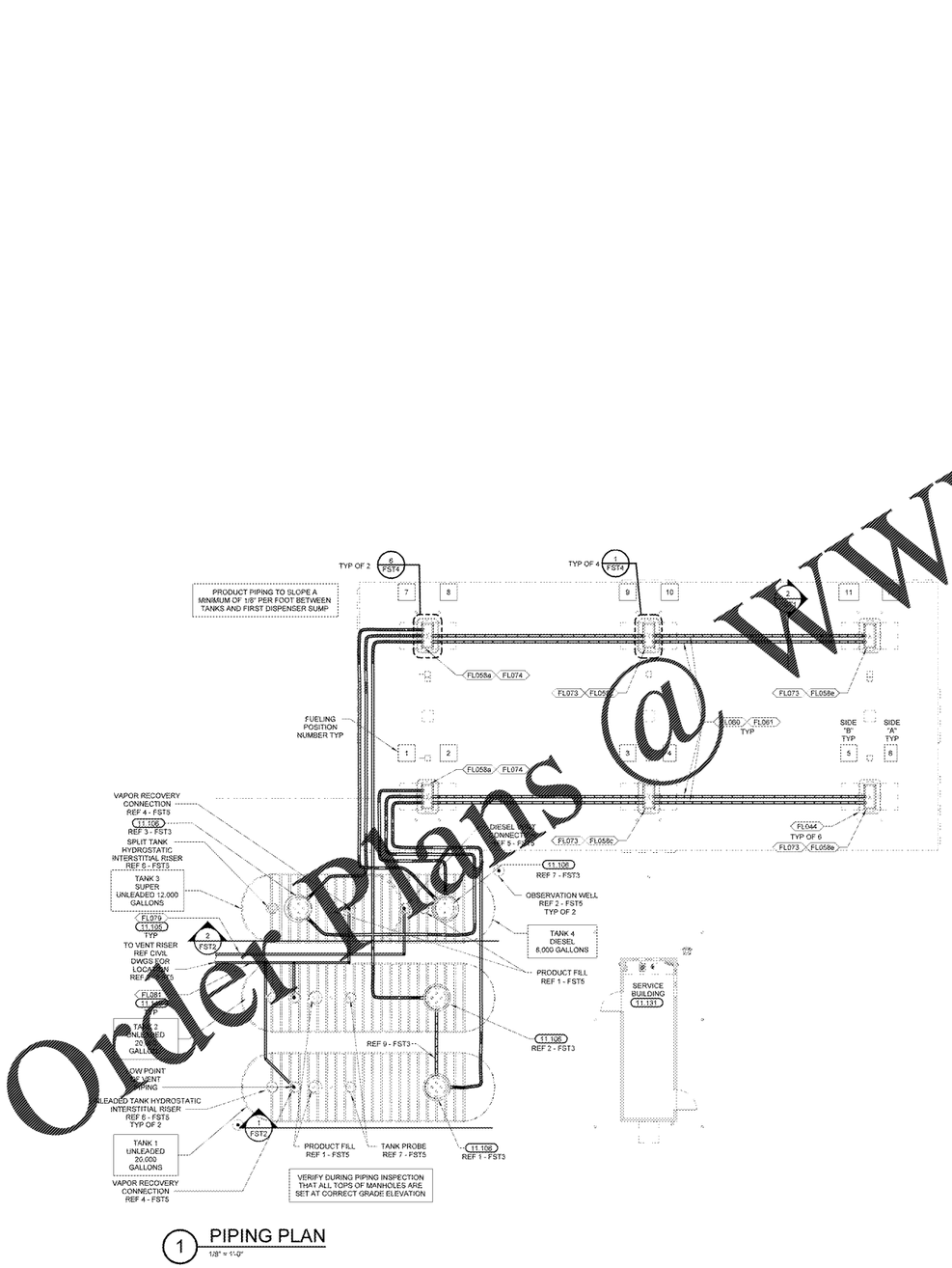
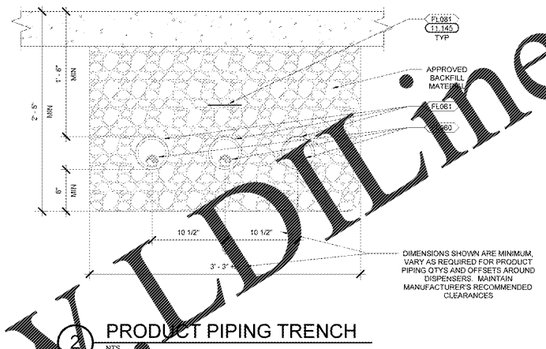


1 PIPING PLAN
1/8" = 1'-0"

PIPING TRENCHES SHALL BE DUG IN SUCH A MANNER THAT THE TRENCH WIDTH IS EQUAL TO AT LEAST TWICE THE WIDTH OF ALL THE FLEXIBLE PIPING CONTAINED WITHIN. MAINTAIN A MINIMUM OF 4" (10cm) CLEAR DISTANCE BETWEEN FLEXIBLE PIPING POSITIONED IN THE TRENCH AND 2 1/2" 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. IF PIPING TRENCH IS IN UNPAVED AREA, A MINIMUM OF 20" OF APPROVED BACKFILL IS REQUIRED



2 PRODUCT PIPING TRENCH
NTS

GENERAL NOTES

1. FL4 REF EQUIPMENT SCHEDULE SHEET

2. GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ITEMS SHOWN UNLESS OTHERWISE SPECIFIED OR NOTED

3. GENERAL CONTRACTOR MUST BE CERTIFIED TO INSTALL ALL SPECIFIED PETROLEUM EQUIPMENT PROVIDED ON THE DRAWINGS OR HAVE MANUFACTURER'S REPRESENTATIVE ON SITE TO CERTIFY INSTALLATION. WRITTEN VERIFICATION WILL BE REQUIRED IN ORDER TO RECEIVE FINAL PAYMENT

4. SUPPLY AND INSTALL SUMPTITE SEALANT ON ALL TANK AND DISPENSER SUMPS IF WATER TABLE COVERS 50% OR MORE OF THE UNDERGROUND STORAGE TANKS. ALL SEAMS, SUPPLY LINES, AND CONDUIT PENETRATIONS ARE TO BE COATED. ALL APPLICATORS MUST BE TRAINED AND CERTIFIED BY THE SUPPLIER. (CONTACT ROGER MCKELVEY "SUMPTITE PRODUCTS" 1-803-600-1061)

5. STAGE I VAPOR RECOVERY SYSTEM SHALL BE INSTALLED AND TESTED AS PER CARB EXECUTIVE ORDER NUMBER VR-102 (LATEST VERSION). GENERAL CONTRACTOR TO VERIFY THAT THE INSTALLATION AND TESTING FOR VR AND VAPOR RECOVERY MEETS ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

6. PURGE AND FILL A MINIMUM OF 250 GALLONS OF FUEL THROUGH EACH FUEL POINT AFTER PURGING, REPLACE FALCON FILTERS WITH PETROCLEAR MODEL 40537 (HYDROPHOBIC) FILTERS. PROPERLY DISPOSE OF ALL FALCON FILTERS AFTER CHANGING OUT

7. THE FUEL DELIVERY OPERATOR WILL BE NOTIFIED WHEN THE TANKS REACH 90% CAPACITY BY RESTRICTING FLOW OF FUEL DELIVERY. FUEL DELIVERY WILL BE TERMINATED WHEN TANK CAPACITY REACHES 93%. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SETTING OVERFILL DEVICE TO PROPER DEPTH FOR OPERATION AT SPECIFIED TANK CAPACITIES.

8. CONFIRM THAT THERE IS NO WATER IN THE TANKS PRIOR TO FUEL DELIVERY. OWNER WILL REQUIRE A SIGNED COPY OF THE FUEL DELIVERY TICKET, WHICH MUST INDICATE THAT THERE WAS NO WATER IN THE UNDERGROUND STORAGE TANKS AND CONTAIN THE SIGNATURE OF THE DELIVERY PERSON AND THE CONTRACTOR'S REPRESENTATIVE.

9. COORDINATE PRODUCT PIPING, VENT PIPING, AND CONDUITS SO AS NOT TO INTERFERE WITH SERVICE BUILDING PIPE BOLLARD PLACEMENT

10. ALL FIBERGLASS VENT PIPING SHALL BE 3" DIAMETER UNLESS OTHERWISE NOTED.

11. TANKS, TANK STRAPS, TURNBUCKLES, DEADMEN AND STEEL ANCHORS TO BE SUPPLIED BY OWNER REALTY FROM TANK MANUFACTURER. INSTALL PER THE TANK MANUFACTURER'S SPECIFICATIONS. COORDINATE OWNER SUPPLIED ITEMS WITH CONSTRUCTION MANAGER

12. ALL METAL ON THE TANK ANCHORING SYSTEM MUST BE GALVANIZED TO PROTECT AGAINST CORROSION.

13. APPLY ANTI-SEIZE COMPOUND TO ALL BOLTED MANHOLE COVERS.

14. UNIONS SHALL BE INSTALLED AT ALL PRODUCT PIPING CONNECTIONS AS REQUIRED TO ALLOW FOR REMOVAL OF EQUIPMENT THROUGH THE MANWAY COVERS.

15. FLEXIBLE CONNECTORS WILL BE ACCEPTED AT THE VENT LINE CONNECTION AT THE RISER AND REMOTE VENT. ALL FLEXIBLE CONNECTORS USED THAT WILL BE IN DIRECT CONTACT WITH FILL MATERIAL WILL BE REQUIRED TO HAVE TWO LAYERS OF PRIME AND WRAP MATERIAL. REF TO EQUIPMENT SCHEDULE ITEM NUMBER 48 FOR CONNECTOR SPECIFICATION.

16. ALL SUBMERSIBLE PUMP CONNECTIONS TO PRODUCT PIPING SHALL HAVE ONE UNION AND BALL VALVE LOCATED IN THE PUMP ENCLOSURE MANWAY.

17. FLEXIBLE CONNECTORS FOR THE ELECTRICAL CONNECTIONS FROM EXPLOSION PROOF JUNCTION BOX TO SUBMERGED PUMP WILL NOT BE ACCEPTED. ALL CONNECTIONS MUST BE WITH RIGID CONDUIT

18. FOR ELECTRICAL CONDUIT SIZE AND ROUTING REFERENCE THE FUEL STATION ELECTRICAL DRAWINGS.

19. ALL PRIMARY AND SECONDARY PIPING SHALL BE AIR TESTED PER MANUFACTURER'S REQUIREMENTS. REMOVE THE TEST TUBE AND LEAVE IN SUMP AFTER COMPLETING TEST.

20. ALL DISPENSER KEYS SHALL BE GIVEN TO THE OWNER ALONG WITH TWO COMPLETE KEY RINGS CONTAINING DISPENSER KEYS.

21. THE DISPENSER REMOTE CONTROL SHALL BE STORED IN THE HEAD OF THE #1 DISPENSER. AFTER START-UP IS COMPLETE, THE REMOTE SHALL BE GIVEN TO THE OWNER.

KEYNOTES

11.105	3" FIBERGLASS VENT PIPING SLOPED MINIMUM 1/8" PER FOOT TO TANKS FROM REMOTE VENT. REFER TO VENT RISER DETAIL AND CIVIL DRAWINGS FOR LOCATION OF REMOTE VENT. PROVIDE SLOPED PIPE AND FITTING CONFIGURATION AT MANIFOLDED TANKS THAT DIRECTS CONDENSATE TO REGULAR UNLEADED TANK.
11.106	CONTAINMENT MANWAY WITH SUBMERGED PUMP, TANK PROBE, INTERSTITIAL RISER, AND EQUALIZATION PIPING AS APPLICABLE. REFER TO STP SUMP PLANS.
11.131	APPROXIMATE SERVICE BUILDING LOCATION. REF ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
11.145	INSTALL DETECTABLE UNDERGROUND TAPE ABOVE FUEL AND VENT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DEPTH SHALL BE 12" TO 18" MAX BELOW FINISH GRADE.

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