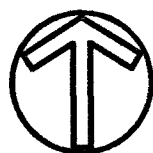
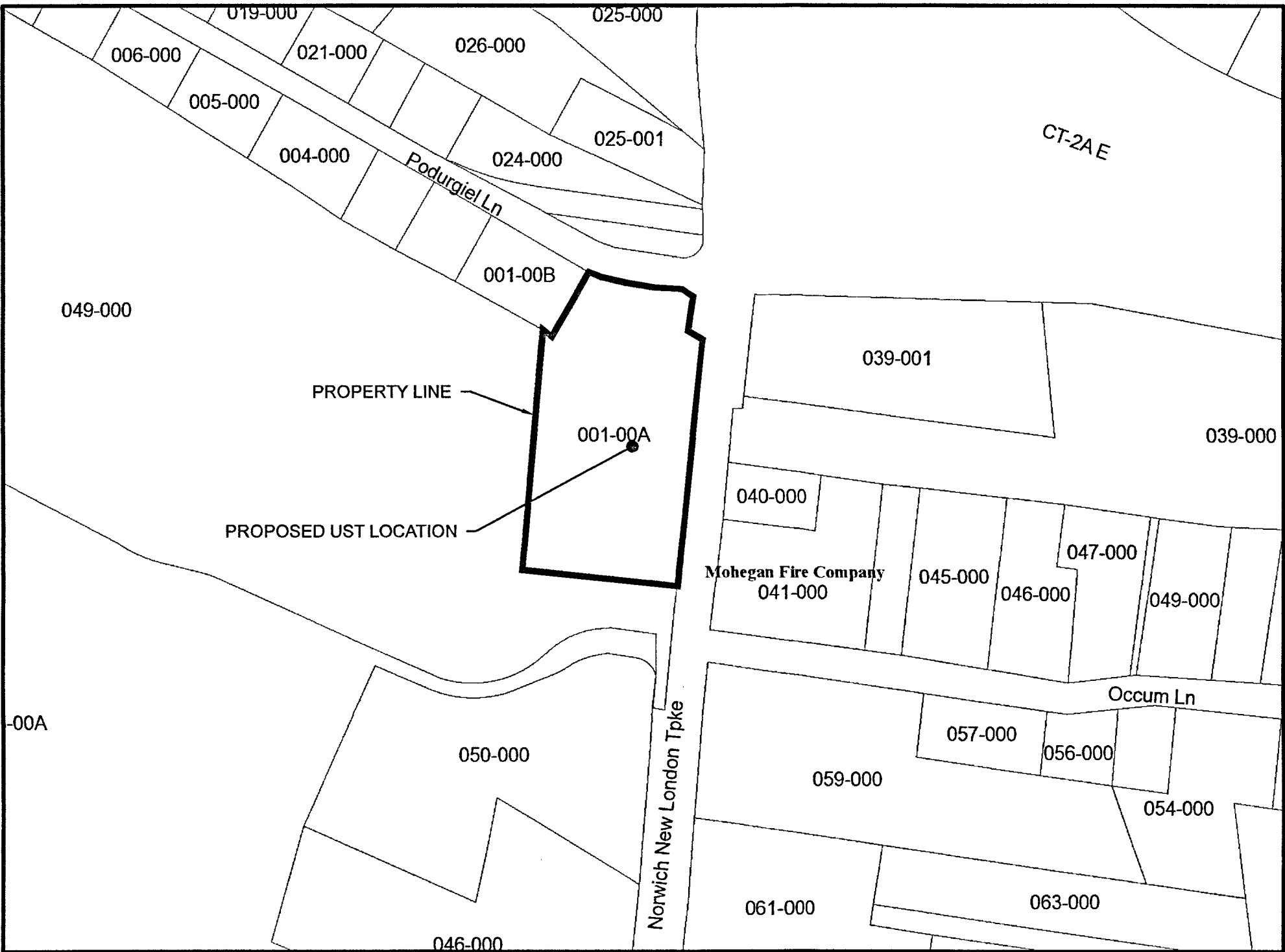


UNDERGROUND STORAGE TANK PLAN

PROPOSED FILLING STATION

#2040 NORWICH-NEW LONDON TURNPIKE (ROUTE 32)
UNCASVILLE, CT 06382
PARCEL ID: 103/1/1A

OWNER
HASSAN HUSSAIN, LLC 4 BOSTON POST ROAD WATERFORD, CT 06385
PREPARED FOR
AHMED CHOUDHRY BESTWAY CO. P.O. BOX 126 NORWICH, CT 06360



LOCUS MAP

APPROXIMATE SCALE: 1" = 200'

SHEET #	SHEET NAME
T-1.0	TITLE SHEET
UST-1.0	UST & PIPING PLAN
UST 2.0	UST DETAILS
UST 2.1	UST DETAILS



PROJECT: UNDERGROUND STORAGE TANK PLAN
#2040 NORWICH-NEW LONDON TPKE (RTE 32)
UNCASVILLE, CT 06382

PREPARED FOR: AHMED CHOUDHRY BESTWAY CO.
P.O. BOX 126
NORWICH, CT 06360

ENGINEERING SERVICES
ENVIRONMENTAL SERVICES

67 Hall Road
Sturbridge, MA 01560
Phone: 774-241-0901
fax: 774-241-0906



ISSUE DATE: 1/17/2023
DRAWN BY: MM CHECKED BY: JAB
SCALE: AS NOTED
PROJECT NO.: 2022-305

TITLE SHEET

T-1.0

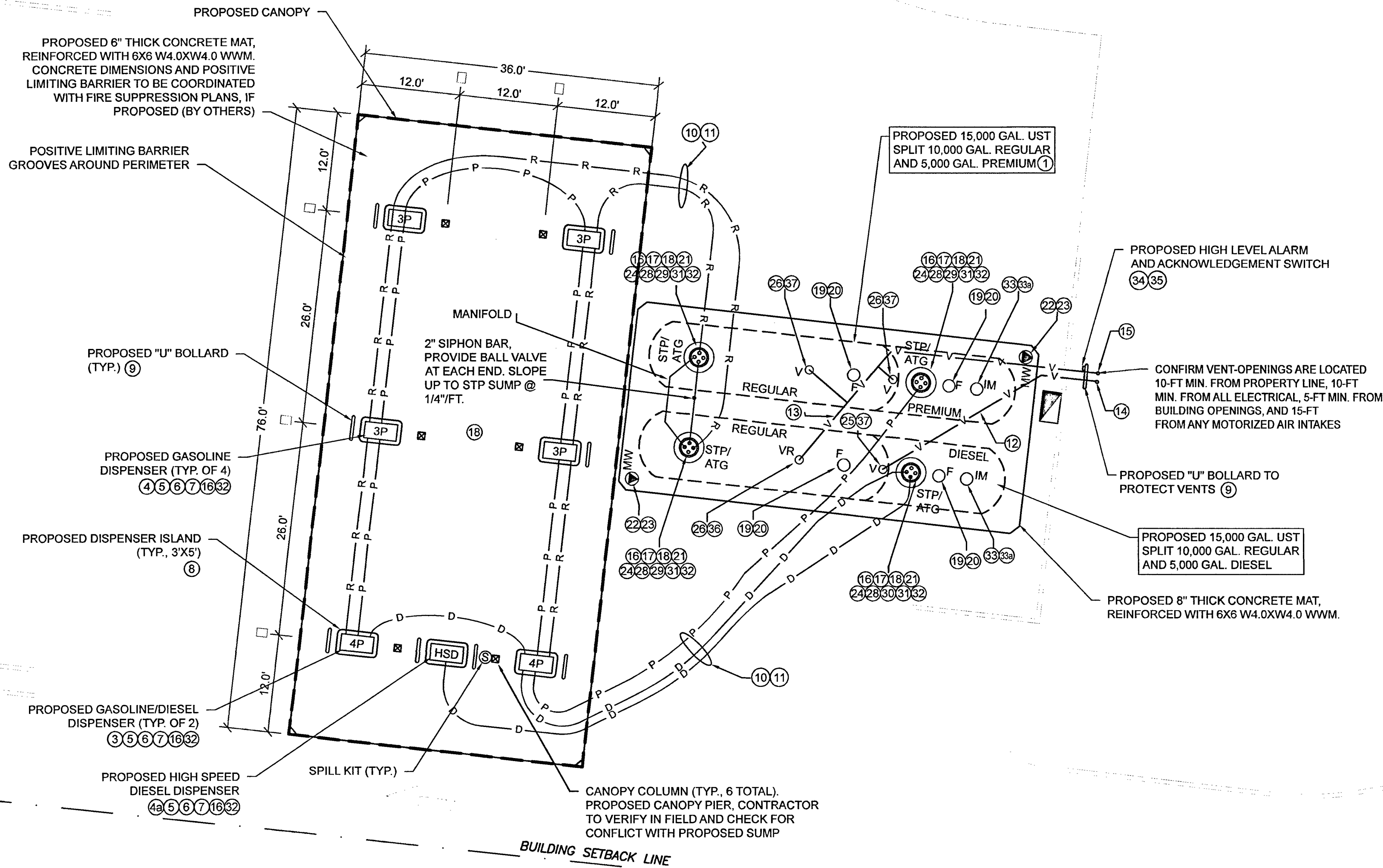
RECEIVED
APR 21 2023
BY: _____

N/F
HASSAN HUSSAIN, LLC
103/1/1A
VOL. 663, PG. 612

NOTE:
FIELD LOCATE EMERGENCY
STOP SWITCH ACCESSIBLE TO
ATTENDANT. COORDINATE FINAL
LOCATION W/ AUTHORITY
HAVING JURISDICTION.

PROPOSED CONVENIENCE
STORE W/DRIVE THRU

FIELD LOCATE, ACCESSIBLE
BY ATTENDANT (27)



LEGEND	
EXISTING	PROPOSED
---	PROPERTY LINE
---	BUILDING SETBACK LINE
---	EDGE OF WETLANDS
---	WETLANDS FLAG
---	CATCH BASIN
---	BITUMINOUS CURB
---	CANOPY COLUMN
---	VENT LINE
---	REGULAR GASOLINE PIPING
---	PREMIUM GASOLINE PIPING
---	DIESEL PIPING
---	SUBMERSIBLE TURBINE PUMP
---	AUTOMATIC TANK GAUGING
---	TANK FILL
---	STAGE 1 VAPOR RECOVER PICKUP
---	INTERSTITIAL MONITOR
---	VENT
---	MONITORING WELL
---	GASOLINE DISPENSER
---	GASOLINE W/ DIESEL DISPENSER
---	HIGH SPEED DIESEL DISPENSER

INSTALLATION NOTES:

TANK LAYOUT PER CLIENT REQUIREMENTS/REQUEST. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO CONFIRM TANK ALIGNMENT, (TANK FILL/ATG/IM/VENT PORTS) TO OPTIMIZE ACCESS TO TANKS.

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 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:

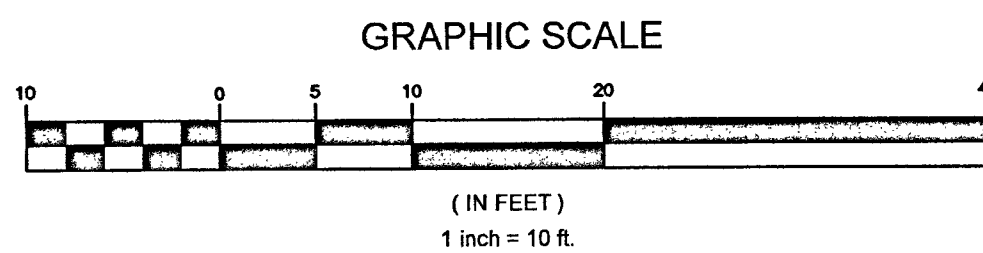
- PRECISION TESTING OF NEW PRODUCT LINES, VENT LINES, AND UST'S BY CERTIFIED TESTING COMPANY
- HYDROSTATIC TESTING OF ALL SUMPS

NO.	QTY	ITEM	MAKE/MODEL	COMMENTS
1	1	15,000 GALLON DW FRP COMPARTMENT TANK	CSVDWT-6 DWB-2 (6'-10M/5M)	8'-FT DIA, SPLIT 10K REGULAR, 5K PREMIUM, WET INTERSTICE
2	1	15,000 GALLON DW FRP COMPARTMENT TANK	CSVDWT-6 DWB-2 (6'-10M/5M)	8'-FT DIA, SPLIT 10K REGULAR, 5K DIESEL, WET INTERSTICE
3	2	3 + 1 BLENDING DISPENSER	WAYNE OR GILBARCO	
4	4	3 + 0 BLENDING DISPENSER	WAYNE OR GILBARCO	
4a	1	DIESEL DISPENSER	WAYNE OR GILBARCO	
5	7	DISPENSER SUMP	APT	CONDUITLESS
6	7	STABILIZER BAR	APT	
7	15	PRODUCT CRASH VALVE	OPW	
8	7	DISPENSER ISLAND		STAINLESS STEEL, REFER TO PLAN FOR SIZE
9	9	"U" BOLLARDS		
10		PRODUCT PIPING	APT/XP-175	DOUBLE WALL
11		ACCESS PIPE	APT	4", SLEEVE PURPOSES ONLY
12		VENT PIPING, DIESEL	RFP	SINGLE WALL
13		VENT PIPING, GASOLINE	RFP	3" SINGLE WALL
14	1	VENT CAP DIESEL		2", ATMOSPHERIC
15	1	VENT CAP GASOLINE		3", PRESSURE VENT
16		ENTRY FITTINGS	APT	AT ALL SUMP ENTRIES
17	4	STP	RED JACKET OR FE PETRO	
18	7	FULL PORT BALL VALVE		2"
19	4	SPILL CONTAINMENT FILL MANHOLE	EMCO	5 GALLON - NO DRAIN, DOUBLE WALL
20	4	DROPTUBE	EMCO	4" WITH OVERFILL PREVENTION VALVE
21	4	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	4	STP SUMP	CSI	
25	1	EXTRACTOR HOUSING	OPW	FOR DIESEL
26	3	EXTRACTOR HOUSING	OPW	FOR ALL GAS TANKS
27	1	MONITORING CONSOLE	VEEDER-ROOT/LS-450	
28	4	TANK GAUGING PROBE	VEEDER-ROOT	WITH CSLD
29	3	GAS FLOAT KITS	VEEDER-ROOT	
30	1	DIESEL FLOAT KITS	VEEDER-ROOT	
31	4	MECHANICAL LINE LEAK DETECTOR (MLD)	FE PETRO	
32	11	PIPING SUMP SENSOR	VEEDER-ROOT	
33	2	INTERSTITIAL MONITOR	VEEDER-ROOT	
33a	2	INTERSTITIAL MANHOLE	EMCO	18" BOLT DOWN, WATER TIGHT
34	1	HIGH LEVEL ALARM HORN/STROBE	VEEDER-ROOT	
35	1	ALARM ACKNOWLEDGEMENT SWITCH	VEEDER-ROOT	
36	1	SPILL CONTAINMENT VAPOR MANHOLE	EMCO	SINGLE WALL
37	3	VENT MANHOLE		18"

* CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE INSTALLATION. PARTS AND MATERIALS NOTED HEREON DO NOT CONSTITUTE A COMPLETE LIST OF THAT WHICH MAY BE REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR TO SUPPLY ALL MATERIALS AND EQUIPMENT UNLESS INSTRUCTED OTHERWISE BY OWNER. CONTRACTOR TO PROVIDE PRODUCT INFORMATION ON ALL EQUIPMENT.

PLAN REFERENCES:

1. BASE PLAN PER PLAN ENTITLED "PROPOSED CONVENIENCE STORE/GAS STATION, 2040 ROUTE 32 UNCASVILLE, CONNECTICUT" PREPARED FOR AMER CHOUDREY, PREPARED BY: FEDUS ENGINEERING, LLC 70 ESSEX STREET, MYSTIC, CT 06355, LATEST REVISION DATE: 12/5/2022.
2. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. ALL UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



NOTE: THESE PLANS ARE FOR UNDERGROUND STORAGE TANK AND FUEL PIPING ONLY AND DO NOT CONSTITUTE A BOUNDARY OR LOCATION SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL PROPERTY LINES ESTABLISHED AND SITE FEATURE LOCATIONS CONFIRMED BEFORE CONSTRUCTION.

NOTE: THESE PLANS ARE FOR UNDERGROUND STORAGE TANK AND FUEL PIPING ONLY. REFER TO THE LATEST VERSION OF THE CIVIL ENGINEERING DESIGN PLANS FOR ALL OTHER SITE IMPROVEMENTS.

CONTRACTOR TO COORDINATE FINAL CANOPY & COLUMNS CONFIGURATION WITH THE OWNER AND ADJUST ALIGNMENT OF DISPENSERS ACCORDINGLY. NOTIFY DESIGN ENGINEER OF ANY CONFLICTS

DIG SAFE NOTE (1-888-344-7233):
CONTRACTOR REQUIRED TO NOTIFY "DIG SAFE" 72 HOURS PRIOR TO ANY ON-SITE EXCAVATION OR CONSTRUCTION AT 1-888-344-7233. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER AND SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.

REVISIONS	
NO.	DESCRIPTION
1	ROTATE TANK 90, RELOC FILL PORTS



PROJECT: UNDERGROUND STORAGE TANK PLAN
#2040 NORWICH-NEW LONDON TPKE (RTE 32)
UNCASVILLE, CT 06382

PREPARED FOR:
AHMED CHOUDHRY BESTWAY CO.
P.O. BOX 126
NORWICH, CT 06360

ENGINEERING SERVICES
ENVIRONMENTAL SERVICES

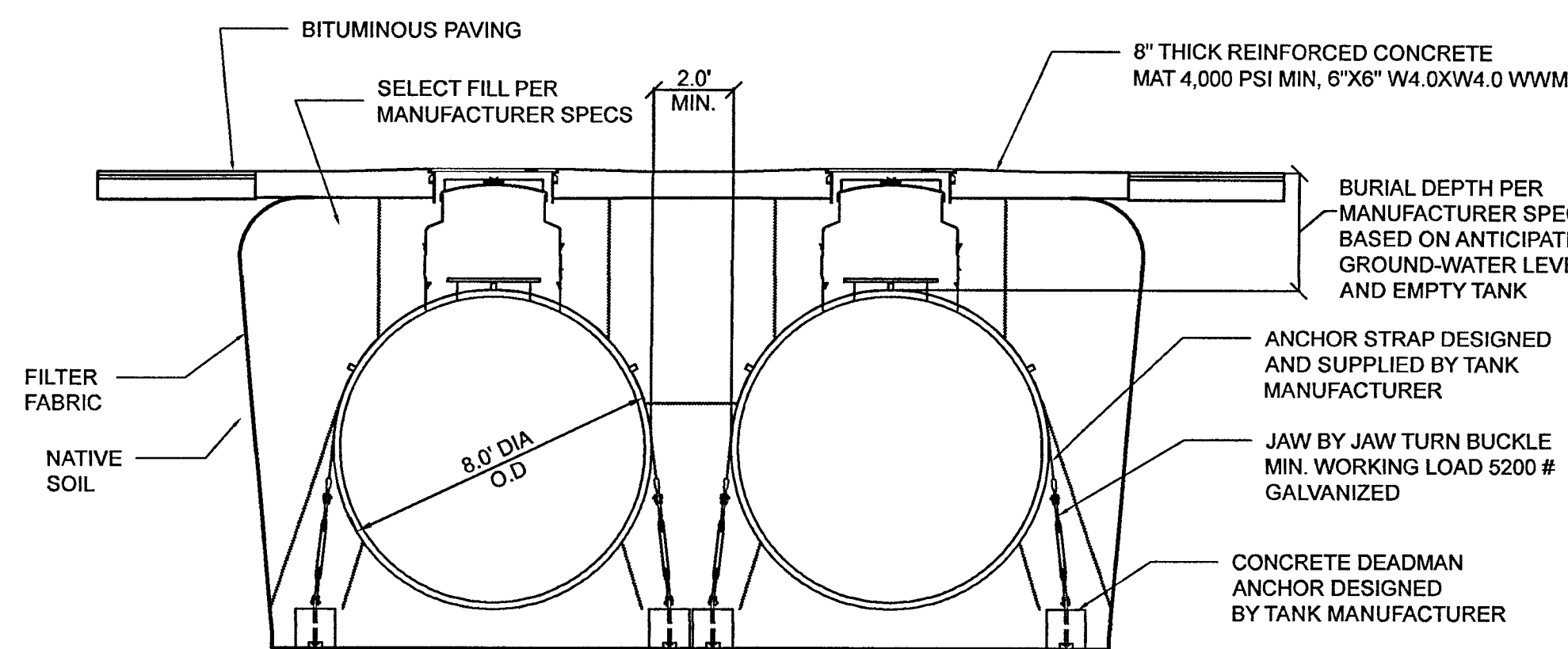
67 Hall Road
Sturbridge, MA 01560
Phone: 774-241-0901
fax: 774-241-0906

CMG
EST. 2002

ISSUE DATE: 1/17/2023
DRAWN BY: MM CHECKED BY: JAB
SCALE: 1" = 10'
PROJECT NO.: 2022-305

UST & PIPING
PLAN

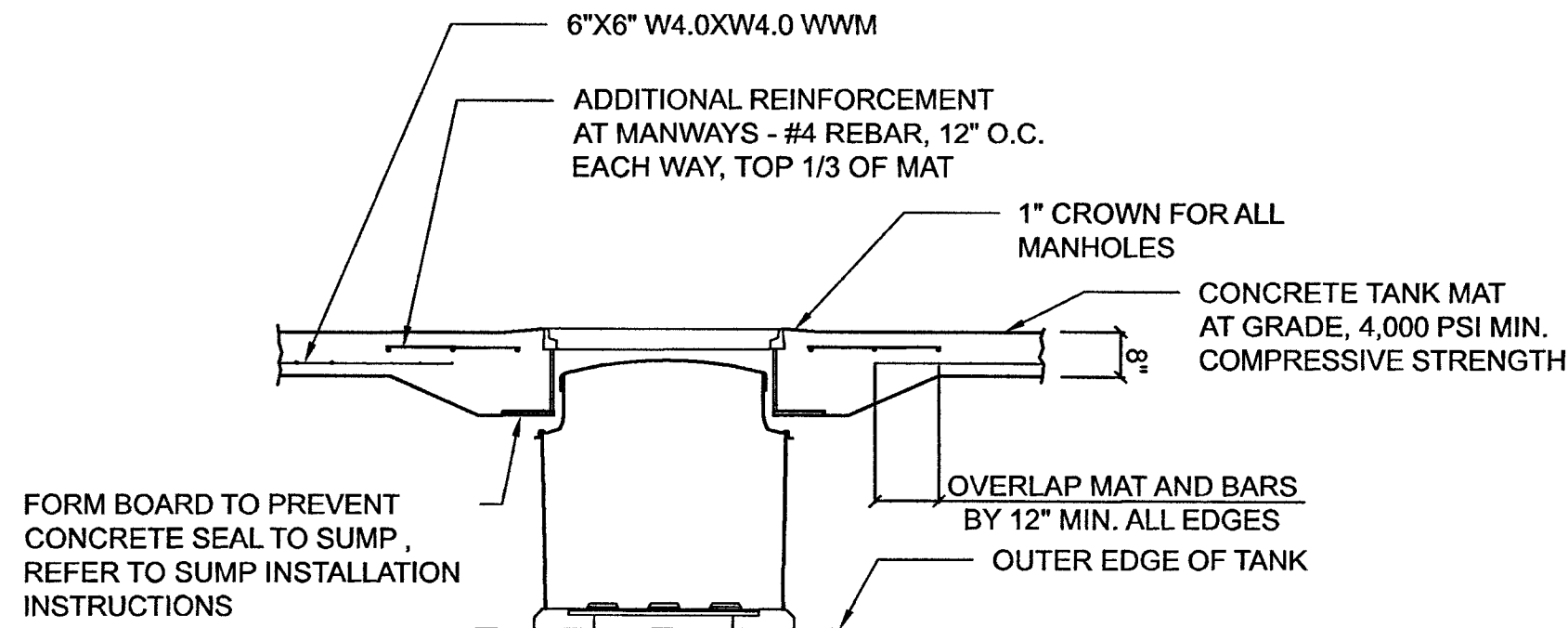
UST-1.0



NOTE: COAT ALL BURIED METAL COMPONENTS (INCLUDING GALVANIZED METALS) IN DIELECTRIC TAPE OR BARRIER COATING.

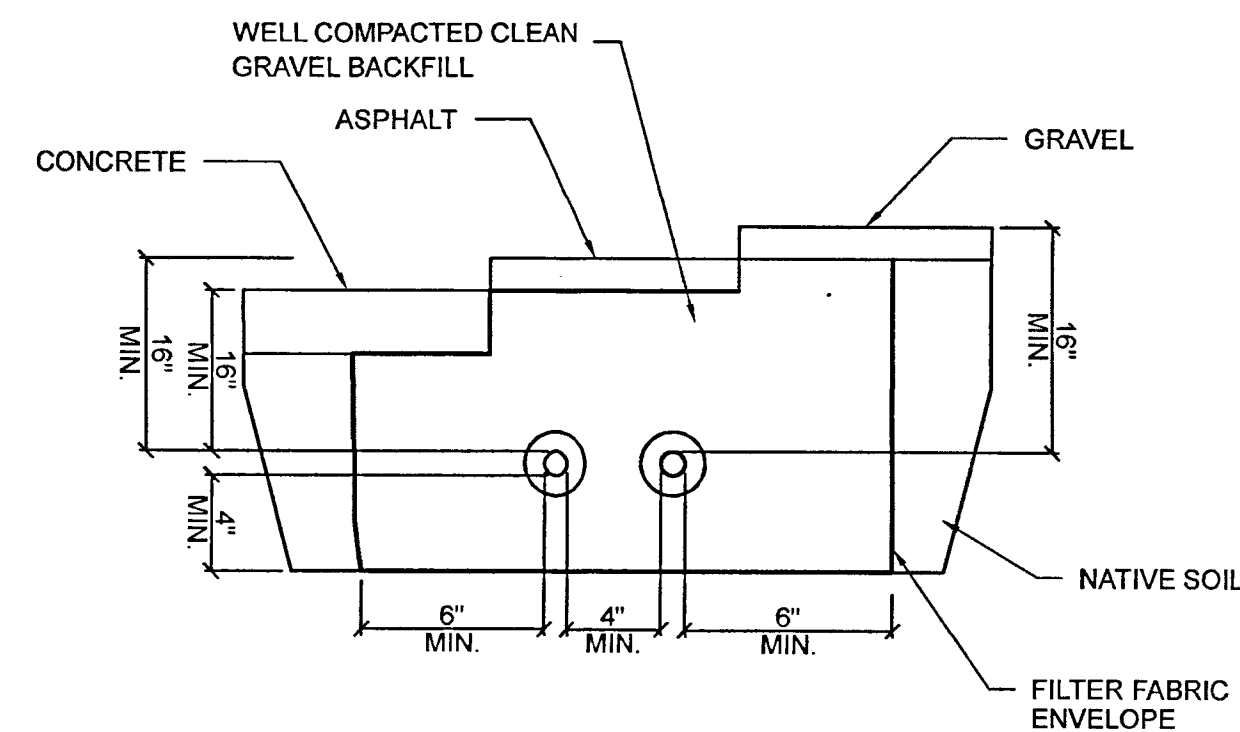
1 ANCHORING CROSS SECTION

UST-2.0 SCALE: NTS



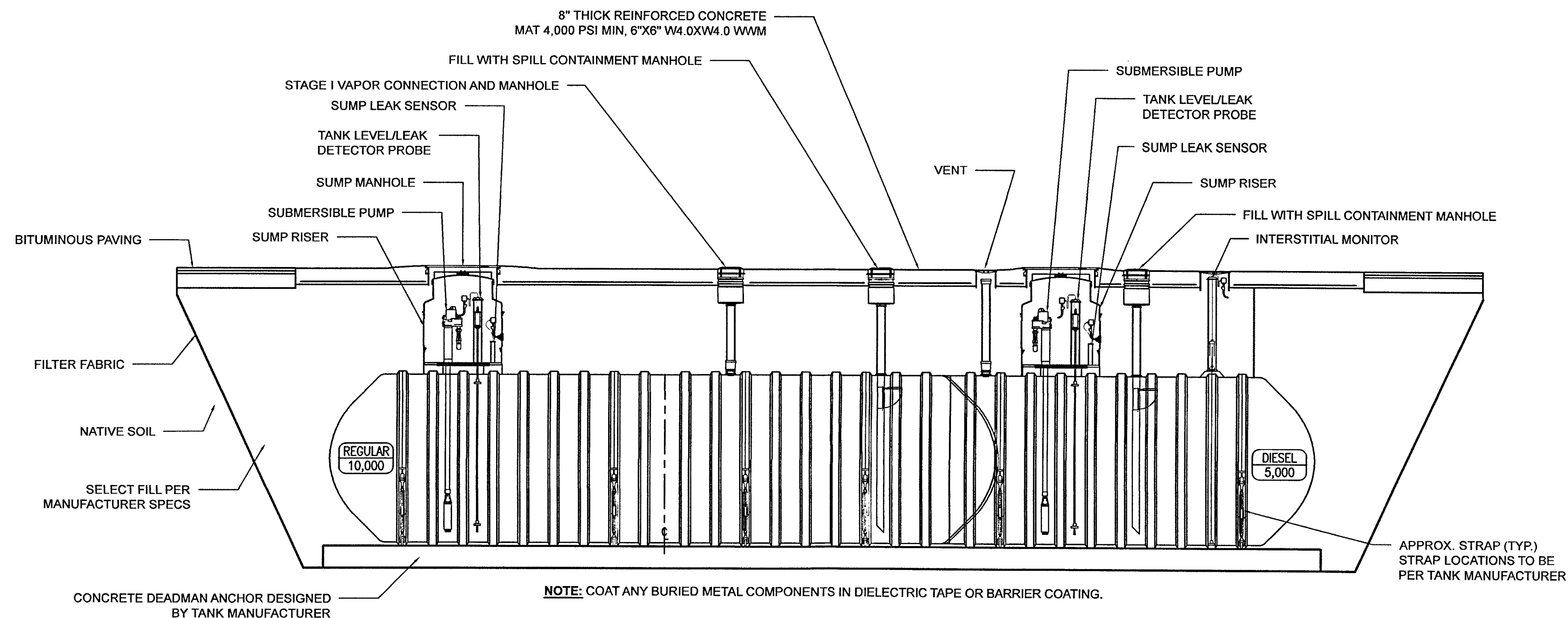
2 TANK MAT REINFORCEMENT AT SUMP

UST-2.0 SCALE: NTS



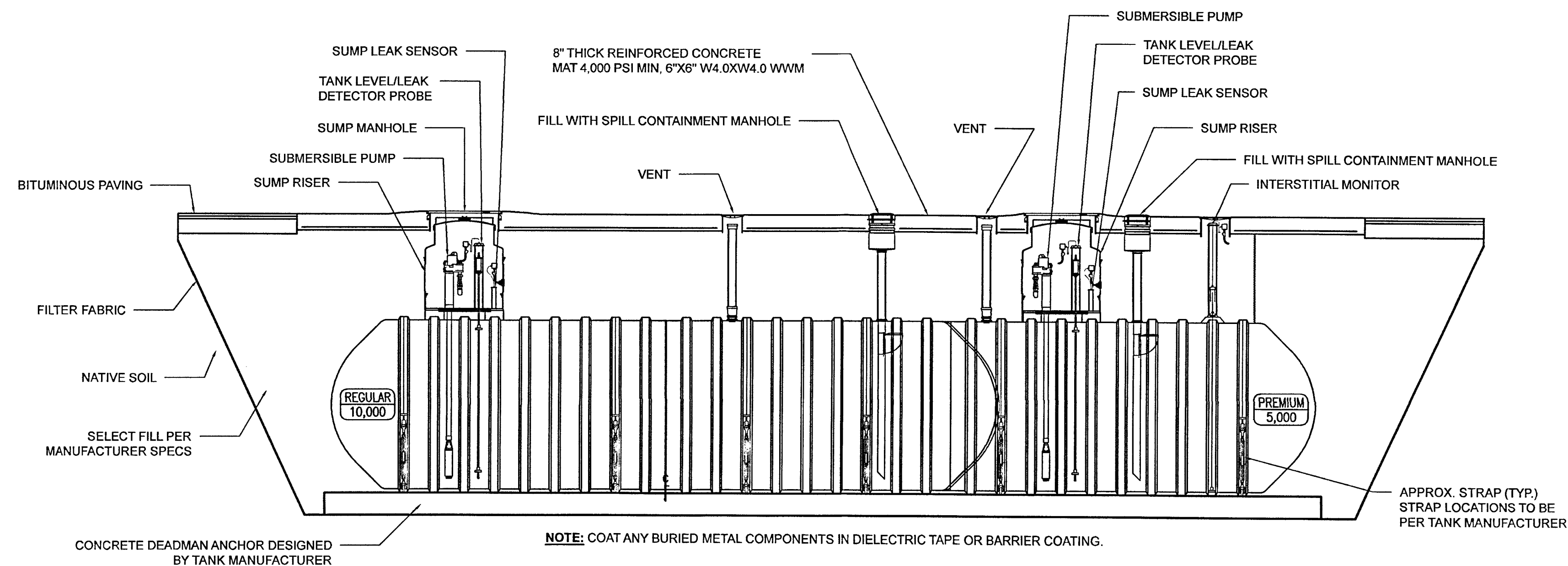
3 UNDERGROUND PRODUCT PIPING TRENCH DETAILS

UST-2.0 SCALE: NTS



4 15,000 GAL DOUBLE-WALL SPLIT TANK CROSS SECTION (10,000 GAL. REGULAR & 5,000 GAL. DIESEL)

UST-2.0 SCALE 1/4" = 1'-0"



5 15,000 GAL DOUBLE-WALL SPLIT TANK CROSS SECTION (10,000 GAL. REGULAR & 5,000 GAL. PREMIUM)

UST-2.0 SCALE 1/4" = 1'-0"

REVISIONS		NO.	DATE	DESCRIPTION	BY	CHKD
1		2/9/23		ROTATE TANK 90 DEGREE	JAB	JAB



PROJECT: UNDERGROUND STORAGE TANK PLAN
#2040 NORWICH-NEW LONDON TPKE (RTE 32)
UNCASVILLE, CT 06382

PREPARED FOR: AHMED CHOUDHRY BESTWAY CO.
P.O. BOX 126
NORWICH, CT 06360

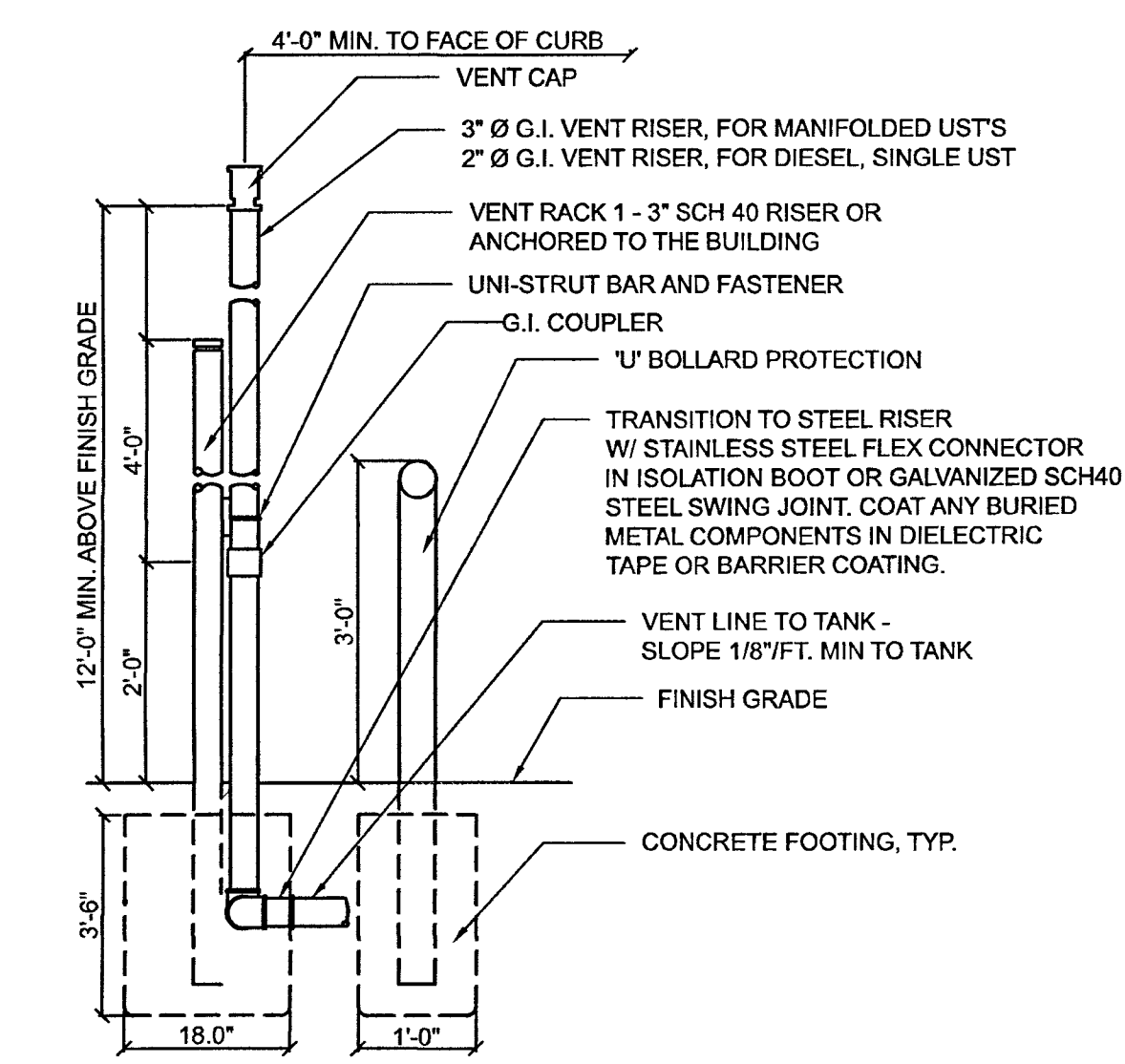
ENGINEERING SERVICES
ENVIRONMENTAL SERVICES
67 Hall Road
Sturbridge, MA 01560
Phone: 774-241-0901
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UST DETAILS

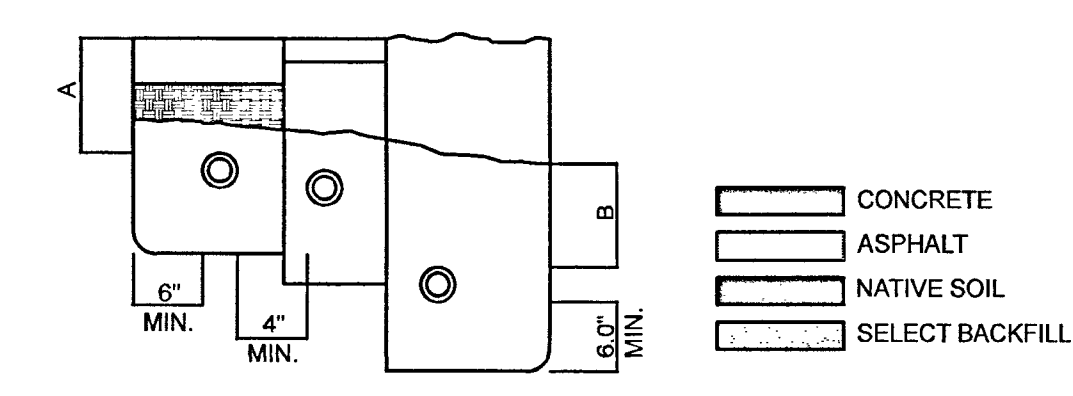
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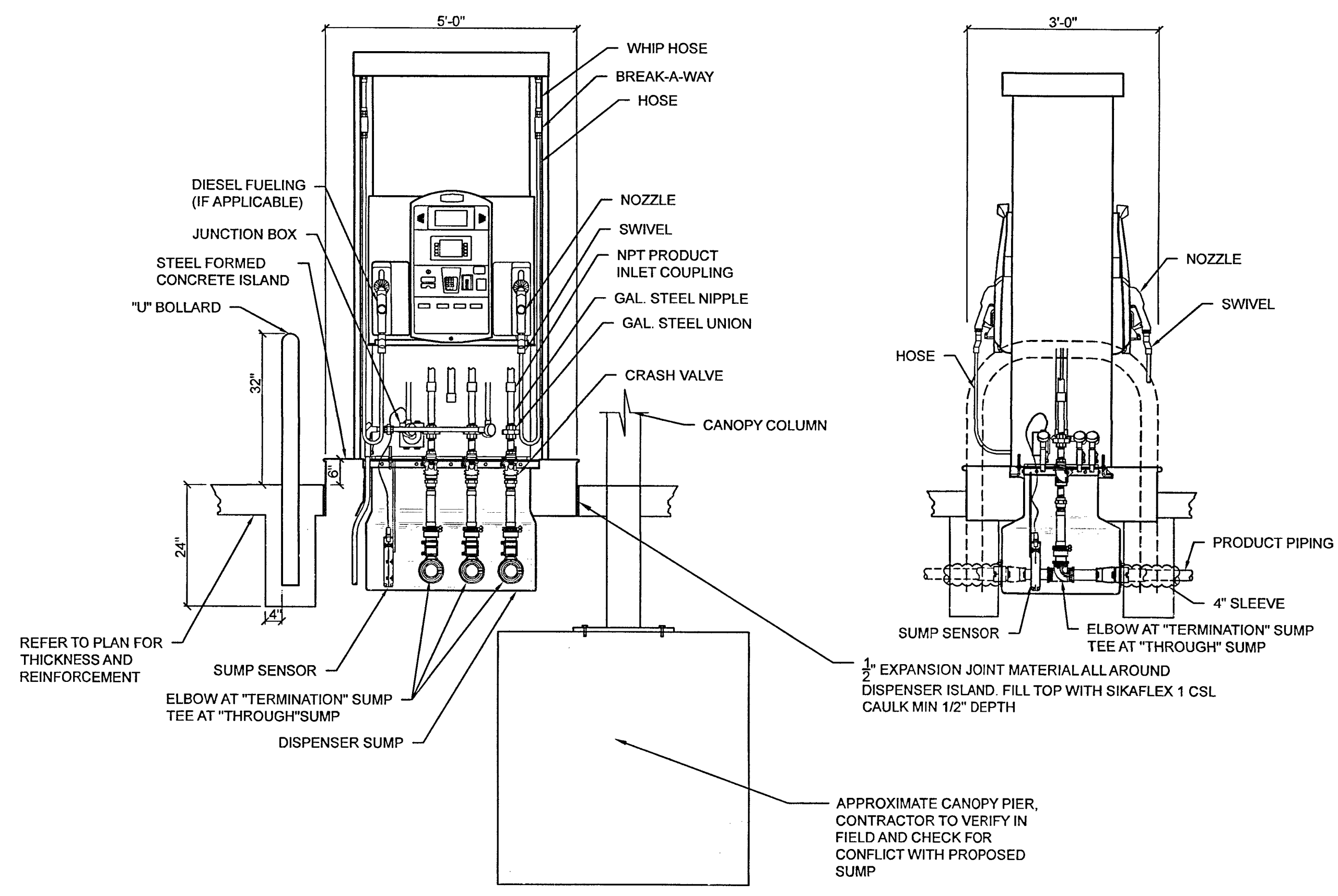
1 VENT RISER
UST-2.1 SCALE: NTS

PIPE SIZE	SURFACE CONDITION	MIN. BURIAL DEPTH	MIN. SELECT BACKFILL
		A	B
IN		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



2 FRP VENT PIPING TRENCH DETAILS
UST-2.1 SCALE: NTS



3 DISPENSER AND ISLAND SECTION
UST-2.1 SCALE 1/2" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHKD
1	2/2023	ROTATE TANK 90, RELOCO FILL PORTS	JAB	JAB

PROJECT: UNDERGROUND STORAGE TANK PLAN
#2040 NORWICH-NEW LONDON TPKE (RTE 32)
UNCASVILLE, CT 06382

PREPARED FOR: AHMED CHOUDHRY BESTWAY CO.
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UST DETAILS

UST-2.1