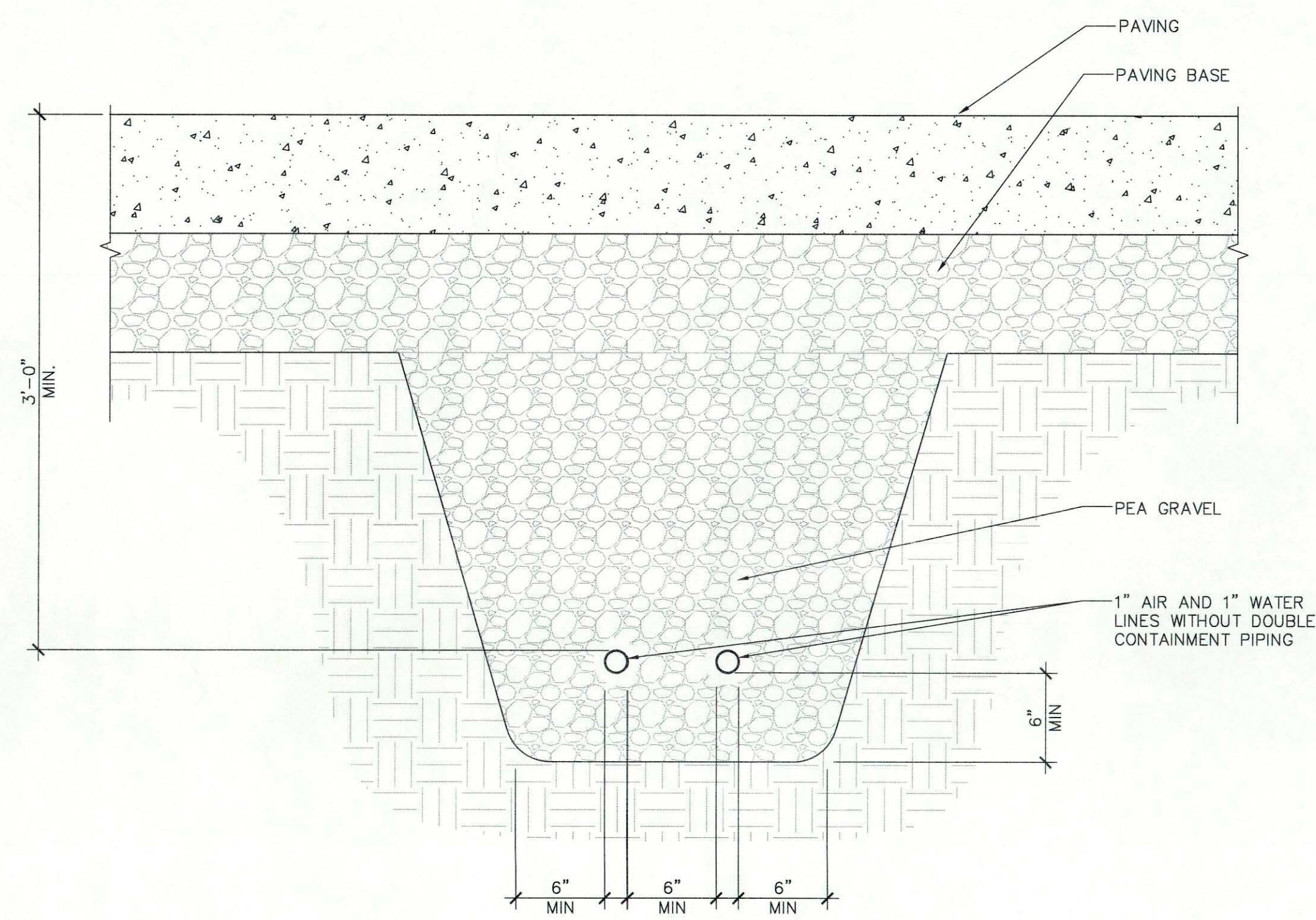
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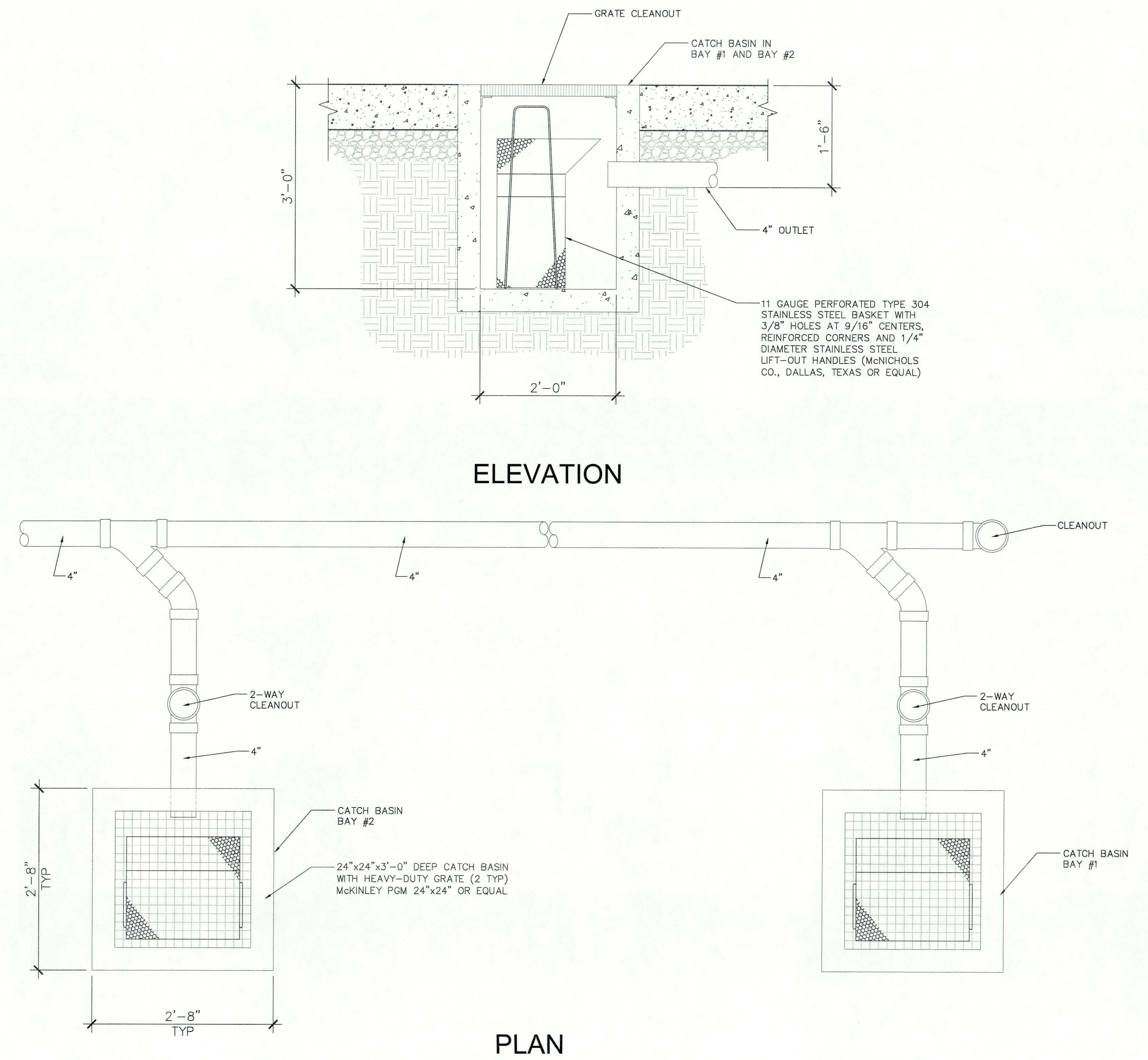
FUEL ISLAND
EQUIPMENT
SCHEDULES

SHEET:
FI-106

Mar 13, 2017 - 4:11pm - USER pin
 C:\Users\50-16-30001\My Documents\Fuel\Sheets\070 - FI-107 FUEL ISLAND CATCH BASIN DETAILS - 7390.dwg



2 FUEL ISLAND UTILITY TRENCH BACKFILL
 1 1/2" = 1'-0"
 FI-107 DTL 2



1 CATCH BASIN DETAIL AT FUEL ISLAND
 1" = 1'-0"
 FI-107 DTL 1

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**FUEL ISLAND
 CATCH
 BASIN AND
 UTILITY
 TRENCH
 DETAILS**

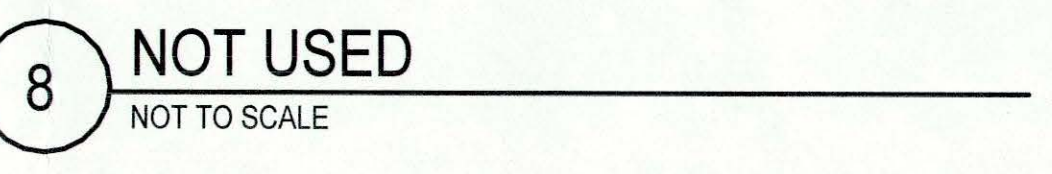
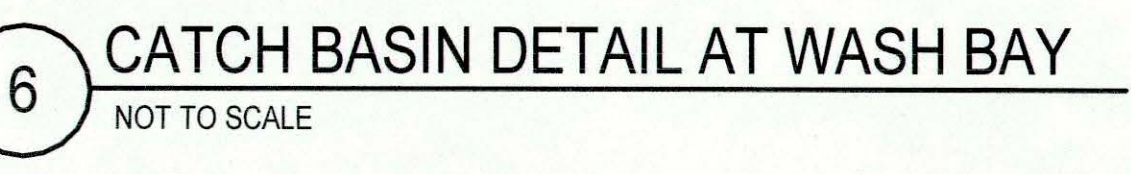
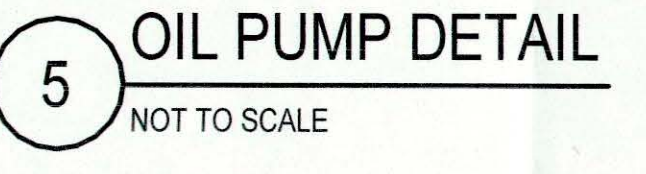
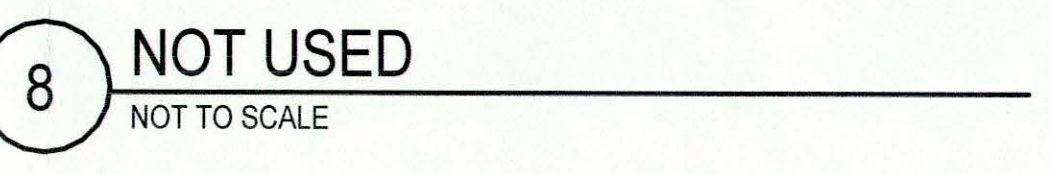
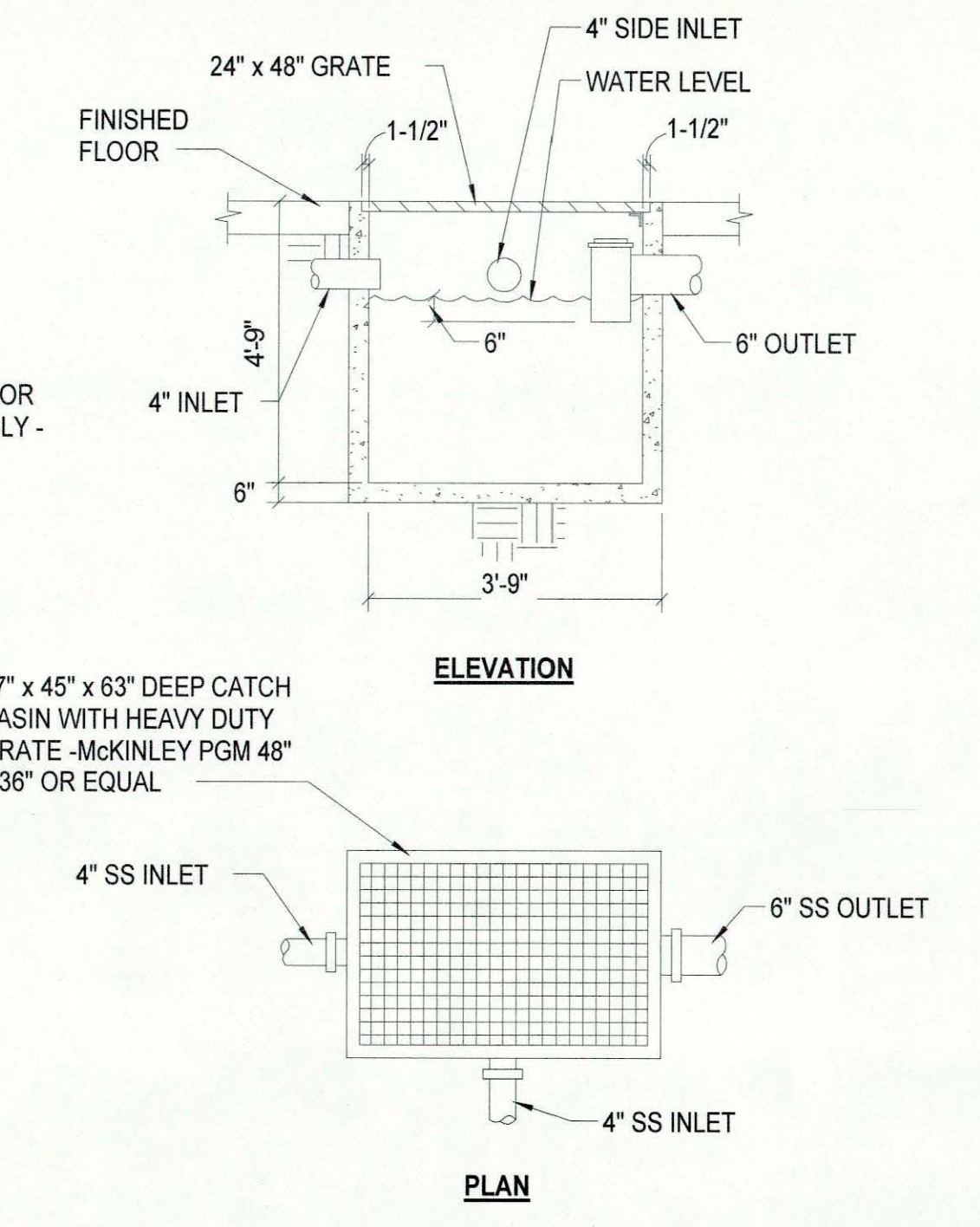
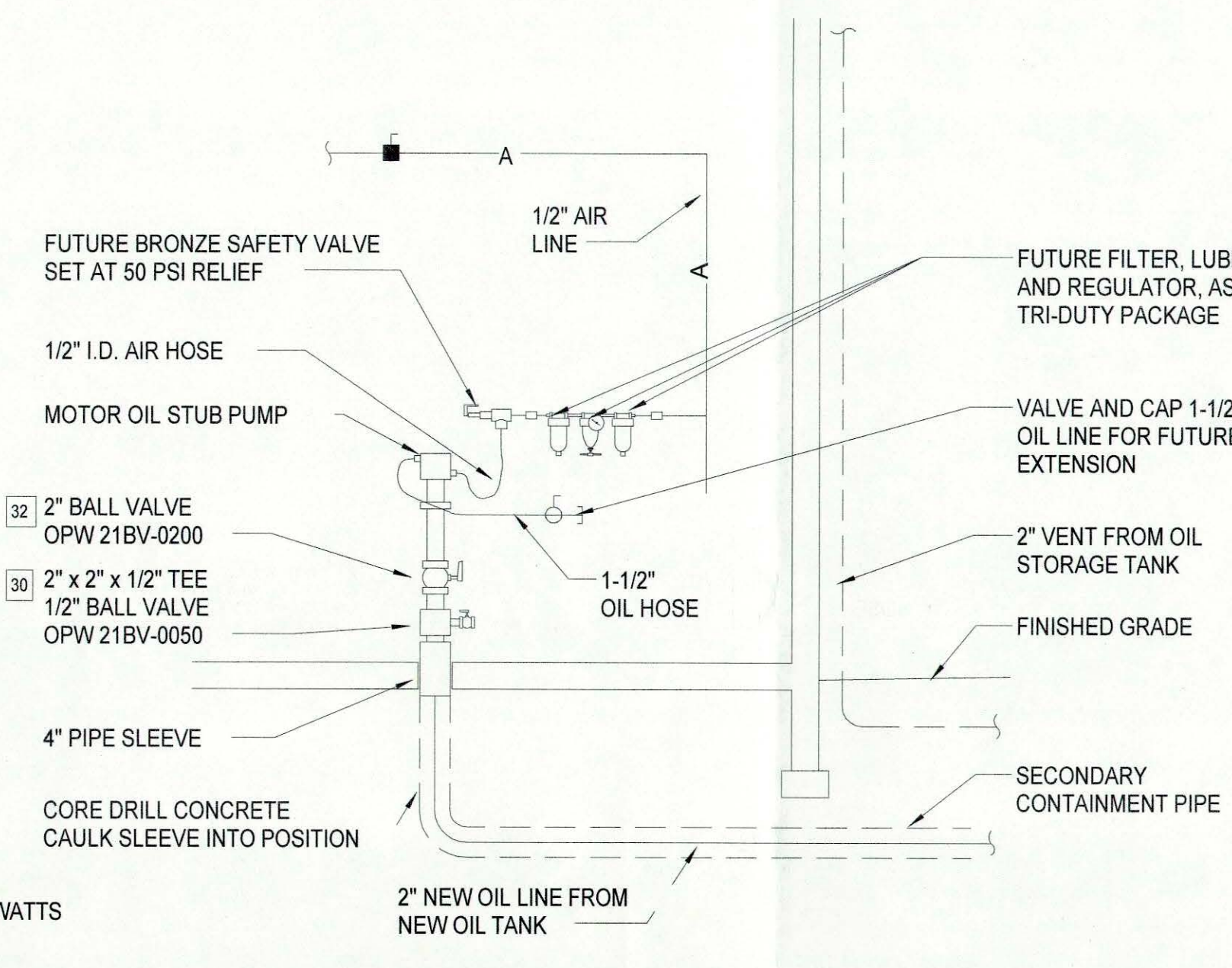
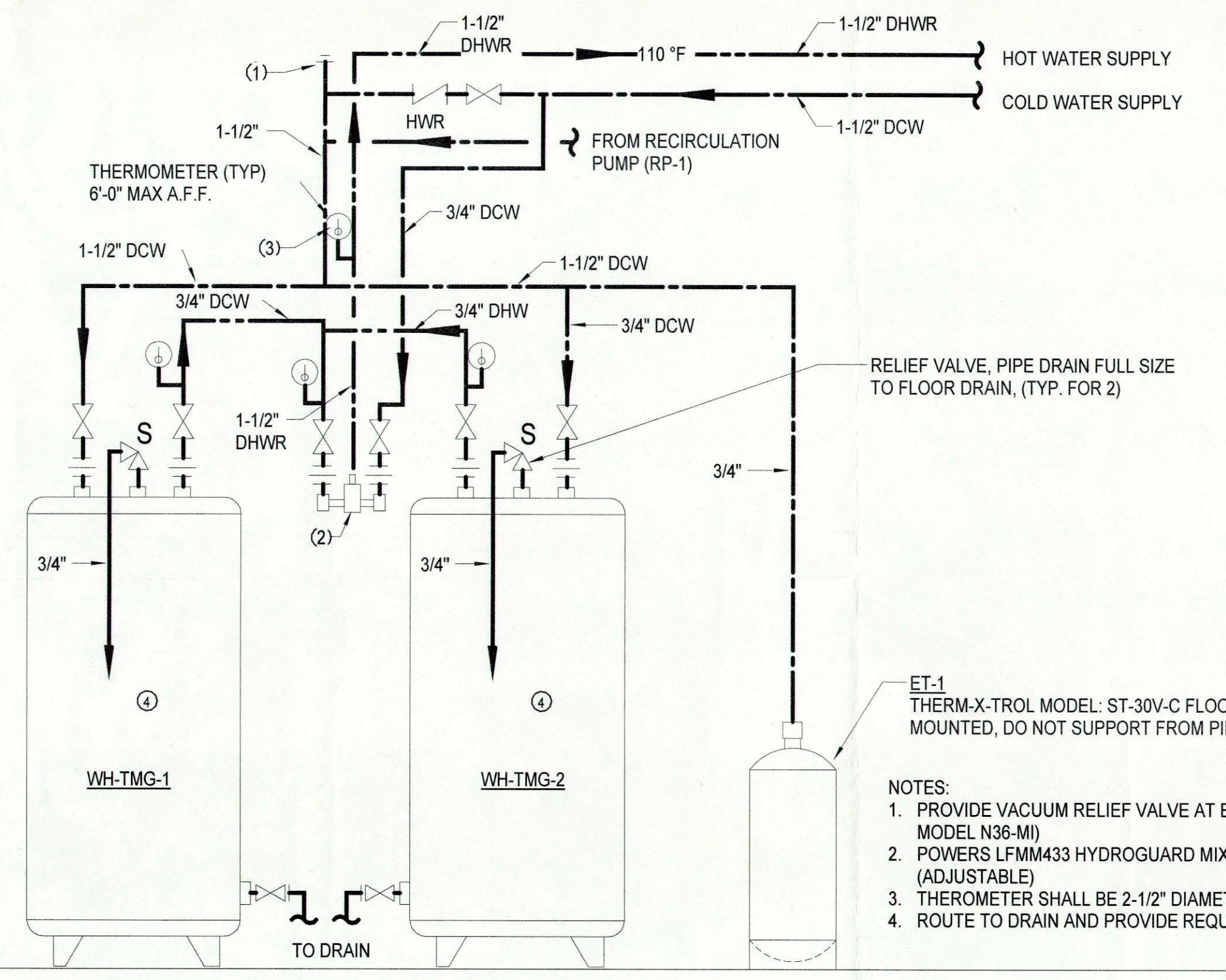
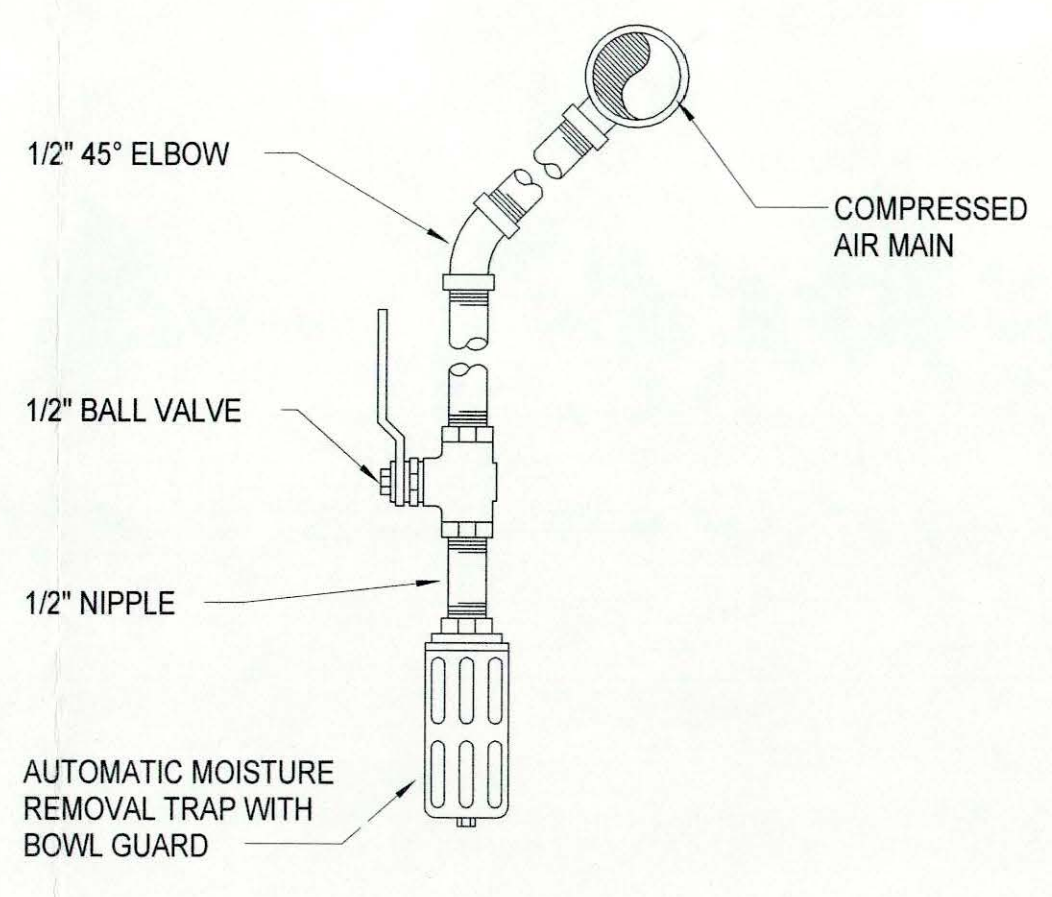
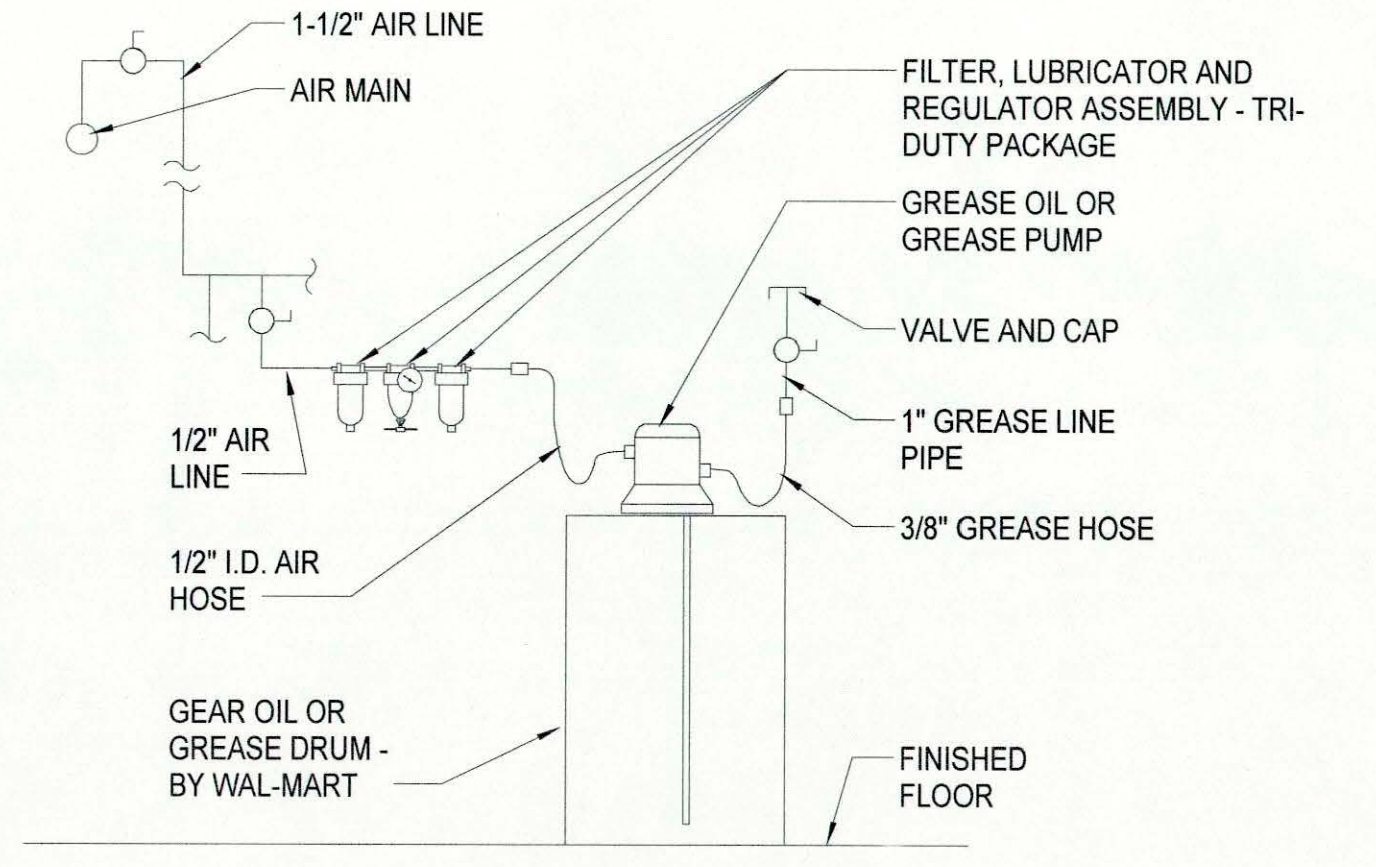
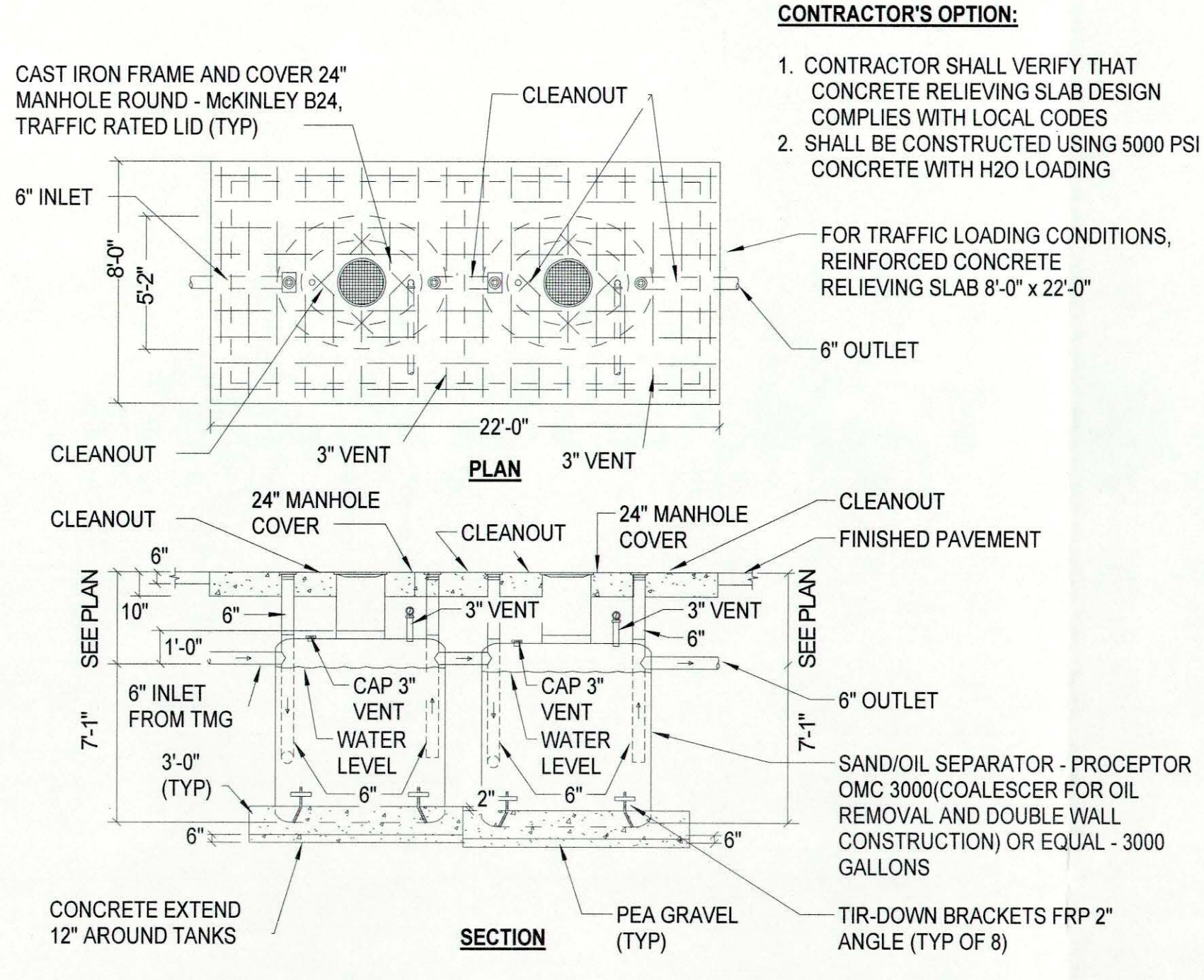
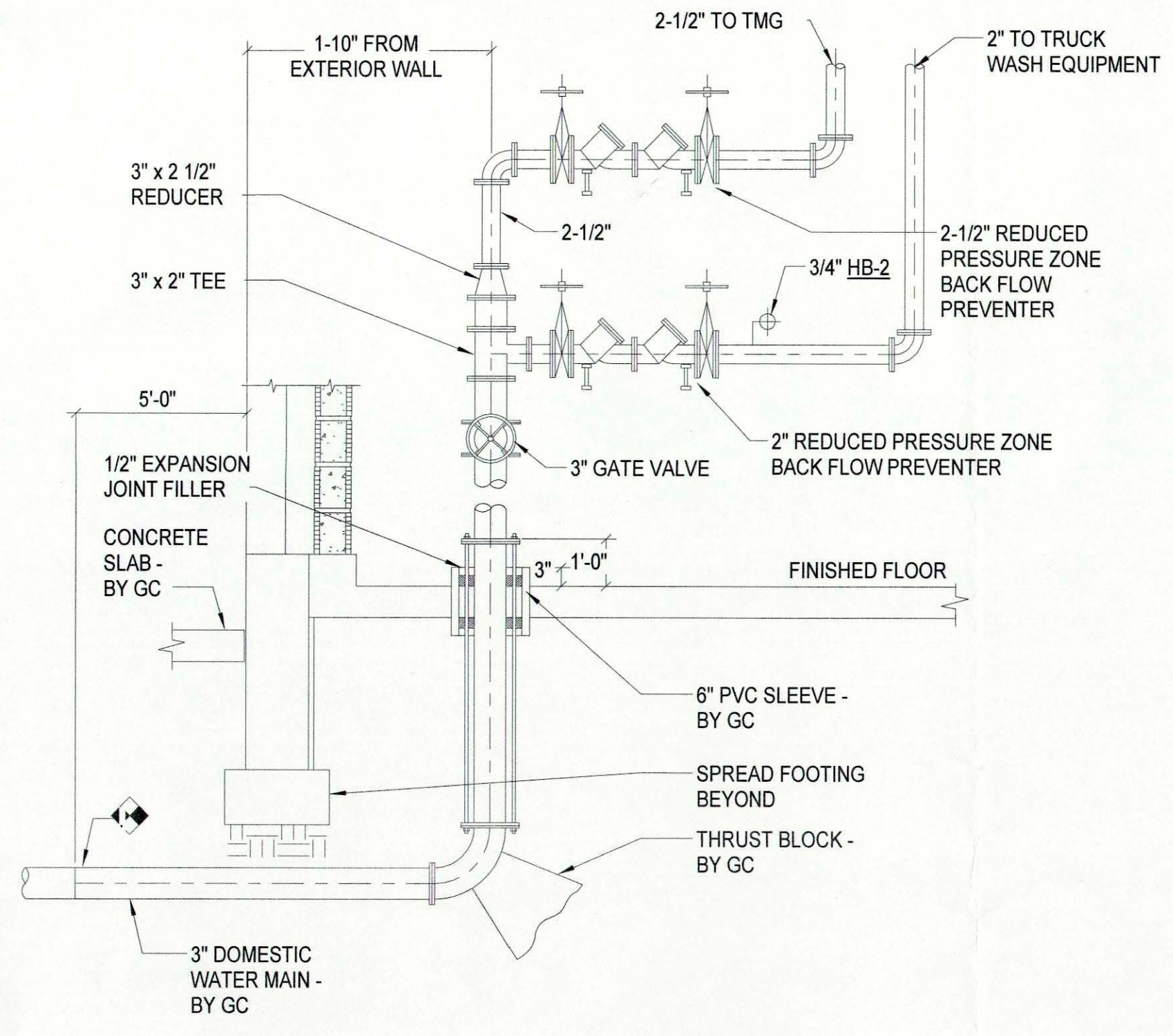
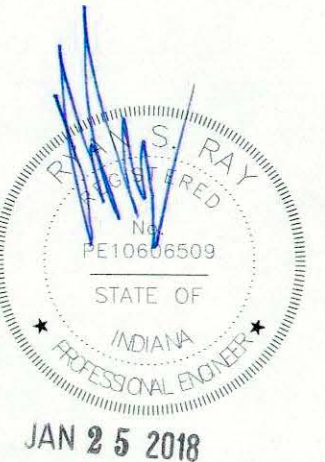
SHEET:
FI-107

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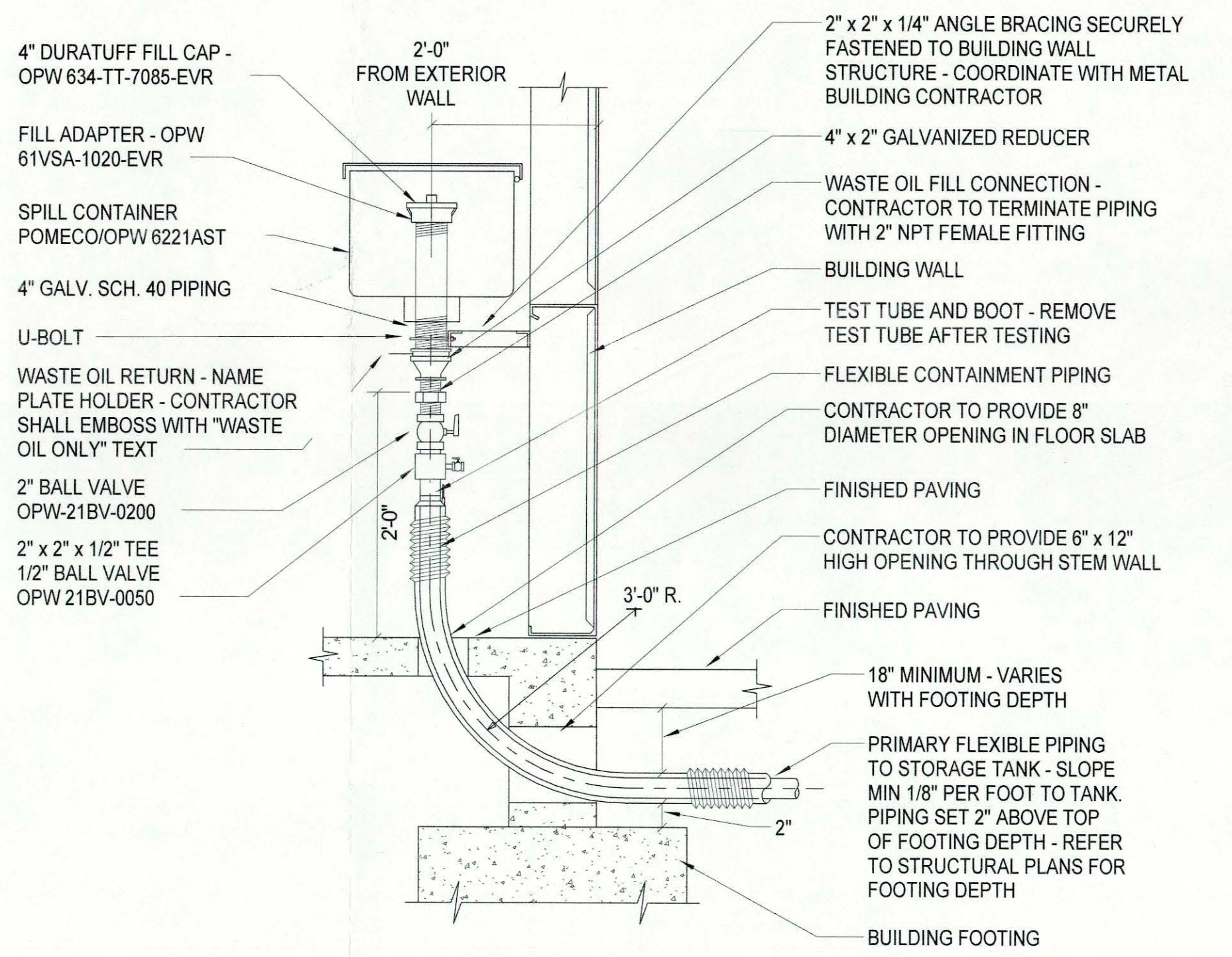
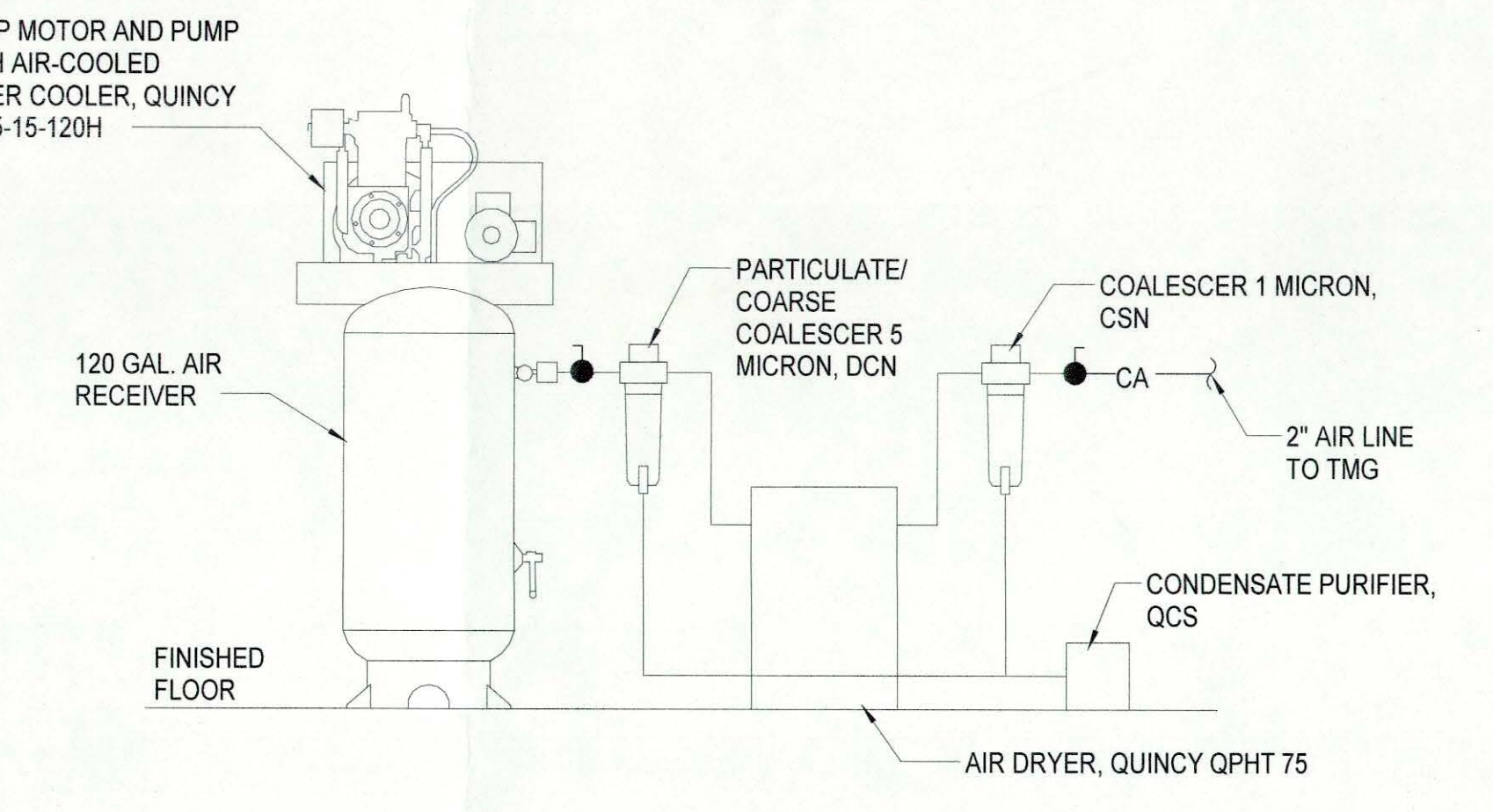
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ISSUE: 01B / PERMIT



MARK	SERVICE	RECOVERY GPH @ XX °F RISE	STORAGE CAPACITY (GALLONS)	TEMPERATURE IN (°F)	TEMPERATURE OUT (°F)	INPUT (MBH)	ELECTRICAL	EFFICIENCY	MANUFACTURER	MODEL	NOTES
WH-TMG-01	TMG	233 @ 100 °F	90	---	---	199,999	120V/60Hz/1φ	96%	LOCHNIVAR	SNA201-100	1,2,3,4
WH-TMG-02	TMG	233 @ 100 °F	90	---	---	199,999	120V/60Hz/1φ	96%	LOCHNIVAR	SNA201-100	1,2,3,4

- NOTES:**
- PROVIDE "BELL & GOSSETT" SERIES 100, HOT WATER RECIRCULATING PUMP, 5 GPM @ 6 FT OF HEAD, 115 VAC, 1φ.
 - PROVIDE WITH COMBUSTION AIR DUCT, VENT FLUE AND CONCENTRIC VENT KIT. VENTILATE THROUGH ROOF. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS.
 - PROVIDE WITH CONDENSATION NEUTRALIZATION KIT AND ROUTE FULL SIZED DRAIN LINE TO FLOOR DRAIN ADJACENT TO WATER HEATER.
 - WATER HEATER SHALL OPERATE ON NATURAL GAS.



9 AIR COMPRESSOR DETAIL
NOT TO SCALE

10 WASTE OIL FILL DETAIL
NOT TO SCALE

SEPARATION FOR REUSE
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WALMART - #7390
FLUID MILK FACILITY
Fort Wayne, Indiana

JOB NUMBER: 50-18-3001

REVISION BLOCK

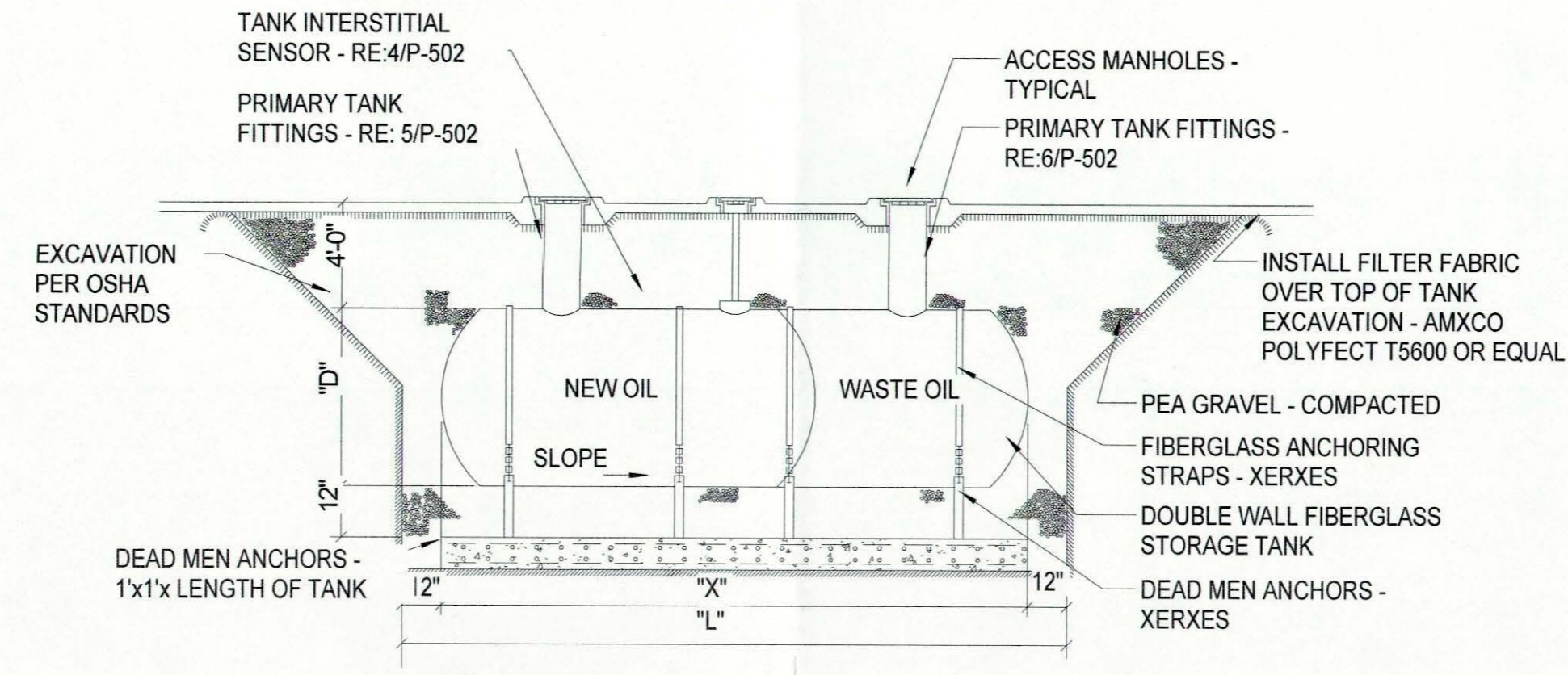
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ISSUE: 01B / PERMIT



PLUMBING
DETAILS

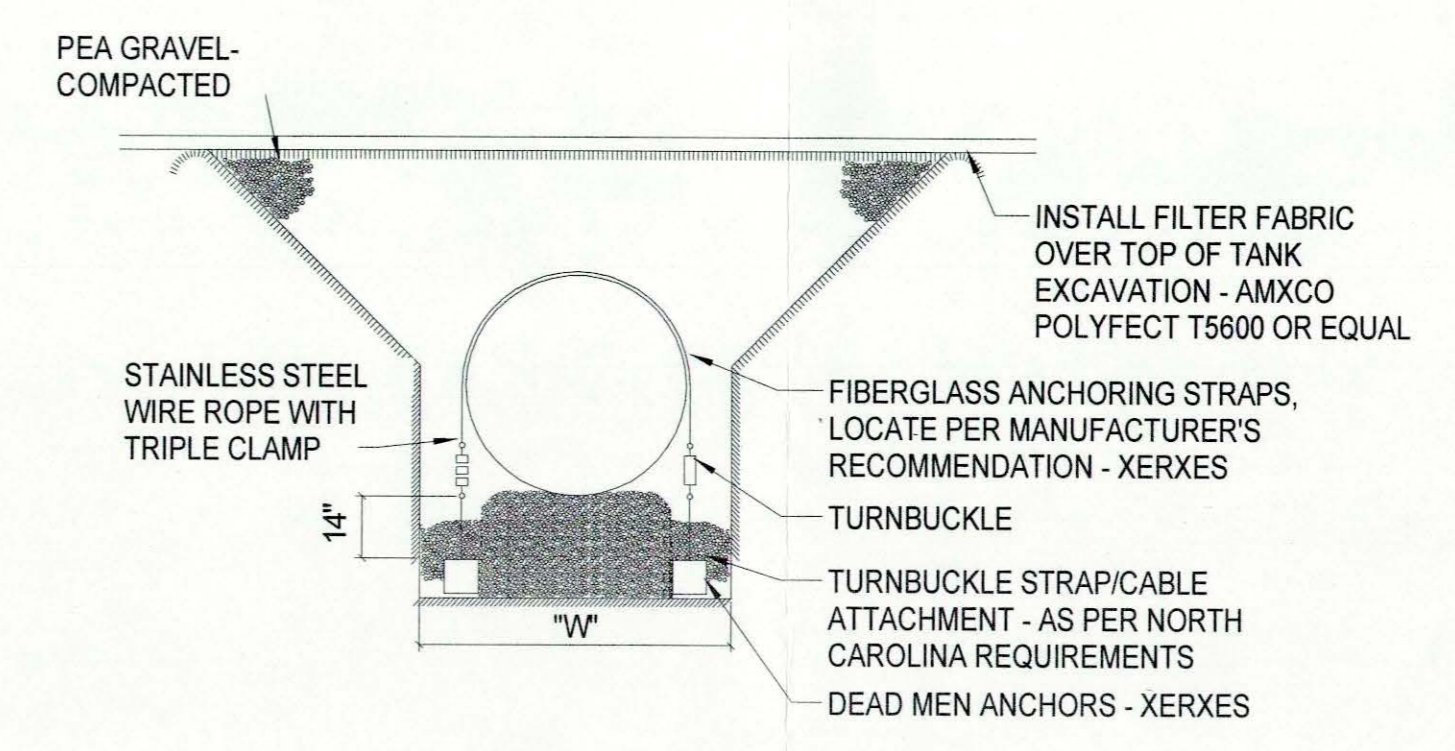
SHEET:
P-502



UNDERGROUND STORAGE SCHEDULE

MARK	SERVICE	NOMINAL CAPACITY	DIMENSIONS				NUMBER OF STRAPS	REMARKS
			"D"	"X"	"L"	"H"		
NO-WO-1	NEW/WASTE OIL	6,000/3,000	8'-0"	28'-11"	30'-11"	10'-0"	4	2 COMPARTMENT TANK

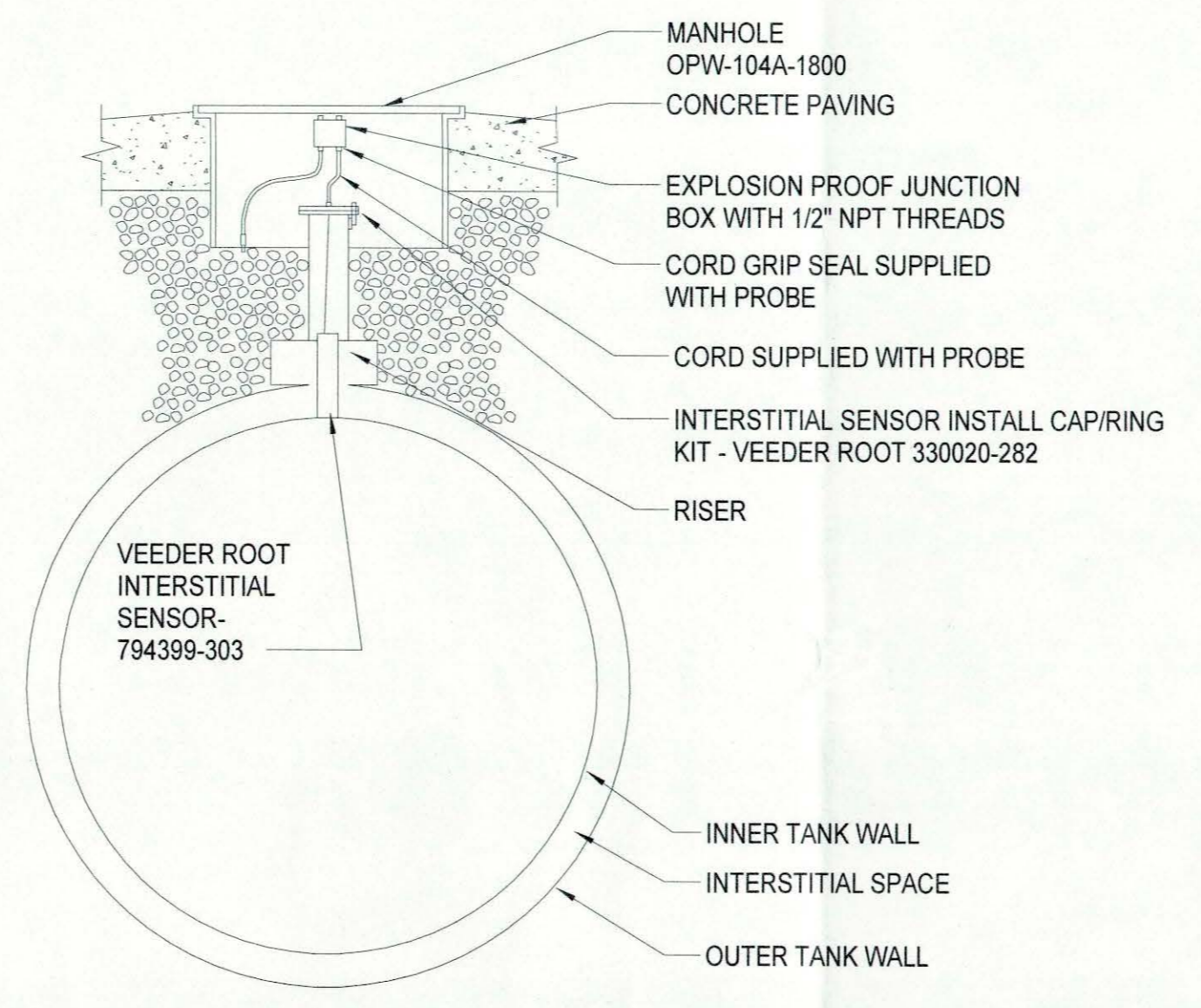
1 COMBINED NEW/OLD OIL TANK ELEVATION
NOT TO SCALE



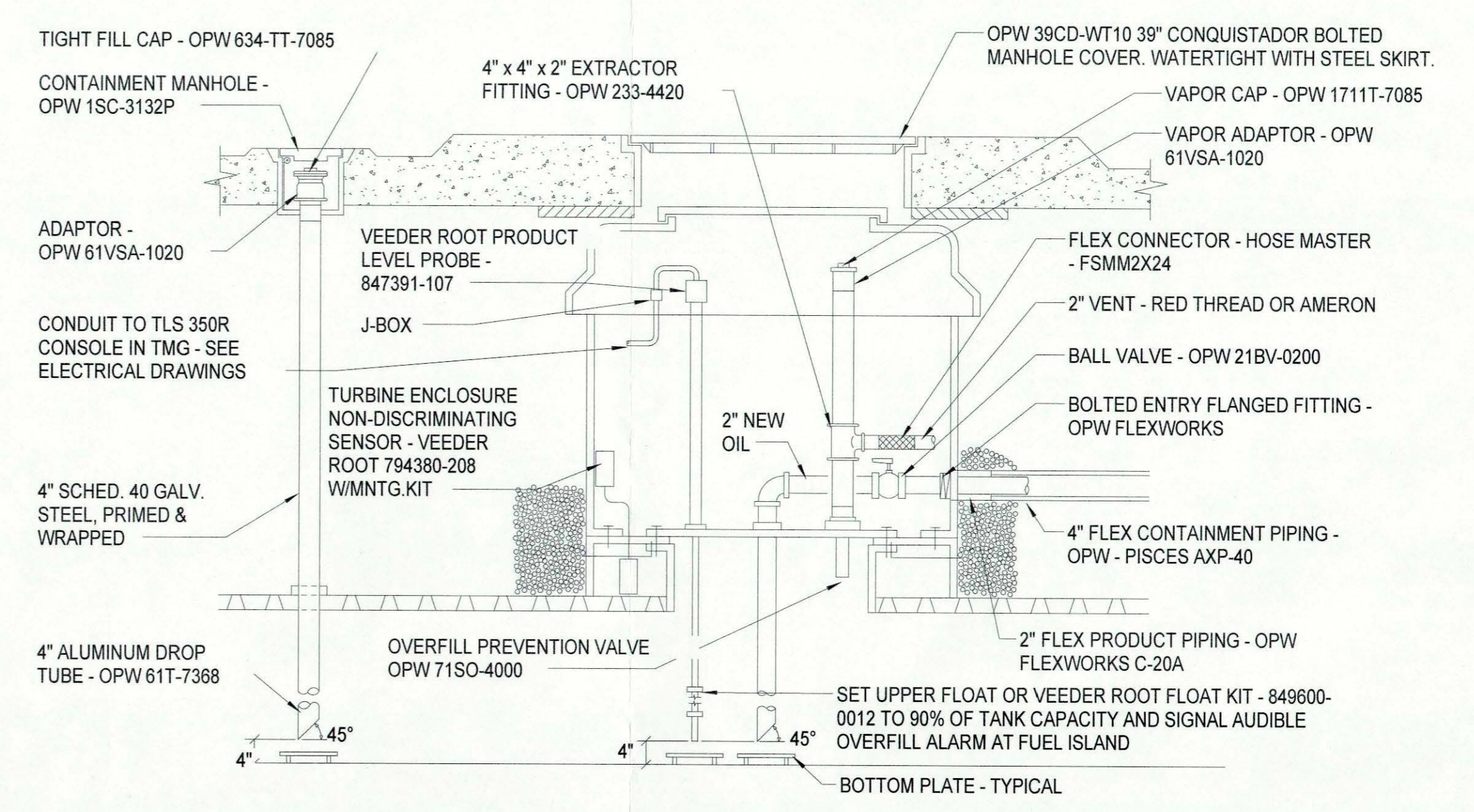
TANK ANCHORING SCHEDULE

TYPE	TANK DIAMETER	REBAR ANCHOR SIZE		TURNBUCKLE DIAMETER			WIRE ROPE SIZE
		SIZE	SPAN	HOOK	JAW	EYE	
NO/WO-1	8'-0"	#6	5'	3/4"	3/4"	3/4"	3/8" 6 x 19

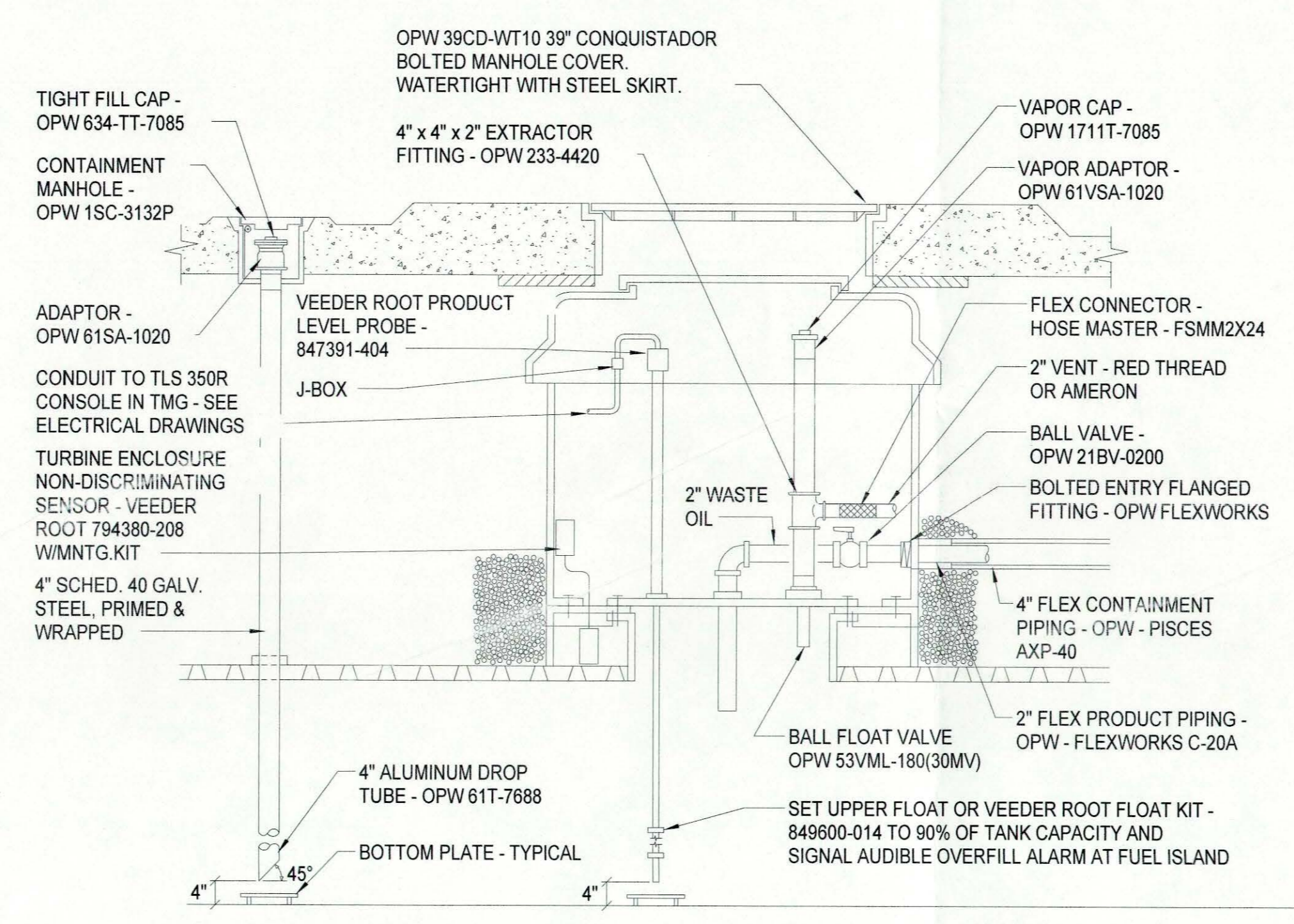
2 TANK ANCHORING ARM
NOT TO SCALE



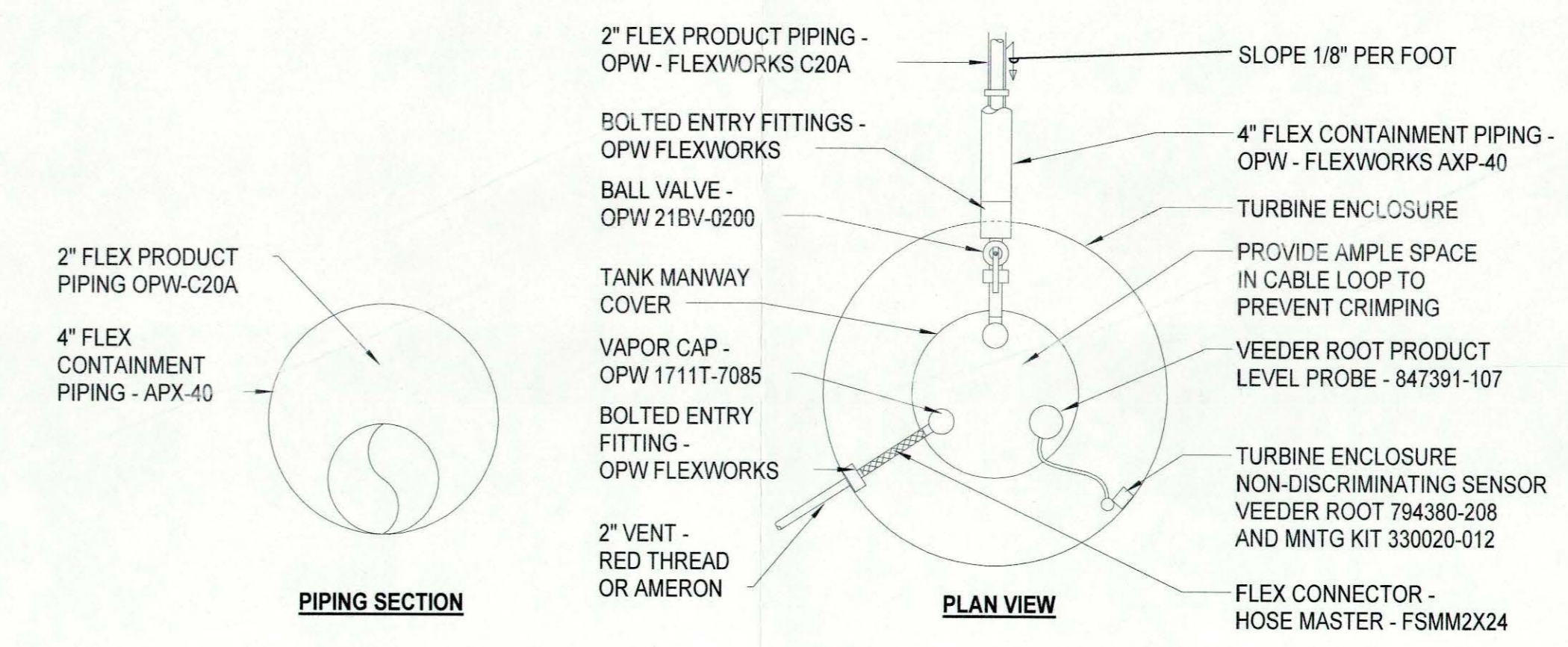
4 TANK INTERSTITIAL SENSOR
NOT TO SCALE



5 NEW OIL - SECTION AT PRIMARY TANK FITTINGS
NOT TO SCALE



6 WASTE OIL - SECTION AT PRIMARY TANK FITTINGS
NOT TO SCALE



7 OIL TURBINE ENCLOSURE DETAIL
NOT TO SCALE

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ISSUE BLOCK	
NO.	DESCRIPTION
4	06/30/17 CCDS

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DRAWING NOTES:

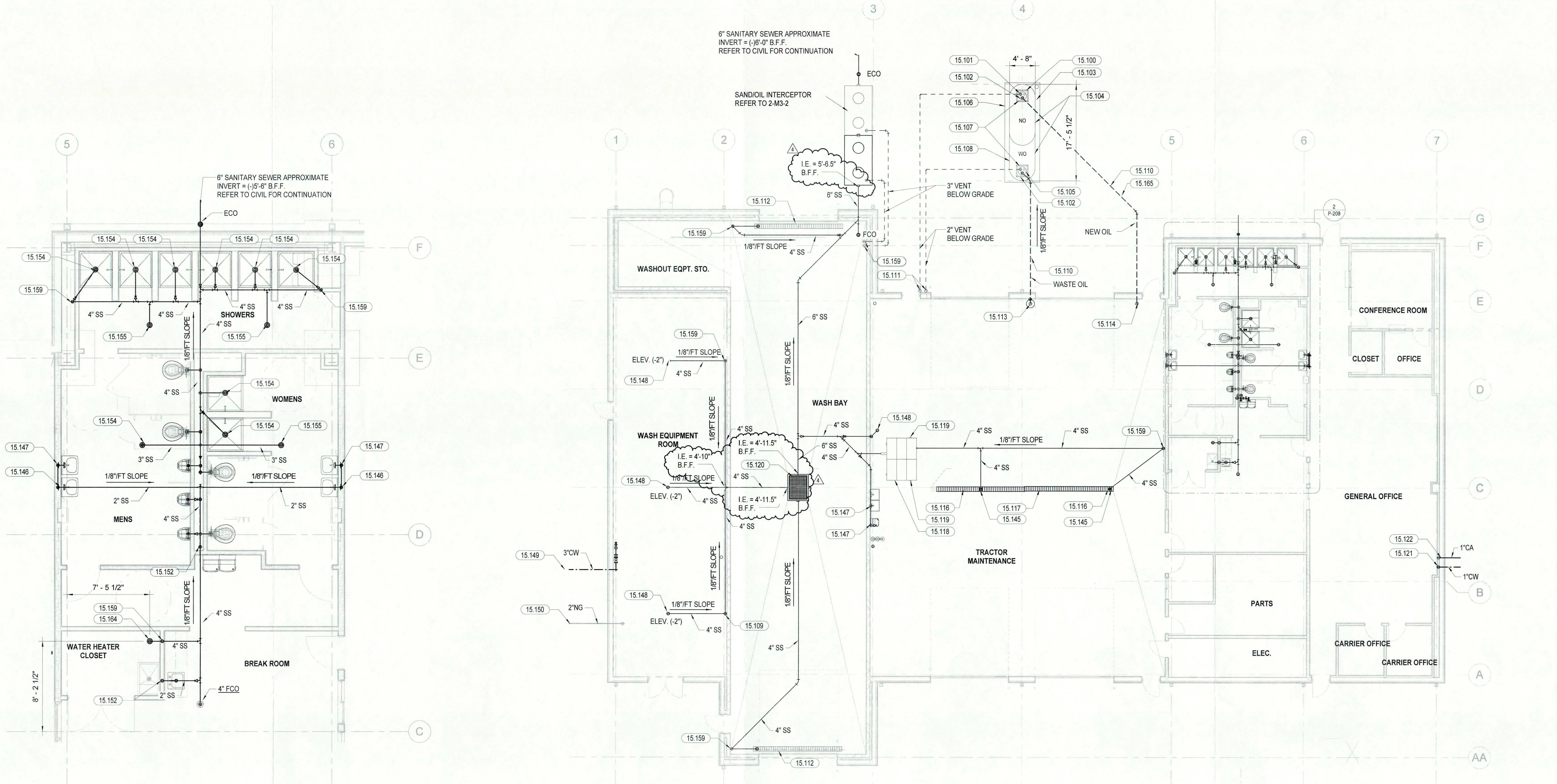
- REFER TO RISER DIAGRAMS ON SHEETS P-702 & P-703 FOR ADDITIONAL INFORMATION.
- REFER TO SHEETS P-501 & P-502 FOR DETAILS.
- ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS WITH 4" WATER SEAL.
- ACTUAL FINISHED FLOOR ELEVATION FOR TMG PLAN IS 613.90'. DATUM FINISHED FLOOR ELEVATION IS 00.00'.
- PROVIDE ALL PIPING, VALVES AND PIPE SUPPORTS TO COMPLETE THE TRUCK WASH SYSTEM.
- ALL UNDERFLOOR PIPING SHALL BE CPVC UNLESS OTHERWISE NOTED.

PLUMBING KEYNOTES

Key Value	Keynote Text
15.100	FILL OPENING AND VAPOR RECOVERY OPENING - TYPICAL.
15.101	PRODUCT LEVEL PROBE.
15.102	TURBINE ENCLOSURE - REFER TO DETAIL 6/P-501 FOR DETAIL.
15.103	6,000 GALLON NEW OIL COMPARTMENT UNDERGROUND STORAGE TANK NO-1 - REFER TO 1/P-502 FOR DETAIL.
15.104	9,000 GALLON DOUBLE COMPARTMENT TANK.
15.105	WASTE OIL GRAVITY LINE TERMINATION.
15.106	DEAD MAN ANCHORS - BY GENERAL CONTRACTOR. REFER TO 1B/P-502 AND 2/P-502 FOR DETAIL.
15.107	PRODUCT LEVEL PROBE ASSEMBLY - COORDINATE WITH THE GENERAL CONTRACTOR.
15.108	3,000 GALLON WASTE OIL COMPARTMENT - UNDERGROUND STORAGE TANK REFER TO 1/P-502 AND 2/P-502 FOR DETAILS.
15.109	2" VENT UP THROUGH FLOOR.
15.110	2" PRODUCT AND 4" CONTAINMENT PIPING BELOW GRADE.
15.111	2" OIL TANK VENT EXTENDED TO A MAXIMUM OF 7'-0" ABOVE ROOF. PROVIDE TITEFLEX STANDARD R272 STAINLESS STEEL BRAIDED TEFLON CONNECTION AND OPW PISCES FJ-3035 FLEX ISOLATION JACKET BELOW GROUND AND TERMINATE WITH OPW 523V-1100 VENT CAP.
15.112	PRE-SLOPED TRENCH DRAIN (TOP OF GRATE @ FIN. FL.)
15.113	OIL SPILL CONTAINER OPW 6221 AST 4" DURATUFF FILL CAP WITH ADAPTOR - OPW 634-TT-7085 & OPW 615A-1010. REFER TO 10/P-501.
15.114	MOTOR OIL STUB PUMP. REFER TO 5/P-501.

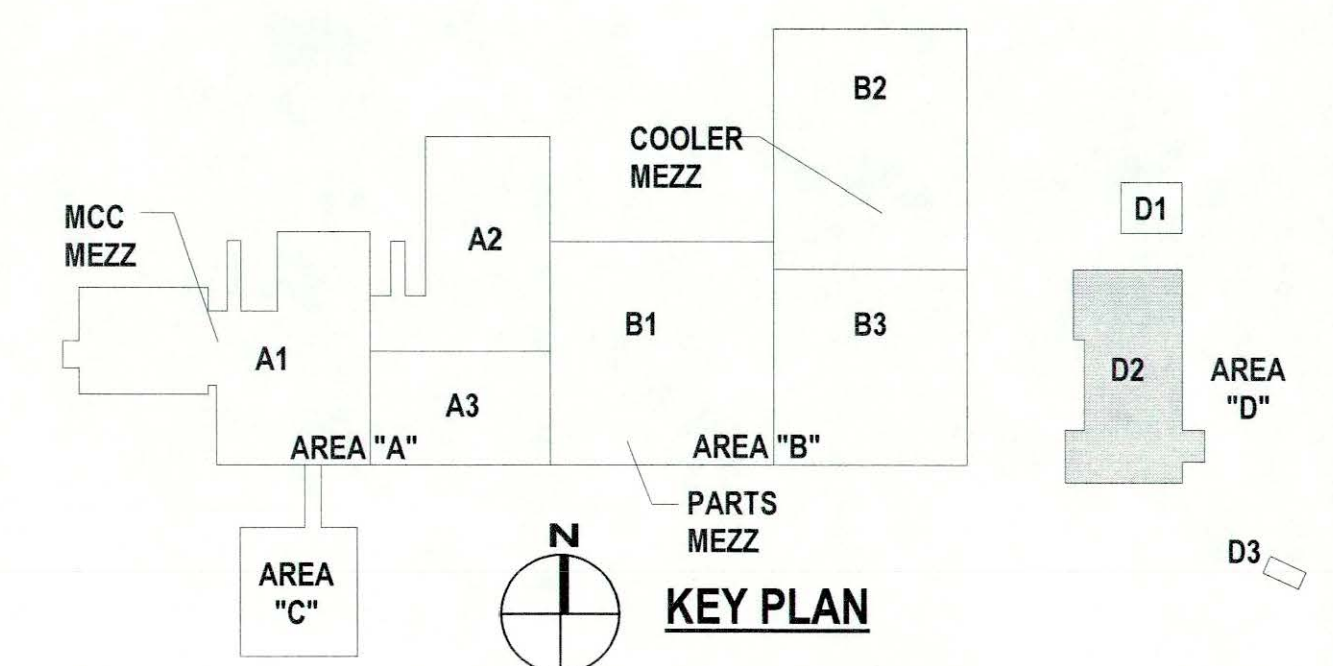
PLUMBING KEYNOTES

Key Value	Keynote Text
15.116	INSIDE BOTTOM OF TRENCH AT -0'6" APPROX.
15.117	PRE-SLOPED TRENCH DRAIN TOP OF GRATE - 3" B.F.F.
15.118	FLAMMABLE LIQUIDS SEPARATOR - ROCKFORD MODEL OST-5652-300 WITH 300 GALLON WASTE OIL STORAGE AND REMOVEABLE FILTER SCREENS AND SEDIMENT BASKET. PROVIDE WITH HEAVY-DUTY TRAFFIC RATED COVERS.
15.119	CAP UNUSED VENT OPENING.
15.120	TOP OF GRATE @ 3" B.F.F. REFER TO 7/P-501.
15.121	1" COLD WATER DOWN IN WALL, BELOW SLAB TO FUEL ISLAND @ 3'-0" B.F.F. REFER TO FUELING DRAWINGS FOR CONTINUATION.
15.122	1" COMPRESSED AIR DOWN IN WALL, BELOW SLAB TO FUEL ISLAND @ 3'-0" B.F.F. REFER TO FUELING DRAWINGS FOR CONTINUATION.
15.134	3" VENT UP WALL TO VTR, TYPICAL (2) PLACES.
15.145	4" TRENCH DRAIN NO. TD-3.
15.146	2" WASTE AND VENT WITH WALL CLEANOUT.
15.147	2" WASTE AND VENT.
15.148	4" FLOOR DRAIN NO. FD-3. (EQUIPMENT ROOMS)
15.149	3" DOMESTIC COLD WATER FROM SITE MAIN. REFER TO CIVIL FOR CONTINUATION.
15.150	2" GAS LINE REFER TO CIVIL DRAWINGS FOR CONTINUATION.
15.152	2" WASTE FROM ABOVE.
15.154	3" FLOOR DRAIN NO. FD-1. (GENERAL USE)
15.155	4" FLOOR DRAIN NO. FD-1. (GENERAL USE)
15.159	3 VENT UP THROUGH FLOOR.
15.164	4" FLOOR DRAIN NO. FD-2. (CONDENSATE (FLOOR SINK))
15.165	PROVIDE HEAT TRACE AND INSULATION ON THE EXTERIOR OF THE CONTAINMENT PIPE IN ACCORDANCE WITH DIVISION 15 AND 16 SPECIFICATIONS.



2 TMG ENLARGED UNDERFLOOR PLUMBING PLAN
1/4" = 1'-0"

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



UNDERFLOOR PLUMBING PLANS - TMG BUILDING

SHEET: P-200