

LOCATION MAP
(NOT TO SCALE)

LEGEND

- 99.50 PROP. SPOT ELEVATION
- MEG MEET EXISTING GRADE
- 102 PROP. CONTOUR ELEVATION
- 100 PROP. DIRECTION OF SURFACE FLOW
- 100 EXISTING CONTOUR ELEVATION
- F FILL COVER
- V VAPOR RECOVERY/VENT COVER
- VE VENT EXTRACTOR (FUTURE DIESEL)
- TLM TANK LEVEL MONITOR
- B BRINE/INTERSTITIAL COVER
- STP SUBMERSIBLE TURBINE PUMP
- ⊕ OBSERVATION WELL

MAP K6SE PARCEL 146 D010
N/F KATINDA ESG, LLC
17 ARBOR STREET
PORTLAND, ME 04103
BOOK 27114 PAGE 108

MAP K6SE
PARCEL 146 D001
0.37 Ac.±

MAP K6SE PARCEL 146 D0110
N/F TIMOTHY E. BRYAN
PO BOX 1264
WINDHAM, ME 04062
BOOK 25819 PAGE 322

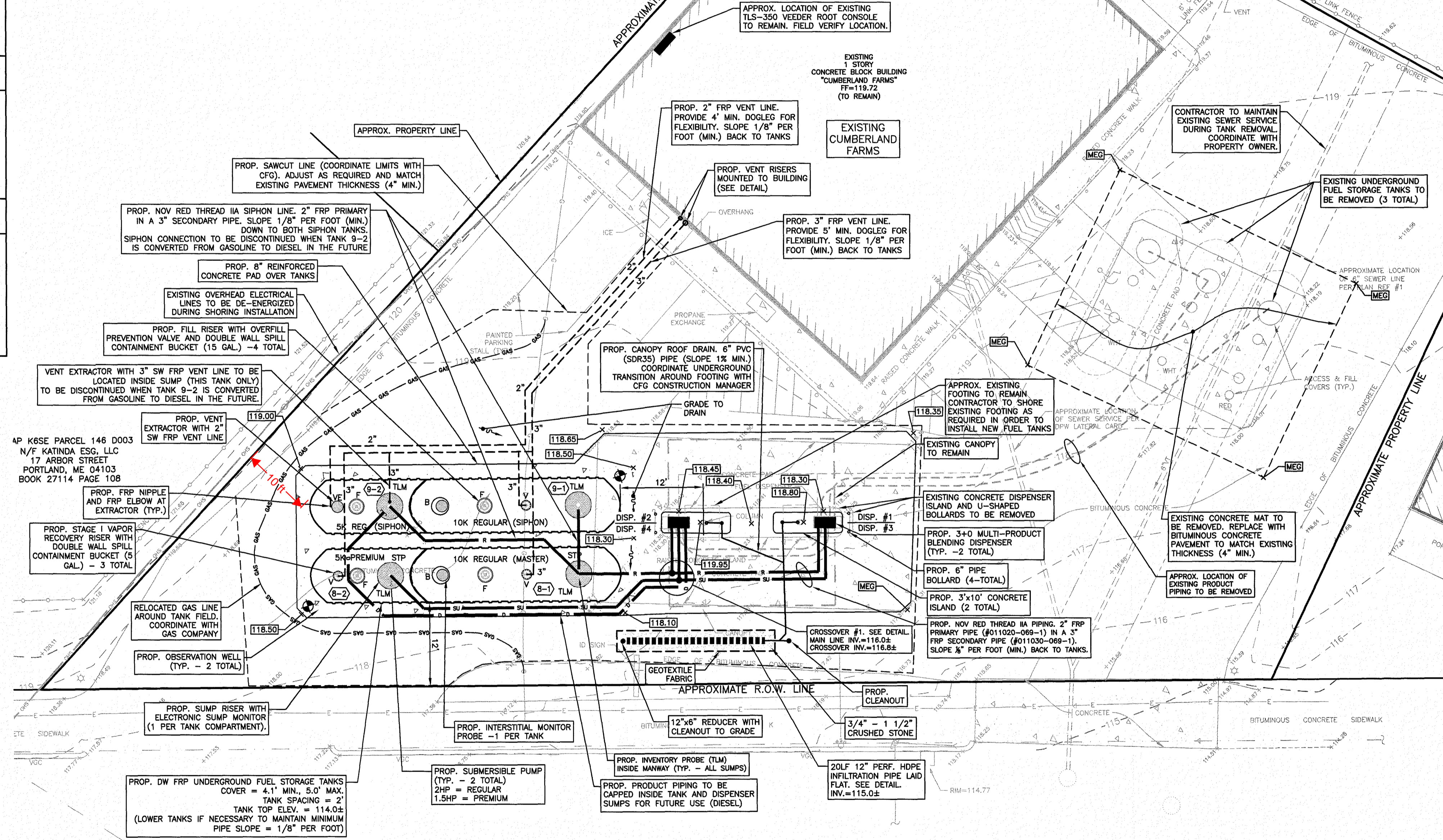
EXISTING UST LEGEND

TANK#	CONTENT	CAPACITY	MATERIAL	INSTALLED	INTENT
5-1	REG. UNL.	8,000 gallons	dwfg	5-1-87	to be removed
6-1	PREM. UNL.	8,000 gallons	dwfg	5-1-87	to be removed
7-1	REG. UNL.	8,000 gallons	dwfg	5-1-87	to be removed

PROPOSED UST LEGEND

TANK#	CONTENT	CAPACITY	MATERIAL	INSTALLED
8-1	REG. UNL.	10,000 gallons	dwfg	proposed
8-2	SUPER UNL.	5,000 gallons	dwfg	proposed
9-1	REG. UNL.	10,000 gallons	dwfg	proposed
9-2	REG. UNL.	5,000 gallons	dwfg	proposed

*TO BE PIPED FOR FUTURE DIESEL CONVERSION



FOREST AVENUE - ROUTE 302

SITE NOTES:

- THIS IS AN EXISTING UST FACILITY (MAINE DEP FACILITY #12130). THE INTENT OF THIS PLAN IS TO SHOW THE INSTALLATION OF TWO NEW UNDERGROUND FUEL STORAGE TANKS, PRODUCT PIPING, VENT PIPING AND DISPENSER ISLANDS.
- EXISTING BOUNDARY, SITE LAYOUT, GRADING AND UTILITY INFORMATION AS SHOWN ON THIS PLAN WAS TAKEN FROM AN ACTUAL FIELD SURVEY AS PERFORMED BY THIS OFFICE.

GENERAL UST SYSTEM NOTES:

- THE UNDERGROUND STORAGE SYSTEM WILL BE TESTED BY THE CERTIFIED TANK INSTALLER PRIOR TO BACKFILLING AS FOLLOWS:
 - PRODUCT PIPING & SIPHON LINE (NOV-RED THREAD IIA)
 - THE FOLLOWING TESTS SHALL BE CERTIFIED BY THE INSTALLER PRIOR TO BACKFILLING AND COPIES OF THE RESULTS SHALL BE PROVIDED TO THE OWNER AT THE TIME OF BACKFILL INSPECTION.
 - PRIMARY LINE
 - VISUALLY INSPECT ALL JOINTS FOR PROPER INSERTION AND ADHESIVE CURE PRIOR TO PRESSURIZING THE SYSTEM. A GAP BETWEEN THE ADHESIVE BEAD AND THE FITTING SHOULDER INDICATES THAT THE POSSIBILITY OF JOINT FAILURE EXISTS. MAKE ANY NECESSARY REPAIRS BEFORE PRESSURIZING THE PIPING SYSTEM. CHECK THE INTEGRITY OF THE JOINTS BY PRESSURIZING THE SYSTEM TO 25 PSIG AND HOLDING THE PRESSURE FOR A MINIMUM OF ONE MINUTE. SOAP ALL JOINTS TO TEST FOR LEAKS. IF THERE ARE NO LEAKS, RAISE THE LINE PRESSURE IN THE SYSTEM TO A MAXIMUM OF 50 PSIG. AGAIN, HOLD THE PRESSURE FOR AT LEAST ONE HOUR AND SOAP ALL JOINTS TO CHECK FOR LEAKS. AFTER THE PIPING HAS PASSED THE 50 PSIG PRESSURE TEST, REDUCE THE PRESSURE TO 25 PSIG AND MAINTAIN UNTIL ALL PAVING HAS BEEN COMPLETED.
 - SECONDARY LINE
 - PERFORM AN AIR TEST AT 10 PSIG AND MAINTAIN THE PRESSURE FOR A MINIMUM PERIOD OF ONE HOUR, OR LONG ENOUGH TO SOAP ALL JOINTS. BEFORE BACKFILL THE CONTRACTOR SHALL MAINTAIN THE REQUIRED PRESSURE FOR A MINIMUM OF 2 HOURS AFTER THE BACKFILL PROCESS HAS BEEN COMPLETED. THE RESULTS OF THIS POST BACKFILL TEST SHALL BE CERTIFIED BY THE INSTALLER AND RESULTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS OF THE TEST.
 - TANKS (CSI)
 - EACH NEW TANK SHALL BE PRECISION TIGHTNESS TESTED AT 5 PSIG FOR 30 MINUTES BY A QUALIFIED TECHNICIAN IN ACCORDANCE WITH THE CONTAINMENT SOLUTIONS INSTALLATION INSTRUCTIONS AND STATE REGULATIONS.
 - VENT PIPING (NOV-RED THREAD IIA)
 - THE FOLLOWING TEST SHALL BE CERTIFIED BY THE INSTALLER PRIOR TO BACKFILLING AND COPIES OF THE RESULTS SHALL BE PROVIDED TO THE OWNER AT THE TIME OF BACKFILL INSPECTION.
- VISUALLY INSPECT ALL JOINTS FOR PROPER INSERTION AND ADHESIVE CURE PRIOR TO PRESSURIZING THE SYSTEM. A GAP BETWEEN THE ADHESIVE BEAD AND THE FITTING SHOULDER INDICATES THAT THE POSSIBILITY OF JOINT FAILURE EXISTS. MAKE ANY NECESSARY REPAIRS BEFORE PRESSURIZING THE PIPING SYSTEM. CHECK THE INTEGRITY OF THE JOINTS BY PRESSURIZING THE SYSTEM TO 25 PSIG AND HOLDING THE PRESSURE FOR A MINIMUM OF ONE MINUTE. SOAP ALL JOINTS TO TEST FOR LEAKS. IF THERE ARE NO LEAKS, RAISE THE LINE PRESSURE IN THE SYSTEM TO A MAXIMUM OF 50 PSIG. AGAIN, HOLD THE PRESSURE FOR AT LEAST ONE HOUR AND SOAP ALL JOINTS TO CHECK FOR LEAKS. AFTER THE PIPING HAS PASSED THE 50 PSIG PRESSURE TEST, REDUCE THE PRESSURE TO 25 PSIG AND MAINTAIN UNTIL ALL PAVING HAS BEEN COMPLETED.
- WARNING: DO NOT AIR TEST LINES THAT HAVE CONTAINED HAZARDOUS, FLAMMABLE, OR COMBUSTIBLE LIQUIDS OR VAPORS UNLESS THEY ARE PURGED AND MADE SAFE BEFOREHAND. IF PURGING IS NOT FEASIBLE, AN INERT GAS SUCH AS NITROGEN OR HELIUM MUST BE USED TO PRESSURIZE THE PIPING.
- DISPENSER SUMPS AND TANK SUMPS
 - THE FOLLOWING TEST SHALL BE CERTIFIED BY THE INSTALLER PRIOR TO BACKFILLING AND COPIES OF THE RESULTS SHALL BE PROVIDED TO THE OWNER AT THE TIME OF BACKFILL INSPECTION.
- NEW TANK SUMPS (CSI)
 - HYDROSTATICALLY TESTING SUMPS IS REQUIRED TO ENSURE THAT ALL SUMP PENETRATIONS ARE TIGHT. THE FOLLOWING TEST SHALL BE CERTIFIED BY THE INSTALLER PRIOR TO BACKFILLING AND COPIES OF THE RESULTS SHALL BE PROVIDED TO THE OWNER AT THE TIME OF BACKFILL INSPECTION. THE NEW SUMPS SHALL BE HYDROSTATICALLY TESTED FOR TIGHTNESS AS FOLLOWS:
 - AFTER ALL SEAMS AND FITTINGS HAVE BEEN COMPLETED AND ALL PIPING AND CONDUITS HAVE BEEN INSTALLED;
 - AT A LEVEL THAT IS WITHIN ONE INCH OF THE TOP OF THE SUMP;
 - BY RECORDING THE LIQUID LEVEL MEASUREMENTS AT THE BEGINNING AND END OF THE TEST;
 - FOR A MINIMUM OF 3 HOURS; AND
 - WITH NO ADDITION OF LIQUID TO THE SUMP.
 - A PASSING HYDROSTATIC TEST SHALL HAVE NO LOSS OF LIQUID OR OBSERVED LEAKS AFTER THE COMPLETE DURATION OF THE TEST.
- NEW DISPENSER SUMPS (BRAVO)
 - HYDROSTATICALLY TESTING SUMPS IS REQUIRED TO ENSURE THAT ALL SUMP PENETRATIONS ARE TIGHT. THE FOLLOWING TEST SHALL BE CERTIFIED BY THE INSTALLER PRIOR TO BACKFILLING AND COPIES OF THE RESULTS SHALL BE PROVIDED TO THE OWNER AT THE TIME OF BACKFILL INSPECTION. THE NEW SUMPS SHALL BE HYDROSTATICALLY TESTED FOR TIGHTNESS AS FOLLOWS:
 - AFTER ALL SEAMS AND FITTINGS HAVE BEEN COMPLETED AND ALL PIPING AND CONDUITS HAVE BEEN INSTALLED;
 - AT A LEVEL THAT IS WITHIN ONE INCH OF THE TOP OF THE SUMP;
 - BY RECORDING THE LIQUID LEVEL MEASUREMENTS AT THE BEGINNING AND END OF THE TEST;
 - FOR A MINIMUM OF 3 HOURS; AND
 - WITH NO ADDITION OF LIQUID TO THE SUMP.
 - A PASSING HYDROSTATIC TEST SHALL HAVE NO LOSS OF LIQUID OR OBSERVED LEAKS AFTER THE COMPLETE DURATION OF THE TEST.
- SPILL CONTAINMENT EQUIPMENT (EMCO WHEATON)
 - THE FOLLOWING TESTS SHALL BE CERTIFIED BY THE INSTALLER AND RESULTS SHALL BE PROVIDED AT THE TIME OF BACKFILL INSPECTION.
 - EMCO WHEATON DOUBLE SPILL CONTAINMENT MANHOLES ARE VACUUM TESTED, BOTH PRIMARY AND SECONDARY, PRIOR TO SHIPMENT. TO ENSURE THAT NO DAMAGE HAS OCCURRED DURING SHIPMENT OR INSTALLATION, THE FOLLOWING TESTS ARE QUICK, ON-SITE METHODS TO VERIFY THE INTEGRITY OF THE PRIMARY (E1) AND SECONDARY (E2) CONTAINMENTS.
 - PRIMARY HYDROSTATIC TESTING PROCEDURE:
 - FILL THE SPILL BUCKET WITH WATER UNTIL THE LEVEL IS 1" BELOW THE UPPER LIP OF THE SNOW PLOW RING.
 - AFTER 1 HOUR, IF THERE IS NO DETECTABLE DROP IN WATER LEVEL, THE SPILL BUCKET HAS PASSED THE TEST.
 - SECONDARY INTEGRITY TEST (VACUUM):
 - REMOVE THE GAUGE FROM THE INSPECTION PORT AND INSTALL THE TEST ADAPTER P/N 494343 (INCLUDED WITH THE VACUUM APPARATUS).
 - ATTACH AIR PRESSURE SOURCE TO AIR PRESSURE REGULATOR ON VACUUM APPARATUS.
 - SLOWLY APPLY VACUUM OF 30" WC TO THE INTERSTITIAL SPACE. WAIT 30 SECONDS. REAPPLY 30" WC.
 - ENSURE SWITCH IS IN OFF (CENTER) POSITION. START TIMER AND RECORD REMAINING VACUUM AFTER 1 MINUTE.
 - IF THE REMAINING VACUUM AFTER 1 MINUTE IS 26" WC (1.9" MERCURY) OR GREATER, BOTH THE PRIMARY AND THE SECONDARY CONTAINMENTS ARE TIGHT.
 - IF THE TEST FAILS, REPEAT THE TEST. IF THE TEST FAILS A SECOND TIME, THEN PERFORM PRESSURE TEST.
 - REPLACE COMPONENTS OR REPAIR AS NECESSARY.
 - REINSTALL GAUGE (OR PUSH BUTTON TEST PORT ASSEMBLY, IF CM SENSOR MODEL).
 - SECONDARY INTEGRITY TEST (PRESSURE): (ONLY IF VACUUM TEST FAILS)
 - ATTACH EMCO WHEATON 494343 INSPECTION TUBE TEST ADAPTER IN INSPECTION PORT.
 - PRESSURIZE THE INTERSTITIAL SPACE TO 30" WC. WAIT 30 SECONDS FOR THE PRESSURE TO STABILIZE. THE PRESSURE SUPPLY MUST THEN BE TURNED OFF (USING A BALL VALVE) TO ISOLATE THE PRESSURIZED INTERSTITIAL SPACE. RECORD THE PRESSURE. THEN WAIT ONE MINUTE AND RECORD THE PRESSURE AGAIN. THE PRESSURE DECAY SHOULD BE LESS THAN 4" WC IN ONE MINUTE.
 - IF THE UNIT DOES NOT PASS THE PRESSURE DECAY TEST, PRESSURIZE THE INTERSTITIAL SPACE TO 30" WC IN ORDER TO ASSIST IN LOCATING THE PROBLEM AREA.
 - APPLY SOAP SOLUTION TO RIM AND BOLTS, AROUND BASE OF GAUGE TUBE AND FLANGE BASE. OBSERVE FOR LEAKAGE.
 - IF LEAKAGE/BUBBLES APPEAR IN ANY OF THESE AREAS, CHECK THE TORQUE VALUE ON BOLTS AND RETEST. IF LEAKS PERSIST, REMOVE GASKETS, CLEAN, REASSEMBLE AND RETEST.

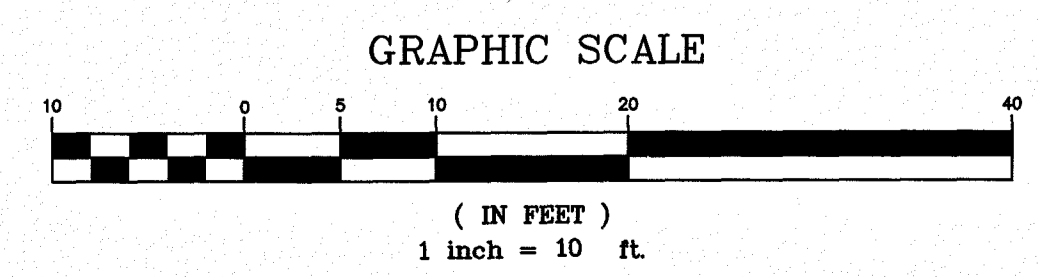
SHEET INDEX

DESCRIPTION	DWG. NO
UST COVER SHEET	CFG14.0
MATERIAL LIST	CFG14.1
TANK INSTALLATION DETAILS	CFG14.2
TANK INSTALLATION DETAILS	CFG14.3
SUMP & PIPING DETAILS	CFG14.4
TANK INSTALLATION DETAILS	CFG14.5
TANK INSTALLATION DETAILS	CFG14.6

DWG. NO

CFG14.0
CFG14.1
CFG14.2
CFG14.3
CFG14.4
CFG14.5
CFG14.6

01 TANK & PIPING LAYOUT
SCALE: 1" = 10'



REVISIONS

NO.	DATE	REV. BY.	DESCRIPTION

44 Shiles Road, Suite One
Salem, New Hampshire 03079
(603) 893-0720
ENGINEERS • PLANNERS • SURVEYORS
www.mhfdesign.com

V# 0492
Store# 5570
Gas Station# 1805
MEDEP Facility
ID# 12130

1136 FOREST AVENUE
PORTLAND, MAINE

CSI - DOUBLE WALL FIBERGLASS TANK INSTALLATION FOR:
ONE(1) 12,000/GALLON ONE(1) 12,000 (6/6 SPLIT) GALLON TANKS

SCALE: 1" = 10'
DATE: APRIL 11, 2017
FILE: 4188TP.DWG
DRAWN BY: DSA

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Framingham, MA 01702

UST COVER SHEET
CFG14.0

MHF PROJECT NO. 418817 SHEET 1 OF 7

