UNDERGROUND STORAGE TANKS INSTALLATION

PROPOSED FILLING STATION

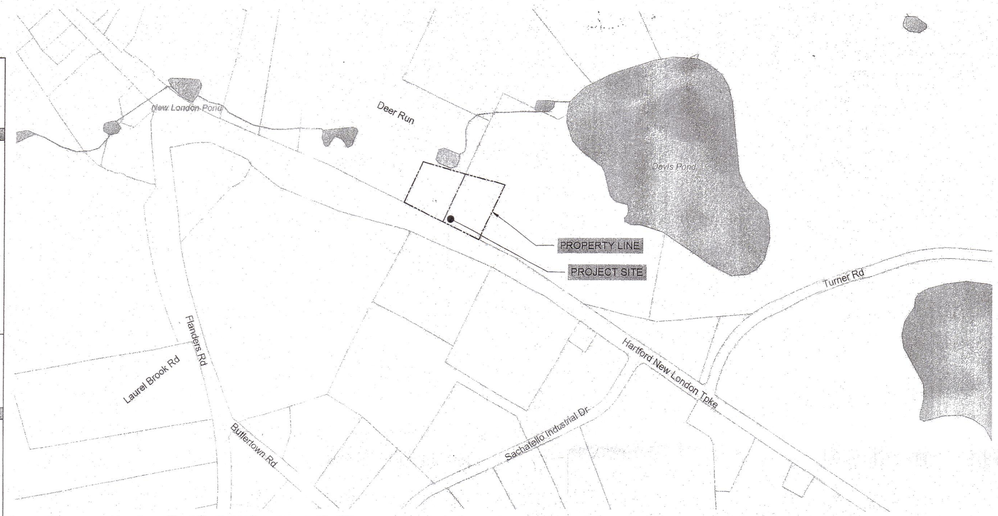
1499 & 1505 HARTFORD-NEW LONDON TURNPIKE, OAKDALE, CT 06370

OWNER

DEER RUN STABLE LLC
96 ROUTE 32
FRANKLIN, CT 06254

PREPARED FOR

SERVICE STATION EQUIPMENT, INC.
20 MURPHY ROAD
FRANKLIN, CT 06254



LOCUS MAP

APROX. SCALE: 1" = 350'

SHEET #	SHEET NAME
T-1.0	TITLE SHEET
UST-1.0	UST AND PIPING PLAN
UST-2.0	UST DETAILS

REVISIONS

NO.	DATE	DESCRIPTION	BY	CM

PROFESSIONAL SEAL

PROJECT:
UNDERGROUND STORAGE TANK REPLACEMENT
1499 & 1505 HARTFORD NEW LONDON TURNPIKE
OAKDALE, CT 06370

PREPARED FOR:
SERVICE STATION EQUIPMENT, INC.
20 MURPHY RD
FRANKLIN, CT 06254

ENVIRONMENTAL SERVICES
ENGINEERING SERVICES

67 HALL ROAD
STURBRIDGE, MA 01560
PHONE: 774-241-0901
FAX: 774-241-0906

CMG EST. 2002

ISSUE DATE: 12/17/2019
DRAWN BY: SH CHECKED BY: MS
SCALE:
PROJECT NO.: 2019-236
SHEET NAME:
TITLE SHEET
SHEET NO.:
T-1.0

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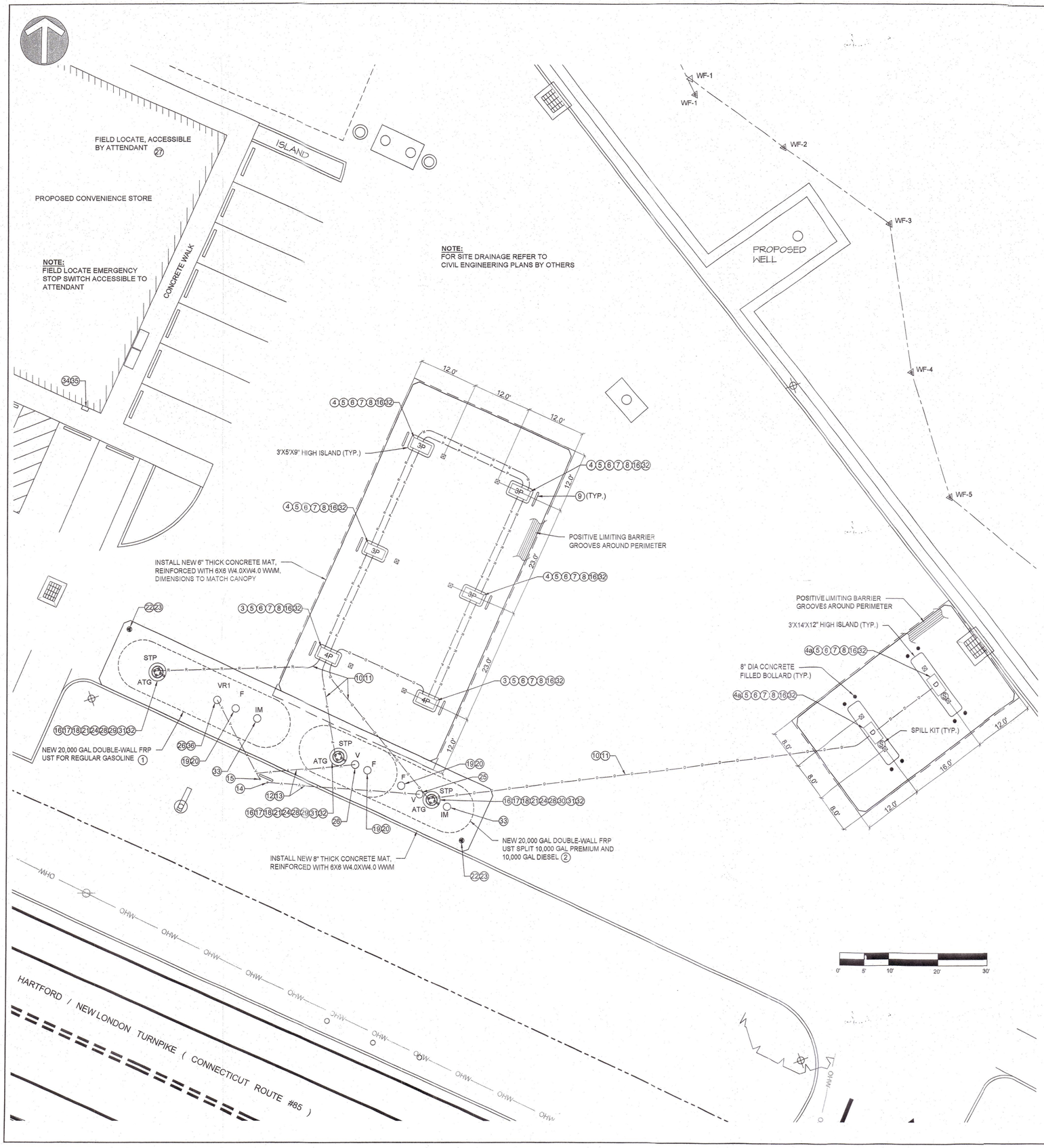

LEGEND:

EXISTING		PROPOSED
	PROPERTY LINE	
	WETLANDS LINE	
WF-2	WETLANDS FLAG	
OHW	OVERHEAD WIRE	
	TANK FILL	F
	INTERSTITIAL MONITOR	IM
	AUTOMATIC TANK GAUGING	ATG
	VENT	V
	SUBMERSIBLE TURBINE PUMP	STP
	STAGE 1 VAPOR	VR1
	REGULAR GASOLINE PIPING	R
	PREMIUM GASOLINE PIPING	P
	DIESEL PIPING	D
	GASOLINE DISPENSER	3P
	GASOLINE WITH DIESEL DISPENSER	4P
	DIESEL DISPENSER	D
	MONITORING WELL	MW
	CATCH BASIN	
	UTILITY POLE	

INSTALLATION NOTES

1. INSTALLATION MUST ADHERE TO:
   - CT DEP "REGULATIONS OF CONNECTICUT STATE AGENCIES, UNDERGROUND STORAGE TANK REGULATIONS, SECTIONS 22a-449(d)-1, AND SECTIONS 22a-449(d) 101-113"
   - NFPA 30 "FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE"
   - NFPA 30A "CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES"
   - NFPA 10 "STANDARD FOR PORTABLE FIRE EXTINGUISHERS"
   - CONNECTICUT STATE BUILDING CODE
   - CT STATE FIRE SAFETY CODE, 2016 EDITION
   - FEDERAL UST REGULATIONS, SEE 2018 CONNECTICUT STATE FIRE PREVENTION CODE
   - NFPA 70 2014 EDITION
   - PETROLEUM EQUIPMENT INSTITUTE GUIDELINES "RECOMMENDED PRACTICES FOR INSTALLATION OF UNDERGROUND LIQUID STORAGE SYSTEMS"
   - APPLICABLE LOCAL CODES
   - MANUFACTURER'S RECOMMENDATIONS
2. CONTRACTOR MUST COMPLETE ALL MANUFACTURER'S CHECK SHEETS
3. CONTRACTOR MUST USE PERSONNEL CERTIFIED BY ALL EQUIPMENT SUPPLIERS AS QUALIFIED TO PERFORM THE REQUIRED SCOPE OF WORK
4. POST CONSTRUCTION FACILITY TESTING TO INCLUDE:
   - PRECISION TESTING OF ALL PRODUCT LINES, VENT LINES, AND USTs BY CERTIFIED TESTING COMPANY.
   - HYDROSTATIC TESTING OF ALL SUMPS

EQUIPMENT LIST: (EQUAL SUBSTITUTIONS ACCEPTABLE)

NO.	QTY	ITEM	MAKE/MODEL	COMMENTS
1	1	20,000 GALLON DW FIBERGLASS TANK	CSI OR XERXES	10-FT DIA., WET INTERSTICE
2	1	20,000 GALLON DW FIBERGLASS COMPARTMENT TANK	CSI OR XERXES	10-FT DIA., SPLIT 10K DIESEL, 10K PREMIUM, WET INTERSTICE
3	2	3 + 1 BLENDING DISPENSER	WAYNE OVATION	
4	4	3 + 0 BLENDING DISPENSER	WAYNE OVATION	
4a	2	DIESEL DISPENSER	WAYNE OVATION	
5	8	DISPENSER SUMP	APT	CONDUITLESS
6	8	STABILIZER BAR	APT	
7	16	PRODUCT CRASH VALVE	OPW	
8	8	DISPENSER ISLAND		
9	7	"U" BOLLARDS		
10		PRODUCT PIPING	APT/XP-175	DOUBLE WALL
11		ACCESS PIPE	APT	4", SLEEVE PURPOSES ONLY
12		VENT PIPING, DIESEL	FIBERGLASS	SINGLE WALL
13		VENT PIPING, GASOLINE	FIBERGLASS	3" SINGLE WALL
14	1	VENT CAP DIESEL		2", ATMOSPHERIC
15	1	VENT CAP GASOLINE		3", PRESSURE VENT
16	28	ENTRY FITTINGS	APT	
17	3	STP	RED JACKET	
18	4	FULL PORT BALL VALVE		2"
19	3	SPILL CONTAINMENT FILL MANHOLE	OPW	5 GALLON - NO DRAIN, DOUBLE WALL
20	3	DROP TUBE	EMCO	4" WITH OVERFILL PREVENTION VALVE
21	3	STP SUMP MANHOLES	EMCO	42" DIA
22	2	MONITORING WELL MANHOLE		BOLT DOWN 8" , MONITORING WELL SYMBOL
23	2	MONITORING WELL PIPE		4"X13'
24	3	STP SUMP	CSI	
25	1	EXTRACTOR HOUSING	OPW	FOR DIESEL
26	2	EXTRACTOR HOUSING	OPW	FOR ALL GAS TANKS
27	1	MONITORING CONSOLE	VEEDER-ROOT/TLS-350	
28	3	TANK GAUGING PROBE	VEEDER-ROOT	WITH CSLD
29	2	GAS FLOAT KITS	VEEDER-ROOT	
30	1	DIESEL FLOAT KITS	VEEDER-ROOT	
31	3	MECHANICAL LINE LEAK DETECTOR (MLLD)	VEEDER-ROOT	
32	11	PIPING SUMP SENSOR	VEEDER-ROOT	
33	2	INTERSTITIAL MONITOR	VEEDER-ROOT	
34	1	HIGH LEVEL ALARM HORN/STROBE	VEEDER-ROOT	
35	1	ALARM ACKNOWLEDGEMENT SWITCH	VEEDER-ROOT	
36	1	SPILL CONTAINMENT VAPOR MANHOLE	OPW	SINGLE WALL

PLAN REFERENCE:

BASE PLAN PER PLAN ENTITLED "SITE DEVELOPMENT PLAN" PREPARED FOR DEER RUN STABLE, LLC BY ANGUS MCDONALD GARY SHARPE & ASSOCIATES, INC., 233 BOSTON POST RD, OLD SAYBROOK, CT 06475, DATED 07/10/19, SCALE: 1"=20'

NO.	DATE	DESCRIPTION	BY	CKD

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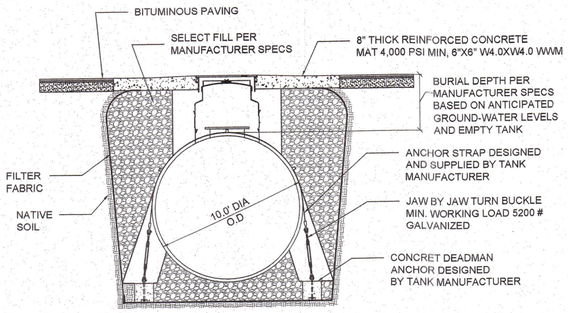
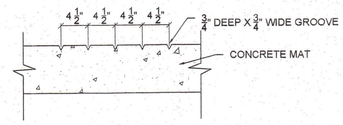
PROJECT NO.: 2019-236
SHEET NAME: UST AND PIPING PLAN
SHEET NO.: UST-1.0



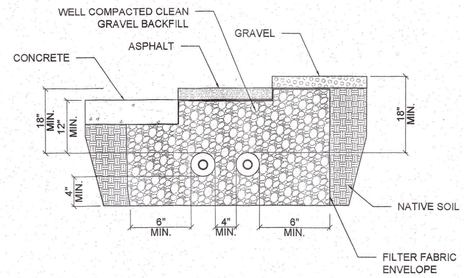
1 UST-2.0 **ANCHORING CROSS SECTION**

SCALE: NTS



4 UST-2.0 **POSITIVE LIMITING BARRIER**

SCALE: NTS

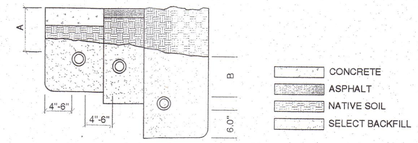


5 UST-2.0 **UNDERGROUND PRODUCT PIPING TRENCH DETAILS**

SCALE: NTS

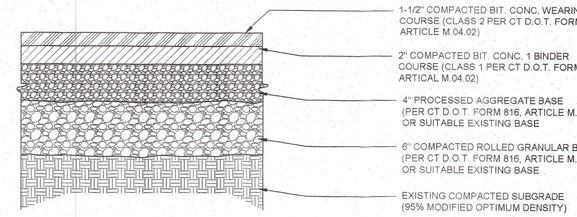
PIPE SIZE	SURFACE CONDITION	MIN. BURIAL DEPTH A	
IN		IN	
2	UNPAVED	18	12
	PAVED, MIN. 4" ASPHALT	12	8
	PAVED MIN. 4" CONCRETE	9	5
	PAVED MIN. 4" CONCRETE	9	3
3	UNPAVED	20	14
	PAVED, MIN. 4" ASPHALT	13	9
	PAVED MIN. 4" CONCRETE	11	7
	PAVED MIN. 4" CONCRETE	10	4

REFERENCE
RED THREAD 11A, DUALOY 3000/L, DUALOY 3000/LCX
PIPING SYSTEM INSTALLATION INSTRUCTIONS



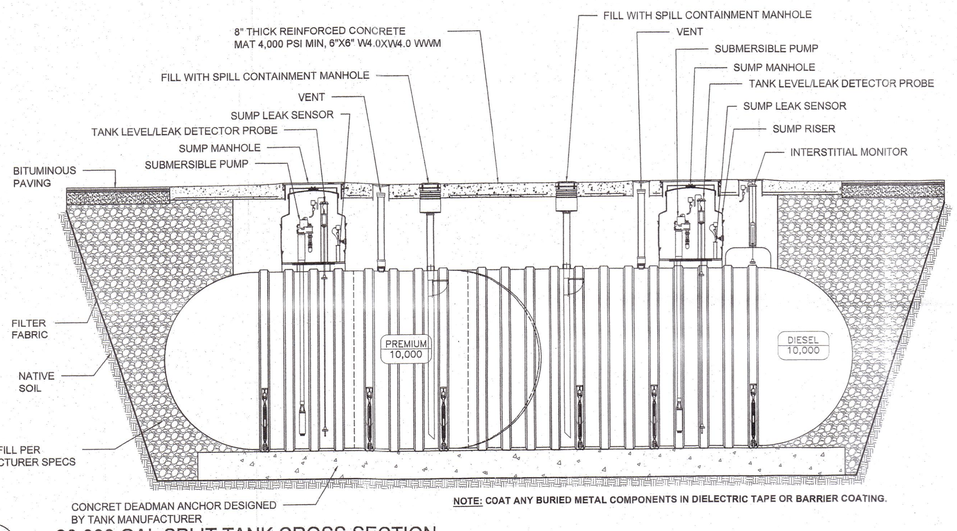
6 UST-2.0 **FRP VENT PIPING TRENCH DETAILS**

SCALE: NTS



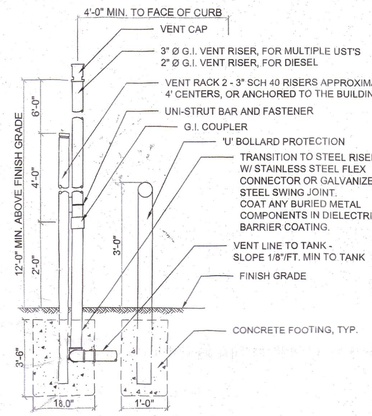
8 UST-2.0 **ASPHALT PAVEMENT DETAILS**

SCALE: NTS



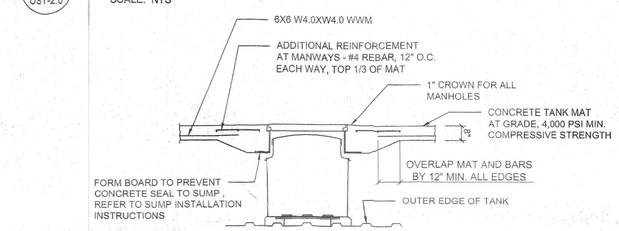
2 UST-2.0 **20,000 GAL SPLIT TANK CROSS SECTION**

SCALE 1/4" = 1'-0"



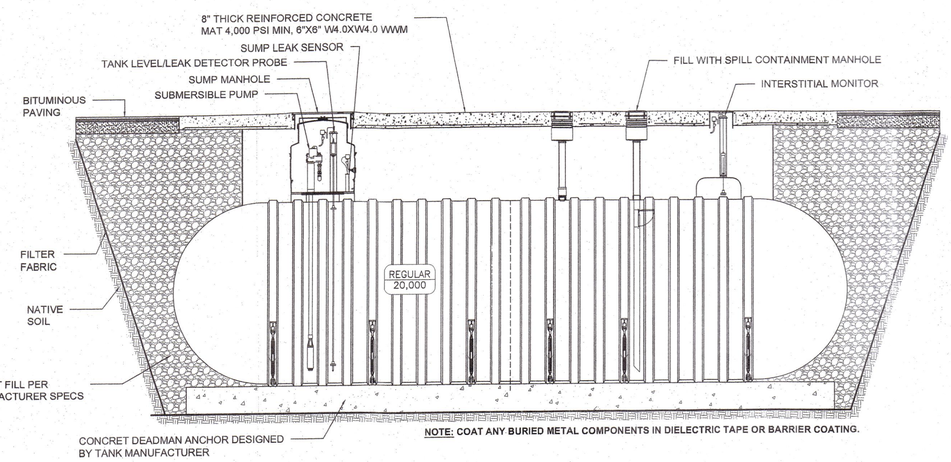
7 UST-2.0 **VENT RISER**

SCALE: NTS



9 UST-2.0 **TANK MAT REINFORCEMENT AT SUMP**

SCALE: NTS



3 UST-2.0 **20,000 GAL TANK CROSS SECTION**

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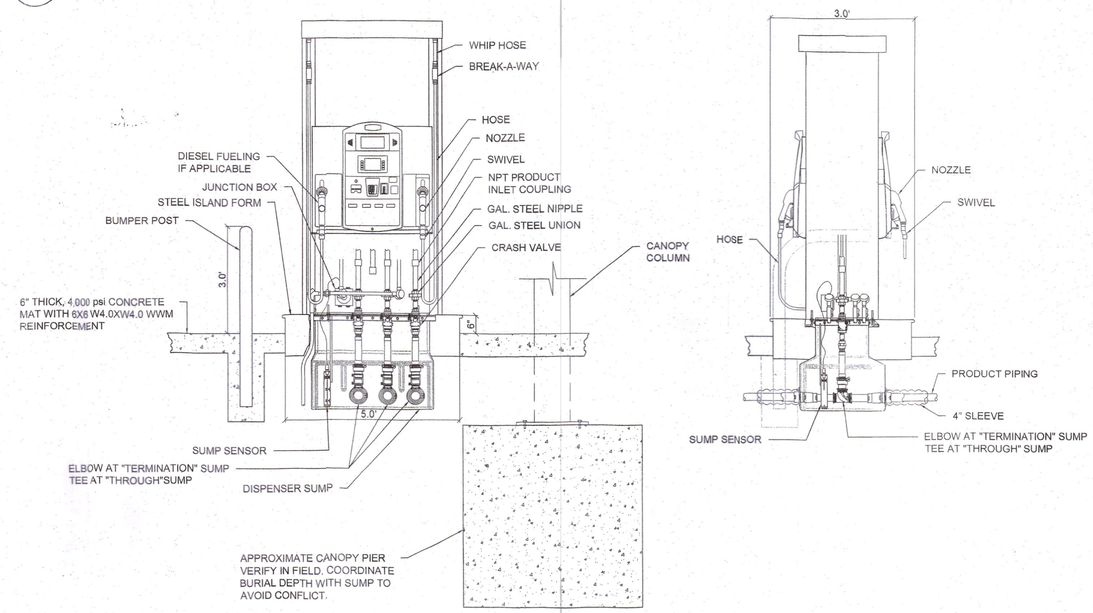

10 UST-2.0 **DISPENSER AND ISLAND SECTION**

SCALE: NTS

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