





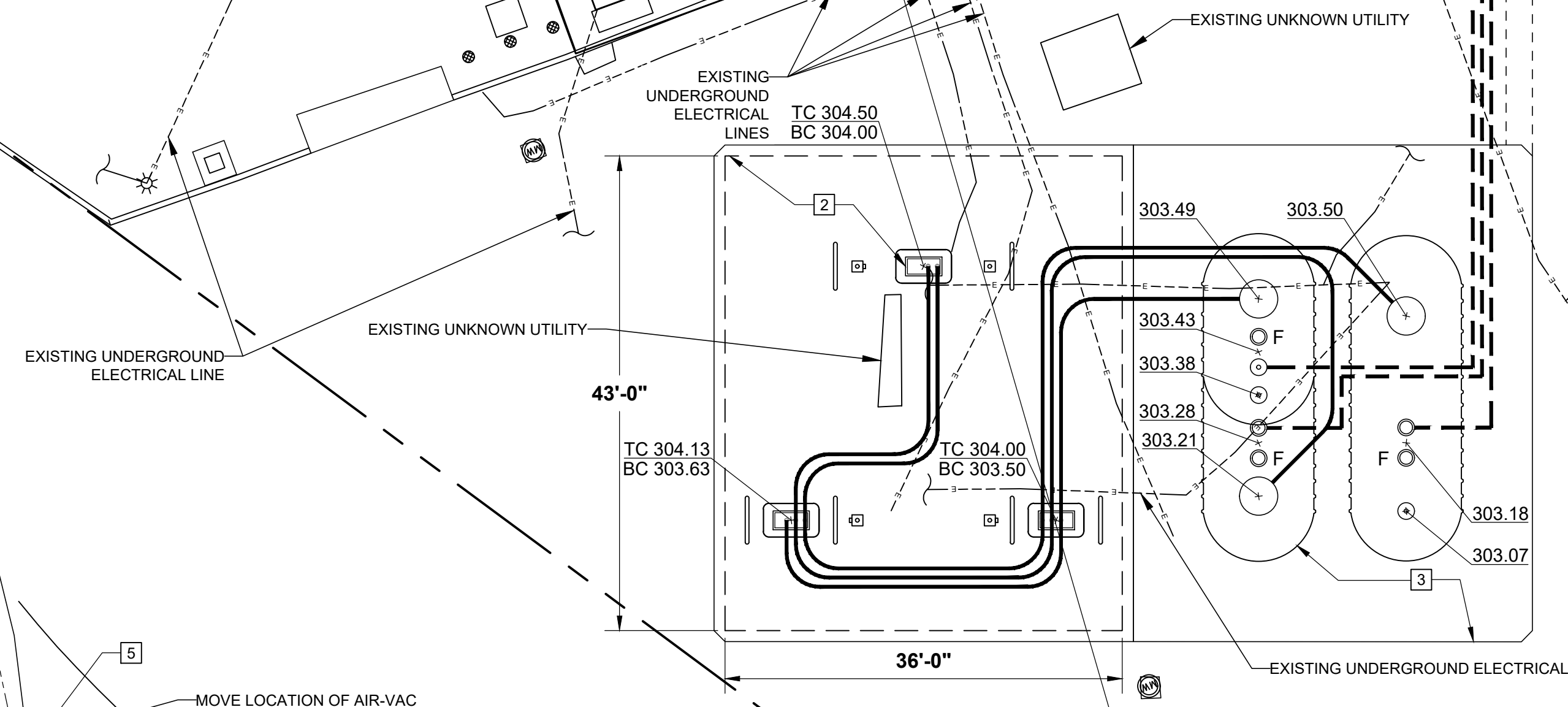
Know what's below. Call before you dig.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

OLD CROMPOUND ROAD

EXISTING CONVENIENCE STORE

FUELING CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING ELECTRICAL ROOM, AND RELOCATING CONDUIT TRENCH AS NEEDED. FUELING CONTRACTOR TO PICK UP CONDUITS AND ROUTE TO FINAL TERMINATION AND FOR PULLING WIRE AND MAKING FINAL TERMINATIONS.



MOVE LOCATION OF AIR-VAC MACHINE AS REQUIRED TO BE ON PROPERTY

SCOPE OF WORK

- 1 INSTALL NEW XERXES 15,000 GALLON 10' DIA DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANK (UST) FOR REGULAR FUEL.
2 INSTALL NEW XERXES 15,000 GALLON 10' DIA DOUBLE WALL FIBERGLASS UNDERGROUND SPLIT STORAGE TANKS (USTS) FOR 8,000 GALLONS DIESEL AND 7,000 GALLONS PREMIUM FUELS.
3 INSTALL (3) NEW FE PETRO 1.5 HP FIXED SPEED SUBMERSIBLE PUMP WITH INTAKE FILTER FOR RUL, PUL AND DSL FUELS.
4 INSTALL (1) NEW GILBARCO 700S 3+0 DISPENSER AND (2) NEW GILBARCO 700S 3+1 DISPENSERS.
5 INSTALL NEW OPW LOOP SYSTEM FROM NEW UST'S TO NEW DISPENSERS.
6 INSTALL (3) NEW VAPOR/VENT RISERS WITH BRAVO VENT BOX AND BRAVO VAPOR VENT RACK FOR SUPPORT.
7 INSTALL NEW 2" FIBERGLASS PIPING FROM VAPOR/VENT AT UST'S TO NEW REMOTE VENT.
8 INSTALL NEW CONCRETE AT DISTURBED AREAS AT TANK SLAB FOR NEW PIPING PER SEI STANDARDS.
9 INSTALL NEW CONCRETE AT DISTURBED AREAS AT CANOPY SLAB FOR NEW PIPING PER SEI STANDARDS.
10 INSTALL NEW "U" BOLLARDS AT DISPENSERS AND REMOTE VENT TO SEI SPECIFICATIONS (TYP 7).
11 INSTALL (3) NEW INTERCOMS AT ADA COMPLIANT HEIGHT AT CANOPY COLUMNS.
12 INSTALL (2) NEW FIRE EXTINGUISHERS AT ADA COMPLIANT HEIGHT AT CANOPY COLUMNS.
13 INSTALL (3) NEW TRASH CAN/WASH BUCKET COMBO UNITS AT CANOPY COLUMNS.
14 EXISTING MAIN ID SIGN TO REMAIN WITH NEW LED RUL/DSL PRICE SIGN UPGRADE BY OTHERS.
15 PAINT LED SIGNAGE FRAME, POLES, NEW BOLLARDS, CANOPY COLUMNS PER GULF BRANDING SPECIFICATIONS.
16 KEEP EXISTING VEEDER ROOT TLS350. UPDATE SOFTWARE AND HARDWARE AS REQUIRED.
17 ROUTE NEW CONDUIT TO NEW ELECTRICAL THROUGH EXTERIOR OF BUILDING. VERIFY LOCATION WITH SEI CONSTRUCTION MANAGER.
18 DEMOLITION-REMOVE EXISTING TANKS, TANK SLAB, EXISTING UST SYSTEM AND PIPING COMPLETELY. REMOVE ADDITIONAL PAVEMENT/SIDEWALKS AS REQUIRED TO FACILITATE OTHER REMOVALS AND INSTALLATIONS.
19 INSTALL (1) NEW E-STOP ON BUILDING EXTERIOR TO ADA HEIGHT COMPLIANCY.
20 INSTALL NEW 36'-0" X 43'-0" GULF-BRANDED CANOPY FOR (3) NEW DISPENSERS.
21 INSTALL (1) NEW INTERIOR E-STOP BEHIND THE SALES COUNTER.
22 INSTALL (3) NEW SS DISPENSER ISLANDS.
23 INSTALL (3) PUMP TOPPERS AT DISPENSERS.

GENERAL NOTES

- FUEL CONTRACTOR
1 FUEL GC TO WORK WITH SEI PM ON SCHEDULING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE SEI PROJECT MANAGER.
2 FUEL GC RESPONSIBLE FOR ALL CONCRETE OVER TANKS AND PRODUCT PIPING (I.E. TANK SLAB AND DRIVE MATS). CONCRETE CHAIRS ARE BY SEI.
3 FUEL GC RESPONSIBLE FOR CANOPY FOOTINGS.
4 FUEL GC TO INSTALL CANOPY DRAINS (WHERE APPLICABLE) TO POINT OF CONNECTION WITHIN (10) FT OF DRIVE MATS.
5 FUEL GC TO INSTALL ALL FUEL RELATED ELECTRONICS (I.E. DATA BOXES, EDH UNIT, TURBINE RELAYS, ISOLATION RELAYS, ETC).
6 FUEL GC RESPONSIBLE FOR ALL ELECTRICAL CONDUITS, SEAL-OFFS, ELECTRICAL J-BOXES PER STATE, LOCAL, MANUFACTURERS AND SEI CODES AND SPECIFICATIONS.
7 FUEL GC TO PULL WIRE FOR CANOPY LIGHTING, INTERCOM, DISPENSERS, TURBINES AND MONITORING SYSTEM DEVICES.
8 FUEL GC TO MAKE ALL FINAL CONNECTIONS TO FUELING EQUIPMENT AND ELECTRONICS.
9 FUEL GC TO PULL TRADE PERMITS FOR FUELING WORK (AS REQUIRED).
10 FUEL GC TO "CALL FOR" AND "BE PRESENT FOR" ALL LOCAL REGULATOR INSPECTIONS AND RESPONSIBLE FOR SCHEDULING ON-SITE INSPECTIONS WITH APPROPRIATE SEI REPRESENTATIVE RELATED TO FUELING.
11 FUEL GC TO COORDINATE WITH TANKNOLOGY AND THE SEI CONSTRUCTION MANAGER FOR TESTING OF FUELING SYSTEM.
12 FUEL GC TO HAVE PERSONNEL ON SITE FOR TESTING.
13 FUEL GC RESPONSIBLE FOR CLOSE OUT PACKAGE PER 7-11 MATRIX.

KEY NOTES

- 1 EXISTING CONVENIENCE STORE
2 NEW CANOPY AND DISPENSERS
3 NEW UNDERGROUND FUEL STORAGE TANKS AND SLAB
4 NEW FUEL STORAGE TANK VENTS
5 EXISTING AIR-VAC MACHINE. MOVE LOCATION OF AIR-VAC MACHINE TO BE ON PROPERTY AS REQUIRED.
6 NEW E-STOP ON BUILDING EXTERIOR
7 EXISTING MAIN ID SIGN TO REMAIN WITH NEW LED RUL/DSL PRICE SIGN UPGRADE
8 EXISTING VEEDER ROOT SITE MONITOR CONSOLE. FIELD VERIFY LOCATION
9 NEW INTERIOR E-STOP BEHIND SALES COUNTER. FIELD VERIFY LOCATION

NOTE: TANKS TO BE BURIED AT A MINIMUM OF 4.17' AT THE LOWEST FINISH GRADE ELEVATION AND A MAXIMUM OF 5.67' AT THE HIGHEST FINISH GRADE ELEVATION ON THE TANK PAD. VENT PIPING MUST HAVE A MINIMUM SLOPE OF 1/8" PER FOOT FROM VENT SUMP TO THE TANKS. GC TO COORDINATE ANY BURIAL DEPTH DEVIATIONS WITH SEI PROJECT MANAGER.

NOTE: THIS DRAWING IS TO BE USED AS A SCHEMATIC DRAWING. IT IS THE RESPONSIBILITY OF THE GC AND FUELING SUB-CONTRACTORS INSTALLING PRODUCT PIPING AND FUEL SYSTEM TO VERIFY EXISTING FIELD CONDITIONS. IF FIELD CONDITIONS VARY FROM DRAWING AS SHOWN OR INHIBIT INSTALLATION AS SHOWN CEASE WORK AND CONTACT SEI PROJECT MANAGER OR REPRESENTATIVE.

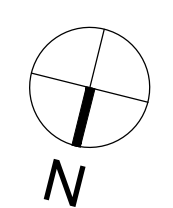
GC AND SUB-CONTRACTORS TO FOLLOW REMOVAL, AND INSTALLATION REQUIREMENTS OF FUELING SYSTEM COMPONENTS PER MANUFACTURER INSTRUCTIONS, LOCAL, FEDERAL, AND FIRE MARSHALL'S MANDATES, LAWS, AND REGULATIONS.

NOTE: SLOPE PRODUCT PIPING 1/8" PER FOOT FROM LAST DISPENSER TO THE TANKS.

TANK BURIAL CHART - STORE (38912) table with columns for COMPONENT, PREMIUM, REGULAR, and VENT. Rows include FINISH GRADE ELEV., PIPE BURY, ELEVATION OF PIPE, PIPE LENGTH, PIPING RUN FALL, TOTAL CROSSOVERS, CROSSOVER/SWING JOINT DEPTH, ELEVATION AT END OF PIPE, ADD FOR EXTRACTOR TEE, TOP TANK ELEVATION, HIGHEST FINISH GRADE ELEVATION AT TANK SLAB, MAX BURY DEPTH, and LOWEST FINISH GRADE ELEVATION AT TANKS.

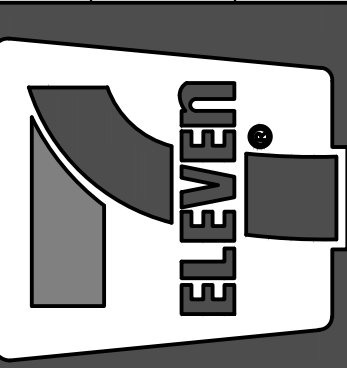
TANK BURIAL DEPTH IS GOVERNED BY THE MINIMUM BURIAL DEPTH OF 4.17 FT. THE TOP OF TANKS SHALL BE SET AT - 298.90 FT

U.S. ROUTE 202



1 ARCHITECTURAL SITE PLAN 3/32" = 1'-0"

Revision table with columns for Rev #, Date, Description, and Proto. Includes project name: 7-ELEVEN, INC. 3200 HACKBERRY ROAD, IRVING TEXAS 75063.



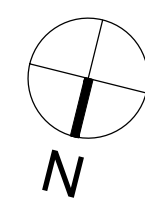
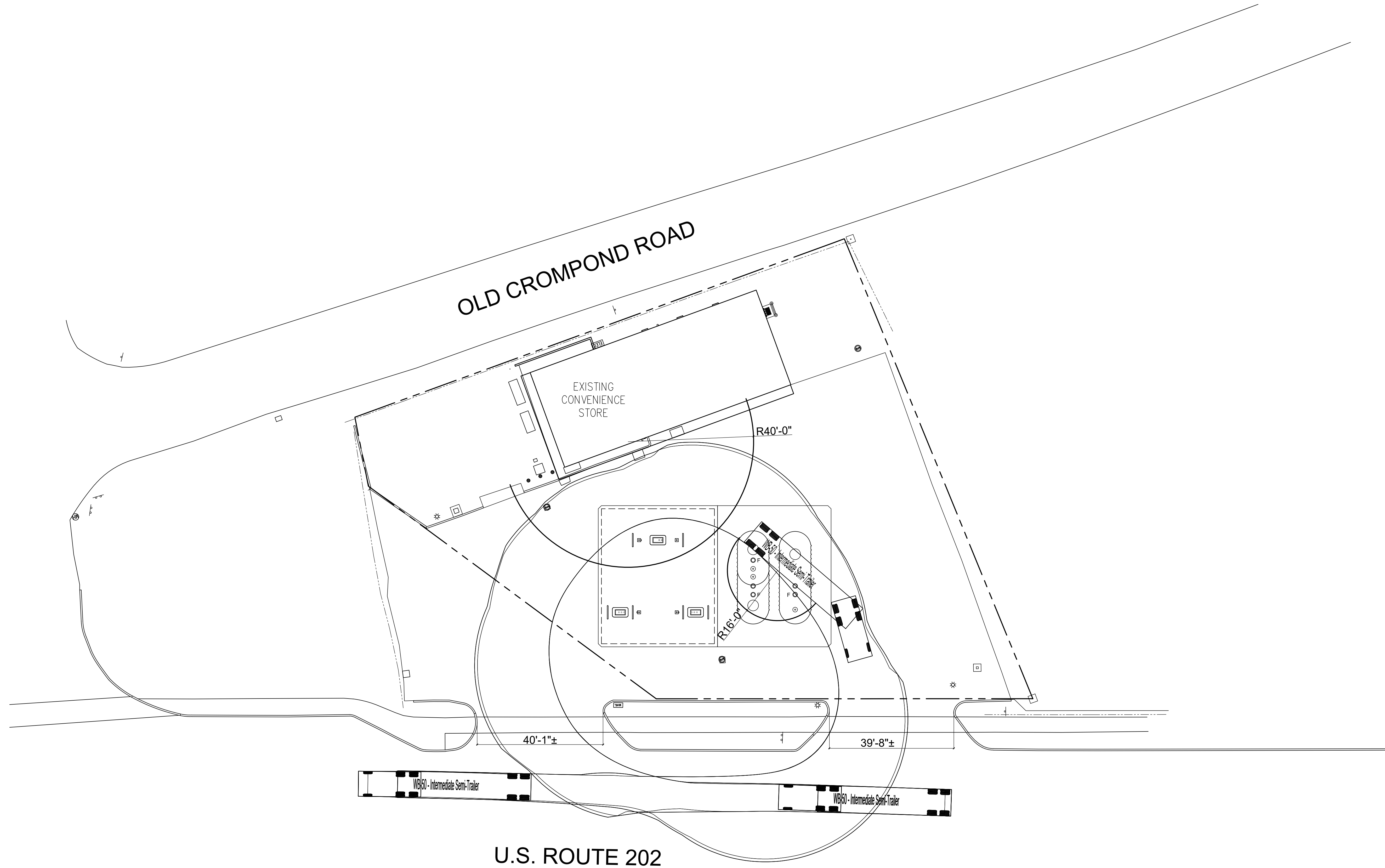
CORE STATES GROUP logo and contact information: 44 East Main Street, Somerville, MA 01906.

Job#: SEI-32507 Scale: AS NOTED Date: 08/24/21 Drawn By: GJD Checked By: CGC

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SHEET: G0.1 FUELING - USA



1

FUELING TRUCK ROUTE  
 1/16" = 1'-0"

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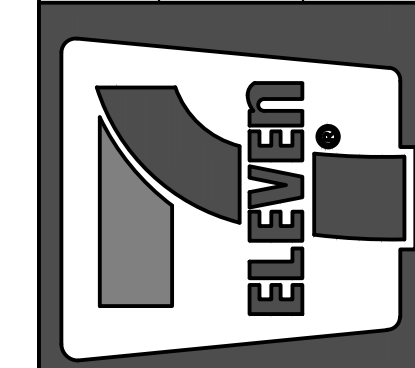
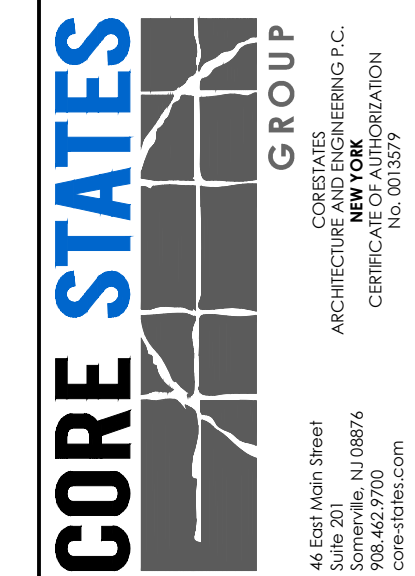


11-16-2021

SHEET:  
**G0.2**

FUELING - USA

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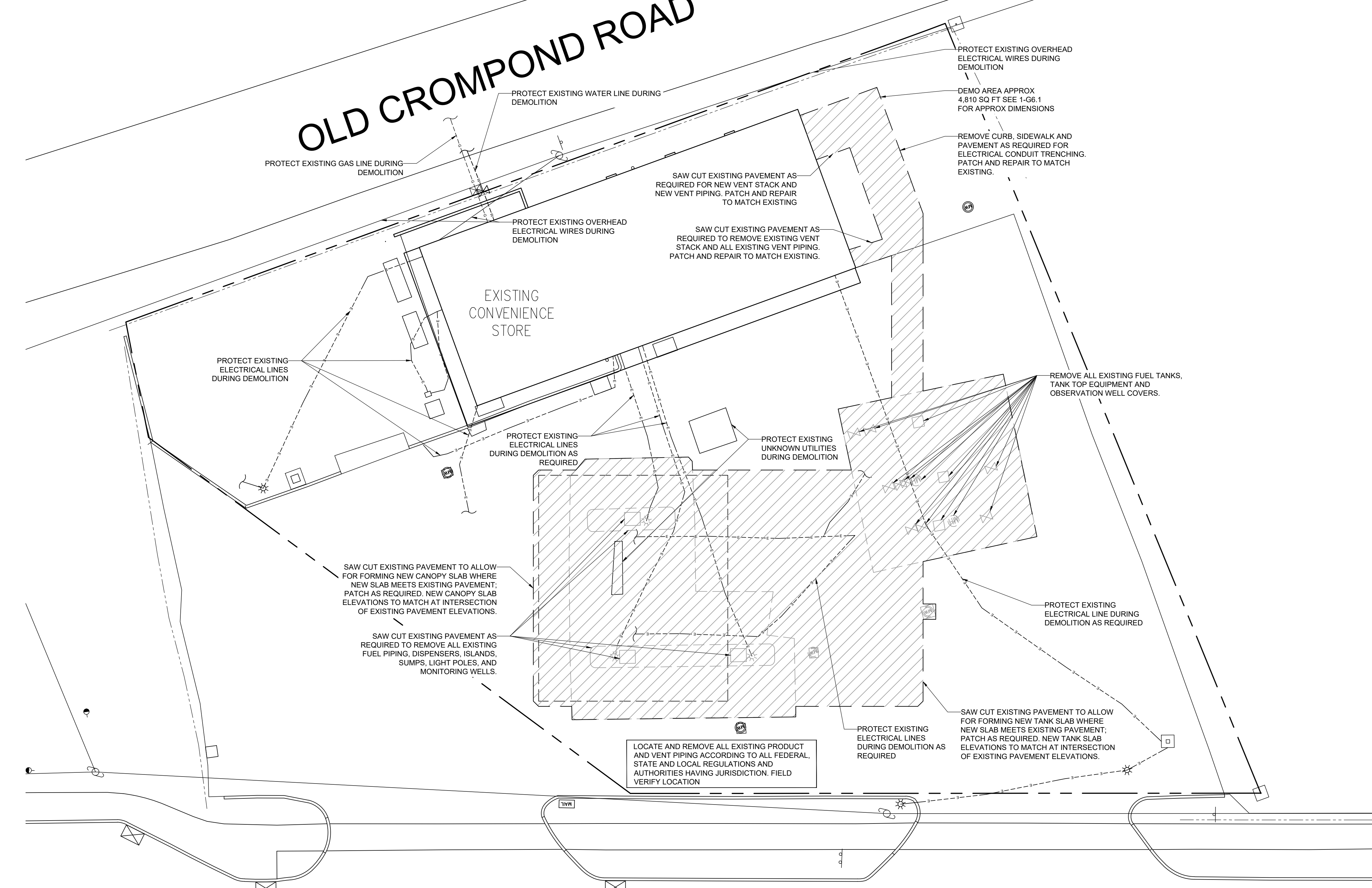


7-ELEVEN, INC.  
 3200 HACKBERRY ROAD, IRVING TEXAS 75063  
 7-ELEVEN #38912  
 3451 CROMPOND ROAD  
 YORKTOWN HEIGHTS, NEW YORK 10598  
 FUELING TRUCK ROUTE

Proto 12-01-2020

Rev. #	Date	Description

# OLD CROMPOD ROAD



**GENERAL NOTES**

- CONTRACTOR TO CUT AND REMOVE CONCRETE AS NECESSARY TO REMOVE ALL EXISTING PIPING. LOCATION OF REMOVAL AT DISPENSER ISLANDS IS APPROXIMATE AND IS BASED ON AVAILABLE INFORMATION.

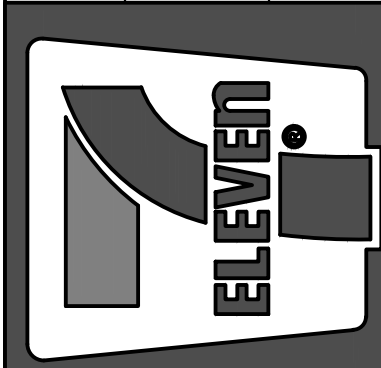
Rev. #	Date	Description

Proto 12-01-2020

**7-ELEVEN, INC.**  
 3200 HACKBERRY ROAD, IRVING TEXAS 75063

**7-ELEVEN #38912**  
 3451 CROMPOD ROAD  
 YORKTOWN HEIGHTS, NEW YORK 10598

**FUELING DEMOLITION PLAN**



**CORE STATES GROUP**

ARCHITECTS ENGINEERS P.C.  
 45 East Main Street  
 Somerville, NJ 08876  
 CORESTATES.COM  
 CERTIFIED No. 033327

Job#:	SEI-32507
Scale:	AS NOTED
Date:	08/24/21
Drawn By:	GJD
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## U.S. ROUTE 202

**1 DEMO PLAN**  
 3/32" = 1'-0"

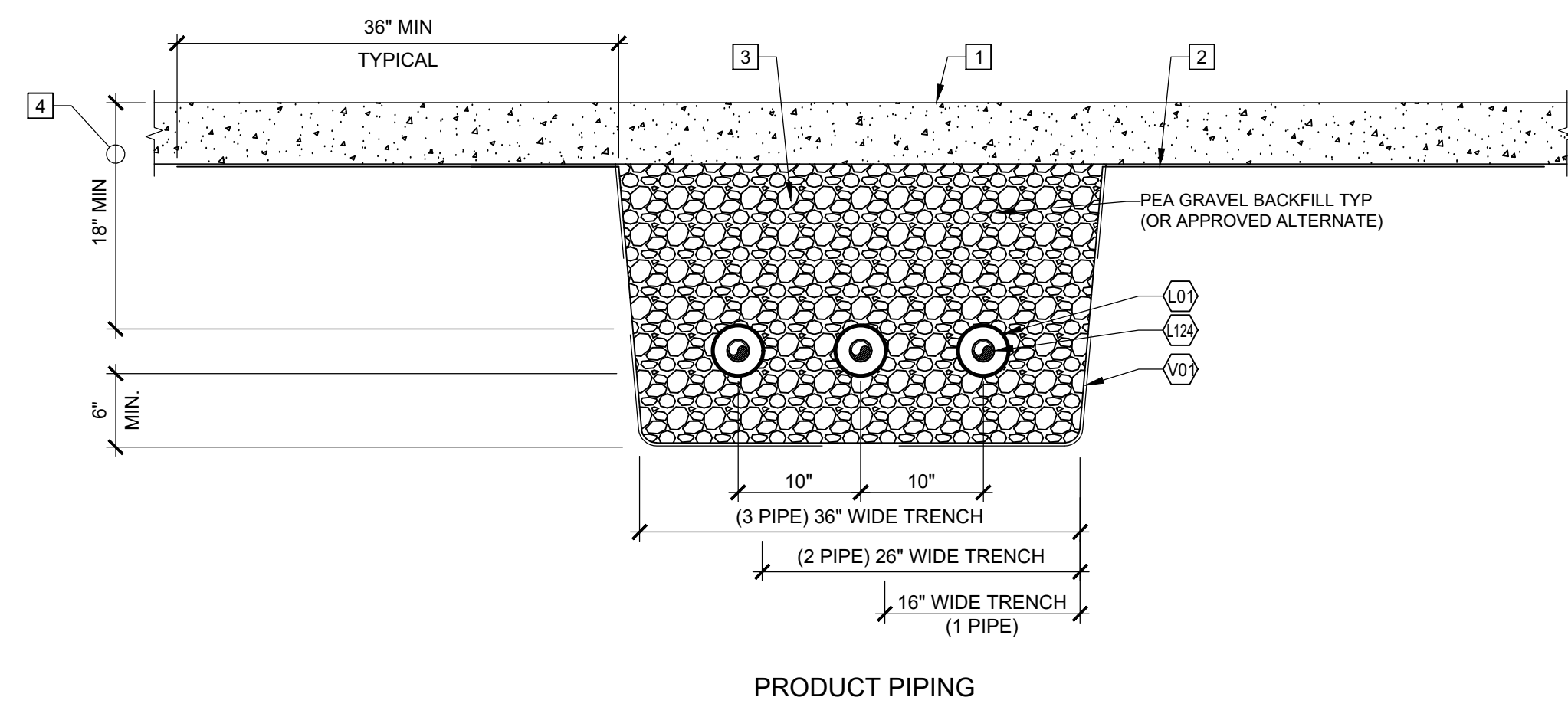
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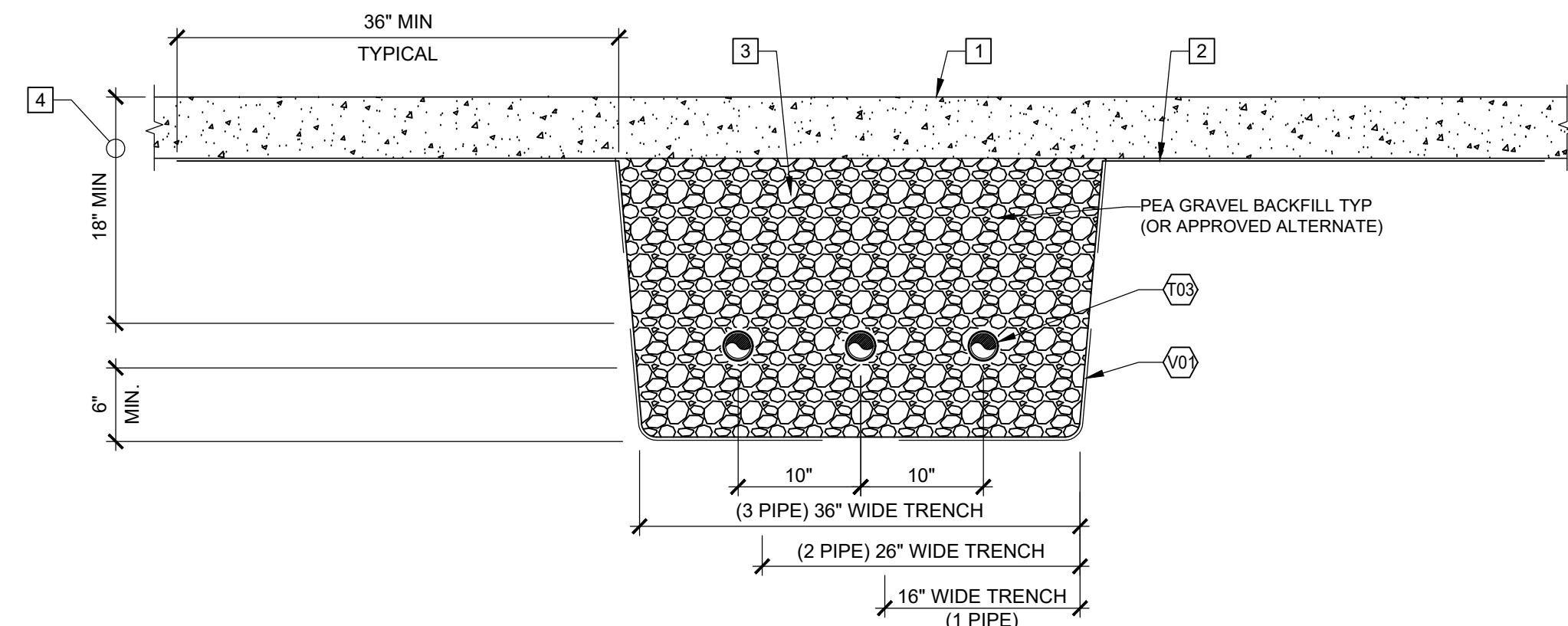
STATE OF NEW YORK  
 SEAL OF THE STATE ENGINEER  
 11-16-2021

SHEET:  
**G0.3**

FUELING - USA

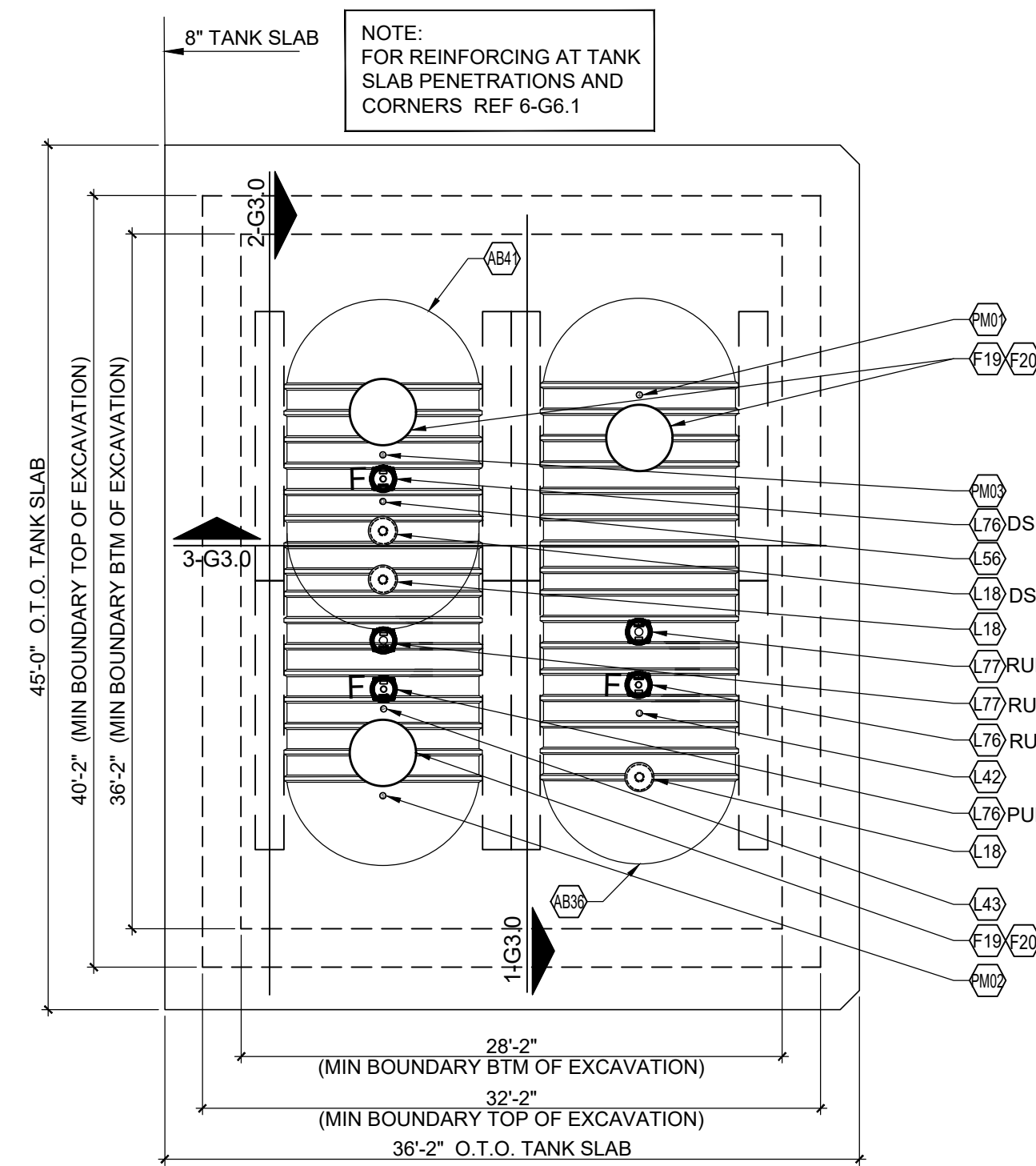


PRODUCT PIPING

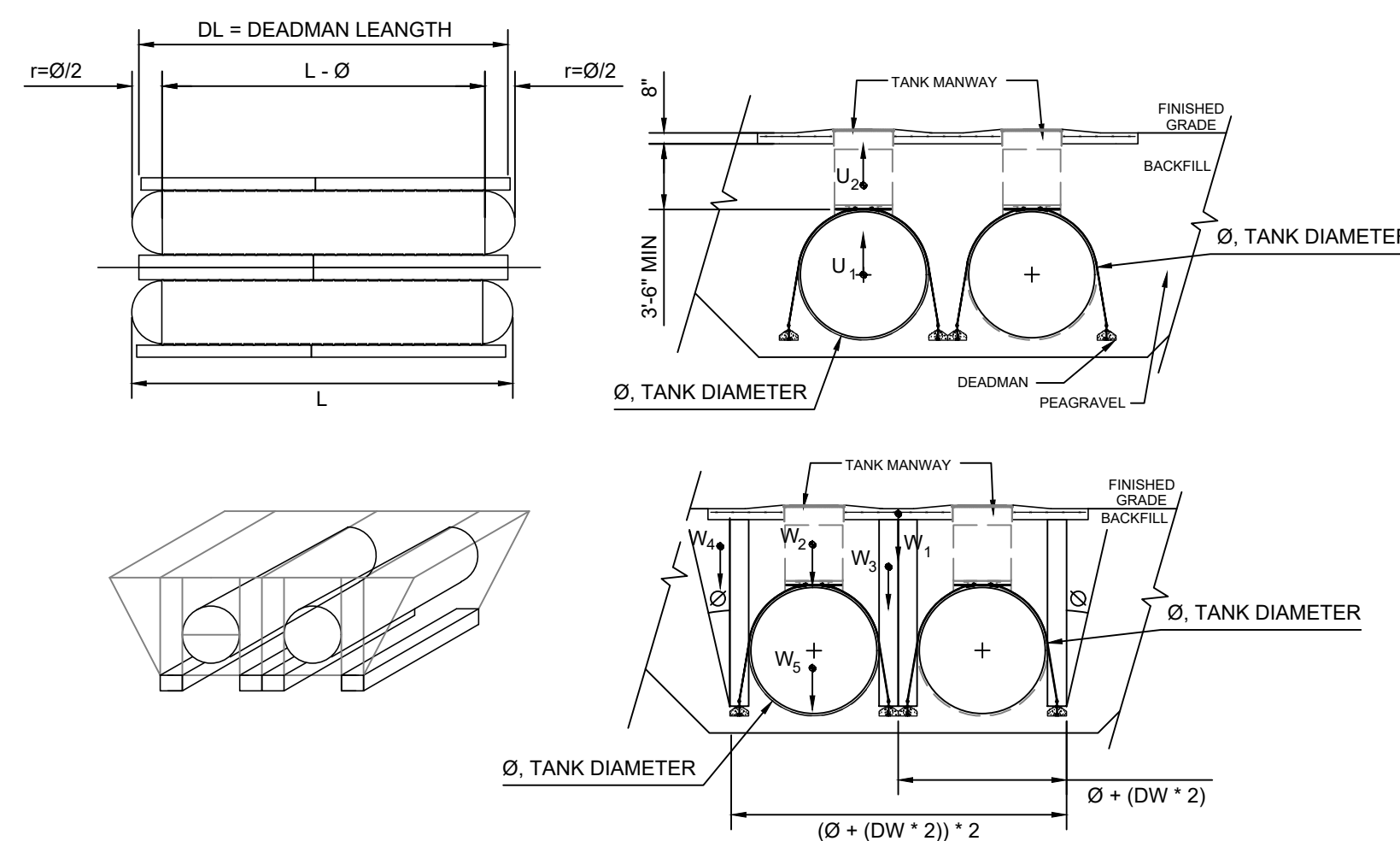


VENT PIPING

3 PIPING TRENCH SECTION  
1"=1'-0"



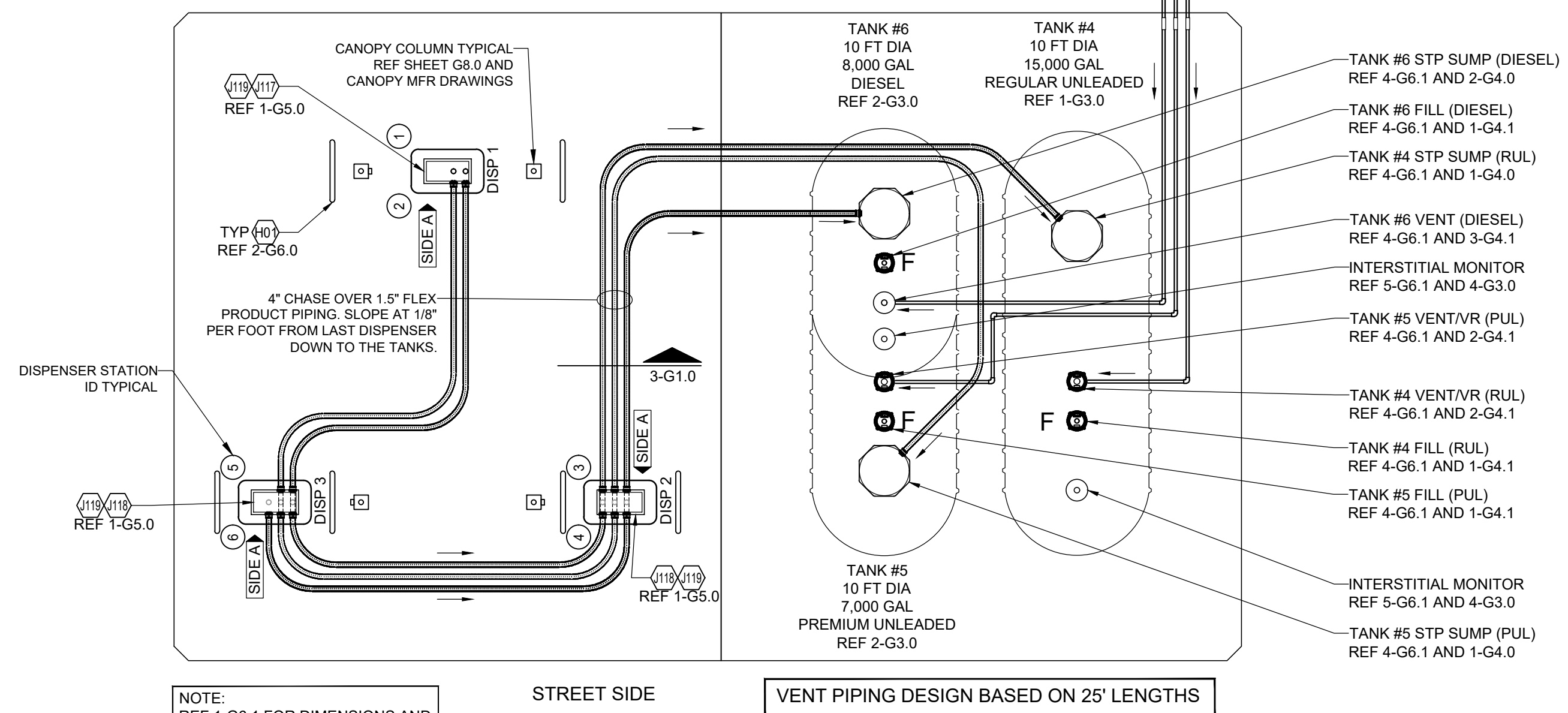
2 TANK SLAB PLAN  
1/8"=1'-0"



1 FUEL PIPING PLAN  
1/8"=1'-0"

FLOW RATE (RUL)	FLOW RATE (PUL)	FLOW RATE (DSL)
2 NOZZLES - 10 GPM	3 NOZZLES - 10 GPM	3 NOZZLES - 10 GPM
5 NOZZLES - 8 GPM	5 NOZZLES - 8 GPM	4 NOZZLES - 9 GPM
6 NOZZLES - 7 GPM	6 NOZZLES - 7 GPM	

STORE SIDE



NOTE: REF 1-G6.1 FOR DIMENSIONS AND LOCATIONS OF DISPENSERS.

VENT PIPING DESIGN BASED ON 25' LENGTHS

Underground Storage Tank Buoyancy Calculations for Fiberglass Tanks

Project #:	SEI-32507
Project Name:	Peekskill, NY (Store #38912)
Tank Manufacturer / Model:	Kerxes DW 10' 15K

Number of Tanks:	2	Assumptions	
Tank Dry Weight:	7000 lbs	100% saturation to finished grade	
Tank Volume:	15000 gallons	water =	62.4 lb/CF
Tank Diameter (Ø):	10 feet	submerged concrete =	87.6 lb/CF
Tank Bury Depth:	4.17 feet	submerged aggregate =	57.6 lb/CF
Tank Length (L):	25.43 feet		
Number of Sumps:	3		
Sump Diameter:	42 inches		
Tank Slab Length:	45 feet		
Tank Slab Width:	36.17 feet		
Tank Slab Thickness:	8 inches		
Deadman Length (DL):	28 feet		
Deadman Width (DW):	18 inches		
Deadman Height:	8.75 inches		

Tank & Sump(s) Uplift			
Tank	U1 = 30000 gal	x 62.4 lb/CF =	249,933 lbs
Sumps	U2 = 120.3 CF	x 62.4 lb/CF =	7,507 lbs
Total Uplift:	U = Σ U1		257,440 lbs UP

Dead Weights for Hold Down			
Concrete Slab	W1 = 1085.1 CF	x 87.6 lb/CF =	95,055 lbs
Backfill Above Tank	W2 = 2,645 CF	x 57.6 lb/CF =	152,367 lbs
Gravel Column Above Deadman (2 deadman per tank)	W3 = 2268.56 CF	x 57.6 lb/CF =	130,669 lbs
Soil Wedge Above Deadman (2 total)	W4 = 245,1409 CF	x 57.6 lb/CF =	14,120 lbs
Concrete Deadman (2 deadman per tank)	W4 = 122.5 CF	x 87.6 lb/CF =	10731 lbs
Dry Weight of Tank	W5 =		14,000 lbs
Total Weight	W = Σ W1		416,941 lbs DOWN

Net Force	F <sub>net</sub> = Σ W1 - Σ U1 =	159,502	DOWN
Factor of Safety	F.S. = 416,941 lbs / 257,440 lbs =	1.62	PASS

GENERAL NOTES

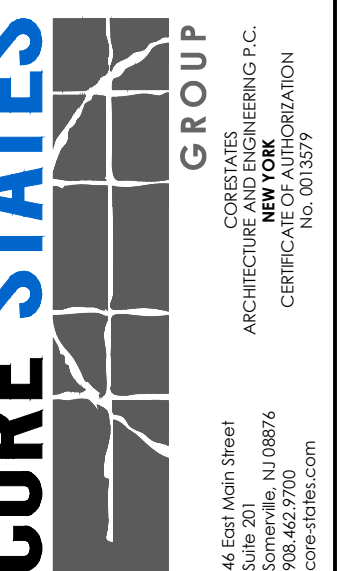
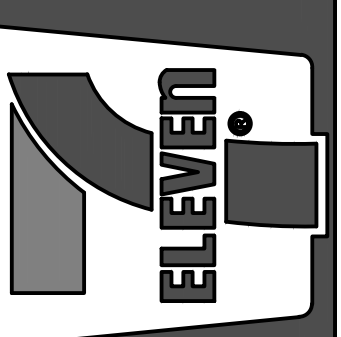
- ALL CONSTRUCTION SHALL MEET COUNTY STANDARDS. CONTRACTOR TO SECURE ENTIRE CONSTRUCTION AREA WITH CHAIN LINK FENCING DURING CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DIFFERENCES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE PLANS BEFORE PROCEEDING WITH CONSTRUCTION.
- FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF THE PIPING SYSTEM DURING CANOPY ERECTION AND CONCRETE FLATWORK INSTALLATION.
- AFTER COMPLETING INSTALLATION OF DISPENSERS, THE FUEL CONTRACTOR IS TO INSTALL BRIGHT ORANGE CONSTRUCTION FENCE AROUND ENTIRE DISPENSER.
- FUEL CONTRACTOR IS TO BE AWARE THAT ON THE DAY THE GASOLINE SYSTEM IS PUT INTO SERVICE, THE FUEL CONTRACTOR AND A GILBARCO AUTHORIZED SERVICE CONTRACTOR MUST BE ON SITE ONE (1) HOUR PRIOR TO STARTUP AND MUST REMAIN ON SITE THREE (3) ADDITIONAL HOURS FOR A TOTAL OF FOUR (4) HOURS. ANY COSTS INCURRED OVER FOUR (4) HOURS DUE TO FUELING SYSTEM ISSUES, SHOULD BE BILLED AS A CHANGE ORDER.

KEY NOTES

- 6" CONCRETE SLAB AT FUELING CANOPY. REF G0.1 FOR TOS ELEVATIONS.
- GEOTECH FABRIC MATERIAL TO EXTEND 36" PAST EACH SIDE OF PIPING TRENCH. ALL GEOTECH FABRIC MATERIAL SHALL BE PINNED PRIOR TO BACKFILLING. METHOD OF PINNING FABRIC AT TOP OF EXCAVATION TO BE APPROVED BY THE 7-ELEVEN CONSTRUCTION MANAGER.
- PIPING TRENCHES SHALL BE DUG IN SUCH A MANNER THAT THE TRENCH WIDTH IS EQUAL TO AT LEAST TWICE WIDTH OF ALL PIPING CONTAINED WITHIN. MAINTAIN A MINIMUM OF 4" (10cm) CLEAR DISTANCE BETWEEN PIPING POSITIONED IN THE TRENCH AND 6" 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.
- SITE CONDITIONS MAY CAUSE VARIATIONS WHICH MUST BE APPROVED BY 7-ELEVEN AND MANUFACTURER. PIPING BURIAL DEPTHS LESS THAN 18" REQUIRES 7-ELEVEN APPROVAL.

Rev. #	Date	Description

7-ELEVEN, INC.  
3200 HACKBERRY ROAD, IRVING TEXAS 75063  
7-ELEVEN #38912  
3451 CROMPOUND ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598  
FUELING PIPING AND TANK PLAN



Job#:	SEI-32507
Scale:	AS NOTED
Date:	08/24/21
Drawn By:	GJD
Checked By:	CGC

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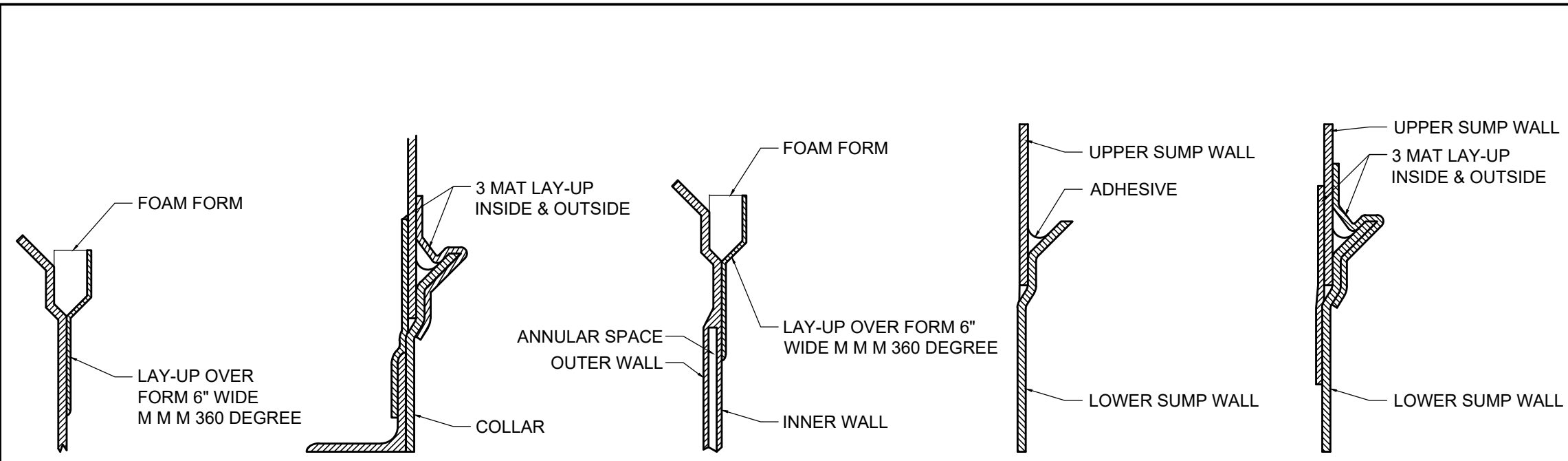


11-16-2021

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FUELING - USA

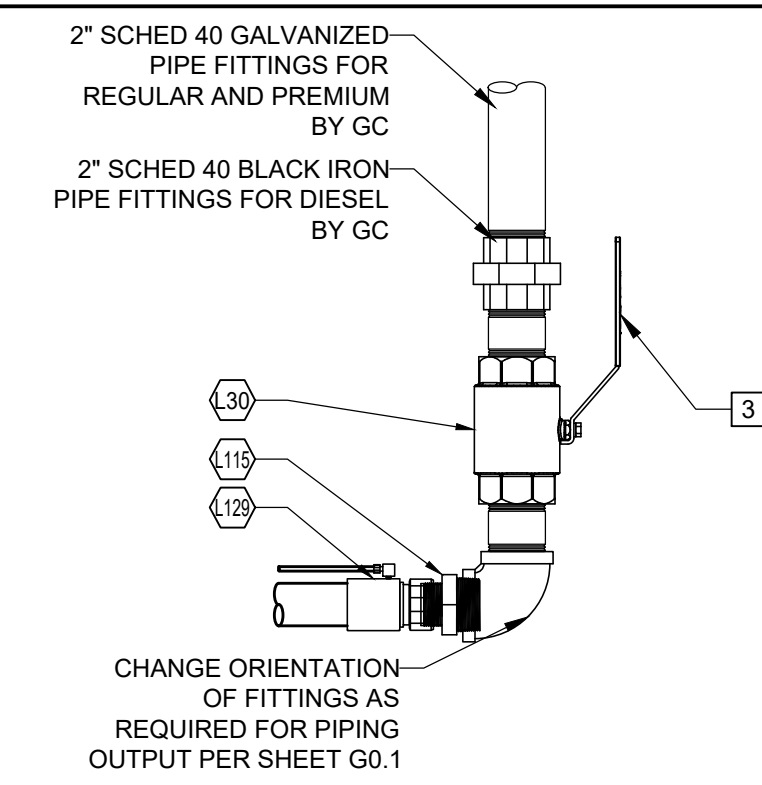




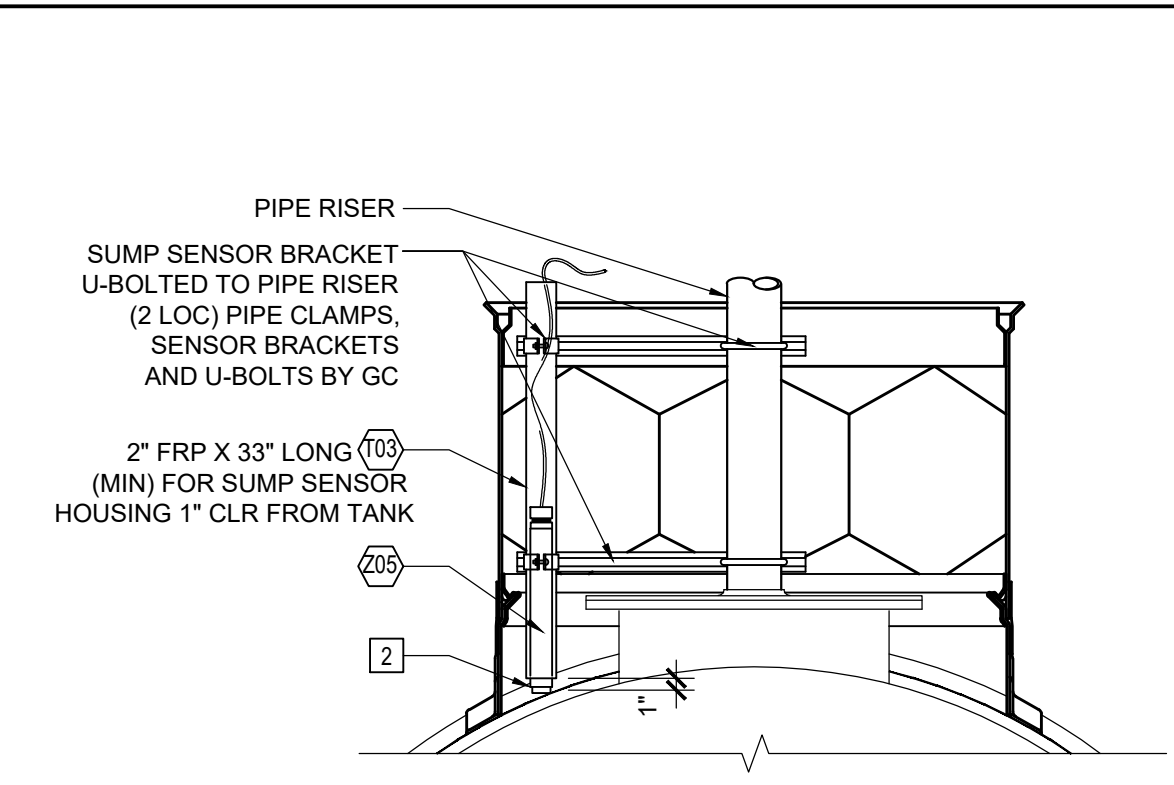


LAY-UP SAMPLES SHOWN ARE FOR REFERENCE ONLY. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC LAY-UP MATERIALS AND METHODS.

6 TANK SUMP LAYUP DETAILS  
NTS



5 FUEL PIPING TREE DETAILS  
1 1/2"=1'-0"

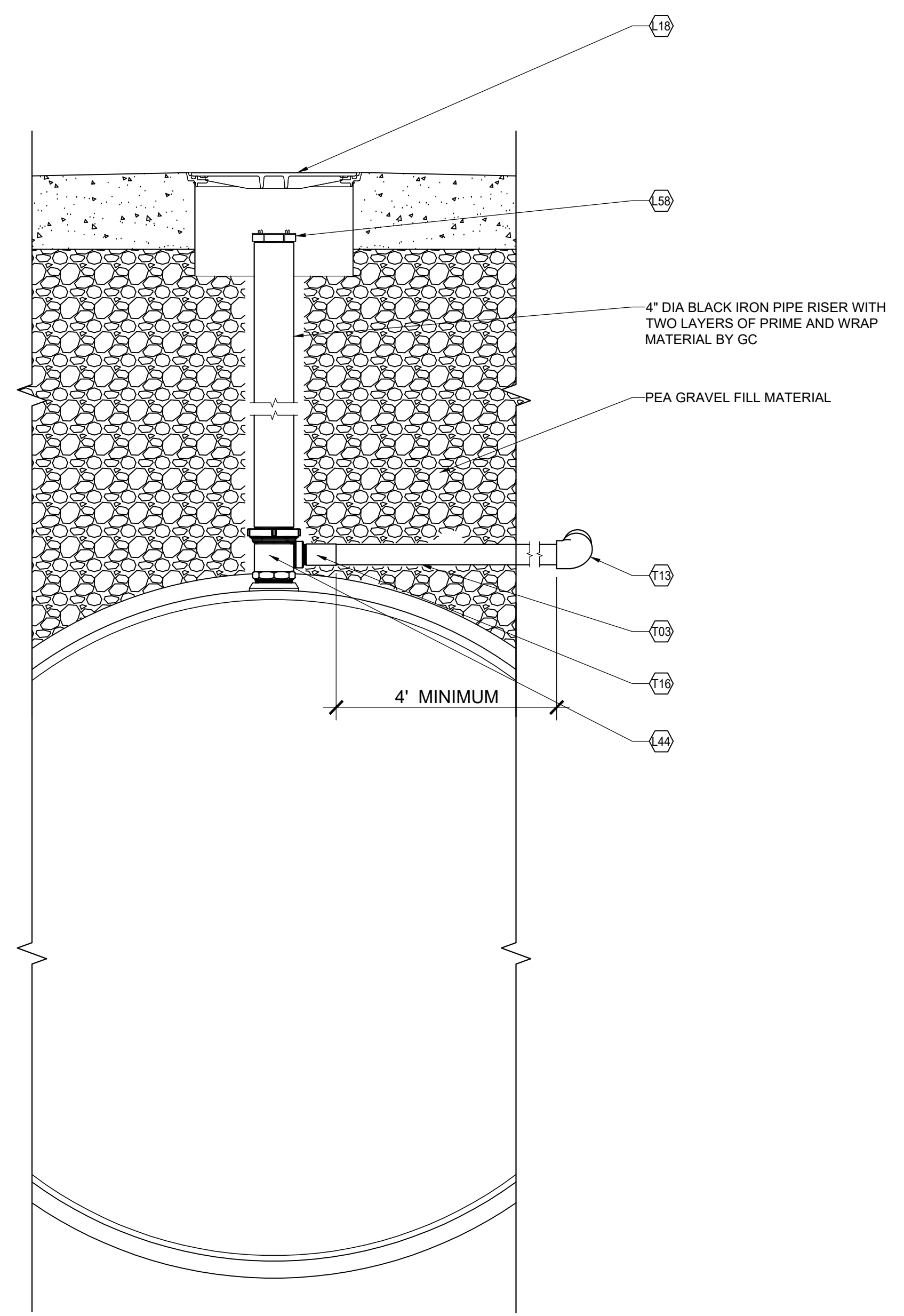


4 SUMP SENSOR AND SENSOR BRACKET DETAIL  
3/4"=1'-0"

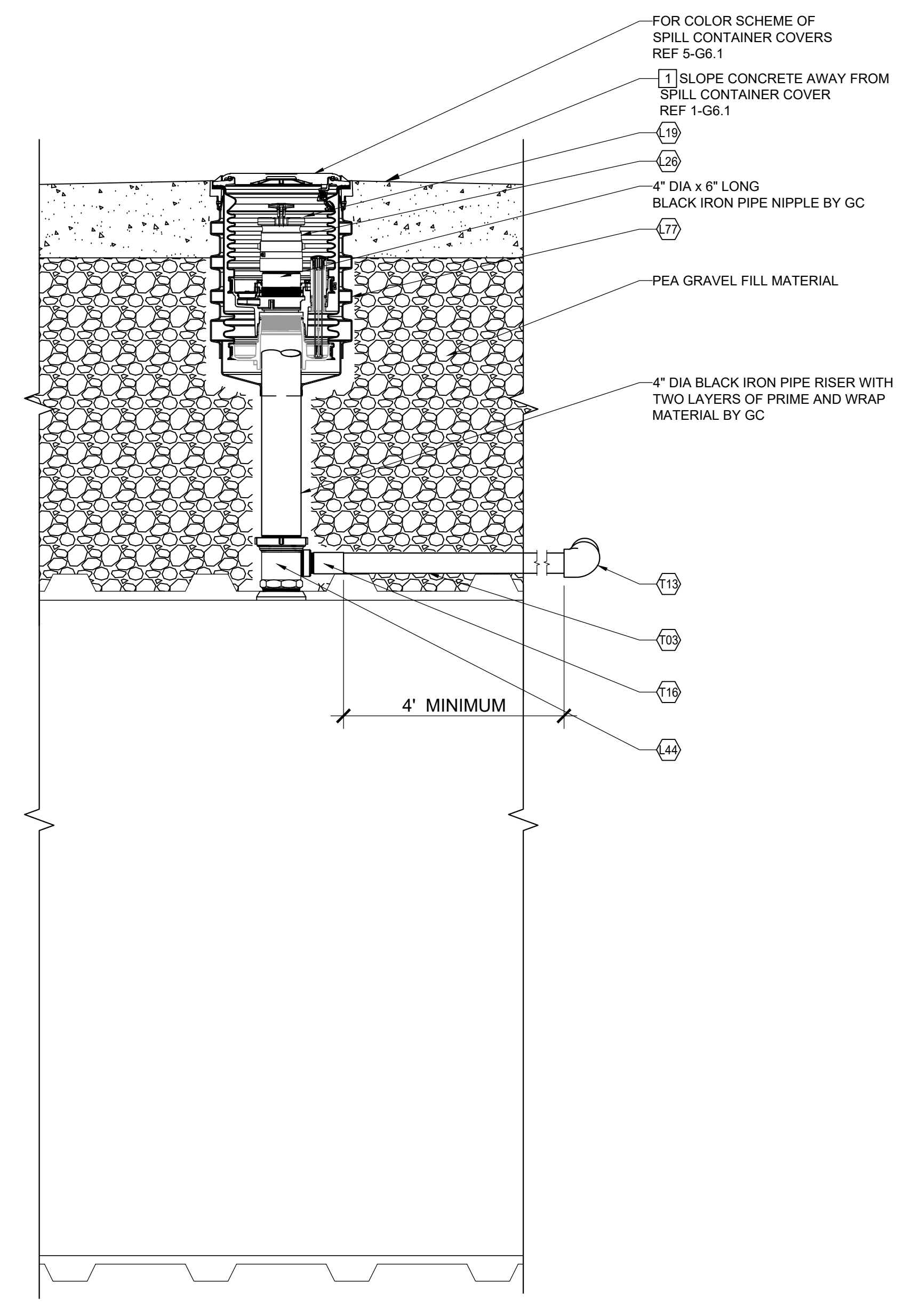
KEY NOTES

- CONCRETE SLAB, REF G0.1 FOR TOS ELEVATIONS. ALL MANHOLES COVERS WITHIN THE TANK SLAB AREA ARE TO BE SET 1" ABOVE THE FINISH GRADE AND SLOPE CONCRETE AWAY FROM MANWAY COVERS AT 2% GRADE. CROWN CONCRETE AS TO NOT INHIBIT WATER DRAINAGE OFF THE TANK SLAB (NO POOLING).
- SUMP SENSOR TO REST AT LOWEST POINT OF SUMP ENCLOSURE ON PRODUCT PIPING SIDE OF SUMP. TANK CONTRACTOR TO SUPPLY UNISTRUT BRACKETS, PIPE CLAMPS AND 2" FRP SLEEVE FOR 2-POINT MOUNTING OF THE SLEEVE.
- POSITION BALL VALVE FOR UNOBSTRUCTED USE OF SHUT-OFF HANDLE.
- OVERFILL PREVENTION VALVE INSTALLED PER MFR'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

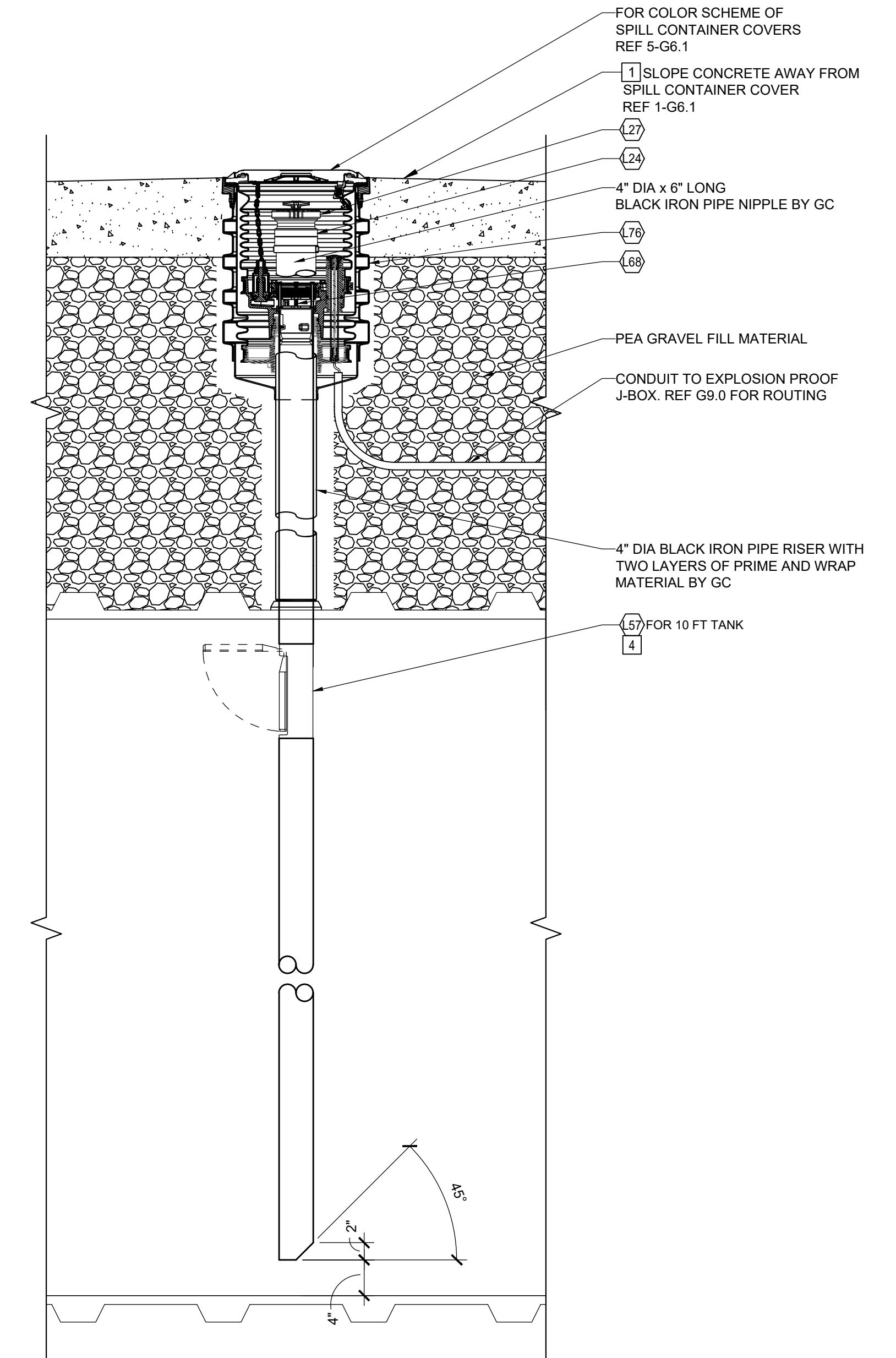
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3 DIESEL VENT DETAIL  
1"=1'-0"

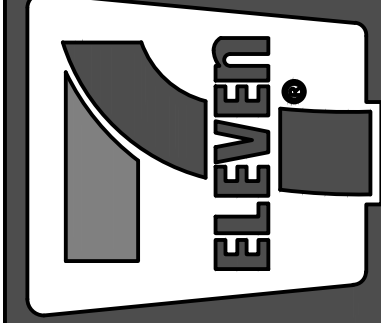


2 RUL / PUL VENT/VAPOR DETAIL  
1"=1'-0"



1 FUEL FILL CONTAINER DETAIL  
1"=1'-0"

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TANK SUMP DETAILS



CORE STATES GROUP  
ARCHITECTURAL ENGINEERING P.C.  
44 East Main Street  
Somerville, NJ 08876  
CERTIFIED LEED ACCREDITED  
CORP. NO. 0131379  
CORP. NO. 1030120

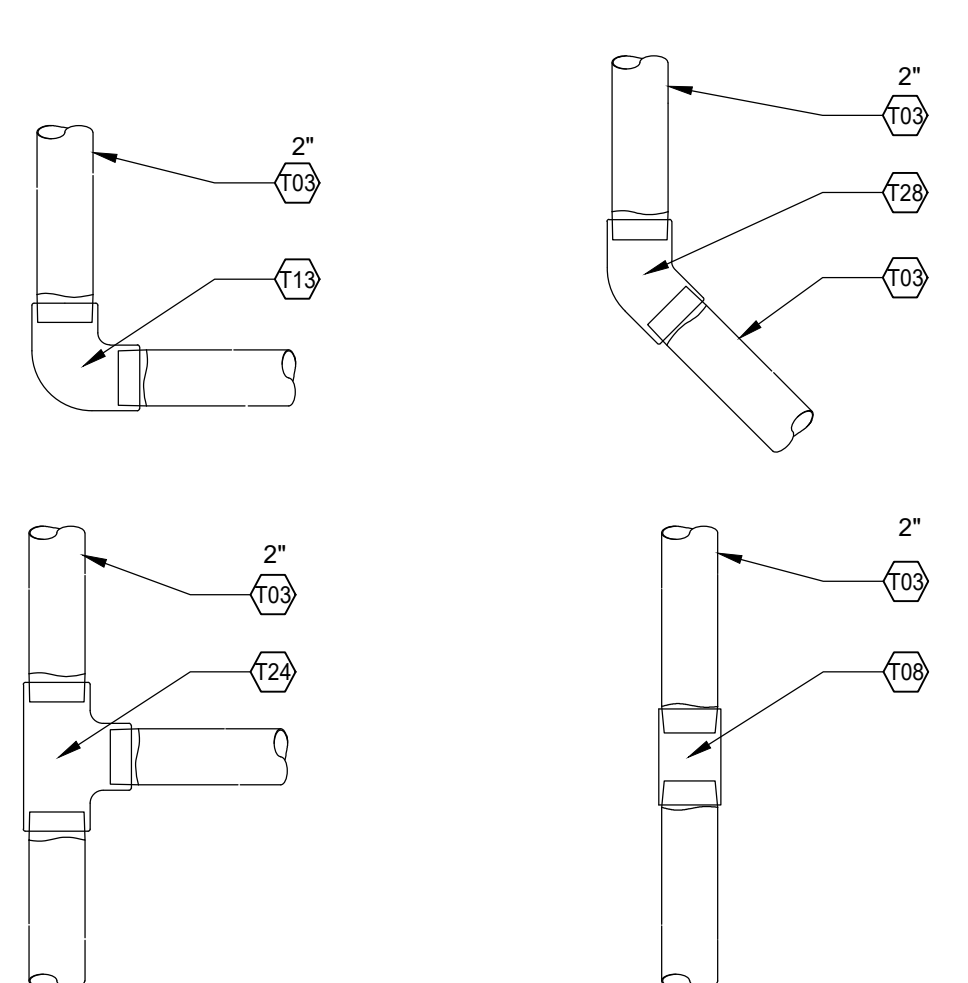
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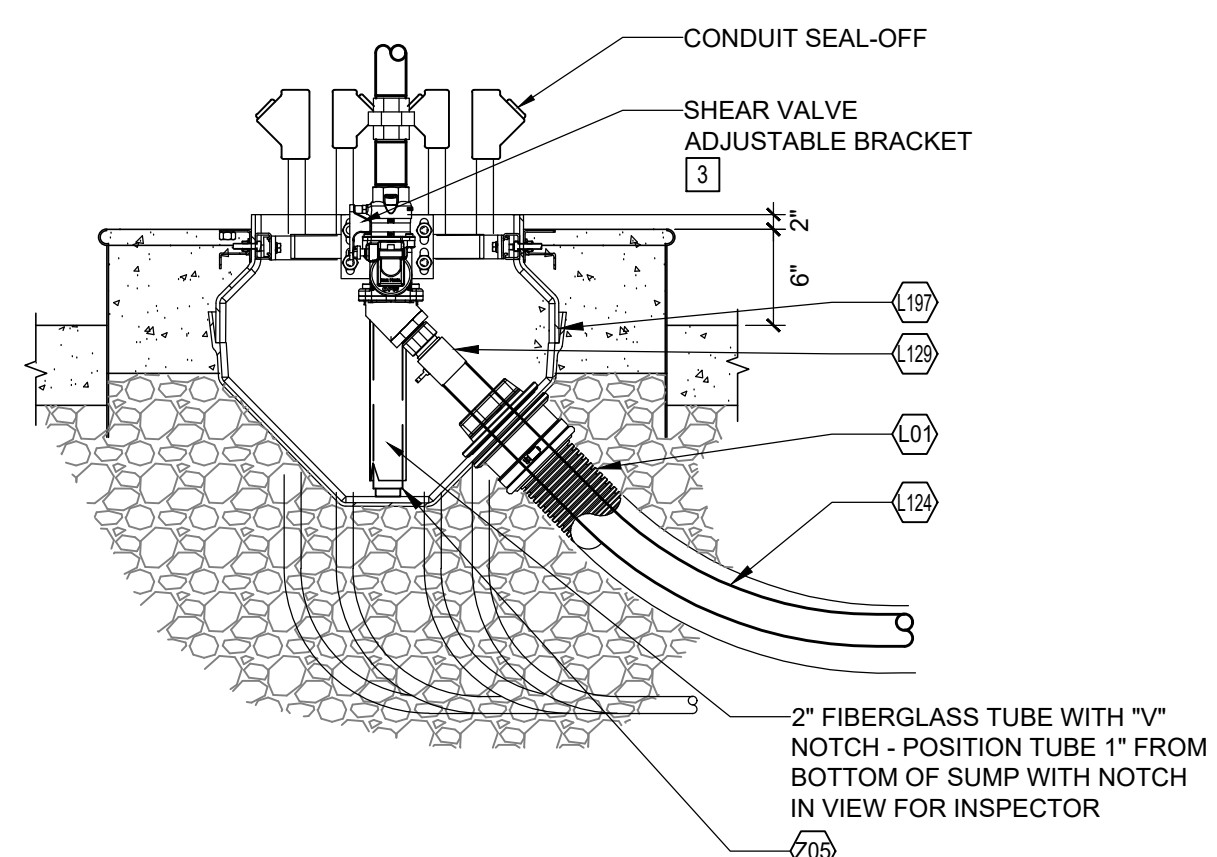


11-16-2021  
SHEET: G4.1  
FUELING - USA

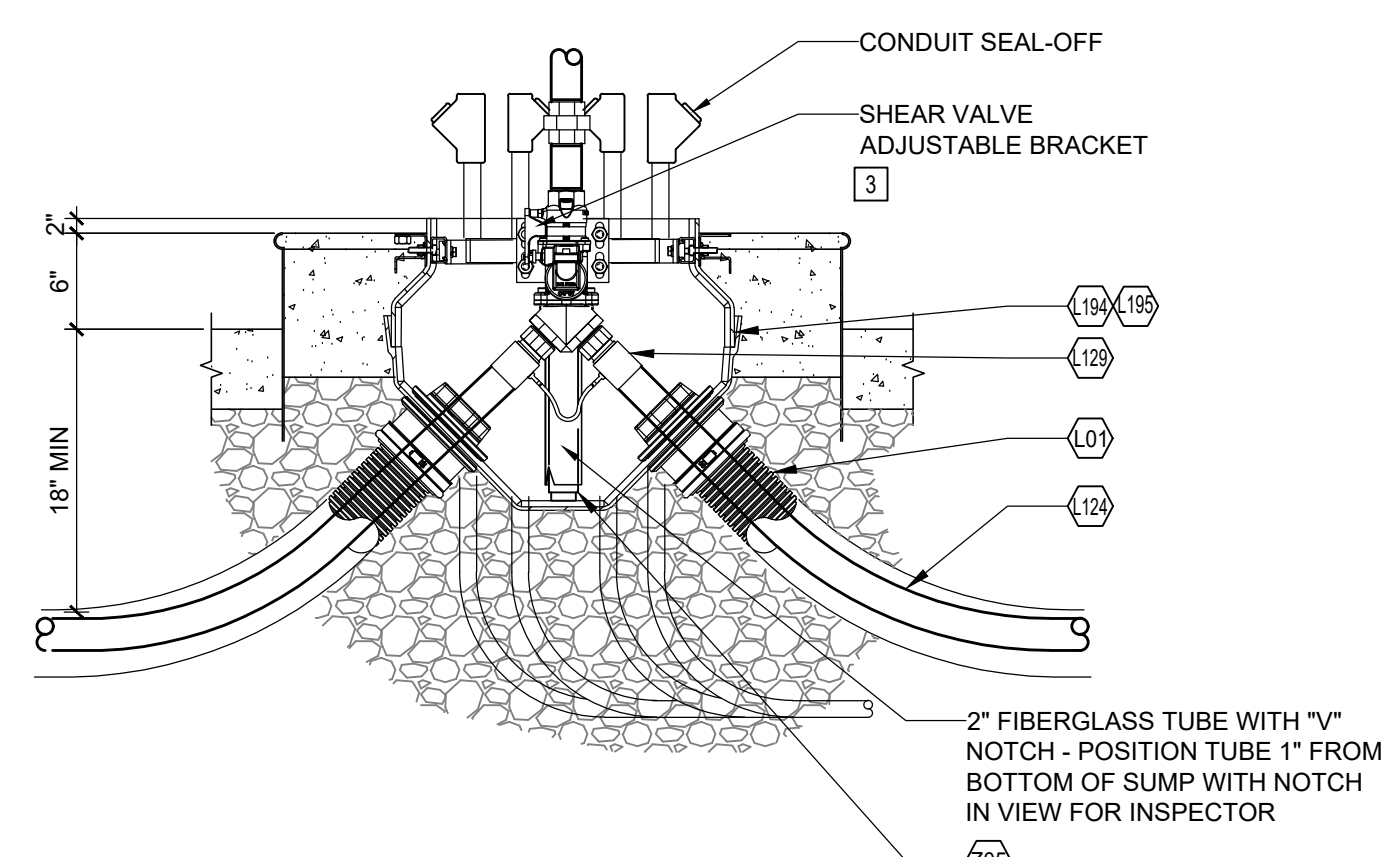




4 PIPING CONNECTIONS  
1" = 1'-0"

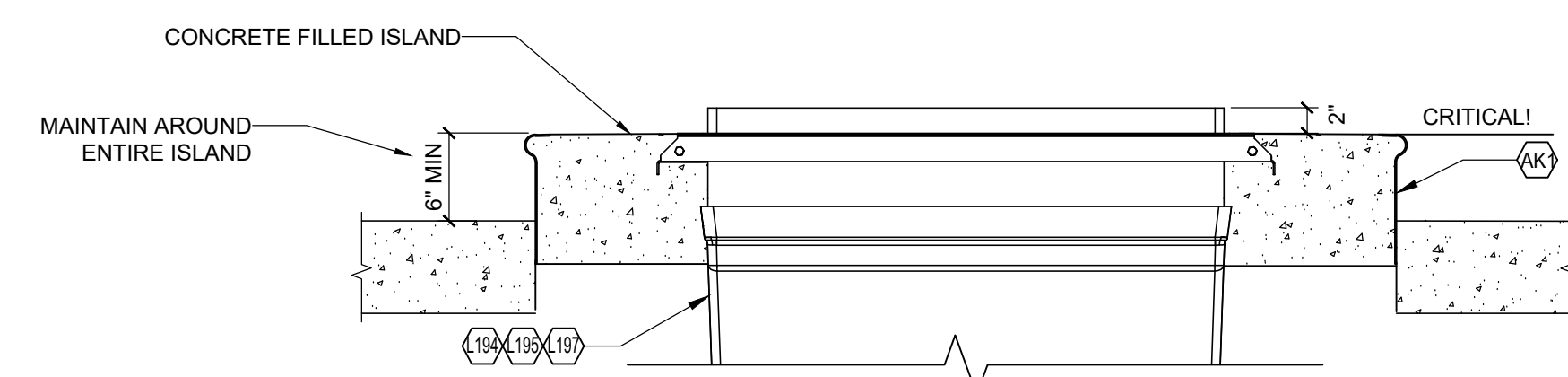


TERMINATING

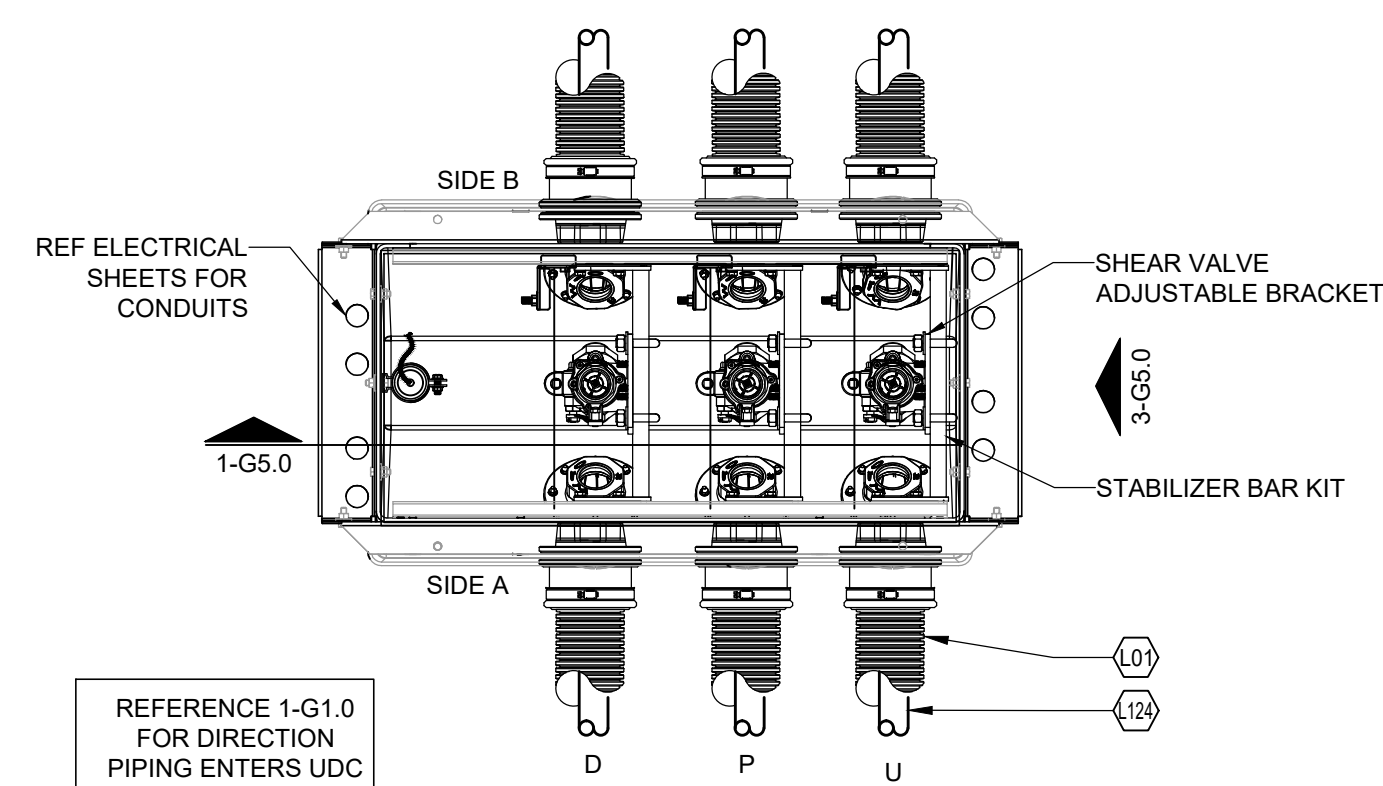


JUNCTION

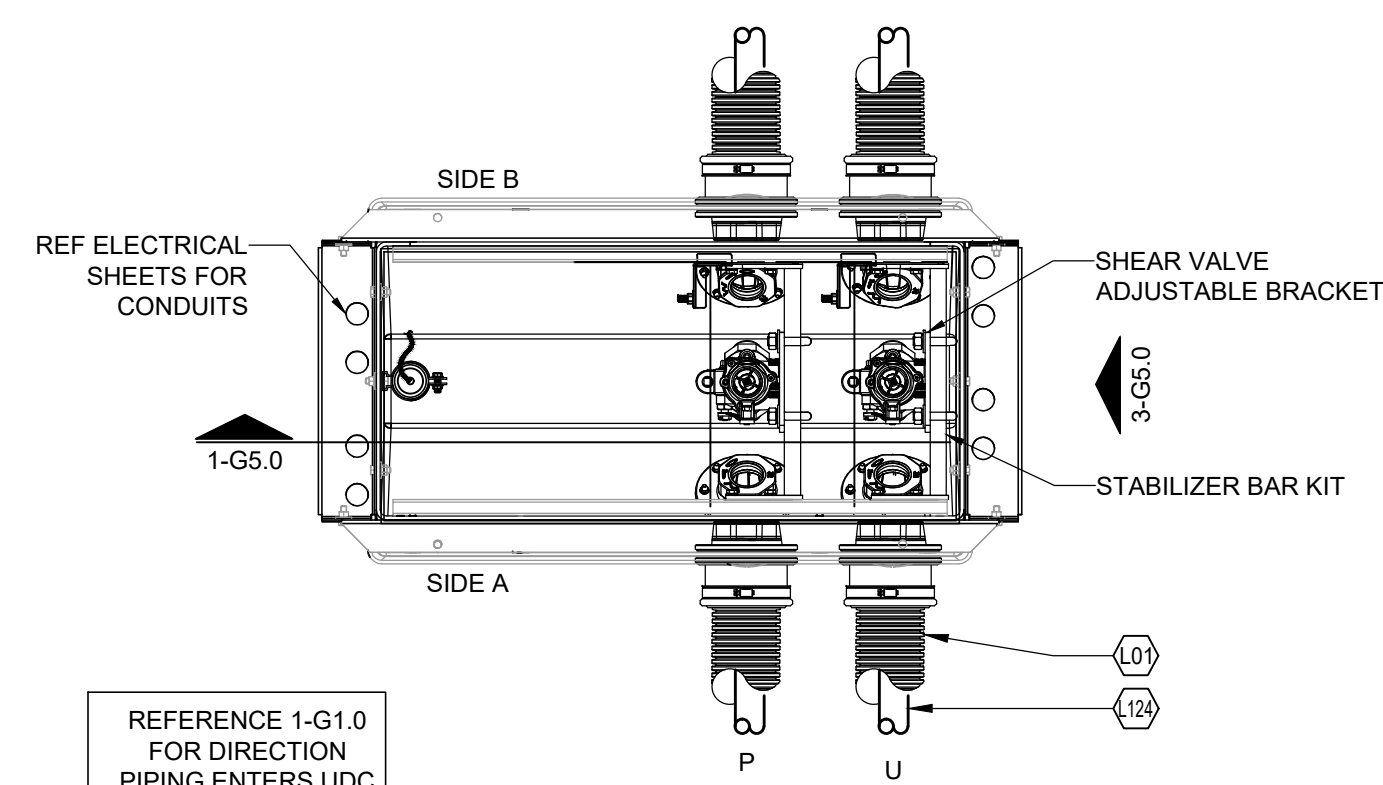
3 DISPENSER SUMP SECTION  
1" = 1'-0"



5 DISPENSER SUMP ELEVATIONS  
1" = 1'-0"

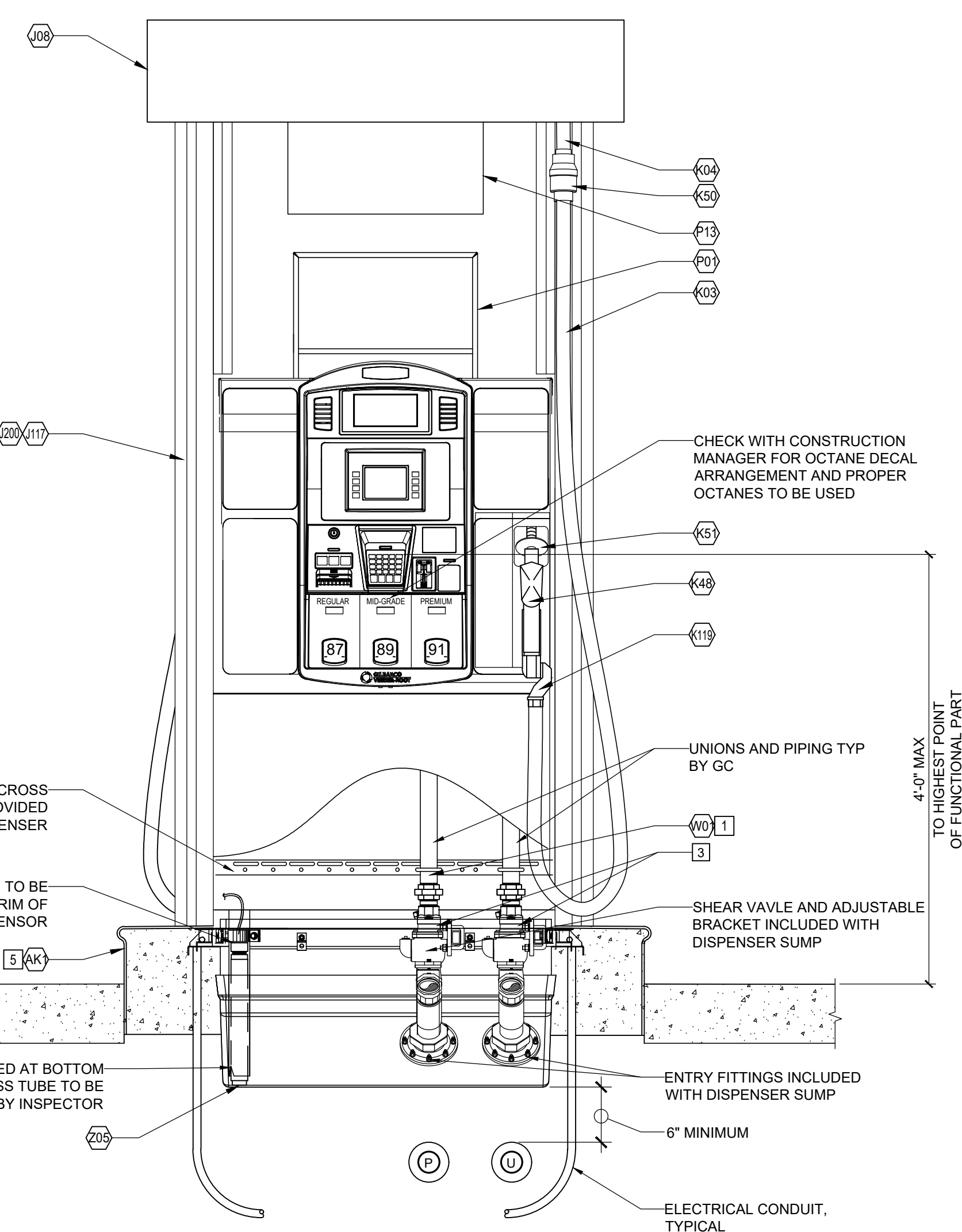


3+1 DISPENSER



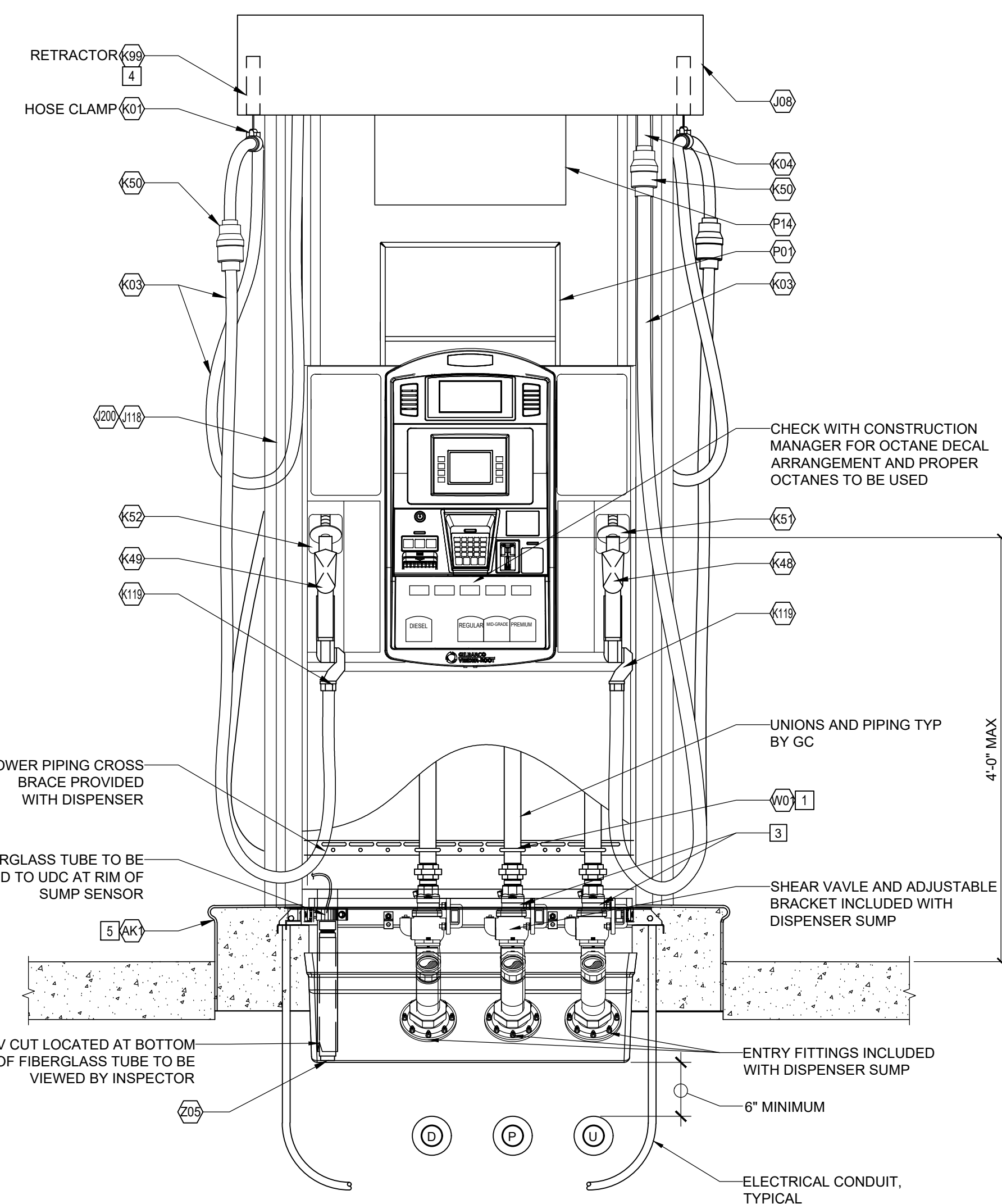
3+0 DISPENSER

2 DISPENSER SUMP - PLAN VIEWS  
1" = 1'-0"



3+0 DISPENSER

1 GILBARCO ENCORE 700S DISPENSER  
1" = 1'-0"



3+1 DISPENSER

GENERAL NOTES

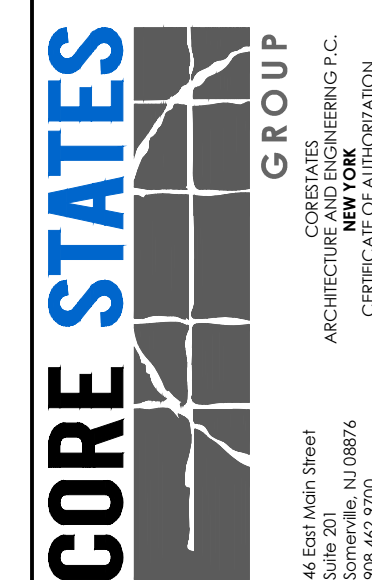
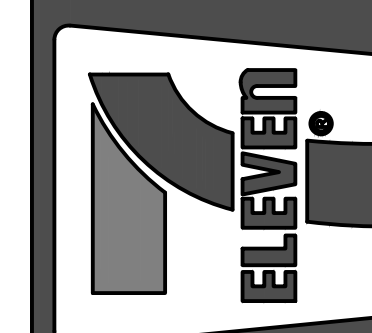
- AFTER ALL UNDERGROUND PIPING AND ELECTRIC CONDUITS ARE INSTALLED AND DURING EXCAVATION, BACKFILLING, AND CONCRETE POURING, A CONTINUOUS HYDROSTATIC TEST SHALL BE PERFORMED ON ALL SUMPS AND SPILL BUCKETS TO ENSURE TIGHTNESS AND PROPER INSTALLATION.
- SUMP TO BE CLEANED OF DEBRIS AND DRIED AFTER TESTING.

KEY NOTES

- SOURCE NORTH AMERICA TO SUPPLY U-BOLTS TO SECURE PIPING TO CROSS BRACKETS SUPPLIED BY GILBARCO.
- CRITICAL - MUST HAVE 2" RAIN LIP ABOVE INTEGRAL RAIN LIP FRAME.
- SHEAR SECTIONS OF SHEAR VALVES SHALL BE MOUNTED FLUSH WITH TOP OF PAVEMENT.
- HOSE RETRACTOR REQUIRES FIELD MODIFICATION, REF MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC USE.
- CROWN CONCRETE AT BASE OF ISLANDS TO PROMOTE DRAINAGE AND INHIBIT POOLING AROUND DISPENSER ISLANDS.

Rev #	Date	Description
1	12-01-2020	Proto 12-01-2020

7-ELEVEN, INC.  
3200 HACKBERRY ROAD, IRVING TEXAS 75063  
7-ELEVEN #38912  
3451 CROMPOUND ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598  
DISPENSER AND SUMP DETAILS



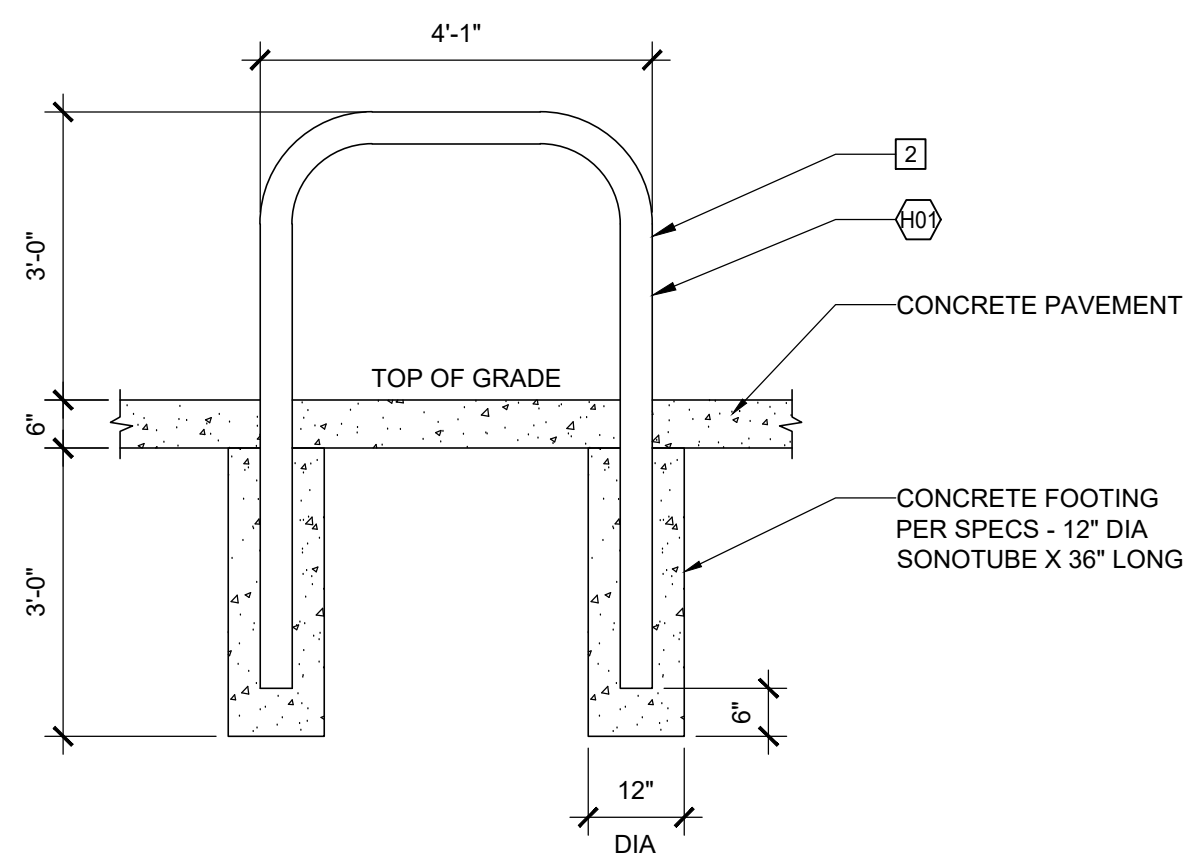
Job#:	SEI-32507
Scale:	AS NOTED
Date:	08/24/21
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Checked By:	CGC

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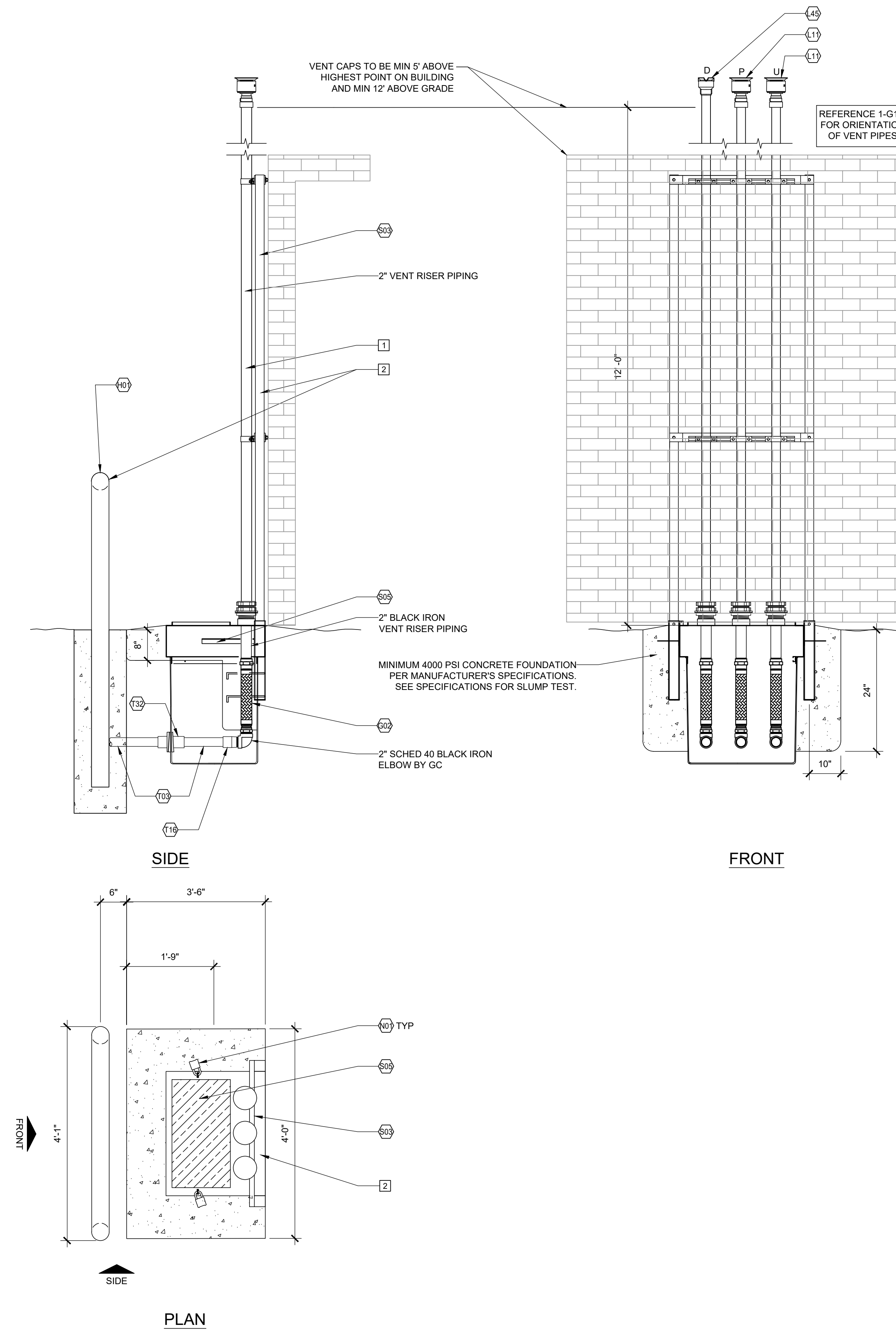


11-16-2021

SHEET:  
**G5.0**  
FUELING - USA



2 HOOP BOLLARD DETAIL  
 1/2"=1'-0"



1 TANK VENT RISER SECTIONS  
 3/4"=1'-0"

KEY NOTES

- 1 PAINT VENT PIPES PER GULF BRANDING SPECIFICATIONS.
- 2 PAINT VENT RACK, BOLLARDS AND ALL OTHER EXPOSED METALS PER GULF BRANDING SPECIFICATIONS.

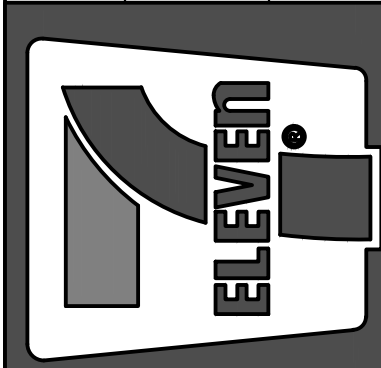
Rev. #	Date	Description

Proto 12-01-2020

7-ELEVEN, INC.  
 3200 HACKBERRY ROAD, IRVING TEXAS 75063

7-ELEVEN #38912  
 3451 CROMPOUND ROAD  
 YORKTOWN HEIGHTS, NEW YORK 10598

REMOTE VENT AND DETAILS

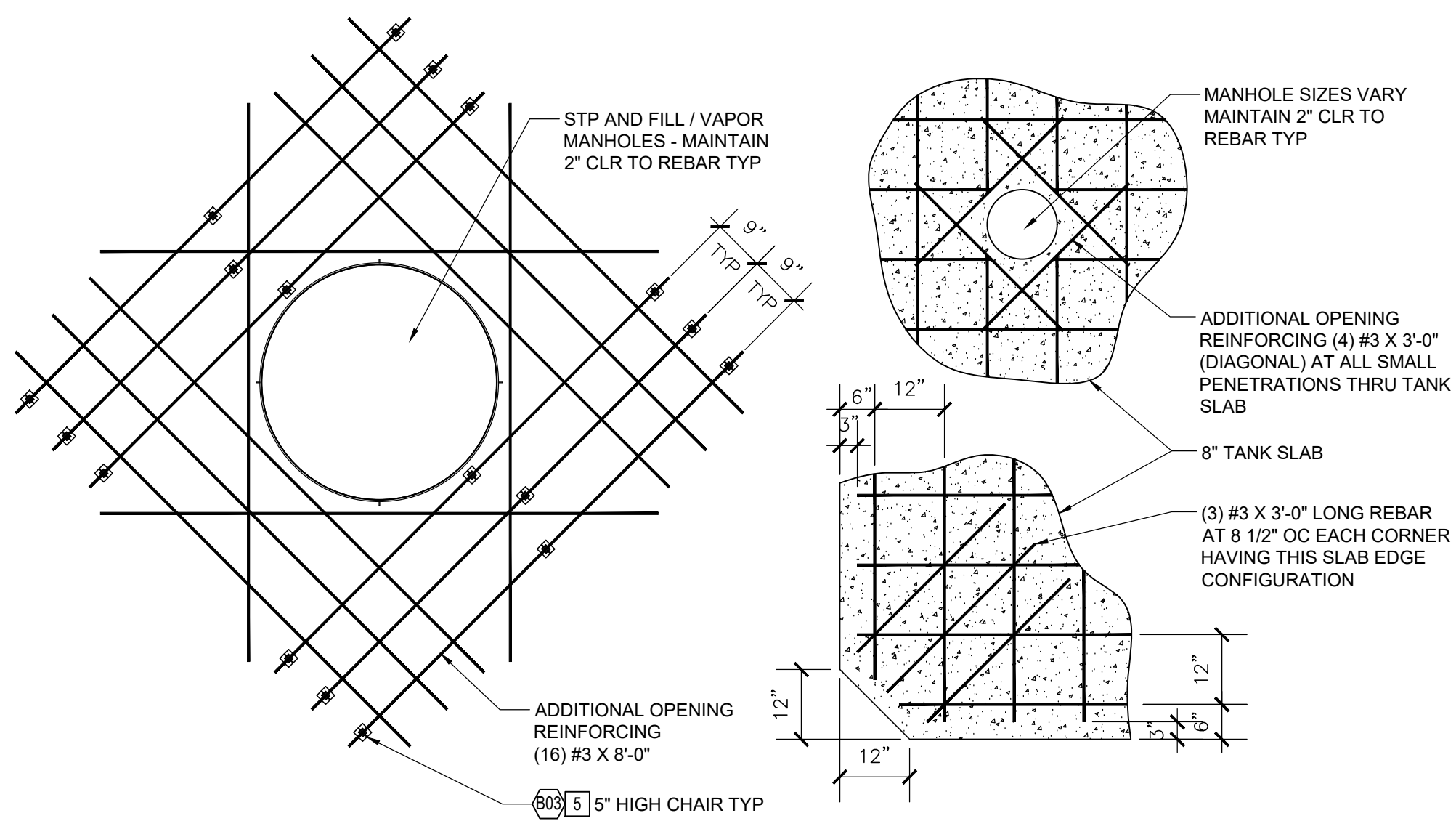


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 Somerville, NJ 08876  
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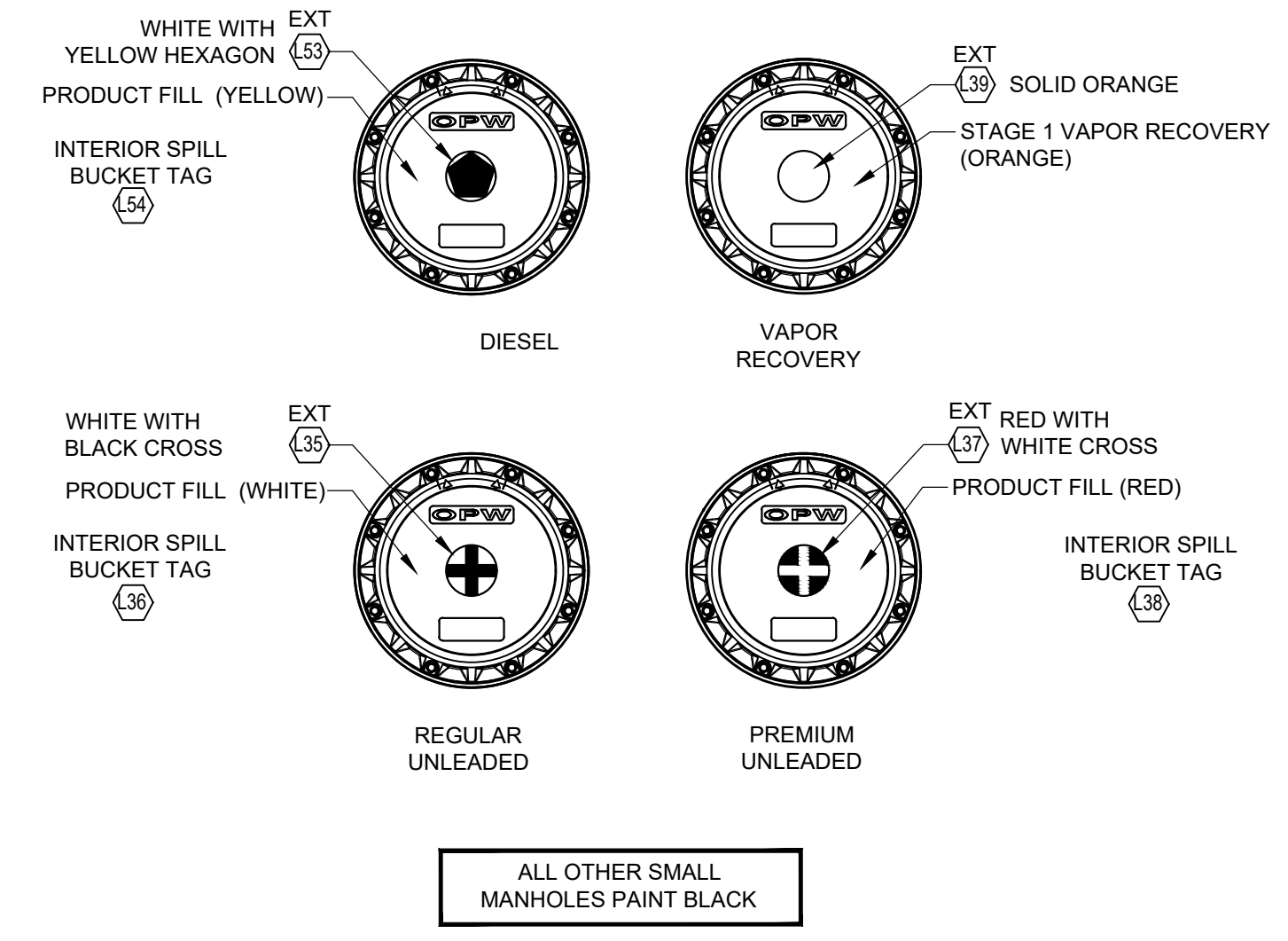
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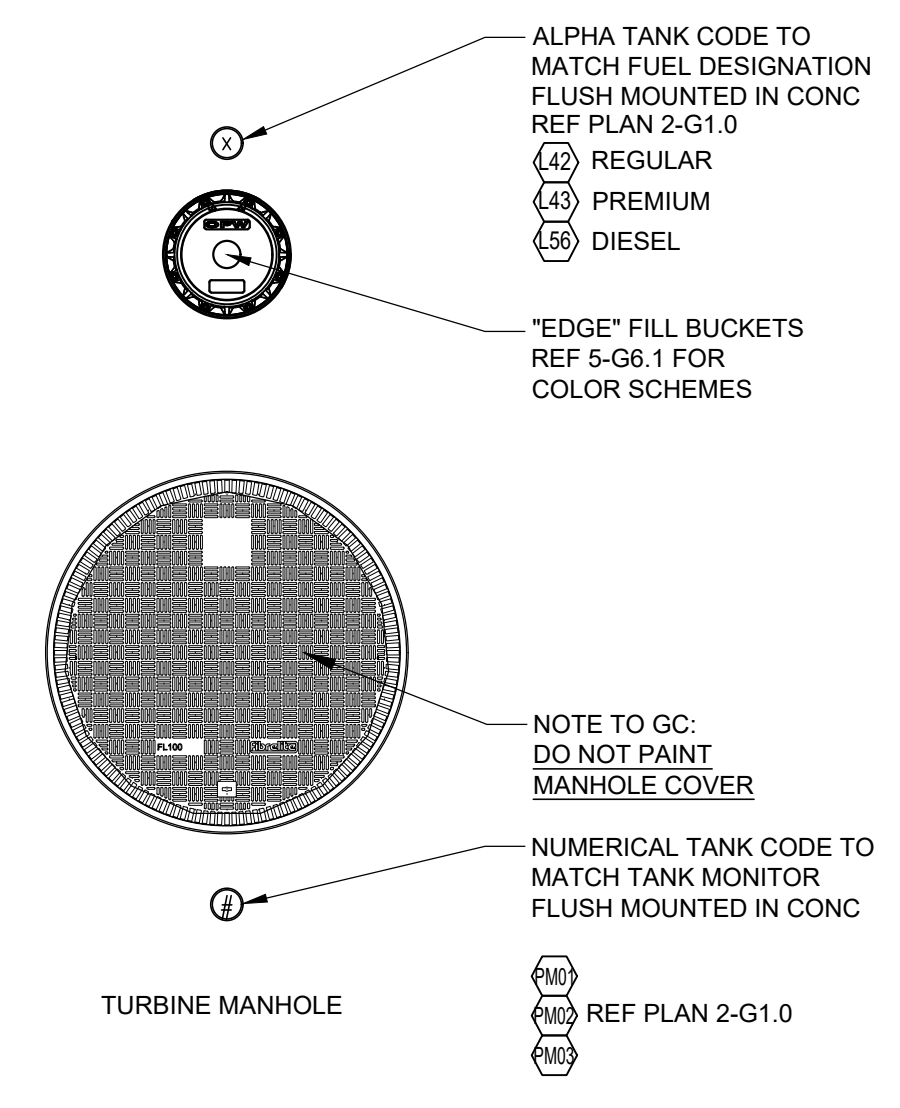




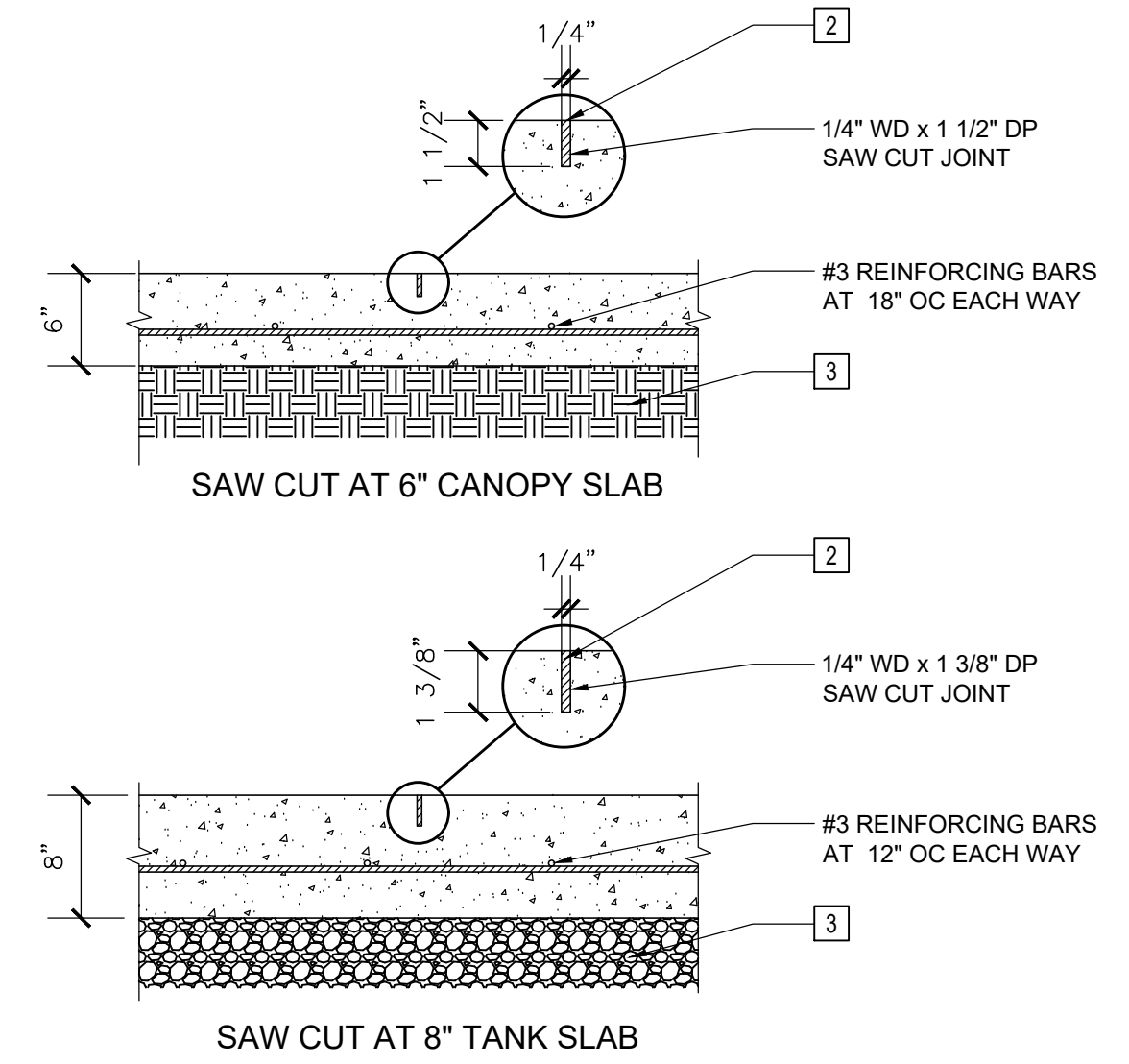
6 SLAB REINFORCING DETAILS  
1/2"=1'-0"



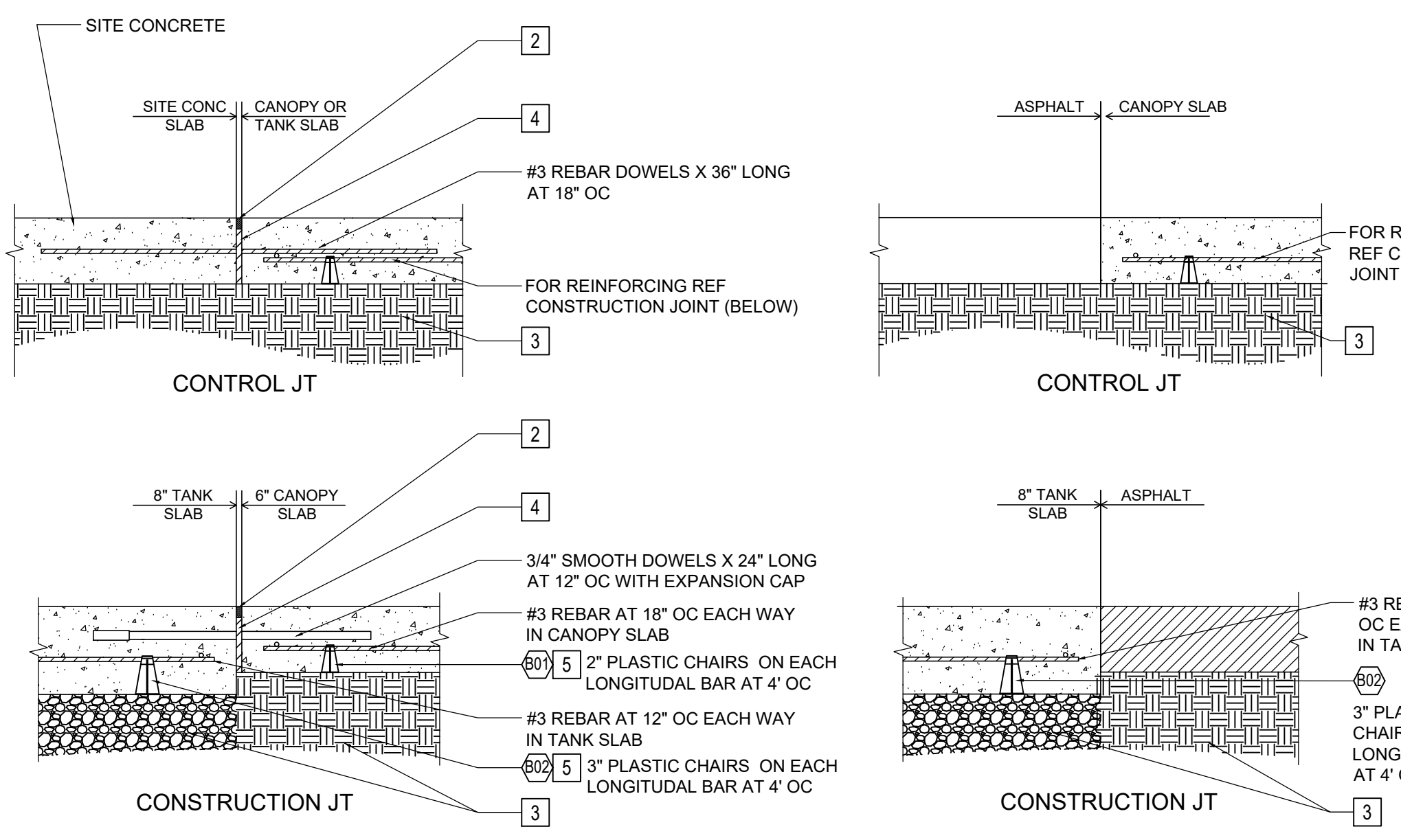
5 MANHOLE COLOR SCHEDULE  
1/4"=1'-0"



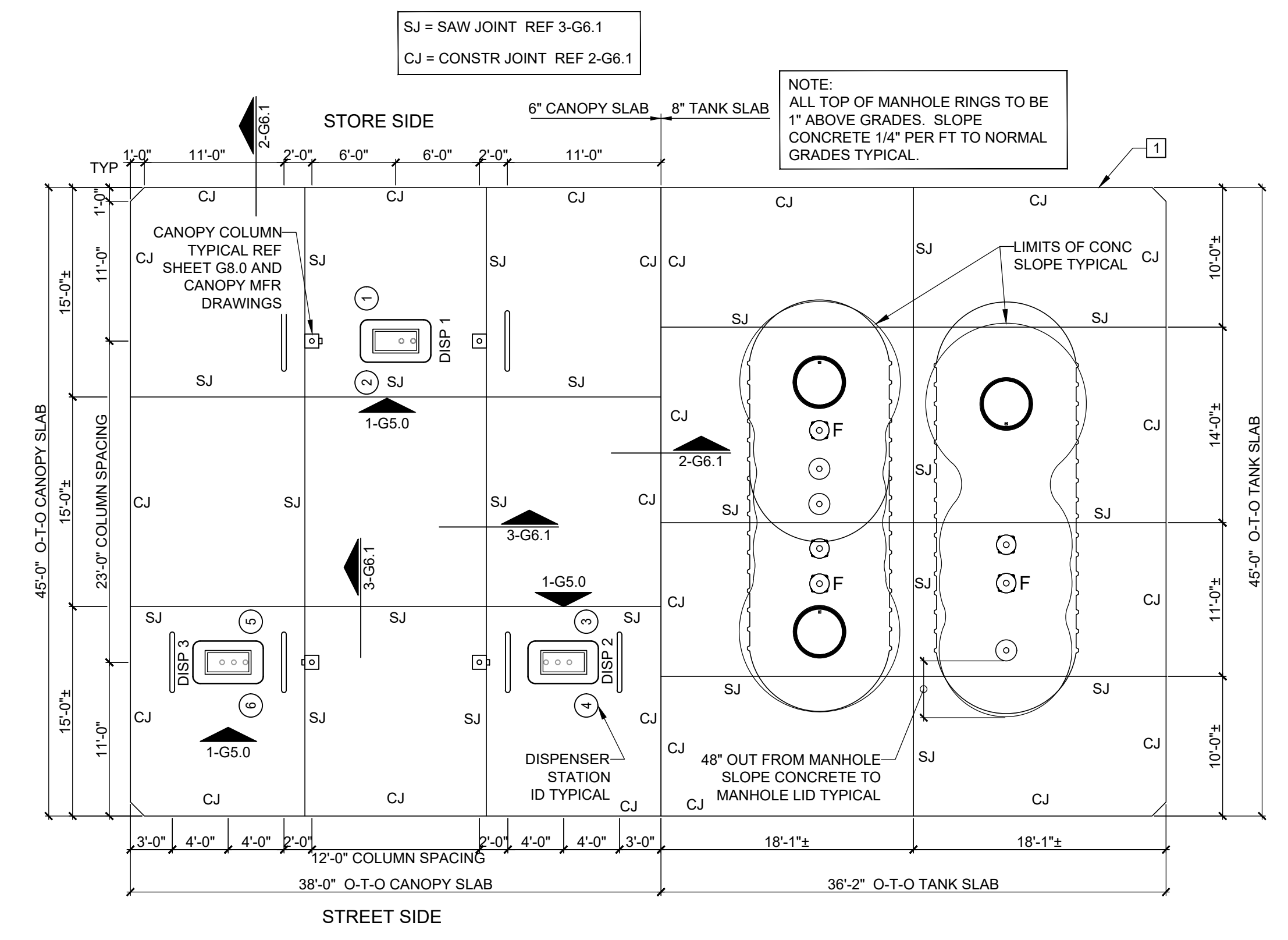
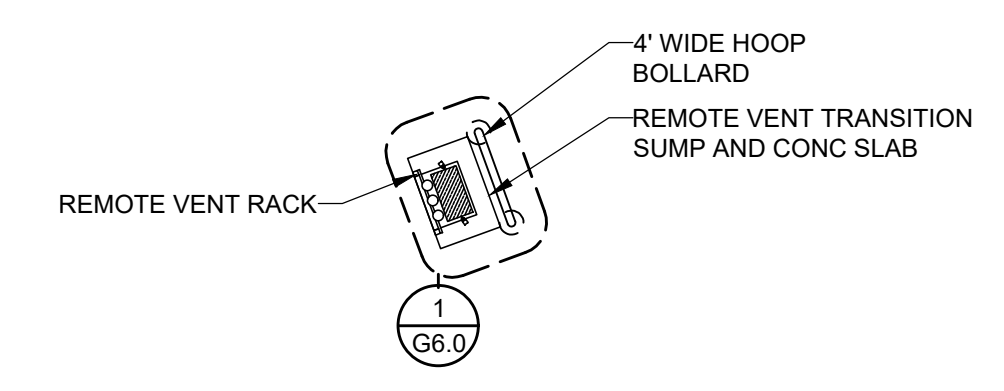
4 CONCRETE TAG AND MARKER DETAILS  
1/2"=1'-0"



3 SAW CUT DETAILS  
1/8"=1'-0"



2 JOINT DETAILS  
3/8"=1'-0"



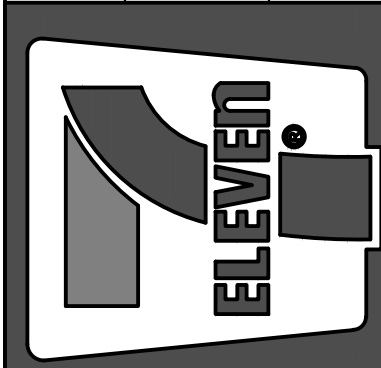
1 FUEL AREA SLAB LAYOUT AND DIMENSIONAL PLAN  
1/8"=1'-0"

KEY NOTES

- CONCRETE SLAB. REF G0.1 FOR TOS ELEVATIONS. ALL MANHOLES WITHIN THE TANK SLAB AREA TO BE RAISED 1" ABOVE THE NORMAL GRADE OF CONCRETE. SLOPE CONCRETE TO MANHOLES 1/4" PER FT. CROWN CONCRETE AS TO NOT INHIBIT WATER DRAINAGE OFF THE TANK SLAB (NO POOLING).
- GASOLINE RESISTANT JOINT SEALING COMPOUND - REF SPEC SECTION V CONCRETE / PART 2 - PRODUCTS / 2.1.9.
- UNDISTURBED SOIL OR COMPACTED BACK FILL NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (AASHTO-T-180).
- 1/2" THICK ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL.
- PLASTIC CASTLE CHAIRS PROVIDED BY SEI/SOURCE NA. REF G6.1 SHEET FOR CHAIR SIZES, TYPES AND LOCATIONS. REF G7.0 SHEET FOR QUANTITY.

Rev. #	Date	Description
Proto 12-01-2020		

7-ELEVEN, INC.  
3200 HACKBERRY ROAD, IRVING TEXAS 75063  
7-ELEVEN #38912  
3451 CROMPOND ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598  
FUELING DIMENSIONAL PLAN



CORE STATES GROUP  
44 East Main Street  
Somerville, MA 01906  
NEW YORK  
ARCHITECTURAL ENGINEERS P.C.  
CERTIFIED IN ARCHITECTURE  
No. 0313279  
CORP. REG. NO. 0313279  
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3M SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
A01	3	INTERCOM SPEAKERS / CALL SWITCH	78-8028-9195-8	06005002	3M	7-ELEVEN / SOURCE NA	GC
A02	1	6 CHANNEL INTERCOM SYSTEM	78-9236-2877-6	06005003	3M	7-ELEVEN / SOURCE NA	GC
A03	3	STAINLESS STEEL BACK ASSEMBLY	78-8028-9192-5	06005001	3M	7-ELEVEN / SOURCE NA	GC

DAYTON SUPERIOR SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
B01	640	PCC-205 2" - 2-1/4 CASTLE CHAIR (AZTEC)	121284	03124537	DAYTON SUPERIOR	7-ELEVEN / SOURCE NA	GC
B02	540	PCC-305 3" - 3-1/4 CASTLE CHAIR (AZTEC)	121285	03124538	DAYTON SUPERIOR	7-ELEVEN / SOURCE NA	GC
B03	110	PSC 5" - 5-1/4 CASTLE CHAIR (AZTEC)	127718	03124539	DAYTON SUPERIOR	7-ELEVEN / SOURCE NA	GC

DCI SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
C02	3	COMBO 38 GALLON TRASH CAN/WASH STATION BLACK, GULF	755101	03124672	DCI	7-ELEVEN / SOURCE NA	GC

FE PETRO SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
E01	-	MAG VARIABLE FREQUENCY CONTROLLER	MAG-VFC	06006133	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC
E04	3	CONTROL BOX W/ SWITCH	STP-CBS	06006137	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC
E10	-	2 HP VARIABLE SPEED SUBMERSIBLE PUMP W/ INTAKE FILTER	STPKV52-VL2	03126506	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC
E11	3	1.5 HP FIXED SPEED SUBMERSIBLE PUMP W/ INTAKE FILTER	STPK150-VL2	03126507	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC
E17	3	DISPENSER HOOK ISOLATION BOX	STP-DHI	03430256	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC

FIBRELITE/OPW SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
F19	3	40" SUBMERGED PUMP MANHOLE W/O SNOW PLOW RING	FL100BLACK-FC-KIT	03124662	FIBRELITE/OPW	7-ELEVEN / SOURCE NA	GC
F20	3	SKIRT FOR FL100	FL100-SK18	03124663	FIBRELITE/OPW	7-ELEVEN / SOURCE NA	GC

FLEXING SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
G02	3	2" MS X 2" F X 18 FIREFLEX FLEX CONNECTOR	FF20X18M346XF	03158182	FLEXING	7-ELEVEN / SOURCE NA	GC

GILBARCO SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
J08	3	GULF DISPENSER VALANCE	XXXXXX	03152475	GILBARCO	7-ELEVEN / GILBARCO	GC
J10	-	STP ISOLATION RELAY BOX	PA0287000000	00002274	GILBARCO	7-ELEVEN / GILBARCO	GC
J99	-	GULF PASSPORT SYSTEM - PX60 COMBO SERVER	XXXXXX	03152984	GILBARCO	7-ELEVEN / GILBARCO	GC
J117	1	ENCORE 700S 3+0 BLENDER NN1	XXXXXX	03153026	GILBARCO	7-ELEVEN / GILBARCO	GC
J118	2	ENCORE 700S 3+1 BLENDER+DSL NL1	XXXXXX	03153029	GILBARCO	7-ELEVEN / GILBARCO	GC
J123	1	D BOX FOR EDH/PASSPORT PA03060020	XXXXXX	03152567	GILBARCO	7-ELEVEN / GILBARCO	GC
J200	3	GULF IMAGE UPCHARGE FOR ENCORE DISPENSERS	XXXXXX	03153057	GILBARCO	7-ELEVEN / GILBARCO	GC

HANGING HARDWARE SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
K03	14	3/4" X 8" FLEXSTEEL HARDWALL HOSE	GY34X8MM	03124651	SOURCENA	7-ELEVEN / SOURCE NA	GC
K04	6	3/4" X 8" FLEXSTEEL WHIP HOSE	GY34X8MMWHIP	03124652	SOURCENA	7-ELEVEN / SOURCE NA	GC
K48	6	3/4" CONVENTIONAL NOZZLE	11BP-0400	03158382	OPW	7-ELEVEN / SOURCE NA	GC
K49	4	3/4" NOZZLE FOR DIESEL	11B-0100	03158387	OPW	7-ELEVEN / SOURCE NA	GC
K50	10	3/4" CONVENTIONAL BREAKAWAY	66REC-1000	03158383	OPW	7-ELEVEN / SOURCE NA	GC
K51	6	3/4" SPLASHGUARD FOR CONVENTIONAL NOZZLE	8BL-0400	03158389	OPW	7-ELEVEN / SOURCE NA	GC
K52	4	DIESEL SPLASHGUARD	8G-0100	03158390	OPW	7-ELEVEN / SOURCE NA	GC
K99	2	HOSE RETRACTOR FOR ENCORE (1 PER DISPENSER)	6102-EC01	03305104	OPW	7-ELEVEN / SOURCE NA	GC
K01	4	3/4" HOSE CLAMP (1-1/8" OD) - 2 PER RETRACTOR KIT	BP-1394	03305105	SVI	7-ELEVEN / SOURCE NA	GC
K119	10	CONVENTIONAL NOZZLE HOSE SWIVEL	45-5060	03126565	OPW	7-ELEVEN / SOURCE NA	GC

OPW SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
L01	500'	4" ACCESS PIPE - 250 FT BOX	AXP-40-250	03158339	OPW	7-ELEVEN / SOURCE NA	GC
L11	2	2" PRESSURE VACUUM VENTING CAP	623V-2203	06159288	OPW	7-ELEVEN / SOURCE NA	GC
L18	3	18" MANHOLE ASSY (ANNULAR AND DIESEL VENT)	104A-1800WT	06006209	OPW	7-ELEVEN / SOURCE NA	GC
L19	2	VAPOR CAP	1711T-7085-EVR	06006180	OPW	7-ELEVEN / SOURCE NA	GC
L24	3	FILL SWIVEL ADAPTER	61SALP-1020-EVR	06006214	OPW	7-ELEVEN / SOURCE NA	GC
L26	2	VAPOR RECOVERY SWIVEL ADAPTER	61VSA-1020-EVR	06006221	OPW	7-ELEVEN / SOURCE NA	GC
L27	3	TOP SEAL CAP EVR	634TT-7085-EVR	06006226	OPW	7-ELEVEN / SOURCE NA	GC
L30	3	2" BALL VALVE	21BV-0200	03158393	OPW	7-ELEVEN / SOURCE NA	GC
L35	1	TANK TAG EXTERIOR SPILL BUCKET (REGULAR UNLEADED)	1TAG-1000	06006187	OPW	7-ELEVEN / SOURCE NA	GC
L36	1	TANK TAG - INTERIOR SPILL BUCKET (REGULAR UNLEADED)	1TAG-1010	06006188	OPW	7-ELEVEN / SOURCE NA	GC
L37	1	TANK TAG EXTERIOR SPILL BUCKET (PREMIUM UNLEADED)	1TAG-3000	06006191	OPW	7-ELEVEN / SOURCE NA	GC
L38	1	TANK TAG - INTERIOR SPILL BUCKET (PREMIUM UNLEADED)	1TAG-3010	06006192	OPW	7-ELEVEN / SOURCE NA	GC
L39	2	EXTERIOR VAPOR RECOVERY TANK TAG	1TAG-7000	06006195	OPW	7-ELEVEN / SOURCE NA	GC
L40	-	CONCRETE TANK MARKER (TANK GAUGE #1)	106N-1100	06006170	OPW	7-ELEVEN / SOURCE NA	GC
L41	-	CONCRETE TANK MARKER (TANK GAUGE #2)	106N-2200	06006171	OPW	7-ELEVEN / SOURCE NA	GC
L42	1	CONCRETE TANK MARKER (REGULAR UNLEADED)	106U-0125	06006175	OPW	7-ELEVEN / SOURCE NA	GC
L43	1	CONCRETE TANK MARKER (PREMIUM UNLEADED)	106P-0150	06006174	OPW	7-ELEVEN / SOURCE NA	GC
L44	3	4x2 TEE EXTRACTOR FITTING	233-4420	03158332	OPW	7-ELEVEN / SOURCE NA	GC
L45	1	DIESEL ATMOSPHERIC VENT VALVE	23-0033	06005039	OPW	7-ELEVEN / SOURCE NA	GC
L53	1	TANK TAG - EXTERIOR SPILL BUCKET (DIESEL)	1TAG-4000	06006193	OPW	7-ELEVEN / SOURCE NA	GC
L54	1	TANK TAG - INTERIOR SPILL BUCKET (DIESEL)	1TAG-4010	06006194	OPW	7-ELEVEN / SOURCE NA	GC
L56	1	CONCRETE TANK MARKER (DIESEL)	106DL-0095	06006169	OPW	7-ELEVEN / SOURCE NA	GC
L57	3	4" DROP TUBE WITH DUAL OVERFLOW VALVE 5FT BURY - 10FT TANK	71SO-410C	03158324	OPW	7-ELEVEN / SOURCE NA	GC
L58	1	DIESEL VENT PIPE CAP	116-7085	03185354	OPW	7-ELEVEN / SOURCE NA	GC
L68	3	JACK SCREW FOR CAST BASE SPILL CONTAINER	61JSK-44CB	03158161	OPW	7-ELEVEN / SOURCE NA	GC
L72	-	CONCRETE TANK MARKER (TANK GAUGE #3)	106N-3300	06006172	OPW	7-ELEVEN / SOURCE NA	GC
L76	3	DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL)	1C-3132D-50	03124688	OPW	7-ELEVEN / SOURCE NA	GC
L77	2	DOUBLEWALL SPILL BUCKET (VAPOR)	1C-3112P	03115701	OPW	7-ELEVEN / SOURCE NA	GC
L115	3	MALE ADAPTER FITTING	SMA-1520	06006113	OPW	7-ELEVEN / SOURCE NA	GC
L124	500'	1.5" DW FLEX PIPE - 250 FT BOX	C15A-250	03158338	OPW	7-ELEVEN / SOURCE NA	GC
L129	16	1.5" OPW SWIVEL DW PIPE COUPLING	DPC-2150A	03124596	OPW	7-ELEVEN / SOURCE NA	GC
L130	5	TEST JUMPER TUBE	TCT-2509	03124576	OPW	7-ELEVEN / SOURCE NA	GC
L131	6	TERMINATION TEST JUMPER TUBE	TTT-2536	03124575	OPW	7-ELEVEN / SOURCE NA	GC
L163	3	RIGID ENTRY FITTING 4 x 1.5"	REF-4015	03124570	OPW	7-ELEVEN / SOURCE NA	GC
L194	1	DISPENSER SUMP - ENCORE (3 IN/3 OUT)	DSLFR-15-1836-2R-123567	XXXXXXX	OPW	7-ELEVEN / SOURCE NA	GC
L195	1	DISPENSER SUMP - ENCORE (3 IN/2 OUT)	DSLFR-15-1836-2R-12567	XXXXXXX	OPW	7-ELEVEN / SOURCE NA	GC
L196	-	DISPENSER SUMP - ENCORE (3 IN/0 OUT)	DSLFR-15-1836-2R-123	XXXXXXX	OPW	7-ELEVEN / SOURCE NA	GC
L197	1	DISPENSER SUMP - ENCORE (2 IN/0 OUT)	DSLFR-15-1836-2R-56	XXXXXXX	OPW	7-ELEVEN / SOURCE NA	GC

SEI EQUIPMENT SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
DX1	-	DEX FUEL CONTROLLER KIT (per quote)	XXXXXXX	03430253	SEI	7-ELEVEN / SOURCE NA	GC
DX2	-	7-ELEVEN BRAND CANOPY COLUMN FLAG (2 PER DISPENSER COLUMN)	FS2	03430247	JIMCO	7-ELEVEN / SOURCE NA	GC

PEMCO SCHEDULE							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
PM01	1	CONCRETE TANK MARKERS (#4)	031-4	06006233	PEMCO	7-ELEVEN / SOURCE NA	GC
PM02	1	CONCRETE TANK MARKERS (#5)	031-5	06006234	PEMCO	7-ELEVEN / SOURCE NA	GC
PM03	1	CONCRETE TANK MARKERS (#6)	031-6	06006235	PEMCO	7-ELEVEN / SOURCE NA	GC

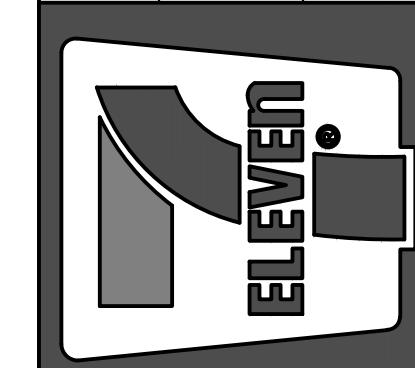
Rev. #	Date	Description

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7-ELEVEN, INC.  
3200 HACKBERRY ROAD, IRVING TEXAS 75063

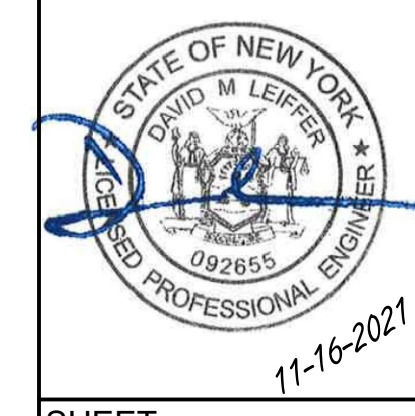
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3451 CROMPOUND ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598

EQUIPMENT SCHEDULES



Job#: SEI-32507  
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SHEET: G7.0  
FUELING - USA

**LIGHT FIXTURE SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
M22	12	CREE LED UNDER CANOPY LIGHTING	CPY250-B-DM-F-13L-UL-WH-57K-HZ	XXXXXXX	CREE	7-ELEVEN / GRAYBAR	GC

**MASTER LOCK SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
N01	2	SERIES 175 TUMBLER LOCK	175	03185351	MASTER LOCK	7-ELEVEN / SOURCE NA	GC

**MAY ADVERTISING SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
P01	3	DISPENSER PUMP TOPPER	CT-XL	03158215	MAY ADVERTISING	7-ELEVEN / SOURCE NA	GC
P13	1	THREE PRODUCT PUMP TOPPER PRICE SIGN (NY ST)	PTH-1025-3XW-WIN-711-NYST	03305115	EMPRO	7-ELEVEN / SOURCE NA	GC
P14	2	FOUR PRODUCT PUMP TOPPER PRICE SIGN (NY ST)	PTH-1025-4XW-WIN-711-NYST	03305116	EMPRO	7-ELEVEN / SOURCE NA	GC

**PIPE RISER SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
Q01	1	7" THIN WALL PIPE RISER	484RISER	03185353	GENERAL PIPE MANUF.	7-ELEVEN / SOURCE NA	GC

**POWER INTEGRITY SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
R01	1	E-STOP SWITCH RED INCLUDES RED COVER WITH TWIST	IA-ESOCA/T/RD	03158209	POWER INTEGRITY	7-ELEVEN / SOURCE NA	GC
R02	1	DISPENSER DATA / LOW VOLTAGE DISCONNECT	DDS-A8D4E	03430255	POWER INTEGRITY	7-ELEVEN / SOURCE NA	GC
R04	1	E-STOP (CASHIER CONTROL STATION WITH PROTECTIVE SHROUD)	IA-ESORS	XXXXXXX	POWER INTEGRITY	7-ELEVEN / SOURCE NA	GC

**S. BRAVO SYSTEM SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
S01	6	3/4" ROB ROY FITTING	F-17-RR-7-11	03115710	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	GC
S03	1	VAPOR VENT RACK	RS500JP-3S	03158039	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	GC
S05	1	FIBERGLASS VAPOR VENT REMOTE SUMP	B900JPF-3SB	03158049	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	GC

**SMITH FIBERCAST VAPOR / VENT PIPING SCHEDULE**

ITEM NO.	LGTH	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
T01	25'	4" SECONDARY PIPING (USE 25 FT LENGTHS)	011040-069-2	06006331	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T03	375'	2" PRIMARY PIPING (USE 25 FT LENGTHS)	011020-069-2	06006328	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC

**SMITH FIBERCAST SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
T08	9	2" PRIMARY SLEEVE COUPLING	012020-101-8	06006255	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T13	14	2" PRIMARY 90 ELBOW	012020-360-4	06006261	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T16	6	2" BELL X M	012020-191-4	06006256	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T24	-	2" PRIMARY TEE	012020-410-4	06006262	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T28	-	2" 45 PRIMARY ELBOW	012020-310-4	06006260	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T29	31	DS-8069 9.03 ADHESIVE KIT	022990-033-9	06006288	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T31	4	4" BELL X MALE	012040-191-4	06006278	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC
T32	3	2" BONDED FITTING (SINGLE WALL)	012020-622-0	03158380	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	GC

**FIRE EXTINGUISHER**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
U01	2	PORTABLE FIRE EXTINGUISHER	3020	03158046	POTTER ROEMER	7-ELEVEN / SOURCE NA	GC
U02	2	FIRE EXTINGUISHER CABINET	105-20-RR-C-H	03185372	CATO	7-ELEVEN / SOURCE NA	GC

**TYPAR FILTER FABRIC SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
V01	4	FILTER FABRIC 12- 1/2" X 300'	TYPAR-3401	06006313	TYPAR	7-ELEVEN / SOURCE NA	GC

**U BOLT SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
W01	8	U-BOLT ENCORE	M007038002	03185374	MISCELLANEOUS PARTS	7-ELEVEN / SOURCE NA	GC

**UNITED SIGN SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
X01	1	EMERGENCY SHUT OFF SWITCH SIGN	U-MS-76	06005037	UNITED SIGN	7-ELEVEN / SOURCE NA	GC

**VAPORLESS MANUFACTURING SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
Y01	3	MECHANICAL LINE LEAK DETECTOR	99LD-2000-S	06006314	VAPORLESS MANUFACTURING	7-ELEVEN / SOURCE NA	GC

**VEEDER ROOT SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
Z02	2	8 INPUT TANK SENSOR MODULE	329358-001-SPARE	06005049	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z05	6	LIQUID SUMP SENSOR	794380-208	06005066	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z06	5	4" ANNULAR / PROBE CAP	330020-282	06005053	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z18	1	4 INPUT TANK PROBE MODULE	329358-002-SPARE	06005047	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z08	-	7-11 ISP KIT	330020-409	06005054	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z09	-	DISPENSER INTERFACE MODULE (TIDEL)	330280-801	06005059	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z10	-	ETHERNET TCP/IP COMMUNICATION MODULE	330020-425	03158077	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z13	-	TLS 350R W/PRINTER BUSINESS	848290-122	06005075	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z14	2	10 FT. INTERSTITIAL TANK SENSOR	794390-409	03158249	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z16	1	4" FLOAT KIT FOR DIESEL	846400-001	03158176	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z75	-	RS232 INTERFACE (DUAL PORT MODULE) MAINTENANCE TRACKER	330586-017-SPARE	03430170	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z52	1	FOUR-RELAY OUTPUT INTERFACE MODULE	329359-001-SPARE	06005051	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z37	-	FOUR INPUT PUMP SENSE MODULE	329999-001	06005158	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z87	-	DISPENSER INTERFACE MODULE G-SITE	330280-401-SPARE	03158201	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z42	1	G-SITE INSTALL KIT	331063-100	03158202	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z55	2	PHASE II FLOAT KIT (GAS)	886100-000	03305136	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z56	-	NV MEM203 REPORT STORAGE	333760-203	03185346	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z58	3	10" 6" ATG PROBE	846390-110	03185574	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC

**WAUSAU SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
AA5	-	SINGLE WASTE CONTAINER W/ LID (CANOPY AREA)	TF1891	3175253	WAUSAU	7-ELEVEN / TURNKEY	GC

**XERXES SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
AB36	1	XERXES TANK 10" DIA. (15K)	648-637-00	03156203	XERXES	7-ELEVEN / XERXES	GC
AB41	1	XERXES TANK 10" DIA. (15K) SPLIT 7K/8K	650-736-00	03156207	XERXES	7-ELEVEN / XERXES	GC

**SIGNAGE SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
AJ1	6	4" X 5" EMERGENCY SHUT OFF SIGN (OUTSIDE)	NG-2402	XXXXXXX	PERFORMANCE INK	GC	GC
AJ2	1	4" X 4" PUMP NUMBERS 1-6 - WHITE NUMBERS/BLACK BACKGROUND	1-6 NG-28	XXXXXXX	PERFORMANCE INK	GC	GC
AJ5	4	3.5" X 3.25" ULTRA LOW SULFUR HIGHWAY DECAL	XXXXXXX	XXXXXXX	PERFORMANCE INK	GC	GC
AJ6	6	2.76" X 4.75" CONTAINS 10% ETHANOL DECAL	NG-80R	XXXXXXX	PERFORMANCE INK	GC	GC
AJ7	6	2.75" X 2.75" GAS PUMPS ARE VIDEO MONITORED DECAL	NG41	XXXXXXX	PERFORMANCE INK	GC	GC
AJ8	3	20" X 6.5" WARNING - NO SMOKING	NG193	XXXXXXX	PERFORMANCE INK	GC	GC
AJ9	-	4" X 4" PUMP NUMBERS 7-12 - WHITE NUMBERS/BLACK BACKGROUND	NG-NG-24SEI	XXXXXXX	PERFORMANCE INK	GC	GC
AJ10	4	4"X24" ALUMINUM FIRE EXTINGUISHER SIGN	NG-97SEI	XXXXXXX	PERFORMANCE INK	GC	GC
AJ11	-	8"X12" ALUMINUM OVERFILL SIGN	NG-97SEI	XXXXXXX	NATIONAL GAS	7-ELEVEN	GC
AJ12	6	OUTDOOR LITERATURE HOLDER (2 PER DISP)	XXXXXXX	03304838	HICORP	7-ELEVEN	GC
AJ13	-	4"X 4" PUMP NUMBERS 13-18	NG-25SEI	XXXXXXX	PERFORMANCE INK	GC	GC

**UNIVERSAL VALVE COMPANY SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
H01	7	4' X 72" U-SHAPED BUMPER	1983-404972-7E	03430180	UNIVERSAL VALVE	7-ELEVEN / SOURCE NA	GC
AK1	3	COMPLETE 3'x5'x9" STAINLESS STEEL ISLAND FORM	2CK-35-SS	03126522	UNIVERSAL VALVE	7-ELEVEN / SOURCE NA	GC
AK2	-	COMPLETE 3x7'x9" STAINLESS STEEL ISLAND FORM	2CK-37-SS	XXXXXXX	UNIVERSAL VALVE	7-ELEVEN / SOURCE NA	GC

**TRANS-SORB SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
TS1	6	DESICCANT BAG WITH HANGER (2 PER SUMP)	XXXXXXX	03430194	TRANS-SORB	7-ELEVEN / SOURCE NA	GC

**GENERAL DATATECH SCHEDULE**

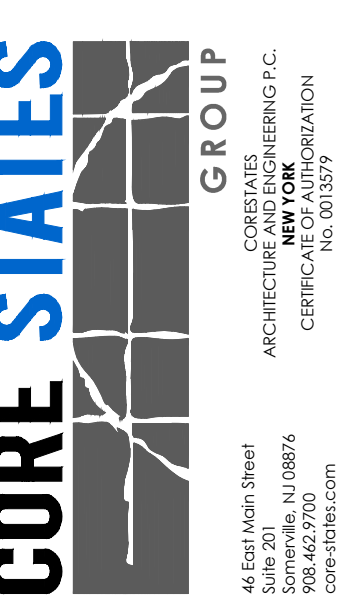
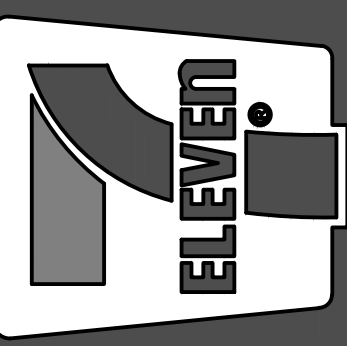
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
GD1	-	MERAKI MS120-8 1G L2 CLOUD MANAGED 8x GIGE SWITCH	XXXXXXX	07999800	GENERAL DATATECH	7-ELEVEN / SOURCE NA	GC
GD2	-	MERAKI MS120-8 ENTERPRISE LICENSE & SUPPORT	XXXXXXX	07999801	GENERAL DATATECH	7-ELEVEN / SOURCE NA	GC

**WINDY CITY WIRE SCHEDULE**

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
WC1	800'	GILBARCO DISPENSER COMMUNICATION CABLE (CAT6)	WCW7931AFEQ	03430209	WINDY CITY WIRE	7-ELEVEN / SOURCE NA	GC

Rev. #	Date	Description
12-01-2020		

7-ELEVEN, INC.  
 3200 HACKBERRY ROAD, IRVING TEXAS 75063  
 7-ELEVEN #38912  
 3451 CROMPOD ROAD  
 YORKTOWN HEIGHTS, NEW YORK 10598  
 EQUIPMENT SCHEDULE



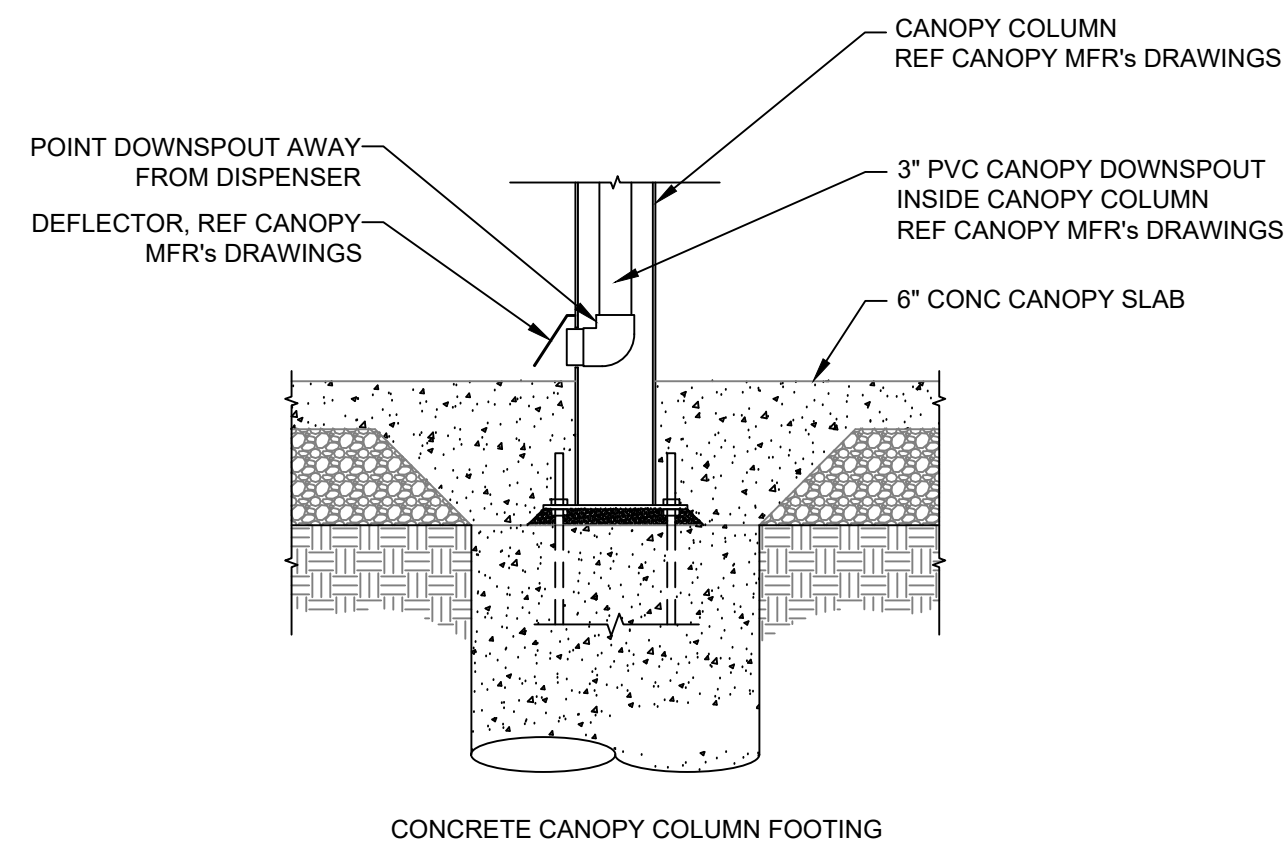
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 Scale: AS NOTED  
 Date: 08/24/21  
 Drawn By: GJD  
 Checked By: CGC

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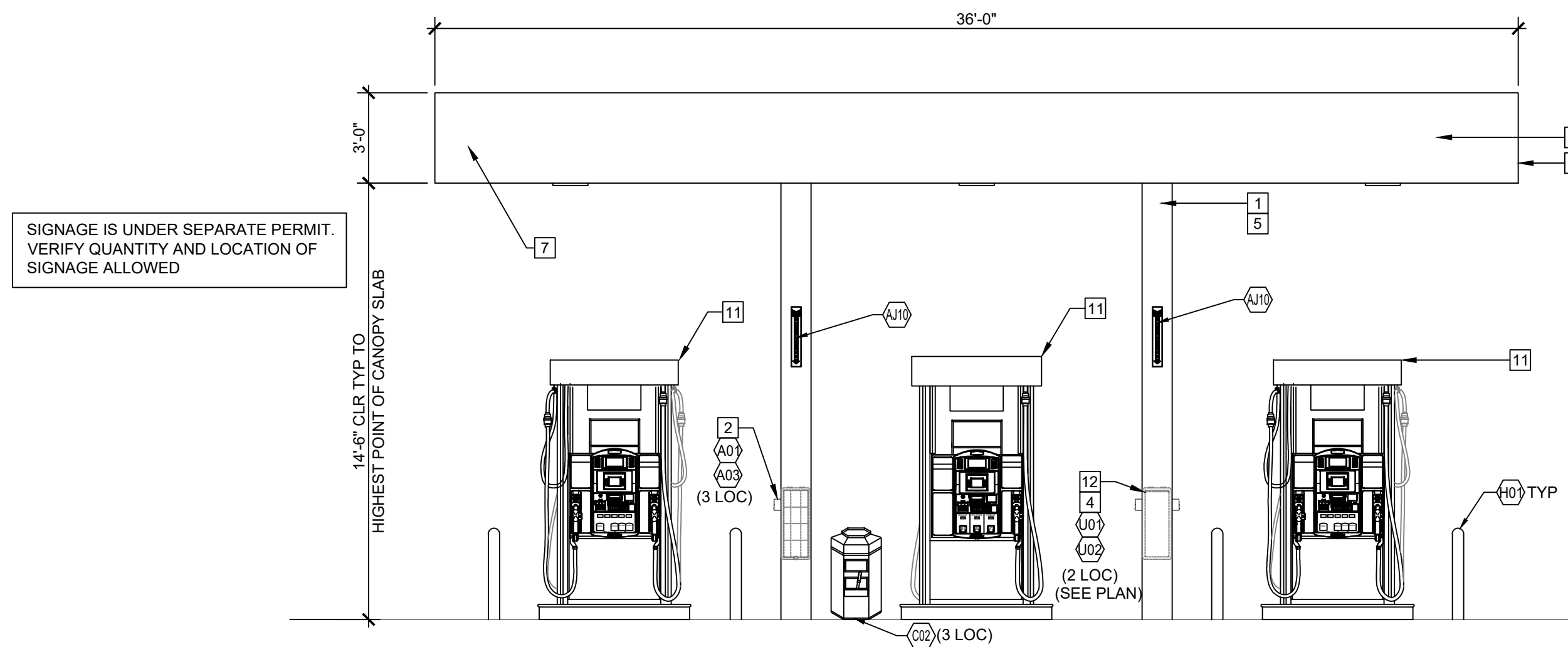


11-16-2021

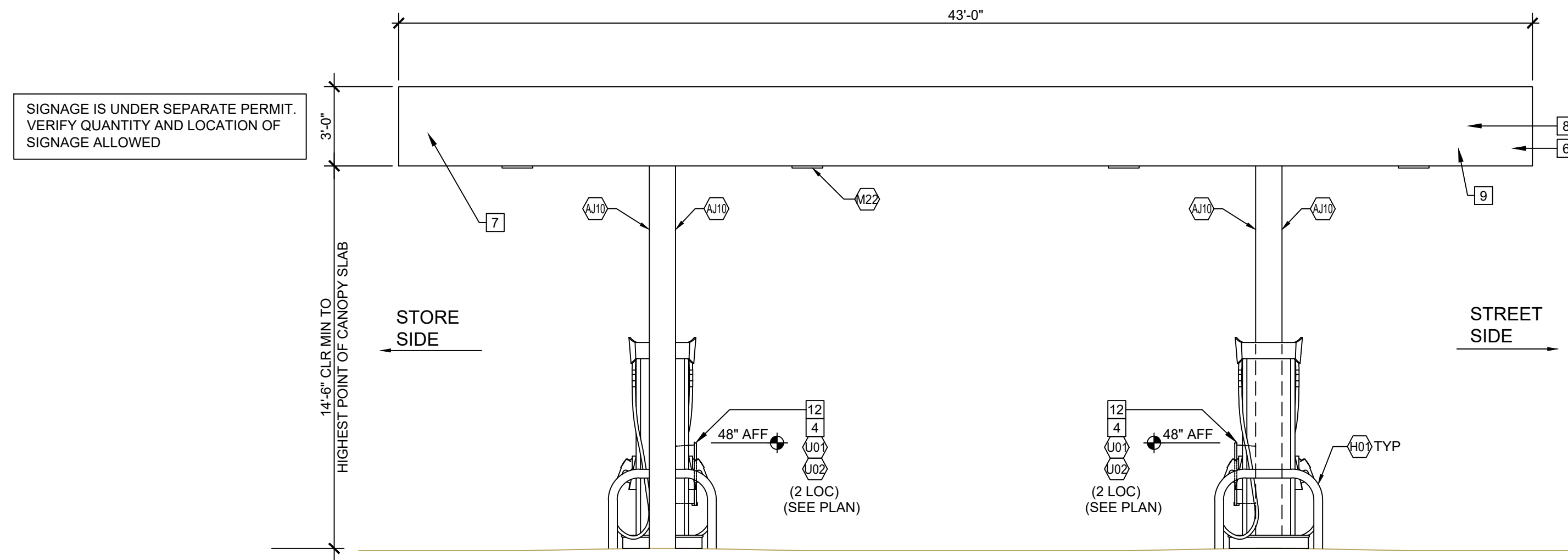
SHEET:  
**G7.1**  
 FUELING - USA



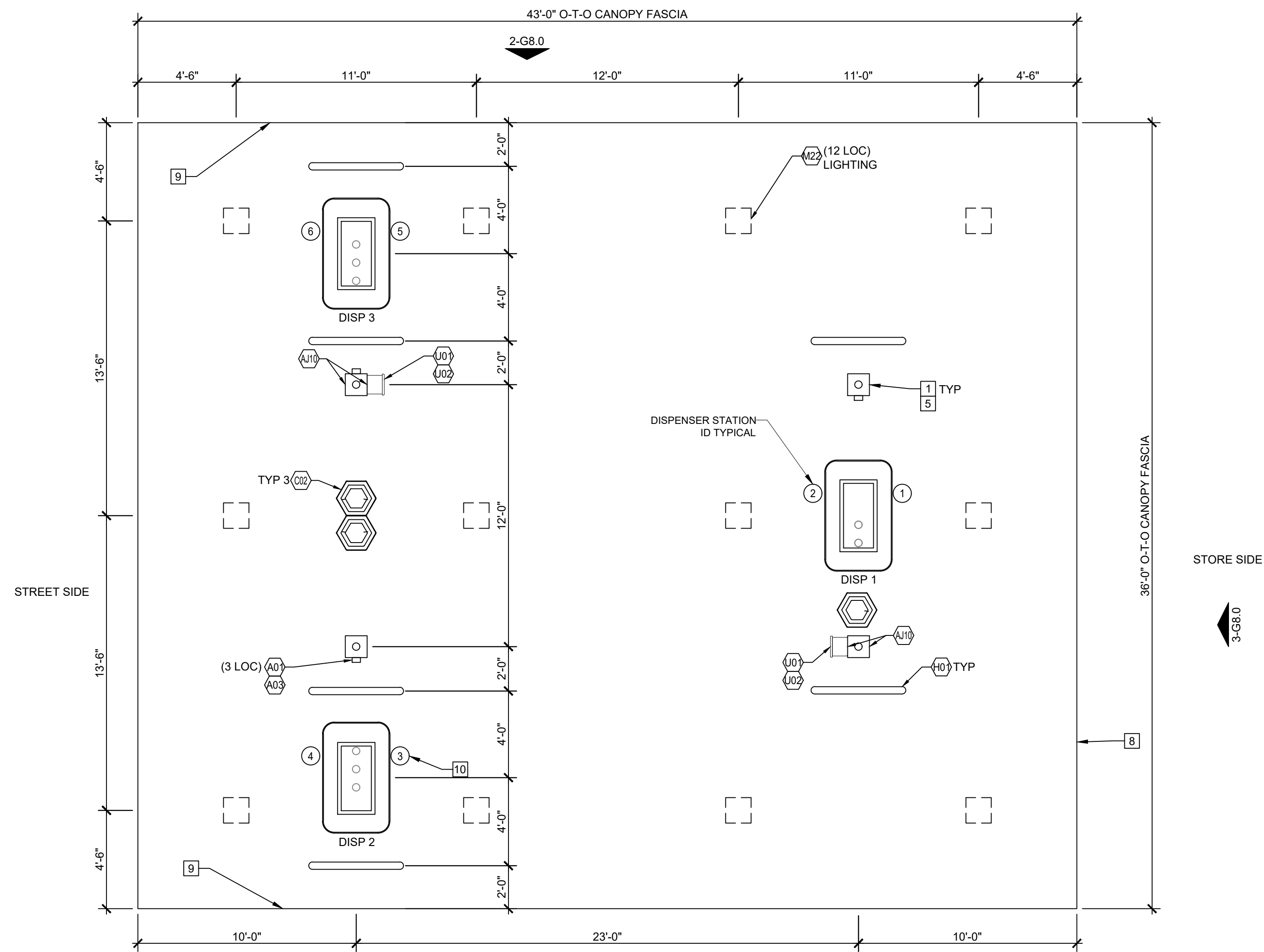
4 CANOPY DRAIN DETAIL  
1/2" = 1'-0"



3 CANOPY END ELEVATION  
1/4" = 1'-0"



2 CANOPY SIDE ELEVATION  
1/4" = 1'-0"



1 FUELING CANOPY PLAN  
1/4" = 1'-0"

GENERAL NOTES

- GRADES AROUND DISPENSERS AND CANOPY TO BE SHOT TO PREVENT PONDING AROUND THE DISPENSERS. CONTRACTOR TO REMOVE AND REPAIR PAVEMENT IF PONDING OCCURS.
- NO CONDUITS OR DOWNSPOUTS ON EXTERIOR OF CANOPY COLUMNS.
- REFER TO GRADING PLAN FOR FINAL ELEVATIONS.

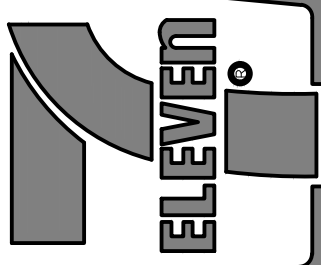
KEY NOTES

- CANOPY COLUMN - PAINT PER GULF SPECIFICATIONS.
- INTERROOM CALL BOX. MECHANICALLY FASTENED TO COLUMN. MOUNT AT 48" MAX. ABOVE SLAB TO BUTTON.
- NOT USED
- FIRE EXTINGUISHER - ADA MOUNTING HEIGHT TO BE MAX. 48" FROM GRADE TO FIRE EXTINGUISHER
- DOWNSPOUT FROM CANOPY (INSIDE THE COLUMN) TO TIE INTO STORM DRAIN WHEN AVAILABLE AND TO DRAIN OUT OF COLUMN PARALLEL TO AND AWAY FROM DISPENSER IN ALL OTHER CASES
- OVERFLOW PROTECTION AS REQUIRED. SEE CANOPY DRAWINGS AND SPECIFICATIONS.
- GASOLINE CANOPY. SEE MANUFACTURER'S DRAWINGS AND SPECIFICATIONS FOR DETAILS OF CONSTRUCTION.
- ACM CANOPY FASCIA.
- LOGO SIGNS UNDER SEPARATE PERMIT. VERIFY QUANTITY AND LOCATION OF SIGNS ALLOWED.
- FUELING POSITION NUMBER.
- REF 1-G5.0 FOR DISPENSER TYPE
- FIRE EXTINGUISHER CABINET MOUNTED ON SIDE OF COLUMN REF PLAN FOR LOCATION
- REF G7.0 FOR EQUIPMENT TAG (XXX) DESCRIPTION

Rev. # Date Description

Proto 12-01-2020

7-ELEVEN, INC.  
3200 HACKBERRY ROAD, IRVING TEXAS 75063  
7-ELEVEN #38912  
3451 CROMPOUND ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598  
FUELING CANOPY LAYOUT -  
3 STACK



CORE STATES GROUP  
44 East Main Street  
Somerville, NJ 08876  
NEW YORK  
ARCHITECTURAL ENGINEERING P.C.  
CERTIFIED BY THE BOARD OF ARCHITECTS  
No. 003327

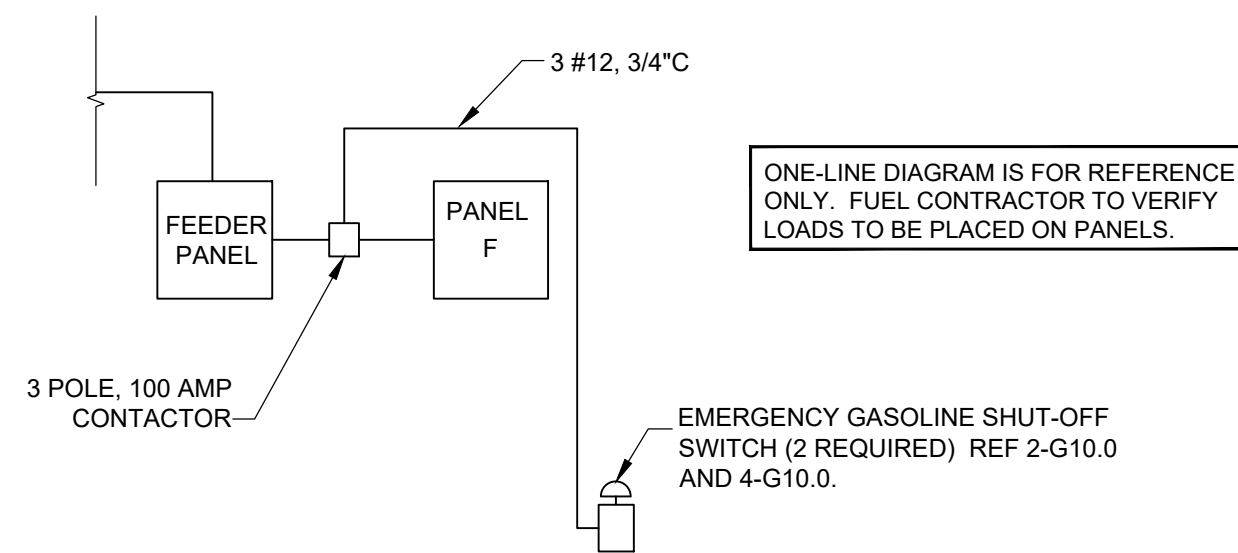
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Scale: AS NOTED  
Date: 08/24/21  
Drawn By: CGC  
Checked By: CVK

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11-16-2021  
SHEET:  
G8.0  
FUELING - USA





- NOTE:
- GENERAL CONTRACTOR TO INSTALL PANELS CIRCUIT BREAKERS AND CONDUIT.
  - FUEL CONTRACTOR SHALL INSTALL WIRING (FROM CIRCUIT BREAKERS TO EQUIPMENT), RELAYS, ETC. MAKE ALL CONNECTIONS AND COMPLETE SEAL OFF.

### 3 PARTIAL ELECTRICAL ONE-LINE DIAGRAM

1/8"=1'-0"

NEW PANELBOARD													
SERVES: TENANT SPACE													
LOCATION: STOCKROOM													
MOUNTING: SURFACE													
CK	LOAD SERVED	WIRE	BRKR	PL	PHASE C		PHASE A		PL	BRKR	WIRE	LOAD SERVED	CK
1	DISPENSER #1	12	20	1	1.08	1.08			1	20	12	DISPENSER #2	2
3	SWITCHED NEUTRAL	---	---	---			0.00	0.00	---	---	---	SWITCHED NEUTRAL	4
5	DISPENSER #3	12	20	1	1.08	0.00			1	20	---	SPARE	6
7	SWITCHED NEUTRAL	---	---	---			0.00	0.00	1	20	---	SPARE	8
9	SPARE	---	20	1	0.00	0.00			1	20	---	SPARE	10
11	SPARE	---	20	1			0.00	0.00	1	20	---	SPARE	12
13	SPARE	---	20	1	0.00	0.00			1	20	---	SPARE	14
15	SPARE	---	20	1			0.00	0.00	1	20	---	SPARE	16
17	RUL STP	12	20	2	1.09	1.09			2	20	12	PUL STP	18
19	---	---	---	---			1.09	1.09	---	---	---	---	20
21	D-BOX CONTROLLER	12	20	1	0.11	1.09			2	20	12	DSL STP	22
23	SPACE	---	---	---			0.00	1.09	---	---	---	---	24
25	SPACE	---	---	---	0.00	0.00			---	---	---	---	26
27	LOW VOLTAGE DISC	12	20	1			0.36	0.72	1	20	12	HOOK ISOLATION BOX	28
29	SPACE	---	---	---	0.00	0.00			1	20	12	SPACE	30
TOTAL		6.62				4.35				KVA			
TOTAL LOAD		10.97				36.25				AMPS			
FEEDER LOAD		10.97				52.74				AMPS			
PER NEC ARTICLE 220													

COORDINATE RECONFIGURATION OF EXISTING FUELING PANEL AND FUELING AREA CIRCUIT LOAD INFORMATION WITH ALL EXISTING PANELS. DISCONNECT ALL NON-FUELING CIRCUITS IN EXISTING FUEL PANEL AND RECONNECT TO OTHER AVAILABLE PANELS IF POSSIBLE.

COORDINATE PANEL F AND FUELING AREA CIRCUIT LOAD INFORMATION WITH FUEL CONTRACTOR. FUEL CONTRACTOR TO SUPPLY AND INSTALL NEW PANELS AND VERIFY ELECTRIC PANEL CAN MEET LOAD REQUIREMENTS.

FUELING CONTRACTOR TO SUPPLY AND INSTALL BREAKERS AS REQUIRED AND VERIFY EXISTING ELECTRICAL PANELS CAN MEET LOAD REQUIREMENTS. ALL NEW BREAKERS SHALL BE OF THE SAME MAKE, MODEL AND AIC RATING AS EXISTING.

FUEL GC TO PROVIDE SINGLE PHASE POWER TO THE MAG-VFC. THREE PHASE POWER TO RUN FROM MAG-VFC TO 2 HP VARIABLE SPEED STPS.

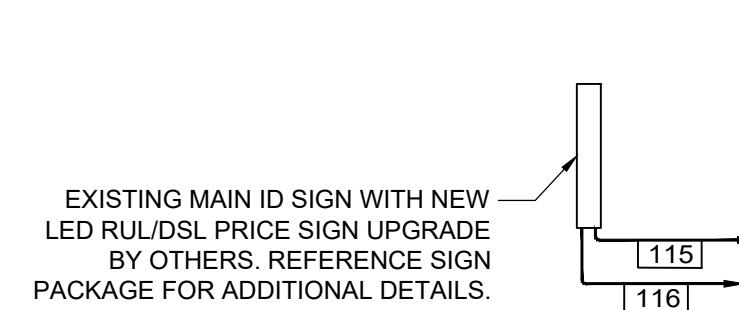
NOTE:  
NEW PANEL 'F' TO MATCH MANUFACTURER AND AIC RATING OF EXISTING PANELS. ALL OVERCURRENT DEVICES INSTALLED SHALL MATCH THE MAKE, MODEL, AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.

CONTRACTOR TO REMOVE EXISTING DISPENSERS, STPS AND D-BOX FROM EXISTING PANELS, AND PROVIDE A NEW 60A BREAKER TO FEED PANEL 'F'.

PANEL 'F' IS BEING ADDED TO MEET 7-ELEVEN STANDARDS FOR EMERGENCY STOP PROTOCOL. ALL EQUIPMENT IS BEING REPLACED LIKE FOR LIKE. NO NEW LOAD IS BEING ADDED TO THE SERVICE.

CONDUIT SCHEDULE					
NAME	DESCRIPTION	CONDUIT SIZE	QTY	WIRE SIZE / MFR #	WIRE QTY
101	DISPENSER POWER - NON DIESEL**	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***
102	DISPENSER SUMP SENSOR	3/4"	3	BELDEN #88760	1
103	DISPENSER DATA *	3/4"	3	2-WIRE TWISTED PAIR CAT6 FEP/FEP (WCW7931AFEQ)	2 PAIR 1
104	NOT USED	-	-	-	-
105	RUL TANK ATG/SUMP, INTERSTITIAL, FILL SENSORS	3/4"	1	BELDEN #88760	4 #88760
106	FUL/DSL TANK ATG/SUMP, INTERSTITIAL, FILL SENSORS	3/4"	1	BELDEN #88760	7 #88760
107	FILL BUCKET SENSORS	3/4"	3	BELDEN #88760	1
108	STP SUMP SENSOR/ATG PROBE	3/4"	3	BELDEN #88760	2
109	INTERCOM	1"	1	BELDEN 8762	2 PAIR PER CALL BOX
110	DISPENSER POWER - DIESEL**	3/4"	2	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***
111	1.5HP STP POWER**	3/4"	3	#12 THWN-2	2#12 HOTS, 1#12 GR
112	NOT USED	-	-	-	-
113	CANOPY LIGHTING POWER**	3/4"	2	#10 THWN-2	1#10 HOT, 1#10 NEUT, 1#10 GR
114	CANOPY SIGN POWER**	3/4"	1	#10 THWN-2	1#10 HOT, 1#10 NEUT, 1#10 GR
115	MAIN ID SIGN POWER**	3/4"	1	PULL STRING	PULL STRING
116	MAIN ID SIGN DATA	3/4"	1	PULL STRING	PULL STRING

- \* REFERENCE GILBARCO FIELD WIRING DIAGRAM FOR COMPLETE SPECIFICATIONS  
 \*\* CONTRACTOR TO UPSIZE CONDUCTORS FOR VOLTAGE DROPS AS REQUIRED  
 \*\*\* REFERENCE SHEET G11.0 FOR DISPENSER HOOK ISOLATION WIRING DIAGRAM. RUN ISOLATION WIRING AS REQUIRED WITHIN DISPENSER POWER CONDUITS.



FUELING CONTRACTOR: EXTEND CONDUITS AS REQUIRED TO NEW DISPENSERS AND NEW FUEL TANKS. TIE TO EXISTING WHERE IT IS POSSIBLE. NEW CONDUITS AS REQUIRED. SEE SPECIFICATION SHEET G16.0, SECTION VII, 2.3.1 FOR CONDUIT TYPES.

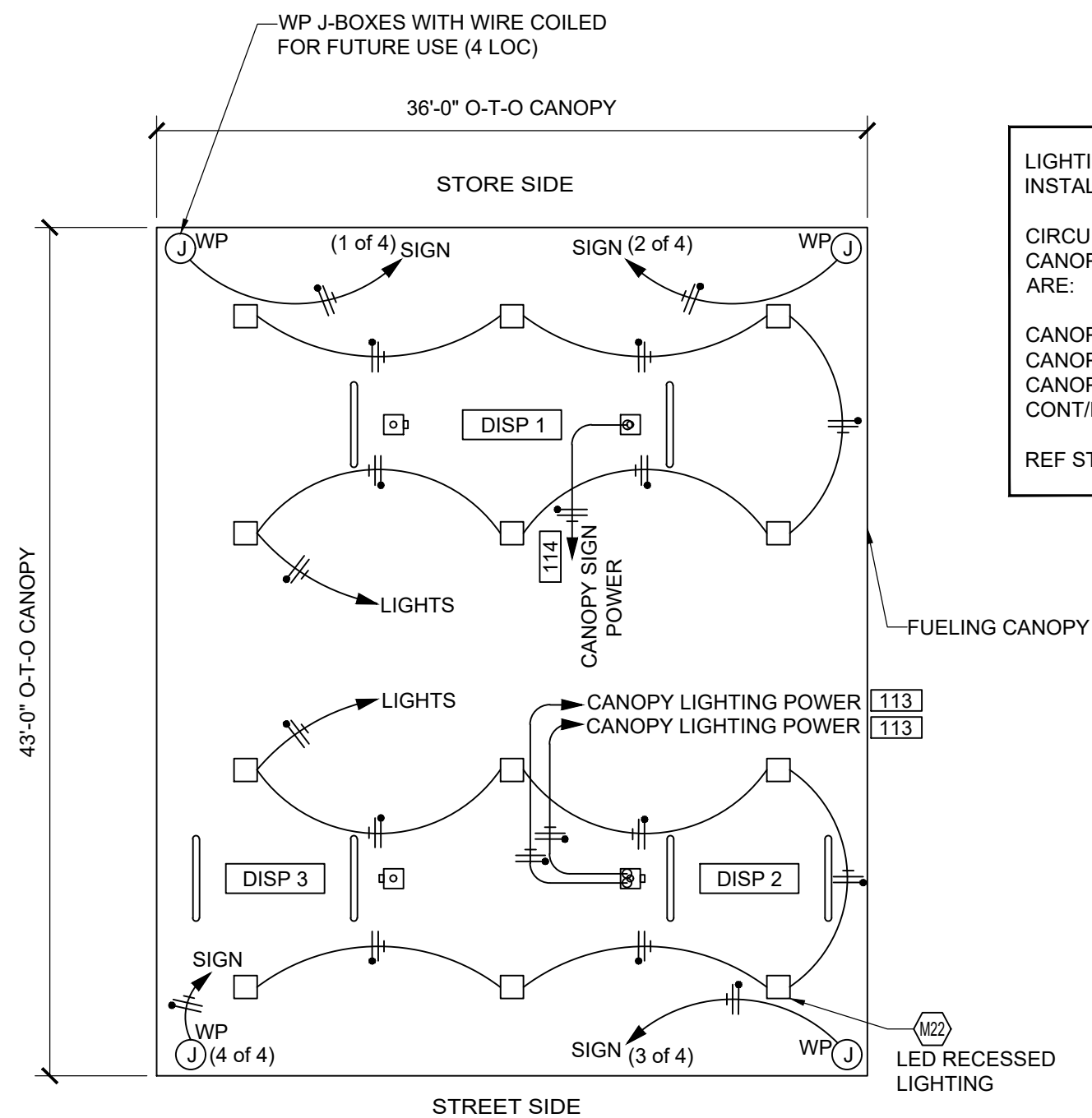
NOTE: PVC CONDUIT (WHERE ALLOWED BY AHJ), MAY BE USED. SEE SPECIFICATION SHEET G16.0, SECTION 2.3.1 FOR LOCATIONS WHERE PVC CONDUIT MAY BE USED.

NOTE: PULL ALL NEW WIRES AND PULL STRINGS AS REQUIRED.

NOTE: ROUTE ALL CONDUITS UNDERGROUND TO C-STORE ELEC ROOM. DATA/COM CABLE EXCESS TO BE COILED IN ELEC RM FOR ROUTING ABOVE CEILING IN C-STORE TO FINAL TERMINATION POINT.

NOTE: THE NEW DISPENSER AND SUMP CONDUIT INTO EXISTING ELECTRICAL ROOM AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.

FOR STP POWER CONDUITS, USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" WHERE BRAVO FITTINGS ARE USED AND NO PVC CONDUIT IS PERMITTED. ROUTE CONDUITS IN SEPARATE RACEWAY.



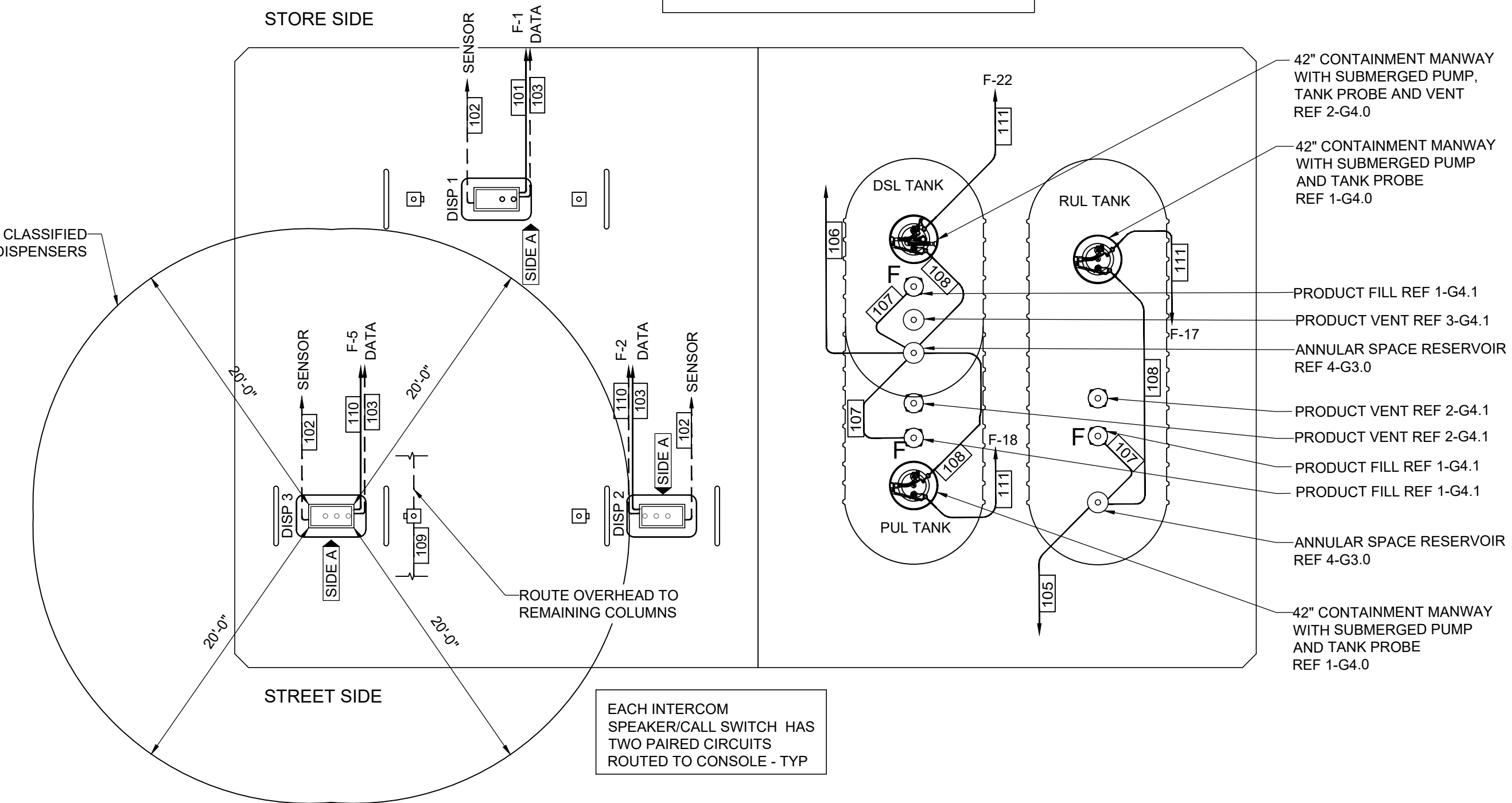
LIGHTING SUPPLIED BY 7-ELEVEN, INC AND INSTALLED BY FUEL CONTRACTOR.

CIRCUITS REQUIRED FOR THE FUELING AREA / CANOPY LIGHTING AND MISCELLANEOUS EQUIPMENT ARE:

CANOPY LIGHTS	546 VA	20 A BREAKER
CANOPY LIGHTS	546 VA	20 A BREAKER
CANOPY SIGNS	300 VA	20 A BREAKER
CANOPY EMERG SHUTOFF	40 VA	20 A BREAKER

REF STORE MEP PANEL SCHEDULES FOR LOCATION

EXTENTS OF N.E.C. CLASSIFIED AREA TYPICAL ALL DISPENSERS



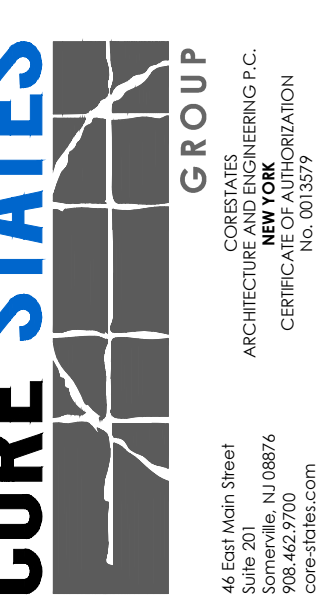
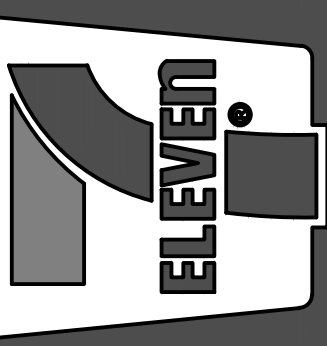
EACH INTERCOM SPEAKER/CALL SWITCH HAS TWO PAIRED CIRCUITS ROUTED TO CONSOLE - TYP

### 2 CANOPY CONDUIT SCHEMATIC

1/8"=1'-0"

### 1 UNDERGROUND CONDUIT SCHEMATIC

1/8"=1'-0"



Job#: SEI-32507  
 Scale: AS NOTED  
 Date: 08/24/21  
 Drawn By: GJD  
 Checked By: CGC

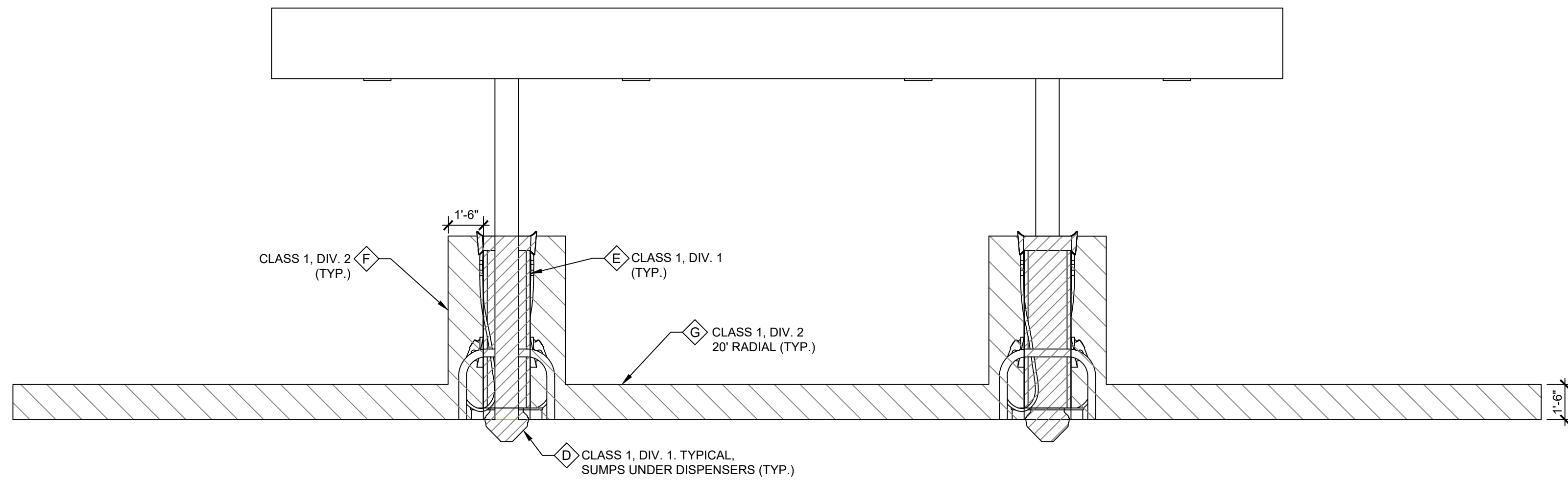
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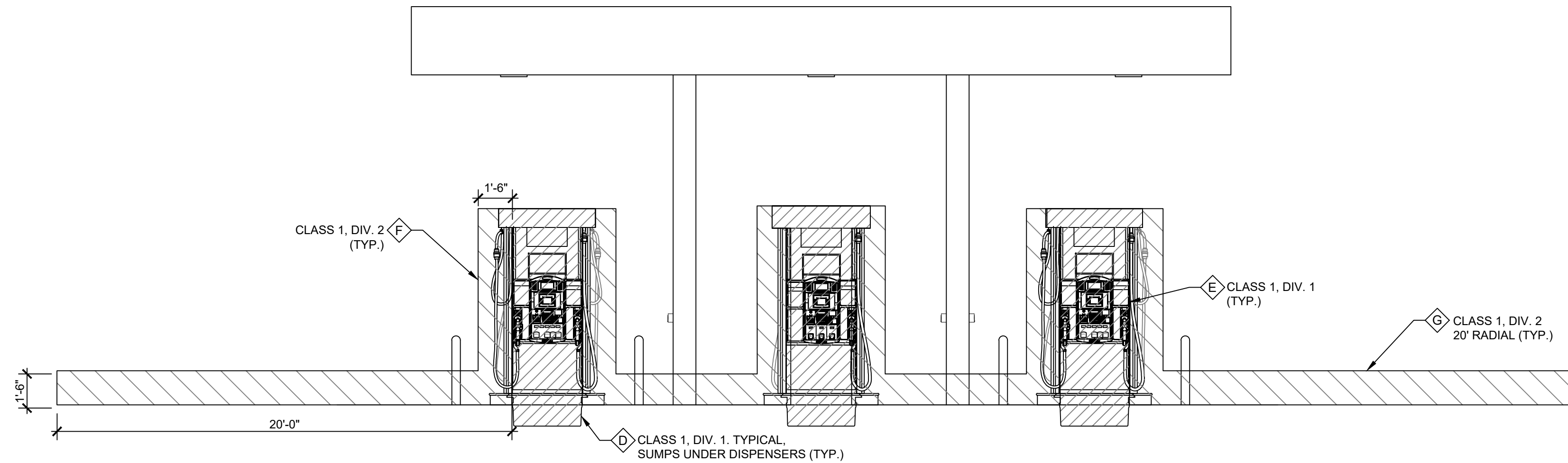


N.E.C. HAZARDOUS AREA NOTES

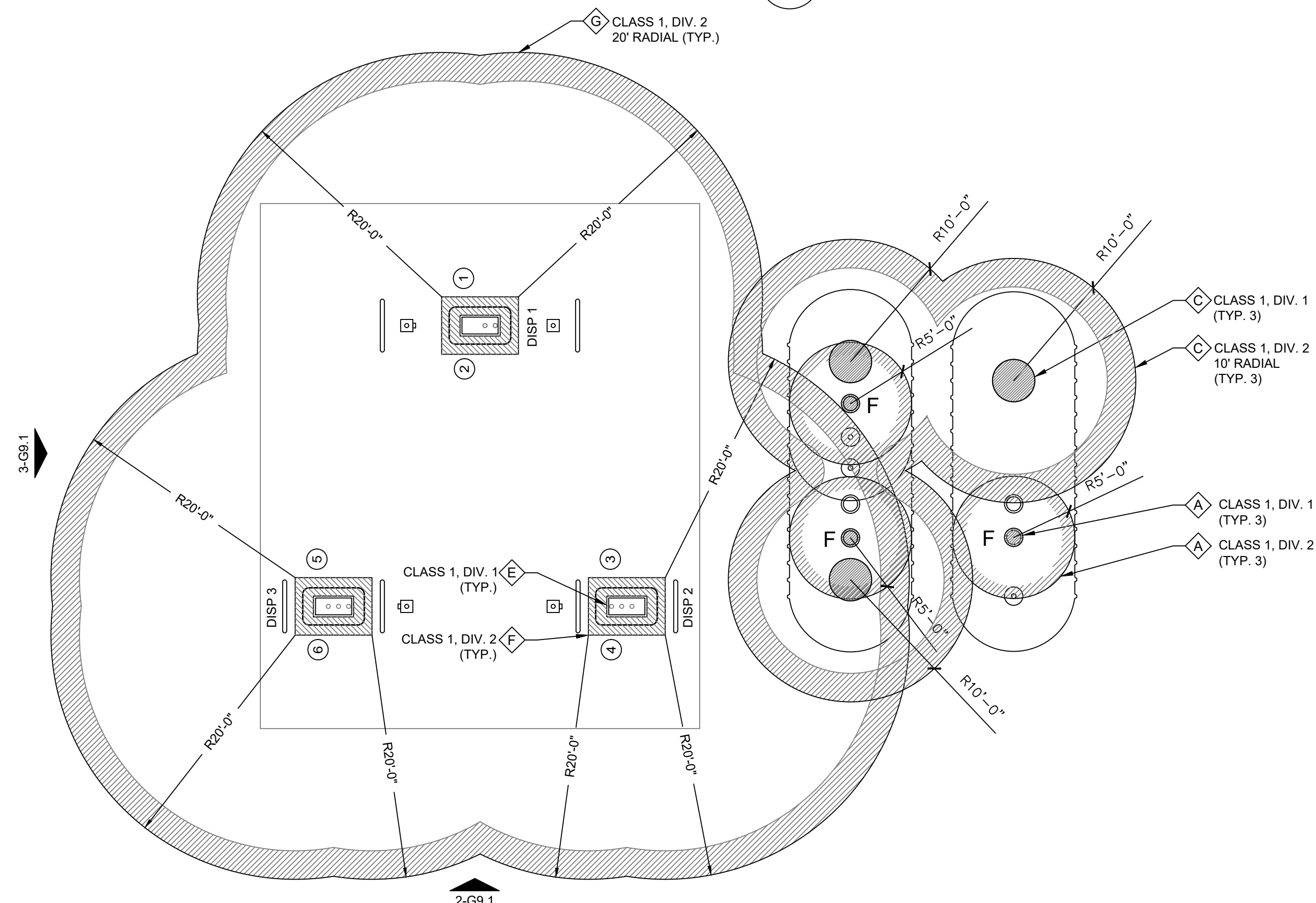
- A** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)  
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.  
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.
- B** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)  
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.  
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
- C** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP - OUTDOOR)  
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP.  
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 3 FEET OF ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTION. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.
- D** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE AND REMOTE VENT - PITS)  
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFICATION LOCATION.  
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS. SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSIIUL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."
- E** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)  
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSIIUL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."
- F** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)  
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS. SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSIIUL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."
- G** TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)  
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.



3 END ELEVATION  
1/4" = 1'-0"

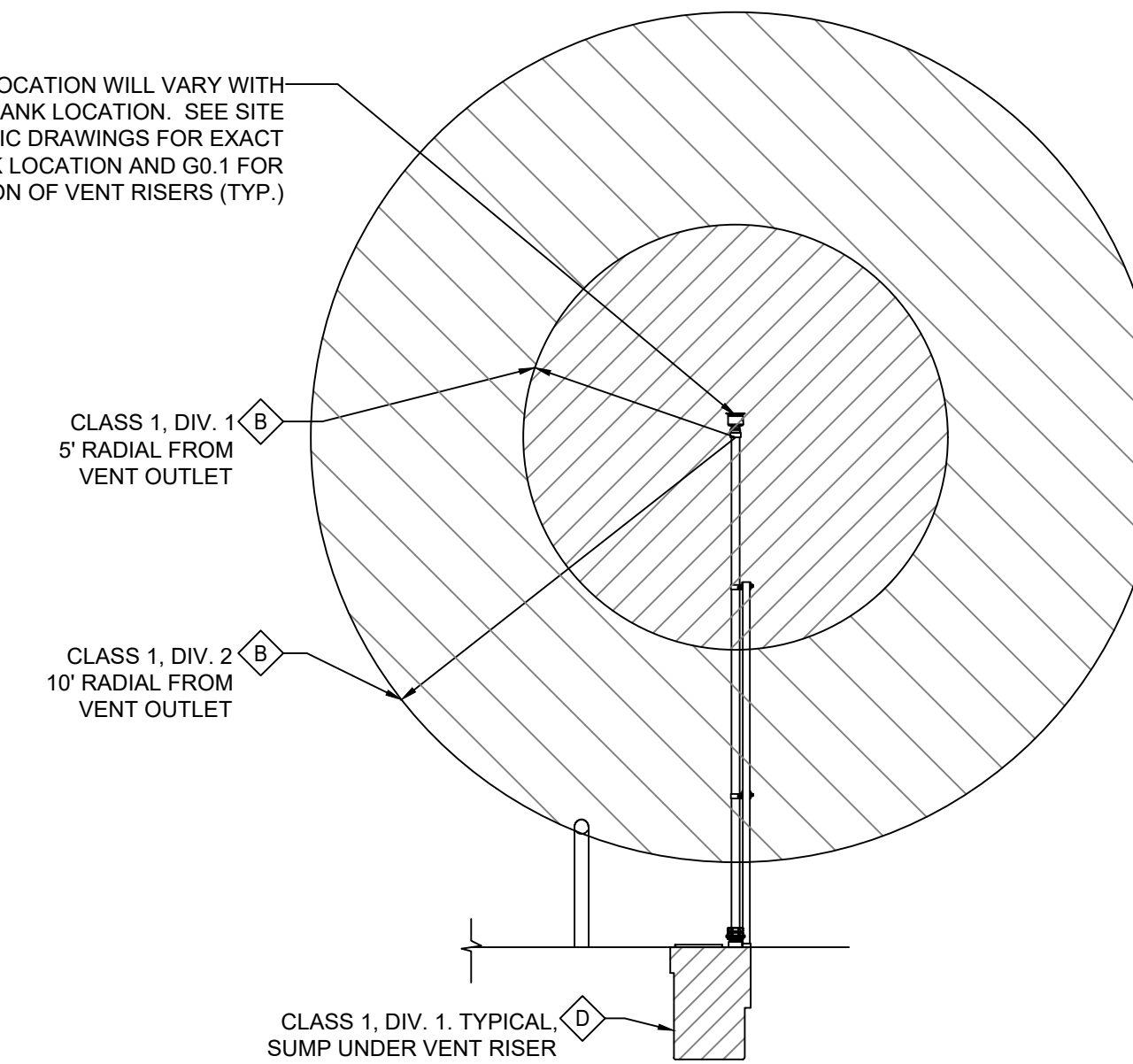


2 SIDE ELEVATION  
1/4" = 1'-0"



1 N.E.C. CLASSIFIED AREA @ GROUND LEVEL  
1/8" = 1'-0"

VENT LOCATION WILL VARY WITH TANK LOCATION. SEE SITE SPECIFIC DRAWINGS FOR EXACT TANK LOCATION AND GO.1 FOR LOCATION OF VENT RISERS (TYP.)



4 N.E.C. CLASSIFIED AREA AT REMOTE VENT  
1/4" = 1'-0"

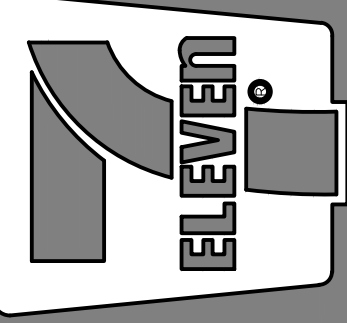
Rev. #	Date	Description

Proto 12-01-2020

7-ELEVEN, INC.  
3200 HACKBERRY ROAD, IRVING TEXAS 75063

7-ELEVEN #38912  
3451 CROMPOUND ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598

N.E.C. CLASSIFIED AREA



**CORE STATES GROUP**

44 East Main Street  
Somerville, NJ 08876  
Tel: 908.529.1000

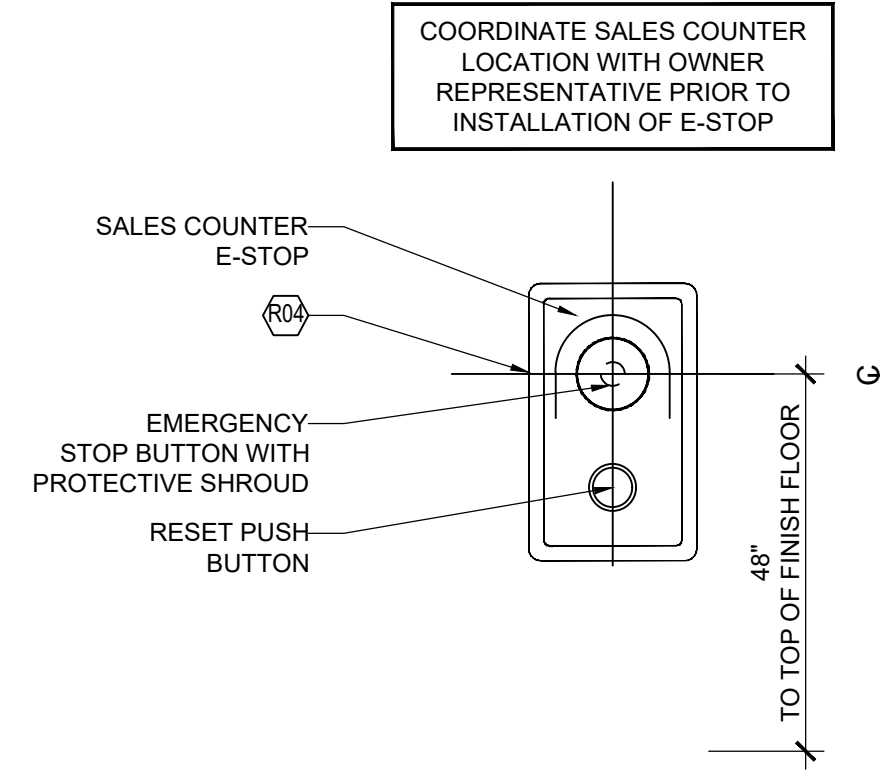
CORE STATES GROUP P.C.  
NEW YORK  
CERTIFIED PROFESSIONAL ENGINEER

Job#:	SEI-32507
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Drawn By:	GJD
Checked By:	CGC

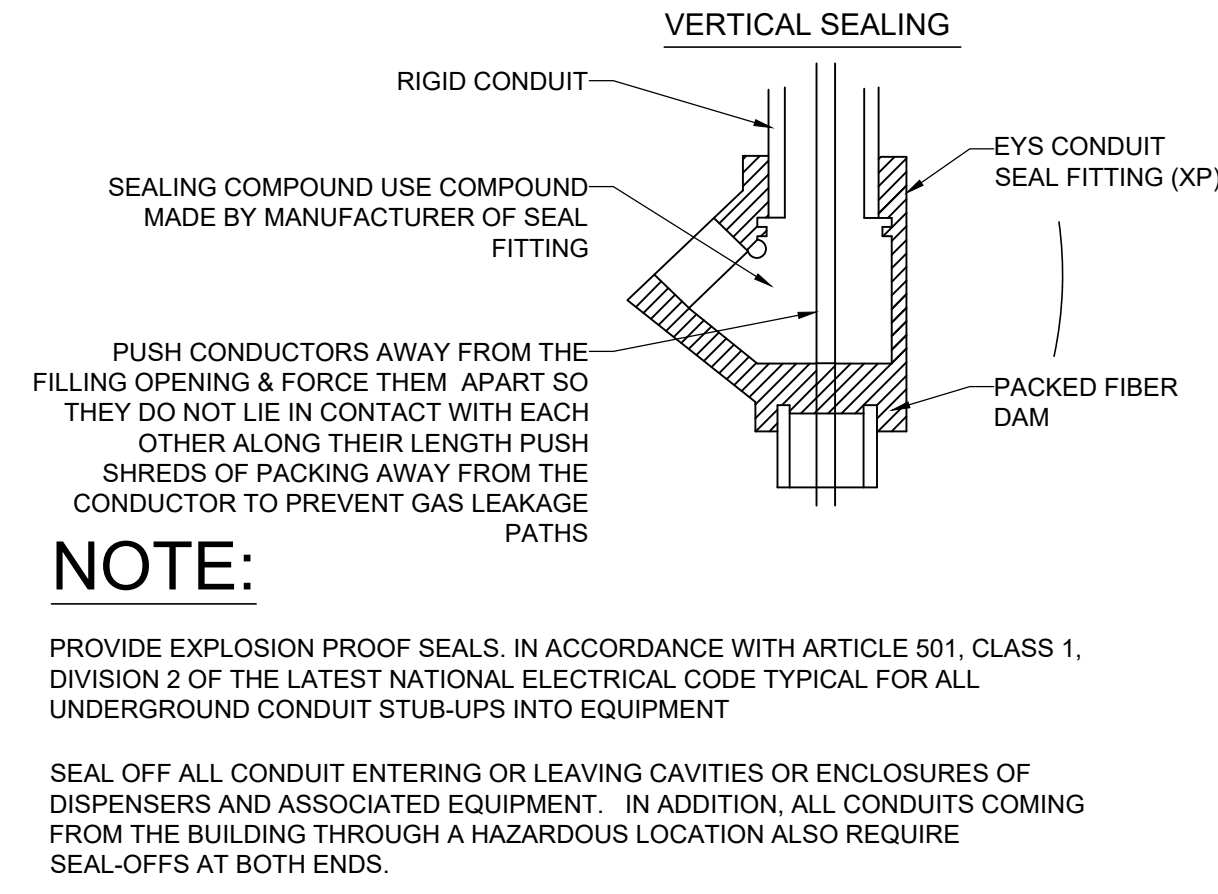
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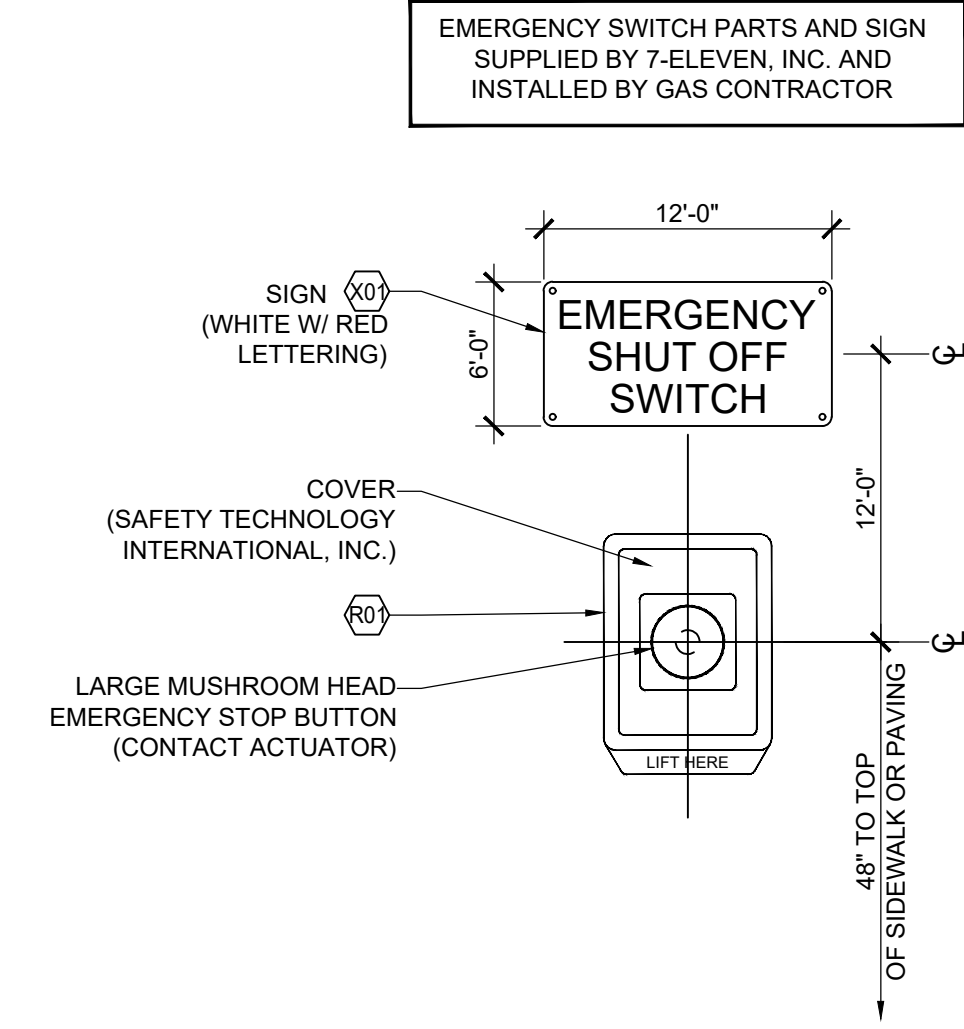
4 EMERGENCY SHUT-OFF SALES COUNTER  
NTS



3 SEAL FITTING INSTALLATION  
NTS



2 EMERGENCY SHUT OFF W/ COVER  
NTS



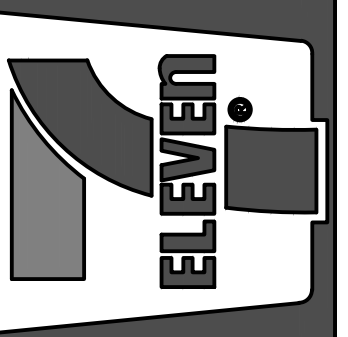
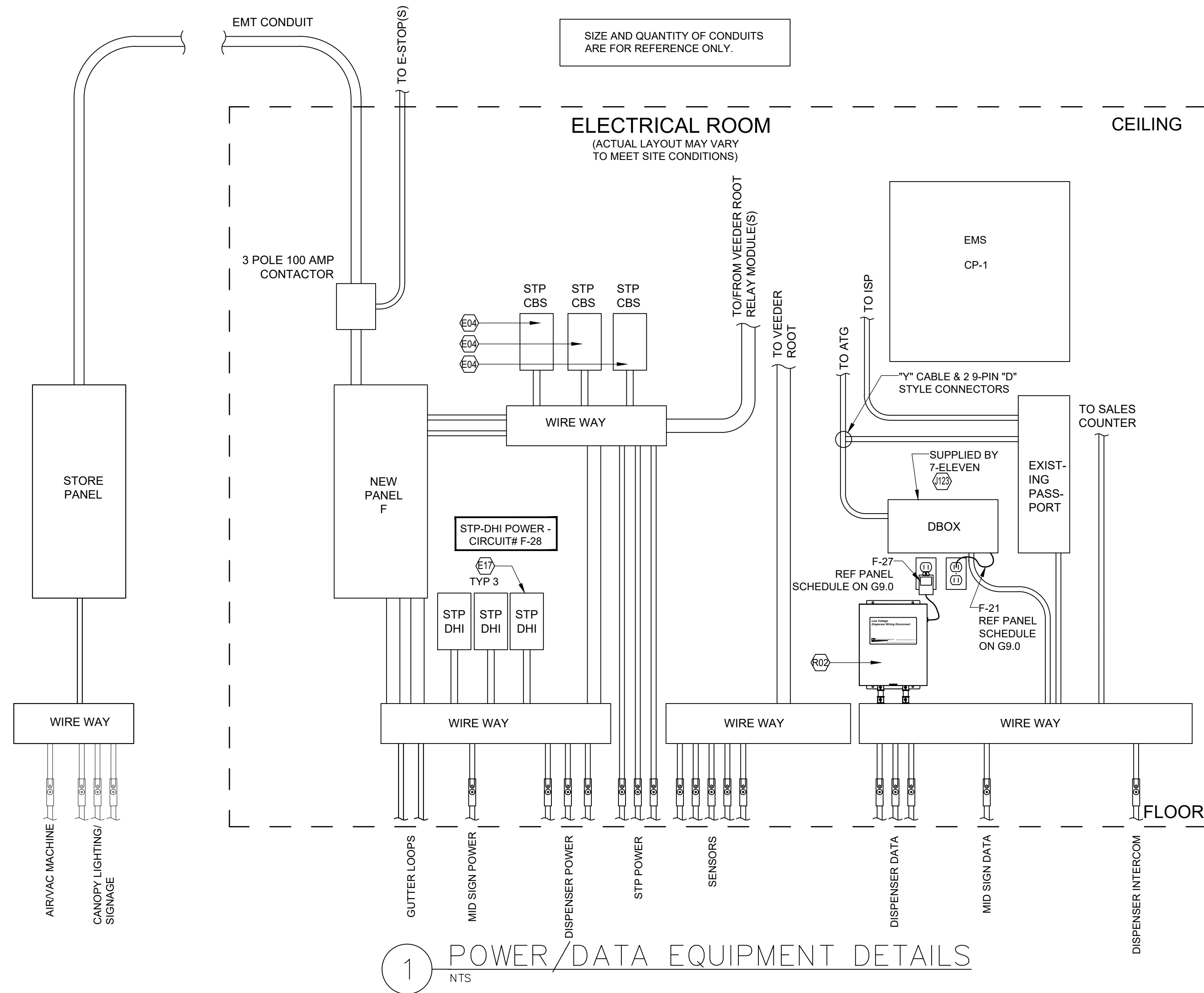
1 POWER/DATA EQUIPMENT DETAILS  
NTS

FUELING CONTRACTOR:  
EXTEND CONDUITS AS REQUIRED TO NEW DISPENSERS AND FUEL TANKS. TIE TO EXISTING WHERE IT IS POSSIBLE. SEE SPECIFICATION SHEET G16.0, SECTION VII, 2.3.1 FOR CONDUIT TYPES.  
NOTE: PULL ALL NEW WIRES AND PULL STRINGS AS REQUIRED.

NOTE: REARRANGE LAYOUT OF EQUIPMENT AS REQUIRED TO FIT NEW PANEL, ISOLATION RELAY BOXES, CONTROL BOXES, NEW CONDUITS, DBOX AND LOW-VOLTAGE DISCONNECT IN EXISTING ELECTRICAL ROOM. REMOVE OLD UNUSED PANELS AND BOXES AS REQUIRED TO MAKE ROOM FOR NEW EQUIPMENT.

NOTE: TIE NEW DISPENSER AND SUMP CONDUIT INTO EXISTING ELECTRICAL ROOM AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.

NOTE: REFERENCE SHEET G11.0 FOR DISPENSER HOOK ISOLATION WIRING DIAGRAMS, STP CONTROLLER, AND VEEDER ROOT RELAY MODULE WIRING DIAGRAMS.

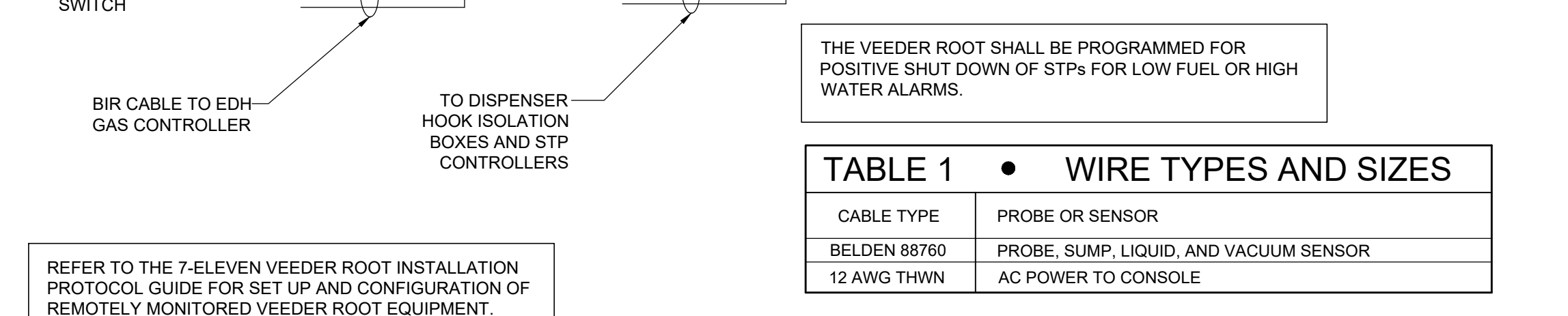
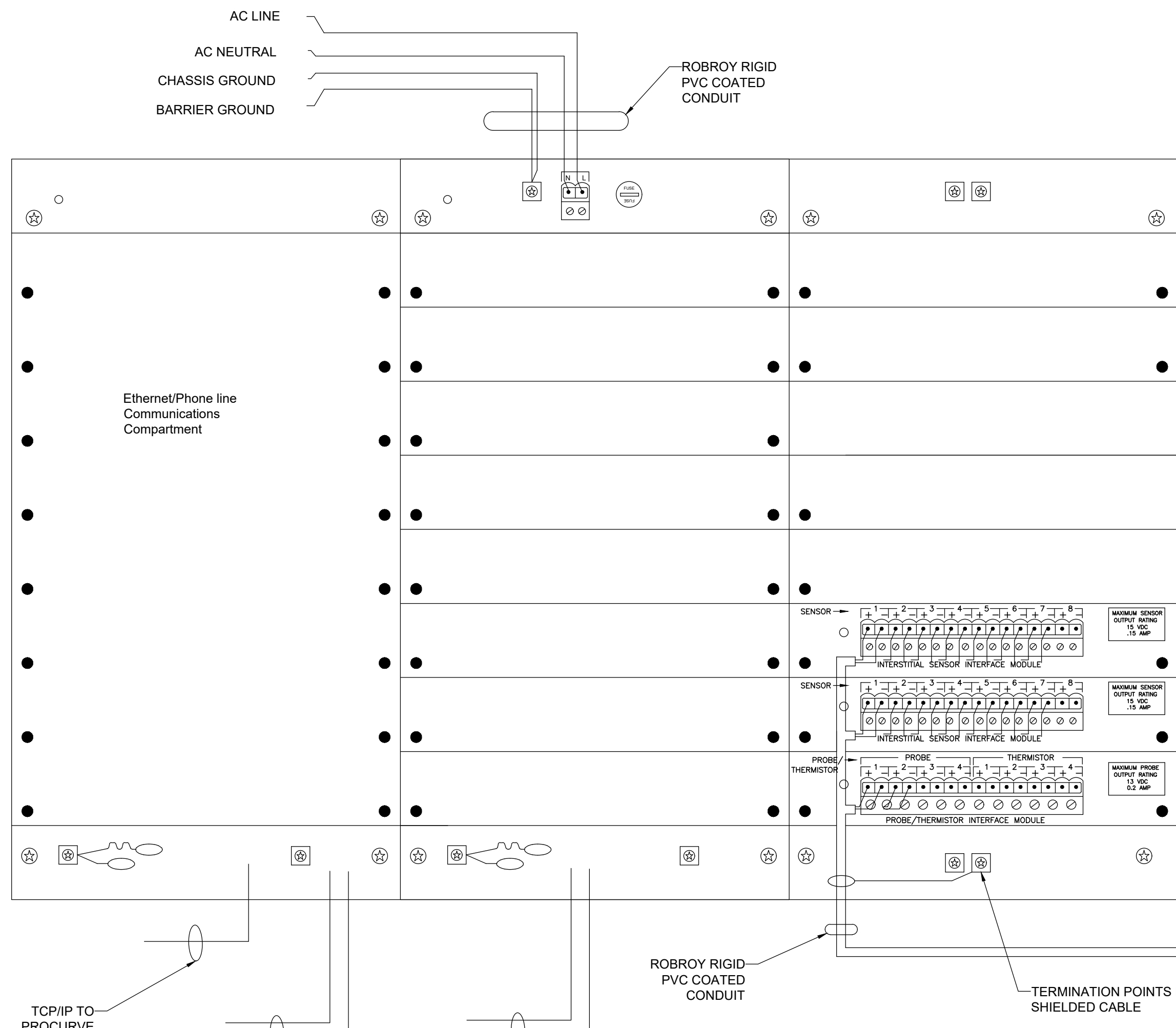


Rev. #	Date	Description



NON-HAZARDOUS AREA

HAZARDOUS AREA



REFER TO THE 7-ELEVEN VEEDER ROOT INSTALLATION PROTOCOL GUIDE FOR SET UP AND CONFIGURATION OF REMOTELY MONITORED VEEDER ROOT EQUIPMENT.

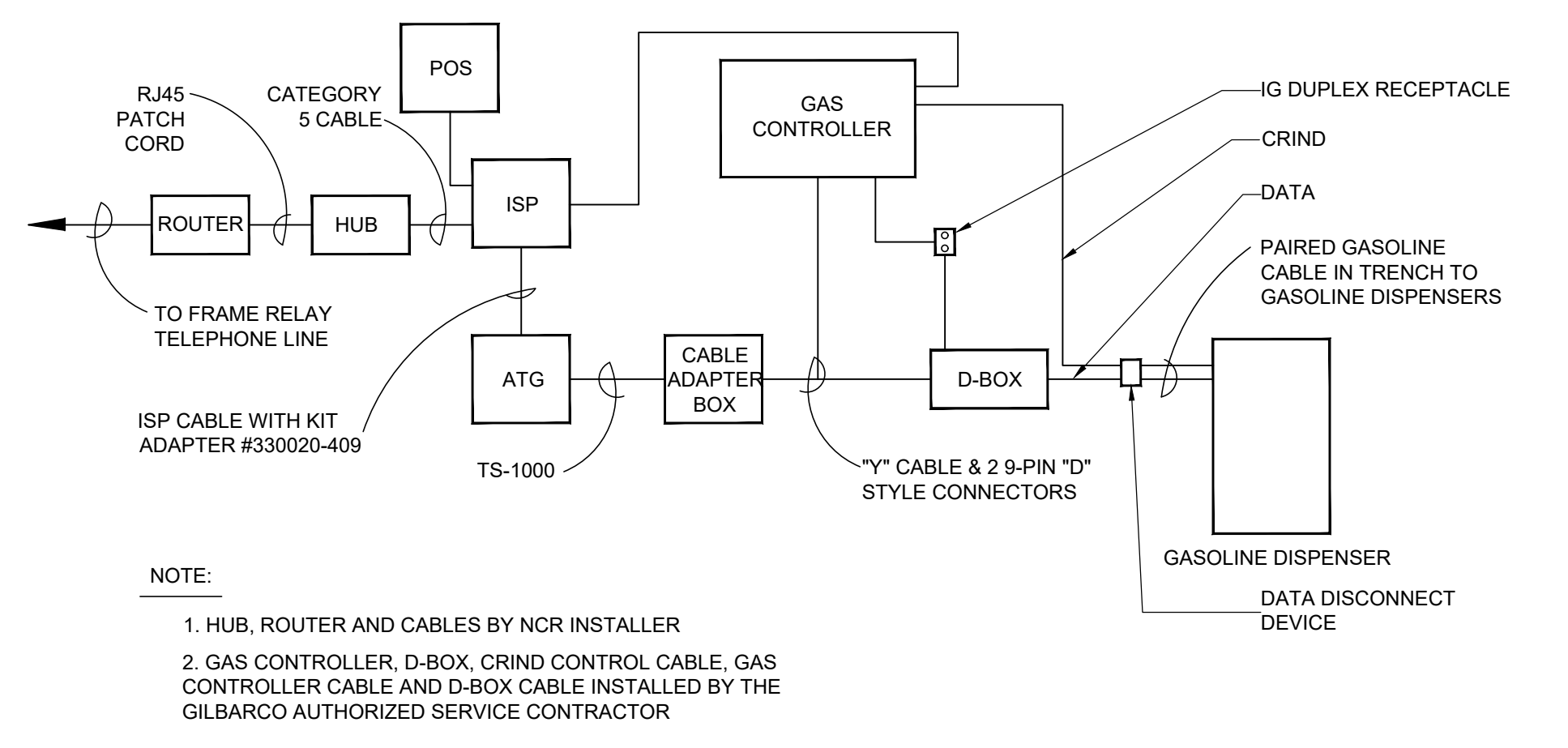
THE VEEDER ROOT SHALL BE PROGRAMMED FOR POSITIVE SHUT DOWN OF STPs FOR LOW FUEL OR HIGH WATER ALARMS.

CABLE TYPE	PROBE OR SENSOR
BELDEN 88760	PROBE, SUMP, LIQUID, AND VACUUM SENSOR
12 AWG THWN	AC POWER TO CONSOLE

CONTRACTOR SHALL PLACE A TYPEWRITTEN SENSOR SCHEDULE THAT INDICATES WHICH CHANNEL IS ASSOCIATED WITH WHICH SENSOR

# 1 SITE MONITORING WIRING SCHEMATIC

1 1/2" = 1'-0"



# 2 POS GAS CONTROLLER - DEX DIAGRAM

NTS

## GENERAL NOTES

**IMPORTANT: THIS IS A CONTROL DRAWING ONLY AND DOES NOT REFLECT THE ACTUAL LOCATIONS OF CONDUIT ENTRY (SEE NOTE 7 BELOW).**

VEEDER-ROOT REQUIRES THAT ANYONE INSTALLING OUR EQUIPMENT MUST BE LEVEL I CERTIFIED. FOR MORE INFORMATION REGARDING THE HOME STUDY INSTALLERS COURSE CONTACT JOHN HOWELL 951-532-8599.

**WARNING:** IN INSTALLATION AND USE OF THIS PRODUCT, COMPLY WITH THE NATIONAL ELECTRICAL CODE, FEDERAL, STATE AND LOCAL CODES. IN ADDITION, TURN OFF POWER AND TAKE OTHER NECESSARY PRECAUTIONS DURING INSTALLATION, SERVICE AND REPAIR TO PREVENT PERSONAL INJURY, PROPERTY LOSS AND EQUIPMENT DAMAGE.

**WARNING:** DISCONNECT ALL POWER BEFORE MAKING ANY CONNECTIONS TO PREVENT DEATH, SERIOUS INJURY, EXPLOSION, OR ELECTRICAL SHOCK. MONITOR MUST NEVER BE OPERATED UNLESS THE FRONT COVER IS CLOSED OVER THE BARRIER TERMINALS IN THE INTRINSICALLY SAFE AREA.

**1. INTRINSICALLY SAFE WIRING**  
BONDED CONDUIT MEANS THAT THE METALLIC SECTIONS OF CONDUIT ARE PERMANENTLY JOINED TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ASSURE ELECTRICAL CONTINUITY, AND THAT THE CONDUIT HAS THE CAPACITY TO CONDUCT SAFELY, ANY CURRENT LIKELY TO BE IMPOSED.  
a) BONDED & NON-BONDED CONDUIT - THE WIRES BETWEEN THE MONITOR AND EACH PROBE/SENSOR LOCATION MUST BE #14, #16 OR #18 AWG STRANDED COPPER WIRES WITHIN A SHIELDED CABLE. SHIELDED CABLE MUST BE RATED AT LESS THAN 100 PICO FARAD PER FOOT AND MUST BE MANUFACTURED WITH A MATERIAL SUITABLE FOR THE ENVIRONMENT, SUCH AS BELDEN™ 88760.

**2. CONNECT THE BARRIER GROUND TO THE EARTH GROUND BUS AT THE POWER DISTRIBUTION PANEL WITH #12 AWG (OR LARGER) CONDUCTOR.**

**3. DENOTES FIELD WIRING CONNECTION USING WATERPROOF CONNECTORS SUPPLIED WITH THE PROBE(S) AND SENSOR(S).**

**4. INTRINSICALLY SAFE WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 504-20 OF THE NEC, ANS/NFPA 70.**

**5. TO MAINTAIN INTRINSIC SAFETY, PROBE/SENSOR WIRING MUST BE INSTALLED WITH EITHER SEALED CONDUIT OR DIRECT BURIAL METHODS. REFER TO "DIRECT BURIAL CABLE INSTALLATION" MANUAL NO. 576013-858.**

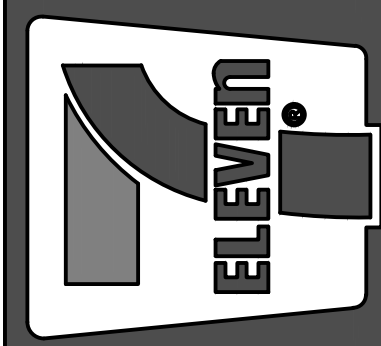
**6. ELECTRICAL RATING POWER INPUT 120 VAC, 50/60 HZ, 100 VA MAXIMUM.**

**7. THIS DOCUMENT IS NOT TO BE USED AS A SUBSTITUTE FOR SPECIFIC EQUIPMENT INSTALLATION MANUALS. FOR INSTALLATION DETAILS USE THE RESPECTIVE MANUAL.**  
TLS-350(R) 576013-879

**8. ALL CABINET PENETRATIONS MUST ENTER THROUGH A PRE-DRILLED CONDUIT KNOCKOUT.**

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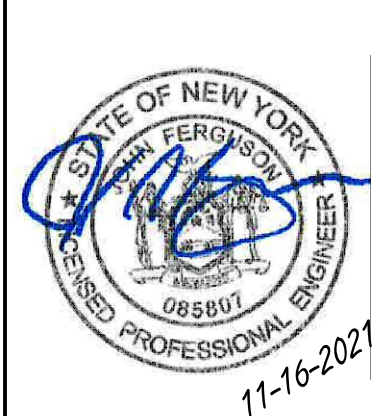
**7-ELEVEN, INC.**  
3200 HACKBERRY ROAD, IRVING TEXAS 75063  
**7-ELEVEN #38912**  
3451 CROMPOD ROAD  
YORKTOWN HEIGHTS, NEW YORK 10598  
SITE MONITORING EQUIPMENT DIAGRAM



**CORE STATES GROUP**  
CORPORATE SERVICES GROUP P.C.  
44 East Main Street  
Somerville, NJ 08876  
CERTIFIED PROFESSIONAL ENGINEER  
CORE STATES GROUP P.C.  
CORP. NO. 0313279

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# PERFORMANCE SPECIFICATION - CONT.

## SECTION II INSPECTIONS / TESTING - CONTINUED

### PART 3 - TANK INSTALLATION INSPECTION

- 3.1 SCHEDULE: CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING SCHEDULE SO TANKS ARE TESTED AND SET IN TANK HOLE SAME DAY OF DELIVERY.
- 3.2 EXCAVATION: ALL EXCAVATIONS SHALL BE COMPLETED WITH BEDDING MATERIAL IN PLACE AND READY FOR INSTALLATION PRIOR TO TANK DELIVERY.
- 3.3 ANCHORING: CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF CONCRETE ANCHORS (DEAD MAN).
- 3.4 STRAPS: HOLD DOWN STRAPS TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS - MINIMUM OF 4 - MORE IF REQUIRED BY MANUFACTURER (STRAPS SHALL BE SHIPPED WITH APPROPRIATE PADDING MATERIAL).
- 3.5 AIR TEST: TANKS SHALL BE AIR TESTED AS PER MANUFACTURER'S SPECIFICATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS TO PROVIDE COMPLETE AIR TEST INCLUDING, BUT NOT LIMITED TO, AIR COMPRESSOR OF SUFFICIENT SIZE AND CAPACITY, SPECIFIED SOAP MATERIAL AND ACCEPTABLE SOAP APPLICATION EQUIPMENT.
- 3.6 MINIMUM TESTING: DOUBLE WALL FIBERGLASS TANKS SHOULD ARRIVE AT THE JOB SITE WITH A MINIMUM OF 4" HG ON THE INTERSTICE. OBSERVE THE VACUUM HOLD TEST FOR AT LEAST ONE (1) HOUR PRIOR TO SETTING THE TANKS. SHOULD THE INTERSTICE NOT HOLD A MINIMUM 4" HG VACUUM, THEN CONTACT THE TANK MANUFACTURER IMMEDIATELY.
- 3.7 OBSERVATION: 7-ELEVEN'S CONSTRUCTION DEPARTMENT AND/OR REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSPECTION OF AIR OR VACUUM TEST, OBSERVATION OF LIFTING, SETTING AND BURIAL OF TANKS.
- 3.8 TANK INSPECTION REPORT: WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

### PART 4 - TANK AND LINE TESTING

- 4.1 CONTRACTOR SHALL COMPLETE AND BE RESPONSIBLE FOR THE FOLLOWING PRIOR TO FINAL PLACEMENT OF CONCRETE AND FINAL SYSTEM TEST:
  - 4.1.1 PIPING: ALL PIPING SHALL BE COMPLETED EXCEPT INSTALLATION OF OVERFILL PROTECTION. OVERFILL PROTECTION SHALL BE INSTALLED UPON COMPLETION OF TEST.
  - 4.1.2 VENTS: VENT LINES SHALL BE COMPLETED UNDERGROUND AND STUBBED UP MINIMUM OF 12" ABOVE FINISHED GRADE.
  - 4.1.3 PRODUCT LINES: ALL PRODUCT LINES SHALL BE COMPLETE WITH EMERGENCY SHUTOFF IMPACT VALVE INSTALLED AT DISPENSER BOX WITH MECHANICAL LEAK DETECTOR IN PLACE.
  - 4.1.4 PUMPS: SUBMERSIBLE PUMPS AND LINES SHALL BE COMPLETELY INSTALLED.
  - 4.1.6 SITE PREPARATION: CONTRACTOR SHALL PREPARE TANK AREA FOR WATER OR PRODUCT DELIVERY AND TANK TESTING PROCEDURES.
  - 4.1.7 FILL: CONTRACTOR SHALL PROVIDE 42" MINIMUM BACK FILL OVER TANKS.
  - 4.1.8 WATER: SHOULD WATER BE PRESENT IN TANK HOLE, CONTRACTOR SHALL VERIFY AND NOTIFY 7-ELEVEN CONSTRUCTION MANAGER OF STATUS.
- 4.2 AFTER PLACEMENT OF CONCRETE, A COMPLETE SYSTEM TIGHTNESS TEST INCLUDING TANKS, PRODUCT LINES, STAGE II VAPOR RECOVERY LINES, SECONDARY CONTAINMENT PIPING AND VENT LINES SHALL BE PERFORMED. TESTING SYSTEM SHALL BE AS APPROVED BY 7-ELEVEN. 7-ELEVEN WILL BE BILLED DIRECTLY FOR TESTS. CONTRACTOR TO COORDINATE & SCHEDULE. RE-TEST OR STAND AROUND TIME BY THE TESTING COMPANY TO BE BILLED TO CONTRACTOR. DETAILS FOR THIRD PARTY TESTING REQUIREMENTS LISTED ON G17.0 SHEETS.
  - 4.2.1 AFTER ALL UNDERGROUND PIPING AND ELECTRIC CONDUITS ARE INSTALLED AND DURING EXCAVATION BACKFILLING AND CONCRETE POURING, A CONTINUOUS HYDROSTATIC TEST SHALL BE PERFORMED ON ALL SUMPS & SPILL BUCKETS TO ENSURE TIGHTNESS AND PROPER INSTALLATION.
- 4.3 PRODUCT DELIVERY: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO 7-ELEVEN REPRESENTATIVE OF TEST DATE AND VERIFICATION OF NEED FOR TANKS TO BE FILLED WITH PRODUCT AND TANK MONITORING SYSTEM TO BE OPERATIONAL FOR TESTING PROCEDURES. A MINIMUM OF 72 HOURS ADVANCE NOTIFICATION WILL BE REQUIRED FOR PRODUCT DELIVERY. CHECK WITH LOCAL REGULATORY AGENCIES FOR ANY FURTHER REQUIREMENTS.
- 4.4 CONTRACTOR SHALL HAVE REPRESENTATIVES ON SITE TO ACCEPT AND RECORD ALL PRODUCT DELIVERIES. CONTRACTOR'S REPRESENTATIVE SHALL REMIND DELIVERY COMPANY THAT NO OVERFILL PROTECTION IS INSTALLED AND TO FOLLOW PROCEDURES FOR DELIVERY AS SITUATION DICTATES.
- 4.5 PRODUCT REMOVAL: ANY REMAINING PRODUCT IN VENT LINES UPON COMPLETION OF TEST SHALL BE REMOVED BY TESTING COMPANY.

### PART 5 - STARTUP INSPECTION

- 5.1 SCHEDULING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SCHEDULING STARTUP AND CHECK-OUT. CONTRACTOR SHALL NOTIFY LOCAL CONSTRUCTION DEPARTMENT AND APPLICABLE MAINTENANCE DEPARTMENT OFFICE A MINIMUM OF 48 HOURS PRIOR TO INTENDED FINAL STARTUP AND CHECK-OUT DATE AND TIME.
- 5.2 PERSONNEL: CONTRACTOR, FUEL SUBCONTRACTOR AND ELECTRICAL SUBCONTRACTOR SHALL BE AVAILABLE ON-SITE DURING STARTUP, AS APPROVED BY 7-ELEVEN, INC. ALL STARTUPS ARE TO BE DONE BY AN AUTHORIZED MANUFACTURER'S CONTRACTOR FOR THAT PIECE OF EQUIPMENT.
- 5.3 STARTUP: PHYSICAL STARTUP AND CHECK-OUT OF SYSTEMS AND EQUIPMENT SHALL BE DONE BY AND AT THE DIRECTION OF 7-ELEVEN REPRESENTATIVE ONLY. CONTRACTOR SHALL NOT START OR ACTIVATE ANY EQUIPMENT WITHOUT THE SPECIFIC DIRECTIVE OF 7-ELEVEN REPRESENTATIVE. DAMAGE TO ANY 7-ELEVEN EQUIPMENT DUE TO IMPROPER INSTALLATION AND/OR UNAUTHORIZED STARTUP WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5.4 SITE COMPLETION: ALL SITE WORK, INCLUDING CONCRETE/ASPHALT PAVEMENTS, SHALL BE COMPLETE. ALL UTILITIES SHALL BE CONNECTED AND OPERATIONAL. ALL LANDSCAPING, INCLUDING SPRINKLER SYSTEMS, SHALL BE COMPLETE.
- 5.5 VERIFICATION: PRIOR TO SCHEDULING OF STARTUP, CONTRACTOR SHALL OBSERVE AND VERIFY CORRECTNESS AND COMPLIANCE TO 7-ELEVEN'S DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING, BUT THESE SHALL NOT COMPRISE THE TOTAL LIMIT OF THE CONTRACTOR'S VERIFICATION:
  - 5.5.1 MANHOLES SHALL BE PROPERLY CENTER/INSTALLED AT OVERFILLS, SUBMERSIBLES, VAPOR RECOVERY, AUTO GAUGING, OBSERVATION WELLS AND SUMP/RISER.
  - 5.5.2 PROPER HEIGHT OF GRAVEL BACK FILL AROUND SUMP/RISERS.
  - 5.5.3 TANK I.D. MARKERS INSTALLED IN CONCRETE AT PROPER LOCATIONS.

## SECTION II INSPECTIONS / TESTING - CONTINUED

### PART 5 - STARTUP INSPECTION - CONTINUED

- 5.5.4 ALL BRASS GOODS AND FITTINGS PROPERLY INSTALLED, TIGHT AND SECURE.
- 5.5.5 LEAK DETECTORS INSTALLED.
- 5.5.6 PROTECTED FLEX CONNECTORS ARE PROPERLY INSTALLED WITHOUT TWIST IN INSTALLATION.
- 5.5.7 MANHOLE EXTENDERS PROPERLY INSTALLED AND SCREWED IN FRAME OF MANHOLE SUMP/RISERS, PROPERLY SET AND SEALED TO TANK MAN WAY OR FITTINGS AND CLEANED OUT FREE OF DEBRIS AND CONCRETE.
- 5.5.8 TANKS CLEAN AND FREE OF WATER. PRIOR TO PRODUCT FILL, TANKS ARE TO BE CHECKED FOR ANY DEBRIS AND WATER. ANY EVIDENCE OF BOTH, TANKS ARE TO BE CLEANED AND WATER REMOVED.
- 5.5.9 ISLAND FORM INNER BOXES PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.
- 5.5.10 DISPENSERS PROPERLY SET AND SECURED TO ISLAND BOX FRAME AND DISPENSER SUMPS PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.
- 5.5.11 SHEAR VALVES SECURED TO FRAME WITH PROPER HARDWARE.
- 5.5.12 PHASE II VAPOR RECOVERY LINES STUBBED UP AND SECURED IN PROPER LOCATION.
- 5.5.13 ELECTRICAL CONDUITS SECURED WITH ALL CONNECTIONS COMPLETED. VERIFY COMPLIANCE WITH REQUIREMENTS FOR ISOLATED GROUND WIRING TO JUNCTION BOX CASING.
- 5.5.14 DISPENSER CANOPIES INSTALLED AND LIFTING LUGS REMOVED WITH PROPER PLUGS INSERTED.
- 5.5.15 ALL NOZZLES AND SWIVELS AVAILABLE ON-SITE, INSTALLED PRIOR ONLY IF REQUIRED BY GOVERNING AUTHORITIES FOR INSPECTION PURPOSES.
- 5.5.16 ALL INSPECTIONS BY GOVERNING AUTHORITIES COMPLETED AND SIGNED. SIGNED AND COMPLETED PERMIT CARD ON SITE.
- 5.5.17 ELECTRICAL DEVICES INCLUDING LIGHTS, SIGNS AND INTERCOMS PROPERLY INSTALLED, SECURED AND PLUMB.
- 5.5.18 ANY WIRING INSPECTION PORTS IN CANOPY COLUMNS COVERED WITH ACCEPTABLE PLATES.
- 5.5.19 VENT LINES PROPERLY SECURED, PROTECTED AND INSTALLED AT PROPER HEIGHT.
- 5.5.20 VERIFICATION OF COMPLIANCE FOR TANK AND LINE TEST AVAILABLE ON SITE.
- 5.5.21 ALL MANHOLES FREE OF CONCRETE AND DEBRIS.
- 5.5.22 MANHOLE COVERS PROPERLY PAINTED.
- 5.5.23 ALL PAINTING COMPLETE INCLUDING CANOPY, DOWN SPOUTS, METALS AND MISCELLANEOUS METALS.
- 5.5.24 CONCRETE AT ISLANDS AND TANK PAD TRUE, PROPERLY SLOPED AND FINISHED WITH ACCEPTABLE RISE TO MANHOLES.
- 5.5.25 ELECTRICAL PANELS PROPERLY COMPLETED TO INCLUDE:
  - (A) ONE BREAKER FOR EACH SUBMERSIBLE PUMP, DISPENSER, CONSOLE AUTO GAUGING, DISPENSER LIGHTS (ALL) AND CANOPY LIGHTS (ALL).
  - (B) GAS PANEL CONTROLLED BY A MAIN BREAKER.
  - (C) CONTROL BOXES AND DISTRIBUTION BOXES INSTALLED AND WIRED.
  - (D) INTERCOM INSTALLATION COMPLETE AND PROPERLY WORKING.
  - (E) ALL APPLICABLE CONSOLE INSTALLATION COMPLETE AND FUNCTIONAL.
  - (F) ALL WIRING PROPERLY IDENTIFIED WITH COLOR CODED WIRING.
  - (G) CONDUITS PROPERLY IDENTIFIED. (H) ALL BREAKERS IN "OFF" POSITION.
- 5.6 NOTIFICATION: CONTRACTOR SHALL VERIFY ITEMS AS INDICATED ABOVE PRIOR TO SCHEDULING OF STARTUP MONIES AND/OR TIME LOST AT STARTUP DUE TO NON-COMPLIANCE SHALL BE CHARGED TO CONTRACTOR ACCORDINGLY.
- 5.7 EQUIPMENT SHALL BE TESTED PER SPECIFICATIONS ON SHEET G17.0.
- 5.8 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

## SECTION III EARTHWORK

### PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO EARTHWORK.

### PART 2 - PRODUCTS

- 2.1 FILL MATERIAL: SHALL BE MATERIAL IN COMPLIANCE WITH TANK AND PIPING MANUFACTURER'S SPECIFICATIONS.
  - 2.1.1 PEA GRAVEL: SHALL BE CLEAN, NATURALLY ROUNDED AGGREGATE WITH A MIX OF PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4".
  - 2.1.2 STONE OR GRAVEL CRUSHING: SHALL BE WASHED MATERIAL WITH ANGULAR PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2".
  - 2.1.3 BACKFILL OR OTHER MATERIAL MUST BE APPROVED BY TANK MANUFACTURER.
- NOTE: MATERIALS MUST MEET ASTM C-33 PARAGRAPH 7.1 FOR QUALITY AND SOUNDNESS. FILL MATERIAL SHALL NOT HAVE MORE THAN 3% PASSING A #8 SIEVE. DRY GRAVEL DENSITY MUST BE A MINIMUM OF 95 POUNDS PER CUBIC FOOT.

## SECTION III EARTH WORK - CONTINUED

### PART 3 - EXECUTION

- 3.1 PROTECTIONS: PROVIDE ADEQUATE SHORING, BRACING, PILING AND CRIBBING. COMPLY WITH ALL OSHA AND LOCAL REGULATIONS AS IT PERTAINS TO SAFETY.
- 3.2 LAYOUT: CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AS PRESENTED IN PERMITTED PLANS AND SPECIFICATIONS.
- 3.3 EXCAVATION: EXCAVATE TO LINES, ELEVATIONS AND LIMITS REQUIRED BY THE DRAWINGS, PLUS SUFFICIENT DISTANCE AND SPACE TO PERMIT INSTALLATION OF TANKS. EXCAVATE AS REQUIRED, REGARDLESS OF TYPE, CONDITION OR MOISTURE CONTENT OF THE MATERIAL ENCOUNTERED. HAUL EXCESS MATERIAL OFF THE SITE AND DISPOSE OF SAME. DIMENSIONS OF TANK EXCAVATION SHALL BE MINIMAL AS ESTABLISHED BY 7-ELEVEN DRAWINGS UNLESS TANK MANUFACTURER REQUIREMENTS ARE GREATER. IF EXCAVATION MATERIAL IS FROM AN EXISTING GASOLINE FACILITY ALL MATERIALS MUST BE TESTED PRIOR TO REMOVAL.
- 3.4 SAW CUTTING: IF PAVING MUST BE REMOVED, THE PERIMETER OF THE TANK EXCAVATION AND ALL TRENCHES SHALL BE CUT WITH A CONCRETE SAW. NOTE: PAVING TO BE CUT 2' BEYOND EDGES OF EXCAVATIONS IN ALL DIRECTIONS IN ORDER TO GIVE PROPER SUPPORT TO NEW SLAB TO AVOID SETTLING.
- 3.5 HAZARDOUS MATERIAL: SHOULD ROCK, WATER OR OTHER HAZARDOUS MATERIALS NOT SHOWN ON SOILS TEST BE ENCOUNTERED, LOCAL CONSTRUCTION OFFICE SITE MANAGER SHALL BE IMMEDIATELY CONTACTED FOR APPROVAL TO PROCEED.
- 3.6 PROTECTION: CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION WITH EARTHEN BERMS AT ALL TIMES TO PROTECT TANK EXCAVATION AND TRENCHES FROM DRAINAGE OF SURFACE WATERS. EXCAVATIONS SHALL BE PROPERLY MARKED, PROTECTED AND BARRICADED FOR SAFETY UNTIL BACK FILL IS COMPLETE AND SURFACING FINISHED.
- 3.7 SHORING: CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIREMENTS FOR SHORING AND PROVIDING SHORING. SHOULD SITE AND/OR SOIL CONDITIONS WARRANT SHORING. REFERENCE SOIL REPORT FOR CONDITIONS WARRANTING SPECIAL REQUIREMENTS.
- 3.8 FILLING AND BACK FILLING: PLACE APPROVED FILL MATERIAL IN STRICT ACCORDANCE WITH TANK AND PIPING MANUFACTURER'S SPECIFICATIONS. PROVIDE A 12" BED OF APPROVED BACK FILL OVER BOTTOM OF EXCAVATION PRIOR TO TANK PLACEMENT. BACK FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 12" LIFTS.
- 3.9 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

## SECTION IV TANK INSTALLATION

### PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE INSTALLATION OF FUEL STORAGE TANKS.

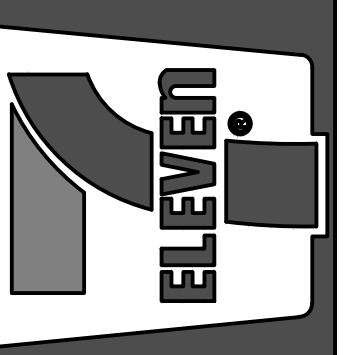
### PART 2 - PRODUCTS

- 2.1 TANKS: SHALL BE DESIGNED AND MANUFACTURED SO AS TO BE CORROSION PROTECTED PER EPA REQUIREMENTS. APPROVED TANKS SHALL BE:
  - 2.1.1 DOUBLE WALL FIBERGLASS TANKS
- 2.2 HOLD DOWN STRAPS: SHALL BE SUPPLIED BY TANK MANUFACTURER ONLY. FIELD FABRICATED UNITS ARE NOT ACCEPTABLE.

### PART 3 - INSTALLATION

- 3.1 MANUFACTURING: REFER TO TANK MANUFACTURER'S CRITERIA AND SPECIFICATIONS FOR TANK INSTALLATION AND ADHERE TO AS REQUIRED.
- 3.2 CLEARANCES: MINIMUM CLEARANCE FOR TANKS SHALL BE AS FOLLOWS: SHOULD REQUIREMENTS OF TANK MANUFACTURER OR SOIL CONDITIONS DICTATE GREATER CLEARANCE, ADHERE TO ACCORDINGLY.
  - 3.2.1 BOTTOM: PROVIDE MINIMUM OF 12" BEDDING MATERIAL BETWEEN BOTTOM OF EXCAVATION OR PAD AND BOTTOM OF TANK.
  - 3.2.2 SIDES: PROVIDE MINIMUM OF 20" BETWEEN TANKS AND 3' FROM SIDE/END OF TANK TO WALL OF EXCAVATION.
  - 3.2.3 TOP: PROVIDE 42" FILL MATERIAL OVER TANK PLUS 8" OF CONCRETE
- 3.3 TESTING: PRIOR TO INSTALLATION OF TANKS, TESTING PER MANUFACTURER'S INSTRUCTIONS SHALL BE PERFORMED ON TANK(S). ON DUAL WALL TANKS, CONSULT TANK MANUFACTURER FOR TESTING CRITERIA.
- 3.4 PLACEMENT:
  - 3.4.1 REFER TO SITE PLAN FOR TANK PLACEMENT AND PRODUCT ROTATION.
  - 3.4.2 PRIOR TO SETTING OF TANKS, REMOVE ALL FOREIGN DEBRIS, ROCKS, CLOUDS, GARBAGE, ETC. FROM EXCAVATION.
  - 3.4.3 PLACE TANKS ONLY ON APPROVED FILL. DO NOT SET ON CONCRETE OR WOOD.
  - 3.4.4 NOT USED.
  - 3.4.5 TANKS SHALL BE BURIED TO MINIMUM DEPTH AS PER ABOVE AND AS SHOWN ON FUELING DRAWINGS. TANKS MAY REQUIRE GREATER BURIAL DEPTH IF INSTALLED IN REMOTE POSITION TO ALLOW FOR PROPER SLOPE ON VENT LINES, VAPOR LINES. SECONDARY CONTAINMENT PRODUCT LINES. VERIFY DEPTH AS REQUIRED. (IF BURIAL DEPTH EXCEEDS 5'-0" (60"), NOTIFY 7-ELEVEN MANAGER)

Description	Date	Rev. #
Proto 12-01-2020		
7-ELEVEN, INC. 3200 HACKBERRY ROAD, IRVING TEXAS 75063 7-ELEVEN #38912 3451 CROMPOD ROAD YORKTOWN HEIGHTS, NEW YORK 10598 FUELING SPECIFICATIONS		



Job#:	SEI-32507
Scale:	AS NOTED
Date:	08/24/21
Drawn By:	GJD
Checked By:	CGC

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SHEET:	G14.0
FUELING - USA	

# PERFORMANCE SPECIFICATION - CONT.

## SECTION IV TANK INSTALLATION - CONTINUED

### PART 3 - INSTALLATION - CONTINUED

- 3.5 PLUGS: ALL UNUSED PLUGS SHALL BE REMOVED. APPLY COMPATIBLE NON-HARDENING PIPE SEALANT TO INTERNAL BUSHING THREADS. PERMANENT METAL PLUGS SHALL BE INSTALLED AT ALL UNUSED OPENINGS.
- 3.6 THE PLUGS IN TANK OPENINGS WHICH ARE TO BE USED SHALL NOT BE OVER TIGHTENED AS THIS MAY CAUSE THE BUSHING TO UNSCREW WITH THE PLUG. CARE SHALL BE TAKEN NOT TO CROSS THREAD OR DAMAGE THE NON-METALLIC BUSHINGS WHEN REPLACING PLUGS OR INSTALLING REQUIRED TANK PIPING.
- 3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT IN TANK EXCAVATIONS, 7-ELEVEN'S LOCAL CONSTRUCTION ENGINEER MUST BE NOTIFIED.
  - 3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT BY WELL POINT SYSTEM(S) AND PROPERLY SIZED PUMP(S).
  - 3.7.2 ANCHOR STRAPS: DEAD MAN AS PER TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS. PLACE 6" FROM OUTSIDE VERTICAL LINE OF TANK(S) AS DENOTED ON DRAWINGS.
  - 3.7.3 TIE DOWNS: SUPPLIED BY TANK MANUFACTURER.
  - 3.7.4 TAKE-UP FIXTURE & TURNBUCKLE: TO REMOVE CABLE SLACK, UTILIZE THE TAKE-UP FIXTURE FOR 8" DIA. TANK: MIN SIZE 26" MAX SIZE 43". WEIGHT 16 LB.
  - 3.7.5 STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS.
  - 3.7.6 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF ASPHALT IMPREGNATED WITH WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL.
- 3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, UTILIZING LIFTING LUGS PROVIDED ON TANKS. TANKS SHALL NOT BE ROLLED, DROPPED OR WRAPPED WITH CHAINS. EQUIPMENT OF SUFFICIENT SIZE, DESIGN AND LIFT CAPACITY SHALL BE UTILIZED FOR SETTING OF TANKS. SHOULD TANKS BE BUMPED, DENTED, DROPPED OR MISHANDLED IN ANY WAY, INSTALLATION SHALL BE HALTED AND TANK MANUFACTURER'S REPRESENTATIVE IMMEDIATELY CONTACTED FOR RE-CERTIFICATION OF TANKS. CONTACT LOCAL CONSTRUCTION OFFICE OR SITE MANAGER IMMEDIATELY UPON NOTICE OF QUESTIONABLE HANDLING OF TANKS OR NOTABLE DAMAGE THERETO.
- 3.9 BACK FILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE, CAREFULLY BACK FILL ENTIRE EXCAVATION, HAND SHOVELING AND TAMPING ALONG BOTTOM OF TANK(S) SO THEY ARE EVENLY SUPPORTED AROUND BOTTOM. SPECIAL ATTENTION SHALL BE PAID TO BOTTOM QUARTER POINTS ELIMINATING ANY VOIDS IN FILL AT THESE POINTS. DO NOT DROP BACK FILL FROM HIGH DISTANCE ONTO TANKS. TAMP AS REQUIRED TO ACHIEVE ACCEPTABLE DENSITY. BACKFILL PLACEMENT PER MANUFACTURER INSTALLATION SPECIFICATIONS.
- 3.10 BALLASTING: IF GROUND WATER IS PRESENT, TANKS SHALL BE FILLED WITH BALLAST (WATER) TO AVOID SHIFTING MOVEMENT. COST OF WATER AND REMOVAL SHALL BE CONTRACTOR COST. DO NOT INSTALL SUBMERGIBLE PUMPS IN TANKS FILLED WITH WATER. DO NOT BALLAST TANKS ABOVE LEVEL OF BACKFILL.
- 3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE WATERS WITH DAMS, BERMS, OR OTHER MEANS PENDING COMPLETION OF INSTALLATION. EXCAVATION SHALL BE MARKED AT ALL TIMES WITH LIGHTED BARRICADES UNTIL INSTALLATION IS COMPLETE. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATION. DE-WATER AS REQUIRED TO MAINTAIN EXCAVATION AS DRY AS POSSIBLE.

## SECTION V CONCRETE

### PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

### PART 2 - PRODUCTS

- 2.1 MATERIALS:
  - 2.1.1 AIR ENTRAINING AGENT: ASTM C 260-60-T. "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL.
  - 2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT.
  - 2.1.3 AGGREGATES: CONFORM TO ASTM C-33.
  - 2.1.4 WATER: SHALL BE CLEAN AND POTABLE.
  - 2.1.5 SAND: CONFORM TO ASTM C-144.
  - 2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHERWISE) YIELD STRENGTH 60,000 PSI.
  - 2.1.7 ACCESSORIES INCLUDING BAR SUPPORTS, CHAIR SPACES, ETC., SHALL BE COLD DRAWN WIRE WITH HEIGHTS REQUIRED. BAR SUPPORTS FOR CONCRETE RESTING ON EARTH OR GRAVEL SHALL BE PRE CAST BRIQUETTES OR INDIVIDUAL HIGH CHAIRS NO. HCP WITH WELDED PLATES ON BOTTOM AS MANUFACTURED BY HOHMANN & BERNARD, INC.
  - 2.1.8 FORMS: CLEAN, STRAIGHT LUMBER OF MOISTURE RESISTANT PLYWOOD. KNOT HOLES, DEFORMATIONS, ETC., SHALL NOT BE ALLOWED.
  - 2.1.9 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-60-T. USE 1/2" THICK OR AS INDICATED ON DRAWINGS. TOP OF JOINT MATERIAL SHALL BE SET 1/2" BELOW TOP SURFACE OF SLAB. FILL VOID WITH GASOLINE RESISTANT SEALER.
  - 2.1.10 CALCIUM CHLORIDE: NOT PERMITTED.
- 2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH. ALL CONCRETE, UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE. NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN A 4" SLUMP. AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

## SECTION V CONCRETE - CONTINUED

### PART 3 - EXECUTION

- 3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS BY MEANS OF LINE AND GRADE STAKES AND SCREEDS.
- 3.2 FORM WORK: BUILD FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS. BRACE AND SECURE TO WITHSTAND PLACING OF CONCRETE AND MAINTAIN THEIR SHAPES AND POSITIONS. MAKE FORMS SUFFICIENTLY TIGHT AND SUBSTANTIALLY ASSEMBLED TO PREVENT BULGING OR LEAKAGE. ASSEMBLE FORMS IN SUCH A MANNER TO FACILITATE THEIR REMOVAL WITHOUT DAMAGE TO CONCRETE. FORMS SHALL BE IN OR NEAR NEW CONDITION; CLEAN, SMOOTH AND WITHOUT INDENTATIONS OR BENDS. INSTALL SLEEVES, MANHOLES, CAPS, BOXES AND POSTS IN PROPER LOCATIONS AND HEIGHTS. EXPANSION JOINTS SHALL CONSIST OF FILLER STRIPS INSTALLED WITH TOP AT ELEVATIONS OF FINISHED CONCRETE. NEATLY FINISH EDGES OF EXPOSED CONCRETE ALONG JOINTS WITH A SLIGHTLY ROUNDED EDGING TOOL.
- 3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL INDICATED ON DRAWING METAL REINFORCEMENT AT THE TIME CONCRETE IS PLACED, SHALL BE FREE FROM COATINGS WHICH WILL DESTROY OR REDUCE THE BOND. METAL REINFORCEMENT SHALL BE STORED SO AS TO PREVENT FREEZING FOR A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH STANDARDS OF ACI. METAL REINFORCEMENT SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. SPLICES IN ADJACENT BARS SHALL BE LAPPED 36 DIAMETERS AT CORNERS AND SPLICES, AS REQUIRED.
- 3.4 MIXING AND TRANSPORTING CONCRETE: CONCRETE SHALL BE READY MIXED AND SHALL MEET REQUIREMENTS OF ASTM C-94 FOR MIXING AND DELIVERY. FURNISH DUPLICATE DELIVERY TICKETS OF EACH TRUCK LOAD TO OWNER'S LOCAL CONSTRUCTION OFFICE WHEN REQUIRED. TICKETS SHALL SPECIFY STRENGTH, SLUMP, AGGREGATE SIZES, AIR ENTRAINMENT (IF ANY) AND BRAND OF CEMENT. NOTE AMOUNT OF WATER ADDED AT JOB.
- 3.5 PLACING CONCRETE:
  - 3.5.1 NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER'S LOCAL CONSTRUCTION OFFICE AT LEAST 48 HOURS BEFORE PLACING ANY CONCRETE. THE CONTRACTOR SHALL NOTIFY ALL TRADES AFFECTED BY CONCRETE PLACEMENT AT LEAST 24 HOURS BEFORE PLACING ANY CONCRETE IN ORDER THAT TRADES AFFECTED MAY INSTALL REQUIRED BLOCKING, SLEEVED, POCKETS, ETC.
  - 3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED.
  - 3.5.3 WETTING: THOROUGHLY WET FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE.
  - 3.5.4 PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614. MINIMUM CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO ACI 318. USE HANDLING EQUIPMENT AND METHODS TO INSURE A CONTINUOUS FLOW FROM MIXER TO PLACE OF DEPOSIT SPACE. TAMP AND MECHANICALLY VIBRATE FRESHLY PLACED CONCRETE TO COMPACT THOROUGHLY AND ELIMINATE VOIDS. DO NOT ALLOW FREE FALL OF CONCRETE TO EXCEED 5'.
- 3.6 FINISHING CONCRETE:
  - 3.6.1 SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION IN EXCESS OF 1/4" WHEN TESTED WITH A 10' STRAIGHTEDGE AT 3' INTERVALS IN BOTH DIRECTIONS. SCREED AND FLOAT CONCRETE FOR SLAB WITH STRAIGHT EDGES TO BRING SURFACE TO REQUIRED FINISHED LEVEL. WOOD FLOAT CONCRETE WHILE STILL GREEN TO A TRUE, EVEN SURFACE WITH NO COARSE AGGREGATE VISIBLE. AFTER SURFACE MOISTURE HAS DISAPPEARED, STEEL TROWEL SURFACE TO A SMOOTH, EVEN FINISH. FREE FROM BLEMISHES AND TROWEL MARKS. AFTER TROWELING, BRUSH SURFACE OF CONCRETE WITH BRISTLE BROOM TO RESULT IN A MEDIUM, UNIFORM, NON-SLIP TEXTURED SURFACE. STROKE CROSSWISE TO LENGTH.
- 3.7 CURING: UTMOST CARE SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTIVE CURE FOR ALL SLABS. DO NOT USE CALCIUM CHLORIDE. CURING METHODS SHALL CONFORM TO ACI STANDARD 605-99 AND ACI STANDARD 306-66.
- 3.8 REMOVAL OF FORMS: DOT NOT REMOVE FORMS UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS.
- 3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER.
- 3.10 TEMPERATURE:
  - 3.10.1 COLD WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 DEGREES FAHRENHEIT, MAINTAIN TEMPERATURE OF CONCRETE BETWEEN 50 AND 70 DEGREES FAHRENHEIT FOR MINIMUM OF 72 HOURS.
  - 3.10.2 HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKS, SHADING, FOG SPRAY, SPRINKLING, PONDING OR WET COVERING IN ADVANCE OF PLACEMENT. TAKE SUCH PROTECTIVE MEASURES AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.
- 3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER'S CONSTRUCTION MANAGER. THE OWNER SHALL PAY FOR ALL CONCRETE TESTING. COMPACTION TESTS SHALL BE REQUIRED PRIOR TO PLACEMENT OF ANY CONCRETE ON GRADE. CONTRACT OWNER'S ENGINEERING SERVICES FOR COMPACTION TESTING TESTS. TESTS WILL BE PAID FOR BY OWNER.
- 3.12 THICKNESS:
  - 3.12.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH #3 REINFORCING BARS AT 12" OC EACH WAY ON 3" SADDLES (CHAIRS). ADDITIONAL REINFORCING AROUND MANHOLES IN UPPER PORTION OF THE TANK SLAB SHALL BE ON 5" SADDLES (CHAIRS).
  - 3.12.2 CANOPY SLABS SHALL BE 6" CONCRETE. REINFORCEMENT SHALL BE #3'S AT 18" OC EACH WAY. REINFORCEMENT SHALL BE ON 2" SADDLES (CHAIRS).
- 3.13 CANOPY FOOTINGS: CANOPY FOOTINGS SHALL BE INSTALLED BY FUEL CONTRACTOR AS PER SHOP DRAWINGS SUPPLIED BY THE CANOPY COMPANY. ALL MATERIALS SHALL BE EQUAL TO OR BETTER THAN SPECIFIED ELSEWHERE IN THIS SECTION.
- 3.14 PROTECTION OF ALL CONCRETE SURFACES: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT ALL CONCRETE SURFACES AGAINST ANY DAMAGE WHATSOEVER, INCLUDING EXCESSIVE LOADING, SHIPPING, CRACKING, STAINING, PAINT SPLATTERS, ETC. THE OWNER EXPECTS EXPOSED CONCRETE SURFACES TO BE CLEAN AND OF UNIFORM COLOR AND TEXTURE AT COMPLETION OF THE PROJECT. REPLACE ANY CONCRETE DAMAGE DURING CONSTRUCTION.
- 3.15 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS.

## SECTION VI PIPING

### PART 1 - GENERAL

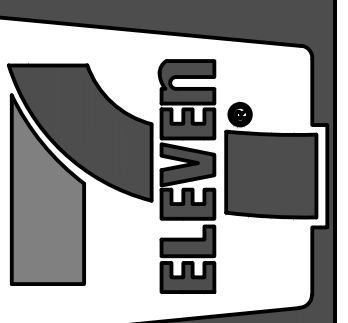
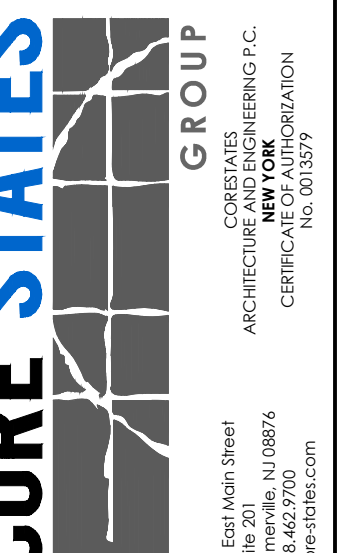

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR INCIDENTAL TO A COMPLETE PIPING SYSTEM FOR A GASOLINE INSTALLATION.

### PART 2 - PRODUCTS

- 2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE DOUBLE WALL RIGID FIBERGLASS PIPING AS SPECIFIED BY 7-ELEVEN. PIPING MUST SLOPE 1/8" PER FOOT MINIMUM FROM DISPENSER ISLAND TO STP SUMP.
- 2.2 VENT PIPING: PIPING SHALL BE FIBERGLASS PIPE. VENT LINE RISERS SHALL BE BLACK IRON PIPE AND EXTEND 5' ABOVE ADJACENT STRUCTURE OR 12'-0" ABOVE FINISHED GRADE. VENT LINE RISERS SHALL NOT BE INSTALLED ON BUILDING UNLESS APPROVED IN WRITING.
- 2.3 STAGE II VAPOR RECOVER PIPING: PIPING SHALL BE FIBERGLASS. PIPING MUST SLOPE 1/8" PER FOOT MINIMUM FROM DISPENSER ISLAND TO TANK.
- 2.4 BACK FILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S SPECIFICATIONS.

### PART 3 - INSTALLATION

- 3.1 ALL PRODUCT PIPING AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES.
- 3.2 THE DRAWINGS ARE DIAGRAMMATIC AND THE FINAL ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS. THE CHARACTERISTICS OF THE MATERIALS USED, AND THE INSTRUCTIONS OF THE CONSTRUCTION MANAGER, VERIFY ALL DIMENSIONS IN THE FIELD. ACCESS AND CLEARANCES MUST BE PROVIDED AND MAINTAINED FOR THE PROPER OPERATION, MAINTENANCE, SERVICE AND REPAIR OF THE WORK.
- 3.3 LOCATE, IDENTIFY AND MARK EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK PROCEDURES.
- 3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH THE OWNER AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES IN SATISFACTORY CONDITION.
- 3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, VAPOR RECOVERY ADAPTERS AND AUTO GAUGING ADAPTATIONS SHALL BE A 4" DIAMETER PIPE.
- 3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS. EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER, AND THE ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICE HAS BEEN PROVIDED.
- 3.7 CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA. DO NOT USE TRENCH EXCAVATIONS FOR SITE UTILITIES AS TEMPORARY DRAINAGE DITCHES. REMOVE ALL TRASH, DEBRIS AND FOREIGN MATERIAL FROM TRENCHES PRIOR TO PLACING PIPING MATERIAL.
- 3.8 ALL PRODUCT, VAPOR RECOVERY AND VENT LINES SHALL SLOPE UP FROM TANKS. A MINIMUM OF 2" IN 8' (1/8" /FT) WITH NO SAG OR TRAPS. LINES SHALL BE IN TRENCHES WITH A MINIMUM OF 6" OF BACK FILL MATERIAL BELOW AND ON EITHER SIDE AND A MINIMUM OF 18" OF BACK FILL MATERIAL ABOVE.
- 3.9 SUBMERGED PUMP, FILL PIPE, AUTO GAUGING ADAPTERS AND VAPOR RECOVERY ADAPTER SHALL BE LOCATED AT TANK OPENINGS AS SHOWN ON DRAWINGS.
- 3.10 FILL PIPE SHALL HAVE OVER SPILL CONTAINMENT SYSTEM INSTALLED AS SHOWN ON DRAWINGS.
- 3.11 FILL PIPE SHALL HAVE SUBMERGED FILL TUBE. FILL PIPE AND VAPOR RECOVERY RISER SHALL BE CUT TO THE PROPER LENGTH SO THAT FINISHED HUB HEIGHT WILL BE WITHIN 5" (+ OR - 1") OF THE TOP OF THE MANHOLE.
- 3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED AS SHOWN IN DRAWINGS.
- 3.13 REMOTE PUMP SHEAR VALVES SHALL BE INSTALLED ON THE PRODUCT LINES UNDER EACH DISPENSER AND SECURED TO THE DISPENSER BOX. THESE VALVES MUST BE INSTALLED WITH THE SHEAR SECTION FLUSH AT THE TOP OF THE DISPENSER SUMP, AS DENOTED ON PLANS.
- 3.14 AFTER ALL PIPING IS COMPLETE AND PRIOR TO BACK FILLING, ALL PIPING INCLUDING VENT LINES SHALL BE ISOLATED FROM THE TANK AND TESTED PER MANUFACTURER'S TESTING INSTRUCTIONS.
- 3.15 IF SUBMERGED, PUMP RISER IS TO BE LENGTHENED, THE PROPER 4" THIN WALL RISER AS PRODUCED BY MANUFACTURER SHALL BE USED.
- 3.16 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST. REFER TO LIST OF MATERIALS SUPPLIED BY OWNER.
- 3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED. WELLS ARE TO BE POSITIONED IN EXCAVATION HOLE PRIOR TO PLACING BEDDING MATERIAL AND SUPPORTED TO REMAIN VERTICAL DURING BACK FILL OPERATIONS. BOTTOM OF OBSERVATION WELL(S) SHALL BE 12" MINIMUM BELOW THE BOTTOM OF TANK EXCAVATION PIT. TOP OF PIPE TO TERMINATE IN 12" DIAMETER OBSERVATION BOX. SLOTTED SAMPLE WELL MATERIAL SHALL BE FURNISHED BY CONTRACTOR. LOCKING CAPS AND KEYS ALIKE PROVIDED TO 7-ELEVEN, INC. REPRESENTATIVE.
- 3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, & NFPA 30A AUTOMOBILE AND MARINE SERVICE STATION CODE. IS BY REFERENCE MADE A PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH
- 3.19 STARTUP: PRIOR TO STARTUP AND CHECK-OUT OF SYSTEM, PRODUCT LINES SHALL PASS HYDROSTATIC LINE TEST. ALL SITE IMPROVEMENTS, INCLUDING PAVEMENTS AND UTILITIES, SHALL BE COMPLETED PRIOR TO THIS TEST.
- 3.20 INSPECTIONS: PIPING INSPECTION SHALL BE PERFORMED BY 7-ELEVEN, INC.'S APPOINTED REPRESENTATIVE.
- 3.21 CLEANUP: CLEANUP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

Description	
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Proto 12-01-2020	
7-ELEVEN, INC. 3200 HACKBERRY ROAD, IRVING TEXAS 75063	
7-ELEVEN #38912 3451 CROMPOUND ROAD YORKTOWN HEIGHTS, NEW YORK 10598	
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# PERFORMANCE SPECIFICATION - CONT.

## SECTION VII ELECTRICAL WORK

### PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:
- 1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANEL BOARD OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC.
  - 1.1.2 CONDUIT AND WIRING SYSTEM FOR INTERCOM.
  - 1.1.3 WIRING SYSTEM TO SERVE ALL ELECTRIC-USING DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT.
  - 1.1.4 POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT.
  - 1.1.5 ALL CONDUITS, CONNECTIONS, WIRE AND STUB-OUTS FOR FASCIA SIGN(S) (WHEN SHOWN), CANOPY LIGHTS, PRICE SIGN(S) AND CANOPY MOUNTED FLOOD LIGHTS.
  - 1.1.6 CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS.
  - 1.1.7 ALL TRENCHING, EXCAVATIONS AND BACK FILL AS REQUIRED IN CONJUNCTION WITH ELECTRICAL WORK.
  - 1.1.8 INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRIC CODE.
- 1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA, NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY. REPORT TO OWNER IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
- 1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.
- 1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO ENTIRE INSTALLATION SO THAT THE ENTIRE PROJECT CAN BE COMPLETED PER CONSTRUCTION SCHEDULE.
- 1.5 CUTTING AND REPAIRING: PROVIDE ALL CUTTING, CHANNELING, PATCHING, ETC. AS NECESSARY FOR ELECTRICAL WORK UNDER DIRECTION OF GENERAL CONTRACTOR. WORK FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. MAKE REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR THE ELECTRICAL SUBCONTRACTOR.

### PART 2 - PRODUCTS

- 2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION WITH DYMO TAPE OR EQUAL FOR ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCH GEAR, PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.
- 2.2 LIGHT FIXTURES: TO BE PROVIDED BY OWNER.
- 2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE WITH THE SPECIFIC APPLICATION OF LOCATION INDICATED.
- 2.3.1 STP POWER CONDUITS MUST BE RUN IN SEPARATE RACEWAY. ENTIRE WIRING RUN MUST BE IN RIGID PVC COATED GALVANIZED STEEL CONDUIT. USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS. NO PVC OR RNC CONDUIT ALLOWED.  
  
USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS AT FIBERGLASS TANK SUMPS OR WHERE BRAVO F-17-RR OR F-10-RR ENTRY FITTINGS ARE CALLED OUT FOR FIRST 10' OF RUN. TRANSITION TO RIGID NONMETALLIC CONDUIT (RNC) WHERE ALLOWED BY JURISDICTION.  
  
RUN PVC COATED GALVANIZED STEEL FOR WIRING RUNS EXPOSED TO THE WEATHER; FOR ENCLOSING MAIN GROUNDING CONDUCTOR: WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED.  
  
WITH THE EXCEPTION OF THE FIRST 10' AND THE LAST 10' OF THE UNDERGROUND RUN AND ONLY WHERE AHJ ALLOWS, RIGID NONMETALLIC CONDUIT (RNC) IS ALLOWED FOR UNDERGROUND RUNS IF CONDUIT IS BURIED AT A MINIMUM OF 2'.
  - 2.3.2 SEAL-OFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, SUBMERSIBLE PUMPS AND N.E.C. CLASSIFIED AREAS (REF G9.1).
  - 2.3.3 N.E.C. APPROVED WEATHER PROOF WIRE PULL BOX.
- 2.4 CONDUCTORS:
- 2.4.1 FURNISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED. MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (60 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING; TYPE THN OR THWN-2 (90 DEGREES CENTIGRADE) FOR SUPPLY CONNECTIONS TO LIGHT FIXTURES. INSTALL PER COLOR CODE OF NEC.
  - 2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.  
  
VARIABLE SPEED PUMP CABLE:  
- THWN-2 #12 AWG 4 CONDUCTOR 600V SHIELDED, GAS/OIL RESISTANT".  
  
DATA COMMUNICATION CABLE:  
- SHIELDED WIRE MUST NOT BE USED:  
- 2 WIRE TWISTED PAIR (UTP) W/ 10-12 TWISTS PER FOOT.  
- WIRING IS STRANDED ANNEALED COPPER TINNED WITH 18 AWG MINIMUM REQUIRED FOR RUNS UP TO 1000 FEET OR 14 AWG FOR RUNS UP TO 2600 FEET. DO NOT DAISY CHAIN COMMUNICATION WIRING.  
- INSULATION SPEC IS 300V, PVC INSULATION, TYPE TFFN OR MTW, UL APPROVED GASOLINE AND OIL RESISTANT.  
- WCV7931AFEQ CAT 6 FEP/FEP CABLE:  
- WIRING IS 23AWG SOLID COPPER. DO NOT DAISY CHAIN COMMUNICATION WIRING  
- INSULATION SPEC IS 150V, PVC INSULATION, TYPE FEP TEFLON, UL APPROVED GASOLINE AND OIL RESISTANT.
- 2.5 SPLICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES. PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES WITH OVERALL NYLON INSULATORS FOR CONDUCTORS. CONNECTORS SHALL BE 3M "SCOTCHLOK", BUCHANAN SPLICE CAPS WITH INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL.
- 2.6 PANEL BOARDS:
- 2.6.1 BRANCH CIRCUIT PANEL BOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANEL BOARDS WITH THERMAL MAGNETIC, MOLDED CASE, "SQUARE D" TYPE NLAB OR APPROVED EQUAL, WITH PLUG-IN CIRCUIT BREAKERS, "SQUARE D" TYPE NLQT. PROVIDE GROUNDING TERMINAL BLOCK IN EACH PANELBOARD. SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.
  - 2.6.2 SUBSTITUTES: DISTRIBUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY IN ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY G.E., CUTLER-HAMMER, FEDERAL PACIFIC, ITE, SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES ONLY WHEN APPROVED IN WRITING.

## SECTION VII ELECTRICAL WORK - CONTINUED

### PART 3 - EXECUTION

- 3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOKUPS AND MISCELLANEOUS PROCEDURES WITH ALL OTHER TRADES THAT WILL BE INVOLVED TO EXPEDITE THE COMPLETION OF THE CONTRACT. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
- 3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR ALL WIRING AND CONDUCTORS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOW REQUIREMENTS:
- 3.2.1 CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER'S CONSTRUCTION MANAGER IN WRITING.
  - 3.2.2 ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED; CONDUITS AT TANKS SHALL NOT CROSS OVER TANKS. PLACE CONDUIT THROUGH EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.
  - 3.2.3 CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN.
  - 3.2.4 FLASH AND COUNTER FLASH CONDUITS WHICH PENETRATE THE CANOPY DECKING.
  - 3.2.5 PROVIDE SEAL-OFF FITTINGS WHERE CONDUIT RUNS ENTER OR LEAVE HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.
  - 3.2.6 FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM, GAS PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON GASOLINE DRAWINGS. ADDITIONAL CONDUITS AND CIRCUITS WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.
- 3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS BE REQUIRED, VERIFY THROUGH LOCAL CONSTRUCTION OFFICE AND PROVIDE AS REQUIRED.
- 3.4 SIGNS AND LIGHTED FASCIA: VERIFY FINAL LOCATIONS AND TYPE WITH OWNER. FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.
- 3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANEL BOARDS, SWITCH GEAR, ETC., TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER CRAFTS AND TRADES SO THAT ELECTRICAL EQUIPMENT WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR IMPERMEABLE. PROVIDE WEATHERPROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.
- 3.6 ISOLATED GROUND: IT IS MANDATORY THAT GASOLINE EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE PROVIDED WITH SAME. MINIMUM CIRCUITS REQUIRED, BUT NOT LIMITED TO, SHALL BE: INTERCOM, GAS CONSOLE AND GASOLINE TANK MONITORING SYSTEM.
- 3.7 EXCAVATION AND BACK FILLING: ALL EXCAVATION AND BACK FILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.
- 3.8 OPERATING AND ACCEPTANCE TESTS:
- 3.8.1 CONDUCT OPERATING TEST ON ENTIRE ELECTRICAL INSTALLATION; ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO STARTUP AND FINAL CHECK-OUT OF SYSTEM COVERED ELSEWHERE. DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER'S SPECIFIED REPRESENTATIVE. ANY DAMAGE TO OWNER'S EQUIPMENT DUE TO DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THAT SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.
  - 3.8.2 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.
  - 3.8.3 TEST GROUND: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.
  - 3.8.4 INSPECT ALL PANELBOARDS. ALL CONNECTIONS MUST BE TIGHT AND SECURE.
- 3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER'S CONSTRUCTION MANAGER WITH ONE SET OF MARKED-UP PRINTS (HARDCOPY) AND ALSO IN AUTO CAD 2004 COMPATIBLE DRAWING FILE FORMAT (.DWG) SHOWING "AS-BUILT" INSTALLATION.
- 3.10 FINAL ACCEPTANCE: UPON COMPLETION OF WORK, PRESENT CERTIFICATE OF APPROVAL OF LOCATION OR GOVERNING INSPECTION AUTHORITY.
- 3.11 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

## SECTION VIII PAINTING

### PART 1 GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETION OF ALL PAINTING OF SURFACES COMPLETE, INCLUDING PAINTING OF THE FOLLOWING SURFACES:
- 1.1.1 MISCELLANEOUS METAL, DOWNSPOUTS, COLUMNS, POSTS, ISLAND FORMS, VENT RISERS, MANHOLE COVERS AND ELECTRICAL CONDUITS.
- 1.2 PAINTING DOES NOT INCLUDE:
- 1.2.1 PAINTING CANOPY SOFFITS.
  - 1.2.2 PAINTING LIGHT FIXTURES.
  - 1.2.3 PAINTING FUEL EQUIPMENT.
- 1.3 COLOR SCHEDULE: COLOR OF PAINTS SHALL BE AS LISTED IN THE 7-ELEVEN STORE STANDARDS MANUAL.

## SECTION VIII CONTINUED

### PART 2 - PRODUCTS

- 2.1 PAINT MANUFACTURERS AND PRODUCTS: PAINTING SYSTEM AS SPECIFIED WITHIN THE 7-ELEVEN STORE STANDARDS MANUAL.
- 2.2 PAINTING COATS AND PRODUCTS: SUPPLIED BY CONTRACTOR
- 2.2.1 PAINT ALL MANHOLES COVERS AND 4" SURROUNDING CONCRETE, INSIDE AND OUT, IN ACCORDANCE WITH STANDARD INDUSTRY COLOR CODE AS SHOWN:  
  
API COLOR CODES:  
  
OBSERVATION WELL UNLEADED REGULAR UNLEADED PREMIUM UNLEADED REGULAR W/EXTENDER UNLEADED PREMIUM W/EXTENDER DIESEL VAPOR RECOVERY KEROSENE INTERSTITIAL  
  
PROVIDED BY MANUFACTURER WHITE W/BLACK CROSS RED W/WHITE CROSS WHITE W/BLACK CROSS & BLACK BAND RED W/WHITE CROSS & WHITE BAND SOLID YELLOW SOLID ORANGE SOLID BROWN BLACK  
  
2.2.2 PAINT FASCIA SIGN FRAMES. PAINT GLOSSY WHITE - 2 COATS.

### PART 3 - EXECUTION

- 3.1 PROTECTION: COVER ENTIRE CONCRETE SURFACES. NO PAINT OR SOLVENT SHALL BE ALLOWED TO COME IN CONTACT WITH CONCRETE SURFACES. WHERE IT BECOMES NECESSARY, IN ORDER TO EXECUTE HIS OWN WORK, FOR PAINTER TO REMOVE COVERINGS, PLATES, ETC., PLACED BY OTHER CONTRACTORS IN ANY BRANCH OF THE WORK, HE SHALL REPLACE SAME IN PROPER MANNER. IN SITUATIONS WHERE SAID COVERINGS, PLATES, ETC., CANNOT BE READILY REMOVED, PAINTER SHALL PROTECT THE WORK IN SOME OTHER SATISFACTORY MANNER. OILY RAGS AND WASTE MUST BE REMOVED EVERY NIGHT. UNDER NO CIRCUMSTANCES SHALL THEY BE ALLOWED TO ACCUMULATE. PAINTING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE WORK OF OTHER SUBCONTRACTORS AND SHALL REPAIR OR REPLACE AS NECESSARY TO THE SATISFACTION OF THE OWNER.
- 3.2 PREPARATION OF SURFACES: INSPECT ALL SURFACES TO BE PAINTED. REPORT ANY DISCREPANCIES TO THE CONTRACTOR PRIOR TO START OF WORK. STARTING OF PAINT APPLICATION SHALL CONSTITUTE ACCEPTANCE OF SURFACES AS SUITABLE FOR THE RECEPTION OF PAINT APPLICATION. ALL SURFACES SHALL BE CLEAN AND DRY, BETWEEN 50 AND 90 DEGREES FAHRENHEIT AT TIME OF PAINT APPLICATION. CLEAN METAL OF MILL SCALE, RUST, OIL, GREASE AND FOREIGN MATTER. CLEAN GALVANIZED METAL ACCORDING TO SSPC-SP 1-63 SOLVENT CLEANING. PROTECT ADJACENT AND FINISHED WORK FROM PAINT.
- 3.3 APPLICATION OF PAINT: DO NOT THIN, ADULTERATE OR CHANGE MATERIALS EXCEPT AS RECOMMENDED BY MANUFACTURER. EMPLOY ONLY SKILLED MECHANICS FOR WORK. ALL PAINTING SHALL BE BRUSHED, SPRAYED OR ROLLED EVENLY FOR THOROUGH COATS WITHOUT RUNS, SAGS OR OTHER BLEMISHES. ALLOW EACH COAT TO DRY BEFORE APPLYING SUBSEQUENT COATS. ALL SURFACES TO RECEIVE A MINIMUM OF 2 COATS AS NECESSARY TO ACHIEVE AN APPROVED FINISH. APPLICATION OF PAINT, ETC., SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS.
- 3.4 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

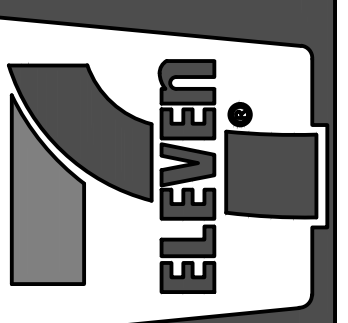
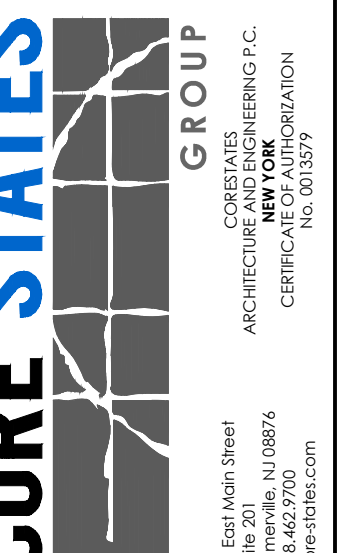

## SECTION IX CANOPIES

### PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING AND INSTALLATION OF ALL ITEMS FOR THE INSTALLATION OF A COMPLETE GASOLINE CANOPY INCLUDING:
- 1.1.1 COMPLETE FABRICATION DRAWINGS INCLUDING FOOTINGS DESIGN.
  - 1.1.2 COMPLETE ABOVE GROUND STRUCTURAL SUPPORT SYSTEM.
  - 1.1.3 STEEL ROOF DECK AND GUTTER, 20 GA WHITE EMBOSSED.
  - 1.1.4 ROOF BRACING.
  - 1.1.5 CAP FLASHING.
  - 1.1.6 DOWN SPOUTS - INTERNAL INSIDE COLUMNS.
  - 1.1.7 PERMITS AND INSPECTIONS DONE BY OTHERS.
  - 1.1.8 INSTALLATION AND FRAMING FOR OWNER SUPPLIED FASCIA SIGNS (ELECTRICAL BY OTHERS).
  - 1.1.9 INSTALLATION AND FRAMING FOR FASCIA MATERIAL AS PER OWNER SPECIFICATIONS.

### PART 2 - PRODUCTS

- 2.1 EMBOSSED ROOF STEEL DECK: ROOF STEEL DECK SHALL BE 2 1/4" MINIMUM DEEP, 20 GAUGE HIGH REFLECTIVE WHITE STEEL WITH MINIMUM SECTION MODULES OF 0.25 IN 1/4 3 MOMENT OF INERTIA OF 0.030 IN 1/4 4. IN CERTAIN AREAS, ROOF DECK WILL BE ALUMINUM. VERIFY WITH LOCAL CONSTRUCTION MANAGER.
- 2.2 STRUCTURAL STEEL:
- 2.2.1 ALL STRUCTURAL STEEL TO BE A.S.T.M. A-36 AND SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS OF A.I.S.C. AND WITH THE A.I.S.C. CODE OF STANDARD PRACTICE (LATEST EDITION).
  - 2.2.2 STRUCTURAL BOLTS SHALL CONFORM TO THE STANDARD SPECIFICATION A.S.T.M. A-307 AND SHALL BE PROVIDED WITH WASHERS UNDER THE NUTS.
  - 2.2.3 ALL OTHER BOLTS SHALL BE A-307 AND SHALL CONFORM TO A.S.T.M. STANDARDS, WITH WASHER REQUIRED.
  - 2.2.4 ALL HIGH STRENGTH BOLTS SHALL BE TORQUED TO PROVIDE A MINIMUM TENSION IN BOLT OF 90% OF MINIMUM PROOF LOAD OF THE BOLT.
  - 2.2.5 TUBE COLUMNS SHALL COMPLY WITH A-500, GRADE B.
  - 2.2.6 ALL TUBE COLUMNS SHALL BE 46 KSI STEEL. 2.2.7 ALL WELDING SHALL BE WITH E70XX ELECTRODES AND BE ACCOMPLISHED BY CERTIFIED WELDERS.

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# PERFORMANCE SPECIFICATION - CONT.

## SECTION IX CANOPIES - CONTINUED

### PART 2 - EXECUTION

- 2.3 FASCIA:
- 2.3.1 VERTICAL SUPPORTS SHALL BE DESIGNED AND SPACED PER ENGINEERED (DESIGNED TO LOCAL CODES) STRUCTURAL DRAWINGS SUPPLIED BY CANOPY MANUFACTURER. SCREWS FOR FASCIA SHALL BE CARBON STEEL CADMIUM PLATED OR GALVANIZED - SIZE AS REQUIRED.
- 2.3.2 REFER TO PROJECT DRAWINGS FOR FASCIA MATERIAL AND INSTALLATION.
- 2.3.3 MATERIAL SHALL BE ONE OF THE FOLLOWING:
- A. PRE FINISHED METAL FASCIA SYSTEM.
- B. PRE FINISHED FASCIA MATERIAL AS SELECTED.

### PART 3 - GENERAL

- 3.1 FABRICATION DRAWINGS:
- 3.1.1 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEERED AND STAMPED SHOP DRAWINGS FOR OVERHEAD STRUCTURE AND FOUNDATION SYSTEMS.
- 3.1.2 DRAWINGS SHALL SHOW PROJECT LOCATION AND ADDRESS.
- 3.1.3 ORIGINAL ENGINEER'S STAMP FOR APPROPRIATE STATE SHALL BE AFFIXED TO EACH PAGE OF DRAWINGS.
- 3.1.4 SHOP DRAWINGS SHALL SPECIFICALLY CALL OUT SOILS REPORT NUMBER AND DATE FOR WHICH CANOPY FOOTINGS WERE DESIGNED.
- 3.1.5 SHOP DRAWINGS SHALL SPECIFICALLY CALL OUT SIZE, WEIGHT, TYPE AND NUMBER OF ALL STRUCTURAL MEMBERS.
- 3.1.6 ALL DESIGN LOADS SHALL COMPLY WITH CURRENT BUILDING CODES AND LOCAL BUILDING DEPARTMENT REQUIRED LOADINGS, WHICHEVER IS MOST STRINGENT. MINIMUM DESIGN LOADS SHALL BE CONSIDERED TO BE: WIND 100#, LIVE 35#, UPLIFT 35# AND DEAD LOAD 35# OR AS LOCAL STRUCTURAL DESIGN DICTATES. IF APPLICATION IS SUBJECT TO HIGH ALTITUDE (SNOW) LOADING, DESIGN SHALL BE ADJUSTED TO COMPLY ACCORDINGLY.
- 3.1.7 DEFLECTION OF ALL STRUCTURAL MEMBERS SHALL BE LIMITED TO SPAN/180 FOR L.L. ONLY.
- 3.1.8 ATTACH DECK STRUCTURAL SUPPORTS PER ENGINEERED DRAWINGS.
- 3.1.9 ROOF DECK SHALL BE AN ICC-ES APPROVED DIAPHRAGM DECK AND ATTACHED IN A MANNER THAT COULD BE CONSIDERED A DIAPHRAGM. AN ALTERNATE TO THIS IS 1/2" DIAMETER STEEL ROD DIAGONAL X-BRACING WITH TURNBUCKLES. LAYOUT OF ROD BRACING AND CONNECTIONS TO STRUCTURAL MEMBERS SHALL BE APPROVED BY STRUCTURAL ENGINEER.
- 3.1.10 CONCRETE FOOTINGS SHALL BE MADE WITH STONE AGGREGATE AND SHALL HAVE A COMPRESSIVE STRENGTH TO A MINIMUM 3000 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING.
- 3.1.11 ALL FOUNDATION METAL REINFORCEMENT SHALL BE OF FORMED TYPE BARS (EXCEPT #2 BARS) AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATION A.S.T.M. 615 GRADE 40.
- 3.1.12 THE SHOP DRAWINGS SHALL EXPLICITLY SHOW LOCATION OF DOWN SPOUTS, INTERIOR PVC DRAINS IN WARM WEATHER AREAS, ETC., AS RELATED TO ANY AND ALL UTILITIES AND/OR PIPING AT COLUMN LOCATIONS. ROOF DRAINS AND LEADERS SHALL BE DIRECTED DOWN THE INTERIOR CANOPY COLUMN EXITING SIDE OF ISLAND LEVEL OR ABOVE FINISH GRADE OF CONCRETE SIDE PAD ON DOWNHILL SIDE OF ISLAND.
- 3.1.13 INCLUDE IN DESIGN PROVISION FOR OVERFLOW DEVICE AT OPPOSITE CORNERS OF CANOPY.
- 3.1.14 CONSTRUCTION NOT SPECIFICALLY INDICATED SHALL BE ACCOMPLISHED PER MINIMUM REQUIREMENTS OF THE UNIFORM BUILDING CODE, LATEST EDITION.
- 3.1.15 IF THERE ARE ANY CONFLICTS BETWEEN LINES ON DRAWINGS AND GENERAL NOTES OR WITH SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS GOVERN.
- 3.1.16 ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS SHALL BE APPROVED BY 7-ELEVEN, INC.'S CONSTRUCTION REPRESENTATIVE.
- 3.1.17 FABRICATION DRAWINGS SHALL BE DELIVERED TO APPLICABLE CONSTRUCTION OFFICE A MINIMUM OF 4 WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NO WORK SHALL COMMENCE PRIOR TO APPROVAL OF DRAWINGS BY 7-ELEVEN, INC.'S CONSTRUCTION REPRESENTATIVE.

## SECTION IX CANOPIES - CONTINUED

### PART 3 - GENERAL - CONTINUED

- 3.2 EXECUTION:
- 3.2.1 COORDINATE DELIVERY AND INSTALLATION WITH FUEL CONTRACTOR THROUGH LOCAL CONSTRUCTION OFFICE. MATERIALS SHALL BE STORED AT POSITION AS INDICATED BY FUEL CONTRACTOR.
- 3.2.2 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FOOTING ANCHOR BOLTS AND TEMPLATE FOR DELIVERY TO FUEL CONTRACTOR 2 WEEKS PRIOR TO INSTALLATION. SIZE IN ACCORDANCE WITH SHOP DRAWINGS AND IN ACCORDANCE WITH FUEL CONTRACTOR'S SCHEDULE OF CONSTRUCTION.
- 3.2.3 FOOTINGS FOR CANOPY AND PLACEMENT OF ANCHOR BOLTS SHALL BE PERFORMED BY FUEL CONTRACTOR AS PER APPROVED SHOP DRAWINGS. TYPE OF CONCRETE SHALL BE AS PER SHOP DRAWINGS. TYPE, SIZE, AND PLACEMENT OF ALL REINFORCED STEEL SHALL BE AS PER SHOP DRAWINGS.
- 3.2.4 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND NOTIFY 7-ELEVEN, INC.'S CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES FOUND. REFER TO SITE PLAN FOR SIZE, TYPE AND PLACEMENT OF CANOPY
- 3.2.5 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR BEING PROPERLY LICENSED IN LOCAL INSTALLATION AS WELL AS PROVIDING OWN PERMITS AS MAY BE REQUIRED. A COPY OF THE PERMIT MUST BE ON FILE IN THE LOCAL CONSTRUCTION OFFICE PRIOR TO COMMENCING WORK.
- 3.2.6 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION OFFICE WITH ACCEPTABLE INSURANCE AS REQUIRED PER 7-ELEVEN, INC. INSURANCE SPECIFICATIONS AND STANDARD CONTRACT FOR CONSTRUCTION. INSURANCE SHALL BE IN EFFECT FOR DURATION OF WORK.
- 3.2.7 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL WORK OF OTHER CONTRACTORS ALREADY IN PLACE, AS MAY BE REQUIRED.
- 3.2.8 CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND OBTAINING APPROVAL OF FUEL CONTRACTOR PRIOR TO PLACING OF ANY HEAVY EQUIPMENT ON TOP OF CONCRETE WORK ALREADY IN PLACE.
- 3.2.9 ALL FOOTINGS SHALL BE ON FIRM UNDISTURBED SOILS OR FILL COMPACTED TO 95% MAXIMUM DENSITY BASED ON A.S.T.M. D 1557-70. IF ANY POOR SOIL CONDITION IS DISCOVERED DURING EXCAVATION, THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR SOIL BEARING VERIFICATION.
- 3.2.10 SUPPORTING COLUMNS SHALL BE PLACED AS PER 7-ELEVEN, INC. FUEL PLANS AND AS PER APPLICABLE SITE PLAN.
- 3.2.11 CANOPY SUPPORT COLUMNS SHALL BE CAPPED AT TOP.
- 3.2.12 ALL MATERIALS SHALL BE ALIGNED TRUE AND FLAT AND ALL PLANES SHALL BE FLAT, TRUE TO ESTABLISHED LINES WITH ALL SOFFITS BEING LEVEL AND VERTICAL WALLS CORRECT AND ACCEPTABLE. PARAPET FASCIA SHALL BE VERTICAL AND PLUMB. ALL INTERSECTIONS SHALL BE TRUE AND STRAIGHTEDGE LINES. MATERIALS SHALL BE LEFT IN ACCEPTABLE CONDITION TO BE PAINTED BY OTHERS. ALL METAL SHALL BE FREE OF DEBRIS AS MAY BE REQUIRED FOR FINAL PAINTING/FINISHING.
- 3.2.13 FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR NON-SHRINK GROUT BENEATH BASE PLATE AND POURING OF CONCRETE AROUND CANOPY COLUMNS, COVERING ANCHOR BOLTS AS MAY BE REQUIRED.
- 3.2.14 CANOPY CONTRACTOR SHALL LEAVE ALL EXPOSED STRUCTURAL STEEL FREE OF DEBRIS, PRIMED AND READY FOR FINAL PAINTING BY FUEL CONTRACTOR.
- 3.3 RESPONSIBILITIES OF FUEL CONTRACTOR:
- 3.3.1 SHALL BE RESPONSIBLE FOR A MINIMUM OF 30 DAY NOTIFICATION OF DATE WHEN SITE WILL BE READY FOR INSTALLATION OF GASOLINE CANOPY.
- 3.3.2 UPON AGREED DATE BETWEEN FUEL CONTRACTOR AND CANOPY CONTRACTOR, THE SITE SHALL BE FREE OF MATERIAL, MOVABLE EQUIPMENT AND DEBRIS, LEVEL AND IN PROPER CONDITION FOR CANOPY INSTALLATION. FUEL CONTRACTOR SHALL PERFORM SITE WORK AS MAY BE REQUIRED TO COMPLY.
- 3.3.3 FUEL CONTRACTOR SHALL NOT INSTALL GASOLINE DISPENSERS PRIOR TO CANOPY ERECTION, UNLESS AGREED UPON IN WRITING BETWEEN THE CANOPY CONTRACTOR AND FUEL CONTRACTOR.
- 3.3.4 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CANOPY FOOTINGS AS DESIGNED IN SHOP DRAWINGS PROVIDED BY CANOPY MANUFACTURER, PROVIDING ALL STEEL, ETC., (WITH THE EXCEPTION OF ANCHOR BOLTS TO BE PROVIDED BY CANOPY CONTRACTOR). FOOTINGS SHALL BE POURED IN A SUFFICIENT AMOUNT OF TIME, SO PROPER CURING TIME IS ALLOWED.
- 3.3.5 FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING OF ALL METAL AND TRIM AS RELATED TO THE GASOLINE CANOPY AS PER 7-ELEVEN STORE STANDARDS MANUAL.
- 3.3.6 FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRING AND INSTALLATION OF LIGHTS, SIGNS, SECURITY LIGHTS, ETC., IN CONJUNCTION WITH NORMAL GASOLINE INSTALLATION. G.C. SHALL CAULK SEAL ALL LIGHT FIXTURES TO CANOPY DECK.
- 3.3.7 FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING BLOCK OUTS AS MAY BE REQUIRED FOR INSTALLATION OF CANOPY IN ACCORDANCE WITH SHOP DRAWINGS AND PLACEMENT OF ANCHOR BOLTS IN ACCORDANCE WITH SHOP DRAWINGS AS RELATED THERETO.
- 3.4 WARRANTIES: CANOPY CONTRACTOR SHALL WARRANTY, IN WRITING, COMPLETE CANOPY INSTALLATION FOR A MINIMUM PERIOD OF 2 YEARS. A 5 YEAR WARRANTY GUARANTEEING INSTALLATION TO BE FREE OF DESIGN AND INSTALLATION DEFECTS, EXCLUDING ACTS OF MAN, GOD AND NORMAL WEAR AND TEAR.
- 3.5 CLEAN-UP: CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL FROM SITE ALL TRASH AND DEBRIS RESULTING FROM WORK RELATING TO INSTALLATION OF CANOPY.

## SECTION X POST CONSTRUCTION TESTING REQUIREMENT

### PROCEDURES FOR POST CONSTRUCTION TESTING

#### 1.1 SCOPE OF WORK

THIRD PARTY TESTS ARE REQUIRED TO BE PERFORMED ON ANY POST CONSTRUCTION ACTIVITIES ASSOCIATED WITH NEW INSTALLATION, UPGRADE, REPLACEMENT OR REPAIR OF OR TO THE UNDERGROUND STORAGE TANK (UST) SYSTEMS, IF THE WORK INVOLVES PRODUCT PIPING, TANK SUMPS, DISPENSER SUMPS AND PANS OR SPILL CONTAINMENT BUCKETS.

TANKNOLOGY, INC IS CURRENTLY UNDER CONTRACT TO PERFORM ALL REQUIRED TESTS AS THE NATIONAL 3RD PARTY TESTING CONTRACTOR AND MUST BE USED TO PERFORM POST CONSTRUCTION TESTING TO ENSURE THAT 7-ELEVEN MAINTAINS CONTINUITY WITH THE COMPANY'S REGULATORY COMPLIANCE TESTING PROGRAM. THE ONLY EXCEPTION APPLIES IF LOCAL REGULATIONS REQUIRE THAT THE INSTALLATION CONTRACTOR PERFORM THE REQUIRED TESTS AND THE TESTS ARE WITNESSED ON SITE BY A REGULATORY ENTITY. IN THESE CASES THE INSTALLATION CONTRACTOR MUST SUBMIT DOCUMENTATION OF THE REGULATORY WITNESSED TESTS, AS WELL AS THE RESULT OF ANY SUCH TEST, DIRECTLY TO 7-ELEVEN, INC. COMPLIANCE DEPARTMENT.

IT WILL NOT BE NECESSARY FOR TANKNOLOGY TO RETEST A COMPONENT WHICH WAS TESTED BY THE CONTRACTOR, IF THAT TEST WAS WITNESSED BY A REGULATOR. IN THESE CASES THE CONTRACTOR MUST SUBMIT RESULTS OF THE TEST, AS WELL AS, COPIES OF REGULATOR INSPECTION REPORT WITHIN 48 HOURS OF COMPLETION OF THE TEST TO THE ADDRESS LISTED BELOW.

THE REQUIRED TESTS ARE DIVIDED INTO TWO CATEGORIES, PRE-FUEL TEST AND POST FUEL TEST.

THE TESTS PERFORMED DURING EACH PHASE ARE LISTED BELOW.

PRE-FUEL TEST - TEST PERFORMED BEFORE FUEL IS INTRODUCED OR DELIVERED INTO THE UST SYSTEM.

THE FOLLOWING TESTS ARE RECOMMENDED TO BE PERFORMED BEFORE FUEL IS INTRODUCED INTO THE UST SYSTEM:

PRE-FUEL TEST	ESTIMATED TEST DURATION
STP SUMPS	MINIMUM 4 HOURS
DISPENSER SUMPS/CONTAINMENT	MINIMUM 4 HOURS
SPILL CONTAINMENT BUCKETS	MINIMUM 1 HOUR

TANKNOLOGY MAY USE ONE OF THE FOLLOWING TEST METHODS: HYDROSTATIC, PRESSURE OR VACUUM.

WATER USED TO PERFORM THESE PRE-FUEL TESTS MAY BE DISCHARGED ON SITE AS LONG AS THE WATER WAS NOT IN CONTACT WITH ANY FUEL.

#### CONTRACTOR PREPARATION FOR PRE-FUEL (BEFORE DELIVERY) TESTING

- THE TANKS, PIPING AND DISPENSERS MUST BE ACCESSIBLE TO INCLUDE ASPHALT AND CONCRETE THAT CAN BE DRIVEN UPON.
- 110 VOLT AC CURRENT MUST BE AVAILABLE
- ALL PRODUCT PIPING, TANK SUMP, SPILL BUCKET AND DISPENSER SUMP/LINER WORK MUST BE COMPLETE AND COMPONENTS ACCESSIBLE.
- TEST VALVES MUST BE INSTALLED FOR THE SECONDARY PRODUCT PIPING.
- DISPENSERS DO NOT NEED TO BE IN PLACE AND PRODUCT PIPING DOES NOT NEED TO BE PURGED.
- AS AN OPTION TO SIGNIFICANTLY REDUCE TIME ON SITE, THE CONTRACTOR SHOULD FLOOD ALL TANK SUMPS AND DISPENSER SUMPS WITH CLEAN WATER THE NIGHT BEFORE THE SCHEDULED TESTING. WATER MUST BE ADDED TO A MINIMUM OF 3 INCHES ABOVE THE HIGHEST PENETRATION OR SEAM IN THE SUMP OR PAN.
- THE CONTRACTOR SHOULD ALLOW SEVERAL HOURS TO ALLOW THE WATER LEVEL TO STABILIZE AND MARK THE LEVEL OF THE WATER WITH A PERMANENT MARKER.

POST FUEL TEST - TEST PERFORMED AFTER FUEL IS INTRODUCED OR DELIVERED INTO THE UST SYSTEM.

POST-FUEL TEST	ESTIMATED TEST DURATION
TANK INTERSTICE	MINIMUM 1 HOUR PER TANK
TANK PRIMARY (TIGHTNESS)	MINIMUM 2 1/2 HOURS
LINE/PIPE INTERSTICE	MINIMUM 1 HOUR PER LINE/PIPE
LINE PRIMARY (TIGHTNESS)	COMPLETED DURING TANK TEST
LINE LEAK DETECTOR	COMPLETED DURING TANK TEST
STAGE II (WHERE APPLICABLE)	MINIMUM 3 HOURS
*AUTOMATIC TANK GAUGE (ATG) CERTIFICATION	MINIMUM 2 HOURS
OTHER (AS REQUIRED BY STATE OR LOCAL ORDINANCE)	UNKNOWN

\*DOES NOT INCLUDE NEW AUTOMATIC TANK GAUGE (ATG) INSTALLATION. CERTIFICATION OF NEW ATG IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

NOTE: WATER USED TO PERFORM TESTING OF (STP) SUMPS, DISPENSER SUMPS AND/OR SPILL BUCKETS, AFTER FUEL IS INTRODUCED/DELIVERED INTO THE UST SYSTEM CANNOT BE DISCHARGED ON SITE.

WATER THAT IS OR WAS IN CONTACT WITH FUEL MUST BE PROPERLY DISCHARGED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND/OR LOCAL REGULATIONS.

#### CONTRACTOR PREPARATION FOR POST-FUEL (AFTER DELIVERY) TESTING

- THE FUEL LEVEL MUST BE BETWEEN 70-80 PERCENT OF TANK CAPACITY
- COMPARTMENTALIZED TANKS MUST HAVE FUEL LEVELS WITHIN 10" OF EACH OTHER.

ALL FUELING INCLUSIVE OF STAGE I AND STAGE II VAPOR RECOVERY AREAS THE FOLLOWING CONDITIONS MUST APPLY.

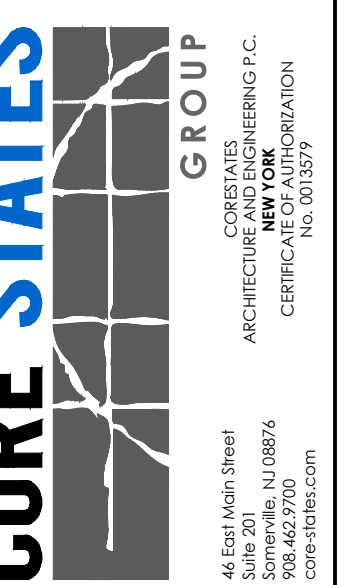
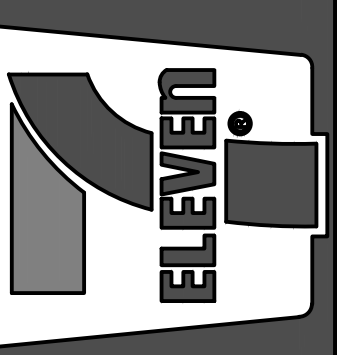
- ALL PRODUCT PIPING MUST BE THOROUGHLY PURGED OF AIR AND VAPORS.
- THE DISPENSERS MUST BE SET AND OPERATIONAL TO INCLUDE ALL VAPOR VACUUM PUMPS AND OTHER STAGE II EQUIPMENT FULLY FUNCTIONAL. REPLACE FILTER AFTER PURGING.
- ALL HANGING HARDWARE MUST BE INSTALLED AND OPERATIONAL
- THE TANKS, PIPING AND DISPENSERS MUST BE ACCESSIBLE TO INCLUDE ASPHALT AND CONCRETE THAT CAN BE DRIVEN UPON.
- 110 VOLT AC CURRENT MUST BE AVAILABLE
- TEST VALVES MUST BE INSTALLED FOR THE SECONDARY PRODUCT PIPING.

#### CONTRACTOR NOTIFICATION TO TESTING COMPANY (TANKNOLOGY):

IT IS RECOMMENDED THAT THE CONTRACTOR PROVIDE NOTIFICATION TO TANKNOLOGY OF THE NEED TO PERFORM TESTS AT LEAST 14 DAYS PRIOR TO THE ANTICIPATED TEST DATE. HOWEVER, TO ENSURE TESTS ARE CONDUCTED IN A TIMELY MANNER A MINIMUM OF FIVE (5) DAYS IS REQUIRED. TANKNOLOGY UNDERSTANDS THAT ACTUAL DATE MAY CHANGE, BY PROVIDING THEM WITH AS MUCH TIME AS POSSIBLE ALLOWING THEM TO MAINTAIN A TIME SLOT IN THEIR SCHEDULE TO SHIFT AS NECESSARY. THE CONTRACTOR MUST KEEP TANKNOLOGY ADVISED OF THE ANTICIPATED DATE AND TIME THAT THE TESTING WILL BE NEEDED AS PROJECTED DATES CHANGE.

Description	
Date	
Rev. #	
Proto 12-01-2020	

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7-ELEVEN #38912  
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FUELING SPECIFICATIONS



Job#: SEI-32507  
Scale: AS NOTED  
Date: 08/24/21  
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Checked By: CGC

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