



1. USE EMERGENCY STOP BUTTON.
2. REPORT ACCIDENT BY CALLING (SPECIFY LOCAL FIRE NUMBER) ON THE PHONE. REPORT LOCATION.

SIGNS SHALL BE CONSPICUOUSLY POSTED ON SIDES OF EACH DISPENSER IN THE DISPENSING AREA AND INCORPORATE THE ABOVE OR EQUIVALENT WORDING

IT IS UNLAWFUL AND DANGEROUS TO DISPENSE GASOLINE INTO
UNAPPROVED CONTAINERS.
NO SMOKING.
STOP MOTOR.
NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR
VEHICLE.
PLACE CONTAINER ON GROUND BEFORE FILLING.
DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY
TOUCHING A METAL SURFACE AWAY FROM THE NOZZLE.
DO NOT RE-ENTER YOUR VEHICLE WHILE GASOLINE IS
FILLING.
IF A FIRE STARTS, DO NOT REMOVE NOZZLE --- BACK AWAY
IMMEDIATELY.
DO NOT ALLOW INDIVIDUALS UNDER LICENSED AGE TO USE THE
PUMP.

SIGNS SHALL BE CONSPICUOUSLY POSTED ON SIDES OF EACH DISPENSER IN THE DISPENSING AREA AND INCORPORATE THE ABOVE OR EQUIVALENT WORDING

1. ALL PETROLEUM EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE NEW, INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE MANUFACTURER'S INSTRUCTIONS.
2. ALL TANK AND PIPING INSTALLATION WORK IS TO BE PERFORMED BY A STATE REGISTERED POLLUTANT STORAGE SPECIALTY CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE GA STATE, COUNTY, MUNICIPAL REQUIREMENTS AND THE FOLLOWING REFERENCE STANDARDS:

NATIONAL FIRE PROTECTION ASSOCIATION:
 FIRE CODE
 30 FLAMMABLE AND COMBUSTIBLE LIQUID CODE 2012 EDITION
 30A MOTOR FUEL DISPENSING FACILITIES & REPAIR GARAGE 2012
 329 UNDERGROUND LEAKAGE OF FLAMMABLE & COMBUSTIBLE LIQUIDS
 70 NATIONAL ELECTRIC CODE, 2017 EDITION

AMERICAN PETROLEUM INSTITUTE:
 1615 INSTALLATION OF UNDERGROUND PETROLEUM STORAGE SYSTEMS
 1604 RECOMMENDED PRACTICE FOR ABANDONMENT OR
 REMOVAL OF USED U.G. STORAGE TANKS

PETROLEUM EQUIPMENT INSTITUTE:
 RP100 RECOMMENDED PRACTICES FOR INSTALLATION OF U.G.
 LIQUID STORAGE TANKS

1. N.E.C. ARTICLE 500 & 514 CONDITIONS FOR HAZARDOUS AREAS AND FUEL DISPENSING FACILITIES APPLY.
2. PROVIDE EXPLOSION PROOF SEALS-OFFS IN ACCORDANCE WITH ARTICLES 500, 501 AND 514 (CLASS 1, DIVISION 1 & 2) NATIONAL ELECTRICAL CODE TYPICAL FOR ALL CONDUITS IN CLASS 1 LOCATIONS, INCLUDING LOW VOLTAGE CONDUITS.
3. ALL CONDUITS IN CLASS 1 LOCATIONS SHALL BE GROUNDED AS PER NEC. 250.101 & 501.30.

1. CASHIER/ATTENDANT'S VIEW OF DISPENSING AREA SHALL REMAIN UNOBSTRUCTED & ONE ATTENDANT SHALL BE ON DUTY AT ALL TIMES PER NFPA 30A, 9.4.2.
2. NEW NOZZLES TO BE EQUIPPED WITH AUTOMATIC SHUT-OFFS PER CONSISTENT WITH NFPA 30A, 9.6.1.
3. NFPA 30A, 9.2.5.2/NFPA 10 HIGH FLOW FIRE EXTINGUISHER: AMEREX MODEL NO. 760, 4.4-60B-G, 20 LBS CAPACITY OR EQUAL ARE PROVIDED WITHIN 100 FT OF ALL DISPENSING PUMPS & FILL PIPE OPENINGS.
4. EMERGENCY CONTROLS ARE PROVIDED AT LOCATION AS PER NFPA 30A, 6.7 (NOT MORE THAN 100 FT FOR ATTENDED SELF-SERVICE DISPENSING AREA & MORE THAN 20 FT BUT LESS THAN 100 FT FOR UNATTENDED).
5. NFPA 30A, 9.2.5.4: "NO SMOKING...TURN OFF ENGINE" SIGNAGE IS PROVIDED @ EA. FUEL ISLAND.
6. NFPA 30A, 9.5.3: "EMERGENCY INSTRUCTIONS" SIGNAGE IS PROVIDED @ EA. FUEL ISLAND, SEE COPY BELOW.
7. THE AUTHORITY HAVING JURISDICTION SHALL BE GIVEN ADVANCE NOTIFICATION OF THE TIME AT WHICH ACCEPTANCE TESTS FOR ALL SAFETY-RELATED PORTS OF CONTROL EQUIPMENT ARE TO BE PERFORMED SO THAT THE AUTHORITY CAN WITNESS THE TEST, PER NFPA 1, 4.5.6.b.

1. NEW UNDERGROUND PRODUCT PIPING TO BE SMITH RED THREAD II A D/W F/G, U.N.O.
2. PRODUCT LINES AND VENT LINES TO SLOPE MIN. 1/8" PER FOOT DOWN TO UNDERGROUND TANKS.
3. NEW FIBERGLASS PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR PIPE INSTALLATION, DESIGN DETAILS & SPECIFICATIONS AS SHOWN ON THESE DRAWINGS.

1. TANKS TO BE KERXES DOUBLE-WALL FIBERGLASS UL-1316. SEE SHEETS T4.1 FOR CALL-OUT.
2. TANKS TO BE INSTALLED IN ACCORDANCE WITH NFPA 30, CHAPTER 23 AND MANUFACTURER'S REQUIREMENTS FOR INSTALLATION DESIGN DETAILS AS SHOWN ON THESE DRAWINGS.



DATE	DESCRIPTION
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[illegible]

ANVIL BLOCK

ELLENWOOD
GEORGIA
4443 DUNN COURT

1478

2011 BR-RH-M90 0801

NO MODIFICATIONS APPLIED

MODIFICATIONS APPLY

SPB NO. 1022 **DATE** 06/06/00

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

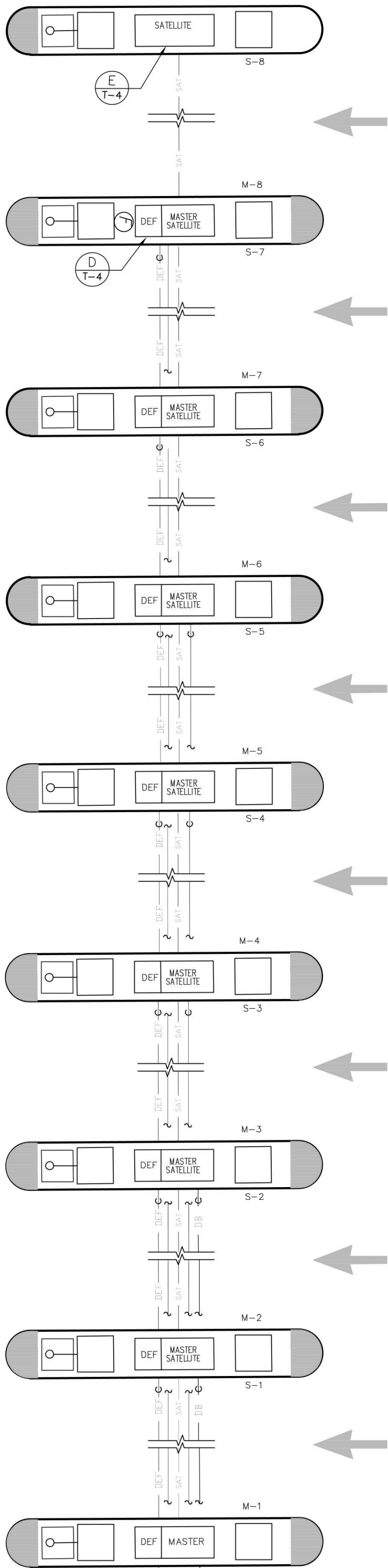
Digitally signed by
Richard R Morris
Date: 2021.03.22
16:43:33-04'00'

21056

TRUCK FUELING SITE PLAN

T0.0

ISSUED FOR CONSTRUCTION



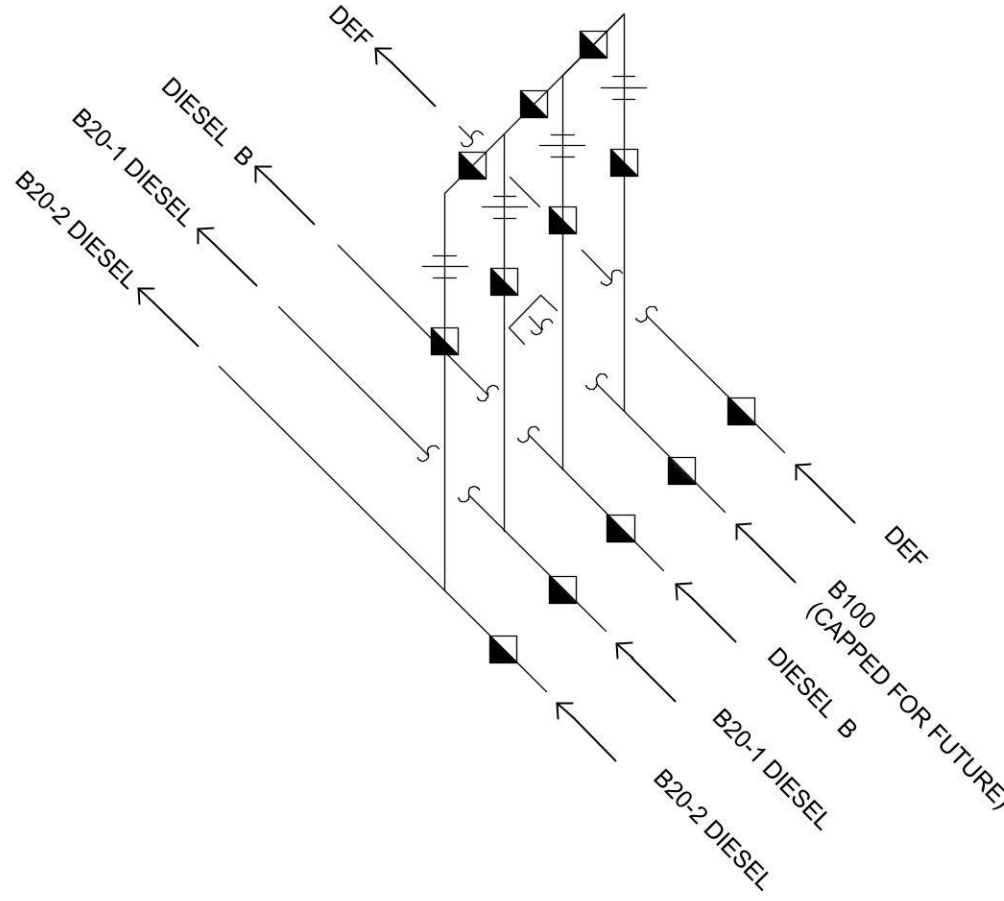
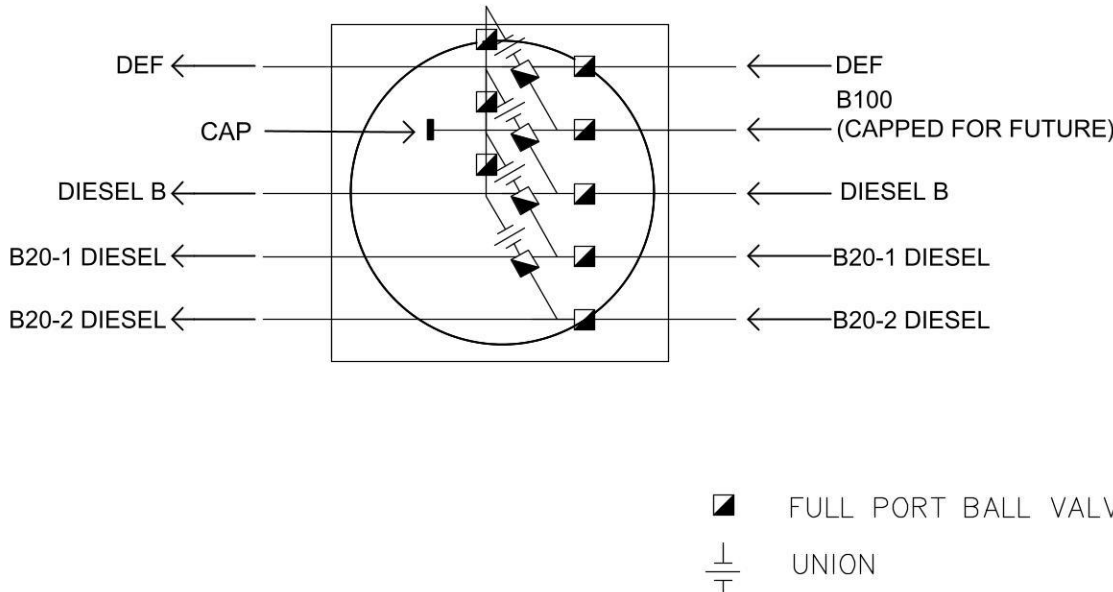
- RFS — REMOTE FILL PIPING, 4" S/W F/G
- R — REGULAR, 2"/3" D/W F/G*
- P — PREMIUM, 2"/3" D/W F/G*
- DA — DIESEL, 2"/3" D/W F/G *
- DB — DIESEL, 2"/3" D/W F/G*
- E85 — E85, 2"/3" D/W F/G *
- VR — VAPOR RECOVERY, 3" S/W F/G
- S — SIPHON, 2/3" D/W F/G *
- FUS — FUTURE USE SIPHON, 2/3" D/W F/G *
- V — VENT, 3" S/W F/G
- M — VAPOR MANIFOLD, 3" S/W F/G
- B20-1 — B-20 DIESEL, TANK 1, 2"/3" D/W F/G *
- B20-2 — B-20 DIESEL, TANK 2, 2" D/W F/G *
- B100 — B-100 DIESEL, TANK 1, 2" D/W F/G *
- DEF — DEF, 2"/3" D/W F/G *
- SAT — MASTER/SATELLITE CONNECTOR, 2"/3" D/W F/G
- * 2" PRIMARY/3" SECONDARY

- (P) SUBMERGED TURBINE PUMP
- (A) ANNULAR SPACE MONITOR
- (B) UNUSED BUNG
- (F) DIRECT FILL
- (RF) REMOTE FILL
- (E) EXTRACTOR ASSEMBLY
- (V) STAGE 1 VAPOR RECOVERY STUB
- (S) MANIFOLD SIPHON
- (T) TANK LEVEL MONITOR
- (M) MONITORING WELL (WHERE REQUIRED)
- (FE) NFPA 30A, 9.2.5.2/NFPA 10 HIGH FLOW FIRE EXTINGUISHER; AMEREX MODEL NO. 760, 4A:60B:C, 20 LBS CAPACITY OR EQUAL, ARE PROVIDED WITHIN 100 FT OF ALL DISPENSING PUMPS & FILL PIPE OPENINGS..
- FULL PORT BALL VALVE
- ⊥ UNION

SHIFT TRANSITION SUMPS AS NEEDED TO ALIGN PRODUCT PIPING

PETROLEUM CONTRACTOR MUST PROVIDE AN ACCURATE, DETAILED AS-BUILT OF THE SYSTEM.

ALL PRODUCT PIPING TO BE SMITH RED THREAD IIA D/W F/G, U.N.O.



(E T1.1) PIPING CROSS @ TRANSITION SUMP N.T.S.

TRUCK DISPENSER LAYOUT / SCHEMATIC PRODUCT PIPING

1/4"=1'-0"

MATCH LINE SHEET RT-T1.0

RaceTrac

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DESIGN PROFESSIONALS

PLANS PREPARED BY:

MDM

engineering • environmental • construction

2151 W HILLSBORO BLVD. STE 401, DEERFIELD BEACH, FL 33442

FL CA #004857 (954) 427-3076

ISSUE/REVISION RECORD

DATE DESCRIPTION

RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE
SUITE 900
ATLANTA, GEORGIA 30339
(770) 431-7600

PROJECT NAME

ANVIL BLOCK

ELLENWOOD
GEORGIA
4443 DUNN COURT

RACETRAC PROJECT NUMBER

1478

PLAN SERIES

2011 BR-RH-M90 0801

PLAN MODIFICATION NOTICE

■ NO MODIFICATIONS APPLIED

□ MODIFICATIONS APPLY

SPB NO. N/A DATE N/A

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PROFESSIONAL SEAL



Digitally signed by Richard R. Morris
Date: 2021.03.22 16:43:38-04'00'

RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER

21056

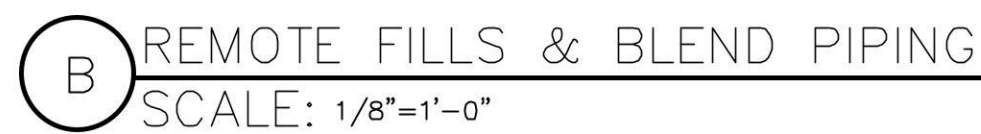
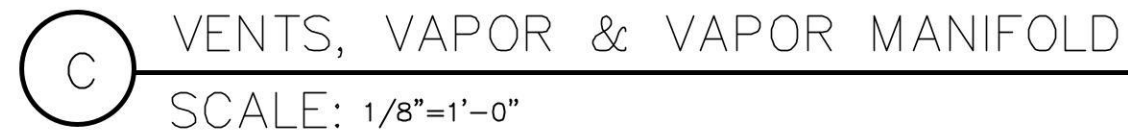
SHEET TITLE & NUMBER

TRUCK FUELING
TANK & PIPING
LAYOUT

FILE NUMBER

T1.1

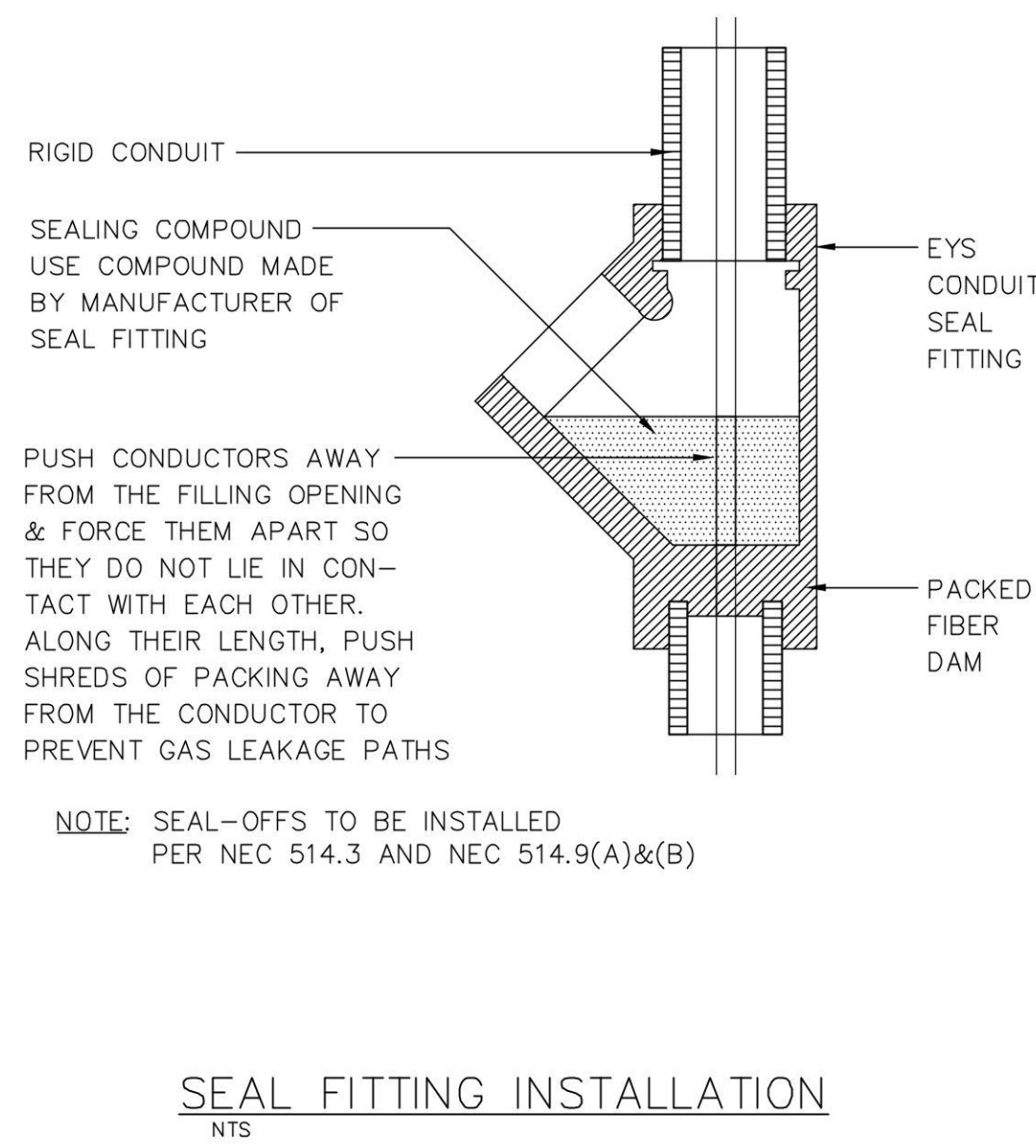
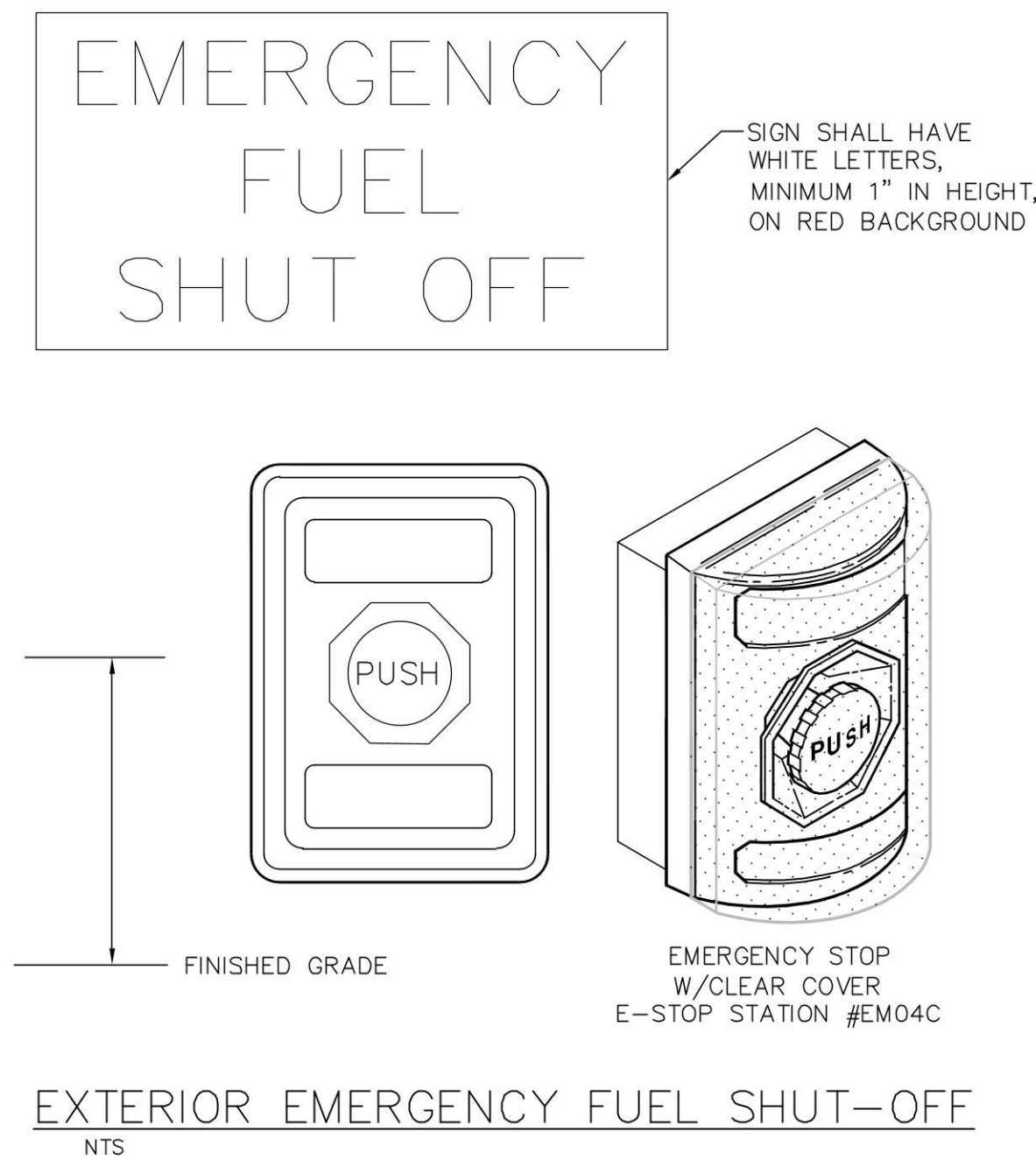
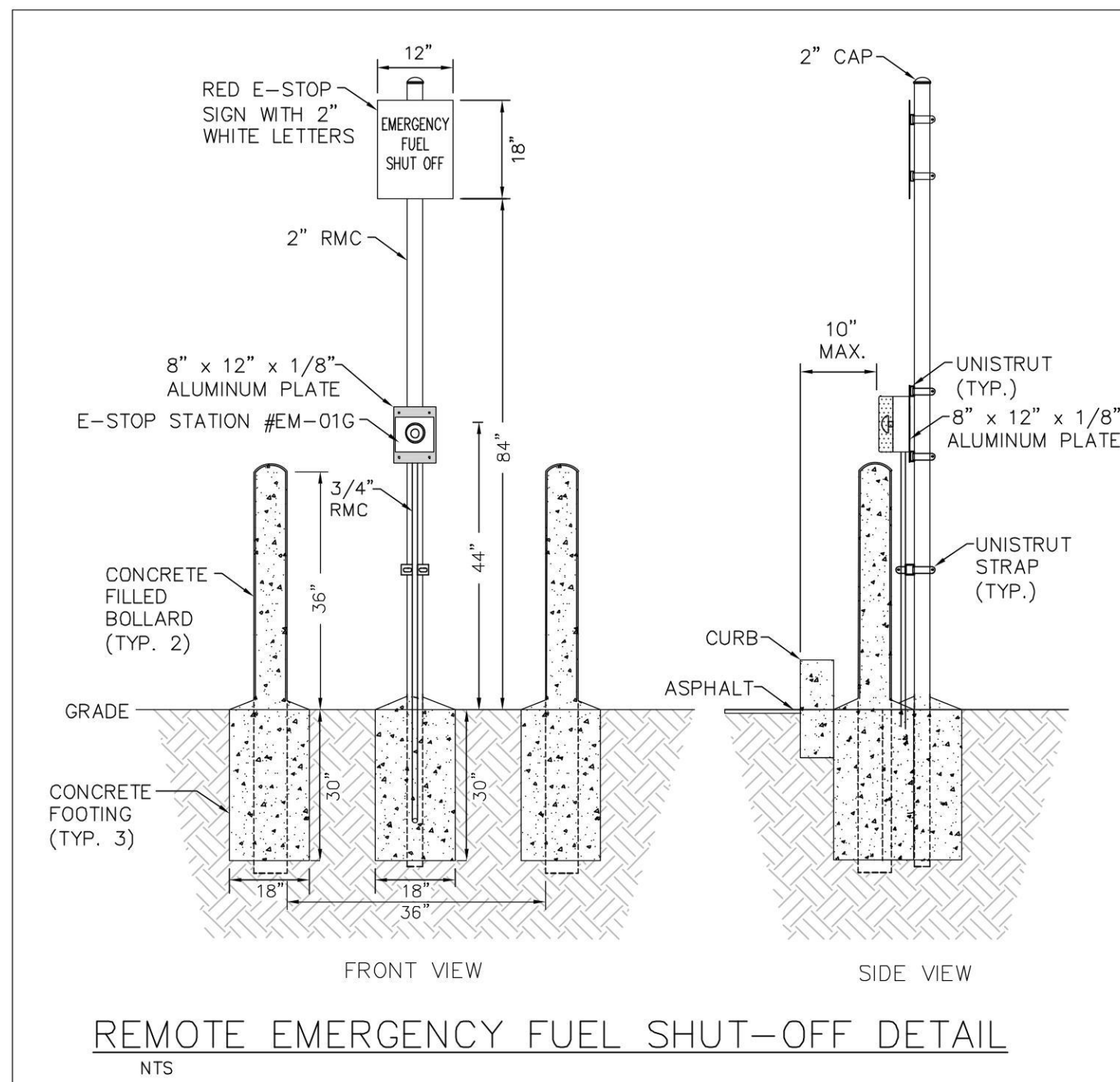
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2151 W HILLSBORO BLVD., STE. 401, DEERFIELD BEACH, FL 33442
FL CA #004557 (954) 427-5076

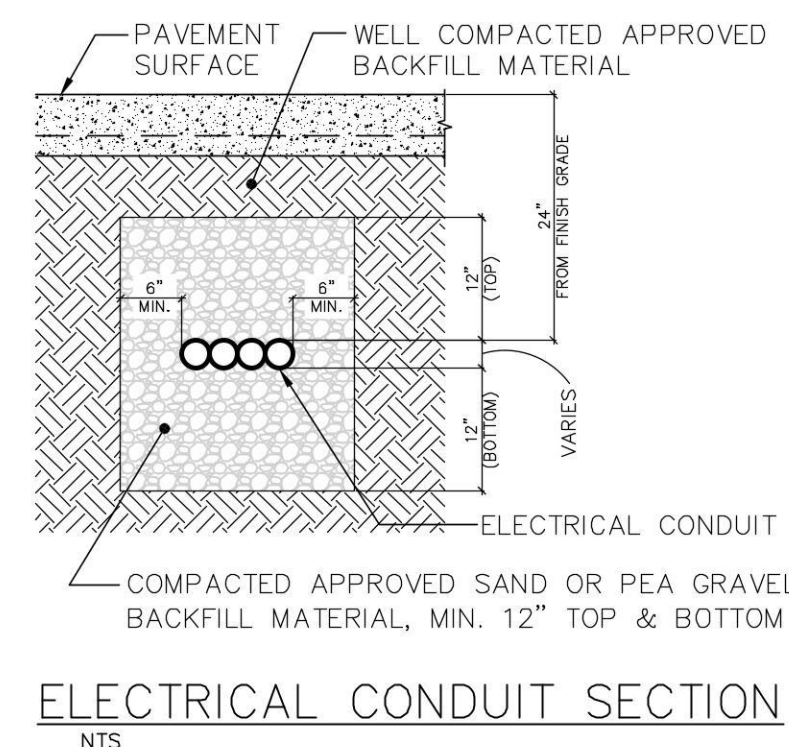
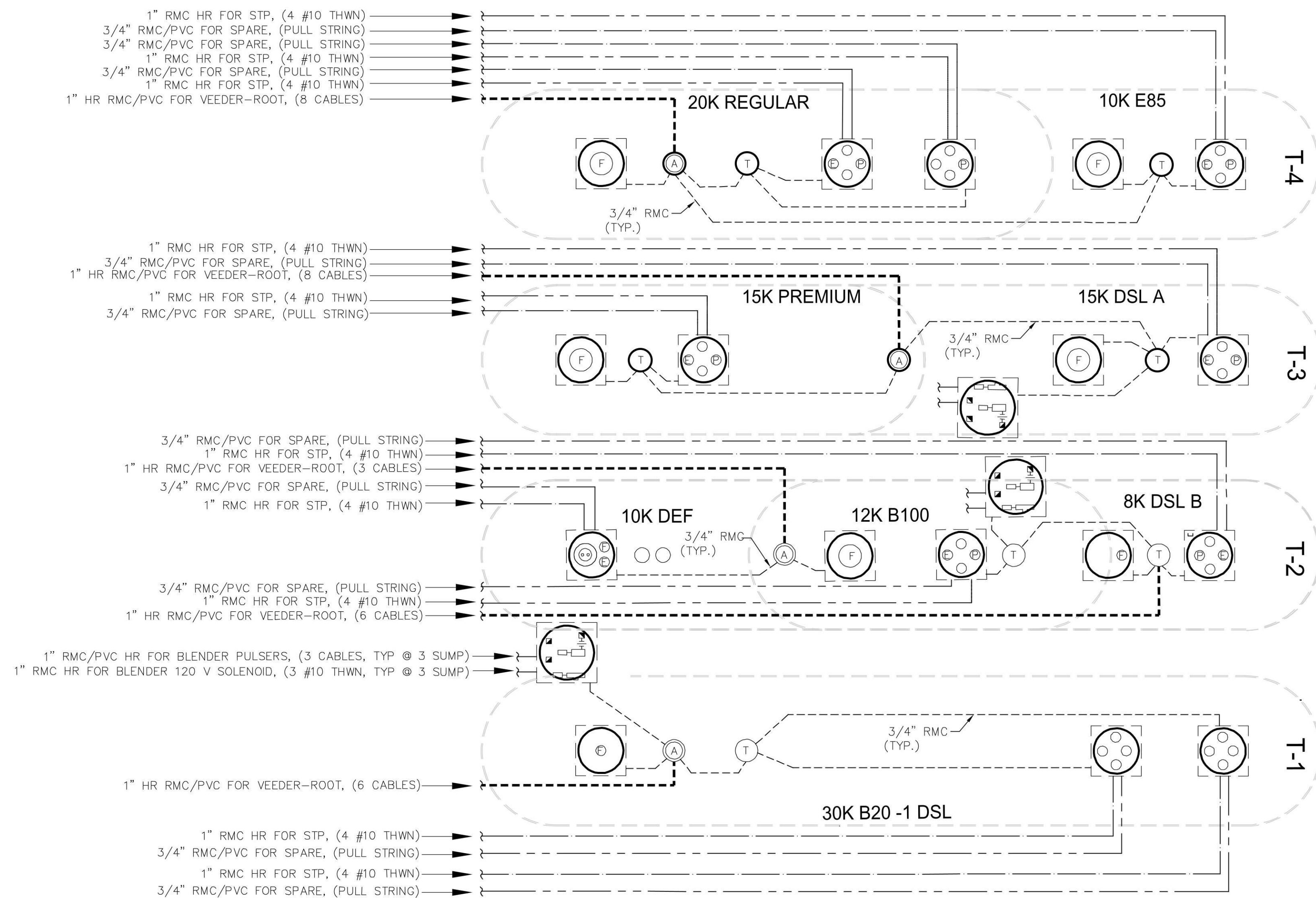
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ISSUED FOR CONSTRUCTION



DISPENSER AND TANK WIRE/CABLE REQUIREMENTS			
ALL WIRE AND CABLE TO BE SUPPLIED AND INSTALLED BY CONTRACTOR			
DESCRIPTION	COLOR	*SIZE	
STP REGULAR #1	(4 HP STP) TAN	#10 (MAX. 200')	
STP REGULAR #2	(4 HP STP) BROWN	#10 (MAX. 200')	
STP PREMIUM	(2 HP STP) RED	#10 (MAX. 200')	
STP E85	(2 HP STP) BLUE	#10 (MAX. 200')	
STP DIESEL A	(2 HP STP) YELLOW	#10 (MAX. 200')	
STP DIESEL B	(4 HP STP) PURPLE	#10 (MAX. 200')	
STP B20-1	(4 HP STP) ORANGE	#10 (MAX. 200')	
STP B20-2	(4 HP STP) LT BLUE	#10 (MAX. 200')	
STP B100	(2 HP STP) PINK	#10 (MAX. 200')	
STP DEF	(1.5 HP STP) BROWN	#10 (MAX. 200')	
DISPENSER POWER	BLACK, WHITE & GREEN	#12	
DISPENSER SPARES	PURPLE & GRAY	#12	
SATELLITE DISPENSER LOOP POWER	BLACK, WHITE & GREEN	#12	
SATELLITE DISPENSER CONTROL WIRES	AS NEEDED	#12	
DISPENSER REGULAR SWITCH LEG	TAN	#12	
DISPENSER PREMIUM SWITCH LEG	RED	#12	
DISPENSER E85 SWITCH LEG	BLUE	#12	
DISPENSER DIESEL A SWITCH LEG	YELLOW	#12	
DISPENSER DIESEL B SWITCH LEG	PURPLE	#12	
DISPENSER B20 #1 SWITCH LEG	ORANGE	#12	
DISPENSER B20 #2 SWITCH LEG	LT BLUE	#12	
DISPENSER B100 SWITCH LEG	PINK	#12	
DISPENSER DEF SWITCH LEG	BROWN	#12	
DISPENSER DATA	BLACK & RED (DATA)	#18 TWISTED PAIR (12 TWISTS/FT)	
DISPENSER DATA	PURPLE & YELLOW (CRIND)	#18 TWISTED PAIR (12 TWISTS/FT)	
TL5-450 SENSORS	(1) #18 SHIELDED TWISTED PAIR	HWC # H32600 OR SMARTWIRE	#WCW88760FEQ
DISPENSER INTERCOM	(2) #22 SHIELDED TWISTED PAIR	HWC # H50850 OR SMARTWIRE	#WCW88723FEQ
BIO-DIESEL BLENDER	(2) #22 SHIELDED TWISTED PAIR	HWC # H50850 OR SMARTWIRE	#WCW88723FEQ

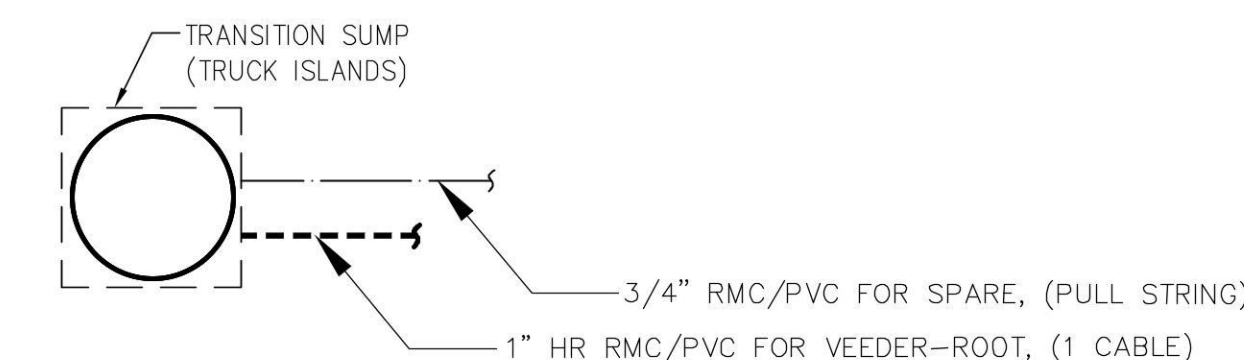
* MINIMUM WIRE SIZE. INCREASE WIRE SIZE & CONDUIT SIZE AS NEEDED TO MAINTAIN MAX. 3.0% VOLTAGE DROP FOR SITE SPECIFIC LAYOUT/ROUTING CONSISTENT WITH BUILDING ELECTRICAL DESIGN.

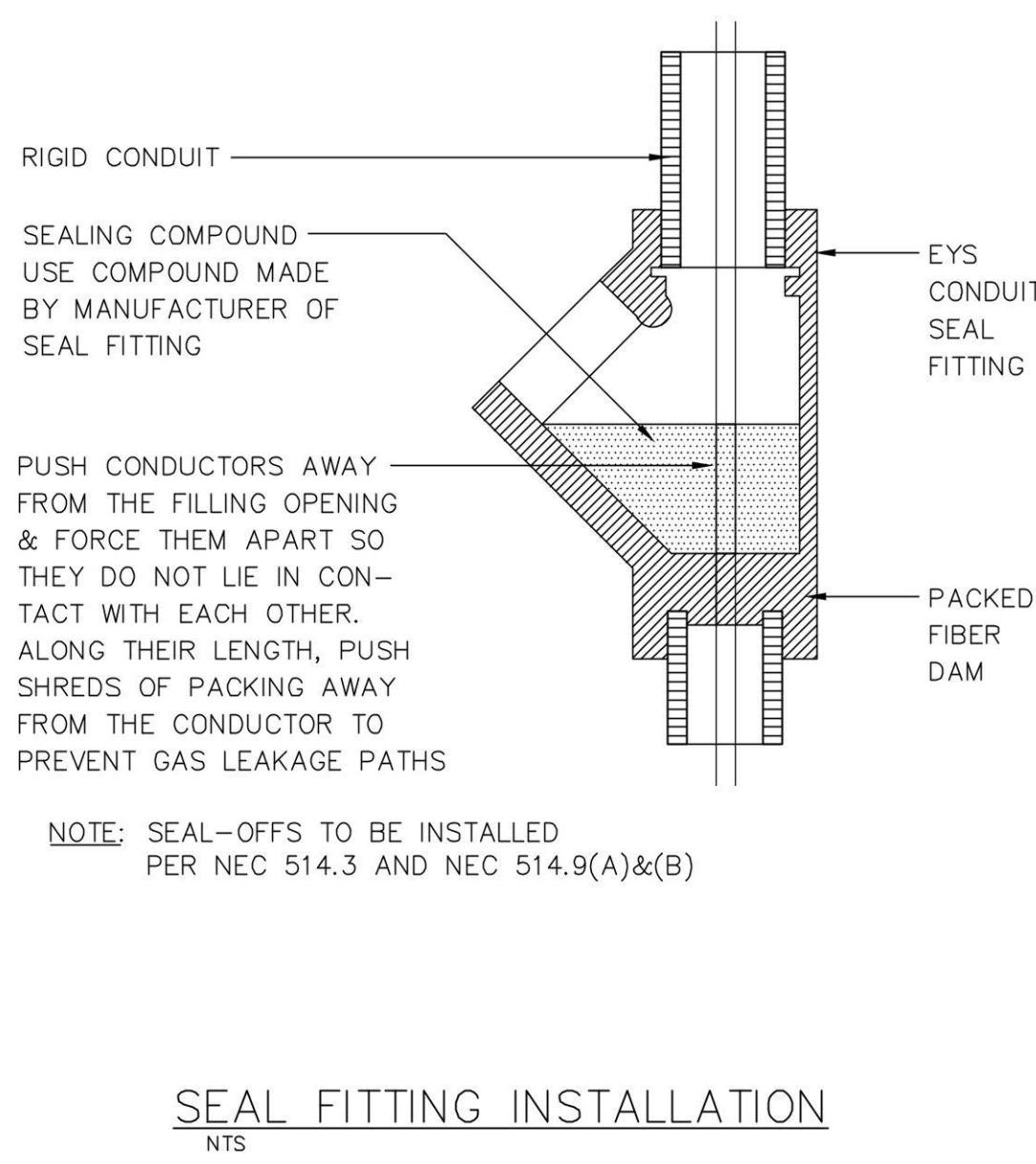
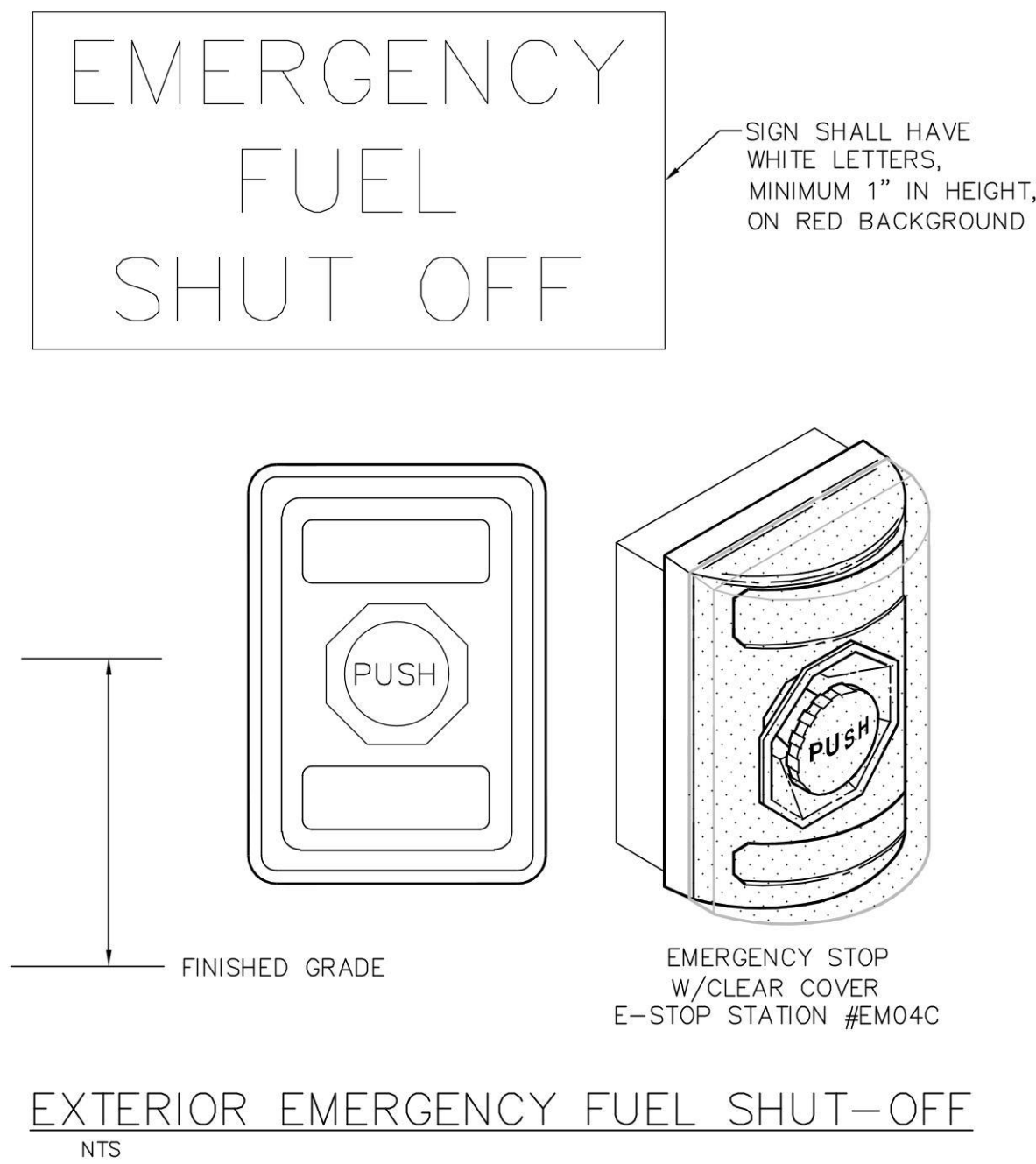
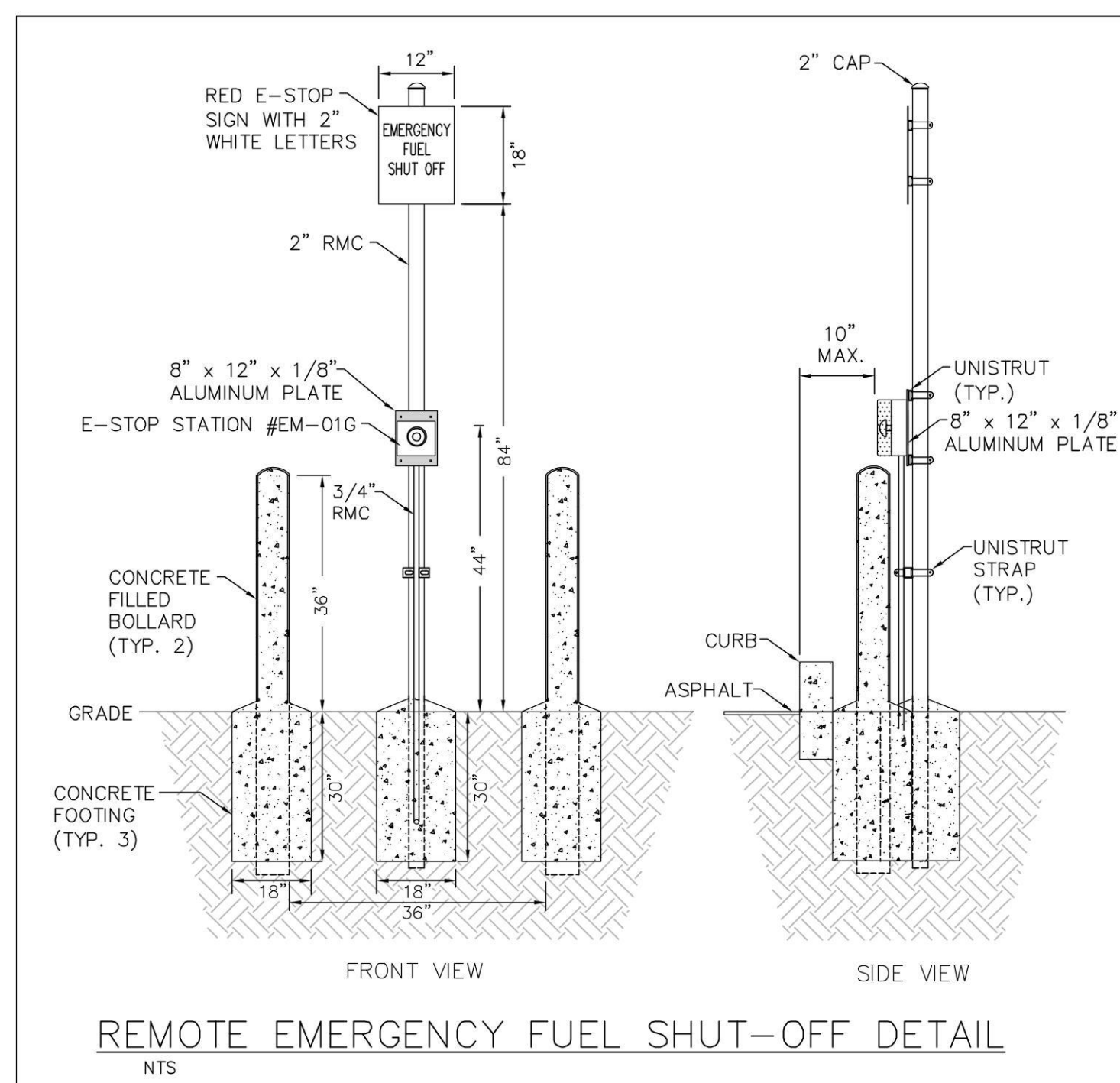


- ## VEEDER-ROOT AND OVERFILL ALARM NOTES:
1. ALL VEEDER-ROOT CONDUITS FOR TANK GAUGE, INTERSTITIAL AND SUMP SENSORS TO RUN DIRECTLY TO INTRINSICALLY SAFE VEEDER-ROOT GUTTER LOCATED INSIDE BUILDING.
 2. VEEDER-ROOT CONSOLE POWER, PLDD POWER AND RELAY WIRES TO RUN IN AN ISOLATED, SEPARATE CONDUIT.
 3. INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE HOUSTON WIRE # H32400, 18 GAUGE 300 VOLT SHIELDED 1-PAIR CABLE.
 4. INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE INSTALLED IN SEPARATE CONDUIT AND NOT THRU GROUND. TERMINATE GROUND WIRE TO APPLETON J-BOX(S) AND/OR BUILDING INTRINSICALLY SAFE VEEDER-ROOT GUTTER AS OCCURS.
 5. INTERCOM CABLES TO BE HOUSTON WIRE # H32600, 22 GAUGE, 300 VOLT SHIELDED 2-PAIR CABLE.
 6. ALL TANK FARM AND DISPENSER HOMERUN CONDUITS TO BE PVC. THE LAST 10' ON BOTH ENDS OF CONDUIT RUN TO BE RMC (RIGID METAL CONDUIT). VEEDER-ROOT TANK FARM CONDUIT LOOPS BETWEEN TANK GAUGE, ANNULAR SPACE, STP SUMPS AND PIPING SUMPS TO BE RMC.
 7. ALL TANK FARM, DISPENSER AND SUMP HOMERUN CONDUITS TO HAVE SEAL-OFFS INSTALLED AT BOTH ENDS OF THE RUN. DISPENSER VEEDER-ROOT CONDUIT LOOPS TO BE RMC AND HAVE A SEAL-OFF ON BOTH ENDS. ALL VEEDER-ROOT CONDUIT LOOPS THAT PENETRATE STP AND TRANSITION SUMPS TO HAVE SEAL-OFFS.
 8. INSTALL (1) APPLETON GRSS-75 J-BOX AT EACH DISPENSER FOR VEEDER-ROOT CONDUIT LOOPS.

- CONDUIT NOTES:
1. DO NOT EXCEED 360" IN TOTAL BENDS FOR CONDUIT HOMERUNS PER NEC 344.26.
 2. CONDUIT FOR STP POWER TO BE RUN IN RMC ALL THE WAY FROM THE BUILDING. DO NOT USE PVC.
 3. PVC MAY BE USED PER NEC 514, EXCEPTION NO. 2 FOR VEEDER-ROOF HOMERUNS, DISPENSER POWER HOMERUNS, DISPENSER INTERCOM HOMERUNS, DISPENSER S-PART HOMERUNS AND DISPENSER TUBING HOMERUNS.
 4. ALL CONDUIT LOOPS FOR TANKS AND AND DISPENSERS TO BE RMC. DO NOT USE PVC.
 5. INSTALL A SEAL-OFF FITTING ON ALL CONDUITS THAT ENTER AND LEAVE A STP SUMPS, TRANSITION SUMPS AND DISPENSER SUMPS.
 6. CONDUIT FILL SHALL NOT EXCEED 25% OF SEAL-OFF FITTING PER NEC 501.15(C)(6).

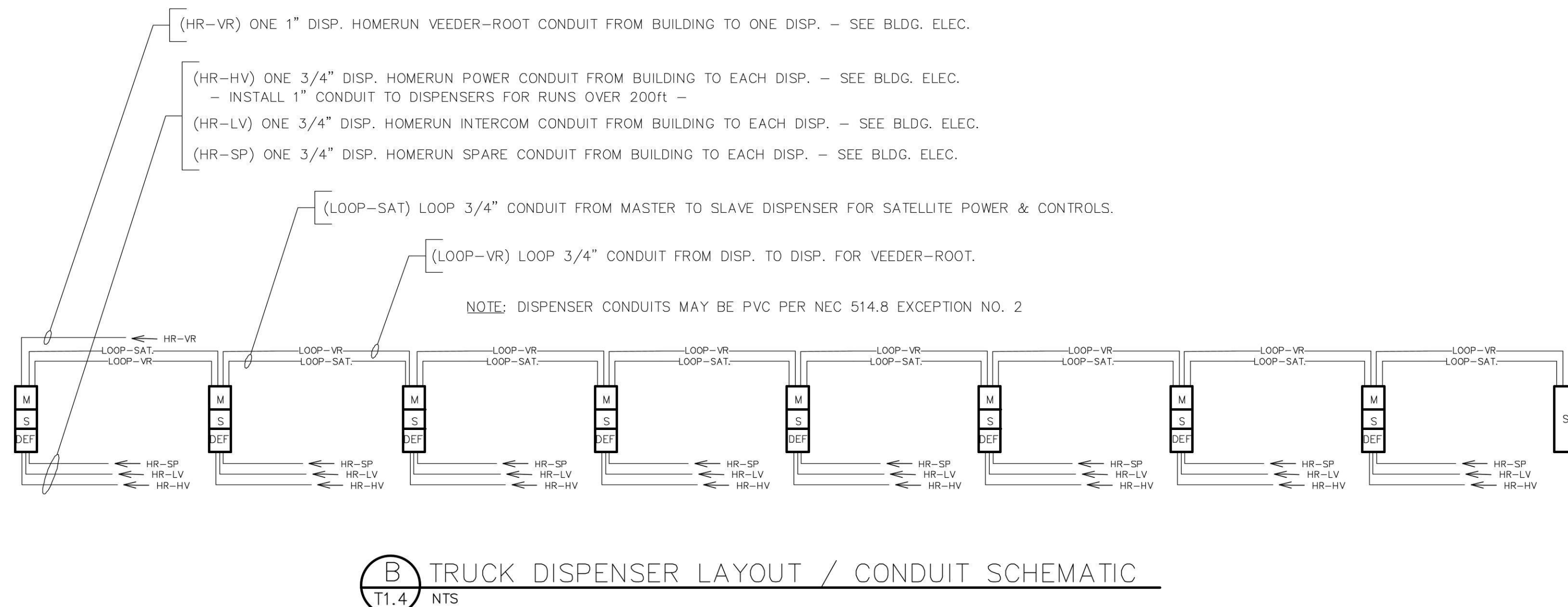
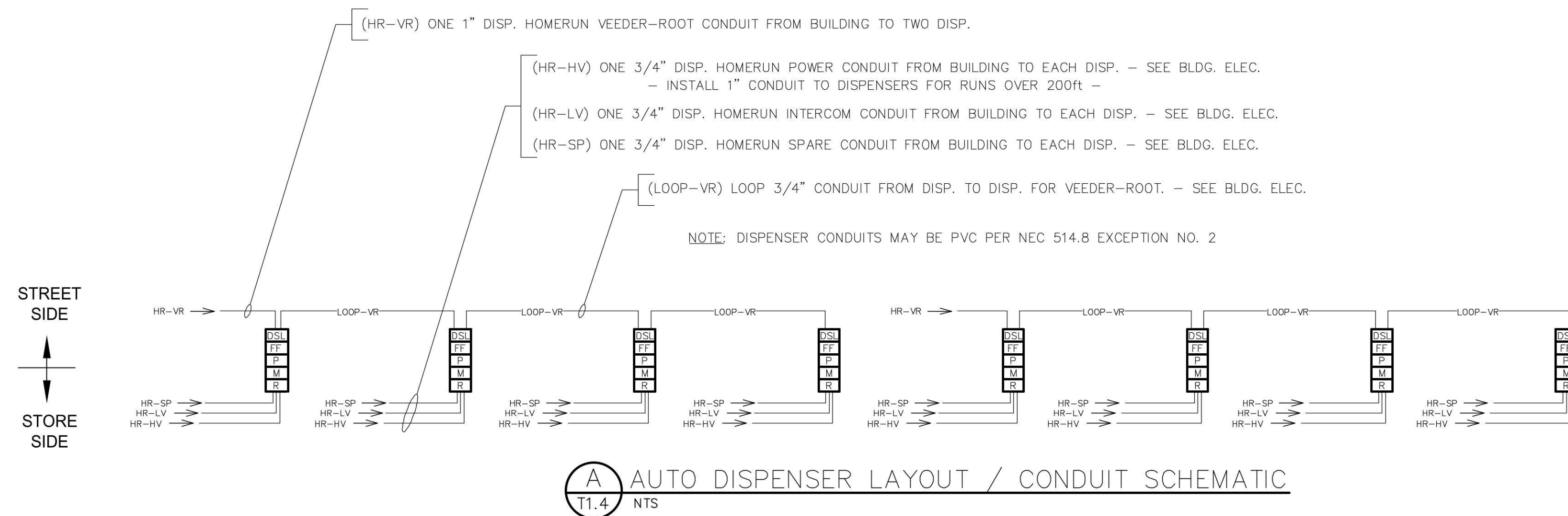
- EMERGENCY FUEL SHUT-OFF NOTES:
1. INSTALL E-STOPS STATIONS WITH-IN 100ft OF EACH DISPENSERS. SEE SITE PLAN FOR LOCATIONS.
 2. INSTALL E-STOP STATIONS #EM04C ON THE BUILDING.
 3. INSTALL E-STOP STATIONS #EM01G FOR REMOTE LOCATIONS.





DISPENSER AND TANK WIRE/CABLE REQUIREMENTS			
ALL WIRE AND CABLE TO BE SUPPLIED AND INSTALLED BY CONTRACTOR			
DESCRIPTION	COLOR	*SIZE	
STP REGULAR #1	(4 HP STP) TAN	#10 (MAX. 200')	
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STP B100	(2 HP STP) PINK	#10 (MAX. 200')	
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DISPENSER POWER	BLACK, WHITE & GREEN	#12	
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DISPENSER B100 SWITCH LEG	PINK	#12	
DISPENSER DEF SWITCH LEG	BROWN	#12	
DISPENSER DATA	BLACK & RED (DATA)	#18 TWISTED PAIR (12 TWISTS/FT)	
DISPENSER DATA	PURPLE & YELLOW (CRIND)	#18 TWISTED PAIR (12 TWISTS/FT)	
TLS-450 SENSORS	(1) #18 SHIELDED TWISTED PAIR	HWC # H32600 OR SMARTWIRE #WCW88760FEQ	
DISPENSER INTERCOM	(2) #22 SHIELDED TWISTED PAIR	HWC # H50850 OR SMARTWIRE #WCW88723FEQ	
BIO-DIESEL BLENDER	(2) #22 SHIELDED TWISTED PAIR	HWC # H50850 OR SMARTWIRE #WCW88723FEQ	

* MINIMUM WIRE SIZE. INCREASE WIRE SIZE & CONDUIT SIZE AS NEEDED TO MAINTAIN MAX. 3.0% VOLTAGE DROP FOR SITE SPECIFIC LAYOUT/ROUTING CONSISTENT WITH BUILDING ELECTRICAL DESIGN.



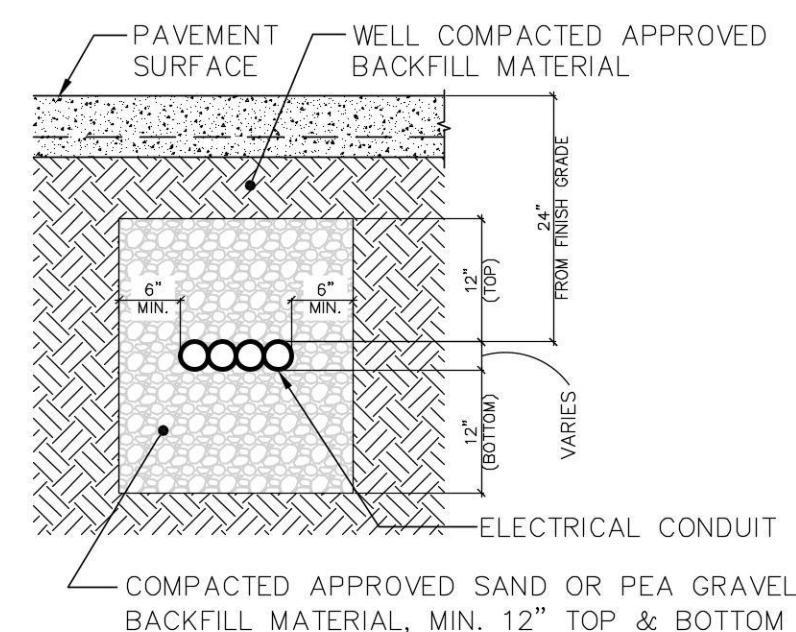
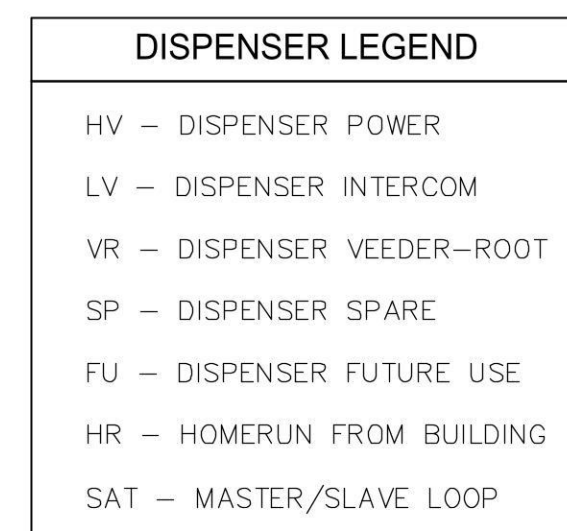
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2. VEEDER-ROOT CONSOLE POWER, PLID POWER AND RELAY WIRES TO RUN IN AN ISOLATED, SEPARATE CONDUIT.
3. INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE HOUSTON WIRE # H32400, 18 GAUGE 300 VOLT SHIELDED 1-PAIR CABLE.
4. INTRINSICALLY SAFE VEEDER-ROOT TANK GAUGE AND LEAK DETECTION CABLES TO BE INSTALLED IN SEPARATE CONDUIT WITH A #12 THWN GREEN GROUND WIRE. TERMINATE GROUND WIRE AT APPLETON J-BOX(S) AND/OR BUILDING INTRINSICALLY SAFE VEEDER-ROOT GUTTER AS OCCURS.
5. INTERCOM CABLES TO BE HOUSTON WIRE # H32600, 22 GAUGE, 300 VOLT SHIELDED 2-PAIR CABLE.
6. ALL TANK FARM AND DISPENSER HOMERUN CONDUITS TO BE PVC, THE LAST 10' ON BOTH ENDS OF CONDUIT RUN TO BE RMC (RIGID METAL CONDUIT). VEEDER-ROOT TANK FARM CONDUIT LOOPS BETWEEN TANK GAUGES, ANNULAR SPACE, SUMP SUMPS AND PIPING SUMPS TO BE RMC.
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8. INSTALL (1) APPLETON GRSS-75 J-BOX AT EACH DISPENSER FOR VEEDER-ROOT CONDUIT LOOPS.

CONDUIT NOTES:

1. DO NOT EXCEED 360° TOTAL BENDS FOR CONDUIT HOMERUNS PER NEC 344.26.
2. CONDUIT FOR STP POWER TO BE RUN IN RMC ALL THE WAY FROM THE BUILDING. DO NOT USE PVC.
3. PVC MAY BE USED PER NEC 514, EXCEPTION NO. 2 FOR VEEDER-ROOF HOMERUNS, DISPENSER POWER HOMERUNS, DISPENSER INTERCOM HOMERUNS, DISPENSER SPARE HOMERUNS AND DISPENSER FUTURE HOMERUNS.
4. CONDUIT LOOPS FOR TANKS AND DISPENSERS TO BE RMC. DO NOT USE PVC.
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6. CONDUIT FILL SHALL NOT EXCEED 25% OF SEAL-OFF FITTING PER NEC 501.15(C)(6).

EMERGENCY FUEL SHUT-OFF NOTES:

1. INSTALL E-STOPS STATIONS WITH-IN 100ft OF EACH DISPENSERS. SEE SITE PLAN FOR LOCATIONS.
2. INSTALL E-STOP STATIONS #EM04C ON THE BUILDING.
3. INSTALL E-STOP STATIONS #EM01G FOR REMOTE LOCATIONS.



ELECTRICAL CONDUIT SECTION

RaceTrac.

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DESIGN PROFESSIONALS

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engineering • environmental • construction

2151 W HILLSBORO BLVD., SUITE 101, DEERFIELD BEACH, FL. 33442
FL. CA. 9004857 (954) 427-3076

ISSUE/REVISION RECORD

[illegible]**RaceTrac**

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE
SUITE 900
ATLANTA, GEORGIA 30339
(770) 431-7600

PROJECT NAME

ANVIL BLOCK

ELLENWOOD
GEORGIA
4443 DUNN COURT

RACETRAC PROJECT NUMBER

1478

PLAN SERIES

2011 BR-RH-M90 0801

PLAN MODIFICATION NOTICE

- ☒ NO MODIFICATIONS APPLIED
☐ MODIFICATIONS APPLY

SPB NO. N/A DATE N/A

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

PROFESSIONAL SEAL



RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER

21056

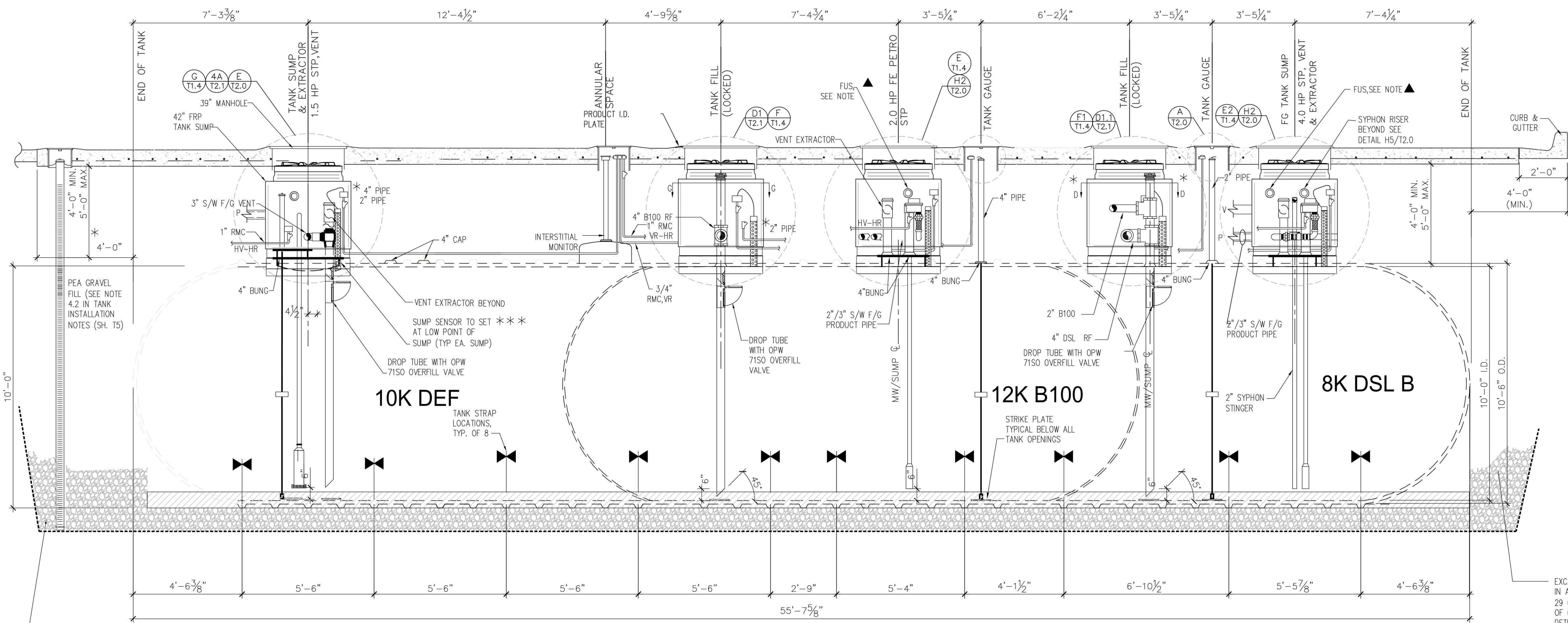
SHEET TITLE & NUMBER

DISPENSER ELECTRICAL LAYOUT

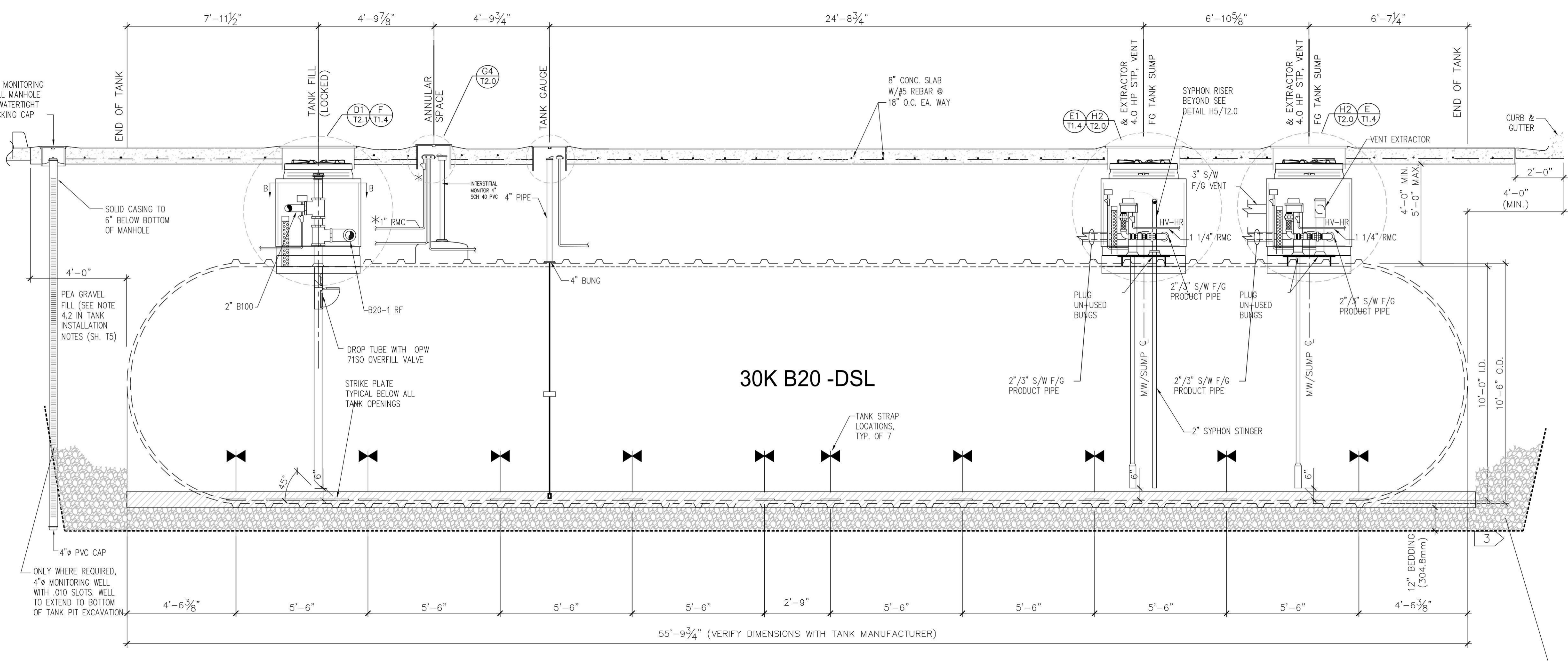
FILE NUMBER

T1.3

ISSUED FOR CONSTRUCTION



C LONGITUDINAL TANK SECTION
30,000 GALLON TANK 3/8"=1'-0"



LONGITUDINAL TANK SECTION
30,000 GALLON TANK 3/8"=1'-0"

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DESIGN PROFESSIONALS

MDM

engineering • environmental • construction

2151 W HILLSBORO BLVD, STE 401 • DEERFIELD BEACH, FL 33442
FL CA 000857
(850) 427-3076

PLANS PREPARED BY:

[illegible]

RaceTrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE
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ATLANTA, GEORGIA 30339
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PLAN SERIES
2011 BR-RH-M90 0801
PLAN MODIFICATION NOTICE

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PROFESSIONAL SEAL


 Digitally signed by
 Richard R Morris
 Date: 2021.03.22
 16:44:01-04'00"

RICHARD R. MORRIS
 GA REG # PE013997

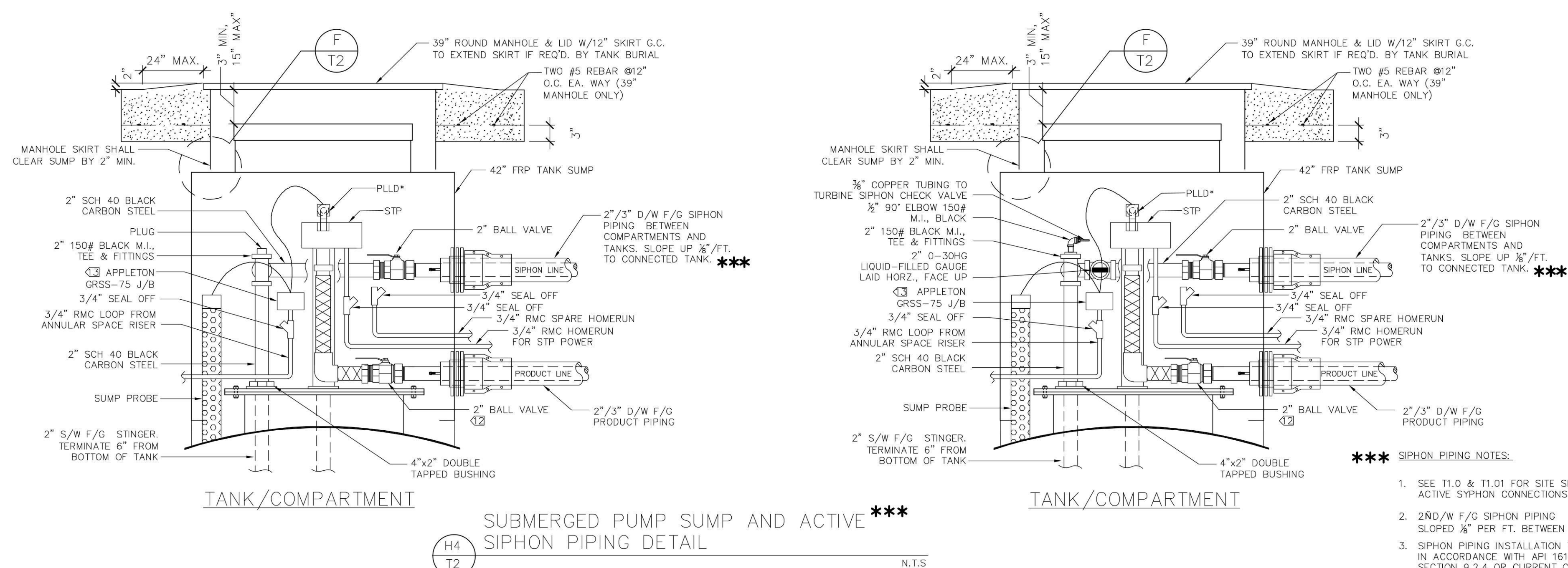
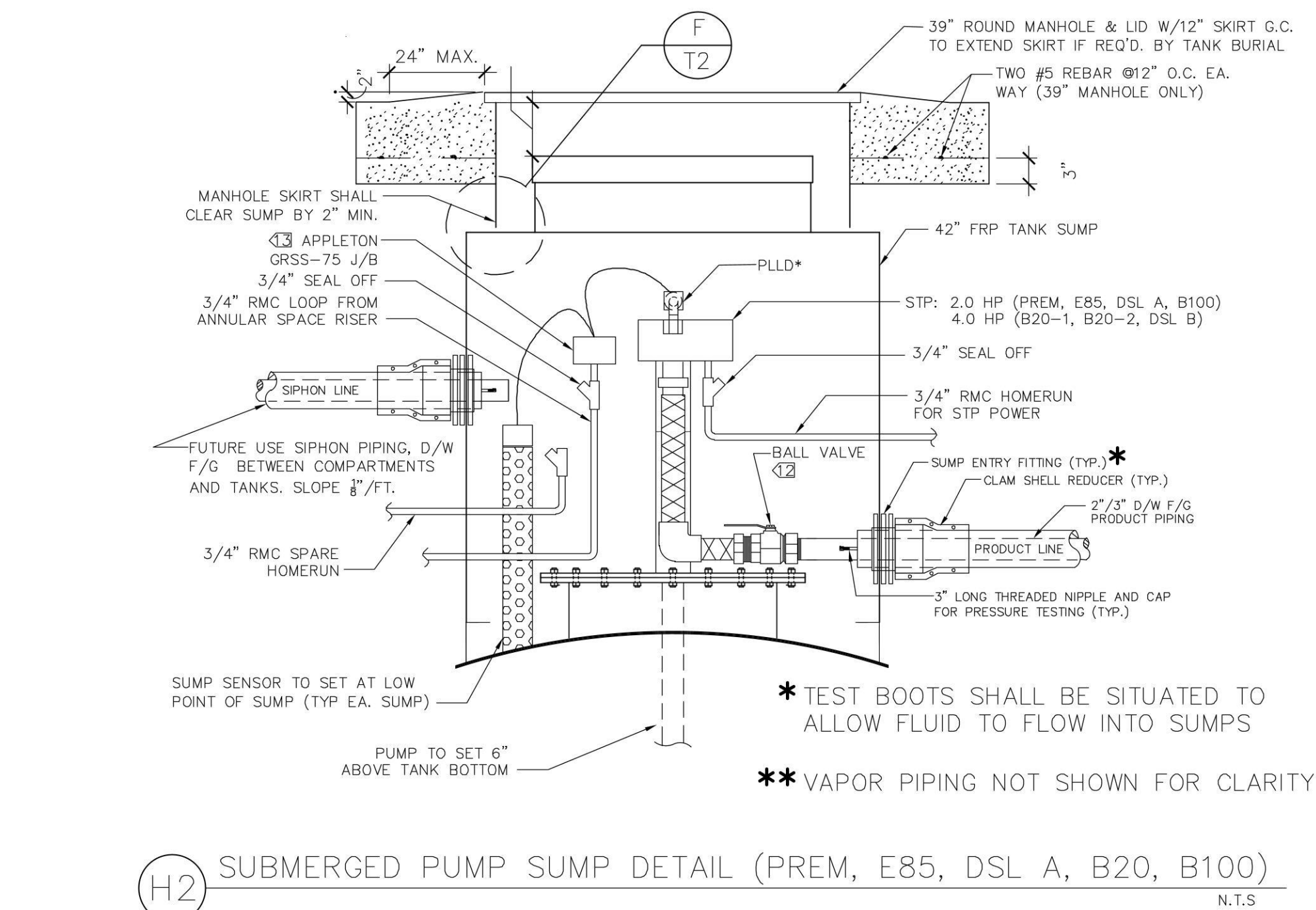
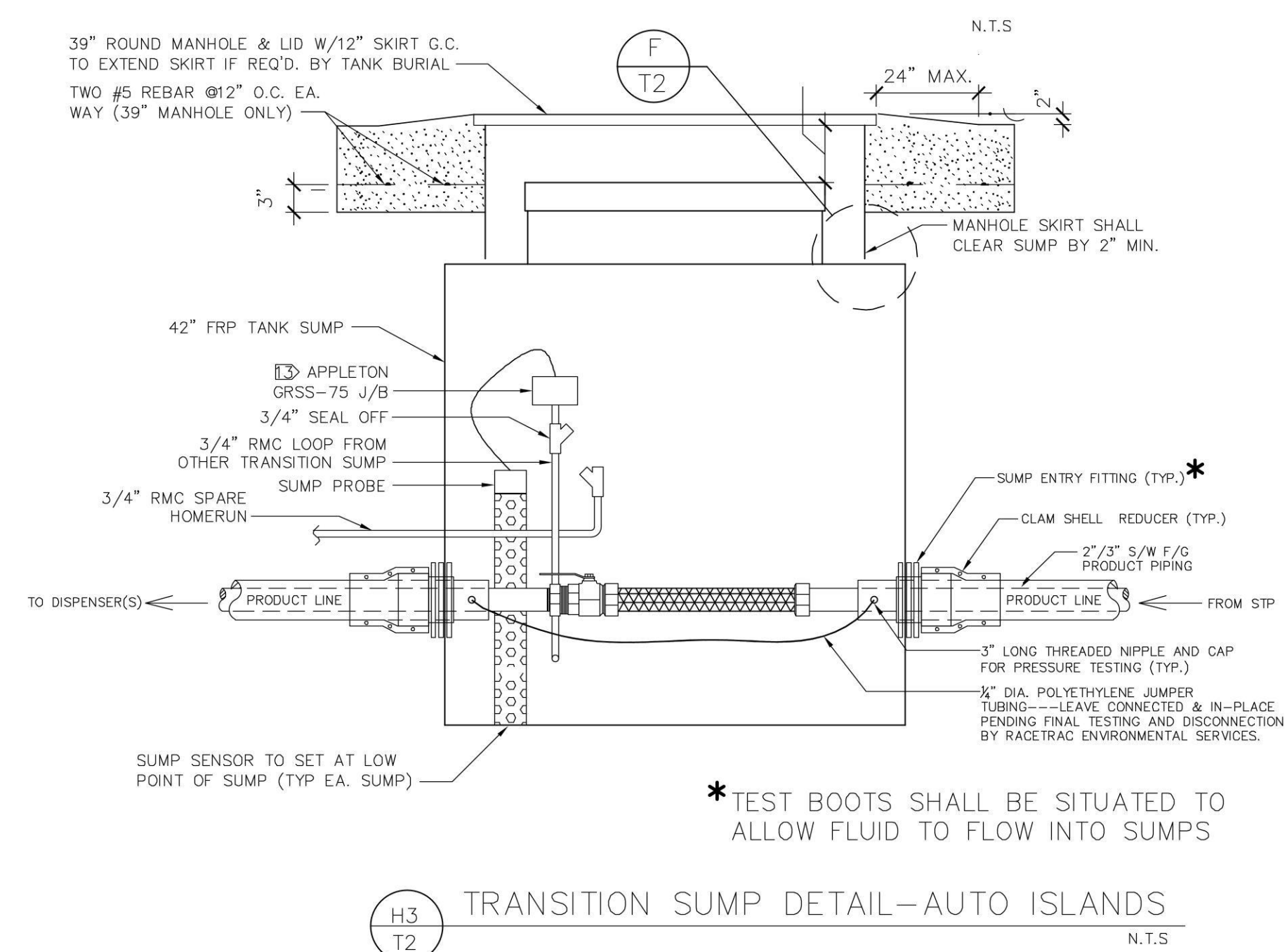
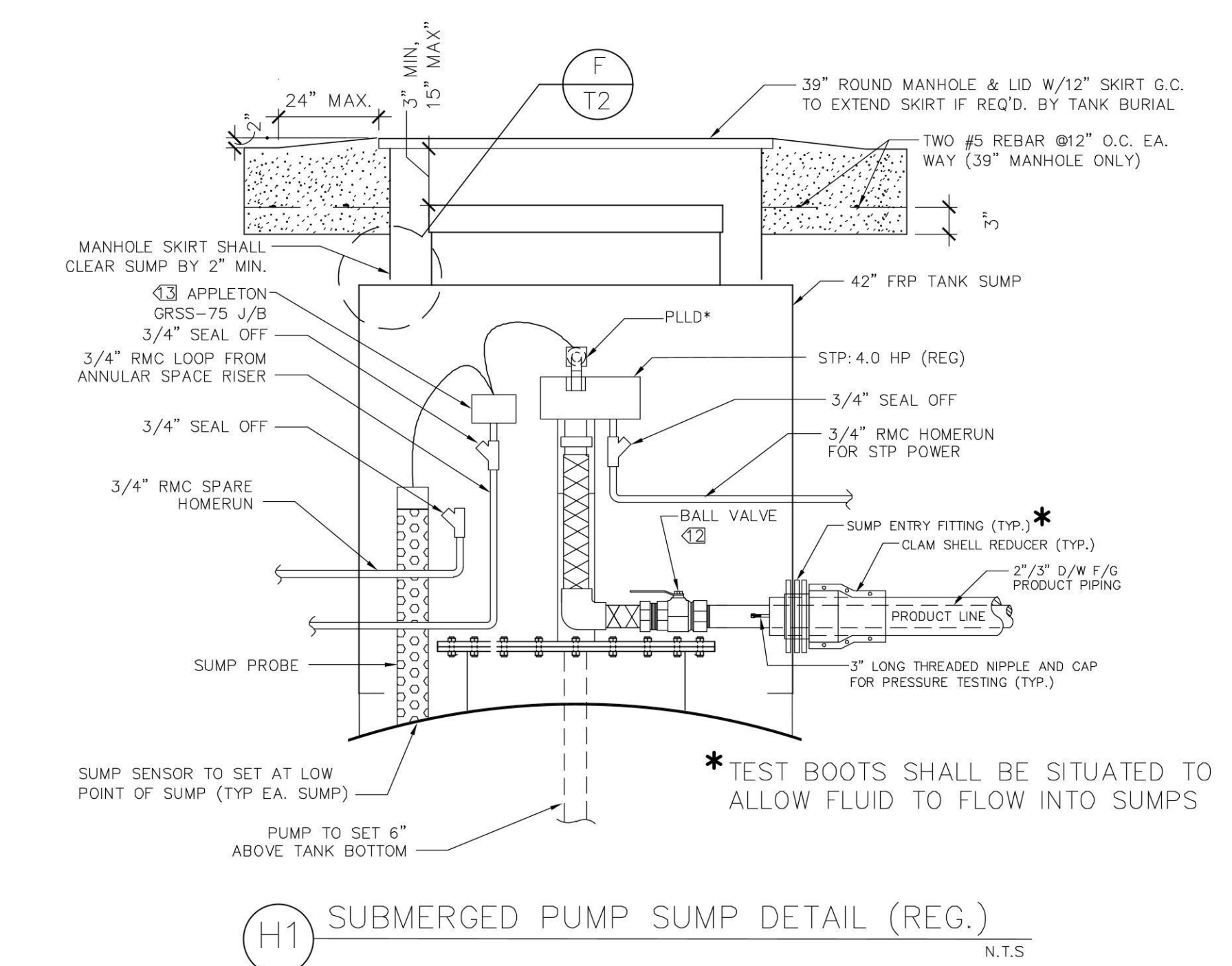
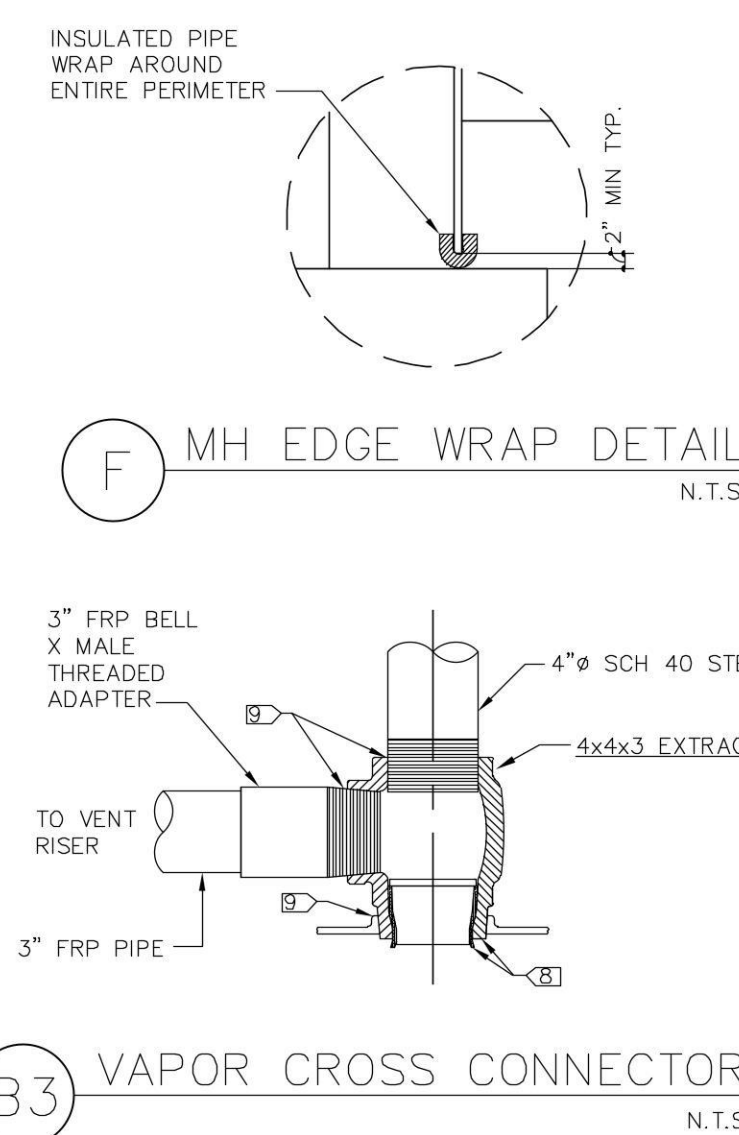
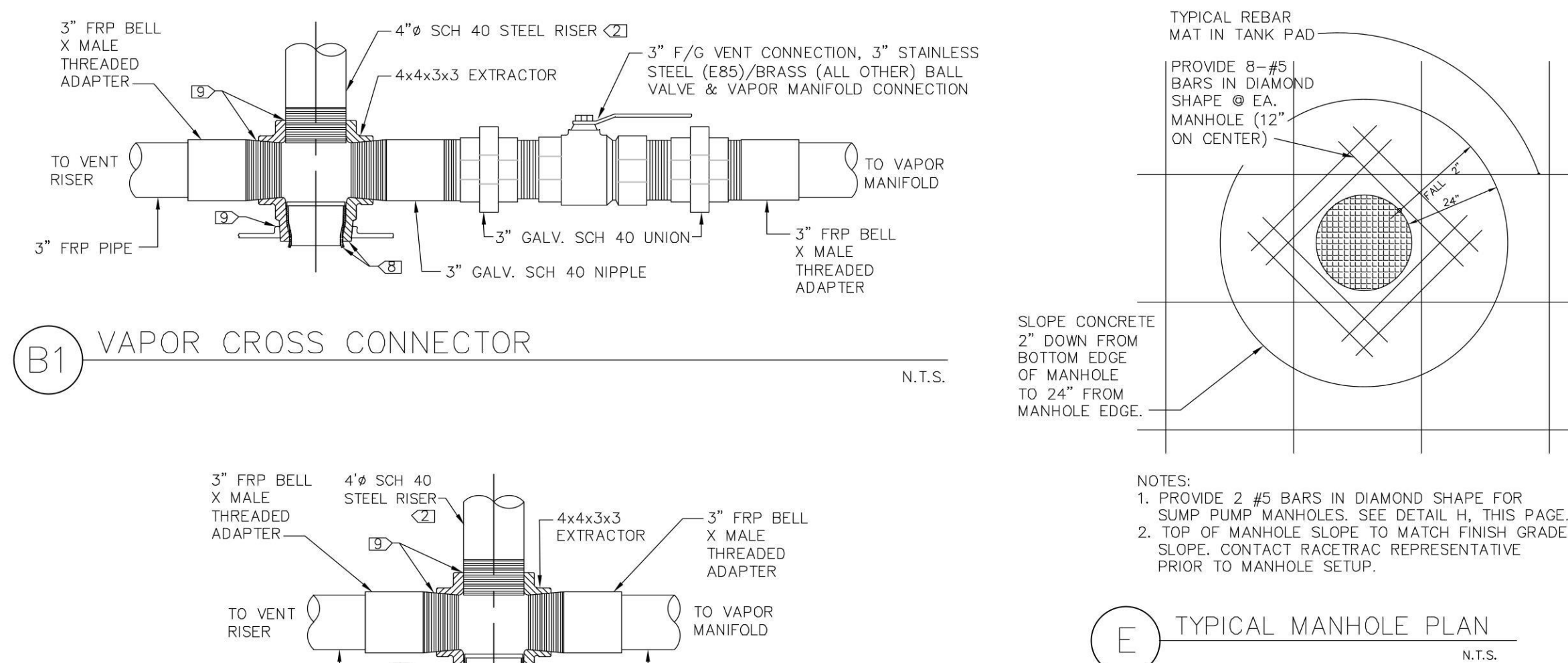
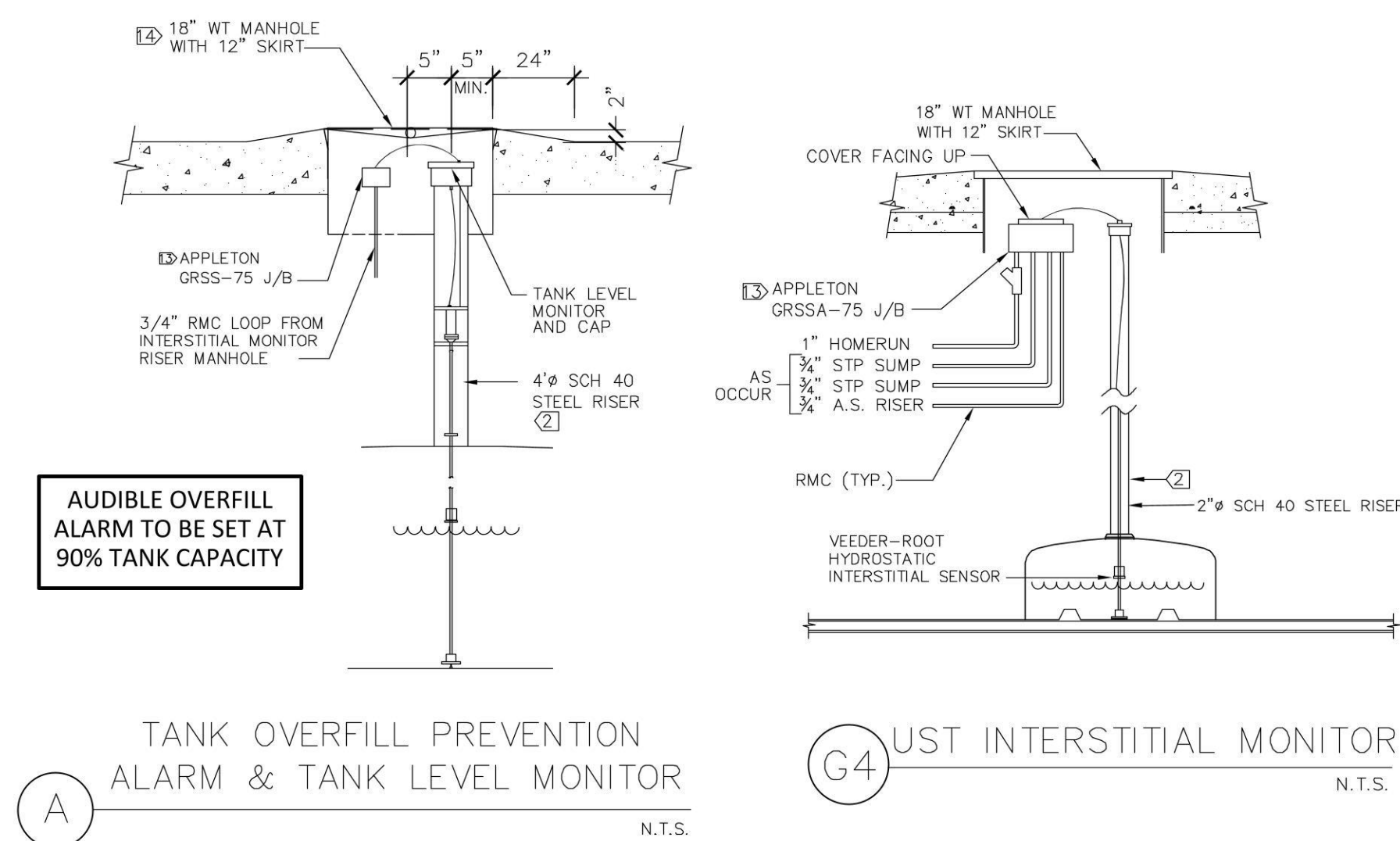
PROJECT NUMBER
21056

SHEET TITLE & NUMBER

TRUCK FUELING TANK DETAILS

FILE NUMBER

T1.4
ISSUED FOR CONSTRUCTION

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DESIGN PROFESSIONALS

PLANS PREPARED BY:

MDM

engineering • environmental • construction

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FL CA #004857 (954) 427-3076

ISSUE/REVISION RECORD

DATE	DESCRIPTION
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RaceTrac

RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE
SUITE 900
ATLANTA, GEORGIA 30339
(770) 431-7600

PROJECT NAME

ANVIL BLOCK

ELLENWOOD
GEORGIA
4443 DUNN COURT

RACETRAC PROJECT NUMBER

1478

PLAN SERIES

2011 BR-RH-M90 0801

PLAN MODIFICATION NOTI

■ NO MODIFICATIONS APPLIED

☐ MODIFICATIONS APPLY

SPB NO. N/A DATE N/A

STANDARD PLAN BULLETINS (SPB) MOD
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SPB GIVEN ABOVE REPRESENTS THE
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THIS PLAN SERIES SET. CONTACT
RACETRAC ENGINEERING AND
CONSTRUCTION FOR ALL BULLETINS

PROFESSIONAL SEAL

Digitally signed by
Richard R Morris
Date: 2021.03.22
16:44:15-04'00'

RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER
21056

SHEET TITLE & NUMBER

U/G TANK EQUIPMENT

FILE NUMBER

T2.0

ISSUED FOR CONSTRUCTION



1005-616SF4
PREMIUM

005-616SF4-
REGULAR

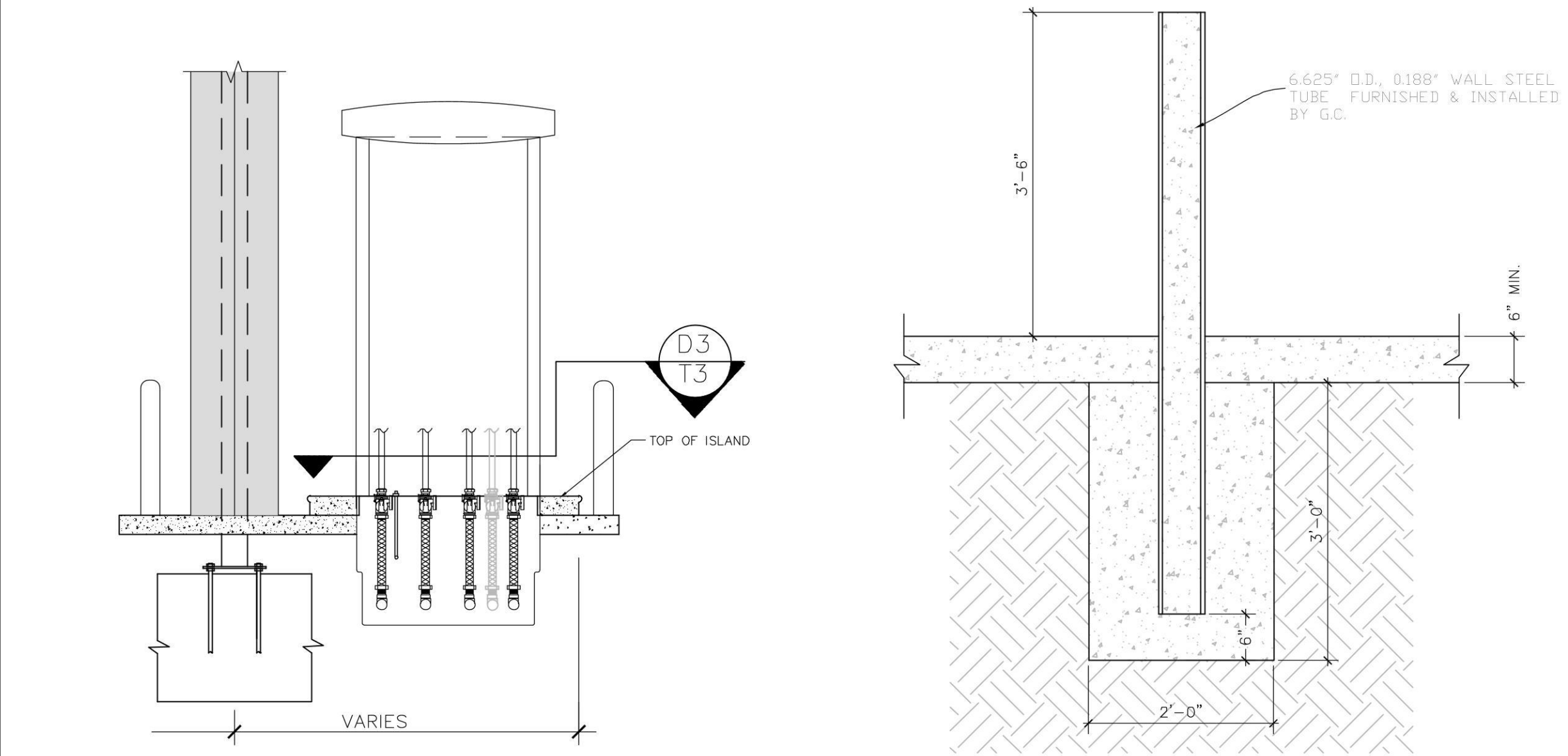
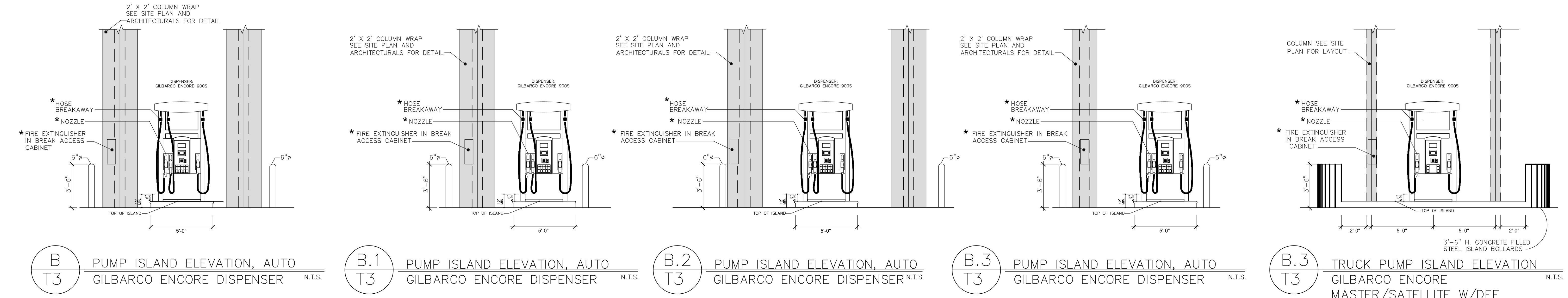
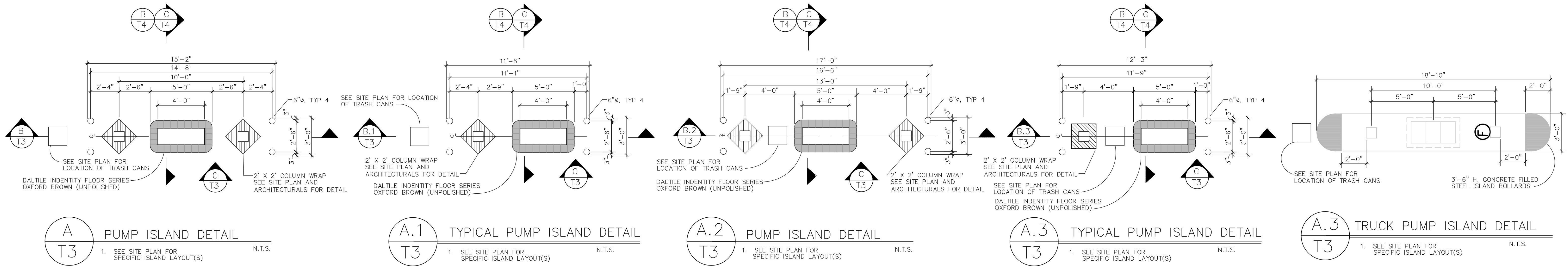
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DIESEL

005-616SF4-I
E-85

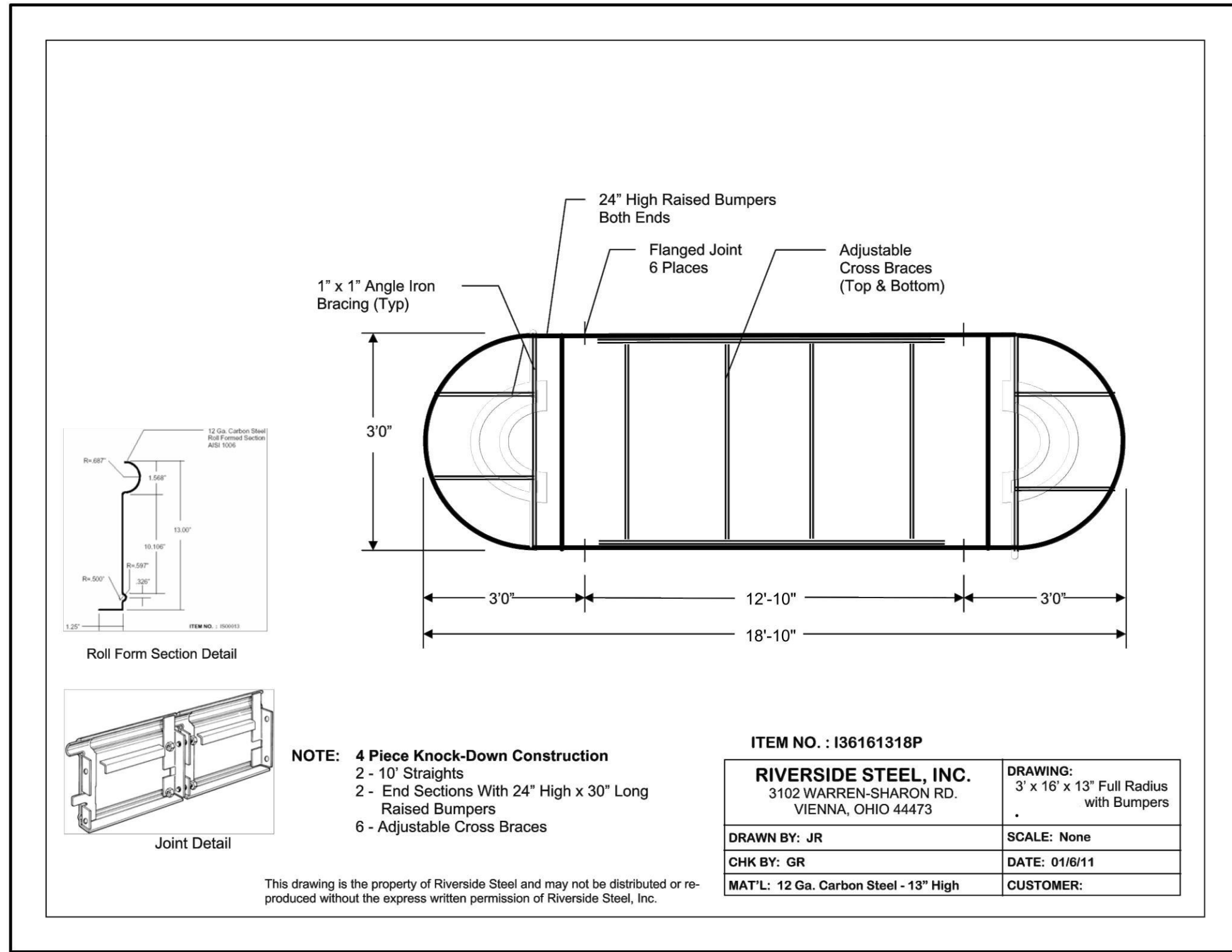


(D4) REMOTE FILL ABOVE GRADE SPILL CONTAINMENT BOX, DEF N.T.S.

ISSUED FOR CONSTRUCTION



- NOTES:**
1. FUEL NOZZLES TO BE UL LISTED, SEE SPECIFICATION SHEET T-4.
 2. FUEL HOSE BREAKAWAYS TO BE UL LISTED, SEE SPECIFICATION SHEET T-4.
 3. SHEAR VALVE TO BE RIGIDLY ANCHORED, SEE SPECIFICATION SHEET T-4.
 4. FACILITY SHALL BE PROVIDED WITH NFPA 30A, 9.2.5.2/NFPA 10 HIGH FLOW FIRE EXTINGUISHER: AMEREX MODEL NO. 760, 4A:60B/C, 20 LB CAPACITY, OR EQUAL, WITHIN 100 FT OF ALL DISPENSING PUMPS & FILL PIPE OPENINGS.



PROFESSIONAL SEAL

GEORGIA REGISTERED ENGINEER
No. 013997
RICHARD RUSSELL MORRIS

Digitally signed by Richard R. Morris
Date: 2021.03.22 16:44:24-04'00'

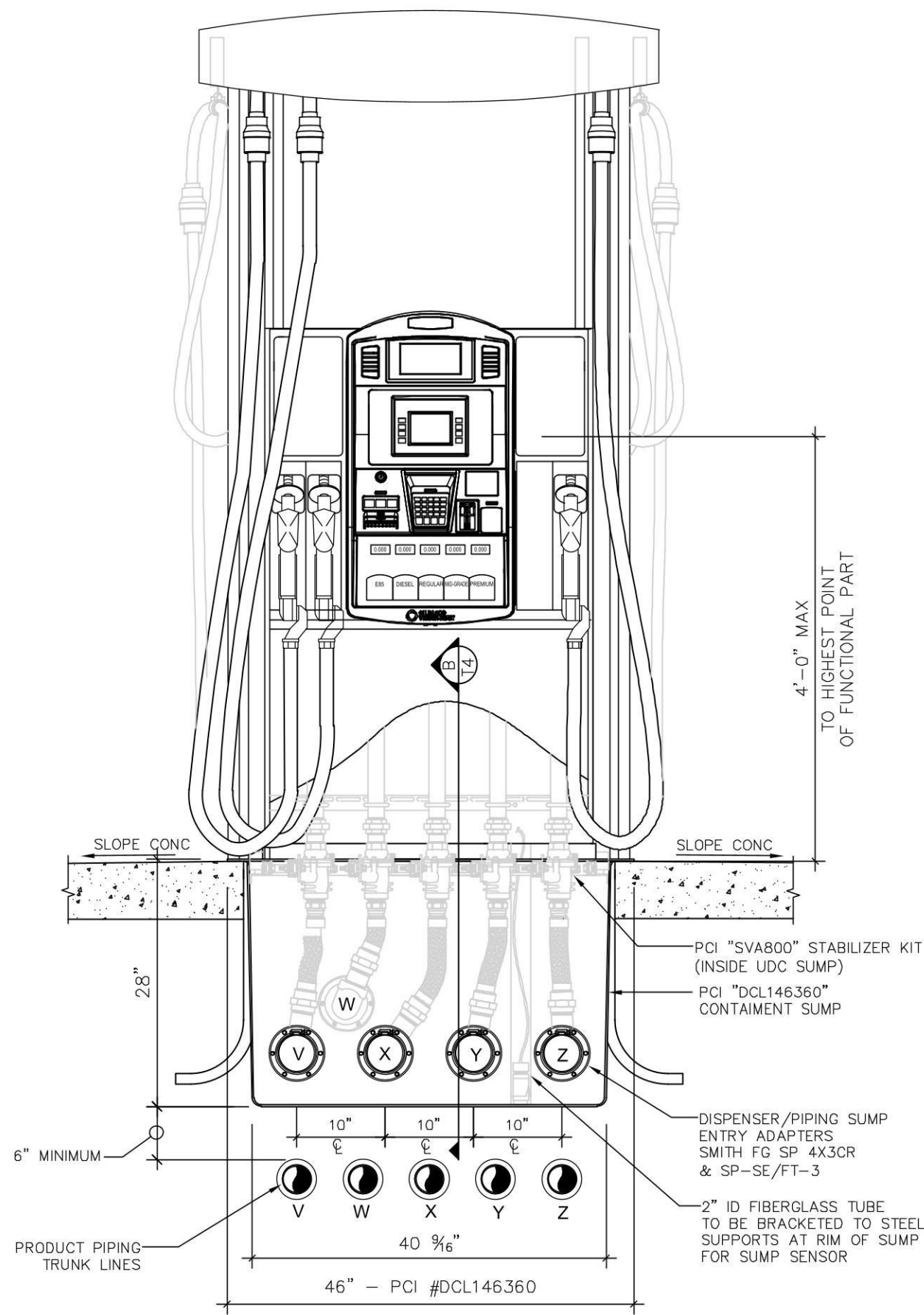
RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER
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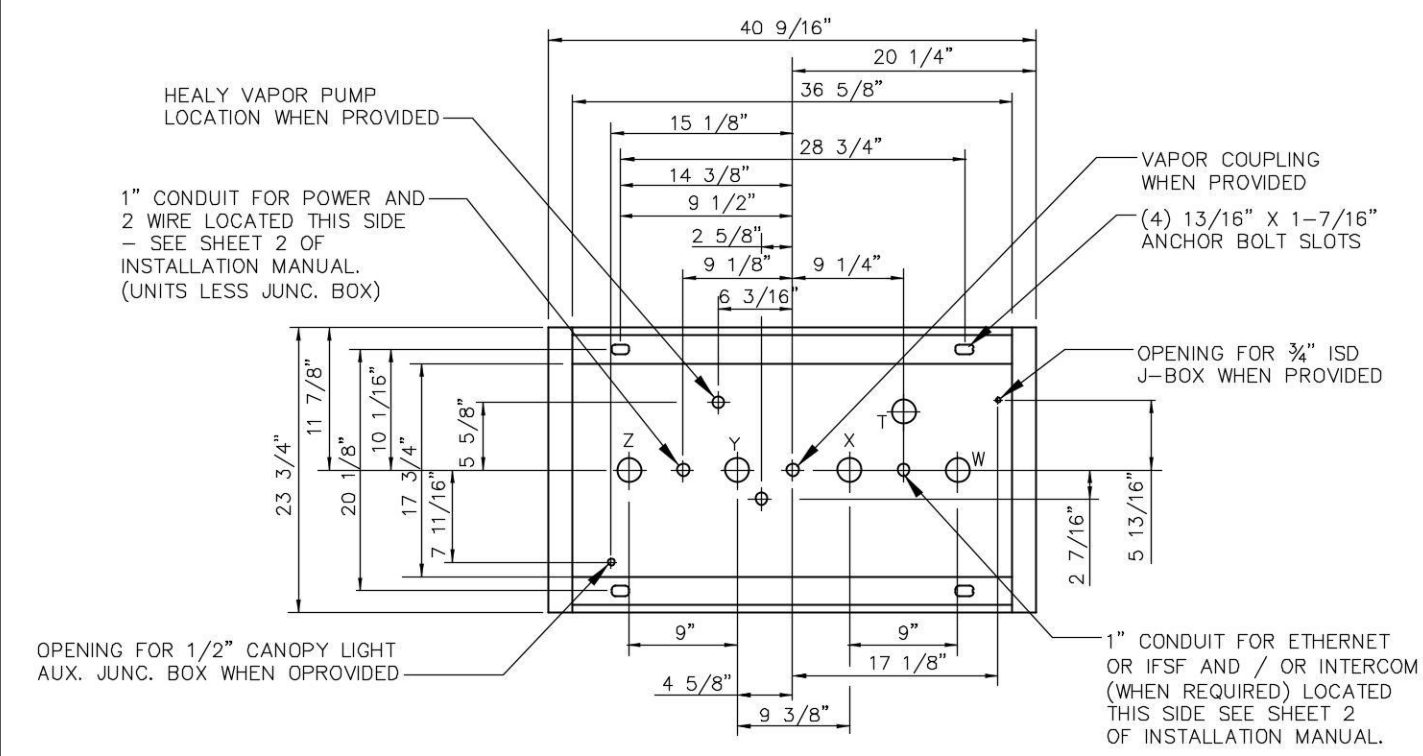
SHEET TITLE & NUMBER
DISPENSER ISLAND DETAILS

FILE NUMBER
T3.0

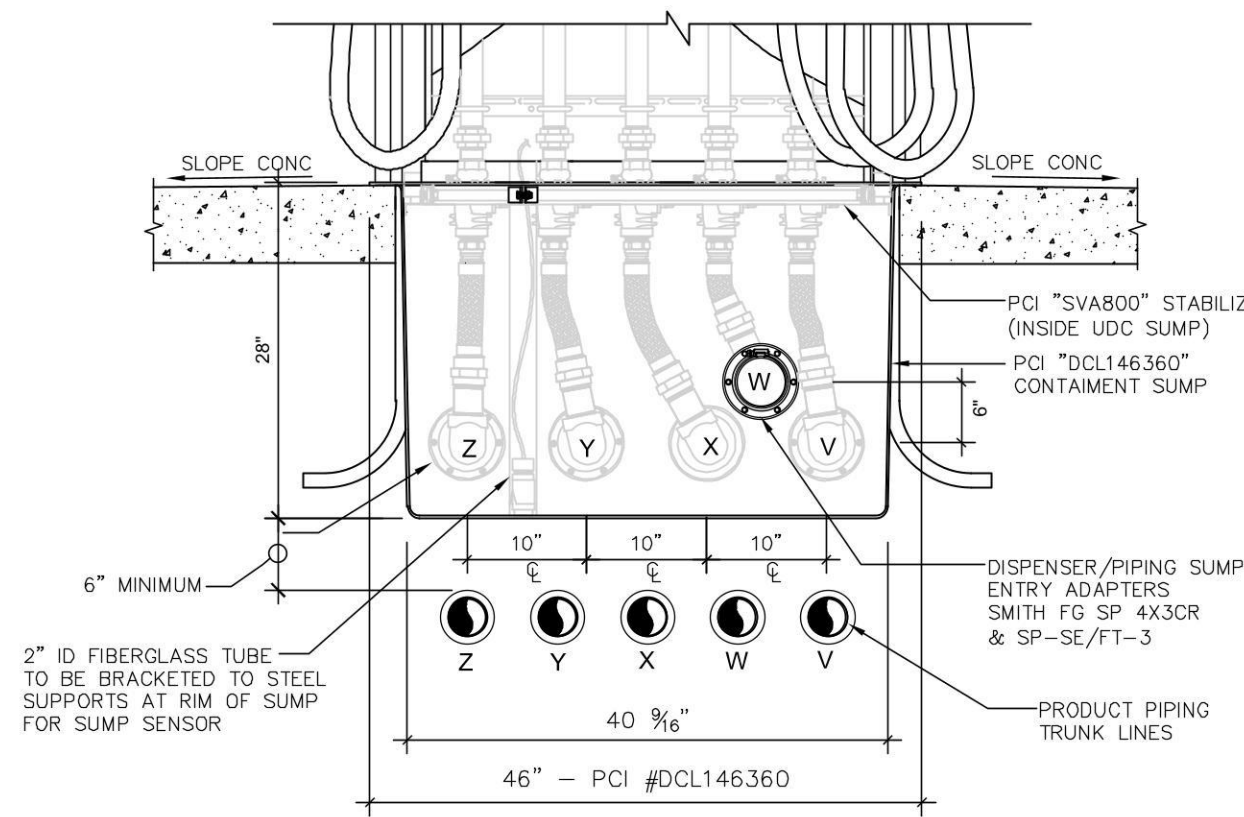
ISSUED FOR CONSTRUCTION



UDC - FRONT VIEW

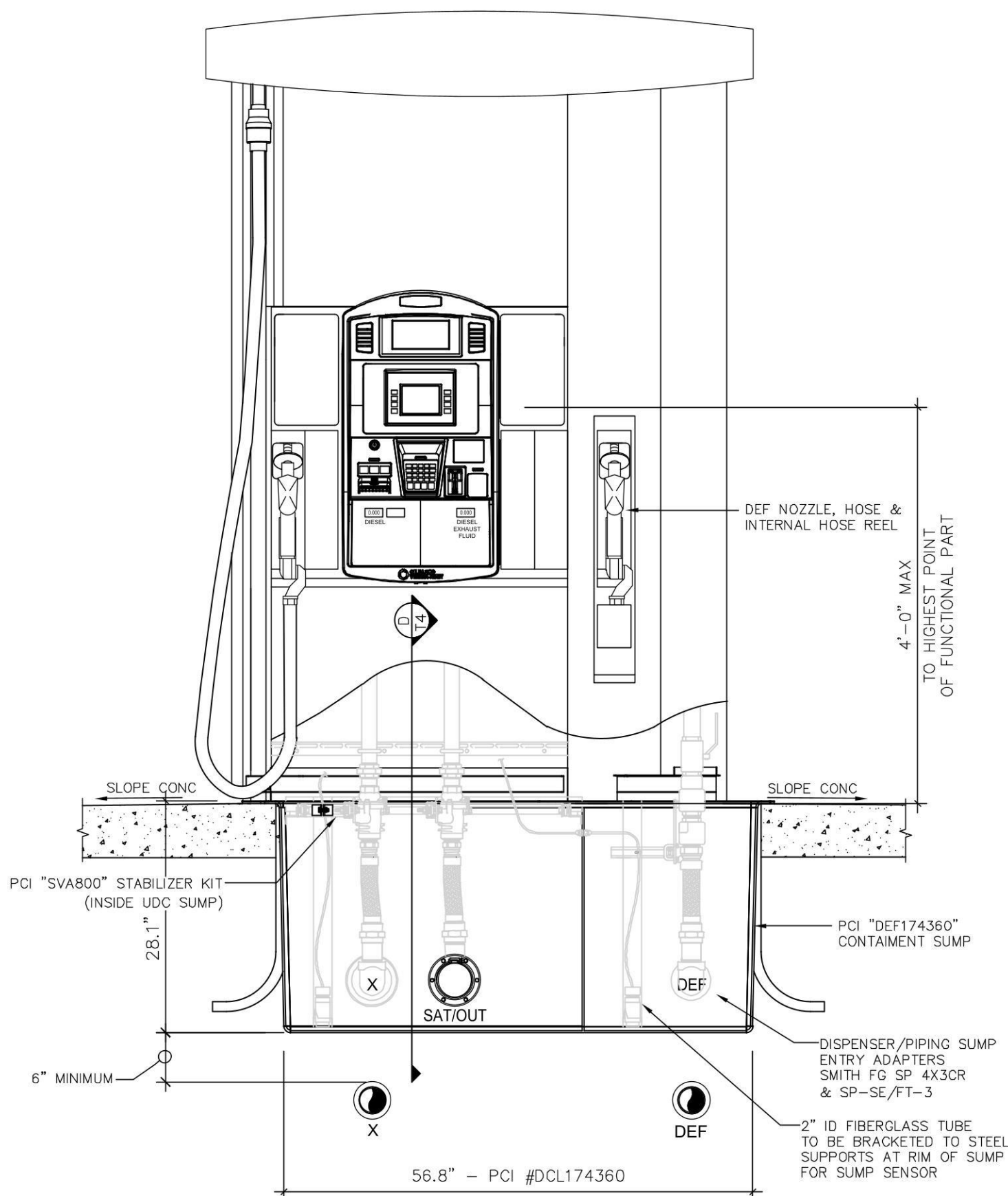


DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)

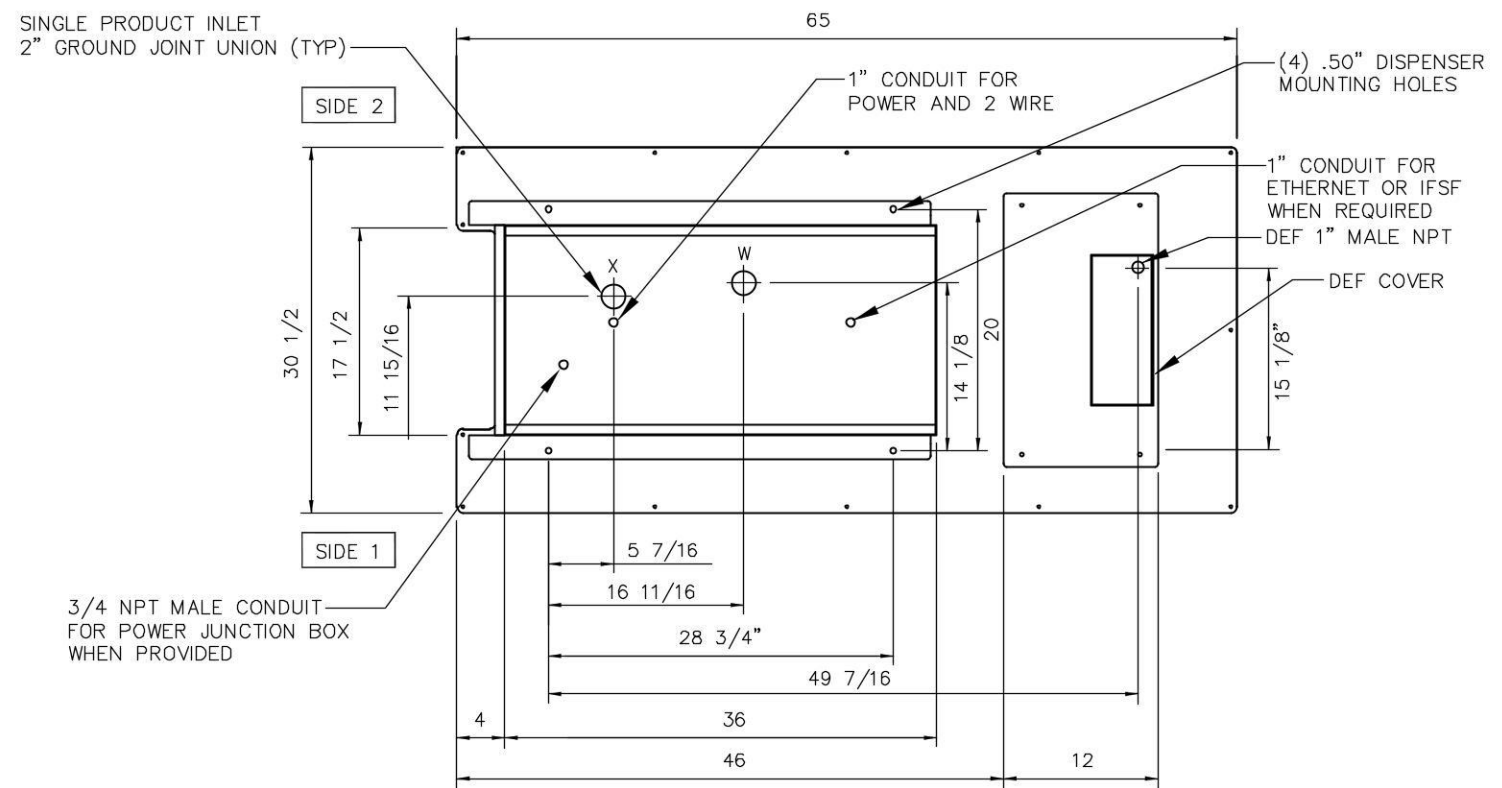


UDC - REAR VIEW

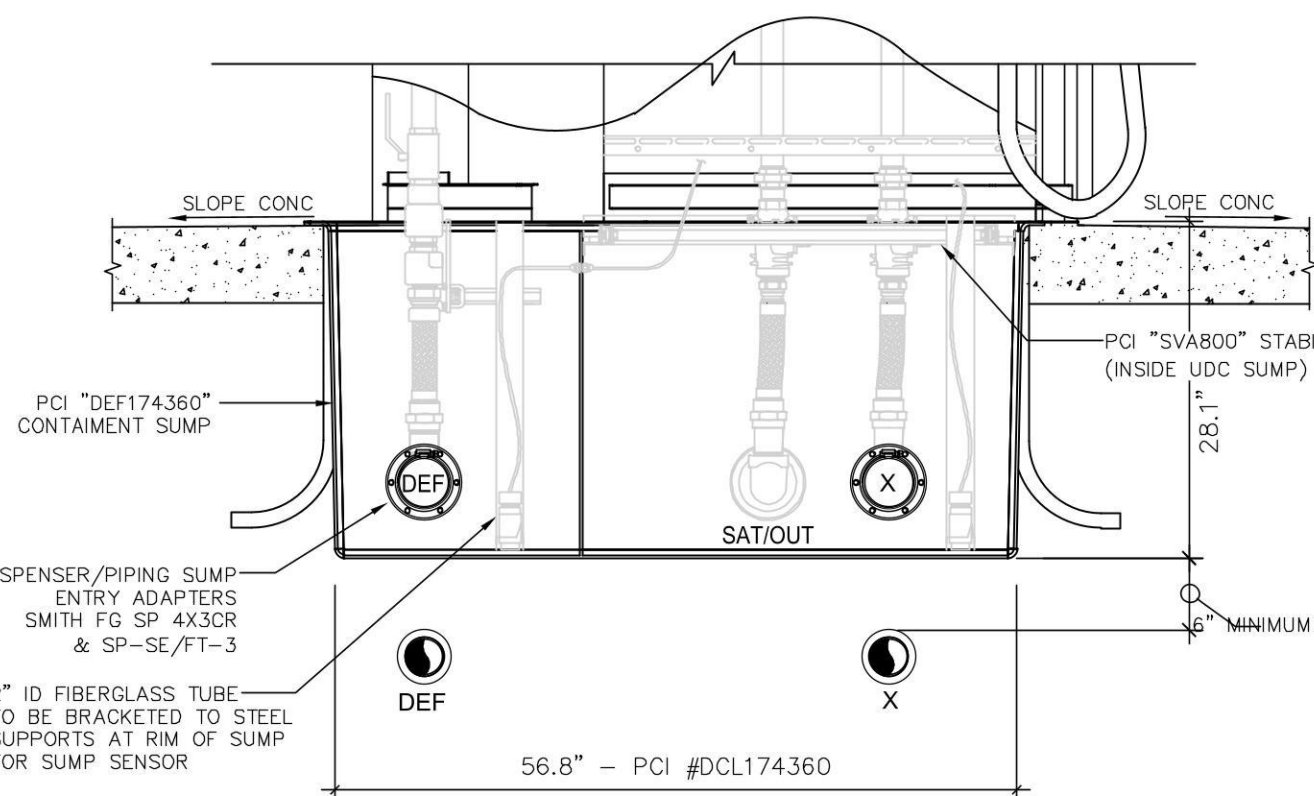
GILBARCO 700S 3+1+1 DISPENSER
(AUTO FUEL ISLANDS)
SCALE: 3/4"=1'-0"



UDC - FRONT VIEW

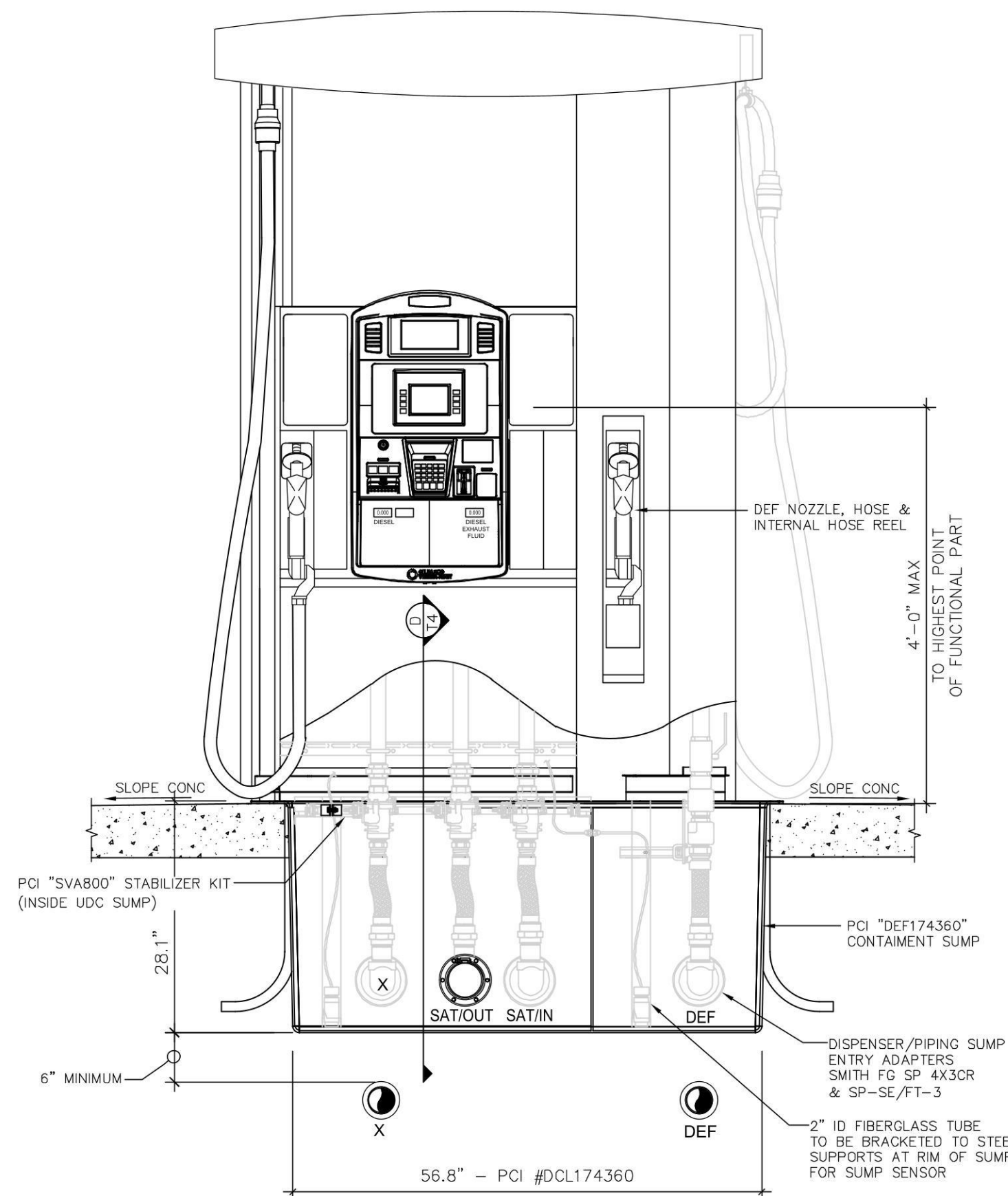


DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)

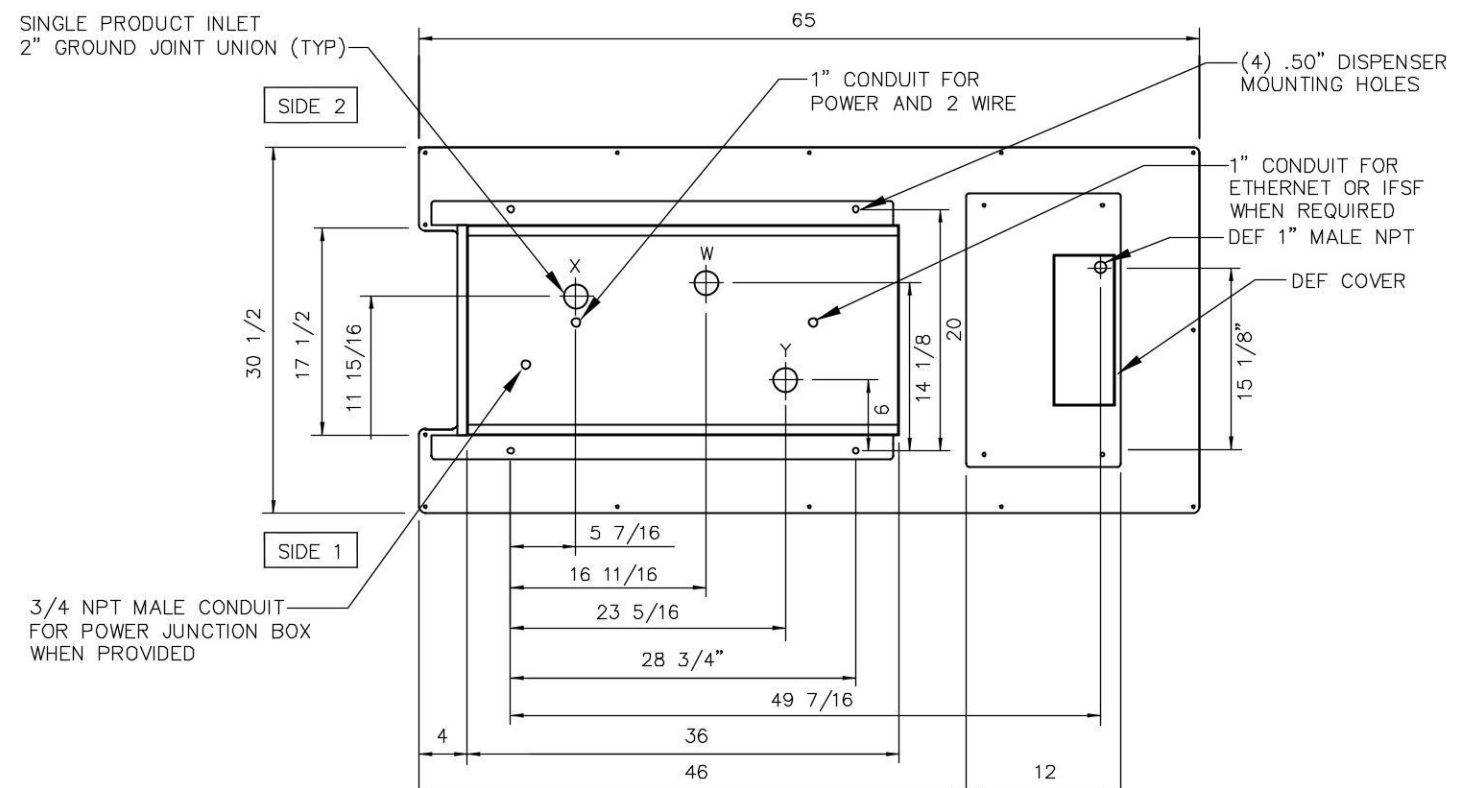


UDC - REAR VIEW

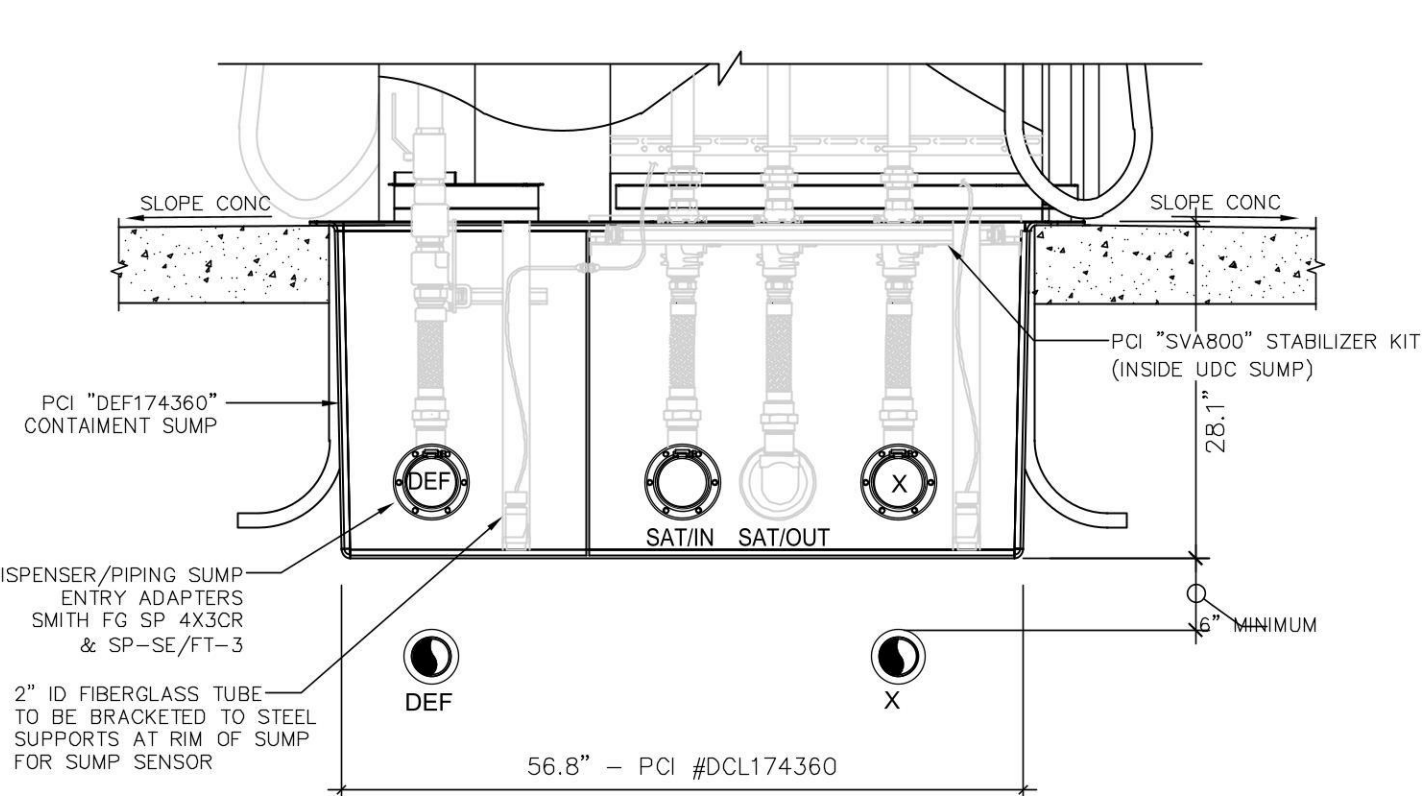
GILBARCO ENCORE - MASTER WITH
DEF (TRUCK FUEL ISLANDS)
SCALE: 3/4"=1'-0"



UDC - FRONT VIEW

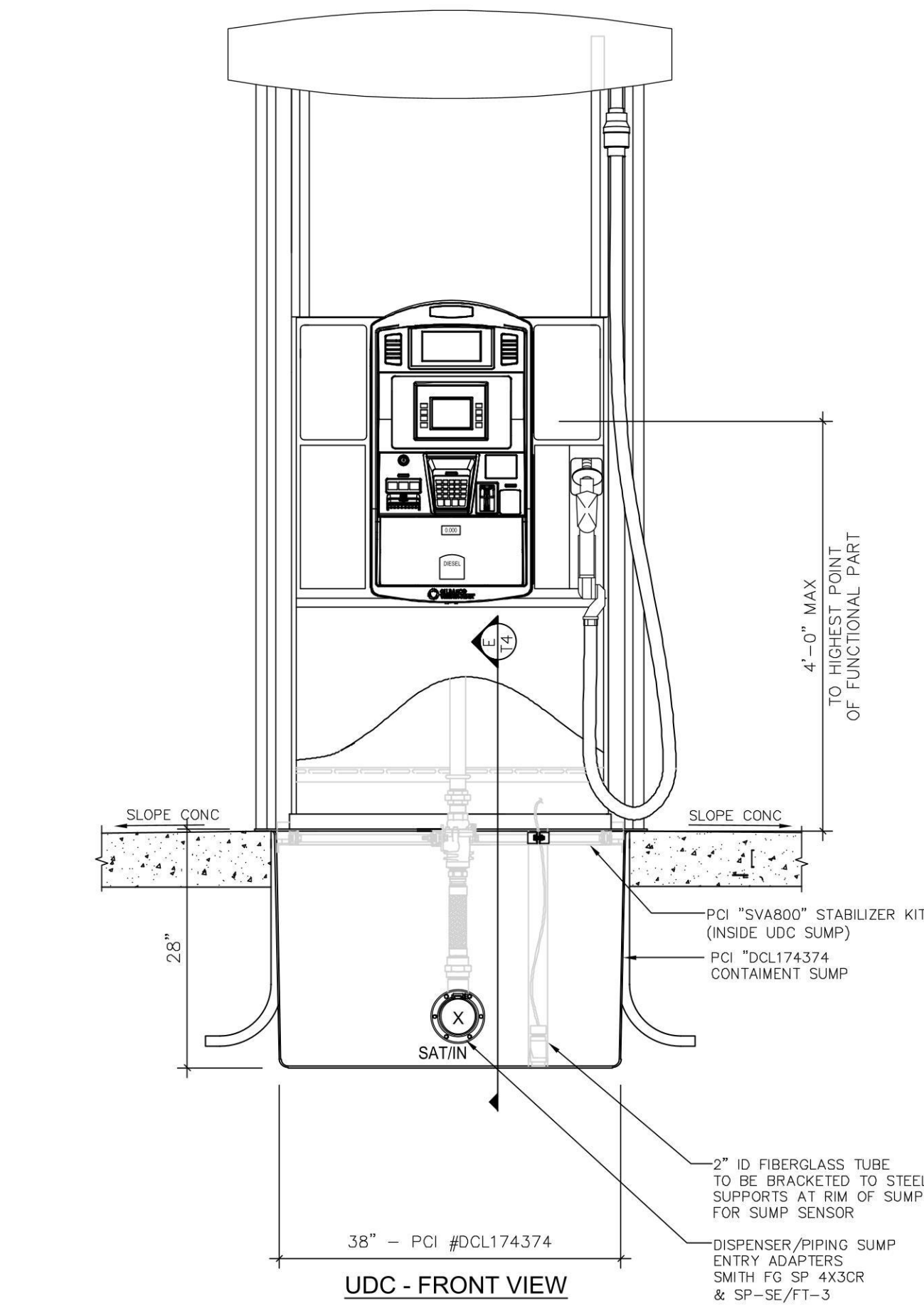


DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)

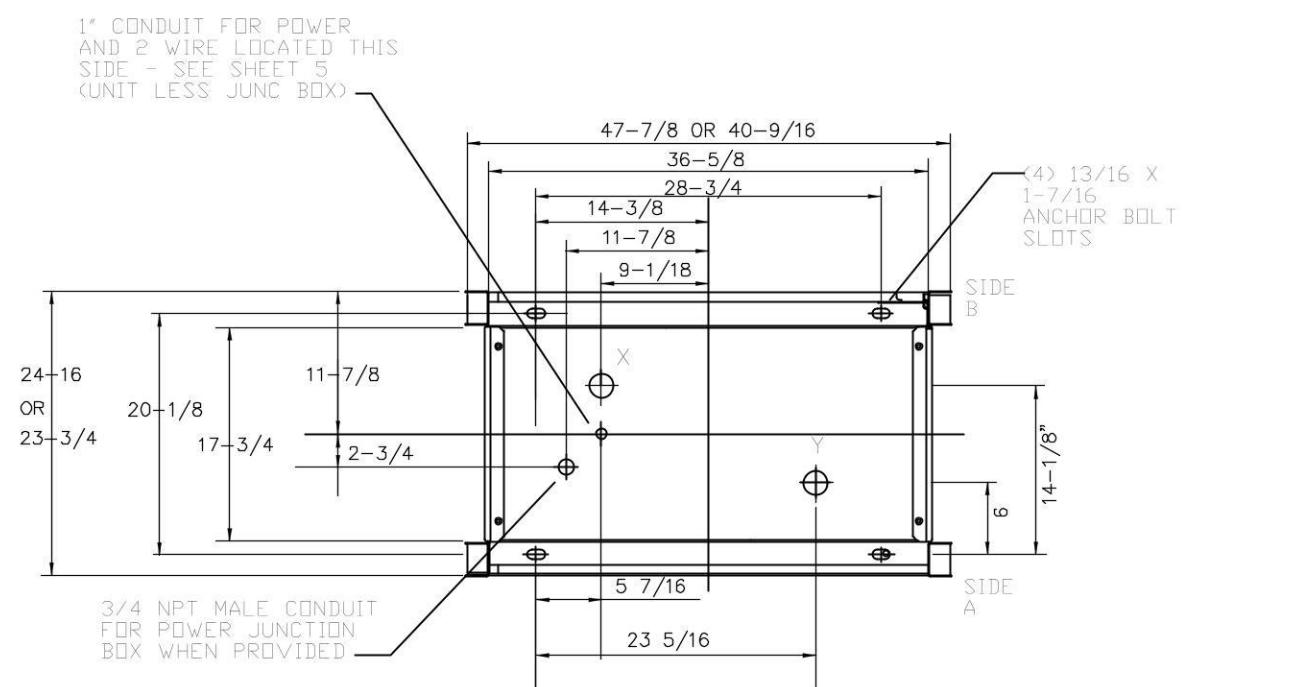


UDC - REAR VIEW

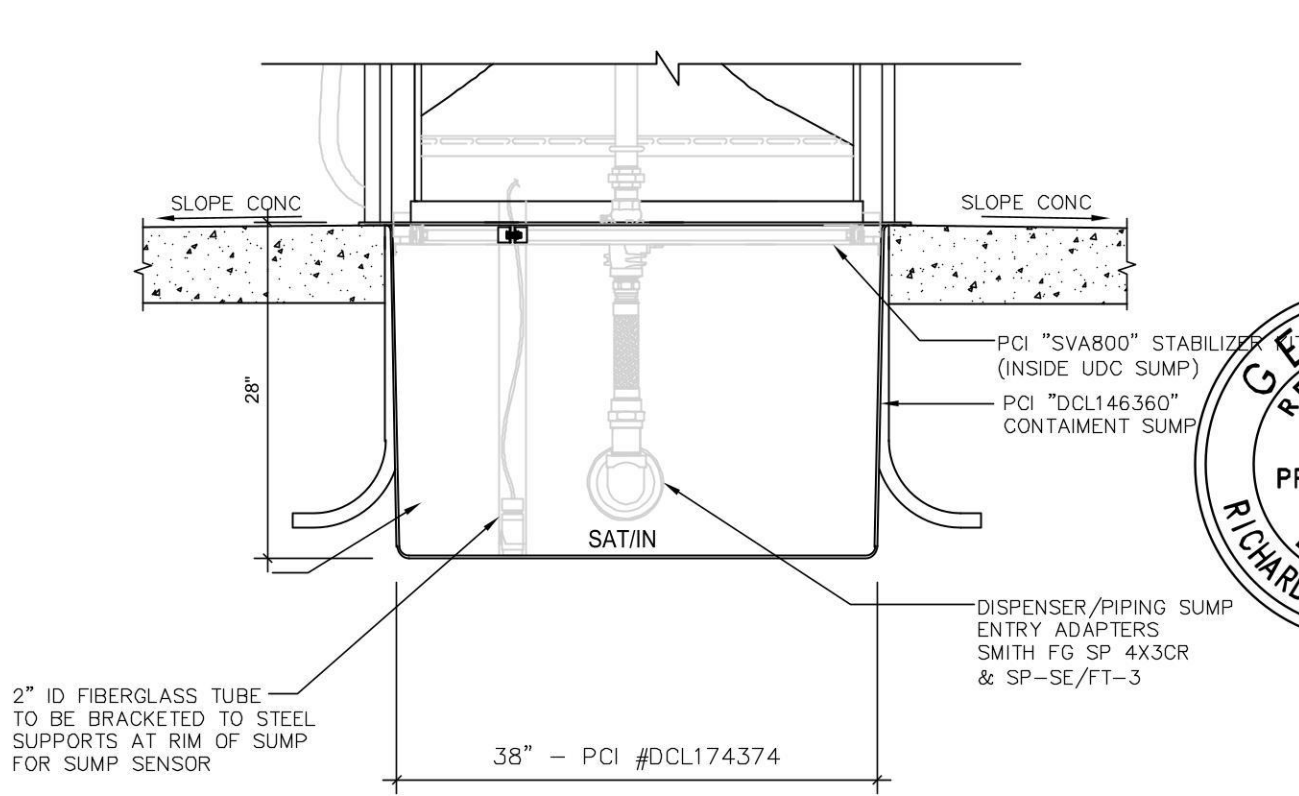
GILBARCO ENCORE - MASTER/SATELLITE
COMBO WITH DEF (TRUCK FUEL ISLANDS)
SCALE: 3/4"=1'-0"



UDC - FRONT VIEW



DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)



UDC - REAR VIEW

GILBARCO NP5 - SINGLE SIDED
SATELLITE (TRUCK FUEL ISLANDS)
SCALE: 3/4"=1'-0"

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DESIGN PROFESSIONALS

MDM
PLANS PREPARED BY:
engineering • environmental • construction
2151 W HILLSBORO BLVD. STE 401 DEERFIELD BEACH, FL 33442
(561) 427-3076
FL CA 000457

ISSUE/REVISION RECORD
DATE DESCRIPTION

RaceTrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY SE
SUITE 900
ATLANTA, GEORGIA 30339
(770) 431-7600

PROJECT NAME
ANVIL BLOCK

**ELLENWOOD
GEORGIA
4443 DUNN COURT**

RACETRAC PROJECT NUMBER
1478

PLAN SERIES
2011 BR-RH-M90 0801

PLAN MODIFICATION NOTICE

NO MODIFICATIONS APPLIED
MODIFICATIONS APPLY
SPB NO. N/A DATE N/A

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RACETRAC ENGINEERING AND
CONSTRUCTION FOR ALL BULLETINS.

PROFESSIONAL SEAL

GEORGIA REGISTERED
No. 013997
PROFESSIONAL
ENGINEER
RICHARD RUSSELL MORRIS

RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER
21056

SHEET TITLE & NUMBER

**DISPENSER &
SUMP ELEVATION
DETAILS**

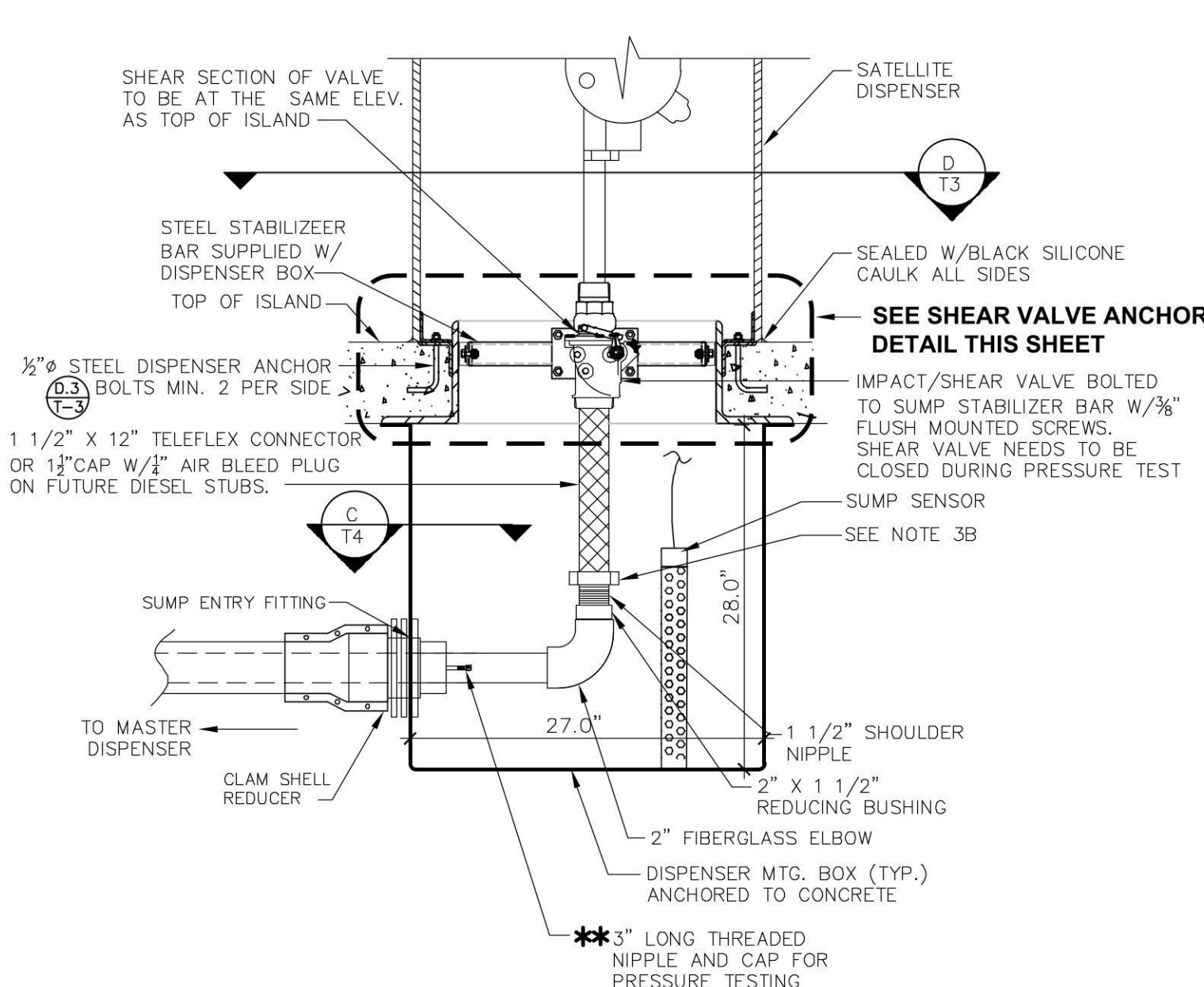
FILE NUMBER

T3.1

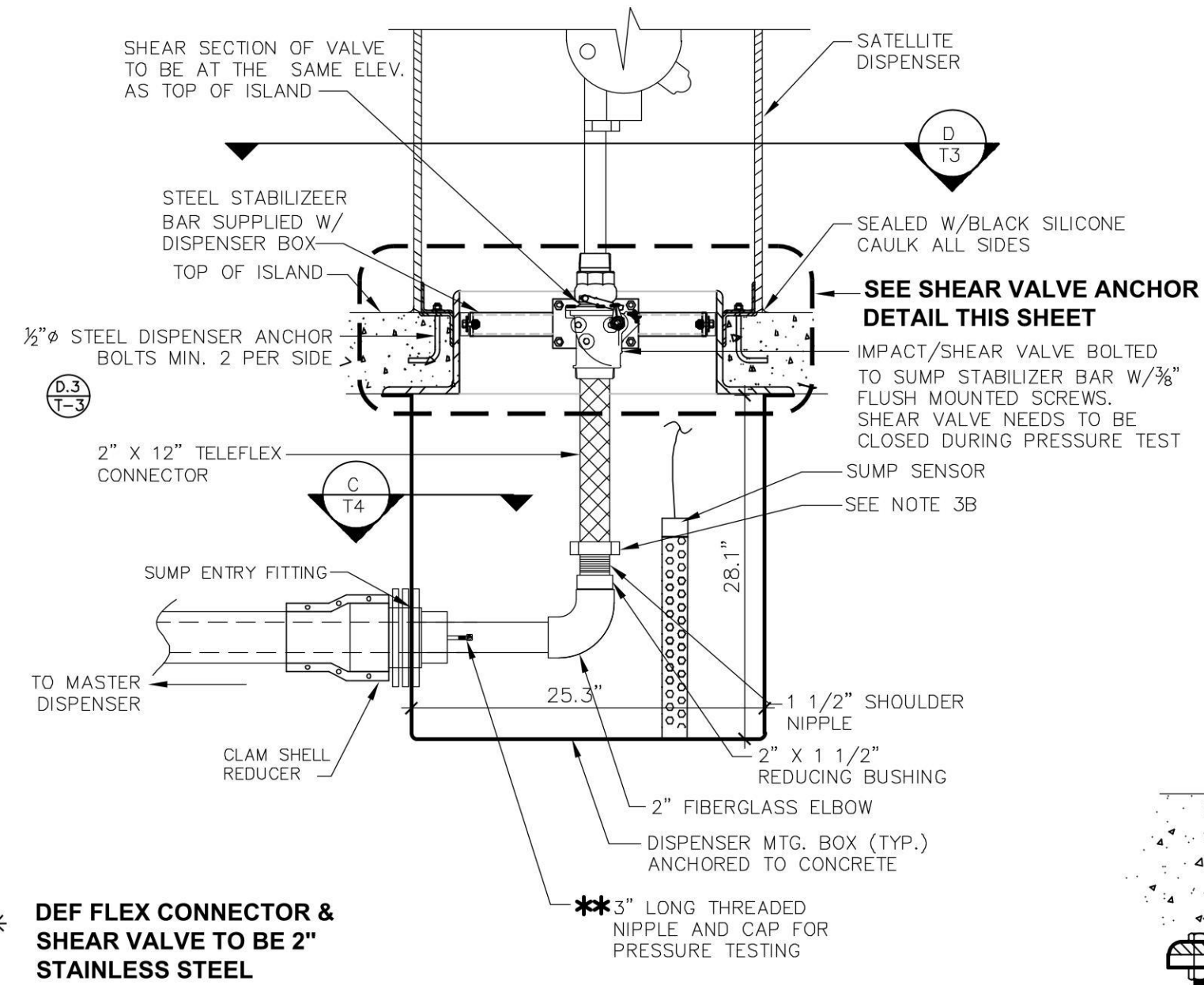
ISSUED FOR CONSTRUCTION

SHEAR SECTION OF VALVE TO BE AT THE SAME ELEV. AS TOP OF ISLAND
 STEEL STABILIZER BAR SUPPLIED W/ DISPENSER BOX
 TOP OF ISLAND
 1/2" STEEL DISPENSER ANCHOR BOLTS MIN. 2 PER SIDE
 1 1/2" x 12" TELEFLEX CONNECTOR OR 1 1/2" CAP W/ 1/2" AIR BLEED PLUG ON FUTURE DIESEL STUBS.
 SUMP SENSOR
 3"-0" MAXIMUM SUMP ENTRY FITTING
 CLAM SHELL REDUCER
 FIBERGLASS PIPING
 SECONDARY CONTAINMENT
 DIESEL PRODUCT
 MASTER SATELLITE DISPENSER TYP.
 SEALED W/ BLACK SILICONE CAULK ALL SIDES
SEE SHEAR VALVE ANCHOR DETAIL THIS SHEET
 IMPACT/ SHEAR VALVE BOLTED TO SUMP STABILIZER BAR W/ 3/8" FLUSH MOUNTED SCREWS. SHEAR VALVE NEEDS TO BE CLOSED DURING PRESSURE TEST
 SEE NOTE 3B
 1 1/2" SHOULDER NIPPLE
 2" x 1 1/2" REDUCING BUSHING
 2" FIBERGLASS ELBOW
 DISPENSER MTG. BOX (TYP.) ANCHORED TO CONCRETE
 3" LONG THREADED NIPPLE AND CAP FOR PRESSURE TESTING
 TO SATELLITE DISPENSER

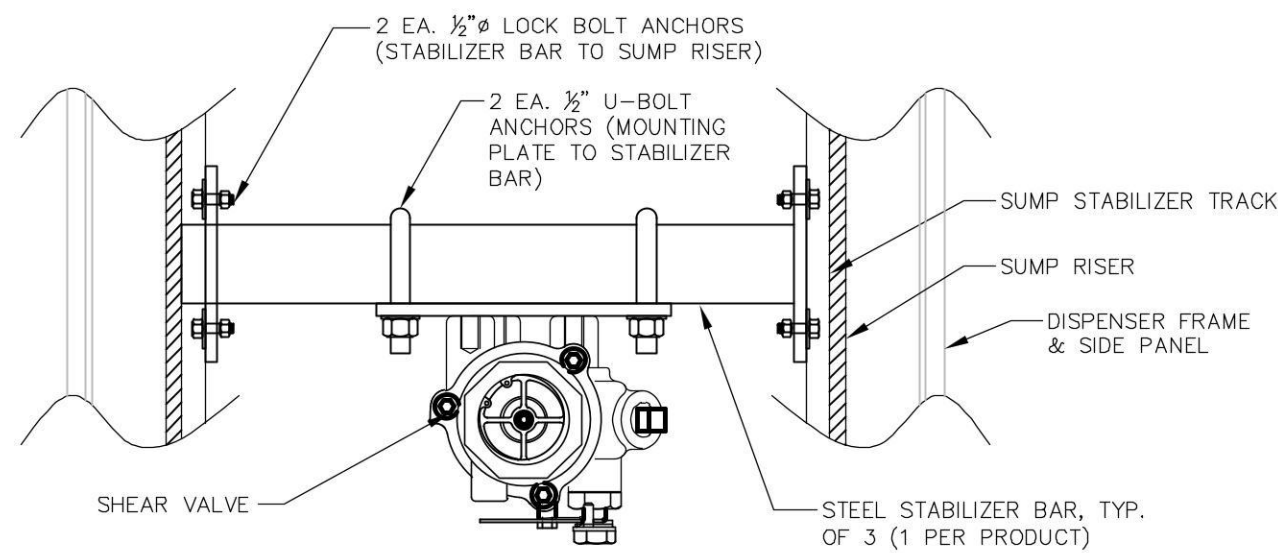
**** TEST BOOTS SHALL BE SITUATED TO ALLOW FLUID TO FLOW INTO SUMPS**



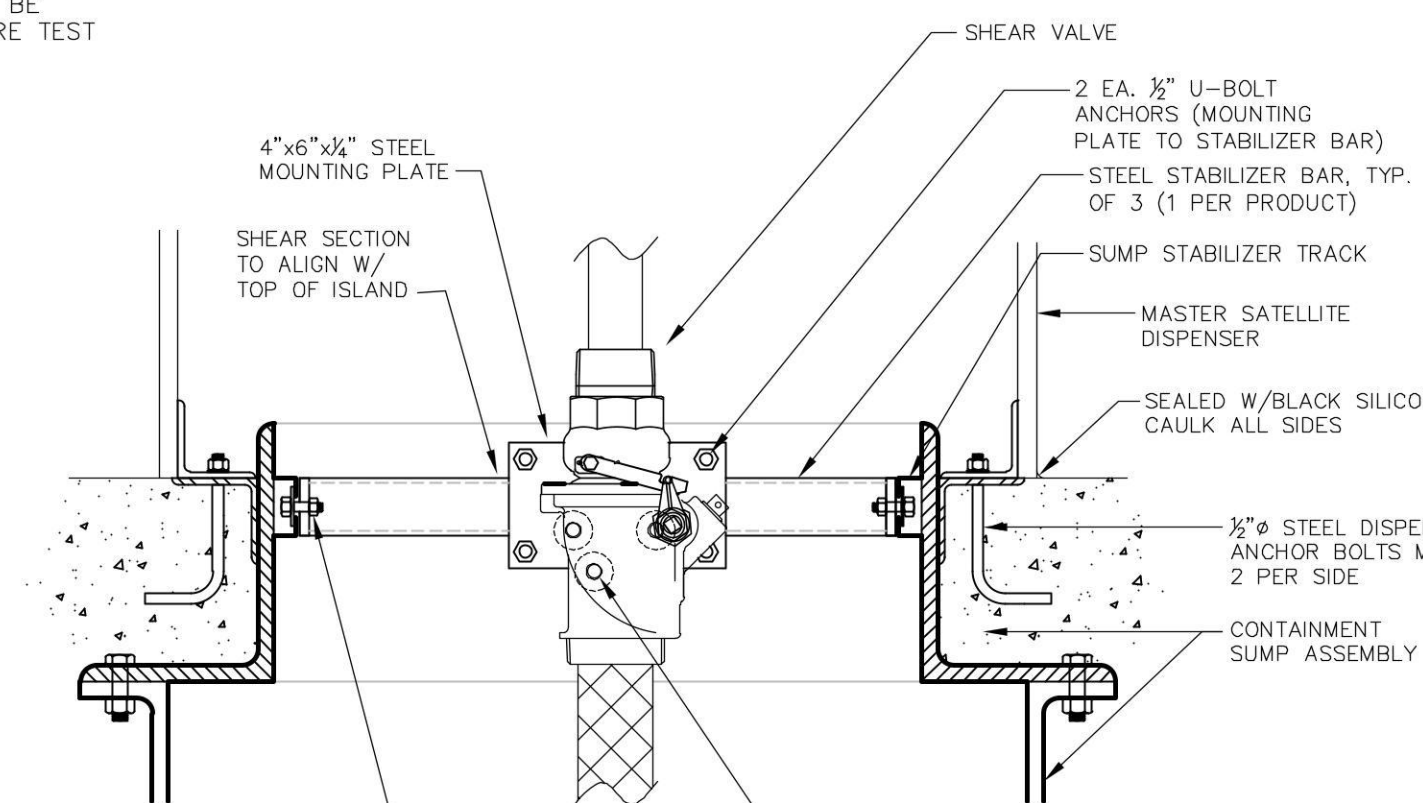
****TEST BOOTS SHALL BE SITUATED TO ALLOW FLUID TO FLOW INTO SUMPS**



****TEST BOOTS SHALL BE SITUATED TO ALLOW FLUID TO FLOW INTO SUMPS.**



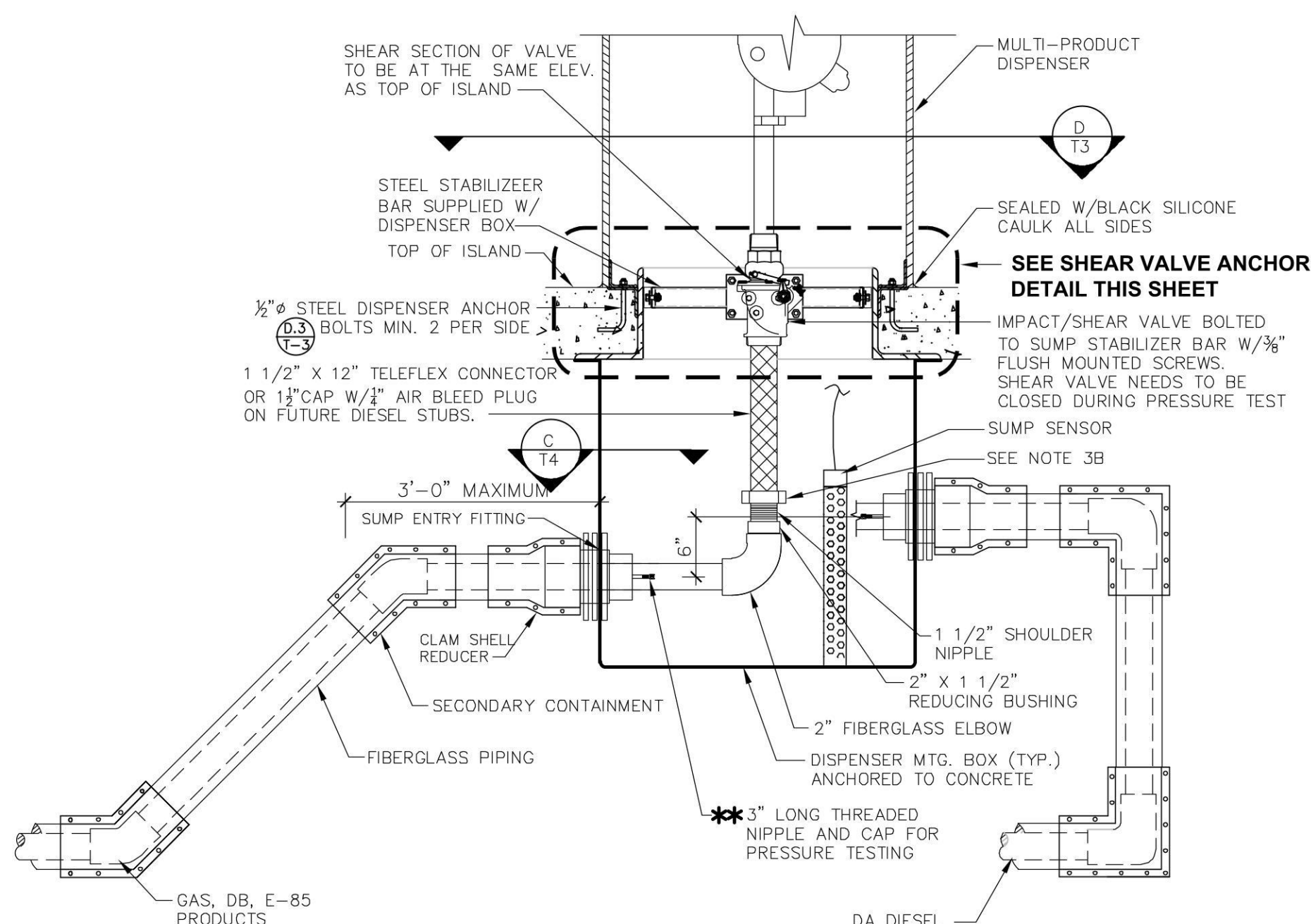
SHEAR VALVE ANCHOR DETAIL – PLAN – TRUCK ISLANDS



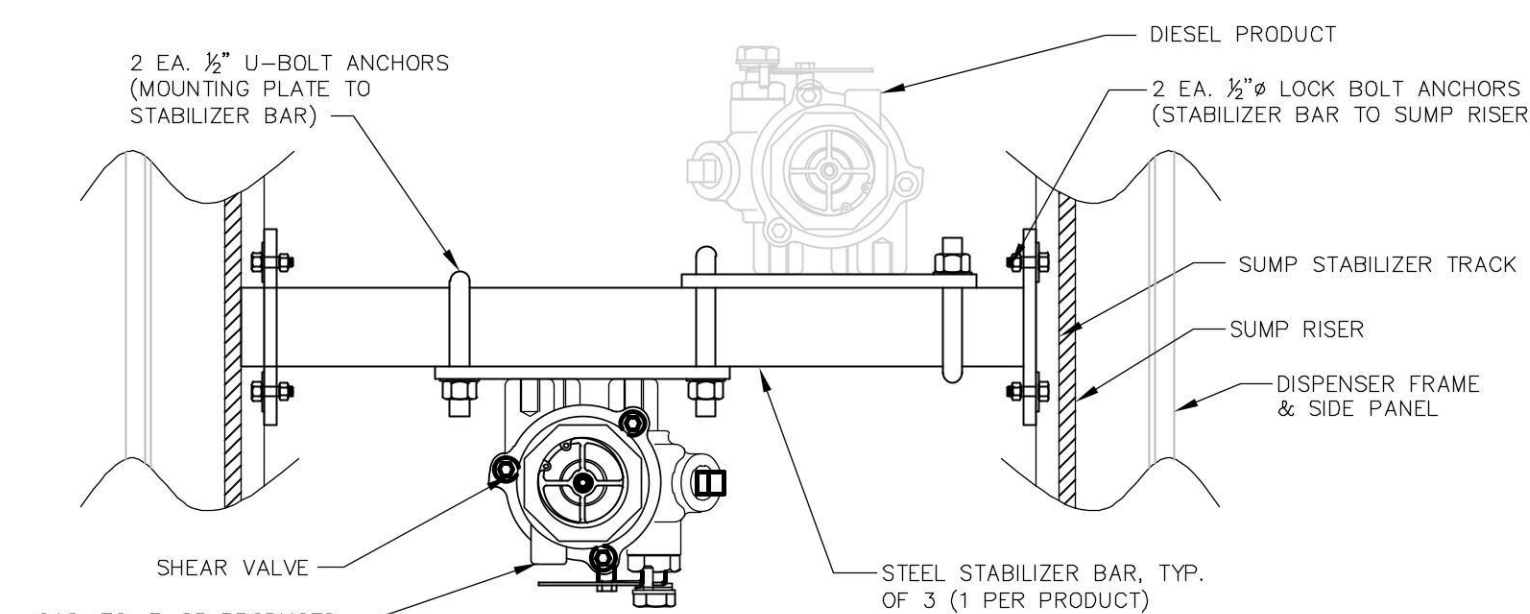
SHEAR VALVE ANCHOR DETAIL – ELEVATION – TRUCK ISLANDS

SHEAR SECTION OF VALVE TO BE AT THE SAME ELEV. AS TOP OF ISLAND
 STEEL STABILIZER BAR SUPPLIED W/ DISPENSER BOX TOP OF ISLAND
 1/2" Ø STEEL DISPENSER ANCHOR BOLTS MIN. 2 PER SIDE
 1 1/2" X 12" TELEFLEX CONNECTOR OR 1 1/2" CAP W/ 1/2" AIR BLEED PLUG ON FUTURE DIESEL STUBS.
 3'-0" MAXIMUM SUMP ENTRY FITTING
 GLAM SHELL REDUCER
 FIBERGLASS PIPING
 SECONDARY CONTAINMENT
 GAS, DB, E-85 PRODUCTS
 DA DIESEL PRODUCT
 MULTI-PRODUCT DISPENSER
 D 1.3
 SEALED W/ BLACK SILICONE CAULK ALL SIDES
SEE SHEAR VALVE ANCHOR DETAIL THIS SHEET
 IMPACT/SHEAR VALVE BOLTED TO SUMP STABILIZER BAR W/ 3/4" FLUSH MOUNTED SCREWS. SHEAR VALVE NEEDS TO BE CLOSED DURING PRESSURE TEST
 SUMP SENSOR
 SEE NOTE 3B
 1 1/2" SHOULDER NIPPLE
 2" X 1 1/2" REDUCING BUSHING
 2" FIBERGLASS ELBOW
 DISPENSER MTG. BOX (TYP.) ANCHORED TO CONCRETE
 3" LONG THREADED NIPPLE AND CAP FOR PRESSURE TESTING

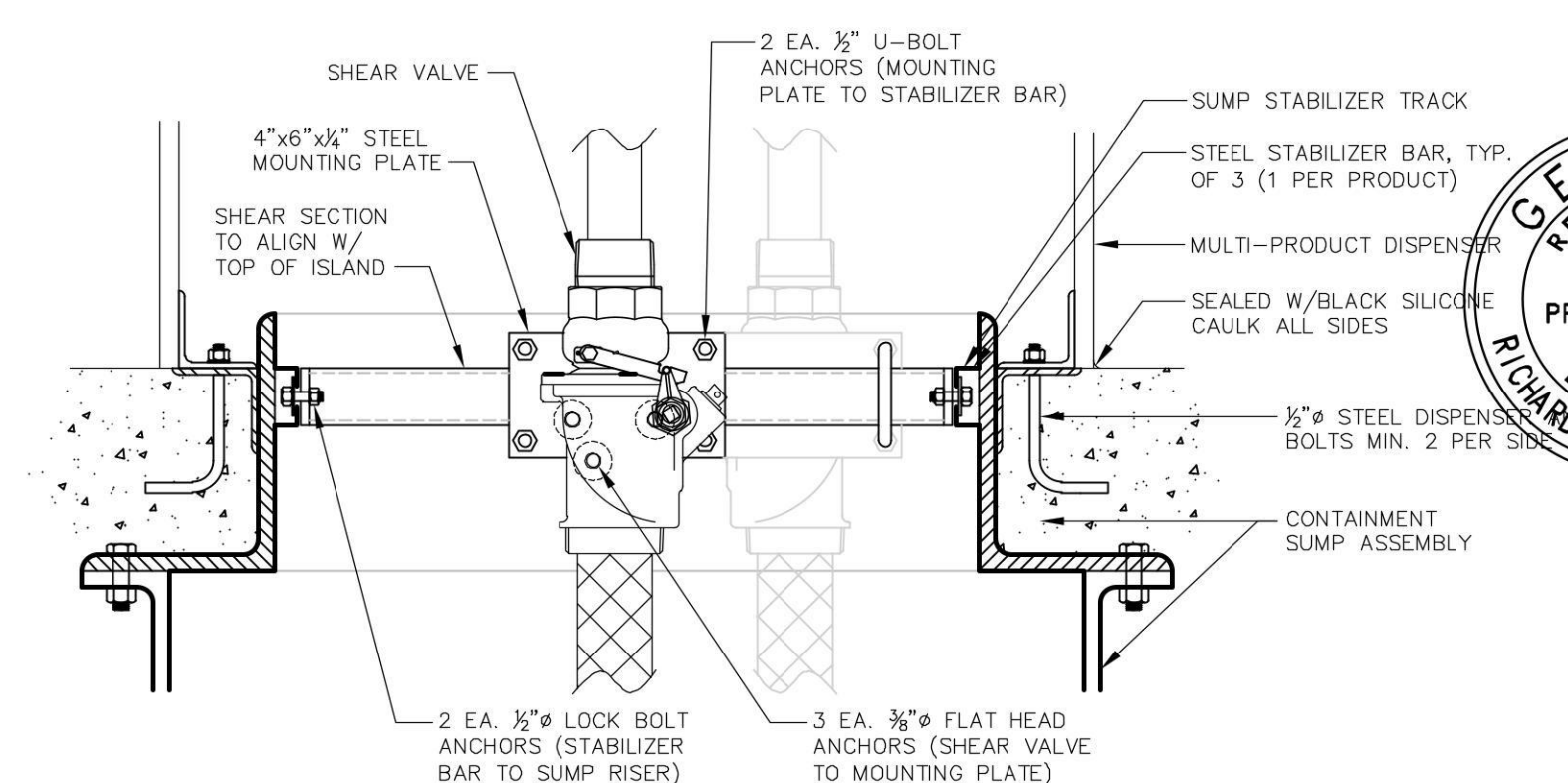
**** TEST BOOTS SHALL BE SITUATED TO ALLOW FLUID TO FLOW INTO SUMPS**



* TEST ROOTS SHALL BE SITUATED TO



SHEAR VALVE ANCHOR DETAIL – PLAN – AUTO ISLANDS



SHEAR VALVE ANCHOR DETAIL – ELEVATION – AUTO ISLANDS

[illegible]

1478

☐ MODIFICATIONS APPLY

SPB NO. N/A **DATE** N/A

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Professional Engineer Seal for Georgia, Registered Professional Engineer, No. 013997, Richard Russell Morris.

Digitally signed by
Richard R Morris
Date: 2021.03.22
16:44:34-04'00'

RICHARD R. MORRIS
GA REG # PE013997

PROJECT NUMBER
21056

SHEET TITLE & NUMBER

DISPENSER SUMP DETAILS

FILE NUMBER

T4.0

ISSUED FOR CONSTRUCTION

1. ALL CLAMPS ON SECONDARY CONTAINMENT TO BE TORQUED TO 60 FT. LBS.
2. SEE SITE PLAN FOR SPECIFIC TANK AND DISPENSER QUANTITIES, LOCATIONS, CAPACITIES, ETC.
3. ALL THREADED METAL PIPE CONNECTIONS TO BE MADE UP WITH GASOLINA-E-SEAL FOR GASOLINE LINES AND JOMAR "THE HEAVYWEIGHT" FOR DIESEL LINES. NO SUBSTITUTIONS WILL BE ACCEPTED.
4. ALL CONNECTIONS OF FIBER GLASS PIPE THREADED COUPLINGS TO METAL PIPE SHALL BE DONE USING 7000 OR 8000 SERIES ADHESIVE.
5. CONTRACTOR TO CHECK ALL FACTORY CONNECTIONS ON DISPENSER MOUNTING BOXES FOR ADEQUATE SEALING OF PRODUCT.
6. ALL FIBERGLASS PIPING & FITTINGS TO BE A.O. SMITH RED THREAD II FIBERGLASS
7. ALL PIPING (PRODUCT, STAGE TWO VAPOR RECOVERY, SECONDARY CONTAINMENT) TO SLOPE 1/8" PER FOOT BACK TO TANK.
8. USE ONLY 8000 OR 7000 SERIES ADHESIVES TO JOIN PRIMARY PRODUCT AND SECONDARY CONTAINMENT PIPE AND FITTINGS (DS-8014, DS-8024, DS-8055, DS-8069, DS-7014, DS-7024, OR DS-7069 ADHESIVE KITS) FOR ALCOHOLS AND ALCOHOL-GASOLINE MIXTURES, WHEN JOINING SECONDARY CONTAINMENT FITTINGS, A SPECIAL FILLER FROM SMITH FIBERGLASS PRODUCTS MUST BE ADDED TO THE 8000 AND 7000 SERIES ADHESIVES. WHEN USING THESE ADHESIVES, FOLLOW THE INSTRUCTIONS PACKAGED WITH EACH ADHESIVE KIT.
9. ALL DISPENSER BOY PENETRATIONS TO BE TESTED WITH WATER FOR LEAKS PRIOR TO BACKFILLING AROUND BOY.
10. ALL STAGE TWO VAPOR RECOVERY LINES TO BE BLOCK TESTED BY G.C. PRIOR TO PAVING OVER PIPING.
11. G.C. RESPONSIBLE FOR PAINTING ALL EXPOSED METAL ON VENT RISERS AND SUPPORTS.
12. ALL GALVANIZED RISER PIPE & FITTINGS THAT COMES IN CONTACT WITH BACKFILL SOIL OR PEA GRAVEL IS TO BE COATED WITH A BITUMINOUS COATING AND WRAPPED W/3M TAPE FOR CORROSION PROOFING.
13. SECONDARY TO SECONDARY IS OPEN IN AT LEAST ONE FITTING IN THE SUMP.
14. ALL PIPING AND ELECTRICAL INSTALLATIONS MUST CONFORM TO ALL APPLICABLE REGULATION INCLUDING NFPA30, FLAMMABLE & COMBUSTIBLE LIQUIDS CODE; NFPA30A, AUTOMOTIVE & MARINE SERVICE STATION CODE; NFPA70, NATIONAL ELECTRICAL CODE. DO NOT "DAISY CHAIN" THE DISPENSER POWER CIRCUIT TO ANY OTHER EQUIPMENT.
15. SLOPE PIPING FROM TANK TO DISPENSER UPWARDS, AVOIDING AIR OR LIQUID TRAPS.
16. USE UNIVERSAL JOINTS AT DISPENSER TO ALLOW FOR GROUND MOVEMENT.
17. USE ANY OR ALL CONDUIT TAPS SHOWN TO MAKE ELECTRICAL CONNECTIONS TO DISPENSER.
18. FIRMLY MOUNT DISPENSER TO THE ISLAND USING THE ANCHOR BOLT LOCATIONS SHOWN.
19. BREAKAWAY DEVICES ARE EXAMPLES OF REQUIREMENTS STATED IN THE NFPA30A AUTOMOTIVE & MARINE SERVICE STATION CODE. THESE, AS WELL AS ANY OTHER SAFETY DEVICES REQUIRED BY NFPA30 & 30A, MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS.
20. SPEAKER INSTALLATION WIRING IS LOCATED IN JUNCTION BOX. CONNECT INTERCOM CIRCUIT TO A LISTED CLASS 2 POWERED INTERCOM ONLY WITH BELDEN #86723, 22GA, 2-PAIR, 300 VOLT SHIELDED CABLE. WIRES BACK TO INTERCOM CONSOLE MUST BE RUN IN SEPARATE DEDICATED CONDUIT.
21. ALL EQUIPMENT USED FOR E85 FUEL SHALL BE COMPATIBLE WITH THE PRODUCT.



100% 100% 100% 100% 100% 100%

- 1.0 REFERENCE TO GENERAL CONTRACTOR IS DENOTED BY G.C.
- 2.0 THE WORK COMPLETED UNDER THESE SECTION(S) WILL INCLUDE ALL TANK(S), PIPING, EQUIPMENT AND RELATED INSTALLATION WORK NECESSARY FOR A COMPLETE AND OPERATING PETROLEUM PRODUCT STORAGE, HANDLING AND DISPENSING SYSTEM. THE REQUIREMENTS SPECIFIED HEREIN SHALL SUPPLEMENT THOSE SPECIFIED BY THE OWNER'S "REQUIREMENTS FOR GENERAL CONSTRUCTION". REFER TO THE SCOPE OF WORK, PLANS OR INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE FOR SITE SPECIFIC DETAILS AND REQUIREMENTS.
- 3.0 ALL WORK SHALL BE PERFORMED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH FEDERAL "UNDERGROUND STORAGE TANKS: TECHNICAL REQUIREMENTS" (40CFR PART 280), STATE AND MUNICIPAL REQUIREMENTS, AND MOST CURRENT EDITIONS OF THE APPLICABLE NPRA, PEI, AND API REFERENCE STANDARDS.
- 4.0 G.C. SHALL KEEP SITE FREE OF WASTES AND RUBBISH AT ALL TIMES.
- 5.0 G.C. SHALL ENSURE COMPLIANCE WITH O.S.H.A. AND ALL OTHER REGULATIONS AND RACETRAC'S CONTRACTUAL REQUIREMENTS. ASSOCIATED COMPLIANCE EXPENSES, EXCEPT AS DESCRIBED IN B-1,3, SHALL BE G.C. RESPONSIBILITY.
- 6.0 WHERE INSTALLATIONS ARE MADE AT AN EXISTING STATION OR STORE, WORK SHALL BE SCHEDULED AND PERFORMED SO AS TO MINIMIZE INTERFERENCE WITH THE OPERATION OF THOSE FACILITIES. ALL DEBRIS EXCESS EXCAVATED MATERIALS, MACHINERY, AND EQUIPMENT SHALL BE REMOVED DAILY AND MAINTAINED CLEAR OF OPEN DRIVEWAYS AT ALL TIMES. LIGHTED SAFETY BARRICADES SHALL BE PROVIDED FOR THE PUBLIC'S PROTECTION. WHEN IT BECOMES NECESSARY TO CLOSE A DRIVEWAY, OWNERS REPRESENTATIVE SHALL BE NOTIFIED 72 HRS PRIOR TO CLOSURE.
- 7.0 ALL EQUIPMENT, MATERIALS, PIPING, TANKS AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S INSTRUCTIONS.
- 8.0 ALL LOCAL REGULATIONS MUST BE FOLLOWED.

- 1.0 EVACUATE PRODUCT FROM TANKS AND LINES.
- 1.1 FOR STP SYSTEM, DRAIN LINES INTO TANK BY REMOVING STP CHECK VALVE AND OPENING SAFETY VALVE TEST PORT. DISCONNECT STP UNION / SWING AND DRAIN PRODUCT INTO AN APPROVED CONTAINER.
- 1.2 DO NOT BLOW OUT LINES WITH COMPRESSED AIR, USE NITROGEN. PRODUCT REMOVED FROM LINES BECOMES PROPERTY OF G.C. AND MAY BE USED AS MOTOR FUEL.
- 1.3 REMOVE LIQUID & TANK BOTTOMS USING A VACUUM TRUCK IN LIEU OF ON-SITE STORAGE CONTAINERS. DEPENDING ON LOCAL REGULATIONS, RECOVERED MATERIAL MAY BE MANAGED AS OFF-SPEC PRODUCT, SOLID INDUSTRIAL OR HAZARDOUS WASTE. IF MATERIAL MUST BE MANAGED AS A HAZARDOUS WASTE, FOLLOW OWNER'S ENVIRONMENTAL REQUIREMENTS FOR HANDLING, MANIFESTING AND DISPOSAL. ONLY OWNER APPROVED HAZARDOUS WASTE DISPOSAL FACILITIES SHALL BE USED. CONSULT THE APPROPRIATE ENVIRONMENTAL ENGINEERING CONTACT FOR PROCESSING ASSISTANCE IN ALL CASES.
- 2.0 EXCAVATE TO TANK TOP, REMOVE ALL TANK APPURTENANCES, PLUG ALL OPENINGS, REMOVE TANK AND PLACE IN A SECURE LOCATION. ONE TANK PLUG MUST HAVE AN 1/8" HOLE IN PLUG FOR VENTING.
- 3.0 REPEAT B-1.3 THROUGH ALL TANK FITTINGS TO REMOVE REMAINING RESIDUE. RESIDUE SHALL BE MANAGED PER B-1.3.
- 4.0 DECREASE TANK TO LESS THAN 10% OF THE LOWER EXPLOSION LIMIT (LEL) PER THE FOLLOWING.
PREFERRED METHOD (INERTING):
INERT VAPORS BY ADDING A MINIMUM OF 1.5 LBS DRY ICE, PER 100 GALLONS OF TANK CAPACITY.
ALTERNATE METHOD (PURGING):
VENTILATE TANK USING AN EVACUATOR OR DIFFUSER. (EVACUATOR MUST EXTEND 12 FT. MINIMUM ABOVE TANK TOP. A VENT LINE EXTENDING 12 FT. MINIMUM ABOVE TANK TOP MUST BE ATTACHED TO TANK WHEN USING A DIFFUSER).
- 5.0 ALL TANKS MUST BE DEGASSED AND CERTIFIED "CLEAN" BY G.C.
- 6.0 PRIOR TO TRANSPORTING ANY TANK FROM SITE, LEGIBLY LABEL AS FOLLOWS:
"TANK HAS CONTAINED FLAMMABLE LIQUIDS. NOT GAS FREE. NOT SUITABLE FOR FOOD OR DRINKING WATER."
- 7.0 OWNER'S ENGINEER SHALL INSPECT OPEN EXCAVATION FOR EVIDENCE OF ALL HYDROCARBON RELEASE.

- 1.0 SIDES OF TANK HOLE EXCAVATION SHALL BE SLOPED IN ACCORDANCE WITH O.S.H.A. "CONSTRUCTION SAFETY & HEALTH REGULATIONS", SUBPART P-EXCAVATIONS, TRENCHING 1562650 THRU 1926653, RECOMMENDATIONS. FILTER FABRIC CLOTH SHALL BE USED TO LINE BOTTOM AND SIDES OF TANK HOLE PRIOR TO GRAVEL BACKFILL. FILTER FABRIC CLOTH SHALL ALSO LAP TOP OF TANKS TO PREVENT INFILTRATION OF EARTH INTO TANK AREAS.
- 2.0 EXCAVATION SHALL BE SIZED TO PROVIDE A MINIMUM 1FT TANK BED, 3FT BETWEEN TANKS AND 2FT BETWEEN TANK SIDES/ENDS AND EXCAVATION WALLS.
- 3.0 OWNER RESERVES THE RIGHT TO DESIGN AND/OR CONSTRUCT SHORING UNDER AN AMENDED AGREEMENT WITH G.C. OR SEPARATELY WITH ANOTHER COMPANY. IF OWNER ENGAGES G.C., G.C. SHALL SUBMIT SHORING DESIGN TO OWNER'S ENGINEER FOR APPROVAL. SUPPLEMENTAL JOB SCOPE AND COST SHALL BE AGREED TO IN TERMS OF A CONTRACT CHANGE ORDER PRIOR TO COMMENCING WORK. SHORING SHALL BE REMOVED PRIOR TO INSTALLING PRODUCT PIPING. DO NOT ABANDON SHORING IN PLACE.

- 1.0 TANK MANUFACTURER'S INSTALLATION CHECKLIST SHALL BE INITIALED/SIGNED BY G.C AND OWNER'S ENGINEER, AS APPROPRIATE, AS EACH STEP IS COMPLETED
- 2.0 THE GENERAL CONTRACTOR SHALL FOLLOW ALL TESTING PROCEDURES OUTLINED IN THE XERXES INSTALLATION MANUAL FOR BRINE-FILLED DOUBLE WALL TANKS AND PROVIDE DOCUMENTATION TO THE OWNER. ALSO, THE GENERAL CONTRACTOR SHALL MAINTAIN A DAILY LOG OF THE STICK READINGS FORM THE BRINE RESERVOIR.
- 3.0 N/A, NOT USED

4.1 INSTALLING CONTRACTOR SHALL BE CERTIFIED BY TANK MANUFACTURER.

4.2 BEDDING AND BACKFILL MATERIAL SHALL BE WELL WASHED AND FREE OF ICE AND SNOW AND MUST MEET ASTM D-448, ASTM C-33 AND AASHTO M-43 QUALITY AND SOUNDNESS. G.C. SHALL PROVIDE SIEVE ANALYSIS ACCEPTABLE TO OWNER'S ENGINEER. THE FOLLOWING MATERIALS MAY BE USED:

4.2.1 PEA GRAVEL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER WITH NO MORE 3% PASSING A NO. 8 SIEVE.

4.2.2 CRUSHED STONE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER WITH NO MORE THAN 3% PASSING A NO. 8 SIEVE.

4.3 STANDARD INSTALLATION

4.3.1 ALL TANKS SHALL BE PLACED AT A MINIMUM OF 48 INCHES BELOW FINISHED GRADE OR AS REQUIRED TO ACCOMMODATE PRODUCT PIPING SLOPE REQUIREMENTS, AND SET ON A 12 INCH THICK (MINIMUM) BED OF APPROVED BACKFILL MATERIAL. TANK OPENINGS SHALL BE ALIGNED VERTICALLY WITHIN A PLANE PERPENDICULAR TO THE TANKS LONGITUDINAL AXIS.

4.3.2 SET TANKS LEVEL ON BEDDING MATERIAL. USE ALL LIFTING LUGS PROVIDED AND GUIDE ROPES AT EACH TANK END. (DO NOT SET TANKS DIRECTLY ON DEADMAN IF USED).

4.3.3 PLACE 12" BACKFILL MATERIAL EVENLY AROUND TANKS. USE WOODEN DOWEL PROBE TO WORK BACKFILL COMPLETELY UNDER TANK.

4.3.4 REPEAT D-4.3.3 FOR NEXT 12" PROBING TO FILL ALL VOIDS.

4.3.5 FREELY ADD ADDITIONAL BACKFILL TO TANK TOPS. (ADDITIONAL PROBING NOT REQUIRED).

4.4 ALTERNATE INSTALLATION (NOT ALLOWED).

4.5.1 G.C. SHALL BE RESPONSIBLE TO EVACUATE WATER FROM EXCAVATION, IF CONDITIONS REQUIRE SHORING, CONSULT OWNER'S ENGINEER. METHOD MUST BE APPROVED BY OSHA AND OWNER'S ENGINEER.

4.5.2 MINIMIZE SURFACE WATER ENTERING EXCAVATION BY CONSTRUCTING DIVERSION DAMS AROUND TANK FIELD EXCAVATION AND PIPING TRENCHES.

4.5.3 A CONTINGENCY PLAN SHALL BE DEVELOPED BY G.C. OUTLINING EMERGENCY PROCEDURES FOR OBTAINING THE NECESSARY EQUIPMENT AND/OR PERSONNEL TO HANDLE UNEXPECTED WATER ENTRY INTO THE TANK FIELD EXCAVATION OR PIPING TRENCHES. WHEN WATER MAY CONTAIN HYDROCARBONS CONSULT OWNER'S ENVIRONMENTAL ENGINEER.

4.5.4 INSTALL TANKS PER 4.3

4.6.1 TANK ANCHORING, WHERE REQUIRED BY EXISTING GROUNDWATER CONDITIONS, SHALL BE ACCOMPLISHED USING STRAPS AND TURNBUCKLE ASSEMBLIES BY THE TANKS MANUFACTURER AND INSTALLED IN STRICT ACCORDANCE WITH THE TANK MANUFACTURER'S REQUIREMENTS. ALL TURNBUCKLE ASSEMBLY HARDWARE TO BE COATED WITH KOPPERS 300M EPOXY APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5.1 PRIOR TO COMPLETION OF BACKFILL AND AFTER PRESSURE TESTING TANK, COAT ALL CORRODIBLE COMPONENTS EXPOSED TO BACKFILL WITH COAL TAR EPOXY AND WRAP WITH FELT OR 3M TAPE. ALL COMPONENTS SHALL BE CLEAN AND CORROSION FREE BEFORE APPLYING COATING. EXTEND COATING 30 ONTO ADJACENT FRP COMPONENT

6.1 WATER BALLASTING - GO TO BALLAST TANKS

6.1.1 ATTACH ONLY RISK RISER AND MANIFOLD HOUSING TO TANK. G.C. SHALL PROTECT AND STORE REMAINING SLP COMPONENTS. COVER TOP OF SLP MANIFOLD WITH PLYWOOD SECURED THROUGH EXISTING BOLT HOLES.

6.1.2 WATER TO BE PROVIDED BY CONTRACTOR. G.C. TO ASSUME RESPONSIBILITY FOR COMPLETE REMOVAL AND DISPOSAL OF WATER BALLAST AND SCHEDULING GASOLINE DELIVERY PRIOR TO PRODUCT PIPING PURGE, DISPENSER, START-UP, CALIBRATION, ETC.

FROM TANK.

7.1 G.C. SHALL CONTACT R.T. OWNERS ENGINEER TO HAVE PRECISION TEST ON PRIMARY TANK AFTER PAVING IS COMPLETE. WHEN THE PRODUCT HAS BEEN PLACED IN TANKS, DISPENSERS HAVE BEEN INSTALLED, AND PRIOR TO FINAL PROJECT ACCEPTANCE.

1.0 PIPE MANUFACTURER'S INSTALLATION CHECKLIST SHALL BE INITIALED AND SIGNED BY G.C. AND OWNER'S ENGINEER, APPROPRIATE, AS EACH STEP IS COMPLETED.

2.0 ALL MATERIAL WORKMANSHIP AND INSTALLATION PRACTICES SHALL BE IN ACCORDANCE WITH NFPA APPLICABLE CODES.

3.1 ALL VENT AND VAPOR RETURN SHALL BE A.O. SMITH RED THREAD 1/2" FIBERGLASS PIPING

3.2 ALL PRODUCT AND REMOTE FILL PIPING SHALL BE A.O. SMITH RED THREAD 1/2" FIBERGLASS WITH SECONDARY CONTAINMENT

3.3 TANK RISER SHALL BE SCHEDULE 40 (ASTM-56-120) GALVANIZED IRON PIPES. FITTING SHALL BE 300 PSI GALVAN MALLEABLE IRON. ALL COUPLINGS AND FITTINGS SHALL BE SHOULDER STYLE, NO STREET COUPLINGS OR FITTING S THE USE OF CLOSE, CONTINUOUSLY THREADED STEEL PIPE NIPPLES SHALL NOT BE PERMITTED.

3.4 ALL THREADED CONNECTIONS SHALL BE TREATED WITH GASOLIA E-SEAL OR JOMAR 100 "THE HEAVY WEIGHT." (10

3.5 G.C. SHALL DEMONSTRATE TO OWNER'S ENGINEER ALL INSTALLED MATERIALS ARE NEW AND CONFORM TO ABOVE S

4.1 INSTALLATION CONTRACTOR SHALL BE CERTIFIED BY PIPING MANUFACTURER.

4.2 CORRODIBLE COMPONENTS SHALL BE USED ONLY WHERE SPECIFIED AND IN THE ARRANGEMENT SHOWN IN THESE DETAILS.

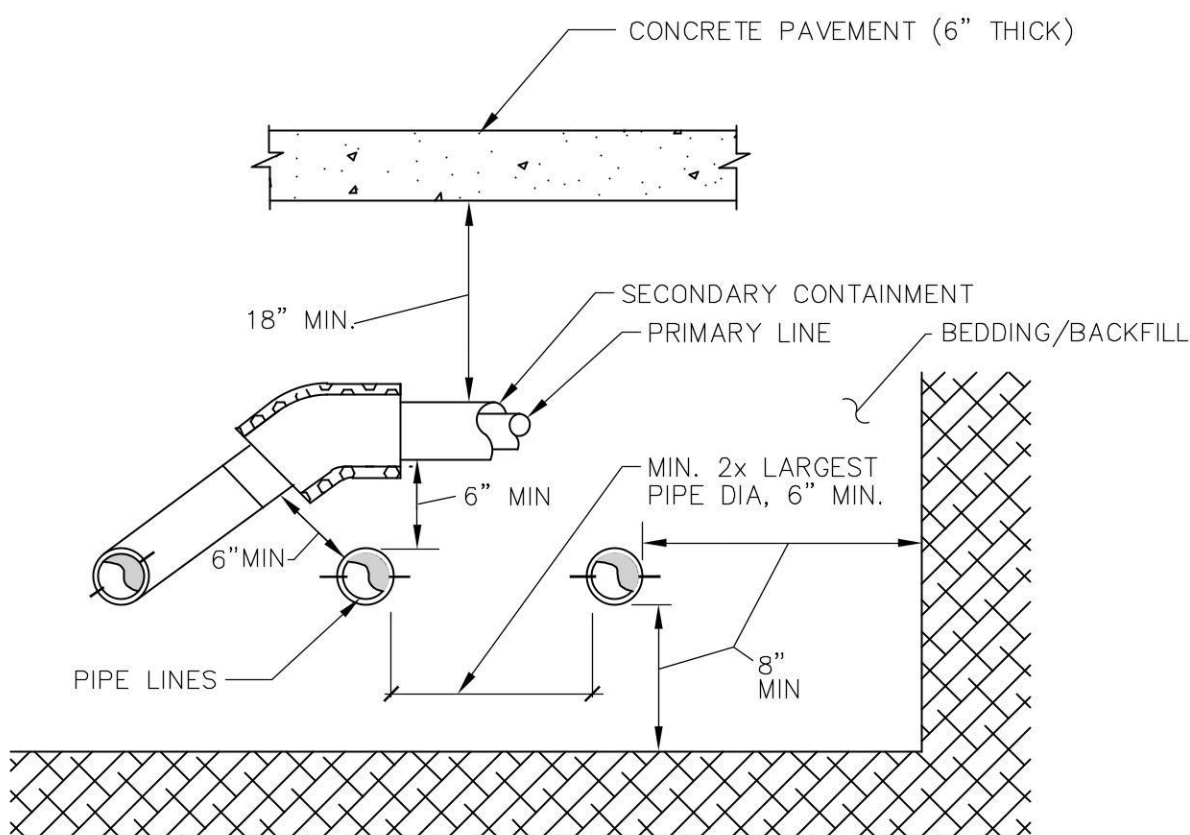
4.3 BEDDING AND BACKFILL MATERIAL SHALL BE THE SAME AS THE TANK FIELD. SAND SHALL NOT BE USED UNDER A PRODUCT LINE TRENCH SUB-GRADE SHALL BE COMPACTED TO 95% PROCTER DENSITY PRIOR TO INSTALLING BEDDING AND BACKFILL MATERIAL.

TO APPROVAL BY OWNER'S ENGINEER.

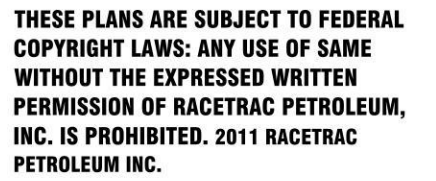
4.4 PIPING SHALL BE MINIMIZED, NOT PLACED UNDER BUILDINGS AND SHALL BE INSTALLED WITH MINIMUM SPACING AND CLEARANCES SHOWN BELOW. IF PIPING ROUTING IS NOT SPECIFIED, G.C SHALL INSTALL IN THE MOST DIRECT ROUTE TO APPROVAL BY OWNER'S ENGINEER.

4.5 PRODUCT LINE SHALL SLOPE CONTINUOUSLY UPWARD FROM STP SUMP A MINIMUM OF 1/8" PER FT. STAGE I AND VAPOR RECOVERY LINES AND VENT LINES SHALL SLOPE CONTINUOUSLY UPWARD FROM VAPOR MANIFOLD A MINIMUM OF 1/8" PER FT.

1. PRODUCT LINES AND VENT LINES TO SLOPE MIN. 1/8" PER FOOT DOWN TO UNDERGROUND TANKS.
2. PROVIDE MINIMUM 6" VERTICAL & 2x PIPE DIAMETER HORIZONTAL SEPARATION (6" MIN.) BETWEEN FUEL LINES (NFPA 30:27.6.5.647)
3. PROVIDE MINIMUM 6" BED BELOW & COVER (12" FILL, 6" CONCRETE) ABOVE ALL FUEL LINES (NFPA 30:27.6.5.1&2)



1.0 G.C. SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS TO SCALE DEPICTING PRECISE LOCATION OF ALL COMPONENTS INSTALLED (INCLUDING PRODUCT/ VAPOR LINE SIZES AND LOCATIONS, CONDUIT SIZES AND LOCATIONS ETC.) PRIOR TO OWNER'S ENGINEER PROJECT ACCEPTANCE.



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STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

RICHARD R. MORRIS
GA REG # PE013997

21056

TANK AND PIPING NOTES

T5.0

ISSUED FOR CONSTRUCTION