

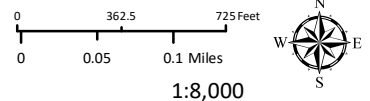
CASE: EM 2025-0002
OWNER: KIM, Young
APN: 121-280-17
APLCT: Young Kim
AGENT: Debra Lennox
ADDRESS: 7746 N Hwy 1, Little River

THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



CASE: EM 2025-0002
OWNER: KIM, Young
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- Major Towns & Places
- Highways (2017)
- Public Roads
- Private Roads
- Driveways/Unnamed Roads





AERIAL IMAGERY

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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community,
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 Major Towns & Places
 Assessors Parcels

0 35 70 Feet
0 0.005 0.01 Miles
1:800



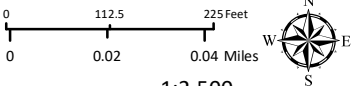
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1:2,500
TOPOGRAPHIC MAP
CONTOUR INTERVAL IS 40 FEET

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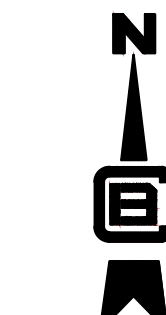
7746 CA-1, Little River, CA 95456



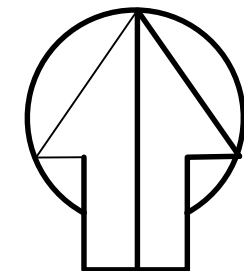
VICINITY MAP

(LITTLE RIVER CALIFORNIA)

NTS.



NORTH ARROW



NORTH ARROW

0 5 10 20
SCALE: 1"=20'

1 EXISTING SITE PLAN
scale: 1"=20'-0"

LEGEND:

a1 - E PROPERTY LINE

a2- E BUILDING

- 1 (E) UST 10,000 GAL REGULAR AND 2 X1000 GAL. PREMIUM TANKS CONCRETE SLAB TO BE REMOVE
- 2 (E) UST 10,000 GAL REGULAR TANK SINGLE WALL TO BE REMOVE
- 3 (E) 2 UST 10,000 GAL PREMIUM TANKs SINGLE WALL TO BE REMOVE
- 4 (E) TLS-350 MONITORING SYSTEM TO BE UPGRADE
- 5 (E) GAS DISPENSERS CANOPY TO BE REMAIN (14' HEIGHT)
- 6 (E) GAS DISPENSERS SHOUT OFF SWITCH SYSTEM TO BE REMAIN
- 7 (E) UST VENT RISER TO BE REMOVE AND RENEW
- 8 (E) 2 DISPENSER MPDs TO BE REMOVE AND INSTALL NEW DISPENSERS
- 9 (E) TRASH ENCLOSURE

GENERAL DEMOLITION NOTES:

GENERAL NOTES - REMOVAL OF STRUCTURES, UTILITIES & UST SYSTEMS

Boulevard Construction Inc. shall ensure that all necessary permits and approvals for removal have been obtained prior to commencing work. Before starting removal activities, Boulevard Construction Inc. shall field-verify and confirm the limits of demolition, as well as identify existing utilities and improvements that are to remain. Demolition and removal items shall be as depicted in the design drawings. Boulevard Construction Inc. must verify and locate all demolition items before starting work and immediately notify the appropriate engineering consultant of any discrepancies. Any hazardous substances and/or materials encountered shall be handled and disposed of by qualified personnel in accordance with county, state, and federal regulations. Any underground storage tanks (USTs), vaults, or similar structures encountered shall be removed per county and state regulations. Crawl spaces, tunnels, and tank holes shall be backfilled and compacted according to the recommendations of the soils engineer. Boulevard Construction Inc. shall disconnect and remove all power, telephone, and gas services as required. Coordination with the field engineer and appropriate utility companies is required for all disconnections and removals. Boulevard Construction Inc. shall coordinate with the owner's engineer and utility providers to verify service locations and prevent disruptions to utilities that are to remain operational. Boulevard Construction Inc. is solely responsible for any damages resulting from utility disruptions. Boulevard Construction Inc. shall confirm and verify the removal work scope and utility services with the owner's authorized representative prior to starting demolition.

UTILITY CONFLICT NOTE:

The contractor shall be responsible for verifying the location, dimensions, and depth of all existing utilities, whether shown on these plans or not, by potholing the utilities and surveying both the horizontal and vertical location prior to construction. This includes contacting the **little river** Utility Locate at all existing utilities at locations of new utility crossings to physically verify potential conflicts. The locations of said utilities as shown on these plans are based on unverified public information and are subject to variation. If conflicts occur, the contractor shall consult with Boulevard Construction Inc. to resolve all issues prior to proceeding with construction.

PROJECT DIRECTOR:
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Farah@theboulevard.us

PROJECT MANAGER:
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ARCHITECT OF RECORD :
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4080 TRUXEL ROAD, SUITE 100,
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PROJECT ADDRESS:
7746 N HIGHWAY 1, LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:
121-280-17-00

REVISIONS:	BY:	
DATE:	DESCRIPTION	REVISION
08-28-25		

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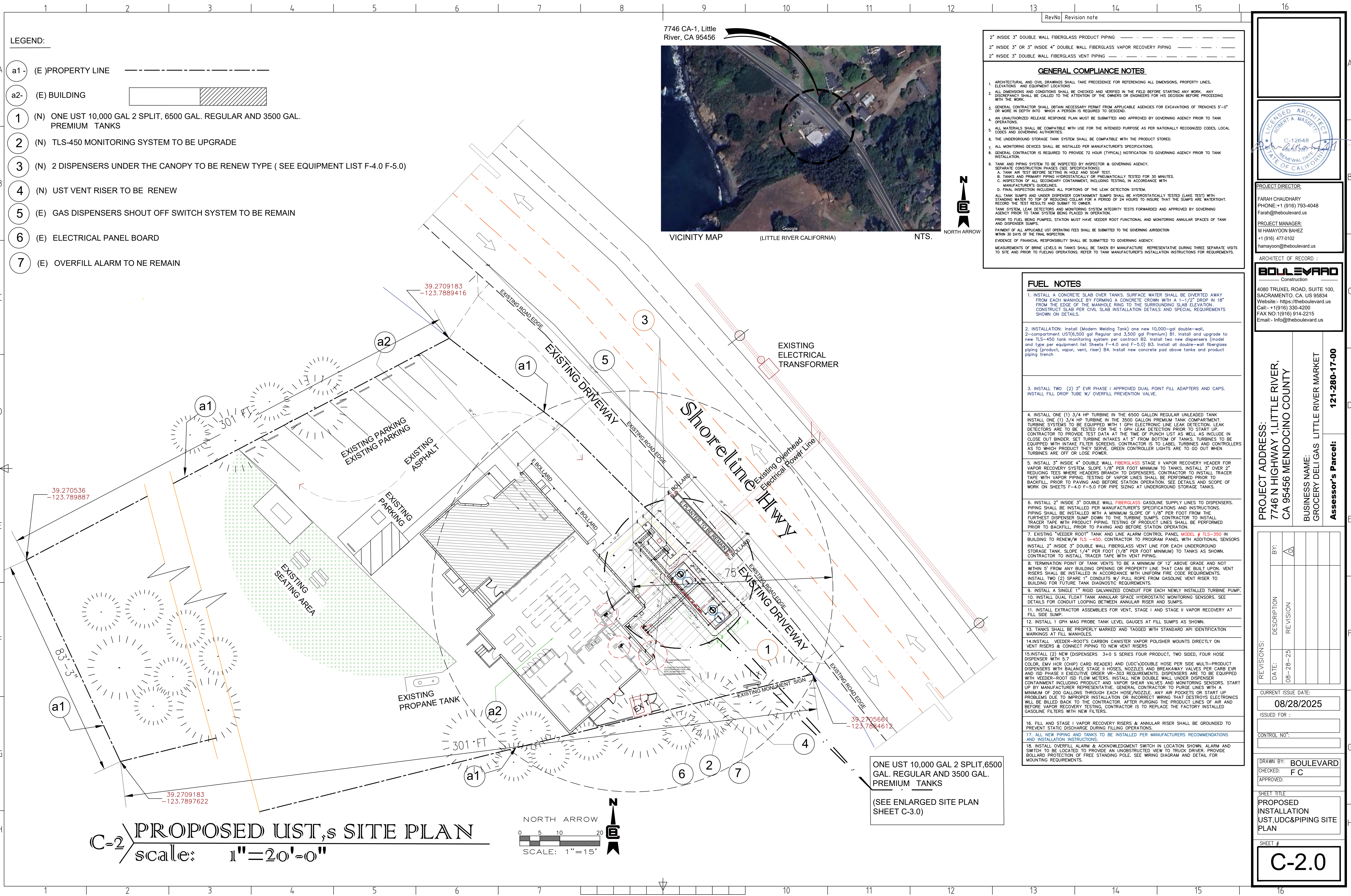
ISSUED FOR :

CONTROL NO.:

DRAWN BY: BOULEVARD
CHECKED: F C
APPROVED:

SHEET TITLE
EXISTING SITE PLAN

SHEET #
C-1.0



- LEGEND:
- a1- (E) PROPERTY LINE
 - a2- (E) BUILDING
 - 1 (N) ONE UST 10,000 GAL 2 SPLIT, 6500 GAL. REGULAR AND 3500 GAL. PREMIUM TANKS
 - 2 (N) TLS-450 MONITORING SYSTEM TO BE UPGRADE
 - 3 (N) 2 DISPENSERS UNDER THE CANOPY TO BE RENEW TYPE (SEE EQUIPMENT LIST F-4.0 F-5.0)
 - 4 (N) UST VENT RISER TO BE RENEW
 - 5 (E) GAS DISPENSERS SHOUT OFF SWITCH SYSTEM TO BE REMAIN
 - 6 (E) ELECTRICAL PANEL BOARD
 - 7 (E) OVERFILL ALARM TO NE REMAIN

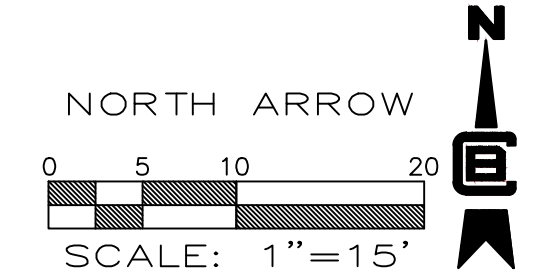


- 2" INSIDE 3" DOUBLE WALL FIBERGLASS PRODUCT PIPING
- 2" INSIDE 3" OR 3" INSIDE 4" DOUBLE WALL FIBERGLASS VAPOR RECOVERY PIPING
- 2" INSIDE 3" DOUBLE WALL FIBERGLASS VENT PIPING
- GENERAL COMPLIANCE NOTES**
- ARCHITECTURAL AND CIVIL DRAWINGS SHALL TAKE PRECEDENCE FOR REFERENCING ALL DIMENSIONS, PROPERTY LINES, ELEVATIONS AND EQUIPMENT LOCATIONS.
 - ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BEFORE STARTING ANY WORK. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE OWNERS OR ENGINEERS FOR HIS DECISION BEFORE PROCEEDING WITH THE WORK.
 - GENERAL CONTRACTOR SHALL OBTAIN NECESSARY PERMIT FROM APPLICABLE AGENCIES FOR EXCAVATIONS OF TRENCHES 5'-0" OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND.
 - AN UNAUTHORIZED RELEASE RESPONSE PLAN MUST BE SUBMITTED AND APPROVED BY GOVERNING AGENCY PRIOR TO TANK OPERATIONS.
 - ALL MATERIALS SHALL BE COMPATIBLE WITH USE FOR THE INTENDED PURPOSE AS PER NATIONALLY RECOGNIZED CODES, LOCAL CODES AND GOVERNING AUTHORITIES.
 - THE UNDERGROUND STORAGE TANK SYSTEM SHALL BE COMPATIBLE WITH THE PRODUCT STORED.
 - ALL MONITORING DEVICES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - GENERAL CONTRACTOR IS REQUIRED TO PROVIDE 72 HOUR (TYPICAL) NOTIFICATION TO GOVERNING AGENCY PRIOR TO TANK INSTALLATION.
 - TANK AND PIPING SYSTEM TO BE INSPECTED BY INSPECTOR & GOVERNING AGENCY. SEPARATE CONSTRUCTION PHASES (SEE SPECIFICATIONS):
 - A. TANK AIR TEST BEFORE SETTING IN HOLE AND SOAP TEST.
 - B. TANKS AND PRIMARY PIPING HYDROSTATICALLY OR PNEUMATICALLY TESTED FOR 30 MINUTES.
 - C. INSPECTION OF ALL SECONDARY CONTAINMENT, INCLUDING TESTING, IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
 - D. FINAL INSPECTION INCLUDING ALL PORTIONS OF THE LEAK DETECTION SYSTEM.ALL TANK Sumps AND UNDER DISPENSER CONTAINMENT Sumps SHALL BE HYDROSTATICALLY TESTED (LIME TEST) WITH STANDING WATER TO TOP OF REDUCING COLLAR FOR A PERIOD OF 24 HOURS TO INSURE THAT THE Sumps ARE WATERTIGHT. RECORD THE TEST RESULTS AND SUBMIT TO OWNER.
 - TANK SYSTEM LEAK DETECTORS AND MONITORING SYSTEM INTEGRITY TESTS FORWARDED AND APPROVED BY GOVERNING AGENCY PRIOR TO TANK SYSTEM BEING PLACED IN OPERATION.
 - PRIOR TO FUEL BEING PUMPED, STATION MUST HAVE VEEDER ROOT FUNCTIONAL AND MONITORING ANNULAR SPACES OF TANK AND DISPENSER Sumps.
 - PAYMENT OF ALL APPLICABLE UST OPERATING FEES SHALL BE SUBMITTED TO THE GOVERNING JURISDICTION WITHIN 30 DAYS OF THE FINAL INSPECTION.
 - EVIDENCE OF FINANCIAL RESPONSIBILITY SHALL BE SUBMITTED TO GOVERNING AGENCY.
 - MEASUREMENTS OF BRINE LEVELS IN TANKS SHALL BE TAKEN BY MANUFACTURE REPRESENTATIVE DURING THREE SEPARATE VISITS TO SITE AND PRIOR TO FUELING OPERATIONS. REFER TO TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIREMENTS.

- FUEL NOTES**
- INSTALLATION: Install (Modern Welding Tank) one new 10,000-gal double-wall, 2-compartment UST(6,500 gal Regular and 3,500 gal Premium) B1. Install and upgrade to new TLS-450 tank monitoring system per contract B2. Install two new dispensers (model and type per equipment list Sheets F-4.0 and F-5.0) B3. Install all double-wall fiberglass piping (product, vapor, vent, riser) B4. Install new concrete pad above tanks and product piping trench.
 - INSTALL ONE (1) 3/4 HP TURBINE IN THE 6500 GALLON REGULAR UNLEADED TANK. INSTALL ONE (1) 3/4 HP TURBINE IN THE 3500 GALLON PREMIUM TANK COMPARTMENT. TURBINE SYSTEMS TO BE EQUIPPED WITH 1 GPH ELECTRONIC LINE LEAK DETECTION. LEAK DETECTORS ARE TO BE TESTED FOR THE 1 GPH LEAK DETECTION PRIOR TO START UP. CONTRACTOR TO PROVIDE TEST DATA AT THE TIME OF PUNCH LIST AS WELL AS INCLUDE IN CLOSE OUT BIDDING. SET TURBINE INTAKES AT 5" FROM BOTTOM OF TANKS. TURBINES TO BE EQUIPPED WITH INTAKE FILTER SCREENS. CONTRACTOR IS TO LABEL TURBINES AND CONTROLLERS AS TO WHICH PRODUCT THEY SERVE. GREEN CONTROLLER LIGHTS ARE TO GO OUT WHEN TURBINES ARE OFF OR LOSE POWER.
 - INSTALL 2" INSIDE 4" DOUBLE WALL FIBERGLASS STAGE II VAPOR RECOVERY HEADER FOR VAPOR RECOVERY SYSTEM. SLOPE 1/8" PER FOOT MINIMUM TO TANKS. INSTALL 3" OVER 2" REDUCING TEES WHERE HEADERS BRANCH TO DISPENSERS. CONTRACTOR TO INSTALL TRACER TAPE WITH VAPOR PIPING. TESTING OF VAPOR LINES SHALL BE PERFORMED PRIOR TO BACKFILL. PRIOR TO PAVING AND BEFORE STATION OPERATION. SEE DETAILS AND SCOPE OF WORK ON SHEETS F-4.0 F-5.0 FOR PIPE SIZING AT UNDERGROUND STORAGE TANKS.
 - INSTALL 2" INSIDE 3" DOUBLE WALL FIBERGLASS GASOLINE SUPPLY LINES TO DISPENSERS. PIPING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT FROM THE FURTHEST DISPENSER SUMP DOWN TO THE TURBINE Sumps. CONTRACTOR TO INSTALL TRACER TAPE WITH PRODUCT PIPING. TESTING OF PRODUCT LINES SHALL BE PERFORMED PRIOR TO BACKFILL. PRIOR TO PAVING AND BEFORE STATION OPERATION.
 - EXISTING "VEEDER ROOT" TANK AND LINE ALARM CONTROL PANEL. MODEL # TLS-350 IN BUILDING TO RENEW W/ TLS-450. CONTRACTOR TO PROGRAM PANEL WITH ADDITIONAL SENSORS. INSTALL 2" INSIDE 3" DOUBLE WALL FIBERGLASS VENT LINE FOR EACH UNDERGROUND STORAGE TANK. SLOPE 1/4" PER FOOT (1/8" PER FOOT MINIMUM) TO TANKS AS SHOWN. CONTRACTOR TO INSTALL TRACER TAPE WITH VENT PIPING.
 - TERMINATION POINT OF TANK VENTS TO BE A MINIMUM OF 12' ABOVE GRADE AND NOT WITHIN 5' FROM ANY BUILDING OPENING OR PROPERTY LINE THAT CAN BE BUILT UPON. VENT RISERS SHALL BE INSTALLED IN ACCORDANCE WITH UNIFORM FIRE CODE REQUIREMENTS. INSTALL TWO (2) SPARE 1" CONDUITS W/ PULL ROPE FROM GASOLINE VENT RISER TO BUILDING FOR FUTURE TANK DIAGNOSTIC REQUIREMENTS.
 - INSTALL A SINGLE 1" RIGID GALVANIZED CONDUIT FOR EACH NEWLY INSTALLED TURBINE PUMP.
 - INSTALL DUAL FLOAT TANK ANNULAR SPACE HYDROSTATIC MONITORING SENSORS. SEE DETAILS FOR CONDUIT LOOPING BETWEEN ANNULAR RISER AND Sumps.
 - INSTALL EXTRACTOR ASSEMBLIES FOR VENT, STAGE I AND STAGE II VAPOR RECOVERY AT FILL SIDE SUMP.
 - INSTALL 1 GPH MAG PROBE TANK LEVEL GAUGES AT FILL Sumps AS SHOWN.
 - TANKS SHALL BE PROPERLY MARKED AND TAGGED WITH STANDARD API IDENTIFICATION MARKINGS AT FILL MANHOLES.
 - INSTALL "VEEDER-ROOT'S" CARBON CANISTER VAPOR POLISHER MOUNTS DIRECTLY ON VENT RISERS & CONNECT PIPING TO NEW VENT RISERS.
 - INSTALL (2) NEW (DISPENSERS) 340 S SERIES FOUR PRODUCT, TWO SIDED, FOUR HOSE DISPENSER WITH 5.7 COLOR, EASY HCR (SHIP) CARD READER) AND (UDC) DOUBLE HOSE PER SIDE MULTI-PRODUCT DISPENSERS WITH BALANCE STAGE II HOSES, NOZZLES AND BREAKAWAY VALVES PER CARB EVR AND ISO PHASE II EXECUTIVE ORDER VR-303 REQUIREMENTS. DISPENSERS ARE TO BE EQUIPPED WITH VEEDER-ROOT ISO FLOW METERS. INSTALL NEW DOUBLE WALL UNDER DISPENSER CONTAINMENT INCLUDING PRODUCT AND VAPOR SHEAR VALVES AND MONITORING SENSORS. START UP BY MANUFACTURER REPRESENTATIVE. GENERAL CONTRACTOR TO PURGE LINES WITH A MINIMUM OF 200 GALLONS THROUGH EACH HOSE/NOZZLE. ANY AIR POCKETS OR START UP PROBLEMS DUE TO IMPROPER INSTALLATION OR INCORRECT WIRING THAT DESTROYS ELECTRONICS WILL BE BILLED BACK TO THE CONTRACTOR. CONTRACTOR TO PURGE THE PRODUCT LINES OF AIR AND BEFORE VAPOR RECOVERY TESTING, CONTRACTOR IS TO REPLACE THE FACTORY INSTALLED GASOLINE FILTERS WITH NEW FILTERS.
 - FILL AND STAGE I VAPOR RECOVERY RISERS & ANNULAR RISER SHALL BE GROUNDED TO PREVENT STATIC DISCHARGE DURING FILLING OPERATIONS.
 - ALL NEW PIPING AND TANKS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
 - INSTALL OVERFILL ALARM & ACKNOWLEDGMENT SWITCH IN LOCATION SHOWN. ALARM AND SWITCH TO BE LOCATED TO PROVIDE AN UNOBSTRUCTED VIEW TO TRUCK DRIVER. PROVIDE BOLLARD PROTECTION OF FREE STANDING POLE. SEE WIRING DIAGRAM AND DETAIL FOR MOUNTING REQUIREMENTS.

ONE UST 10,000 GAL 2 SPLIT, 6500 GAL. REGULAR AND 3500 GAL. PREMIUM TANKS
(SEE ENLARGED SITE PLAN SHEET C-3.0)

C-2 PROPOSED UST,s SITE PLAN
scale: 1"=20'-0"



RevNo Revision note

7746 CA-1, Little River, CA 95456

Google

VICINITY MAP (LITTLE RIVER CALIFORNIA) NTS.

NORTH ARROW

PROJECT DIRECTOR:
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PROJECT MANAGER:
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ARCHITECT OF RECORD:
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4080 TRUXEL ROAD, SUITE 100,
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Email: - info@theboulevard.us

PROJECT ADDRESS:
7746 N HIGHWAY 1, LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:
121-280-17-00

REVISIONS:	DATE:	DESCRIPTION:	REVISION:
	08-28-25		

CURRENT ISSUE DATE:
08/28/2025

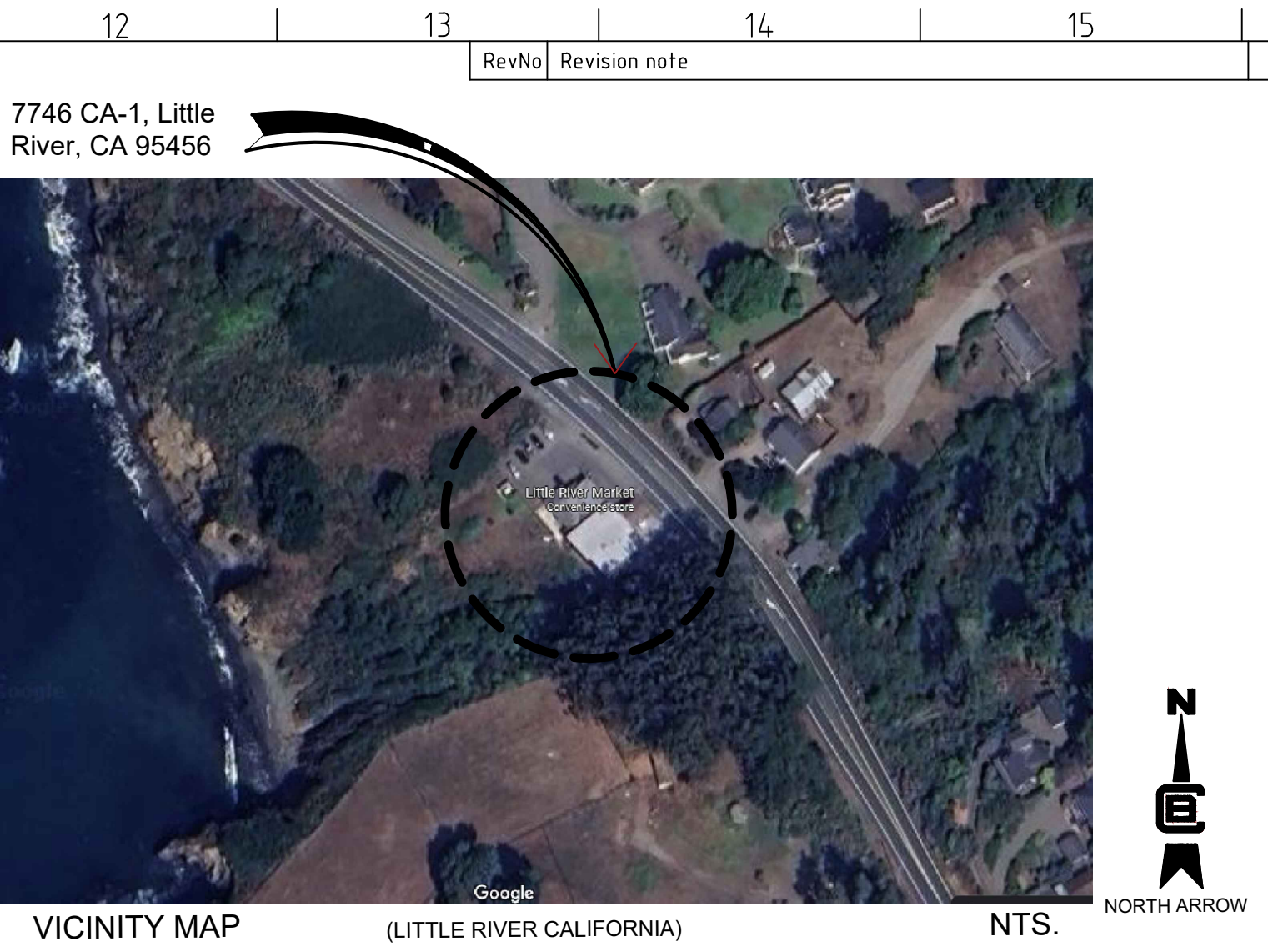
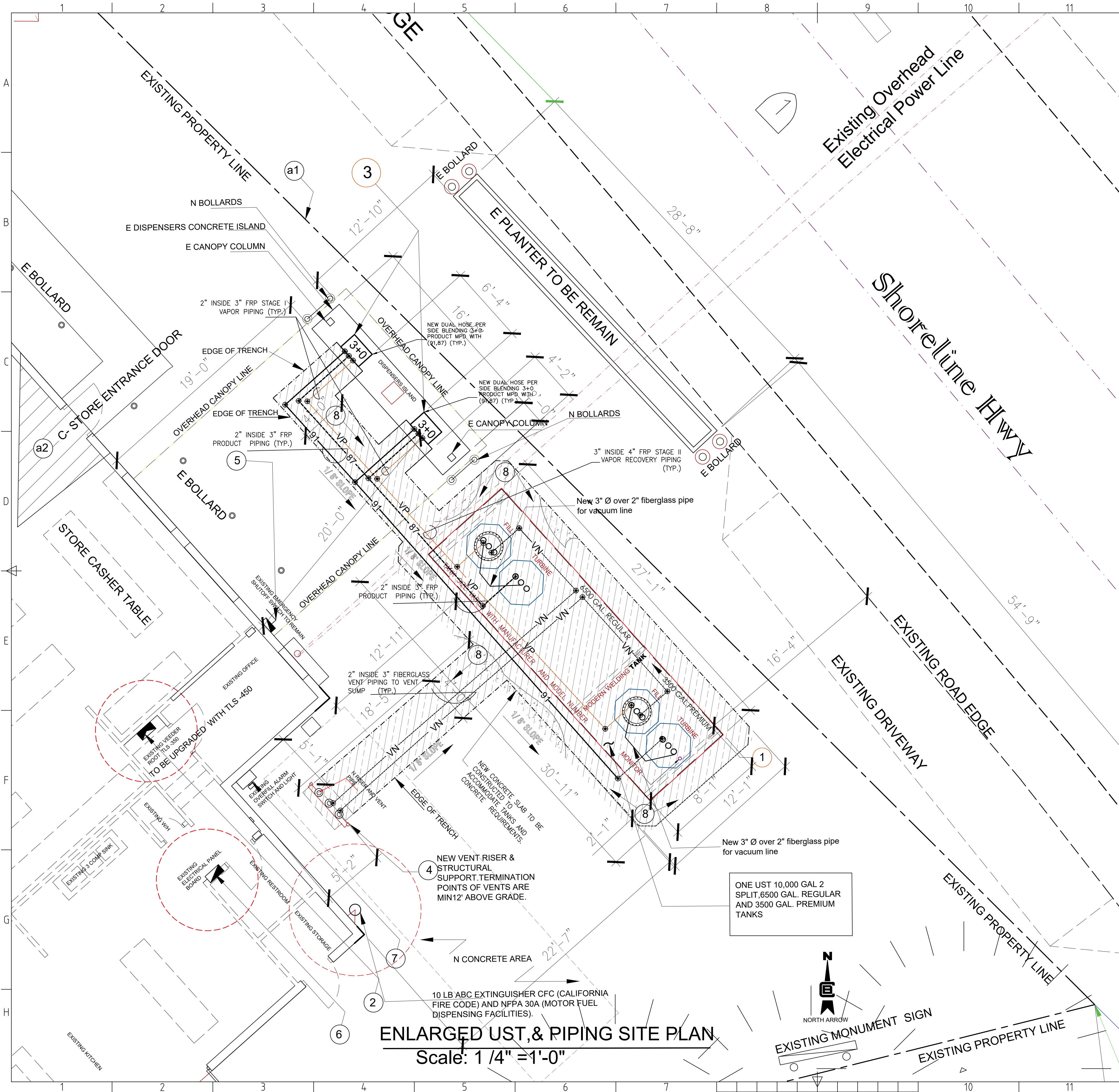
ISSUED FOR:

CONTROL NO.:

DRAWN BY: BOULEVARD
CHECKED: F C
APPROVED:

SHEET TITLE
PROPOSED
INSTALLATION
UST,UDC&PIPING SITE
PLAN

SHEET #
C-2.0



VICINITY MAP (LITTLE RIVER CALIFORNIA) NTS.

LEGEND:

a1	E PROPERTY LINE
a2	E BUILDING
1	(N) ONE UST 10,000 GAL 2 SPLIT, 6500 GAL. REGULAR AND 3500 GAL. PREMIUM TANK
2	(N) TLS-450 MONITORING SYSTEM TO BE UPGRADE
3	(N) 2 DISPENSERS UNDER THE CANOPY TO BE RENEW TYPE (SEE EQUIPMENT LIST F-4.0 F-5.0)
4	(N) UST VENT RISER TO BE RENEW
5	(E) GAS DISPENSERS SHOUT OFF SWITCH SYSTEM TO BE REMAIN
6	(E) ELECTRICAL PANEL BOARD
7	(E) OVERFILL ALARM TO BE REMAIN
8	(N) PIPING TRENCH AND TANK INSTALLATION AREA (572) SQ FT

USTs AND UDCs FIBERGLASS PRODUCTS PIPES

PREMIUM (91)
REGULAR (87)
VAPOR PIPE (VP)
VENT PIPE (VN)

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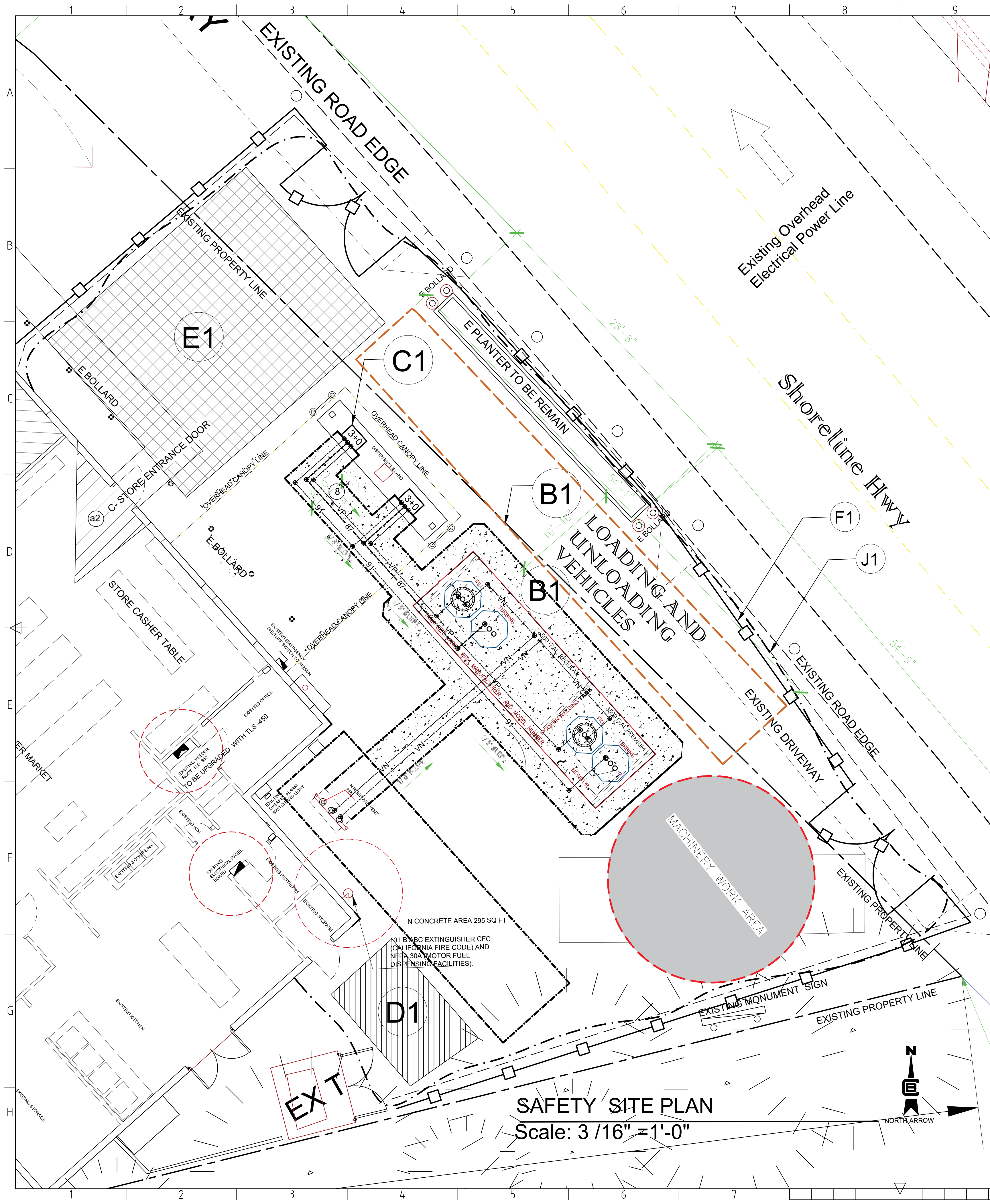
ISSUED FOR :

CONTROL NO.:

DRAWN BY: BOULEVARD
CHECKED: F C
APPROVED:

SHEET TITLE:
ENLARGED
INSTALLATION
USTs, UDCs & PIPING
SITE PLAN

SHEET #
C-3.0



MACHINERY WORK AREA – GENERAL NOTES

All machinery work areas shall be clearly marked and kept free of obstructions.

Only authorized personnel shall be permitted within the machinery operation zone.

Adequate clearance shall be provided around equipment for safe operation, servicing, and maintenance.

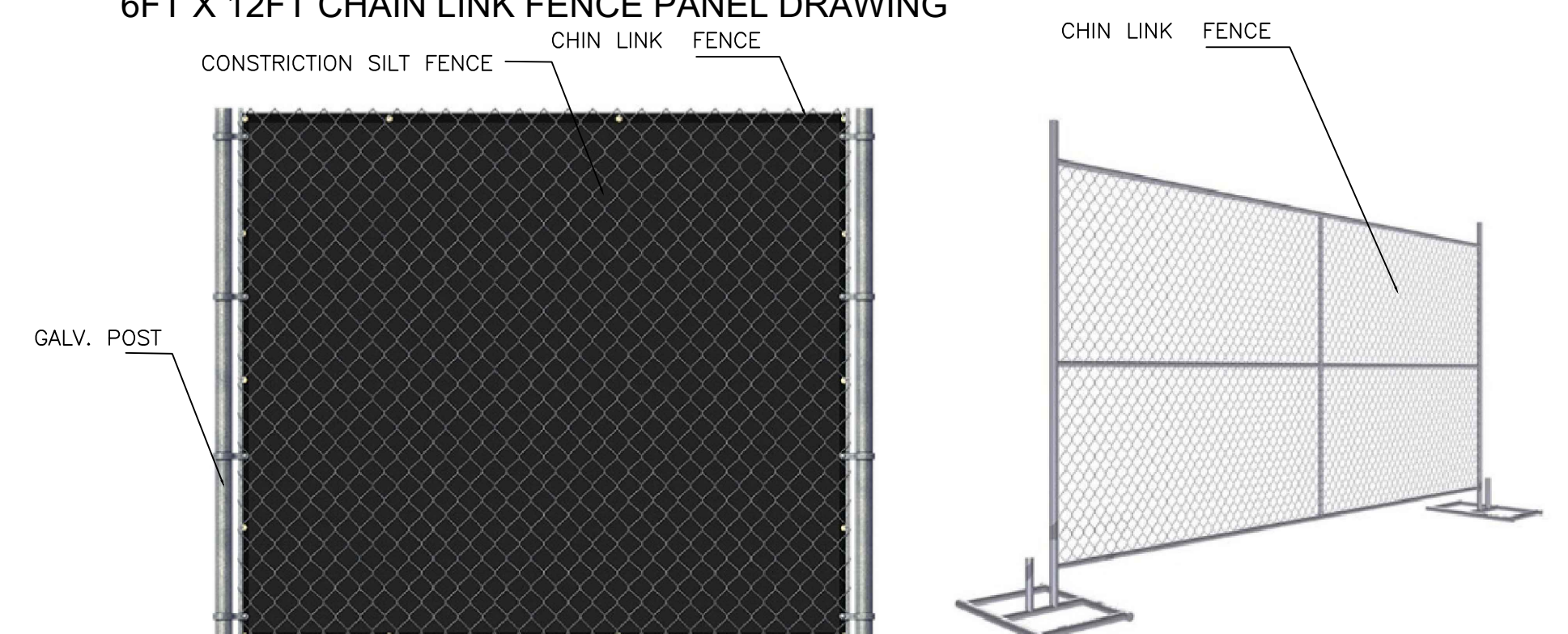
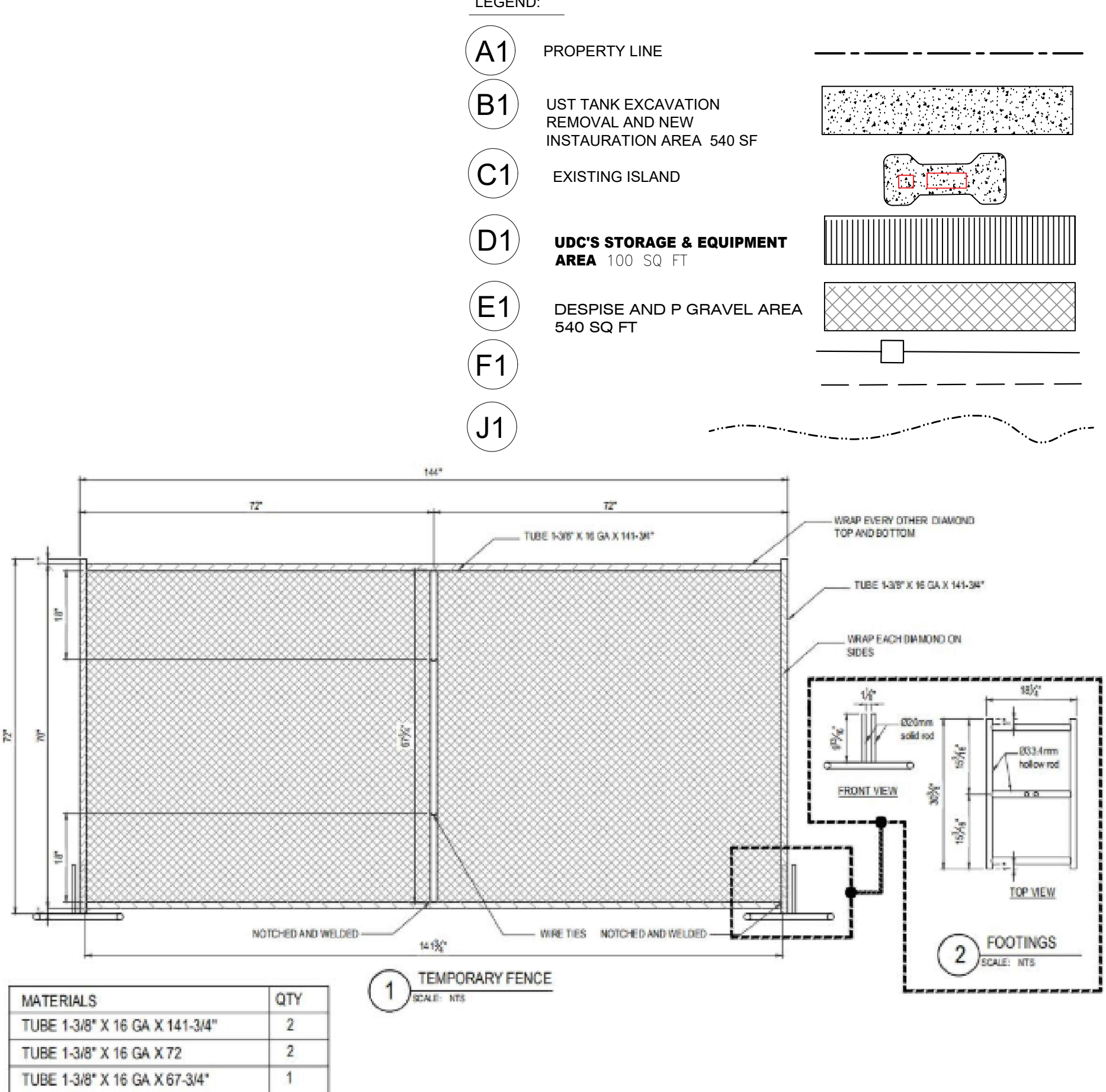
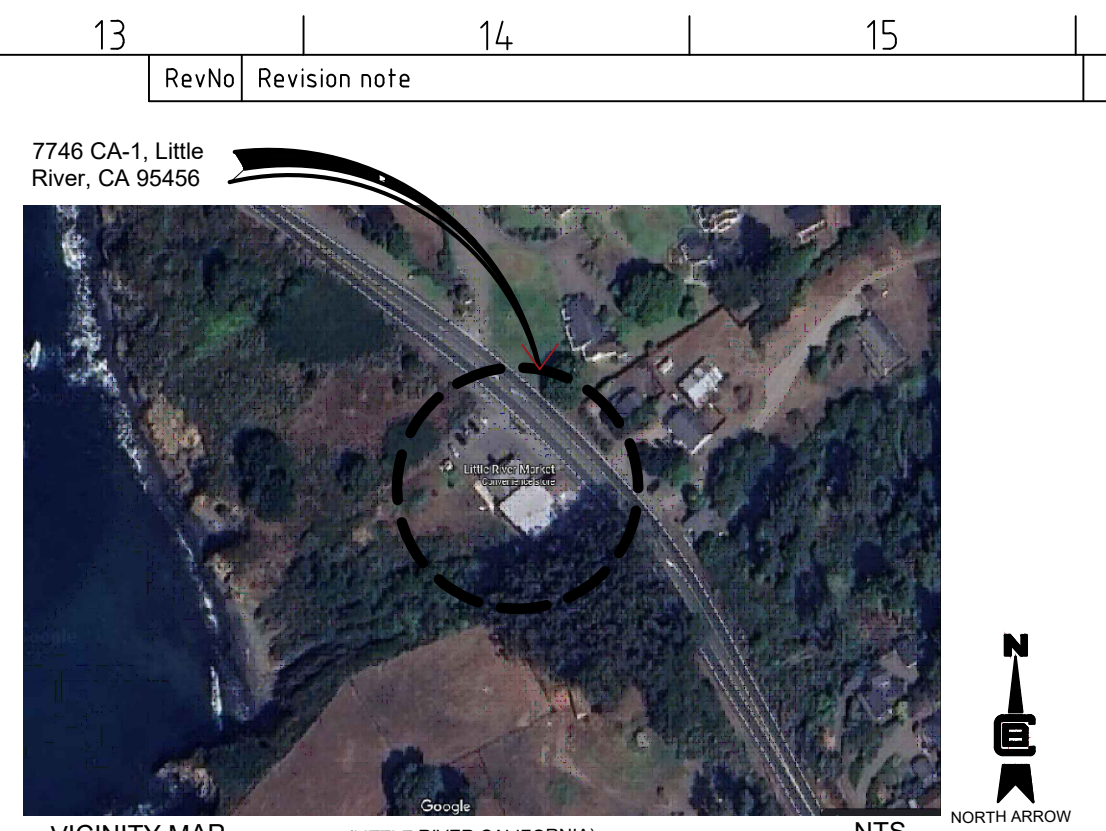
Barriers, cones, or fencing shall be installed as required to separate the machinery work area from pedestrian or vehicle traffic.

OSHA-compliant signage shall be posted indicating "MACHINERY WORK AREA –AUTHORIZED PERSONNEL ONLY."

All operators shall be trained and certified per OSHA and manufacturer requirements.

Proper PPE (hard hats, safety vests, steel-toed boots, gloves, and hearing protection) shall be worn within the designated machinery area.

Dust control, noise mitigation, and safety spotters shall be provided as necessary during operations.



7746 CA-1, Little River, CA 95456

RevNo

Revision note

13

14

15

16

LICENSED ARCHITECT

ROBERT A. MASSETT

C-12648

RENEWAL DATE: 08/28/2025

STATE OF CALIFORNIA

PROJECT DIRECTOR:

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Assessor's Parcel:

121-280-17-00

REVISIONS:

DATE

DESCRIPTION

REVISION

08-28-25

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ISSUED FOR :

CONTROL NO.:

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CHECKED:

F C

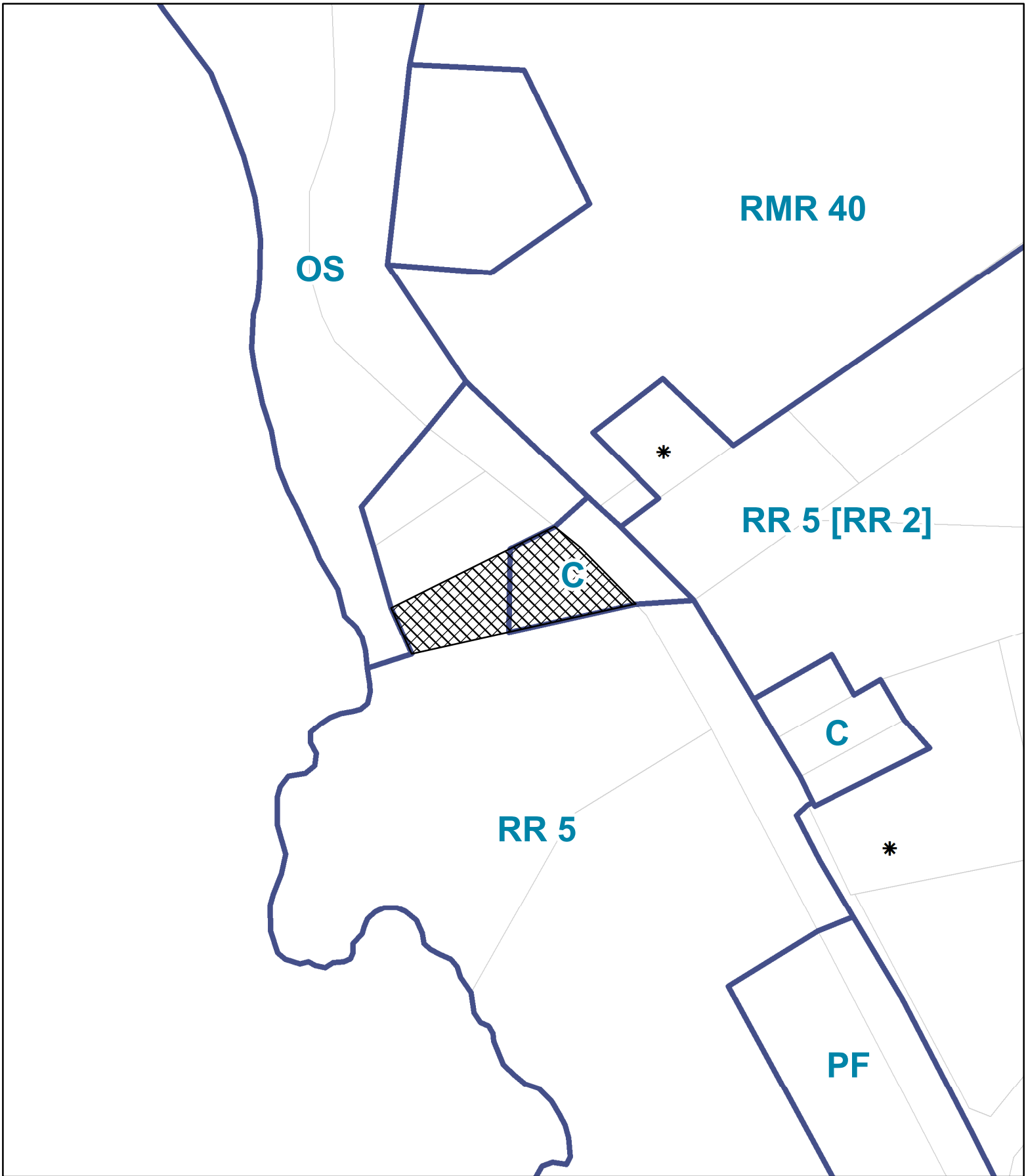
APPROVED:

SHEET TITLE



SAFETY & TRAFFIC CONTROL PLAN

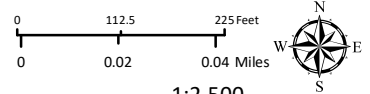
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C-4.0



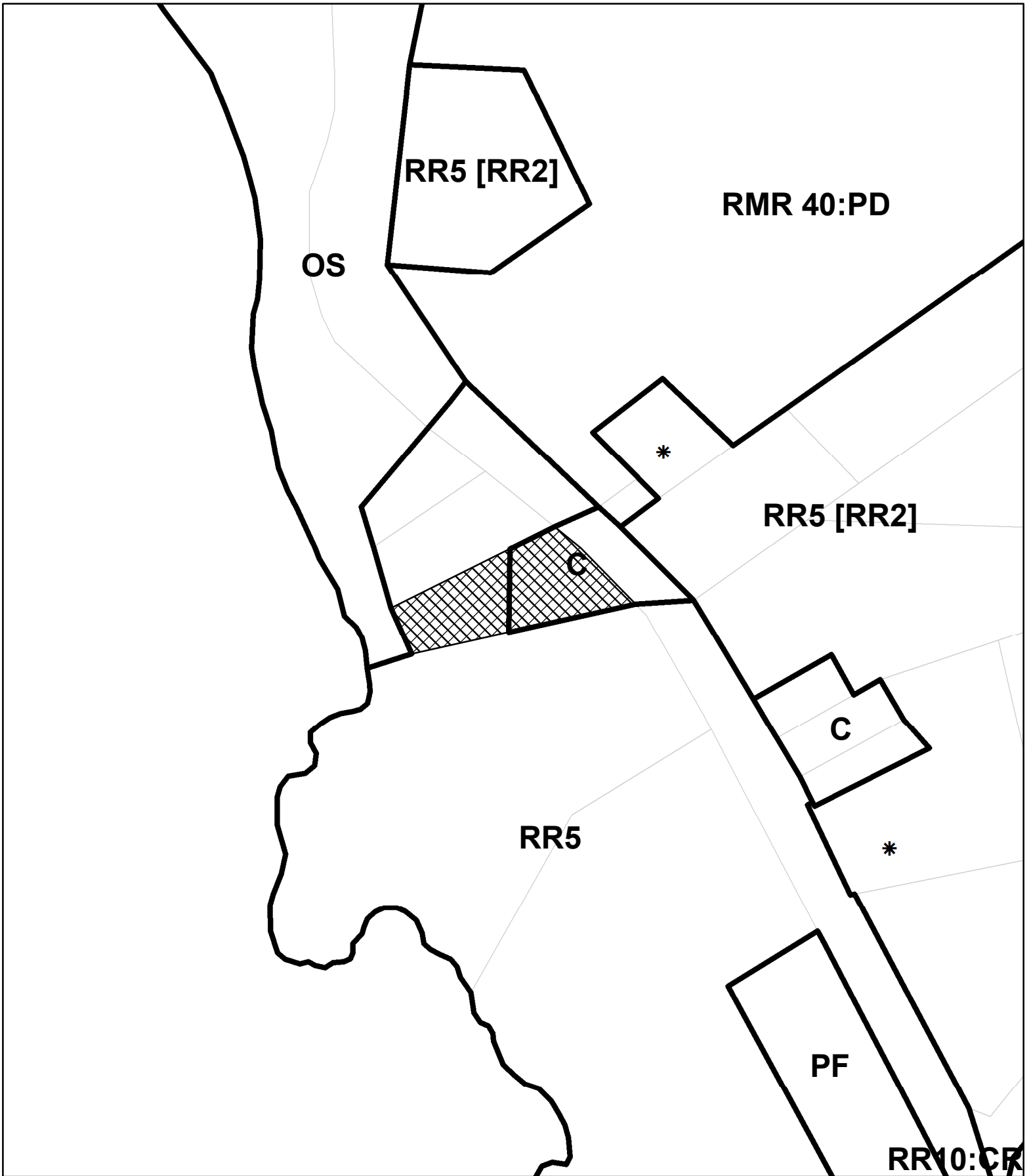
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 Visitor_Accomodation_&_Services
 Assessors Parcels





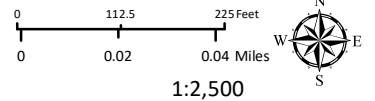
1:2,500
GENERAL PLAN

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DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



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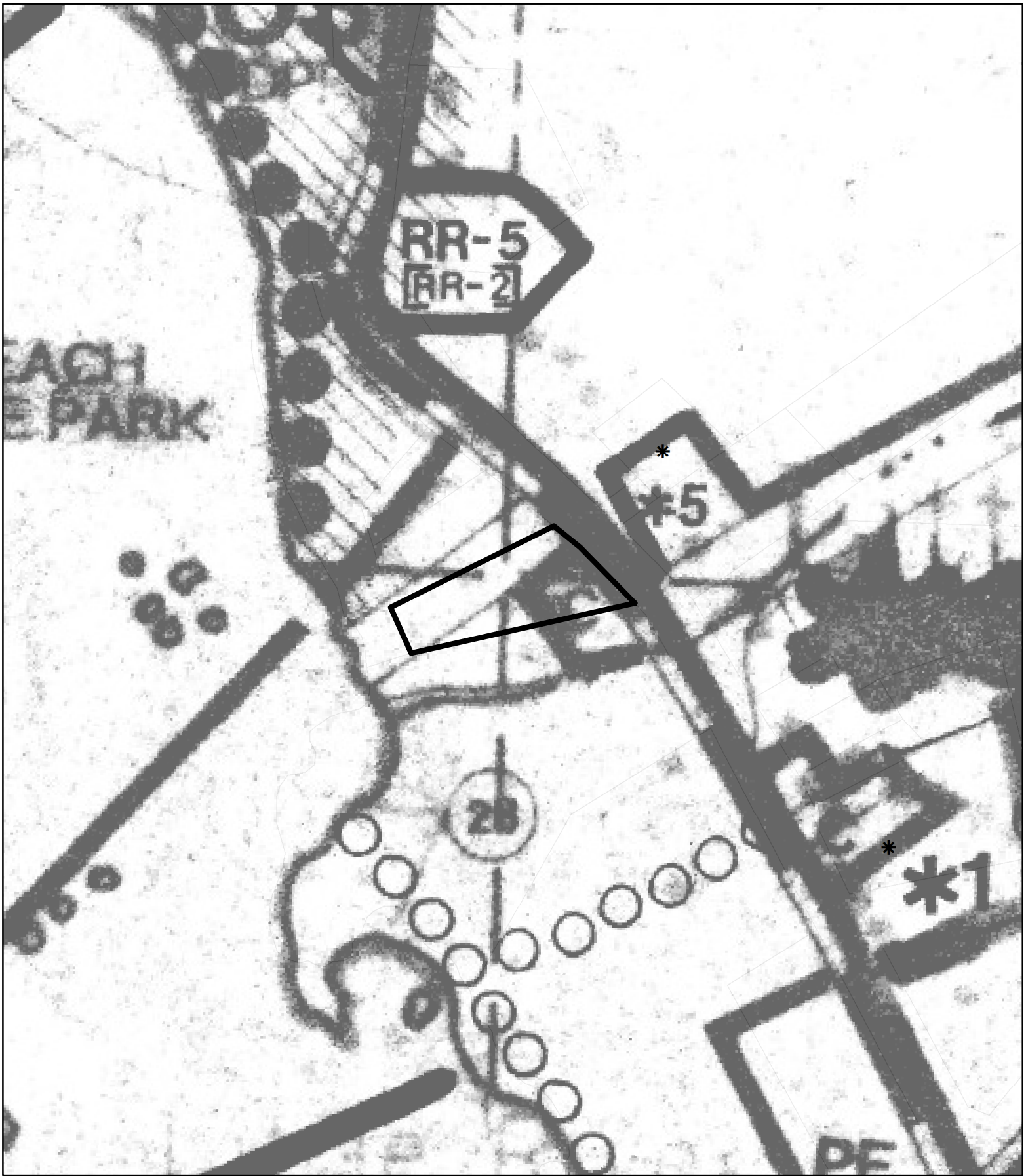
- * Visitor_Accommodation_&_Services
-  Zoning Districts
-  Assessors Parcels



1:2,500

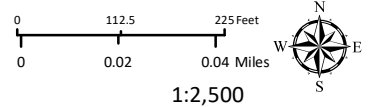
ZONING

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DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



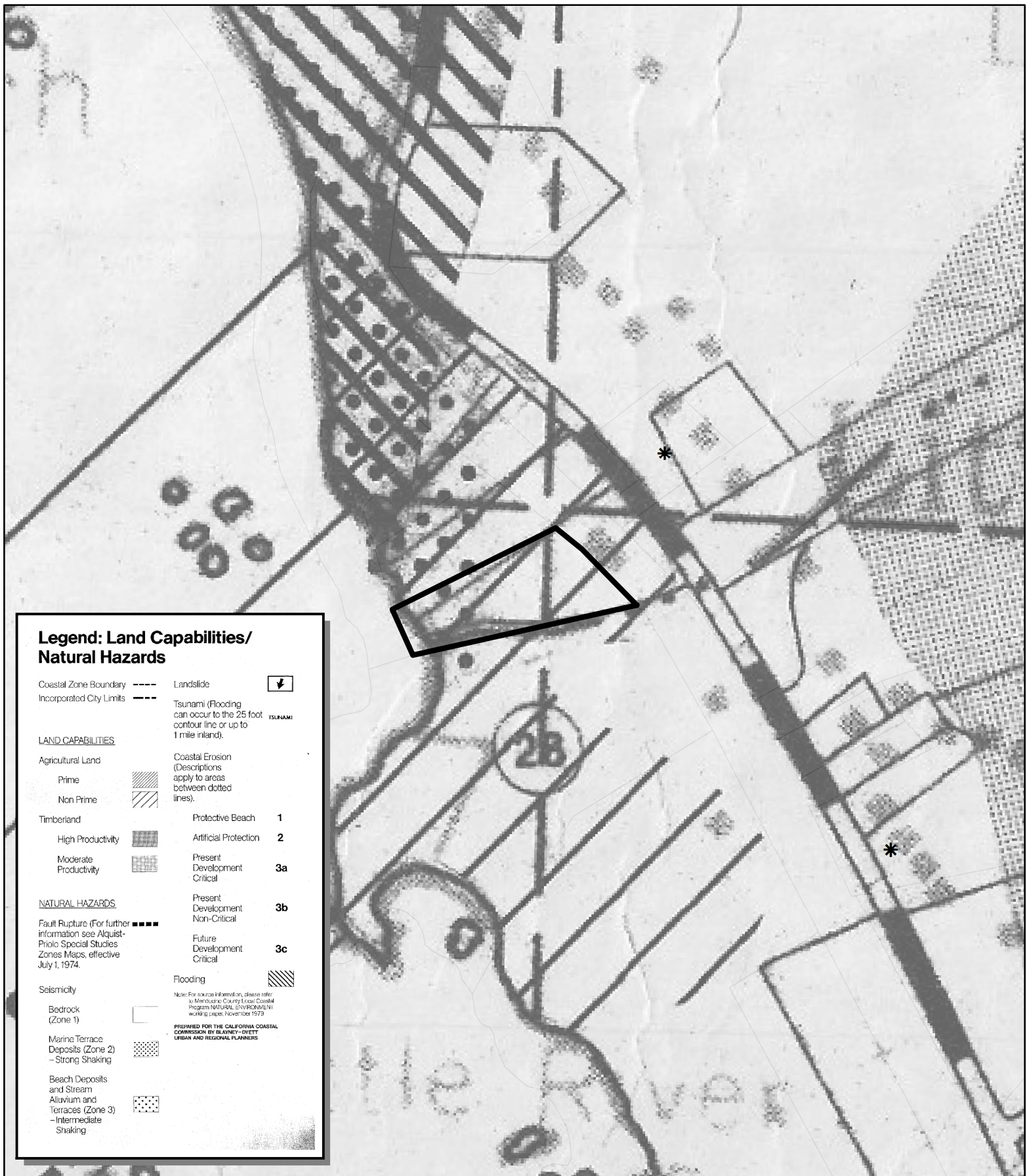
CASE: EM 2025-0002
OWNER: KIM, Young
APN: 121-280-17
APLCT: Young Kim
AGENT: Debra Lennox
ADDRESS: 7746 N Hwy 1, Little River

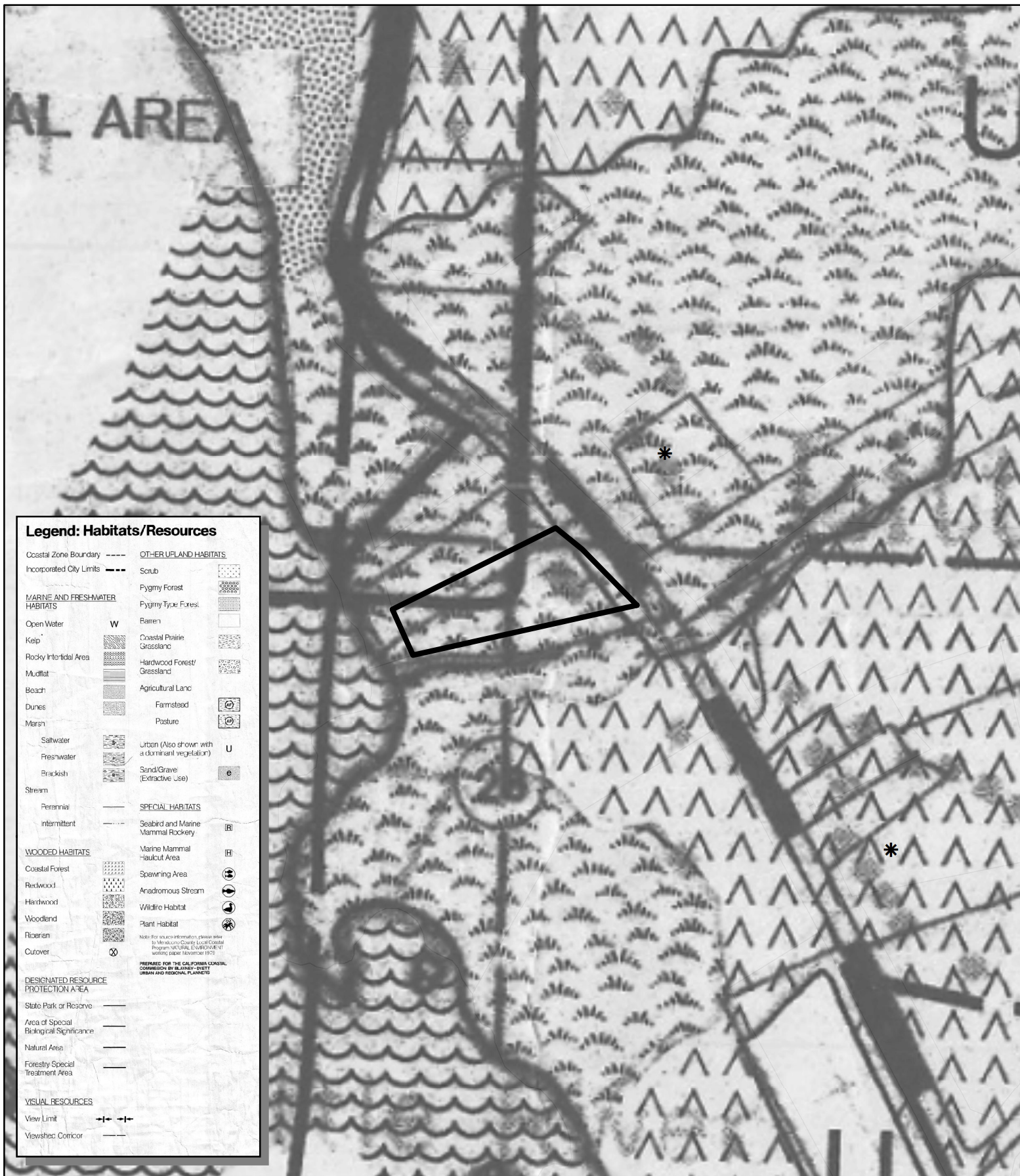
* Visitor Accommodation & Services
Assessors Parcels



1:2,500
LCP LAND USE MAP 17: MENDOCINO

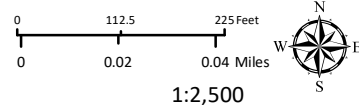
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CASE: EM 2025-0002
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* Visitor_Accommodation_&_Services
 Assessors Parcels



LCP HABITATS & RESOURCES

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Permit Jurisdiction

Appeal Jurisdiction

This map has been prepared to show where the California Coastal Commission retains post-LCP certification permit and appeal jurisdiction pursuant to P.R.C. §30051(b), and §30602(b)(1) and (b)(2). In addition, developments may also be appealable pursuant to P.R.C. §30602(b)(3), (b)(4), and (b)(5). If questions arise concerning the precise location of the boundary of any area depicted in the above sections, the matter should be referred to the local government and/or the Executive Director of the Commission for clarification and information. This data may be updated as appropriate and may not include all lands where post-LCP certification permit and appeal jurisdiction is retained by the Commission.

This area includes lands between the sea and the designated first public road paralleling the sea or 300' from the inland extent of any beach or of the mean high tide line if there is no beach, whichever is the greater distance. Also included are lands within 100' of streams and wetlands and lands within 300' of the top of the seaward face of coastal bluff.

California Coastal Commission

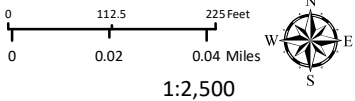
0100030005000

FEET

CASE: EM 2025-0002
OWNER: KIM, Young
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ADDRESS: 7746 N Hwy 1, Little River

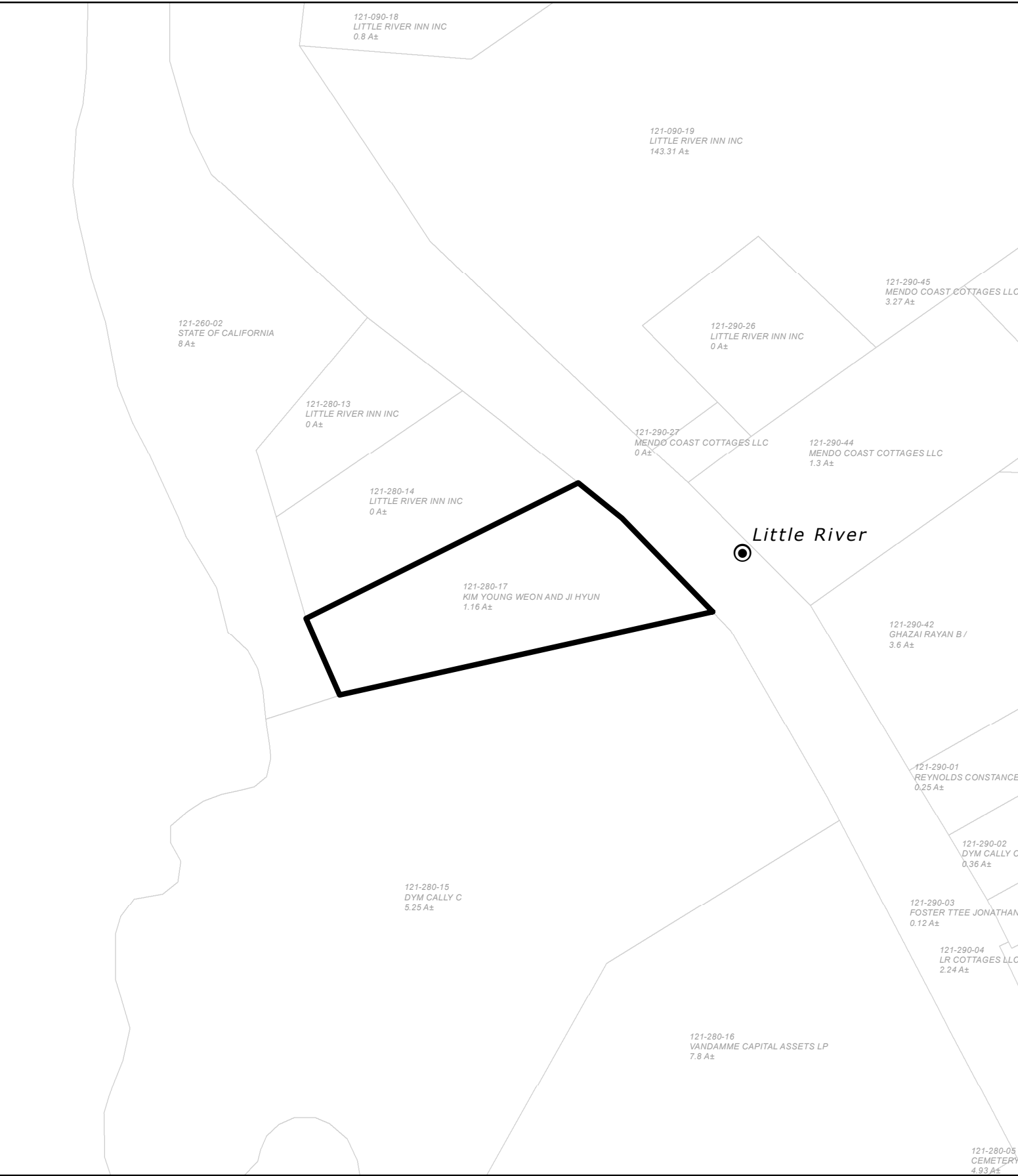
* Visitor Accommodation & Services

Assessors Parcels





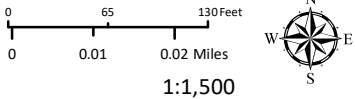
POST LCP CERTIFICATION & APPEAL JURISDICTION

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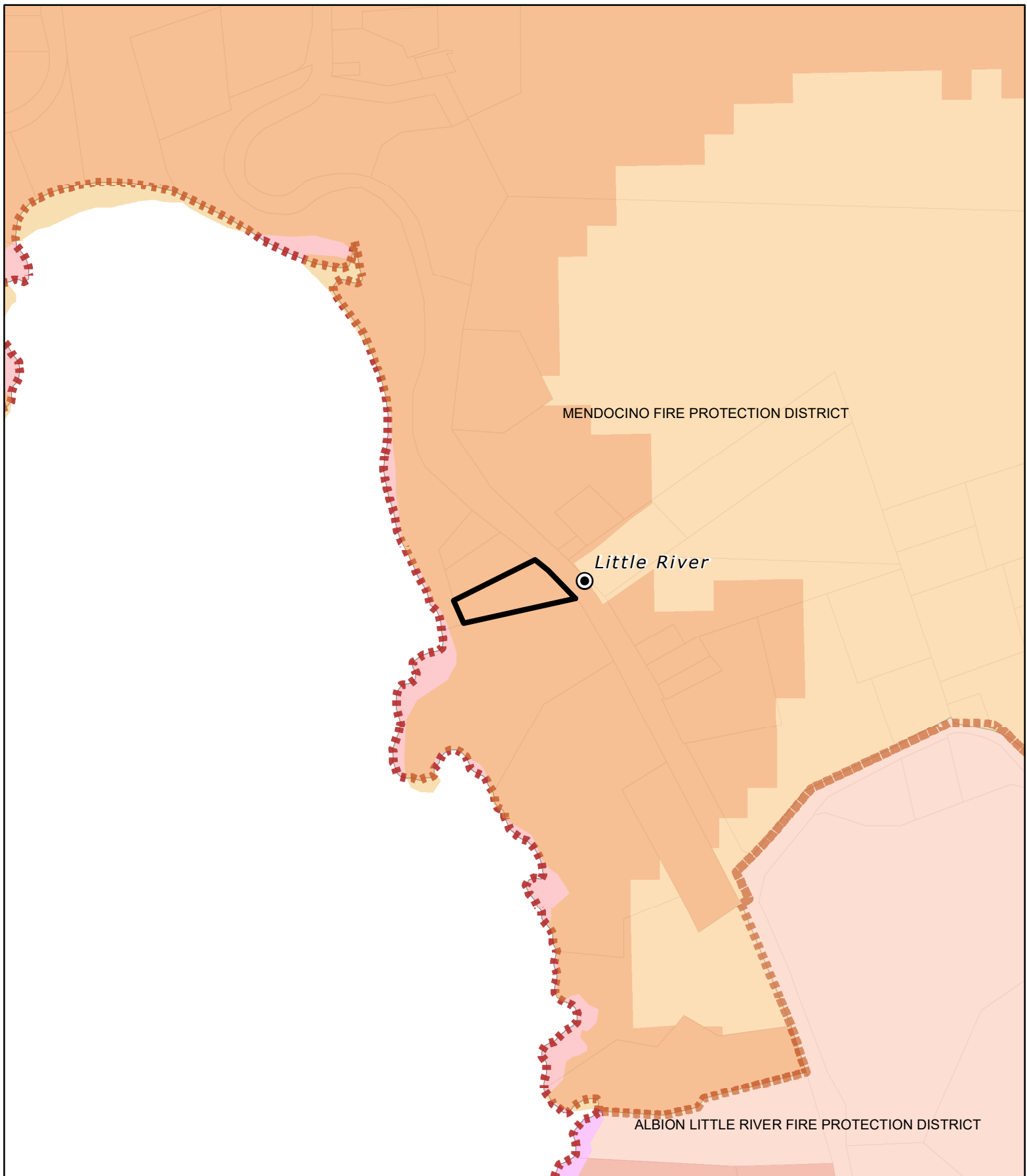
CASE: EM 2025-0002
OWNER: KIM, Young
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ADDRESS: 7746 N Hwy 1, Little River

 Major Towns & Places
 Assessors Parcels



ADJACENT PARCELS

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CASE: EM 2025-0002

OWNER: KIM, Young

APN: 121-280-17

APLCT: Young Kim

AGENT: Debra Lennox

ADDRESS: 7746 N Hwy 1, Little River



Major Towns & Places



County Fire Districts



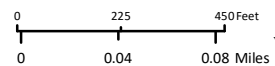
High Fire Hazard



Assessors' Parcels



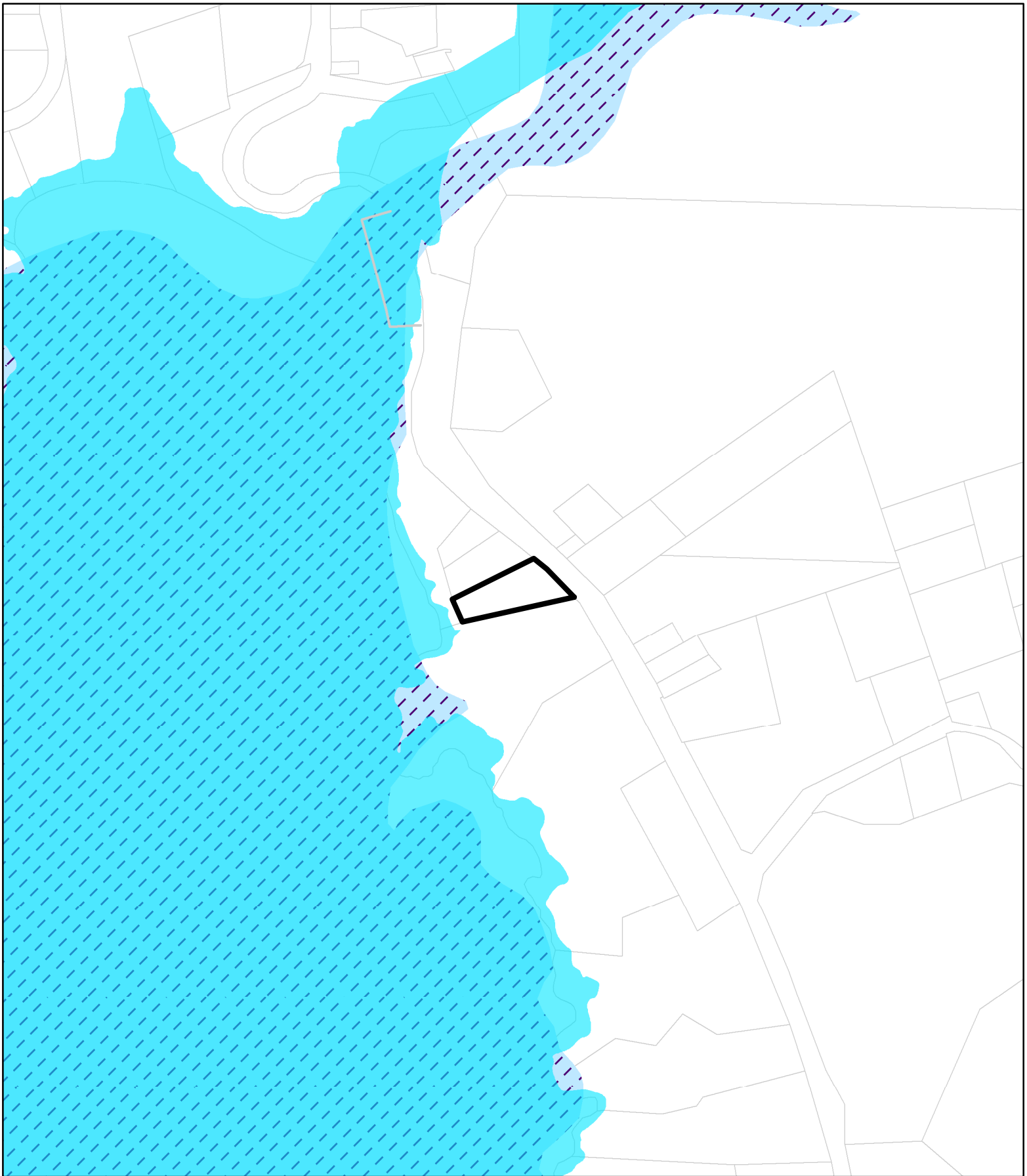
Moderate Fire Hazard



1:5,000

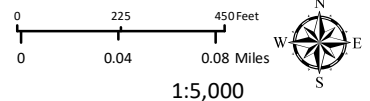
FIRE HAZARD ZONES & RESPONSIBILITY AREAS
STATE RESPONSIBILITY AREA

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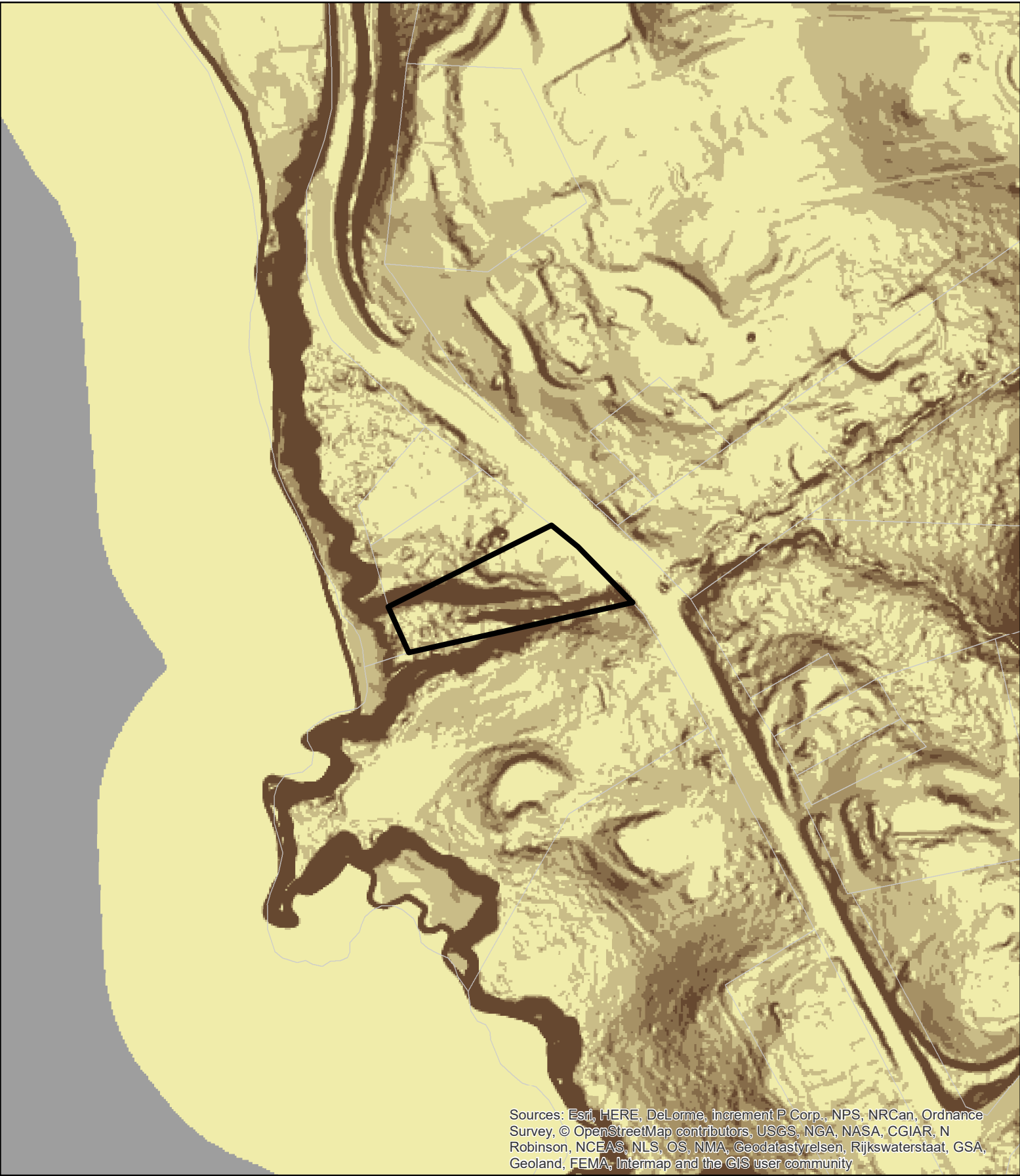
General Structures
Structure Type
Other Structure
Assessors Parcels
1% Annual Chance Flood Hazard
Tsunami Inundation Zones



1:5,000

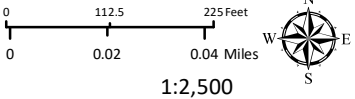
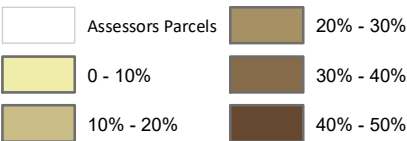
FLOOD & TSUNAMI INUNDATION ZONES

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DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



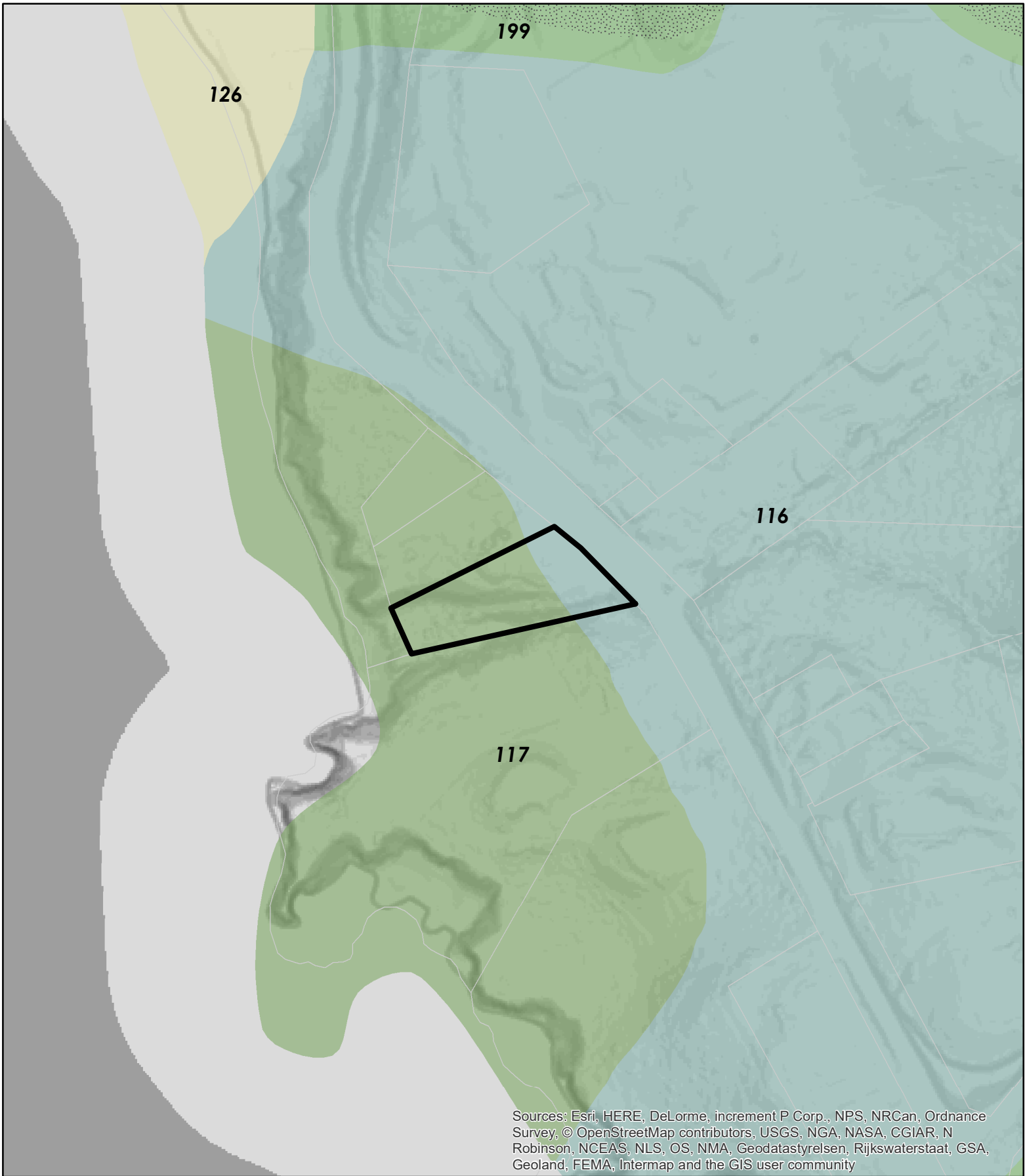
Sources: Esri, HERE, DeLorme, InCREMENT P Corp., NPS, NRCAN, Ordnance Survey, © OpenStreetMap contributors, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

CASE: EM 2025-0002
OWNER: KIM, Young
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



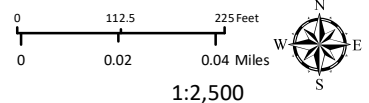
ESTIMATED SLOPE

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DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



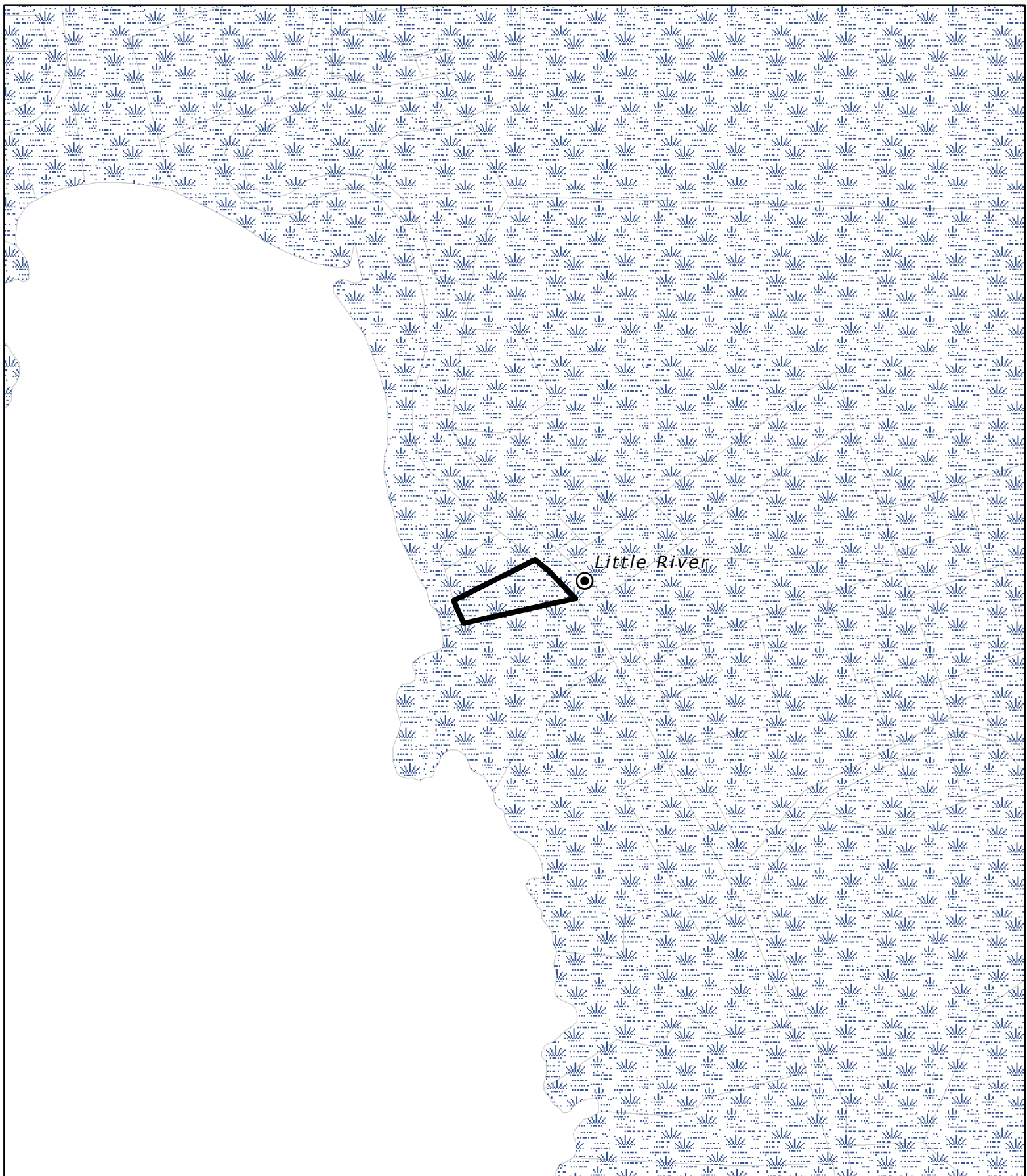
CASE: EM 2025-0002
OWNER: KIM, Young
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AGENT: Debra Lennox
ADDRESS: 7746 N Hwy 1, Little River

-  Assessors Parcels
-  Shinglemill-Gibney Complex






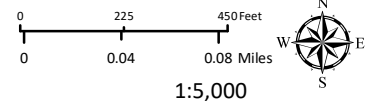
WESTERN SOIL CLASSIFICATIONS

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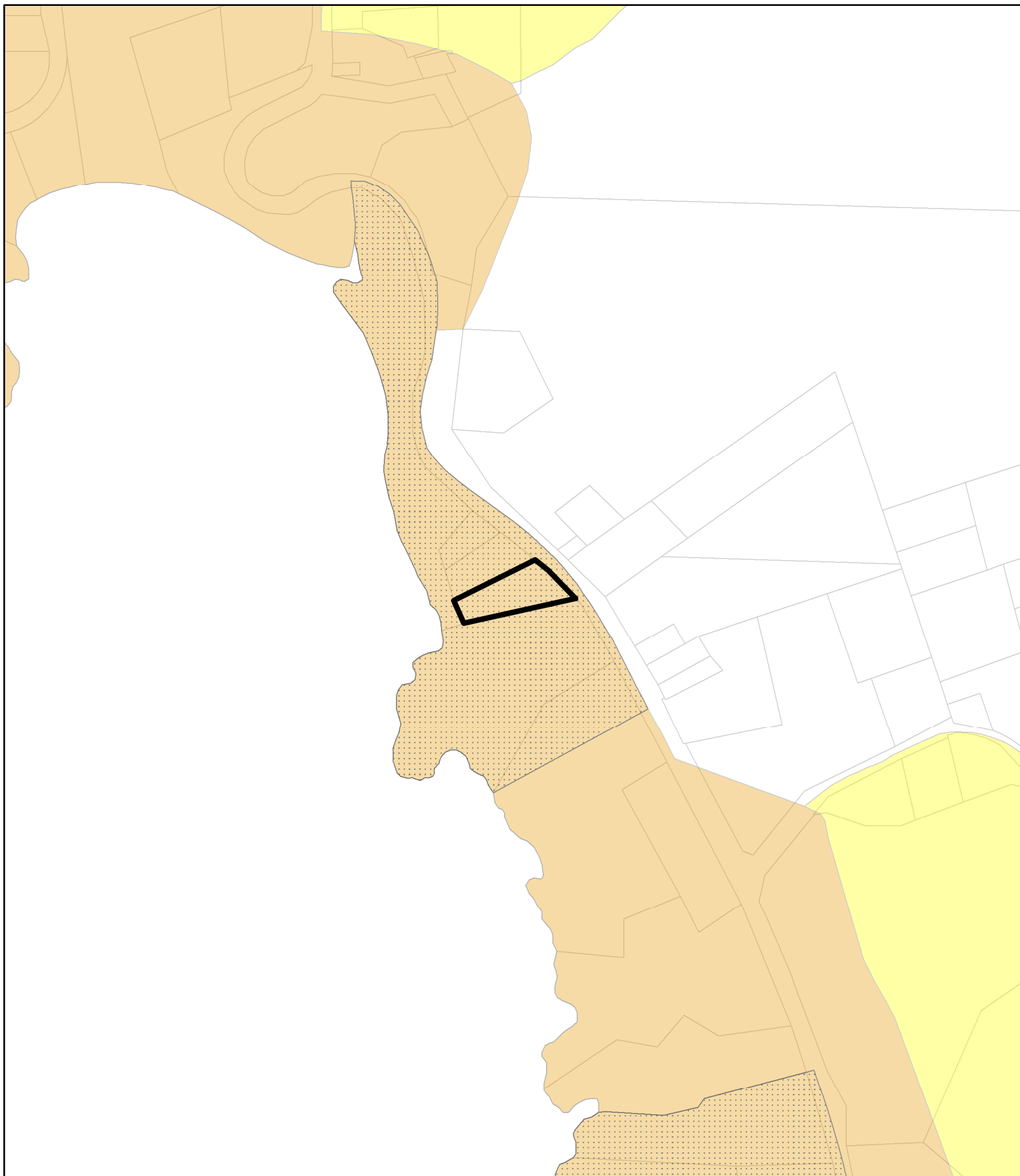
-  Major Towns & Places
-  Marginal Water Resources
-  Assessors Parcels






1:5,000


COASTAL GROUND WATER RESOURCES


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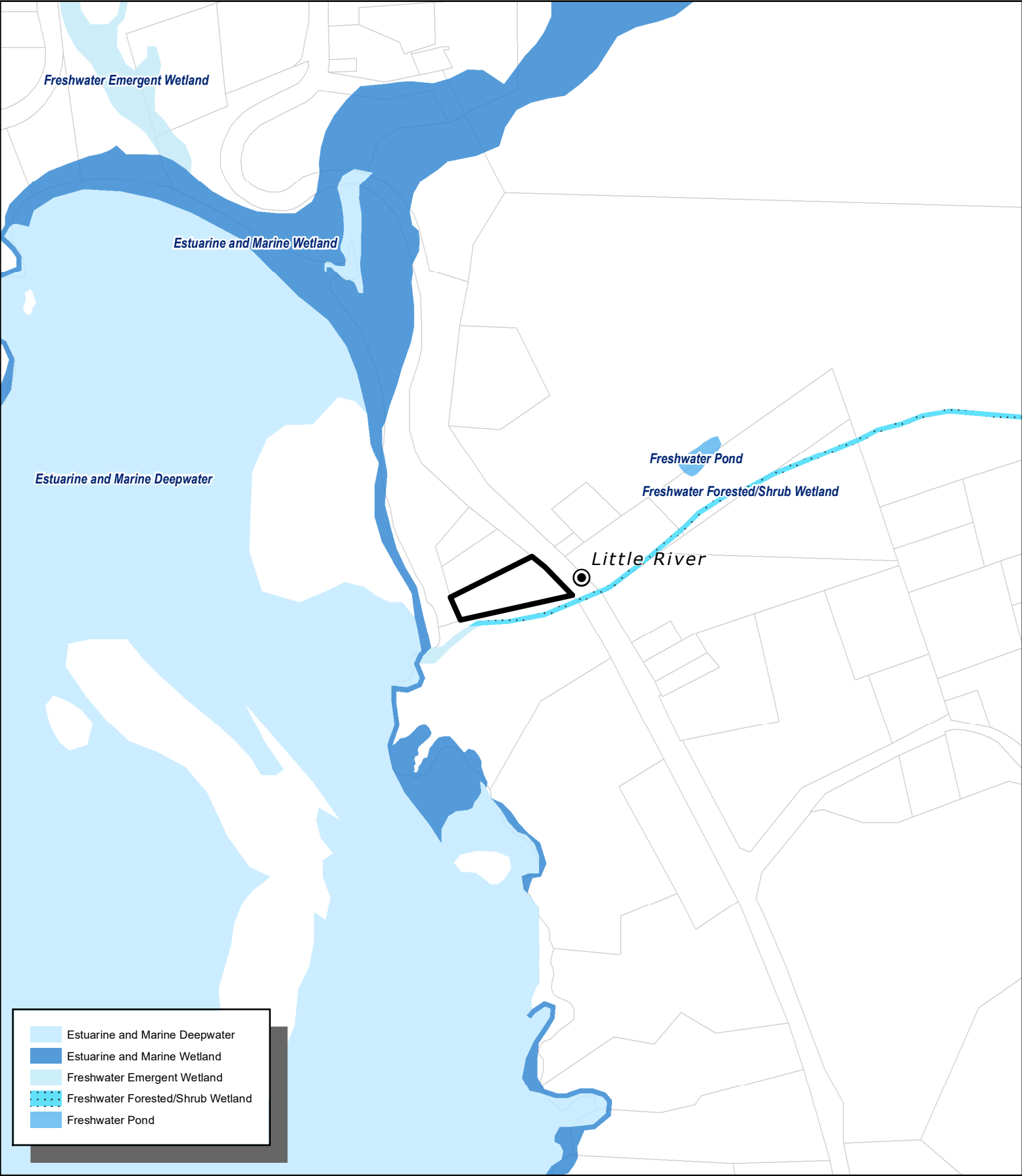
 Tree Removal Area
 Highly Scenic
 Highly Scenic (Conditional)

 Assessors Parcels

0 225 450 Feet
0 0.04 0.08 Miles
1:5,000


HIGHLY SCENIC & TREE REMOVAL AREAS

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Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

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Major Towns & Places

Assessors Parcels

0225450

00.040.08

FeetMiles

N

W

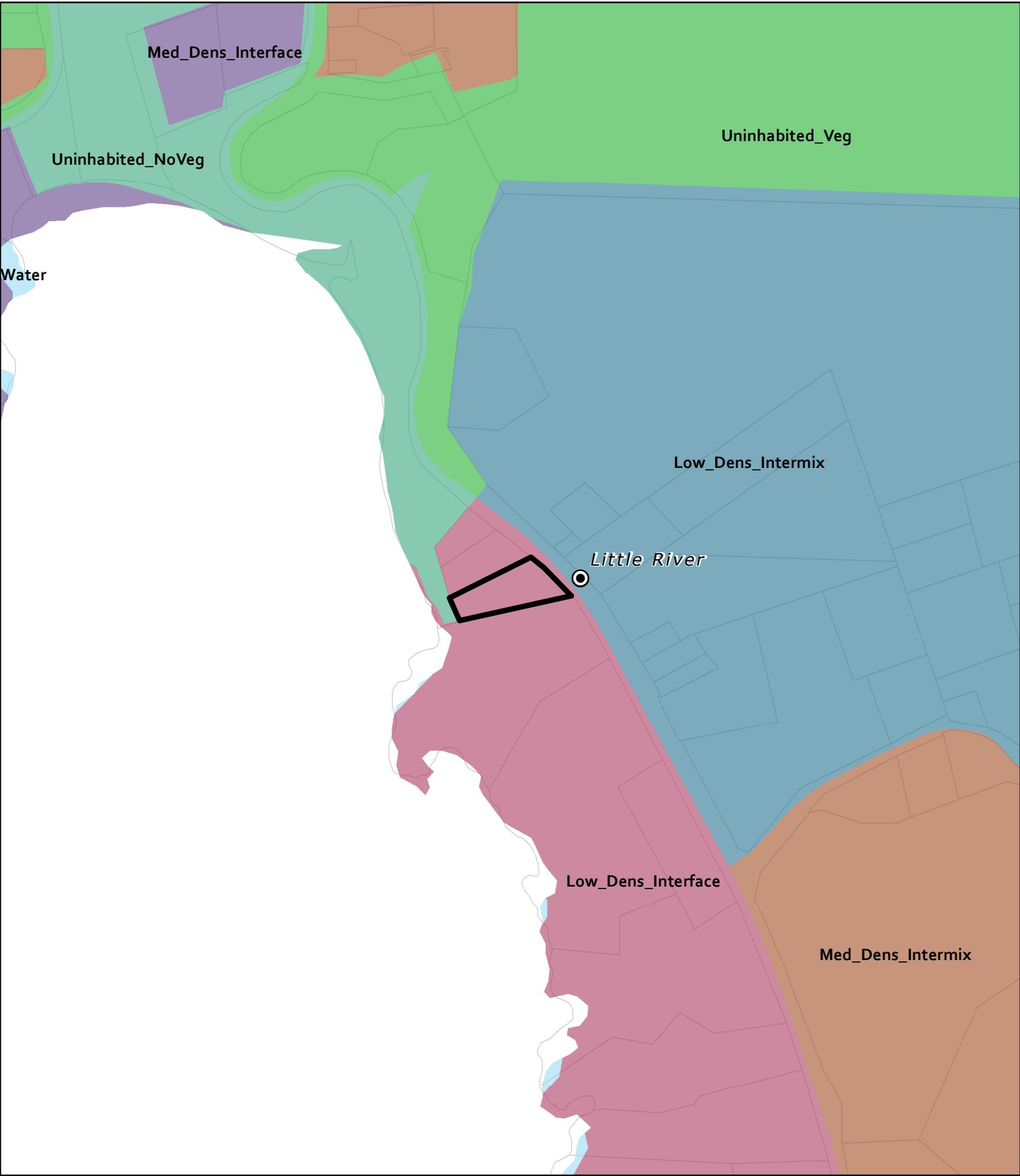
E

S



1:5,000

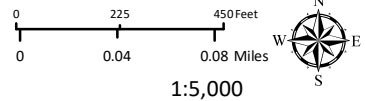
WETLANDS

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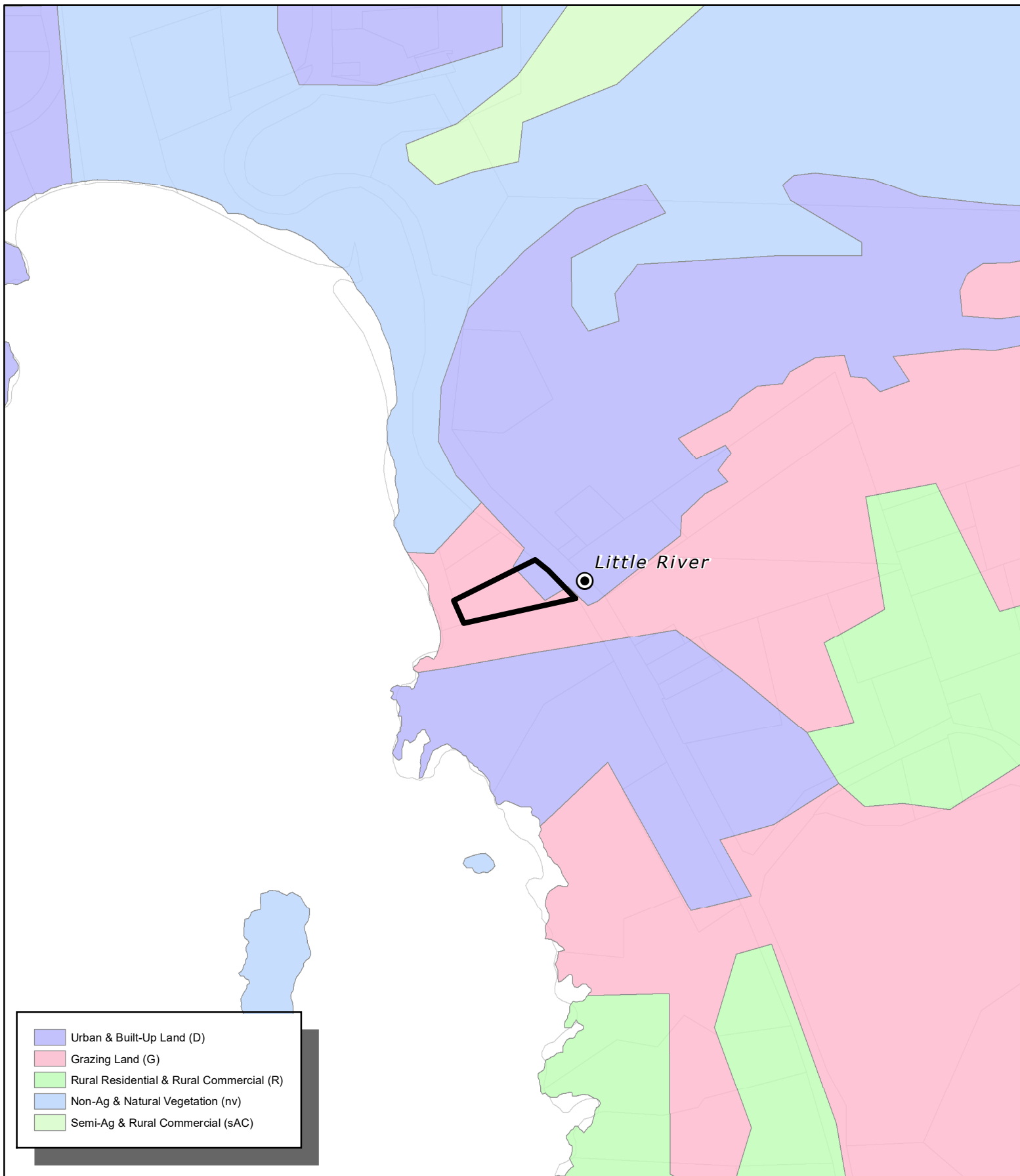
 Major Towns & Places
 Assessors Parcels



1:5,000

WILDLAND-URBAN INTERFACE

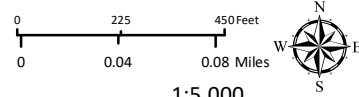
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DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



- Urban & Built-Up Land (D)
- Grazing Land (G)
- Rural Residential & Rural Commercial (R)
- Non-Ag & Natural Vegetation (nv)
- Semi-Ag & Rural Commercial (sAC)

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- Major Towns & Places
- Assessors Parcels




1:5,000

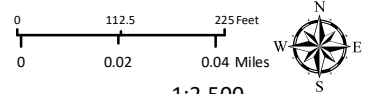
IMPORTANT FARMLANDS

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Mendocino Unified

CASE: EM 2025-0002
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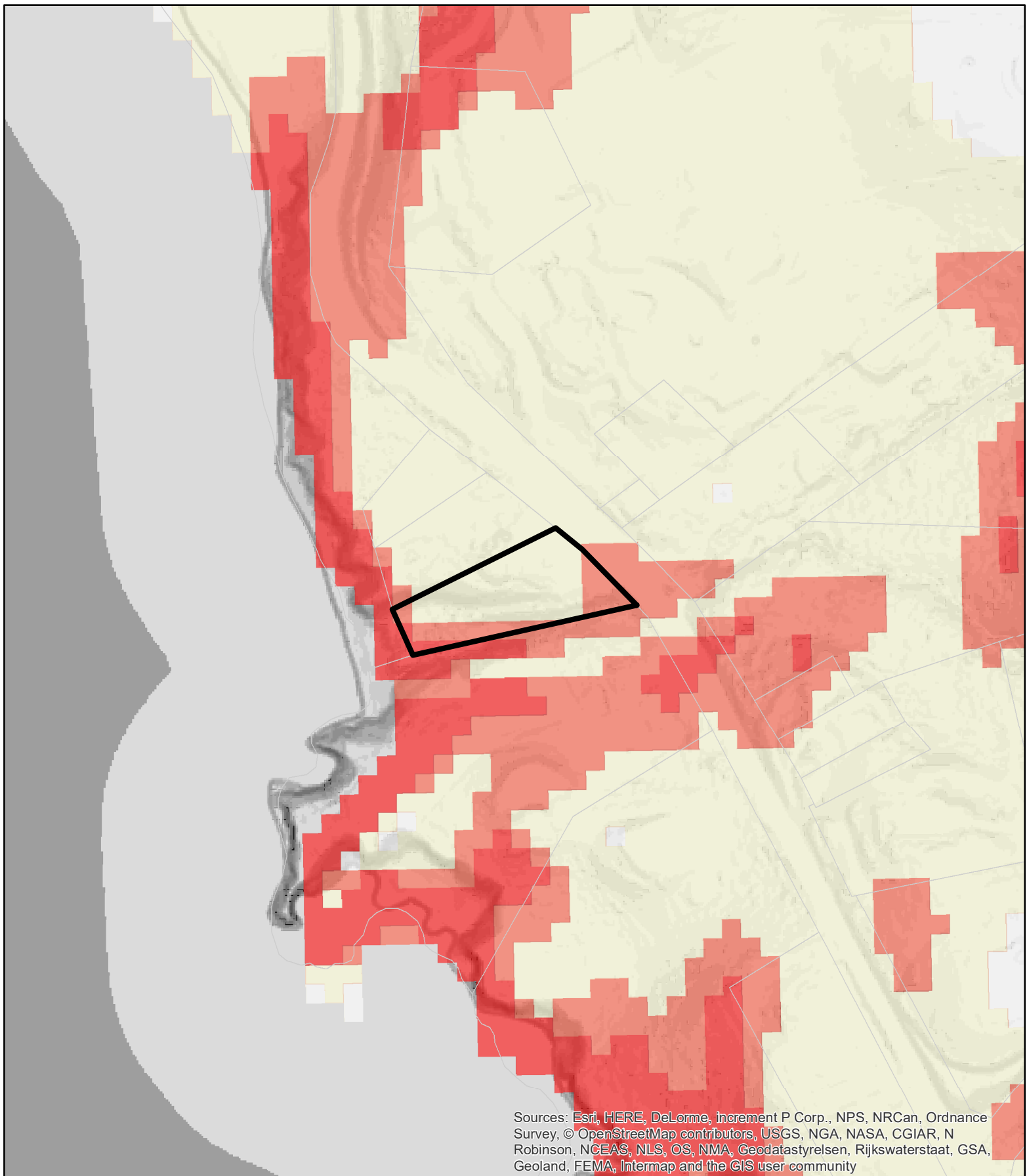
 Assessors Parcels



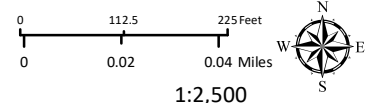
1:2,500

SCHOOL DISTRICT

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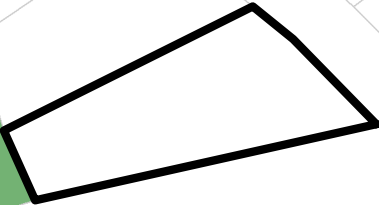
CASE: EM 2025-0002
OWNER: KIM, Young
APN: 121-280-17
APLCT: Young Kim
AGENT: Debra Lennox
ADDRESS: 7746 N Hwy 1, Little River





LANDSLIDE HAZARDS

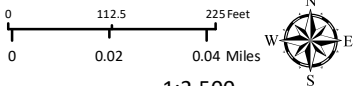
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Van Damme SP



CASE: EM 2025-0002
OWNER: KIM, Young
APN: 121-280-17
APLCT: Young Kim
AGENT: Debra Lennox
ADDRESS: 7746 N Hwy 1, Little River

 Assessors Parcels
 State Parks



1:2,500
STATE PARKS

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EMERGENCY PERMIT PROJECT INTAKE CHECKLIST

The following information and materials must be submitted at the time an emergency permit application is filed with the Planning Division. **Applicants should check off each completed item under the box marked "A" and submit this checklist with the application.**

A
☒

C
☐

1. **Two (2) Copies** of items a - e, on 8 ½" x 11" paper, collated and stapled into individual application packets.

- a) **EMERGENCY PERMIT APPLICATION FORM** - Please be sure to answer all questions thoroughly and accurately.
- b) **EMERGENCY PERMIT QUESTIONNAIRE** - Please be sure to answer all questions thoroughly and accurately.
- c) **LOCATION MAP** - Use USGS quad maps with parcel boundaries (see attached example).
- d) **SITE PLAN** - drawn to scale (see attached example).
- e) **ARCHITECTURAL/ENGINEERING PLANS & ELEVATIONS FOR THE EMERGENCY WORK** - (if applicable).

A
☒

C
☐

2. **ARCHITECTURAL/ENGINEERING PLANS & ELEVATIONS FOR THE EMERGENCY WORK - 1 Full-Size Set** (if applicable). Drawn to scale and folded to 8 ½" x 11" size.

A
☒

C
☐

3. **SIGNED CERTIFICATION AND SITE VIEW AUTHORIZATION FORM - 1 Copy.**

A
☒

C
☐

4. **SIGNED INDEMNIFICATION AGREEMENT - 1 Copy.**

A
☒

C
☐

5. **PROOF OF APPLICANT'S LEGAL INTEREST IN THE PROPERTY - 1 Copy.** Proof can be in the form of a current tax statement, title report, lease agreement or other documents showing legal interest to apply for the permit and comply with all conditions of approval. All holders or owners of any other interest of record in the affected property shall be identified on the application and notified in writing of the permit application by the applicant and invited to join as co-applicant(s).

A
☐

C
☐

6. **FILING FEE** - (check with a planner for fee amount). Checks to be made payable to the County of Mendocino.

COUNTY OF MENDOCINO
DEPT OF PLANNING & BUILDING SERVICES
120 WEST FIR STREET
FORT BRAGG, CA 95437
Telephone: 707-964-5379

Case No(s) EM 2025-0002
CDF No(s) TBD
Date Filed 7/31/2025
Fee \$ 1,783.00
Receipt No. _____
Received by Sandy Arellano
Office Use Only

EMERGENCY PERMIT APPLICATION FORM

Name of Applicant Young Kim	Name of Owner(s) Young Kim	Name of Agent Debra Lennox
Mailing Address PO Box 500 Mendocino	Mailing Address same	Mailing Address PO Box 798 Mendocino
Telephone Number (408)234-7896	Telephone Number	Telephone Number 707-813-7886

Project Description:

REPLACE EXISTING FUEL SYSTEM AT SITE; THREE EXISTING UNDERGROUND STORAGE TANKS TO BE REMOVED; ONE NEW 10,000 GALLON TANK TO BE INSTALLED (2-PRODUCT); EXISTING DISPENSERS TO BE REPLACED; ALL FUEL LINE TO BE REPLACED; UPGRADED MONITORING SYSTEM TO BE INSTALLED; NO CHANGES TO LOT DRAINAGE

Driving Directions

The site is located on the W (N/S/E/W) side of HIGHWAY 1 (name road)
approximately .25 MI (feet/miles) N (N/S/E/W) of its intersection with
LITTLE RIVER AIRPORT RD (provide nearest major intersection).

Assessor's Parcel Number(s)

121-280-1700

Parcel Size

1.16

☐ Square Feet
☒ Acres

Street Address of Project

7746 North Hwy 1 Little River, CA

Please note: Before submittal, please verify correct street address with the Planning Division in Ukiah.

EMERGENCY PERMIT APPLICATION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Planning & Building Services Department and other agencies who will be reviewing your project proposal. The more detail that is provided, the easier it will be to promptly process your application. Please answer all questions. For questions which do not pertain to your project, please indicate "Not Applicable" or "N/A".

1. **NATURE OF THE EMERGENCY NARRATIVE** (use additional pages if necessary).

a) Describe the nature, cause and location of the emergency.

State Water Resources Control Board:Pursuant to Health and Safety Code, chapter 6.7, section 25292.05, all single-walled underground storage tanks (USTs) and nonexempt single-walled piping (SWTs) must be permanently closed by December 31, 2025. There are no exceptions.

b) Describe the remedial protective or preventive work required to deal with the emergency.

REPLACE EXISTING FUEL SYSTEM- UNDERGROUND TANKS & LINES & ABOVE GROUND DISPENSERS WITH NEW 10,000 GAL COMPLIANT TANK

c) Describe the circumstances during the emergency that justify the course(s) of action taken, including the probable consequences of failing to take action.

POTENTIAL FUEL LEAK INTO ENVIRONMENT; STATE MANDATE TO CLOSE BUSINESS IF NOT COMPLETED ON TIME

d) Describe any secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc. that are necessary to deal with the emergency.

NONE

2. Are there existing structures on the property? ☒ Yes ☐ No

SUBMIT ONLY ONE COPY

INDEMNIFICATION AND HOLD HARMLESS

ORDINANCE NO. 3780, adopted by the Board of Supervisors on June 4, 1991, requires applicants for discretionary land use approvals, to sign the following Indemnification Agreement. Failure to sign this agreement will result in the application being considered incomplete and withheld from further processing.

INDEMNIFICATION AGREEMENT

As part of this application, applicant agrees to defend, indemnify, release and hold harmless the County of Mendocino, its agents, officers, attorneys, employees, boards and commissions, as more particularly set forth in Mendocino County Code Section 1.04.120, from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set aside, void or annul the approval of this application or adoption of the environmental document which accompanies it. The indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of this application, whether or not there is concurrent, passive or active negligence on the part of the County, its agents, officers, attorneys, employees, boards and commissions.

Date:

7/30/2015

Young Kim


Applicant

SUBMIT ONLY ONE COPY

CERTIFICATION AND SITE VIEW AUTHORIZATION

1. I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application, and all attached appendices and exhibits, is complete and correct. I understand that the failure to provide any requested information or any misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the County.
2. I hereby grant permission for County Planning and Building Services staff and hearing bodies to enter upon and site view the premises for which this application is made in order to obtain information necessary for the preparation of required reports and render its decision.

Young Kim
Owner/Authorized Agent

7/30/2025
Date

NOTE: IF SIGNED BY AGENT, OWNER MUST SIGN BELOW.

AUTHORIZATION OF AGENT

I hereby authorize Debra Lennox to act as my representative and to bind me in all matters concerning this application.

Young Kim
Owner

7/30/2025
Date

MAIL DIRECTION

To facilitate proper handling of this application, please indicate the names and mailing addresses of individuals to whom you wish correspondence and/or staff reports mailed if different from those identified on Page One of the application form.

Name	Name	Name
Mailing Address	Mailing Address	Mailing Address



Sara Pierce
Acting Auditor-Controller/Treas.-Tax Collector
501 Low Gap Rd, Room 1060
Ukiah, CA 95482
www.mendocinocounty.gov/ttc

MENDOCINO COUNTY SECURED TAX STATEMENT
FOR FISCAL YEAR JULY 1, 2024 THROUGH JUNE 30, 2025
FOR TAX YEAR 2024 - 2025

Print Date: 10/10/2024

PROPERTY INFORMATION		SEE REVERSE FOR IMPORTANT INFORMATION	
BILL NUMBER: 1736864	TAX RATE AREA: 104004		
PARCEL NUMBER: 1212801700	ACRES: 1.1600		
LOCATION: 7746 N HWY 1 LITTLE RIVER CA			
LIEN DATE OWNER: KIM YOUNG WEON & JI HYUN			

*****AUTO**SCH 5-DIGIT 95472



AA 6578 1/1_P34 T30
KIM YOUNG WEON & JI HYUN
PO BOX 500
MENDOCINO CA 95460-0500

See reverse for electronic payment information

TELEPHONE NUMBERS		COUNTY VALUES AND EXEMPTIONS	
		VALUE DESCRIPTION	VALUE
Tax Collection	(707) 234-6875	Land	\$665,627
Address Change	(707) 234-6800	Structures	\$472,197
Exemptions	(707) 234-6801	Business Personal Property	\$34,951
Assessed Values	(707) 234-6800	Late Filing Penalty - R&T 463	\$3,495
Tax Rates	(707) 234-6859	Net Value	\$1,176,270
Personal Property	(707) 234-6815		

VOTER APPROVED TAXES, TAXING AGENCY DIRECT CHARGES AND SPECIAL ASSESSMENTS			
TELEPHONE NUMBERS	DESCRIPTION	TAX RATE PERCENT	AGENCY TAXES/CHARGES
707-234-6859	County Wide Base Tax	1.000	\$11,762.68
707-961-1234	Mendocino Cst Hospital BIR	0.011	\$129.39
707-937-5868	Mendocino Unified Bond	0.116	\$1,364.48
707-476-4172	Mendo College/Rdwd JC Bond	0.008	\$94.11
510-725-2930	Mendo Coast Hosp Measure C	0.000	\$144.00
707-937-0131	Mendo Fire Assessment	0.000	\$630.00
707-937-5868	Mendo USD Maint Asmnt	0.000	\$30.00

DUE AND PAYABLE ON	11/01/2024	DUE AND PAYABLE ON	02/01/2025	TOTAL TAXES
1ST INSTALLMENT	7,077.33	2ND INSTALLMENT	7,077.33	14,154.66
DELINQUENT AFTER	12/10/2024	DELINQUENT AFTER	04/10/2025	

Little River Market Fuel System Remodel

Project location

Cottages at Little River Cove

Location Map

NTS



Google

ABREACTIONS:

ACOUST.	ACOUSTICAL	OPP.	OPPOSITE
A.F.F.	ABOVE FINISHED FLOOR	OPT.	OPTIONAL
ALUM.	ALUMINUM	PL.	PLATE
ANOD.	ANODIZED	PLUMB.	PLUMBING
APPROX.	APPROXIMATE	PWD.	PLYWOOD
AVG.	AVERAGE	PNL.	PANEL
B.	BOTTOM OF	PR.	PAIR
BD.	BOARD	PREP.	PREPARATION/PREPARED
BLDG.	BUILDING	PT.	PART/POINT
BLK'G.	BLOCKING	R.A.	RETURN AIR
B.N.	BOUNDARY NAILING	RAD.	RADIUS
BRG.	BEARING	RECP.T.	RECEPTACLE
CAB.	CABINET	REINF.	REINFORCING
CLG.	CEILING	REQ'D.	REQUIRED
C.J.	CONTROL JOINT	R.O.	ROUGH OPENING
C.L.	CENTER LINE	R.T.U.	ROOF TOP UNIT
CLOS.	CLOSET	S.C.	SOLID CORE
CLR.	CLEAR	SCHD.	SCHEDULE
C.M.U.	CONCRETE MASONRY UNIT	SF.	STOREFRONT
CNTR.	COUNTER	SHT.	SHEET
COL.	COLUMN	SIM.	SIMILAR
CONC.	CONCRETE	SPECS.	SPECIFICATIONS
CONSTR.	CONSTRUCTION	SPRINK.	SPRINKLERS
CONT.	CONTINUOUS	SQ.	SQUARE
CONTR.	CONTRACTOR	S.S.	STAINLESS STEEL
C.T.	CERAMIC TILE	STD.	STANDARD
DBL.	DOUBLE	STL.	STEEL
DIA.	DIAMETER	STRUCT.	STRUCTURAL/STRUCTURE
DIM.	DIMENSION	SUSP.	SUSPENDED
DN.	DOWN	T/	TOP OF
DR.	DOOR	T&B	TOP & BOTTOM
DTL.	DETAIL	T&G	TONGUE & GROOVE
DF.	DOUGLAS FIR	TEMP.	TEMPERED
DWG.	DRAWING	T.N.	TOE NAIL
EA.	EACH	TYP.	TYPICAL
E.I.F.S.	EXTERIOR INSULATION	V.	VOLT/VOLTAGE
	FINISH SYSTEM	V.C.T.	VINYL COMPOSITION TILE
ELECT.	ELECTRIC/ELECTRICAL	VERT.	VERTICAL
ELEV.	ELEVATION	W/	WITH
EQ.	EQUAL	W/O	WITHOUT
EQUIP.	EQUIPMENT	W.B.	WALL BASE
ETC.	ET CETERA	W.C.	WATER CLOSET
EXIST.	EXISTING	WD.	WOOD
EXT.	EXTERIOR	W.H.	WATER HEATER
F.D.	FLOOR DRAIN	WDW.	WINDOW
FDN.	FOUNDATION	WT.	WEIGHT
F.E.	FIRE EXTINGUISHER	W.W.F.	WELDED WIRE FABRIC
F.G.	FIXED GLASS	UST	UNDERGROUND STORAGE TANK
FIN.	FINISH	UDC	UNDER-DISPENSER CONTAINMENT
FIXT.	FIXTURE		
FLR.	FLOOR		
F.R.P.	FIBERGLASS REINFORCED PLASTIC		
FT.	FEET/FOOT		
FS.	FINISHED SURFACE		
GA.	GAGE/GUAGE		
GALV.	GALVANIZED		
G.C.	GENERAL CONTRACTOR		
GL.	GLASS		
GYP.	GYPSON		
H.C.	HANDICAP ACCESSIBLE		
H.C.	HOLLOW CORE		
HDR.	HEADER		
H.M.	HOLLOW METAL		
H.P.	HIGH POINT		
H.R.C.	HEATING & REFRIGERATION		
	CONTRACTOR(S)		
HT.	HEIGHT		
HVAC.	HEATING, VENTILATION,		
	AIR CONDITIONING		
IN.	INCHES		
INFO.	INFORMATION		
INT.	INTERIOR		
INSUL.	INSULATION		
	JUNCTION BOX		
JST.	JOIST		
JB.	JUNCTION BOX		
K.E.C.	KITCHEN EQUIPMENT SUPPLIE		
LAM.	LAMINATE		
LAV.	LAVATORY		
LBS.	POUNDS		
L.F.	LINEAL FOOT		
L.P.	LOW POINT		
MFG.	MANUFACTURER		
MAX.	MAXIMUM		
MECH.	MECHANICAL		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
M.O.	MASONRY OPENING		
M.R.	MOISTURE RESISTANT		
MSRY.	MASONRY		
MTD.	MOUNTED		
MTL.	METAL		
N.I.C.	NOT IN CONTRACT		
N.T.S.	NOT TO SCALE		
O.C.	ON CENTER		
O.D.	OUTSIDE DIAMETER		
O.H.	OPPOSITE HAND		
OPNG.	OPENING		

APPLICABLE CODES:

2022 CALIFORNIA BUILDING CODE
2025 CALIFORNIA MECHANICAL CODE
2025 CALIFORNIA ELECTRICAL CODE
2025 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS
MENDOCINO COUNTY CA CODE REQUIREMENTS
CODE ANALYSIS 2022 CALIFORNIA BUILDING CODE,
CHAPTER 27 ELECTRICAL

NOTE:ALL CONSTRUCTION ACTIVITIES/WORK WILL BE PERFORMED AS PER THE APPROVED
DRAWINGS AND CITY/COUNTY CODES.

BOULEVARD

Construction
4080 TRUXEL ROAD, SUITE 100,
SACRAMENTO. CA. US 95834



VICINITY MAP (LITTLE RIVER CALIFORNIA)

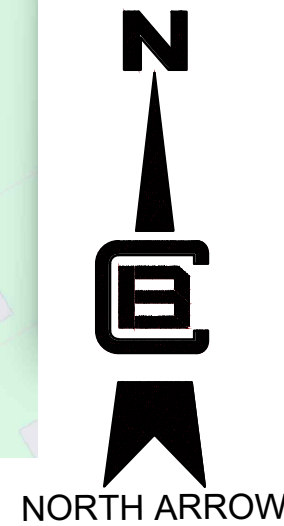


Little River Market

7746 CA-1, Little River, CA 95456

Installation UST's,UDC's Drawing Package

DATE: 09-09-2025



NORTH ARROW

GENERAL NOTES

AB 2481 COMPLIANCE NOTE

All product, vapor, and vent piping shall be double-wall.
The interstitial space between all double-wall tank sumps, under-dispenser sumps, and under-vent sumps shall be hydrostatically tested or vacuum monitored to detect liquid intrusion.
The interstitial space between all double-wall product, vapor, and vent piping shall be monitored by a vacuum sensor.
All vacuum hoses shall be connected to the turbine pump, which provides a source of vacuum, and shall be connected to a vacuum sensor to prevent the loss of product into the environment.
All primary and secondary containment sumps shall be impervious to liquid and vapor of the stored substance to prevent seepage from containment.
All secondary containment shall be constructed to prevent water intrusion into the underground storage tank system by precipitation, infiltration, or surface runoff.
The underground storage tank system shall be tested after installation (but before being put into service) using Enhanced Leak Detection (ELD).

GENERAL NOTES – UST's & UDC's

1. Regulatory Compliance
All work shall be performed in accordance with 2022 California Building Code (CBC), California Fire Code (CFC), National Fire Protection Association (NFPA 30), Cal/OSHA Title 8, and Mendocino County Environmental Health Department requirements.
The project shall comply with California State Water Resources Control Board (SWRCB) UST Regulations, mendocino zoning codes, and all applicable local, state, and federal environmental laws.
The contractor shall secure all necessary permits and approvals from the Little River City of Mendocino County, and other relevant agencies before initiating work.
2. General Contractor and Engineering Requirements
The removal and disposal of the used oil tank and associated piping shall be conducted by a licensed General Engineering Contractor (A) or General Building Contractor (B) experienced in underground storage tank (UST) decommissioning and hazardous material handling.
All excavation, backfilling, and site restoration shall be performed under the supervision of BOULEVARD CONSTRUCTION INC. The contractor shall ensure compliance with Cal/OSHA excavation safety standards, including proper trenching, and confined space entry procedures.
3. Tank and Piping Removal Process
The 3 USTs shall be emptied, cleaned, and purged of all hazardous vapors in compliance with NFPA 30 and Cal/OSHA hazardous materials handling protocols.
All associated piping shall be disconnected, removed, and properly capped per California UST closure requirements.
The tanks shall be excavated and removed with proper spill containment measures in place to prevent environmental contamination.
3 USTs capacity 10K gal. Concrete slab 999 sq. ft. of existing concrete tank slab shall be removed, and any structural components affected by the removal process shall be evaluated for replacement.
A certified waste disposal facility shall be used for the proper disposal of the removed tank, piping, residual oil, and any contaminated soil per CALEPA hazardous waste management regulations.
4. Environmental and Safety Requirements
The contractor shall implement spill prevention and emergency response plans throughout the removal process.
Soil sampling and testing shall be conducted at the excavation site to determine if remediation is required.
All hazardous materials shall be handled, transported, and disposed of following California hazardous waste management regulations.
Workers shall be equipped with appropriate personal protective equipment (PPE) and trained in hazardous materials handling as per Cal/OSHA HAZWOPER regulations.
5. Site Restoration and Final Inspection
The excavation area shall be backfilled and compacted using engineered fill per geotechnical recommendations.
The removed concrete tank slab shall be replaced with new reinforced concrete paving per CBC 2022 and little river zoning requirements.
All disturbed areas shall be restored to match existing site conditions, including pavement, grading, and drainage modifications if required.
The contractor shall coordinate with Cupertino building inspectors, mendocino County Environmental Health, and the local fire department for final inspections and approvals.
All closure documentation, including, hazardous waste manifests, and drawings, shall be submitted to the relevant regulatory agencies for project sign-off.

FIRE GENERAL NOTES AND SIGN

A. Activation of the emergency shutdown devices shall stop fuel transfer to the dispensers and close all valves supplying fuel to the dispensers.
B. Emergency shutdown devices shall be distinctly labeled "EMERGENCY FUEL SHUTDOWN DEVICE."
C. Fuel dispensing into motor vehicle fuel tanks or portable containers shall be supervised by a qualified attendant at all times, except at approved unsupervised locations.
D. Flammable and combustible liquids, as well as petroleum waste products, shall not be discharged or released onto sidewalks, streets, highways, drainage canals, ditches, storm drains, sewers, flood-control channels, lakes, rivers, or tidal waterways.
E. The attendant's primary function shall be to supervise, observe, and control the dispensing of motor fuels.
The attendant shall:
Prevent the dispensing of flammable and combustible liquids into containers not compliant with code.
Control sources of ignition.
Provide immediate attention to accidental spills or releases.
Be prepared to use fire extinguishers when necessary.
Have access to a communication method to contact the fire department in case of an emergency.
F. Signs prohibiting smoking, dispensing into unapproved containers, and requiring vehicle engines to be stopped during fueling shall be conspicuously posted within sight of each dispenser.
G. Weeds, grass, brush, trash, and other combustible materials shall be kept at least ten (10) feet away from fuel storage vessels and fuel-handling equipment.
H. The entire space within and under the dispenser pit or containment shall comply with Class I, Division I electrical requirements as per NFPA 30A, Table 8.3.2. This must be illustrated/indicated on the plan.
I. All fuel dispensing devices shall be programmed or set to limit uninterrupted fuel delivery to 125 gallons and require a manual action to resume continued delivery.

SAFETY AND EMERGENCY SIGN

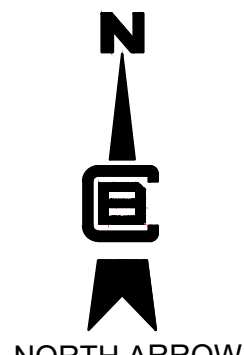


7746 CA-1, Little
River, CA 95456



VICINITY MAP (LITTLE RIVER CALIFORNIA)

N.T.S.



NORTH ARROW

PROJECT SCOPE OF WORK

DEMOLITION / REMOVAL

A. Remove existing 10,000-gal Regular 67 single-wall UST
A1. Remove existing 1,000-gal Premium 91 single-wall UST
A2. Remove existing 1,000-gal Premium 91 single-wall UST
A3. Upgrade existing TLS-350 tank monitoring system
A4. Remove two existing dispensers
A5. Remove all single-wall product, vapor, vent, and riser piping
A6. Remove existing concrete pad above tanks and piping trench

INSTALLATION

(1) 10,000 GALLON GLASTEEL II JACKETED U.L. 1746 LISTED UNDERGROUND
B. STORAGE TANK WITH TWO COMPARTMENTS (6500K - REGULAR UNLEADED / 3500K PREMIUM UNLEADED), TWO 24" MANWAYS.
B1. Install and upgrade to new TLS-450 tank monitoring system per contract
B2. Install two new dispensers (model and type per equipment list Sheets F-4.0 and F-5.0)
B3. Install all double-wall fiberglass piping (product, vapor, vent, riser)
B4. Install new concrete pad above tanks and product piping trench

INDEX:

T-1.0 CODE AND TITLE SHEET

CIVIL PLAN:

C-1.0 EXISTING SITE PLAN
C-2.0 PROPOSED INSTALLATION UST,UDC&PIPING SITE PLAN
C-3.0 ENLARGED INSTALLATION UST's,UDC's & PIPING SITE PLAN
C-4.0 SAFETY SITE PLAN
C-5.0 EROSION GENERAL NOTE AND DETAILS

MECHANICAL PLAN:

F-1.0 TANK AND PIPING INSTALLATION GENERAL NOTE
F-2.0 TANK AND PIPING INSTALLATION GENERAL NOTE
F-3.0 VEEDER - ROOT CARBON CANISTER VAPOR POLISHER
F-4.0 TANK AND PIPING INSTALLATION STAGE I EQUIPMENT
F-5.0 FIBERGLASS PIPING AND FITTINGS (ALL AREAS)
F-6.0 VENT STACK, VEEDER - ROOT, VAPOR INSTALLATION DETAILS
F-7.0 TANK TYPICAL CONDUIT INSTALLATION PLAN VIEW
F-8.0 TANK INSTALLATION SECTIONS
F-9.0 TANK INSTALLATION GROUNDING SECTIONS
F-10.0 TANK SECTION INSTALLATION DETAILS
F-11.0 TURBINE SIDE SUMPS AND PIPING INSTALLATION DETAILS
F-12.0 INSTALLATION OF DETAILS (3+0) DISPENSER
F-12.1 ADA DETAILS (3+0) DISPENSER
F-13.0 STANDARD API COLOR TURBINE& SUMP DENTILS FACILITY
F-14.0 TANK SLAB CONCRETE SPECIFICATION AND IDENTIFICATION MARKING DETAILS

ELECTRICAL PLAN:

ED-1. ELECTRICAL GENERAL NOTES
E-1.0 ELECTRICAL SITE PLAN
E-2.0 CLASS 1, DIVISION 1 AND 2 HAZARDOUS AREA PLAN
E-3.0 PANEL SCHEDULE & SINGLE LINE DIAGRAM DETAILS
E-4.0 EQUIPMENT WIRING AND ZONING DETAILS

OWNER INFORMATION

OWNER NAME: KIM YOUNG WENO (Rich Andy,Inc)
PHONE: 408 234-7886
BUSINESS NAME: LITTLE RIVER MARKET
EMAIL: littlerivermarket@gmail.com

PROPERTY LOCATION INFORMATION

Building size (3000) sq ft
Lot size: 50530 sq ft, 1.16 Acres
building construction type V-B
Building Occupancy Group M

APN#: 121-280-17-00



PROJECT DIRECTOR:

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ARCHITECT OF RECORD :



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FAX NO: 1(916) 914-2215
Email: - Info@theboulevard.us

PROJECT ADDRESS:
7746 N HIGHWAY 1, LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:
121-280-17-00

REVISIONS:	DATE:	DESCRIPTION	BY:
	08-28-25	REVISION	△

CURRENT ISSUE DATE:

08/28/2025

ISSUED FOR :

CONTROL NO:

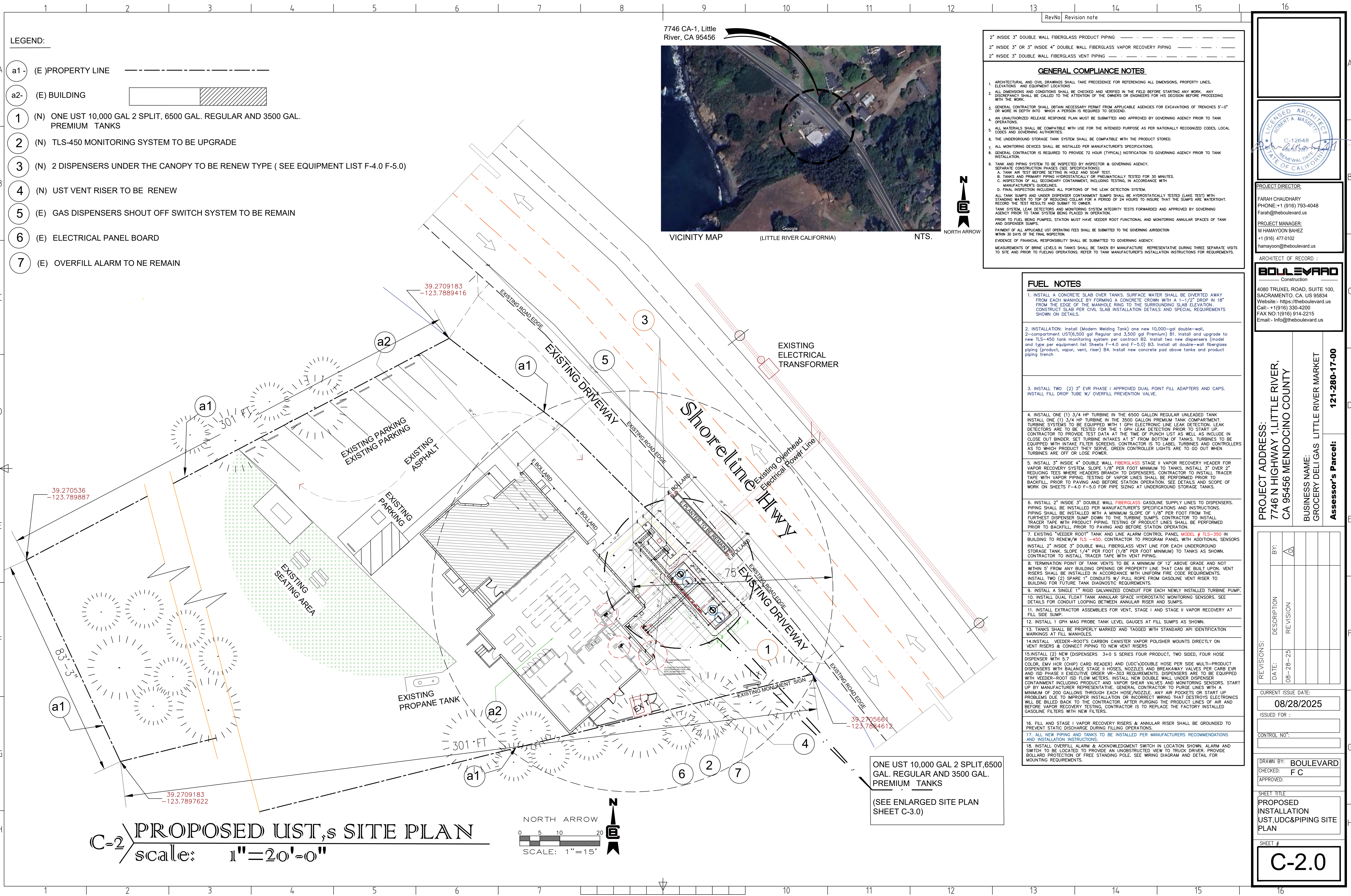
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CHECKED: F C
APPROVED:

SHEET TITLE

TITLE SHEET AND CODE

SHEET

T-1.0



- LEGEND:
- a1- (E) PROPERTY LINE
 - a2- (E) BUILDING
 - 1 (N) ONE UST 10,000 GAL 2 SPLIT, 6500 GAL. REGULAR AND 3500 GAL. PREMIUM TANKS
 - 2 (N) TLS-450 MONITORING SYSTEM TO BE UPGRADE
 - 3 (N) 2 DISPENSERS UNDER THE CANOPY TO BE RENEW TYPE (SEE EQUIPMENT LIST F-4.0 F-5.0)
 - 4 (N) UST VENT RISER TO BE RENEW
 - 5 (E) GAS DISPENSERS SHOUT OFF SWITCH SYSTEM TO BE REMAIN
 - 6 (E) ELECTRICAL PANEL BOARD
 - 7 (E) OVERFILL ALARM TO NE REMAIN

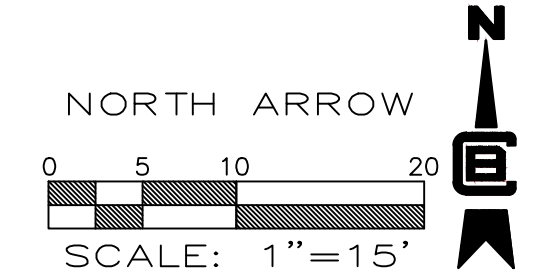


- 2" INSIDE 3" DOUBLE WALL FIBERGLASS PRODUCT PIPING
- 2" INSIDE 3" OR 3" INSIDE 4" DOUBLE WALL FIBERGLASS VAPOR RECOVERY PIPING
- 2" INSIDE 3" DOUBLE WALL FIBERGLASS VENT PIPING
- GENERAL COMPLIANCE NOTES**
- ARCHITECTURAL AND CIVIL DRAWINGS SHALL TAKE PRECEDENCE FOR REFERENCING ALL DIMENSIONS, PROPERTY LINES, ELEVATIONS AND EQUIPMENT LOCATIONS.
 - ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BEFORE STARTING ANY WORK. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE OWNERS OR ENGINEERS FOR HIS DECISION BEFORE PROCEEDING WITH THE WORK.
 - GENERAL CONTRACTOR SHALL OBTAIN NECESSARY PERMIT FROM APPLICABLE AGENCIES FOR EXCAVATIONS OF TRENCHES 5'-0" OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND.
 - AN UNAUTHORIZED RELEASE RESPONSE PLAN MUST BE SUBMITTED AND APPROVED BY GOVERNING AGENCY PRIOR TO TANK OPERATIONS.
 - ALL MATERIALS SHALL BE COMPATIBLE WITH USE FOR THE INTENDED PURPOSE AS PER NATIONALLY RECOGNIZED CODES, LOCAL CODES AND GOVERNING AUTHORITIES.
 - THE UNDERGROUND STORAGE TANK SYSTEM SHALL BE COMPATIBLE WITH THE PRODUCT STORED.
 - ALL MONITORING DEVICES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - GENERAL CONTRACTOR IS REQUIRED TO PROVIDE 72 HOUR (TYPICAL) NOTIFICATION TO GOVERNING AGENCY PRIOR TO TANK INSTALLATION.
 - TANK AND PIPING SYSTEM TO BE INSPECTED BY INSPECTOR & GOVERNING AGENCY. SEPARATE CONSTRUCTION PHASES (SEE SPECIFICATIONS):
 - A. TANK AIR TEST BEFORE SETTING IN HOLE AND SOAP TEST.
 - B. TANKS AND PRIMARY PIPING HYDROSTATICALLY OR PNEUMATICALLY TESTED FOR 30 MINUTES.
 - C. INSPECTION OF ALL SECONDARY CONTAINMENT, INCLUDING TESTING, IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
 - D. FINAL INSPECTION INCLUDING ALL PORTIONS OF THE LEAK DETECTION SYSTEM.ALL TANK Sumps AND UNDER DISPENSER CONTAINMENT Sumps SHALL BE HYDROSTATICALLY TESTED (LIME TEST) WITH STANDING WATER TO TOP OF REDUCING COLLAR FOR A PERIOD OF 24 HOURS TO INSURE THAT THE Sumps ARE WATERTIGHT. RECORD THE TEST RESULTS AND SUBMIT TO OWNER.
 - TANK SYSTEM LEAK DETECTORS AND MONITORING SYSTEM INTEGRITY TESTS FORWARDED AND APPROVED BY GOVERNING AGENCY PRIOR TO TANK SYSTEM BEING PLACED IN OPERATION.
 - PRIOR TO FUEL BEING PUMPED, STATION MUST HAVE VEEDER ROOT FUNCTIONAL AND MONITORING ANNULAR SPACES OF TANK AND DISPENSER Sumps.
 - PAYMENT OF ALL APPLICABLE UST OPERATING FEES SHALL BE SUBMITTED TO THE GOVERNING JURISDICTION WITHIN 30 DAYS OF THE FINAL INSPECTION.
 - EVIDENCE OF FINANCIAL RESPONSIBILITY SHALL BE SUBMITTED TO GOVERNING AGENCY.
 - MEASUREMENTS OF BRINE LEVELS IN TANKS SHALL BE TAKEN BY MANUFACTURE REPRESENTATIVE DURING THREE SEPARATE VISITS TO SITE AND PRIOR TO FUELING OPERATIONS. REFER TO TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIREMENTS.

- FUEL NOTES**
- INSTALLATION: Install (Modern Welding Tank) one new 10,000-gal double-wall, 2-compartment UST(6,500 gal Regular and 3,500 gal Premium) B1. Install and upgrade to new TLS-450 tank monitoring system per contract B2. Install two new dispensers (model and type per equipment list Sheets F-4.0 and F-5.0) B3. Install all double-wall fiberglass piping (product, vapor, vent, riser) B4. Install new concrete pad above tanks and product piping trench.
 - INSTALL ONE (1) 3/4 HP TURBINE IN THE 6500 GALLON REGULAR UNLEADED TANK. INSTALL ONE (1) 3/4 HP TURBINE IN THE 3500 GALLON PREMIUM TANK COMPARTMENT. TURBINE SYSTEMS TO BE EQUIPPED WITH 1 GPH ELECTRONIC LINE LEAK DETECTION. LEAK DETECTORS ARE TO BE TESTED FOR THE 1 GPH LEAK DETECTION PRIOR TO START UP. CONTRACTOR TO PROVIDE TEST DATA AT THE TIME OF PUNCH LIST AS WELL AS INCLUDE IN CLOSE OUT BIDDING. SET TURBINE INTAKES AT 5" FROM BOTTOM OF TANKS. TURBINES TO BE EQUIPPED WITH INTAKE FILTER SCREENS. CONTRACTOR IS TO LABEL TURBINES AND CONTROLLERS AS TO WHICH PRODUCT THEY SERVE. GREEN CONTROLLER LIGHTS ARE TO GO OUT WHEN TURBINES ARE OFF OR LOSE POWER.
 - INSTALL 2" INSIDE 4" DOUBLE WALL FIBERGLASS STAGE II VAPOR RECOVERY HEADER FOR VAPOR RECOVERY SYSTEM. SLOPE 1/8" PER FOOT MINIMUM TO TANKS. INSTALL 3" OVER 2" REDUCING TEES WHERE HEADERS BRANCH TO DISPENSERS. CONTRACTOR TO INSTALL TRACER TAPE WITH VAPOR PIPING. TESTING OF VAPOR LINES SHALL BE PERFORMED PRIOR TO BACKFILL. PRIOR TO PAVING AND BEFORE STATION OPERATION. SEE DETAILS AND SCOPE OF WORK ON SHEETS F-4.0 F-5.0 FOR PIPE SIZING AT UNDERGROUND STORAGE TANKS.
 - INSTALL 2" INSIDE 3" DOUBLE WALL FIBERGLASS GASOLINE SUPPLY LINES TO DISPENSERS. PIPING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT FROM THE FURTHEST DISPENSER SUMP DOWN TO THE TURBINE Sumps. CONTRACTOR TO INSTALL TRACER TAPE WITH PRODUCT PIPING. TESTING OF PRODUCT LINES SHALL BE PERFORMED PRIOR TO BACKFILL. PRIOR TO PAVING AND BEFORE STATION OPERATION.
 - EXISTING "VEEDER ROOT" TANK AND LINE ALARM CONTROL PANEL. MODEL # TLS-350 IN BUILDING TO RENEW W/ TLS-450. CONTRACTOR TO PROGRAM PANEL WITH ADDITIONAL SENSORS. INSTALL 2" INSIDE 3" DOUBLE WALL FIBERGLASS VENT LINE FOR EACH UNDERGROUND STORAGE TANK. SLOPE 1/4" PER FOOT (1/8" PER FOOT MINIMUM) TO TANKS AS SHOWN. CONTRACTOR TO INSTALL TRACER TAPE WITH VENT PIPING.
 - TERMINATION POINT OF TANK VENTS TO BE A MINIMUM OF 12' ABOVE GRADE AND NOT WITHIN 5' FROM ANY BUILDING OPENING OR PROPERTY LINE THAT CAN BE BUILT UPON. VENT RISERS SHALL BE INSTALLED IN ACCORDANCE WITH UNIFORM FIRE CODE REQUIREMENTS. INSTALL TWO (2) SPARE 1" CONDUITS W/ PULL ROPE FROM GASOLINE VENT RISER TO BUILDING FOR FUTURE TANK DIAGNOSTIC REQUIREMENTS.
 - INSTALL A SINGLE 1" RIGID GALVANIZED CONDUIT FOR EACH NEWLY INSTALLED TURBINE PUMP.
 - INSTALL DUAL FLOAT TANK ANNULAR SPACE HYDROSTATIC MONITORING SENSORS. SEE DETAILS FOR CONDUIT LOOPING BETWEEN ANNULAR RISER AND Sumps.
 - INSTALL EXTRACTOR ASSEMBLIES FOR VENT, STAGE I AND STAGE II VAPOR RECOVERY AT FILL SIDE SUMP.
 - INSTALL 1 GPH MAG PROBE TANK LEVEL GAUGES AT FILL Sumps AS SHOWN.
 - TANKS SHALL BE PROPERLY MARKED AND TAGGED WITH STANDARD API IDENTIFICATION MARKINGS AT FILL MANHOLES.
 - INSTALL "VEEDER-ROOT'S" CARBON CANISTER VAPOR POLISHER MOUNTS DIRECTLY ON VENT RISERS & CONNECT PIPING TO NEW VENT RISERS.
 - INSTALL (2) NEW (DISPENSERS) 340 S SERIES FOUR PRODUCT, TWO SIDED, FOUR HOSE DISPENSER WITH 5.7 COLOR, EASY HCR (SHIP) CARD READER) AND (UDC) DOUBLE HOSE PER SIDE MULTI-PRODUCT DISPENSERS WITH BALANCE STAGE II HOSES, NOZZLES AND BREAKAWAY VALVES PER CARB EVR AND ISO PHASE II EXECUTIVE ORDER VR-303 REQUIREMENTS. DISPENSERS ARE TO BE EQUIPPED WITH VEEDER-ROOT ISO FLOW METERS. INSTALL NEW DOUBLE WALL UNDER DISPENSER CONTAINMENT INCLUDING PRODUCT AND VAPOR SHEAR VALVES AND MONITORING SENSORS. START UP BY MANUFACTURER REPRESENTATIVE. GENERAL CONTRACTOR TO PURGE LINES WITH A MINIMUM OF 200 GALLONS THROUGH EACH HOSE/NOZZLE. ANY AIR POCKETS OR START UP PROBLEMS DUE TO IMPROPER INSTALLATION OR INCORRECT WIRING THAT DESTROYS ELECTRONICS WILL BE BILLED BACK TO THE CONTRACTOR. CONTRACTOR TO PURGE THE PRODUCT LINES OF AIR AND BEFORE VAPOR RECOVERY TESTING, CONTRACTOR IS TO REPLACE THE FACTORY INSTALLED GASOLINE FILTERS WITH NEW FILTERS.
 - FILL AND STAGE I VAPOR RECOVERY RISERS & ANNULAR RISER SHALL BE GROUNDED TO PREVENT STATIC DISCHARGE DURING FILLING OPERATIONS.
 - ALL NEW PIPING AND TANKS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
 - INSTALL OVERFILL ALARM & ACKNOWLEDGMENT SWITCH IN LOCATION SHOWN. ALARM AND SWITCH TO BE LOCATED TO PROVIDE AN UNOBSTRUCTED VIEW TO TRUCK DRIVER. PROVIDE BOLLARD PROTECTION OF FREE STANDING POLE. SEE WIRING DIAGRAM AND DETAIL FOR MOUNTING REQUIREMENTS.

ONE UST 10,000 GAL 2 SPLIT, 6500 GAL. REGULAR AND 3500 GAL. PREMIUM TANKS
(SEE ENLARGED SITE PLAN SHEET C-3.0)

C-2 PROPOSED UST,s SITE PLAN
scale: 1"=20'-0"



RevNo Revision note

7746 CA-1, Little River, CA 95456

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BOULEVARD
Construction

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Email: - info@theboulevard.us

PROJECT ADDRESS:
7746 N HIGHWAY 1, LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:
121-280-17-00

REVISIONS:	DATE:	DESCRIPTION:
	08-28-25	BY: [Signature]

CURRENT ISSUE DATE:
08/28/2025

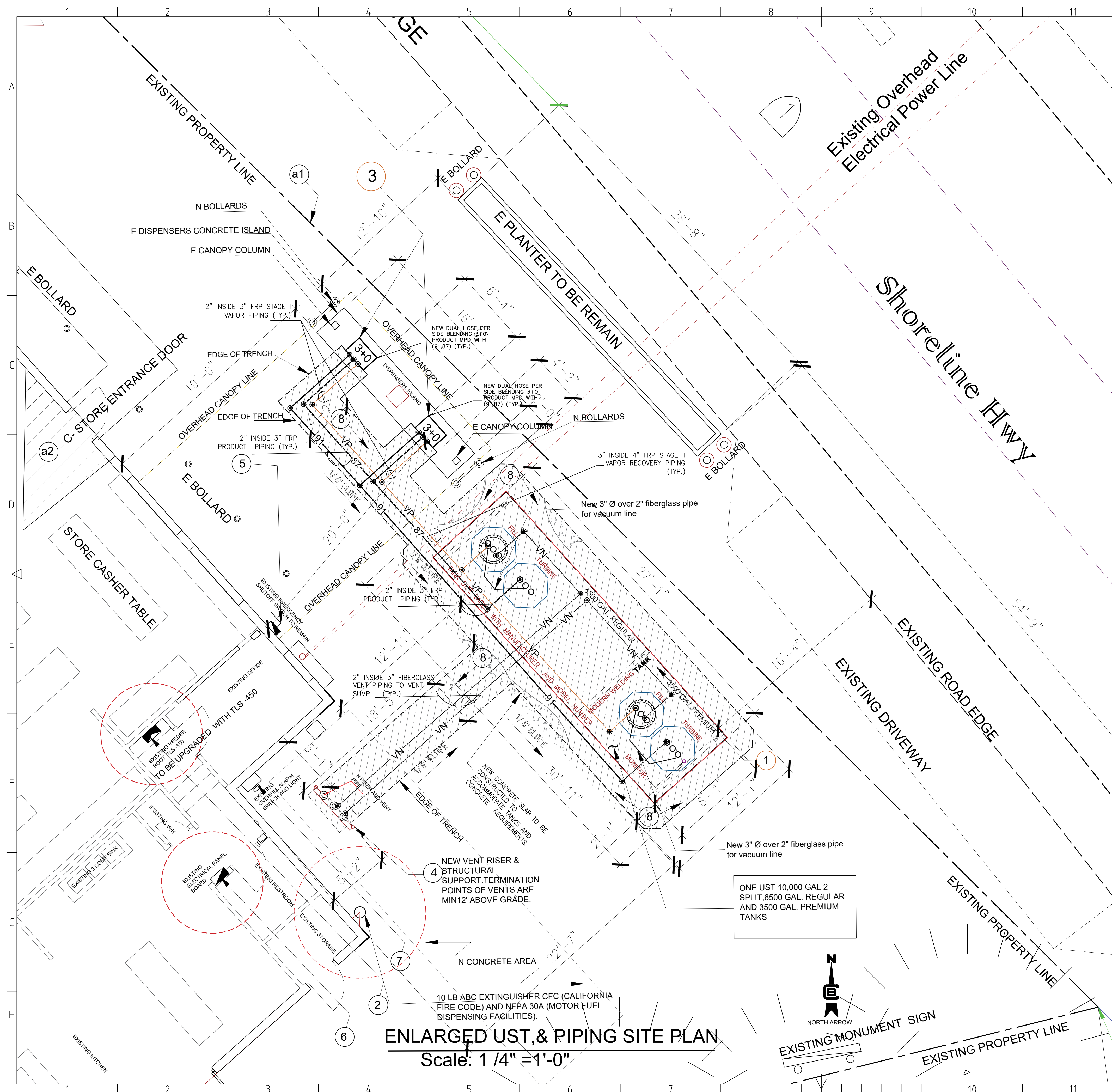
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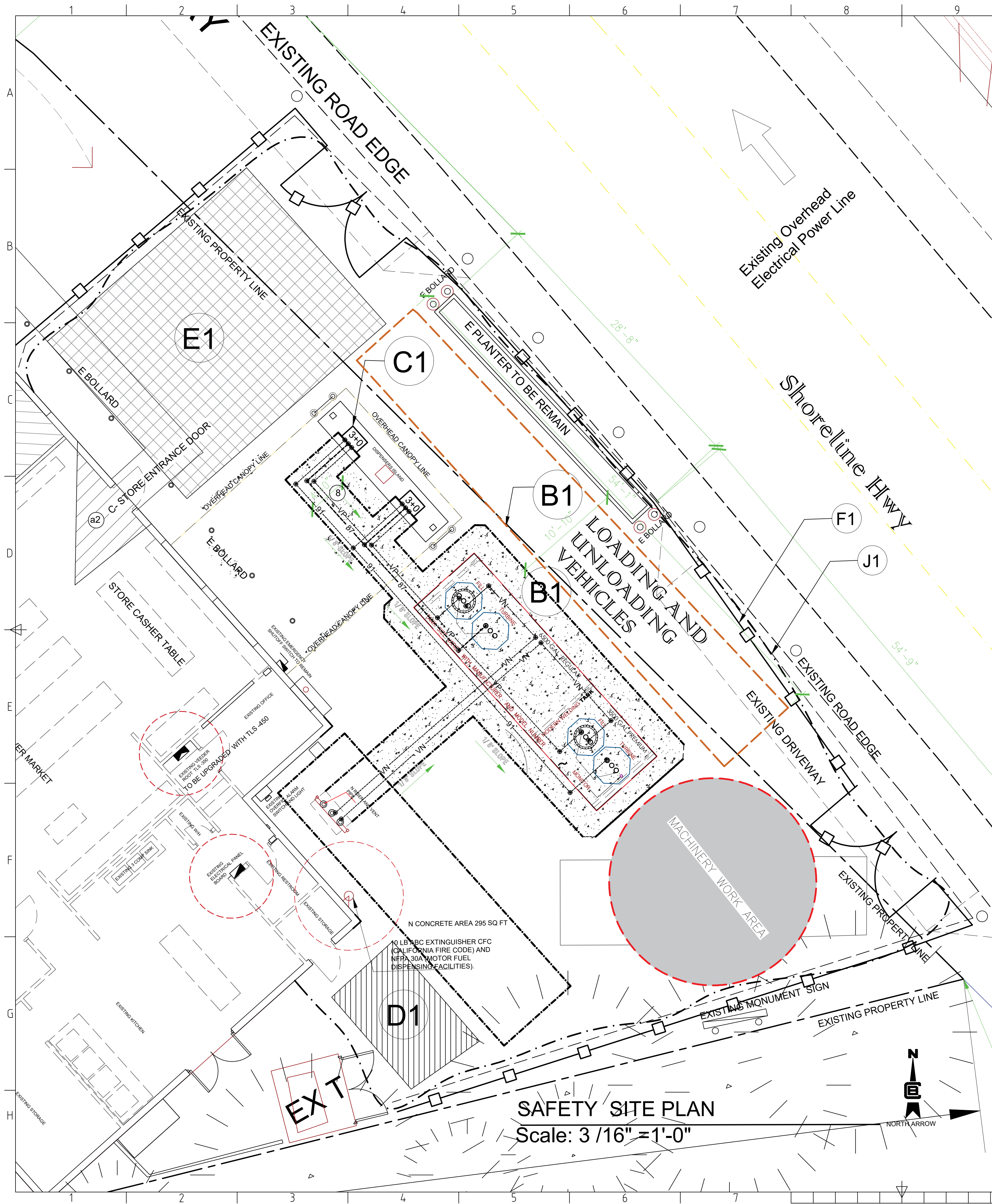
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APPROVED:

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PROPOSED
INSTALLATION
UST,UDC&PIPING SITE
PLAN

SHEET #
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MACHINERY WORK AREA – GENERAL NOTES

All machinery work areas shall be clearly marked and kept free of obstructions.

Only authorized personnel shall be permitted within the machinery operation zone.

Adequate clearance shall be provided around equipment for safe operation, servicing, and maintenance.

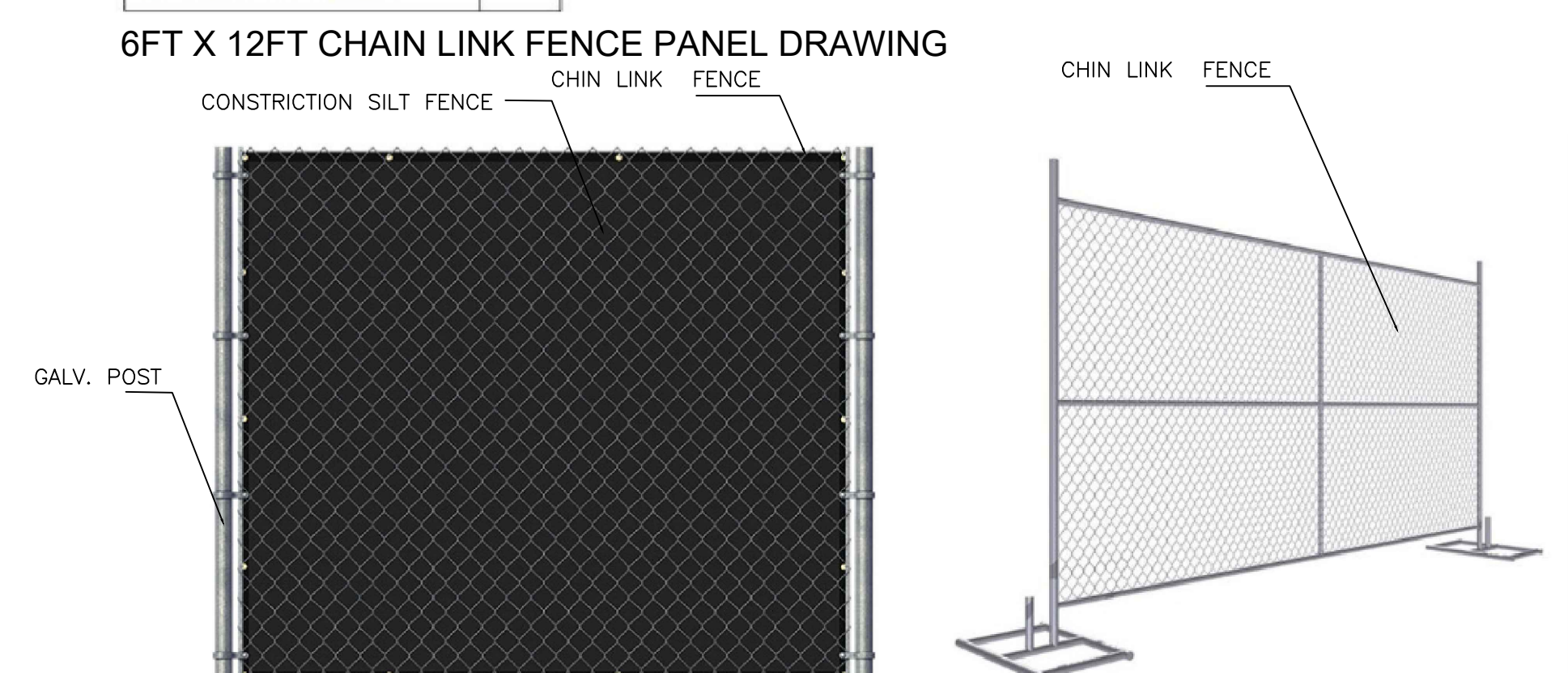
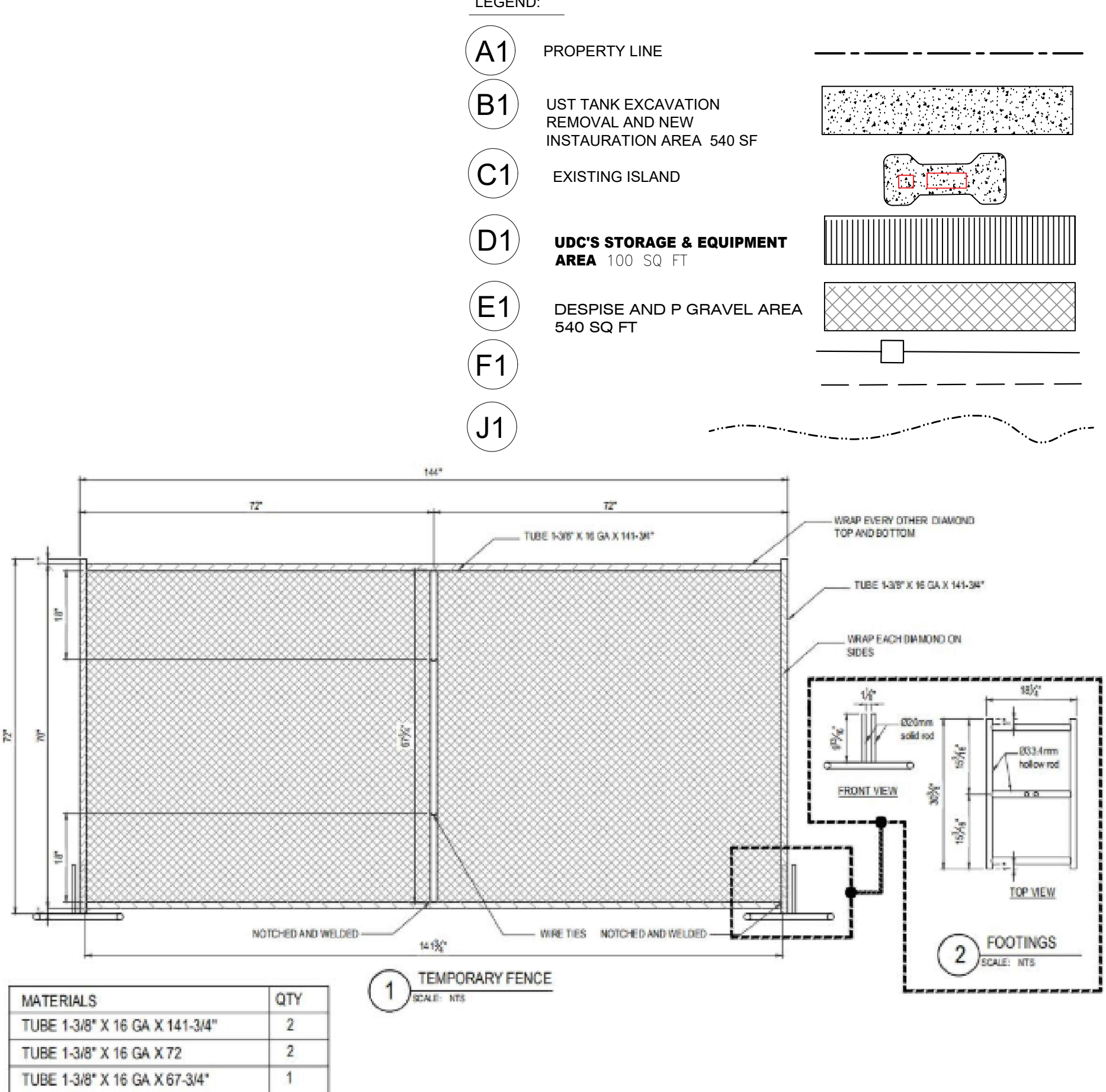
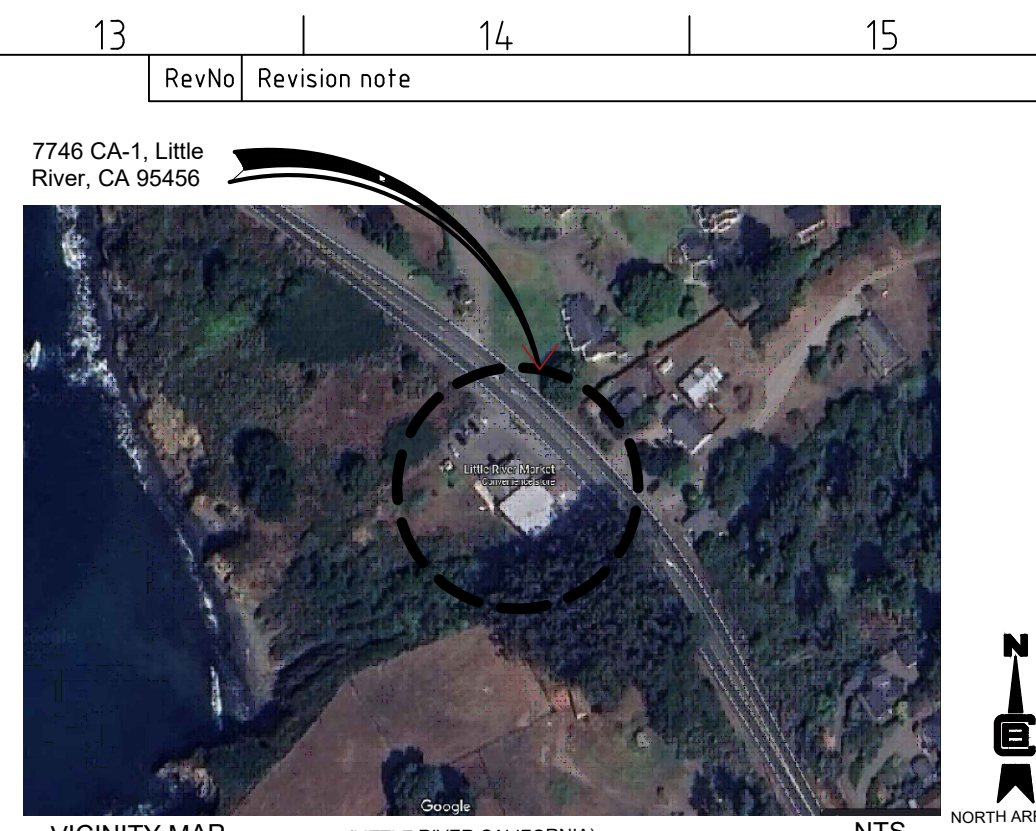
Barriers, cones, or fencing shall be installed as required to separate the machinery work area from pedestrian or vehicle traffic.

OSHA–compliant signage shall be posted indicating "MACHINERY WORK AREA –AUTHORIZED PERSONNEL ONLY."

All operators shall be trained and certified per OSHA and manufacturer requirements.

Proper PPE (hard hats, safety vests, steel-toed boots, gloves, and hearing protection) shall be worn within the designated machinery area.

Dust control, noise mitigation, and safety spotters shall be provided as necessary during operations.



RevNo

Revision note

7746 CA-1, Little River, CA 95456

VICINITY MAP

(LITTLE RIVER CALIFORNIA)

NTS.

NORTH ARROW

LICENSED ARCHITECT

ROBERT A. MASSETT

C-12648

RENEWAL DATE

STATE OF CALIFORNIA

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PROJECT ADDRESS:

7746 N HIGHWAY 1, LITTLE RIVER,

CA 95456 MENDOCINO COUNTY

BUSINESS NAME:

GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:

121-280-17-00

REVISIONS:

DATE	DESCRIPTION	BY
08-28-25	REVISION	

CURRENT ISSUE DATE:

08/28/2025

ISSUED FOR :

CONTROL NO.:

DRAWN BY: BOULEVARD

CHECKED: F C

APPROVED:

SHEET TITLE

SAFETY & TRAFFIC CONTROL PLAN

SHEET #

C-4.0

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RevNoRevision note

GENERAL NOTE:
UNLESS SPECIFIED OTHERWISE ON THESE DRAWINGS, THE GENERAL CONTRACTOR SHALL FURNISH ALL WORK AND MATERIALS TO COMPLETE THE INSTALLATION OF THE SYSTEMS AND EQUIPMENT SHOWN IN THESE DRAWINGS AND AS REQUIRED BY PROJECT DOCUMENTS PROVIDED TO THE CONTRACTOR.
WHERE THESE DRAWINGS DIFFER FROM LOCAL REGULATIONS, LOCAL REGULATIONS WILL SUPERSEDE THESE DRAWINGS IF THEY ARE MORE STRINGENT.
NOTE:
THESE GUIDELINES APPLY ONLY TO UNDERGROUND STORAGE TANKS AND PRODUCT PIPING. REFER TO BALANCE OF SITE SPECIFIC DOCUMENTS/ DRAWINGS FOR SPECIFICATIONS REGARDING CONCRETE/ASPHALT INSTALLATION, ELECTRICAL REQUIREMENTS, AND SANITARY & STORM SEWERS INSTALLATION.
ARCHITECTURAL AND CIVIL DRAWINGS SHALL TAKE PRECEDENCE FOR REFERENCING ALL DIMENSIONS, PROPERTY LINES, ELEVATIONS AND EQUIPMENT LOCATIONS.
ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BEFORE STARTING ANY WORK. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S ENGINEER FOR HIS DECISION BEFORE PROCEEDING WITH THE WORK.
ALL REQUESTS TO ADD, DELETE, OR SUBSTITUTE MATERIAL AND EQUIPMENT SHOWN ON THESE DRAWINGS MUST BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE OR HIS AGENT, PROJECT MANAGER IN CHARGE OF THE PROJECT. ALL CHANGES MUST BE REVIEWED WITH THE MARKETING FUELS MANAGER.
THE CONTRACTOR IS REQUIRED TO FURNISH AS-BUILT DRAWINGS TO LOCATE TANKS AND PIPING AS INSTALLED AFTER THE COMPLETION OF THE PROJECT.

(1) TANK INSTALLATION:
STANDARD: CONTRACTOR TO INSTALL DOUBLE WALL (MODERN WELDING TANK) WITH COMPLETE "VEEDER ROOT" TLS-450 AS PER CONTRACT PAGE PLUS TANK AND PIPING
MONITORING AND ALARM SYSTEM. TANKS TO BE SET MIN. 48" BELOW FINISH GRADE. SEE SITE SPECIFIC INSTALLATION DETAILS FOR TANK SIZES AND LOCATIONS.
LOCATION OF TANKS AND ASSOCIATED EQUIPMENT ON PROPERTY: FINAL FACILITY EQUIPMENT LOCATIONS INCLUDING PLACEMENT AND GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING APPROVED TANK AND EQUIPMENT LOCATIONS HAS BEEN DOCUMENTED W/ THE SITE ENGINEER AND/OR OWNER'S REPRESENTATIVE OR HIS AGENT, THE PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF WORK.

TANKS:
SHALL BE UNDERWRITERS LABORATORY APPROVED LISTED FOR THE UNDERGROUND STORAGE OF ALL FLAMMABLE AND COMBUSTIBLE MOTOR FUELS AS CALLED FOR ON THE SITE SPECIFIC DRAWING OR AS DESIGNATED ON THE SUPPLEMENTAL. CONDITIONS AND SHALL BE DOUBLE WALL TANKS OF MODERN WELDING
REINFORCED PLASTIC (FRP). INSTALLATION OF TANKS AND PIPING SHALL BE IN ACCORDANCE WITH U.L. LISTED MANUFACTURER'S INSTRUCTIONS. INSTALLATION SHALL CONFORM TO NFPA-30/30A AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. TANKS SHALL ONLY BE INSTALLED BY QUALIFIED INSTALLERS CERTIFIED BY THE STATE IN WHICH THE TANKS ARE TO BE INSTALLED AND BY THE TANK MANUFACTURER. THE UNDERGROUND STORAGE TANK SYSTEM SHALL BE COMPATIBLE WITH THE PRODUCT STORED. ALL CONTINUOUS MONITORING DEVICES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
ALL MATERIALS USED IN THE INSTALLATION SHALL BE COMPATIBLE WITH USE FOR THE INTENDED PURPOSE AS PER NATIONALLY RECOGNIZED CODES, LOCAL CODES AND GOVERNING AUTHORITIES.
METHANOL COMPATIBILITY: FOR ALL METHANOL COMPATIBLE STORAGE SYSTEMS, ALL READILY ACCESSIBLE COMPONENTS SHALL BE METHANOL COMPATIBLE FOR THE IMMEDIATE INTENDED SERVICE.
BIO-DIESEL COMPATIBILITY: CURRENTLY AT THIS TIME, NO TANKS ARE LISTED FOR BIO-DIESEL SERVICE APPLICATIONS.

INITIAL TANK TESTING:
CONTRACTOR SHALL COMPLETE ALL TESTING ACCORDING TO MANUFACTURER'S INSTRUCTIONS FOR TANKS. CONTRACTOR SHALL COMPLETE ALL WARRANTY VALIDATION TESTING AND PROVIDE DOCUMENTATION TO OWNER'S REPRESENTATIVE OR HIS AGENT.
IMMEDIATELY BEFORE INSTALLATION, ALL UNDERGROUND STORAGE TANKS SHALL BE TESTED. HYDROSTATICALLY MONITORED DOUBLE WALL TANKS SHALL BE TESTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS BY INSPECT AND ADJUST RESERVOIR LEVEL VISUALLY INSPECT THE TANK EXTERIOR FOR COLORED MONITORING FLUID PRESSURIZE THE PRIMARY TANK TO 5 PSI AND SOAP TEST ALL FITTINGS. DO NOT PRESSURIZE THE ANNULAR SPACE VISUALLY INSPECT THE TANK INTERIOR FOR ACCUMULATION OF COLORED MONITORING FLUID.
NOTE,
HYDROSTATIC FLUID RESERVOIR LEVEL MUST BE RECHECKED TO VERIFY TANK INTEGRITY PRIOR TO INTRODUCING BALLAST INTO TANKS.

FIELD REPAIR OF TANKS:
IT IS ALLOWABLE TO FIELD REPAIR DAMAGED TANKS AFTER APPROVAL BY ENGINEER. ALL TANKS DAMAGED IN TRANSPORT OR OFF LOADING OPERATIONS SHALL BE FIELD REPAIRED BY A TANK MANUFACTURER'S CERTIFIED FIELD SERVICE REPRESENTATIVE. TANK MANUFACTURER SHALL RE-CERTIFY REPAIRED TANKS FOR USE. ALL FIELD SERVICE WORK SHALL BE DOCUMENTED. COPIES OF ANY AND ALL FIELD SERVICE DOCUMENTATION SHALL BE PLACED IN THE PROJECT FILE AND INTO OWNERS OPERATING FILE.

TANK MEASUREMENTS:
THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COMPILATION OF THE FOLLOWING TANK MEASUREMENT ACTIVITIES:
1. VERIFY THE EXTERNAL SIZE OF THE TANK TO MATCH WITH MANUFACTURER SUPPLIED SHOP MEASUREMENTS.
2. TRANSFER THE SIZE, SERIAL NUMBER, AND PRODUCT INSTALLED, AND POSITION OF TANK TO THE AS-BUILT PLAN.
3. PROVIDE THE TOP OF TANK ELEVATION READING AT BOTH ENDS OF EACH TANK.
TANK EXACTION SECTION MEASUREMENT PROCEDURE:
DEFLECTION MEASUREMENT BEFORE AND AFTER TANK INSTALLATION SHALL BE ACCORDING TO MANUFACTURER'S REQUIREMENTS AND SHALL BE WITHIN MANUFACTURER'S TOLERANCES. ALL INFORMATION SHALL BE COMPLETED AS PER THE MANUFACTURER'S WARRANTY DOCUMENTATION.

DOUBLE WALL FRP TANK

I.D ="B"

BEFORE BACK FILL

DOUBLE WALL FRP TANK

I.D ="B"

AFTER BACK FILL

TANK INSPECTION AND INSTILLATION -DEFLECTION MEASUREMENT

DIPSTICK PREPARATION
DRIVE A SMALL HEADED, NON-SPARKING (E.G. BRASS) NAIL HALFWAY INTO A WOODEN DIPSTICK, 1 INCH ABOVE ITS BASE.
1. PLACE THE DIPSTICK INTO A SERVICE FITTING.
2. MEASURE AND RECORD THE DISTANCE FROM THE TANK BOTTOM TO THE TOP OF THE FITTING.
3. PULL THE DIPSTICK UP UNTIL THE EXPOSED NAIL CATCHES ON THE INSIDE TOP OF TANK.
4. MEASURE THE DISTANCE FROM THE TANK TOP (INSIDE) TO THE TOP OF THE FLATTING. SUBTRACT 1 INCH FROM THIS MEASUREMENT AND RECORD THE DISTANCE.
5. SUBTRACT THE SECOND DISTANCE FROM THE FIRST AND RECORD THIS VALUE AS READING "A" ON THE INSTALLATION CHECKLIST.
1. PLACE THE DIPSTICK INTO A SERVICE FITTING WITH A STANDPIPE INSTALLED TO SUBGRADE.
2. MEASURE AND RECORD THE DISTANCE FROM THE TANK BOTTOM TO THE TOP OF THE STANDPIPE.
3. PULL THE DIPSTICK UP UNTIL THE EXPOSED NAIL CATCHES ON THE INSIDE TOP OF TANK.
4. MEASURE THE DISTANCE FROM THE TANK TOP (INSIDE) TO THE TOP OF THE STANDPIPE. SUBTRACT 1 INCH FROM THIS MEASUREMENT AND RECORD THE DISTANCE.
5. SUBTRACT THE SECOND DISTANCE FROM THE FIRST AND RECORD THIS VALUE AS READING "B" ON THE INSTALLATION CHECKLIST. CALCULATION AND COMPARISON
1. SUBTRACT READING "B" FROM READING "A".
2. COMPARE THIS VALUE TO THE TABLE OF "MAXIMUM ALLOWABLE DEFLECTIONS" SHOWN ON THE "INSTALLATION CHECKLIST".
3. VERTICAL DEFLECTION IN EXCESS OF THESE VALUES INDICATES IMPROPER INSTALLATION AND VOIDS THE TANK WARRANTY.
MAXIMUM DEFLECTION FOR 8'-0" TANKS = 1-1/4" MAXIMUM DEFLECTION FOR 10'-0" TANKS = 1-1/2"

TOP OF TANK ELEVATION:
CONTRACTOR TO CALCULATE TOP OF TANK ELEVATION. START WITH 18" MINIMUM DEPTH OF VAPOR RECOVERY LINE AT THE FARTHEST DISPENSER AND SLOPE 1/4" PER FOOT MAXIMUM TO 1/8" PER FOOT MINIMUM. ADD 12" AT THE TANK. ADD 13" (FOR 3" PIPE) OR 8" (FOR 2") FOR A CHANGE IN PIPING DIRECTION OTHER THAN 90 OR 45 DEGREES. SET TANKS 6" DEEPER THAN CALCULATED AS PRECAUTION. IN NO EVENT SHALL THE TANK BE BURIED LESS THAN 4'-0" BELOW FINISHED GRADE OR DEEPER THAN 7'-0" BELOW FINISHED GRADE. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MINIMAL TANK BURY WHEN DEADMEN ANCHORING IS NOT PROVIDED. ANY VARIATIONS IN SLOPE FROM 1/4" PER FOOT SHALL BE REPORTED TO OWNER'S ENGINEER.

TANK EXCAVATION-
CONTRACTOR TO EXCAVATE TANK HOLE. CONTRACTOR SHALL ADHERE TO O.S.HA STANDARDS ON EXCAVATIONS. CONTRACTOR MAY SELECT ANY OF THE RECOMMENDED PRACTICES FOR TANK EXCAVATION AND MUST PROVIDE ALL NECESSARY PROTECTIVE BARRICADES.
SLOPE SIDES OF TANK HOLE OR USE SHORING FOR ALL TANK EXCAVATIONS IN ACCORDANCE WITH OSHA 1926 SUBPART P, OSHA STANDARDS – EXCAVATIONS; FINAL RULE OCTOBER 1, 1989. WHEN ENGINEERED SHORING IS REQUIRED DUE TO SITE CONDITIONS AN ENGINEERED SHORING . PLAN UTILIZING INTERLOCKING STEEL SHEET PILING SHALL BE PROVIDED AND SHALL INCLUDE SUPPORTING ENGINEERING CALCULATIONS BY A STATE CERTIFIED ENGINEER AND SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
GENERAL CONT REACTOR SHALL OBTAIN NECESSARY PERMIT FROM APPLICABLE AGENCIES FOR EXCAVATIONS OF TRENCHES 5'-0" OR MORE IN DEPTH NET O WHICH A PERSON IS REQUIRED TO DESCEND.
TANK EXCAVATIONS SHALL BE THE MINIMUM SIZE REQUIRED TO PROVIDE FOR BEDDING AND CLEARANCES INDICATED IN THESE DRAWINGS. TANK BURIAL DEPTH FIELD DETERMINED TO PROVIDE FOR 1/4" (1/8" PER FOOT MIN.) PER FOOT FOR STAGE II VAPOR RECOVERY PIPING & 1/8" MINIMUM PER FOOT FOR PRODUCT PIPING SLOPE BACK FROM DISPENSERS TO TANK.

TANK STABILITY CITY BUOYANCY CALCULATIONS.
TANK STABILITY SHALL BE RE-CHECKED AGAINST FLOATATION BY INSTALLING CONTRACTOR. SEE BUOYANCY CALCULATIONS ON TANK DETAILING SHEETS.
TANK ANCHORING CONTRACTOR TO INSTALL MANUFACTURER SUPPLIED TANK HOLD DOWN STRAPS & ANCHORS WHEN REQUIRED DUE TO HIGH WATER TABLE. LOCAL REGULATIONS, OR SPECIFIED BY SITE ENGINEER/DESIGNER AND/OR OWNER'S REPRESENTATION: OR HIS AGENT. WHEN REQUIRED, THE ANCHORING SYSTEM SHALL BE IN COMPLIANCE WITH AUTHORITY HAVING JURISDICTION. ANCHOR & STRAPS TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. ALTERNATE ANCHORING BY USE OF A CONCRETE ANCHORING SLAB IS PERMITTED. WHEN GROUNDWATER LEVEL IS ANTICIPATED TO BE WITHIN 5 F T OF GRADE CONTRACTOR R SHALL NOT IF OWNER 'S REPRESENTATIVE FOR DIRECTION TIN ON ANCHORING METHOD TO BE USED (DEADMAN OR ANCHORING SLAB) AN D SUCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION.
IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE FOR THE INSTALLATION OF FILTER FABRIC (DUPONT TYPE OR MIRAFI 500X) WHICH IS REQUIRED FOR WET HOLE INSTALLATIONS ONLY. FABRIC MUST EXTEND 1' ABOVE MAX. HIGH WATER TABLE AND MAY BE PINNED TO SIDE OF HOLE WITH WIRE, ETC. SEAMS MUST BE LAPPED 1' MINIMUM.

WET HOLE BALLAST OPTION-
WATER IS THE SUITABLE MEDIUM FOR BALLAST DURING WET HOLE TANK INSTALLATIONS. A PROPERLY INSTALLED 12 FOOT HIGH TEMPORARY VENT PIPE MUST BE INSTALLED BY THE CONTRACTOR. IF WATER IS USED TO BALLAST TANKS, THE WATER IS TO BE COMPLETELY PUMPED OUT & MOPPED DRY IN ORDER TO PROTECT FUEL INTEGRITY. CONTRACTOR IS REQUIRED TO COORDINATE BALLASTING OPERATIONS WITH OWNER'S REPRESENTATIVE OR HIS AGENT.

IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE JURISDICTIONAL REQUIREMENTS AND ACCEPTANCE FOR BALLASTING THE TANKS AND
TO PROVIDE FOR PROPER DISPOSAL OF THE BALLASTING MEDIUM UNDER THE REGULATIONS OF THE GOVERNING AUTHORITY.
BACK FILL. CONTRACTOR TO PROVIDE ALL BACKFILL REQUIRED FOR THE PROJECT SCOPE. PEA GRAVEL SHALL CONSIST OF NATURALLY ROUNDED AGGREGATE MINIMUM 1/8" AND MAXIMUM 3/4" SIZE. FREE OF CLAY, SLAG, CINDERS, OR DEBRIS. ALL SUBSTITUTES MUST BE APPROVED BY MANUFACTURER AND OWNERS FIELD REPRESENTATIVE MAY.
NO MORE THAN 5% (BY WEIGHT) **W**AY PASS THE #B SIEVE FOR BACK FILLING NONMETALLIC TANKS WITH A 96% TO 98% FREE FALL COMPACTION. DRY PEA GRAVEL DENSITY MINIMUM OF 95 POUNDS PER CUBIC FOOT IS REQUIRED. SUPPLY QUARRY CERTIFICATION MEETING ASTM C-33, PARAGRAPH 9.1 REQUIREMENTS.
BACK FILLING OF TANK EXCAVATIONS SHALL BE PROVIDED IN LIFTS AS PER TANK MANUFACTURER'S Installation INSTRUCTIONS.
PRODUCT, VENT, AND VAPOR PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" BED OF COMPACTED PEA GRAVEL. BLOCKS, PLANKS, OR OTHER DEBRIS SHALL NOT BE USED TO SUPPORT PIPING IN FINAL INSTALLATION.
NOTE: UNDER NO CIRCUMSTANCES SHALL DIRT, PAVING MATERIALS, WOOD, OR OTHER CONSTRUCTION DEBRIS BE ALLOWED TO REMAIN IN TANK AND PIPE EXCAVATIONS.
ANNULAR SPACE HYDROSTATIC MONITOR AND RISER INSTALLATION:
STANDARD: CONTRACTOR TO INSTALL 4" FIBERGLASS RISER AND VEEDER ROOT HYDROSTATIC SENSOR AT TANK ANNULAR SPACE LOCATION NOTED ON THE PLANS PER MANUFACTURERS INSTRUCTIONS.
TANK SUMP INSTALLATION:
CALIFORNIA\ VARIANT: CONTRACTOR TO INSTALL 42" FILL SUMPS AND 48" TURBINE SUMP TO BE DOUBLE WALLED AND INSTALLED WITH CONTINUOUS HYDROSTATIC MONITORING DEVICE PER AB-2481 REQUIREMENTS AND PER MANUFACTURER'S INSTRUCTIONS. NOTE THAT THE ORIENTATION OF THE TANK SUMPS MUST BE CORRECT IN ORDER TO FACILITATE CORRECT PIPING INSTALLATION INTO THE SUMPS. SEE ACCOMPANYING DETAILS IN PLAN SET
4) TANK LEVEL GAUGE / OVERFLOW PROTECTION:
STANDARD: CONTRACTOR TO INSTALL VEEDER ROOT MAGNOSTRICTIVE PROBE LEVEL GAUGE AT LOCATION NOTED ON PLANS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
OVERFLOW PROTECTION: UST OVERFLOW COMPLIANCE IS ACHIEVED BY USE OF OVERFLOW PREVENTION DROP TUBE FLAPPER VALVE SET AT 95% AND IS IN ACCORDANCE WITH FEDERAL AND STATE GUIDELINES FOR UST OVERFILL REQUIREMENTS.
AN OVERFILL ALARM AND ACKNOWLEDGE SWITCH TIED INTO THE VEEDER ROOT AUTOMATIC TANK GAUGE SYSTEM. THE MONITORING SYSTEM PROVIDES AN AUDIBLE AND VISUAL ALARM WHEN THE TANK(S) ARE FILLED TO THE 90% LEVEL.

(5) FILL AND STAGE I VAPOR RECOVERY INSTALLATION:
STANDARD: CONTRACTOR TO INSTALL GALVANIZED FILL AND STAGE I VAPOR RECOVERY RISERS. CONTRACTOR TO INSTALLATION. ALL DROP TUBE ASSEMBLY. WITH OVERFILL PREVENTION DROP TUBE. CONTRACTOR TO INSTALL VENT AND STAGE II FLEX CONNECTORS AND FRP ADAPTERS. LOCATE AND CUT PENETRATIONS INTO SUMPS FOR THE ROUTING OF VENT AND STAGE II VAPOR PIPING INTO TURBINE SUMPS AND MAKE CONNECTIONS TO VENT AND VAPOR PIPING FIBERGLASS PIPING. CONTRACTOR TO INSTALL DOUBLE SIDED PENETRATION ENTRY BOOTS FOR ALL ENTRIES INTO SUMPS. CONTRACTOR TO INSTALL STATIC GROUNDING SYSTEM AT ALL FILL AND VAPOR RISERS PER INSTALLATION DETAILS
CONTRACTOR TO INSTALL CARB APPROVED STAGE I MANHOLES WITH 5 GALLON SPILL COLLECTION BUCKETS. INSTALL PRODUCT AND FILL ADAPTERS AND CAPS. SEE ACCOMPANYING DETAILS IN SITE SPECIFIC PLAN SET FOR MANUFACTURER AND INSTALLATION REQUIREMENTS.

(6) TURBINE INSTALLATION-
STANDARD: CONTRACTOR TO INSTALL 2 HP VARIABLE SPEED TURBINES AND PIPING CONNECTION VALVES AND FITTINGS IN TANK SUMPS AS SHOWN ON SITE SPECIFIC DETAIL DRAWINGS. ALL PRODUCT LINES TO TURBINES TO BE EQUIPPED WITH 3 GPH ELECTRONIC LINE LEAK DETECTION. LEAK DETECTORS ARE TO BE TESTED FOR THE 3 GPH LEAK DETECTION PRIOR TO START UP. CONTRACTOR TO PROVIDE TEST DATA AT THE TIME OF PUNCH LIST AS WELL AS INCLUDE IN CLOSE OUT BINDER. ALL TURBINES ARE EQUIPPED WITH STANDARD "R" CHECK VALVE AS A STANDARD FROM FACTORY. SIB TURBINE INTAKES AT 5" FROM BOTTOM OF TANKS. TURBINES TO BE EQUIPPED WITH INTAKE FILTER SCREENS. CONTRACTOR TO INSTALL 1" RIGID STEEL CONDUITS FOR SUBMERSIBLE PUMP POWER, (ONE FOR EACH TURBINE). CONTRACTOR IS TO LABEL TURBINES AND CONTROLLERS AS TO WHICH PRODUCT THEY SERVE. GREEN CONTROLLER LIGHTS ARE TO GO OUT WHEN TURBINES ARE OFF OR LOSE POWER. 1ST PUMP CONTROLS ARE TIED TO VEEDER ROOT TLS-450 PLUS SEE APPROPRIATE TURBINE CONFIGURATION AND PROGRAMMING SHEETS.
SINGLE MASTER TURBINE CONFIGURATIONS – EQUIPPED AS NOTED ABOVE. SEE APPROPRIATE SITE SPECIFIC DRAWINGS FOR INSTALLATION DETAILS.

(7) PRODUCT PIPING INSTALLATION:
CALIFORNIA: CONTRACTOR TO INSTALL DOUBLE WALL FIBERGLASS PRODUCT PIPING WITH CONTINUOUS VACUUM MONITORING DEVICE PER AB-2481 REQUIREMENTS PRODUCT PIPING, CONNECTORS, VALVES AND FITTINGS IN TANK AND DISPENSER SUMPS AS SHOWN ON SITE SPECIFIC DETAIL DRAWINGS TO SUPPLY DISPENSERS. PRODUCT PIPING TO BE N.O.V. RED THREAD 2" INSIDE 3" DIAMETER AS INDICATED ON SITE SPECIFIC FUELING PLAN. ALL PIPING AND FITTINGS SHALL BE UL-971 LISTED IN COMPLIANCE WITH THE JULY 2005 PERFORMANCE STANDARDS, AND SHALL BE COMPATIBLE WITH ETHANOL. PRODUCTS LINES TO BE EQUIPPED 3 GPH PRESSURE LINE LEAK DETECTORS (PLLD) ON TURBINES AND WITH LIQUID LEAK MONITORING SENSORS LOCATED IN TURBINE PIPING SUMPS ATTACHED TO TANKS WIRED FOR TURBINE SHUT DOWN. PRODUCT PIPING IN TURBINE SUMPS. ARE TO ENTER THE SAME SIDE OF THE SUMP IF POSSIBLE. IF PRODUCT PENETRATION ENTERS ON BOTH SIDES OF SUMP DUE TO FIELD CONDITIONS, THEN DUAL SENSORS AT TURBINE SUMP MAY BE REQUIRED TO BE INSTALLED BY LOCAL REGULATIONS. IF THE OWNERS ENGINEER DETERMINES THAT THE ALL THE PIPING ENTRIES NOTED ABOVE COULD HAVE BEEN MADE TO THE SAME SIDE OF THE SUMP, THEN ANY COSTS ASSOCIATED WITH EXTRA SENSORS SHALL BE BORNE BY THE INSTALLING CONTRACTOR. PIPING TO BE INSTALLED WITH A SLOPE OF 1/8" PER FOOT MINIMUM TO TANKS UNLESS APPROVED BY OWNER. CONTRACTOR TO INSTALL TRACER TAPE 111TH PRODUCT PIPING PER TRENCHING DETAIL& PENETRATIONS INTO ALL SUMPS SHALL BE MADE WITH DOUBLE WALL FRP ENTRY FITINGS. TESTING OF PRODUCT LINES SHALL BE PERFORMED PRIOR TO BACK FILL, PRIOR TO PAVING AND BEFORE STATION OPERATION. SEE SITE SPECIFIC DETAIL SHEETS FOR INSTALLATION DETAILS.
NOTE: FIBERCAST SYSTEMS PIPING TO BE INSTALLED PER MANUFACTURER'S INSTALLATION MANUAL AND SHALL ONLY BE INSTALLED BY QUALIFIED INSTALLERS CERTIFIED BY THE MANUFACTURER.

(8) VENT PIPING INSTALLATION:
CALIFORNIA CONTRACTOR TO INSTALL DOUBLE WALL FIBERGLASS VENT PIPING WITH CONTINUOUS VACUUM MONITORING DEVICE PER AB-2481 REQUIREMENTS. VENT PIPING, CONNECTORS, VALVES AND FITTINGS ON TANKS AS INDICATED ON SITE SPECIFIC FUELING PLAN AND ACCOMPANYING DETAILS. CONTRACTOR TO PROVIDE AT LEAST 4 FEET OF PIPING RUN BEFORE A CHANGE OF DIRECTION OF 30 DEGREES OR MORE IN ORDER TO PROVIDE MECHANICAL FLEXIBILITY PER CODE REQUIREMENTS. CONTRACTOR TO INSTALL TRACER TAPE WITH VENT PIPING PER TRENCHING DETAILS . PENETRATION INTO ALL SUMPS SHALL BE MADE WITH SINGLE WALL ENTRY FITTINGS VENT PIPING SHALL BE DESIGNED AND INSTALLED FOR SLOPE 1/4" PER FOOT MINIMUM BACK TO TANKS. FOR LONG PIPING RUNS 1/8" PER FOOT IS ACCEPTABLE.

CONTRACTOR TO INSTALL ABOVE GROUND RISERS AND MOUNTING RACK AS DETAILED ON THESE PLANS. TERMINATION POINT OF TANK VENTS TO BE A MINIMUM OF 12' ABOVE GRADE AND NOT WITHIN 5' FROM ANY BUILDING OPENING OR PROPERTY LINE THAT CAN BE BUILT UPON. VENT RISERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-30, INTERNATIONAL AND UNIFORM FIRE CODE REQUIREMENTS AND CARS EVR REQUIREMENTS.
CONTRACTOR TO INSTALL TWO (2) 1" SPARE CONDUITS FROM VENT STACK TO INTRINSICALLY SAFE WIREWAY IN BUILDING FOR FUTURE TANK SYSTEM DIAGNOSTICS.
CONTRACTOR TESTING OF VENT LINES SHALL BE PERFORMED PRIOR TO BACK FILL, PRIOR TO PAVING AND BEFORE STATION OPERATION. SEE SITE SPECIFIC DETAIL SHEETS FOR INSTALLATION DETAILS. SEE FIBERGLASS PIPING MANUFACTURER SPECIFICATION BELOW.

VENT PIPING SPECIFICATION:
FIBERCAST SYSTEMS: RED THREAD II PIPE AND FITTING DOUBLE WALL SYSTEMS ARE REQUIRED FOR ALL VENT AND VAPOR PIPING. USE SIZE OVER SIZE RED THREAD II PIPING AND FITTINGS. USE ONLY FIBERCAST SYSTEMS ALCOHOL COMPATIBLE ADHESIVES . ALL PIPING AND FITTINGS SHALL BE UL-971 LISTED IN COMPLIANCE WITH THE JULY 2005 PERFORMANCE STANDARDS.
PIPING TO BE INSTALLED PER MANUFACTURER'S LISTED INSTRUCTIONS AND SHALL ONLY BE INSTALLED BY QUALIFIED INSTALLERS CERTIFIED BY THE MANUFACTURER. PROVIDE AT LEAST 4' OF STRAIGHT PIPING RUN BEFORE A CHANGE OF DIRECTION OF MORE THAN 30 DEGREES AND INSTALL FLEXIBLE CONNECTORS AT THE VENT AND VAPOR CONNECTION AT THE TANK SUMPS, AND DISPENSER SUMPS.

(9) STAGE II VAPOR RECOVERY PIPING INSTALLATION:
CALIFORNIA= CONTRACTOR TO INSTALL DOUBLE WALL FIBERGLASS STAGE II VAPOR RECOVERY PIPING AND INSTALLED WITH CONTINUOUS VACUUM MONITORING DEVICE PER AB-2481 REQUIREMENTS. ALL CONNECTIONS TO THE TANKS SHALL BE MADE WITH 3" CONNECTORS, VALVES AND FITTINGS TO THE LOWEST OCTANE GRADE AS INDICATED ON SITE SPECIFIC FUELING PLAN AND ACCOMPANYING DETAILS. NOTE THAT THE 1ST CONNECTION FROM STAGE II VAPOR RECOVERY HEADER TO LOWEST OCTANE TANK SHALL BE 3" INSIDE +". ALL OTHER CONNECTIONS TO ADDITIONAL TANKS SHALL BE MADE WITH 2" INSIDE 3". CONTRACTOR TO INSTALL 3" INSIDE 4" TO 2" INSIDE 3" REDUCING TEES WHERE HEADERS BRANCH TO DISPENSERS.
MAXIMUM (2) DISPENSERS PER 2" BRANCH. CONTRACTOR TO PROVIDE AT LEAST 4 FEET OF PIPING RUN BEFORE A CHANGE OF DIRECTION OF 30 DEGREES OR MORE IN ORDER TO PROVIDE MECHANICAL FLEXIBILITY PER CODE REQUIREMENTS. CONTRACTOR TO INSTALL TRACER TAPE WITH VAPOR PIPING PER TRENCHING DETAILS. PENETRATIONS INTO ALL SUMPS SHALL BE MADE WITH DOUBLE WALL ENTRY FITTINGS. STAGE II VAPOR RECOVERY PIPING SHALL BE DESIGNED AND INSTALLED FOR 1/4" PER FOOT MINIMUM SLOPE BACK TO TANKS. AT LARGE SITE LAYOUTS, 1/8" PER FOOT MINIMUM IS ACCEPTABLE IF IT AVOIDS USING A KNOCK OUT SUMP (VAPOR POT) OR HAVING EXCESSIVE TANK DEPTH. CONSULT OWNER'S REPRESENTATIVE OR HIS AGENT. WHERE DISCREPANCIES OCCUR.

CONTRACTOR TESTING OF STAGE II VAPOR LINES SHALL BE PERFORMED PRIOR TO BACK FILL, PRIOR TO PAVING AND BEFORE STATION OPERATION. SEE SITE SPECIFIC DETAIL SHEETS FOR INSTALLATION DETAILS. SEE FIBERGLASS PIPING MANUFACTURER SPECIFICATION BELOW.
STAGE II PIPING SPECIFICATION:
FIBERCAST SYSTEMS: RED THREAD II PIPE AND FITTINGS DOUBLE WALL SYSTEMS ARE REQUIRED FOR ALL VENT AND VAPOR PIPING. USE SIZE OVER SIZE RED THREAD II PIPING AND FITTINGS. USE ONLY FIBERCAST SYSTEMS ALCOHOL COMPATIBLE ADHESIVES. ALL PIPING AND FITTINGS SHALL BE UL-971 LISTED IN COMPLIANCE WITH THE JULY 2005 PERFORMANCE STANDARDS.
PIPING TO BE INSTALLED PER MANUFACTURER'S LISTED INSTRUCTIONS AND SHALL ONLY BE INSTALLED BY QUALIFIED INSTALLERS CERTIFIED BY THE MANUFACTURER. PROVIDE AT LEAST 4' OF STRAIGHT PIPING RUN BEFORE A CHANGE OF DIRECTION OF MORE THAN 30 DEGREES AND INSTALL FLEXIBLE CONNECTORS AT THE VENT AND VAPOR CONNECTION AT THE TANK SUMPS, AND DISPENSER SUMPS.

10. STAGE II EVR WITH ISO DESIGN INCORPORATED INTO THE UST SYSTEMS VEEDER ROOT CARBON CANISTER VAPOR POLISHER WITH VST BALANCE HANGING HARDWARE AND VEEDER ROOT ISO COMPONENTS.

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ROBERT A. MASSETT

C-12648

RENEWAL DATE: 12/31/2024

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REVISIONS:

DATE:	DESCRIPTION	BY:
08-28-25	REVISION	△

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SHEET TITLE

TANK AND PIPING
INSTALLATION
GENERAL NOTE

SHEET #

F-1.0

TANK AND PIPING INSTALLATION GENERAL NOTE

(11) METAL PIPE AND FITTINGS:

STANDARD: STEEL PIPE SHOWN ON THESE DRAWINGS TO BE MINIMUM SCHEDULE 40. METAL PRODUCT LINE FITTINGS TO BE MALLEABLE IRON CLASS 150, GALVANIZED. ALL MALLEABLE IRON FITTINGS SHALL BE SUPPLIED BY "ANVIL"(FORMALLY "GRINNER") OR EQUAL SPECIFICATIONS AS FOLLOWS:

M.I. FITTING	DIMENSIONS	MATERIAL	GALVANIZED	THREAD	PRESSURE RATING
(TEES,ELBOWS) CLASS 150/PN 20	ASME B16.3	ASTM A-197	ASTM A-153	ASME B.1 20.1	ASME B16.3
M.I UNIONS CLASS 150/PN 20	ASME B16.39	ASTM A-197	ASTM A-153	ASME B.1 20.1	ASME B16.3
STEEL PIPE NIPPLES CLASS 150/PN 20	ASTM A733	ASME B16.3	ASTM A-153	ASME B.1 20.1	ASME B16.3
STEEL PIPE CLASS 150/PN 20 SCHEDULE 40	N/A	ASTM A-53 (F OR E)	ASTM A-153	ASME B.1 20.1	ASME B16.3

GASOLINE COMPATIBLE THREAD SEALANT TO BE USED ON ALL THREADED PIPE CONNECTIONS. ANY METAL PIPE OR FITTING USED FOR PRODUCT, VENT, OR VAPOR RECOVERY WHICH CONTACTS SOIL OR BACK FILL MUST BE 100,;; COVERED WITH A 100 MIL. COATING OF COAL TAR EPOXY (ROSS COAT OR 3M SCOTCH WRAP #50 TAPE).

(12) PIPING SUMP PENETRATION INSTALLATION:

STANDARD: CONTRACTOR TO INSTALL SUMP PENETRATION FITTINGS. ALL PENETRATIONS OF THE SUMPS TO BE ON A LINE TOWARD THE CENTER OF THE SUMP. NOT TO EXCEED MANUFACTURERS RECOMMENDED ANGLE IN ANY DIRECTION, TO ENSURE THE PROPER INSTALLATION OF ALL BULKHEAD AND COMPRESSION FITTINGS AND RESULTANT WATER TIGHTNESS. ALL PIPING, CONDUIT AND GROUNDS THAT PENETRATE THE SUMP SIDE WALLS MUST BE SEALED WITH DOUBLE SIDED BULKHEAD FITTINGS IN SUMPS. SUMPS SHALL BE HYDROSTATICALLY TESTED WITH STANDING WATER FOR A PERIOD OF 24 HOURS OR CERTIFIED USING SUMP MANUFACTURERS APPROVED TESTING PROCEDURE TO INSURE THAT SUMPS ARE WATERTIGHT. THE OWNER'S ENGINEER, MUST SIGN OFF ON THIS TESTING ON THE TANK INSTALLATION CHECK UST. MANUFACTURER ENTRY BOOT TYPE VARIANT: THE MAKE AND MODEL NUMBERS OF THE PIPING PENETRATION FITTINGS SHOWN IN THE DETAILS ARE NOT SUBJECT TO CHANGE. N.O.V. FRP BONDED ENTRY FITTINGS ARE REQUIRED FOR ALL PIPING PENETRATIONS. CONDUIT PENETRATIONS INTO SUMPS SHALL BE AS SPECIFIED ON THE PLANS. CALIFORNIA VARIANT, CONTRACTOR TO INSTALL SUMP PENETRATION FITTINGS THAT THE ADDITIONAL CRITTER REQUIREMENT FOR CONTINUOUS HYDROSTATIC AND VACUUM MONITORING.

(13) DISPENSER INSTALLATION:

STANDARD, CONTRACTOR TO INSTALL **WAYNE DISPENSERS** (NA-R22/2-OVATION2) BLENDING 3+0 S SERIES FOUR PRODUCT, TWO SIDED, FOUR HOSE DISPENSER WITH 5.7

COLOR, EMV HCR (CHIP) CARD READER PUMP EQUIPMENT STYLE DISPENSERS WITH INTEGRATED CARD RACERS AND INTERCOM SYSTEM AS SHOWN ON SITE SPECIFIC DESIGN DETAIL SHEETS. DISPENSERS TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION TO INCLUDE DISPENSER ISLANDS, SINGLE WALL DISPENSER CONTAINMENT SUMPS, AND THE INSTALLATION OF ALL SHEAR VALVES, RISERS, PIPING CONNECTIONS AND ALL PENETRATIONS INTO THE SUMPS. SEE TANK ELECTRICAL DRAWINGS FOR CONDUIT AND WIRING REQUIREMENTS.

DISPENSER START UP:

START UP BY MANUFACTURERS REPRESENTATIVE. CONTRACTOR TO PURGE LINES WITH 200 GALLONS PER HOSE MINIMUM. ANY AIR POCKETS OR START UP PROBLEMS DUE TO IMPROPER INSTALLATION OR INCORRECT WIRING THAT DESTROYS ELECTRONICS WILL BE BILLED BACK TO THE CONTRACTOR

CALIFORNIA VARIANT:
DISPENSER SUMPS TO BE DOUBLE WALL AND INSTALLED WITH CONTINUOUS HYDROSTATIC MONITORING DEVICE PER AB-2481 REQUIREMENTS

INSTALLATION OF HANGING HARDWARE:

CALIFORNIA VARIANT - CONTRACTOR TO INSTALL ORVR/PHASE II EVR COMPATIBLE HOSES, NOZZLES, SWIVELS AND BREAK AWAY VALVES PER APPLICABLE CARB. EXECUTIVE ORDER WILL IN SYSTEM DIAGNOSTICS (ISD) PER LOCAL JURISDICTIONAL REQUIREMENTS.

(14) SUMP SENSOR INSTALLATION:

CONTRACTOR TO INSTALL ALL FILL SUMP, TURBINE SUMP AND DISPENSER SUMP SENSORS PER VEEDER ROOT INSTALLATION INSTRUCTIONS. SUMP SENSORS TO BE INSTALLED IN SUMP HOLDERS MOUNTED TO SIDE OF SUMP WALLS SEE TANK DETAIL SHEETS FOR LIQUID SENSOR DETAILS. TURBINE SIDE SUMP SENSORS TO BE MOUNTED AT SIDE OF TANK WHERE PRODUCT PENETRATION INTO SUMP IS MADE AND BELOW LOWEST PENETRATION FITTING WITHIN SUMP AREA AT BOTTOM OF SUMP. SEE TANK ELECTRICAL DRAWINGS FOR MONITORING CONDUIT DETAILS AND SENSOR AND PROBE WIRING DETAILS.

(15) OVERFILL ALARM AND ACKNOWLEDGE SWITCH INSTALLATION:

CONTRACTOR TO INSTALL OVERFILL ALARM & ACKNOWLEDGMENT AS SHOWN. ALARM AND SWITCH TO BE LOCATED TO PROVIDE AN UNOBSTRUCTED VIEW TO TRUCK DRIVER. PROVIDE BOLLARD PROTECTION OF FREE STANDING POLE. SEE SITE SPECIFIC WIRING DIAGRAM AND DETAILS FOR MOUNTING REQUIREMENTS.

(16) VEEDER ROOT TLS-450 CONSOLE INSTALLATION:

CONTRACTOR TO INSTALL "VEEDER ROOT" TANK AND LINE ALARM CONTROL PANEL MODEL #TLS-450 IN BUILDING. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION IN BUILDING.

CALIFORNIA VARIANT: CONSOLE TO BE EQUIPPED WITH ADDITIONAL SENSOR MODULES TO ADDRESS AB-2481 AND CARB ISD REQUIREMENTS.

(17) CONCRETE TANK SLAB INSTALLATION:

REFER TO PROJECT GENERAL SPECIFICATIONS FOR ADDITIONAL CONCRETE REQUIREMENTS NOT INDICATED ON THESE DRAWINGS.

STANDARD:

CONTRACTOR TO INSTALL A MINIMUM 7" REINFORCED CONCRETE SLAB OVER TANKS. FIBER REINFORCEMENT TO BE USED. PREMIX UNIFORMLY THROUGHOUT CONCRETE. REINFORCEMENT BARS TO BE NO LESS THAN 2" AND NO MORE THAN 4" FROM SURFACE REINFORCE CONCRETE SLAB AROUND MANHOLES WITH (4) #4 REBAR, 60" IN LENGTH. PLACE REBAR 6" FROM SIDES OF BOX.

UNLESS OTHERWISE NOTED ON THESE DRAWINGS:

- CONCRETE - REGULAR WEIGHT HARD ROCK CONCRETE (150 LBS/CU FT)
 - CEMENT - TYPE 1/11, SULFATE RESISTANT
 - AGGREGATES - ASTM C33, (MAXIMUM SIZE 3/4 INCHES)
 - 28 DAY CONCRETE STRENGTH (f'c):
4,000 PSI - SLAB (DESIGN BASED ON 2,000 PSI NO SPECIAL INSPECTION REQUIRED)
 - SLUMP - Y + 1" - 4" MAXIMUM AT POINT OF PLACEMENT
 - SHRINKAGE - 0.05% MAXIMUM
 - ENTRAINED AIR RANGE - 2% TO 4%
- CONCRETE SLAB THICKNESS SHALL BE A MINIMUM OF 7.0 INCHES (UNLESS OTHERWISE NOTED ON THESE DRAWINGS)
CONCRETE SHALL BE NORMAL WEIGHT WITH A MIX OF 1 : 2 1/2 : 3 1/2, WITH A MAXIMUM 7 1/2 GALLONS OF WATER PER SACK.
ADD 1.0 TO 1.5 LB STEALTH FIBER REINFORCING PER CU. YD. CONCRETE.
REINFORCING STEEL FOR TANK SUMP CAGES SHALL BE #4 REBAR.
MAINTAIN CONCRETE IN A MOIST CONDITION FOR AT LEAST 7 DAYS AFTER PLACEMENT.
PLACE CONCRETE DIRECTLY FROM TRUCK INTO FORMS. DO NOT PUMP CONCRETE UNLESS SPECIAL INSPECTION, IN ACCORDANCE WITH CHAPTER 3 OF THE IBC, IS PROVIDED.

SUBMIT MIX DESIGNS, WITH STRENGTH AND SHRINKAGE TEST RESULTS, TO OWNER'S ENGINEER AT LEAST 7 DAYS BEFORE PLACING CONCRETE. CONSOLIDATE CONCRETE IN PLACE USING A MECHANICAL VIBRATOR.
BEFORE PLACING CONCRETE, SECURE REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND OTHER INSERTS IN POSITION TO PREVENT MOVEMENT.

MATERIALS AND WORKMANSHIP SHALL CONFORM TO A.C.I. - 318 (SPECIFICATIONS OF THE DESIGN AND PLACEMENT OF CONCRETE).

CONTRACTOR PERFORMANCE:

THE CONTRACTOR WILL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED BY HIM UNDER THIS CONTRACTOR FOR A PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK OF THIS CONTRACT BY THE OWNER AND THE ENGINEER AND PROVIDE A BOND TO VALIDATE THIS GUARANTEE. ANY DEFECTS DEVELOPING WITHIN THE PERIOD TRACEABLE TO MATERIALS OR WORKMANSHIP PERFORMED HERE UNDER, WILL BE MADE GOOD AT THE EXPENSE OF THE CONTRACTOR NOT THE OWNER OR ENGINEER. THE CONTRACTOR WILL ACCEPT AND FULLY UNDERSTAND THIS PROVISION PRIOR TO CONTRACT BEING AWARDED, AS NO CLAIM FOR EXTRA COMPENSATION WILL BE ALLOWED FOR CORRECTION OF FAULTY WORK OR DEFECTIVE MATERIALS. ANYTIME DURING THE CONSTRUCTION PERIOD, THE OWNERS REPRESENTATIVES AND THE ENGINEER RETAIN THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REINSTALL ANY EQUIPMENT OR MATERIALS NOT FOLLOWING THE STANDARDS f,s PRESENTED HEREIN OR ON THE DRAWINGS WITHOUT COST TO THE OWNER OR ENGINEER.

CONTRACTOR WILL PROVIDE PROOF OF PERFORMANCE BOND WITH SHOP DRAWINGS

PROVIDE 3 SETS OF SHOP DRAWINGS &: SAMPLES FOR ALL EQUIPMENT, PRIOR TO ORDERING AND IN A TIMELY MANNER (BY THE ENGINEER) SO NOT TO DELAY WORK, TO THE ENGINEER FOR APPROVAL. (CONDUIT, SWITCHES, CONDUCTORS, ECT.) WHERE SUBSTITUTIONS ARE MADE. CONTRACTOR WILL INCLUDE COMPARISON DATA & SAMPLES FOR BOTH THE SUBSTITUTE AND SPECIFIED ITEMS FOR REFERENCE PURPOSES. CONTRACTOR WILL PROVIDE LETTER TO ENGINEER CONFIRMING ALL EQUIPMENT AND TERMINATIONS ARE PROPERLY TORQUE - SIGNED BY LICENSED CONTRACTOR.

CONTRACTOR WILL PROVIDE ACCURATE AND COMPLETE "AS BUILT" DRAWINGS TO OWNER AND ENGINEER AT TIME OF OWNER ACCEPTANCE. ALL "AS BUILT" DRAWINGS TO BE 4 SETS OF "BLUELINES" OR PHOTO COPY PRINTS 24" X 36" AND IWO SETS (OWNER/ENGINEER) ON MAGNETIC MEDIA & AUTOCAD 2026 (BY AUTODESK) COMPATIBLE. FAILURE TO DO SO WILL CONSTITUTE FORFEITURE OF ALL PAYMENTS DUE AND HOURLY RATES OR \$99.00/HOUR/MAN MIN. TO ENGINEER BY CONTRACTOR FOR "AS BUILT" DEVELOPMENT.

MANHOLE CROWNS:

ALL MANHOLE OPENINGS ON THE TANK SLAB SHALL BE INSTALLED WITH A 1- 1/2" CROWN (1" RISE OVER 12"RUN) OF CONCRETE TO PREVENT WATER INTRUSION INTO THE MANHOLE. THE OWNER'S ENGINEER. WILL BE REQUIRED TO SIGN OFF ON THIS ITEM ON THE TANK INSTALLATION CHECKLIST.

PRODUCT IDENTIFICATION MARKINGS:

CONTRACTOR TO INSTALL PRODUCT IDENTIFICATION TAGS AT ALL MANHOLE OPENING PER SITE SPECIFIC DETAIL DRAWINGS. CALIFORNIA VARIANT: CONTRACTOR TO THICKEN CONCRETE SLAB AT DISPENSER SUMPS AND TANK FILL AND TURBINE SUMPS SUCH THAT THE BOTTOM OF CONCRETE IS BELOW THE TOP OF THE TERMINATION OF THE SECONDARY CONTAINMENT OF THE SUMPS PER AB-2481 REQUIREMENTS.

(18) TESTING:

CONTRACTOR SHALL COMPLETE ALL TESTING ACCORDING TO MANUFACTURER'S INSTRUCTIONS FOR TANKS AND PIPING AND PER INDUSTRY RECOMMENDED PRACTICES (API & PEI). CONTRACTOR SHALL COMPLETE ALL WARRANTY VALIDATION TESTING AND PROVIDE DOCUMENTATION TO OWNER'S REPRESENTATIVE OR HIS AGENT.

ISOLATE THE PRODUCT TANKS AND DISPENSERS DURING PRESSURE TESTING OF LINES IN ORDER TO PREVENT DAMAGE. THE DESIGN, ASSEMBLY, AND TESTING OF THE PIPING SYSTEM SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTION OF ANSI-B31, AMERICAN NATIONAL STANDARD CODE FOR PRESSURE PIPING, NFPA 30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, AND AMERICAN PETROLEUM INSTITUTES RECOMMENDED PRACTICE 1615.

DURING CONSTRUCTION, BEFORE BACK FILLING, PIPING SHOULD BE ISOLATED FROM THE TANKS AND SUBJECTED TO A PIPE TIGHTNESS TEST. OTHER TESTING METHODS MAY ALSO BE ACCEPTABLE IF APPROVED BY THE AUTHORITY HAVING JURISDICTION. A CONSTRUCTION PIPE TEST IS CONDUCTED AS FOLLOWS,

A. THE PRODUCT PIPING TO BE TESTED IS ISOLATED AND PRESSURIZED WITH COMPRESSED AIR TO 150 PERCENT OF THE MAXIMUM SYSTEM OPERATING PRESSURE (OR A MINIMUM OF 50 POUNDS PER SQUARE INCH GAUGE; MAXIMUM AS RECOMMENDED BY COMPONENT MANUFACTURER) FOR AT LEAST 30 MINUTES AND NOT MORE THAN 1 HOUR.

B. ALL PIPING SURFACES INCLUDING VALVES, FITTINGS, JOINTS, AND SO FORTH ARE WETTED WITH A SOAP SOLUTION AND INSPECTED FOR BUBBLES.

C. LEAKS, AS INDICATED BY BUBBLES, ARE REPAIRED OR REPLACED, AND THE PIPING RE-TESTED AS NECESSARY.

D. THE INNER PIPE WALLS SHALL BE TESTED FOR TIGHTNESS BEFORE CLOSING THE OUTER PIPE. THE OUTER PIPE MUST BE TESTED AT A 5 POUNDS PER SQUARE INCH GAUGE MAXIMUM" BEFORE BACKFILLING. CARE SHOULD BE TAKEN TO PREVENT OVER PRESSURIZATION OF THE INTERSTICE. IT IS IMPORTANT THAT THE MANUFACTURE INSTRUCTIONS BE FOLLOWED. REPEAT BOTH TESTS AFTER BACKFILLING.

WHEN THE PIPING IS INSTALLED AND OPERATIONAL, A HYDROSTATIC TEST OF THE PIPING, AS SPECIFIED IN NFPA 329, MAY BE REQUIRED BY CODES.

CAUTION: EXTREME CARE SHOULD BE EXERCISED IN CONDUCTING PIPE TIGHTNESS TEST. PRESSURIZED PIPING IS POTENTIALLY DANGEROUS BECAUSE OF THE POSSIBILITY OF VIOLENT RUPTURE. THIS TEST SHOULD BE CONDUCTED WITH MINIMUM EXPOSURE OF PERSONNEL AND WITHOUT MOVING OR DISTURBING THE PIPING BEING TESTED. WHEN THE TEST IS COMPLETED, THE PIPING PRESSURE CAN BE REDUCED OR RELEASED COMPLETELY FOR THE REMAINDER OF CONSTRUCTION. REFER TO THE PIPING MANUFACTURER'S RECOMMENDATIONS.

N.O.V. PIPING SHALL BE TESTED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

VAPOR RECOVER PIPING MUST PASS ALL CARB BLOCKAGE TESTING RELATIVE TO TIGHTNESS, PRESSURE DECAY, & BLOCKAGE RATES. A/L TESTING IS REQUIRED FOR "ASSISTED" STAGE II SYSTEM (IF INSTALLED). NOTIFY THE OWNERS ENGINEER TO COORDINATE.

CONTAINMENT SUMP TESTING:

ALL TANK SUMPS AND UNDER DISPENSER CONTAINMENT SUMPS SHALL BE HYDROSTATICALLY TESTED (LAKE TEST) WITH STANDING WATER ABOVE THE LEVEL OF THE HIGHEST PIPE OR CONDUIT PENETRATION FOR A PERIOD OF 24 HOURS AFTER ALL WORK IS COMPLETED TO INSURE THAT THE SUMPS ARE WATERTIGHT OR CERTIFIED USING SUMP MANUFACTURER'S APPROVED TEST PROCEDURE TO INSURE THAT SUMPS ARE WATERTIGHT PER UST REGULATIONS. THE OWNER'S ENGINEER MUST SIGN OFF ON THIS TESTING ON THE TANK INSTALLATION CHECKLIST.

CALIFORNIA VARIANT:
ALL DOUBLE WALL SUMPS SHALL BE BRINE FILLED AND INSPECTED FOR TIGHTNESS THROUGHOUT THE INSTALLATION PROCESS ONCE SUMPS HAVE BEEN FILLED WITH BRINE SOLUTION.

FINAL SYSTEM TESTING:

AFTER COMPLETE INSTALLATION OF THE ENTIRE FUEL SYSTEM AND ALL PAVING, THE OWNER'S REPRESENTATIVE OR HIS AGENT, SHALL ARRANGE FOR A PRECISION TANK AND LINE TEST TO BE PERFORMED ON THE COMPLETE SYSTEM. SUCCESSFUL COMPLETION OF THIS TEST WILL BE REQUIRED FOR FINAL APPROVAL. THIS TEST SHALL ENSURE THAT ALL NEW TANK & PIPING SHALL MEET ALL FEDERAL, STATE, & LOCAL REQUIREMENTS FOR TIGHTNESS INTEGRITY. PRIOR TO START-UP OF SYSTEM. OPERATIONALLY TEST ALL OTHER EQUIPMENT, INCLUDING IMPACT (SHEAR) VALVES, LINK LEAK DETECTORS, DETECTOR ALARMS, AND EMERGENCY SHUTDOWN SWITCHES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL PROVIDE (3) COPIES OF ALL CERTIFICATIONS & TEST RESULTS TO OWNER'S REPRESENTATIVE OR HIS AGENT.

TANK SYSTEM TEST METHOD CALIFORNIA ONLY AB-2481,
BEFORE THE UNDERGROUND STORAGE TANK IS PLACED INTO USE, THE UNDERGROUND STORAGE TANK SHALL BE TESTED AFTER INSTALLATION USING ONE OF THE FOLLOWING METHODS TO DEMONSTRATE THAT THE TANK IS PRODUCT TIGHT:

- ENHANCED LEAK DETECTION (ELD) BY TRACER CORPORATION.
- AN INERT GAS PRESSURE TEST THAT HAS BEEN CERTIFIED BY A THIRD PARTY AND APPROVED BY THE BOARD.
- A TEST METHOD DEEMED EQUIVALENT TO ENHANCED LEAK DETECTION OR AN INERT GAS PRESSURE TEST BY THE BOARD IN REGULATIONS ADOPTED PURSUANT TO THE APPLICABLE CHAPTER IN THE CODE. AN UNDERGROUND STORAGE TANK INSTALLED AND TESTED IN ACCORDANCE WITH THIS SECTION IS EXEMPT FROM THE REQUIREMENTS OF SECTION 25292.5.

TANK ELECTRICAL SPECIFICATIONS:

GENERAL:
ALL MATERIALS AND WORKMANSHIP WILL CONFORM TO THE MOST RECENT EDITIONS OF THE NATIONAL ELECTRICAL CODE, N.E.T.A, 8.1.C.S.I., U.B.C. & NFPA AS REQUIRED BY THE ENGINEER, LOCAL AND STATE CODES AND ORDINANCES, AMERICANS WITH DISABILITIES ACT, E.P.A., AND UTILITY COMPANY REQUIREMENTS.

THE CONTRACTOR WILL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID OR WORK. NO ALLOWANCES WILL BE MADE AFTER THE BID FOR EXISTING CONDITIONS OR THE CONTRACTORS FAILURE TO VERIFY EXISTING CONDITIONS.

FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS HEREIN - AS NOTED OR IMPLIED - NOT LIMITED TO WHAT IS SHOWN.
ALL DRAWINGS ARE SCHEMATIC IN NATURE AND ALL APPURTENANCES NOT INDICATED TO MAKE A WORKING SYSTEM MUST BE INCLUDED IN CONTRACTOR'S BID.

IF THERE APPEARS TO BE ANY ITEMS IN CONFLICT WITH THE DRAWINGS INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE ENGINEER. IF THE CONTRACTOR FAILS TO CLARIFY ANY QUESTIONS OR INCONSISTENCY, THEY ACCEPT RESPONSIBILITY TO CORRECT AT THEIR COST ANY SUCH ITEM SO AS TO INTENT AS DEFINED BY ENGINEER.

UTILITIES:
CONTRACTOR WILL SUPPLY INFORMATION AS REQUIRED TO ALL SERVING UTILITIES IN A TIMELY MANNER TO PROVIDE SERVICE REQUIRED.

RSG FITTINGS & CONDUIT:

RGS FITTINGS MUST BE STEEL COMPRESSION TYPE; EACH WITH CODE SIZED COPPER BOND WIRE. MINIMUM CONDUIT 1" C. EXCEPT AS NOTED. ALL WORK WILL BE IN CONDUIT; COMPLETED SYSTEM REAMED, AND SWABBED PRIOR TO CONDUCTOR INSTALL.
ALL CONDUITS TO BE CONCEALED EXCEPT TO SURFACE MOUNTED PANELS TIE WIRE, PERFORATED STRAPS, OR OTHER PIPING OR CONDUIT ARE NOT ACCEPTABLE SUPPORTS. NO TIE WIRE WILL BE ALLOWED ON PROJECT.

CALIFORNIA VARIANT - THE LAST 2 FEET (MINIMUM) OF ALL CONDUITS THAT ARE ROUTED TO AND PENETRATE TANK SUMPS, DISPENSER SUMPS AND VENT TRANSITION SUMPS SHALL BE PVC COATED RIGID STEEL GALVANIZED WHERE PENETRATIONS TO THE BRINE FILLED SUMPS ARE MADE. ROBRROY CONDUIT MUST BE USED WITH THE BRAVO PENETRATION FITTING - NO SUBSTITUTE PERMITTED.

CONDUCTORS:

CONDUCTORS TO BE 600V., COPPER (98%- CONDUCTIVITY). BRANCH CIRCUITS TO HAVE THAN/THAN GAS & OIL RESISTANT INSULATION. CONDUCTORS WILL BE STRANDED, HYDRAULIC CRIMP ALL CONNECTIONS. CONDUCTOR INSULATION WILL BE CONTINUOUSLY COLOR COATED. ALL GROUNDING/BUILDING CONDUCTORS WILL BE MULTI-CONDUCTOR TYPE (U.L. LABELED - ROPE STRAND BUILDING WIRE CLASS 'M') BARE OR INSULATED AS NOTED OR REQUIRED.

MINIMUM LINE VOLTAGE WIRE SIZE IS #12 AWG (STRANDED) FOR LINE VOLTAGE WIRING DEVICES TO BE SPECIFICATION GRADE, "MINIMUM 20 AMPS FOR RECEPTACLES. HUBBELL OR ENGINEER APPROVED. ALL SPECIAL RECEPTACLES AND GROUND FAULT PROTECTED DEVICES MUST BE PERMANENTLY MARKED WITH ENGRAVED COVER PLATES.

FILL RISER GROUNDING:

ALL RISERS IN THE FILL SUMP SHALL BE GROUNDED AND BONDED.
INSTALL 1/2" x 10'-0" LONG CONTINUOUS COPPER CLAD GROUND ROD IN NATIVE SOIL FOR TANK SYSTEM GROUNDING. PROVIDE MANHOLE ACCESS TO GROUND ROD AND COPPER GROUND WIRE, SEE DETAILS ON SHEET G.O.7

EMERGENCY SHUTDOWN:

ENSURE THAT THE E-STOP DISCONNECTS THE HOT AND NEUTRAL WIRES TO THE DISPENSERS
ENSURE THAT THE E-STOP DISCONNECTS THE HOT AND NEUTRAL WIRES TO THE TURBINES
ENSURE THAT THE TURBINE PUMPS ARE ISOLATED TO AVOID FEEDBACK VOLTAGE
ENSURE THAT THE E-STOP DISCONNECTS THE LOW VOLTAGE WIRES TO THE DISPENSER (I.E. DATA, INTERCOM, MEDIA)
ENSURE THAT THE TURBINE AND DISPENSER BREAKERS ARE CLEARLY IDENTIFIED / LABELED
ENSURE THAT EACH DISPENSER HAS ITS OWN DEDICATED CIRCUIT
ENSURE THAT EACH PUMP HAS ITS OWN DEDICATED CIRCUIT
ENSURE THAT THE DISPENSING EQUIPMENT IS GROUNDED PER NEC
ENSURE THAT ALL OF THE DISPENSING EQUIPMENT MEETS NEC LOCK OUT/TAG OUT CODES.

12

RevNo

Revision note

VEEDER ROOT CARBON CANISTER VAPOR POLISHER

COMPLIANCE AND INSTALLATION NOTES

THESE NOTES ARE APPLICABLE TO NEW AND RETROFIT INSTALLATIONS

Location of Vapor Processing Equipment (CA Fire Code):

CFC 2010 §2206.7.9.2.2 Location

Vapor-processing equipment shall be located at or above grade. Sources of ignition must be located no less than 50 feet (15,240 mm) from fuel-transfer areas and no less than 18 inches (457.2 mm) above tank fill openings and the tops of dispenser islands. Vapor-processing units must be located at least 10 feet (3,048 mm) from the nearest building or property line of a property that may be developed.

Exception: Where the required distances to buildings, property lines, or fuel-transfer areas cannot be met, protective measures shall be provided to shield the equipment from fire exposure. Acceptable protection methods include:

Approved protective enclosures extending at least 18 inches (457.2 mm) above the equipment, constructed of fire-resistant or non-combustible materials, or
Fire protection through an approved water-spray system. Vapor-processing equipment must be located a minimum of 20 feet (6,096 mm) from dispensing devices. The equipment should be protected from physical damage using guardrails, curbs, protective enclosures, or fencing. When approved protective enclosures are used, appropriate ventilation must be provided to prevent the accumulation of flammable vapors.

If a downslope exists toward the vapor-processing unit from a fuel-transfer area, the chief is authorized to require additional separation by distance and height.

CFC 2010 §2206.7.9.2.3 Installation

Vapor-processing units must be securely mounted on concrete, masonry, or structural steel supports on non-combustible foundations.

the installation of vapor-processing equipment on building roofs or canopy structures. Refer to alternate mounting details for existing sites where vent risers are mounted on roofs.

Existing Conditions:

The contractor is responsible for determining existing site conditions and ensuring compliance with local ordinances and current California Building Codes.

Applicable Codes:

All work must comply with the latest edition of the California Building Code and referenced standards.

Plans and Permits:

The contractor must obtain all necessary encroachment permits and ensure approved plans are in place before beginning construction.

Utility Locations:

The contractor must notify Underground Service Alert (U.S.A.) 48 hours in advance of any excavation work by calling the toll-free number (800) 227-2600. Excavation is defined as being 18 inches or more in depth below the existing surface.

Additional Installation Notes:

All installations of the Veeder-Root Carbon Canister Vapor Polisher must be reviewed and approved by the related City authority prior to submission to the Authorities Having Jurisdiction (AHJ). Following permit approval, the system must also undergo re-review.

In addition, individual site plans must be reviewed by the Environmental Compliance Specialist (ECS) to verify that there are no sensitive receptors within 1,000 feet of the equipment location.
For existing facilities, the contractor is required to perform a liquid and vapor tightness test on the vent lines before proceeding with the installation of the Veeder Root system. Test results must be reported to the related City .

The vent discharge must be located and directed to ensure that vapors disperse. Vapors should be directed upward and horizontally away from adjacent walls. Vent outlets must be located so they are not trapped by eaves or other obstructions and must be at least 5 feet from building openings. The discharge must not be less than 12 feet above finish grade. Vent installation must comply with NFPA 30 (2012).

Vent risers should stand no less than 3 feet from the outside of the curb.

The contractor is responsible for shoring and protecting existing facilities during installation.

Maintain at least 5 feet of clearance around the carbon canister vapor polisher footprint to grade.

Ball float valves are currently installed as standard practice to prevent the wetting of the vent and Stage II vapor piping. The contractor must confirm the existing installation and replace all ball float valves at existing facilities as necessary.

The contractor must confirm and label all vent stacks with the correct product vent tie-in to avoid product contamination and improper processor tie-in. Confirmation must be provided on the pipe and tank checklist (label maker acceptable). There must be no pockets or liquid traps in any of the connected piping from the Veeder Root Carbon Canister Vapor Polisher to the vent stack tie-in point.

The vent stack rack and risers must be grounded. Tie the ground wire from the vent stacks to the UST system ground.

Before performing maintenance, the test port valve must be vented to the atmosphere.

The Veeder Root system must be leak-tested prior to start-up to avoid leakage to the atmosphere.

Any spent carbon from the canister must be treated as hazardous waste and disposed of properly.

Inspect the Veeder Root Carbon Canister Vapor Polisher for damage prior to start-up or re-commissioning after service.

Electrical Installation Notes:

All electrical installations must comply with NEC/CEC codes for the area in which they are installed. Installations in classified areas are an exception to the normal siting and shall require further review by the related City.

Ensure the Veeder Root Carbon Canister Vapor Polisher is bonded and grounded to the site system and to the site tank grounding system to eliminate the possibility of electrical discharge as an ignition source.

Bonding and Grounding: Bonding and grounding guidelines for construction regarding dispensing equipment must be in place and in accordance with the Petroleum Equipment Institute (PEI) standards.

Additional Installation Notes for Dispensers:

Some dispenser nozzle holsters are not compatible with the current VST design. Consult with the Related Management for a list of dispensers that are not compatible with the design and do not install VST at locations where these dispensers exist.

The pressure sensor located in the dispenser sump closest to the tank farm should preferably be mounted outside the dispenser containment sump or above the highest penetration fitting. During containment sump certification testing, the contractor should remove the pressure switch to avoid possible water damage.

The pressure sensor must be installed in a vertical position, with the sensing port pointing down. When required by the authority having jurisdiction, the connection to the vapor line must be below the shear valve.

The 3-way valve test port on the pressure sensor in the dispenser closest to the tank farm should be "car sealed" with labels indicating the correct operating position. The valve should remain closed during normal operation to avoid false pressure readings from the ISO stoneware.

The dispensers must be balance-type dispensers.

The dispensers must be CARB-approved unhorse types, unless otherwise permitted by the authority having jurisdiction.

There shall be no flow meters allowed for the VST system.

Follow PEI RP-400 for electrical continuity of hanging hardware.

The VST hanging hardware is capable of supporting longer hose lengths. The maximum hose length when connected is limited to 15 feet. Consult with the dispenser manufacturer for extended hose reach design alternatives.

Testing Notes:

Per CARB E.O. VR-204, all existing single-wall vent and vapor piping installations, as well as new double-wall vent and vapor installations, shall undergo the following tests within 60 days after start-up and at least once every 12 months using the following test procedures:

TP-201.3: Determination of 2-inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities (March 17, 1999)
TP-201.4: Dynamic Back Pressure (July 3, 2002) in accordance with the conditions listed in Item 1 of the vapor collection section of Exhibit 2 of the VR-204 Executive Order.
. procedures also require the execution of Methodology 6 from Exhibit 4 of the VR-204 Executive Order, required items for conducting TP-201.3; Exhibit 5 (Liquid Removal Test Procedure); Exhibit 6 (Hydrocarbon Sensor Verification Test); Exhibit B (Vapor Pressure Sensor Verification Test); Exhibit 9 (Determination of VST (Vapor Separator Tank) Processor Activation Pressure); and Exhibit 11 (Operability Test Procedure for the Veeder-Root ISD Flow Meter).
Shorter time periods may be specified according to local district requirements. Testing notifications and submittal of test results shall follow local district requirements and policies established by that district. Alternative test procedures, including the most recent versions of the above test procedures, may be used if determined by the ARB Executive Officer or delegate in writing to yield equivalent results.

It is further ordered that the following requirements are made a condition of certification. The owner or operator of the VST Phase II EVR system, including Veeder-Root ISO, shall conduct and pass the following tests no later than 60 days after startup using the following test procedure: Exhibit 10 (Nozzle Bag Test Procedure). Notification of testing and submission of test results shall follow local district requirements and policies established by the district. Alternative test procedures, including the most recent versions of the above test procedures, may be used if determined by the ARB Executive Officer or delegate in writing to yield equivalent results.

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ARCHITECT OF RECORD :

BOULEVARD

Construction

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BUSINESS NAME:

GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:

121-280-17-00

REVISIONS:

BY:

DATE:

DESCRIPTION

REVISION

08-28-25

CURRENT ISSUE DATE:

08/28/2025

ISSUED FOR :

CONTROL NO*:

DRAWN BY:

BOULEVARD

CHECKED:

F C

APPROVED:

SHEET TITLE

VEEDER - ROOT
CARBON CANISTER
VAPOR POLISHER

SHEET #

F-3.0

Quote Presented By:

Andrew Rotter
(916) 330-0700
arotter@shields-harper.com
2699 Del Monte St
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QUOTATION

Quote Number 1469112
Quote Date 8/22/2025
Customer ID 3042614
Quote Expires On: 09/21/2025

2699 Del Monte St
West Sacramento, CA 95691-3809 US

2699 Del Monte St
West Sacramento, CA 95691-3809 US

Stage I AND II UST Tank – UL Listed Equipment & Materials

Job Name: DW UST Tank Upgrade, (2) Disp., Rev#3 - Boulevard	
Bill To: Little River Market 7746 CA-1 Little River, CA 95456	Ship To: Little River Market 7746 CA-1 Little River, CA 95456
Quantity	Description
UNDERGROUND TANK	
1.00	MO-10000 GALLON Modern Welding Co of CA, Inc. 10,000 gallon fuel storage tank (1) 10,000 GALLON GLASTEEL II JACKETED U.L 1746 LISTED UNDERGROUND STORAGE TANK WITH TWO COMPARTMENTS (6500K - REGULAR UNLEADED / 3500K PREMIUM UNLEADED), TWO 24" MANWAYS. Tank Dimensions: 8'1" Diameter x 27'1" Length
1.00	MO-ANCHORING Modern Welding Co of CA, Inc. Tank Anchoring System
1.00	MO-FREIGHT Modern Welding Co of CA, Inc. Transporting tank - not offloaded FREIGHT TO LITTLE RIVER, CA
WESTERN TANK SUMPS	
4.00	WF-DWOCT-32-M Western Fiberglass, Inc. DW split sump, bottom half only, 1-pc, 32" OVH (28" body Modern Welding spec)
2.00	WF-DW42SPL-3632C-NL Western Fiberglass, Inc. DW split sump, top half only, 42" x 30"
2.00	WF-DW42SPL-3637C-TS Western Fiberglass, Inc. DW split sump, top half only, 42" x 30" w/6" x 37" centered redu, twist seal lid
4.00	WF-AC8004 Western Fiberglass, Inc. Bond kit - bulk (3 gallons resin, 8 oz. catalyst, 1 roll mat, 1 gallon putty)
4.00	WF-PI0095 Western Fiberglass, Inc. Co-flow hydrostatic monitoring system f/sumps
6.00	WF-PI0001 Western Fiberglass, Inc. Co-flow hydrostatic monitoring liquid, 5 gallons
TANK SUMP INSTALLATION	
TANK TRIM	
2.00	OP-PK2-42RTMP OPW Retail Fueling 42" gas kit with 36" shroud Includes: 6571EVRB-164042RT052, MPWS-36, 61SALP-1020-EVR, 61VSA-1020-EVR, 634TT-7085-EVR, 1711T-7085-EVR, VPN4X7, H12806M, FSA-400-S, 61JSK-44CB, 6511-RB16

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Quantity	Description
2.00	OP-FSA-400S OPW Retail Fueling Face seal adaptor - adds 1-3/4 height cast iron base
2.00	OP-7150-410C OPW Retail Fueling 10' bury, 10' tank vapor-light overfill valve
1.00	OP-233-4422 OPW Retail Fueling 4 x 2 x 2 extractor housing
1.00	OP-233-4432 OPW Retail Fueling 4 x 3 x 2 extractor housing
2.00	OP-233VP-6046 OPW Retail Fueling Extractor test plug
2.00	HM-FSQM180200-K Hose Master FireShield 2" x 18" welded hex Male x quickclamp Male flex connector
1.00	HM-FSQM180300-K Hose Master FireShield 3" x 18" welded hex Male x quickclamp Male flex connector
1.00	SE-U-TC-3 Unleaded Regular tank collar
1.00	SE-U-TC-4 Premium Unleaded tank collar
2.00	SE-U-TC-21 Vapor recovery tank collar ID marker
2.00	MB-305XP2A200AKEVR Morrison Bros. Co. 2" EVR approved tank monitor cap/adaptor CC/1/2hole
VENT BOX	
1.00	WF-DWVV-243029 Western Fiberglass, Inc. DW vapor/vent transition sump - 24x30x29
1.00	WF-VVR-2430 Western Fiberglass, Inc. Vapor vent box rack system f/24x30x29
1.00	WF-PI0001 Western Fiberglass, Inc. Co-flow hydrostatic monitoring liquid, 5 gallons
1.00	WF-PI0095 Western Fiberglass, Inc. Co-flow hydrostatic monitoring system f/sumps
2.00	BR-F-32A-T-F S. Bravo Systems, Inc. 3x2" FRP, adjustable full-body taper by slip; dual test ports and single injection port, REQUIRES (2) EP100 SOLD SEPARATELY
4.00	BR-EP100 S. Bravo Systems, Inc. Bravo epoxy (6 oz epoxy 1 oz catalyst) in poly can with yellow colorant - includes (2) pairs nitrile gloves, (1) 1" chip brush and (1) stir stick

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Quantity	Description
2.00	HM-FSQF180200-K Hose Master FireShield 2" x 18" 2" welded Female x quickclamp Male flex connector
UNDER DISPENSER CONTAINMENT	
2.00	WF-MISC Western Fiberglass, Inc. Miscellaneous item
	DWCC1840D3 DOUBLE WALL - DOUBLE SIDED, 30" DEEP, 3/PROD, FOR OVATION
2.00	WF-PI0095 Western Fiberglass, Inc. Co-flow hydrostatic monitoring system f/sumps
2.00	WF-PI0001 Western Fiberglass, Inc. Co-flow hydrostatic monitoring liquid, 5 gallons
4.00	OP-108HMP-6830 OPW Retail Fueling 1-1/2 male top double poppet emergency valve
2.00	OP-60VSP-1001 OPW Retail Fueling 1 x 1-1/2 vapor line shear valve poppeted
4.00	SE-SP-112 Vaporless Sfty Port f/1-1/2-16UN thrd (400 series)
6.00	HM-FSQM180150-K Hose Master FireShield 1.5" x 18" welded hex Male x quickclamp Male flex connector
6.00	BR-F-32A-T-F S. Bravo Systems, Inc. 3x2" FRP, adjustable full-body taper by slip; dual test ports and single injection port, REQUIRES (2) EP100 SOLD SEPARATELY
12.00	BR-EP100 S. Bravo Systems, Inc. Bravo epoxy (6 oz epoxy 1 oz catalyst) in poly can with yellow colorant - includes (2) pairs nitrile gloves, (1) 1" chip brush and (1) stir stick
VEEDER-ROOT	
1.00	VR1-861290-002 Veeder Root Carbon canister for 2 vent pipe
1.00	VR1-330020-660 Veeder Root Canister weather kit rain shield
1.00	VR1-330020-630 Veeder Root Pressure Sensor Installation kit, Vapor Vent Stack
1.00	VR1-TLS-450PLUSKIT Veeder Root TLS-450 Plus Kit Console Package <i>Item Note</i> KIT INCLUDES: Qty 1 - 0860091-302 TLS-450PLUS Touch Screen Console Qty 1 - 0333545-001 TLS-450 Plus Application Software Qty 1 - 0332812-001 TLS-450 Plus Universal Sensor Module (installed) Additional information required when submitting to Veeder-Root.

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Quantity	Description
1.00	VR1-332812-001 Veeder Root TLS-450PLUS universal sensor module interface for probes, sensors, and DPLLD
1.00	VR1-332813-001 Veeder Root TLS-450 universal input/output interface module / UIOM has 5 dry contact output relays / 4 low voltage dry contact inputs / 5 high voltage inputs
1.00	VR1-332812-006 Veeder Root USMIATM module group for TLS-450PLUS (for SCVS installations only)
1.00	VR1-332972-029 Veeder Root SCVS software enhancement feature
1.00	VR1-333882-001 Veeder Root 450 Plus PMC Software Feature
2.00	VR1-846396-107 Veeder Root In-tank 0.1 HGP Mag Plus 1 probe 8" tank water detection
2.00	VR1-886100-000 Veeder Root Phase-Two water detector, 5" cable, Gas 4" float
2.00	VR1-312020-952 Morrison Bros. Co. 4" riser cap and ring kit for probe
7.00	VR1-794380-208 Veeder Root Sump sensor w/12" cable
7.00	VR1-794380-304 Veeder Root Single-point mini hydrostatic sensor f/DW sumps
2.00	VR1-859080-001 Veeder Root DPLLD sensor w/o swiftcheck
1.00	VR1-330020-467 Veeder Root 4 vacuum sensor kit f/steel tanks
1.00	VR1-330020-480 Veeder Root 2 vacuum sensor kit f/no tank, 2 pipes sumps
1.00	VR1-332310-003 Veeder Root Vacuum hose 100' length
1.00	VR1-790095-001 Veeder Root Alarm acknowledgement switch
1.00	VR1-790091-001 Veeder Root Overfill alarm
1.00	SE-OVERFILL ALARM SIGN Safeway aluminum .040 vinyl white on red
4.00	VR1-330020-627 Veeder Root Printer paper - 4 pack TLS-450
TURBINES	

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Quantity	Description
2.00	FE-STPAP75-VL2 Franklin Fueling Systems 3/4 HP AP fixed speed STP 88-149" STAINLESS STEEL RISER TO BE SOLD AS A SEPARATE LINE ITEM
2.00	FE-R24-SS Franklin Fueling Systems Riser assy 24" SS - SHIPPED LOOSE
2.00	FE-5800100220-00 Franklin Fueling Systems SPGC-220 Guardian Controller w/4" STP
2.00	FE-STP-DHI Franklin Fueling Systems Dispenser hook isolation f/120V dispenser handle switches, up to eight each
2.00	FEP-400137937 Franklin Fueling Systems Syphon check valve (spare part)
2.00	FEP-400988932 Franklin Fueling Systems Model R check valve f/V-R systems w/o-ring
2.00	SE-100-968 Jomar 2" SS ball valve
2.00	HM-FSQM180200-K Hose Master FireShield 2" x 18" welded hex Male x quickclamp Male flex connector
2.00	EW-A0716-042C Emco Wheaton Retail Corp. Manhole composite 42 w/camlocks
WAYNE DISPENSER	
2.00	WA-R22/2-OVATION2 Wayne Fueling Systems LLC Ovation2 dual product dispenser Non Bld WAYNE OVATION 2 R22/2 FUEL: REGULAR UNLEADED / PREMIUM AX 12 - IX PAY 2 IX PAY SECURE EMV CARD READER, GENS BALANCE VAPOR RECOVERY JUNCTION BOX WAYNE TAP NFC READER DISPENSER VALANCE STAINLESS STEEL SIDE COLUMN TRIM STAINLESS STEEL BEZEL TRIM OVATION PEDESTAL KIT HOSE RETRACTOR FOR BOTH HOSES TWO YEAR PARTS & LABOR WARRANTY
2.00	WA-FREIGHT Wayne Fueling Systems LLC Freight for Ovation and Anthem Dispenser Not offloaded
1.00	WA-WU021907-0001 Wayne Fueling Systems LLC DFS wired connect, access point, 16-port managed mode
2.00	WA-WU021906-0001 Wayne Fueling Systems LLC DFS wired connect, subscriber unit, managed mode

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Quantity	Description
DISPENSER MISC	
4.00	SE-NOZZLE-OP-NORCAL NLA USE SE-NOZZLE OP-CALIFORNIA Nozzle operation decal - Nor Cal - 800-952-5588
2.00	SE-PROP 65 WARNING BREATHING AIR Decal - BREATHING THE AIR PROP 65
1.00	SE-DSTK110-M Installation kit (multi-layer)
4.00	SE-DSWQ201-M Wayne Ovation2 main display multi-layer
4.00	SE-DSWQ203-M Wayne Ovation2 10.4" VGA display multi-layer
2.00	WAP-917141 New Receiptco Opco LLC dba Domtar (Iconex) DPCT RECEIPT THERMAL PAPER WAYNE 12 PACK (also for Gilbarco Encore 500S)
HANGING HARDWARE	
8.00	VS-VSTP-048096 Vapor Systems Technologies 4' whip & 8" curb w/VST breakaway & nzi
8.00	CN-8114 CNI Manufacturing 1-1/2" anti-kink hose clamp f/VST/ Goodyear/Dayco
LOW-VOLTAGE PANEL	
1.00	SE-LVDD-V-4 Low-voltage dispenser disconnect f/4 dispenser application w/CAT5/6 video capabilities
E-STOPS	
2.00	SE-EM01 Powerbox fuel shutdown switch
2.00	SE-EMERGENCY SHUT-OFF SWITCH Aluminum sign 3" x 5" white on red EMERGENCY SHUT-OFF SWITCH
BOLLARDS	
8.00	FX-BGS6084 Franklin Fueling Systems 6 dia Sched 40 steel x 84 long bollard
TANK SUMP ENTRY FITTING(S)	
6.00	BR-F-07S-0-DF S. Bravo Systems, Inc. 3/4" galvanized conduit, DW full body fitting, dual injection ports and tertiary boot seal, flat wall - (2) EP100 EPOXY REQD - SOLD SEPARATELY
8.00	BR-F-32A-T-F S. Bravo Systems, Inc. 3x2" FRP, adjustable full-body taper by slip; dual test ports and single injection port, REQUIRES (2) EP100 SOLD SEPARATELY

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Quote 1469112
Page 6 of 11



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PROJECT ADDRESS:
7746 N HIGHWAY 4, LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel:
121-280-17-00

REVISIONS:		BY:	DATE:
DESCRIPTION	REVISION		
			08-28-25

CURRENT ISSUE DATE:

08/28/2025

ISSUED FOR :

CONTROL NO#:

DRAWN BY: BOULEVARD
CHECKED: F C
APPROVED:

SHEET TITLE

TANK AND PIPING
INSTALLATION STAGE
I EQUIPMENT

SHEET #

F-4.0

2699 Del Monte St
West Sacramento, CA 95691-3809 US



2699 Del Monte St
West Sacramento, CA 95691-3809 US

Stage I AND II UST Tank – UL Listed Equipment & Materials

Quantity	Description		
1.00	BR-F-43A-T-F 4x3" FRP adjustable full-body taper FLAT by slip; dual test ports & single injection port - EPOXY REQ'D - SOLD SEPARATELY	S. Bravo Systems, Inc.	
24.00	BR-EP100 Bravo epoxy (6 oz epoxy 1 oz catalyst) in poly can with yellow colorant - includes (2) pairs nitrile gloves, (1) 1" chip brush and (1) stir stick	S. Bravo Systems, Inc.	
1.00	BR-PS-400 Polysulfide adhesive 400ml (12 oz.) dual cartridge with 3 stator mixing tips required man-gun	S. Bravo Systems, Inc.	
	DISPENSER & P.O.S START UP		
1.00	MIS-LABOR OUTSIDE Outside contracted labor		
	SCOPE OF WORK: INSTALL SINGLE TERMINAL WAYNE BULLOCH POINT OF SALE SYSTEM, STARTUP (2) WAYNE DISPENSERS, START UP VEEDER-ROOT TLS-450		
	BULLOCH POS COMPLETE SYSTEM		
1.00	BT9000A CURRENT DESKTOP CPU WITH SSD DRIVE AND WINDOWS 10 (ENTERPRISE, LOCKED DOWN) PINPAD, RECEIPT PRINTER, 3D BAR CODE SCANNER, CASH DRAWER, CASHIER FACING TOUCH SCREEN, CUSTOMER FACING SCREEN, BACKUP POWER (UPS), MULTI PORT EXPANSION.		
1.00	BULLOCH SERVICES BILLED DIRECTLY BY BULLOCH		
1.00	VF-M149-901-01-R Forecourt Fuel Controller includes (1) SPP CLBG		
1.00	VF-29376-01 RS485 8-channel interface board kit f/Tok/Wayne		
1.00	AVALAN MNSP NETWORK HARDWARE (ROUTER, SWITCH, LTE) INCLUDES CELLULAR BACK UP & 16-PORT MANAGED SWITCH		
1.00	ONE TIME ACTIVATION FEE		
12.00	AVALON SUBSCRIPTION , 1 YEAR \$99.00 A MONTH, AUTORENEWAL		
1.00	ROUTER MOUNTING BRACKET A SECURE BRACKET FOR THE AVALAN 10-PORT ROUTER		
	FIBERGLASS PIPE		
1,000.00	RT-011020-069-2 2" pipe x 25' length tapered ends	Fiber Glass Systems, LP - Red Thread	
1,200.00	RT-011030-069-2 3" pipe x 25' length tapered ends	Fiber Glass Systems, LP - Red Thread	

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2699 Del Monte St
West Sacramento, CA 95691-3809 US

Quantity	Description	
8.00	RT-012030-231-4 3" x 2" reducer bushing slip x slip	Fiber Glass Systems, LP - Red Thread
100.00	AP-60210101 PSX20 adhesive kit - 6 oz	Fiber Glass Systems L.P - Ameron
60.00	RT-002990-033-0 Filler for DS-8069	Fiber Glass Systems, LP - Red Thread
6.00	SE-SS16 Gasola Soft set thread sealant pint can w/brush	

Quantity	Description		
200.00	RT-011040-069-2 4" pipe x 25' length tapered ends	Fiber Glass Systems, LP - Red Thread	
15.00	RT-012020-360-4 2" primary 90 degree elbow	Fiber Glass Systems, LP - Red Thread	
15.00	RT-012030-360-3 3" 90 degree secondary elbow 2 pc	Fiber Glass Systems, LP - Red Thread	
15.00	RT-012020-310-4 2" primary 45 degree elbow	Fiber Glass Systems, LP - Red Thread	
15.00	RT-012030-310-3 3" 45 degree secondary elbow 2 pc	Fiber Glass Systems, LP - Red Thread	
10.00	RT-012020-410-4 2" primary tee	Fiber Glass Systems, LP - Red Thread	
10.00	RT-012030-410-3 3" tee secondary fitting 2 pc	Fiber Glass Systems, LP - Red Thread	
15.00	RT-012020-101-8 2" primary sleeve coupling	Fiber Glass Systems, LP - Red Thread	
15.00	RT-012030-101-3 3" secondary coupling 2 pc	Fiber Glass Systems, LP - Red Thread	
10.00	RT-012020-191-4 2" bell x male threaded adapter fiberglass	Fiber Glass Systems, LP - Red Thread	
10.00	RT-012020-231-4 2" x 1-1/2" female NPT reducer bushing	Fiber Glass Systems, LP - Red Thread	
10.00	RT-012030-231-4 3" x 2" reducer bushing slip x slip	Fiber Glass Systems, LP - Red Thread	
5.00	RT-012030-360-4 3" primary 90 degree elbow	Fiber Glass Systems, LP - Red Thread	
4.00	RT-012030-410-4 3" primary tee fitting	Fiber Glass Systems, LP - Red Thread	
5.00	RT-012030-101-8 3" primary sleeve coupling	Fiber Glass Systems, LP - Red Thread	
5.00	RT-012040-360-3 4" 90 degree secondary elbow 2 pc	Fiber Glass Systems, LP - Red Thread	
5.00	RT-012040-101-3 4" secondary sleeve coupling 2 pc	Fiber Glass Systems, LP - Red Thread	
4.00	RT-012040-410-3 4" secondary tee fitting 2 pc	Fiber Glass Systems, LP - Red Thread	
4.00	RT-012040-238-3 4" x 3" concentric reducer fitting 2-pc secondary (for sump)	Fiber Glass Systems, LP - Red Thread	

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Quote 1469112
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CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DEL GAS LITTLE RIVER MARKET

Assessor's Parcel:
121-280-17-00

REVISIONS:	DATE:	DESCRIPTION	BY:
	08-28-25		△

CURRENT ISSUE DATE:

08/28/2025

ISSUED FOR :

CONTROL NO.:

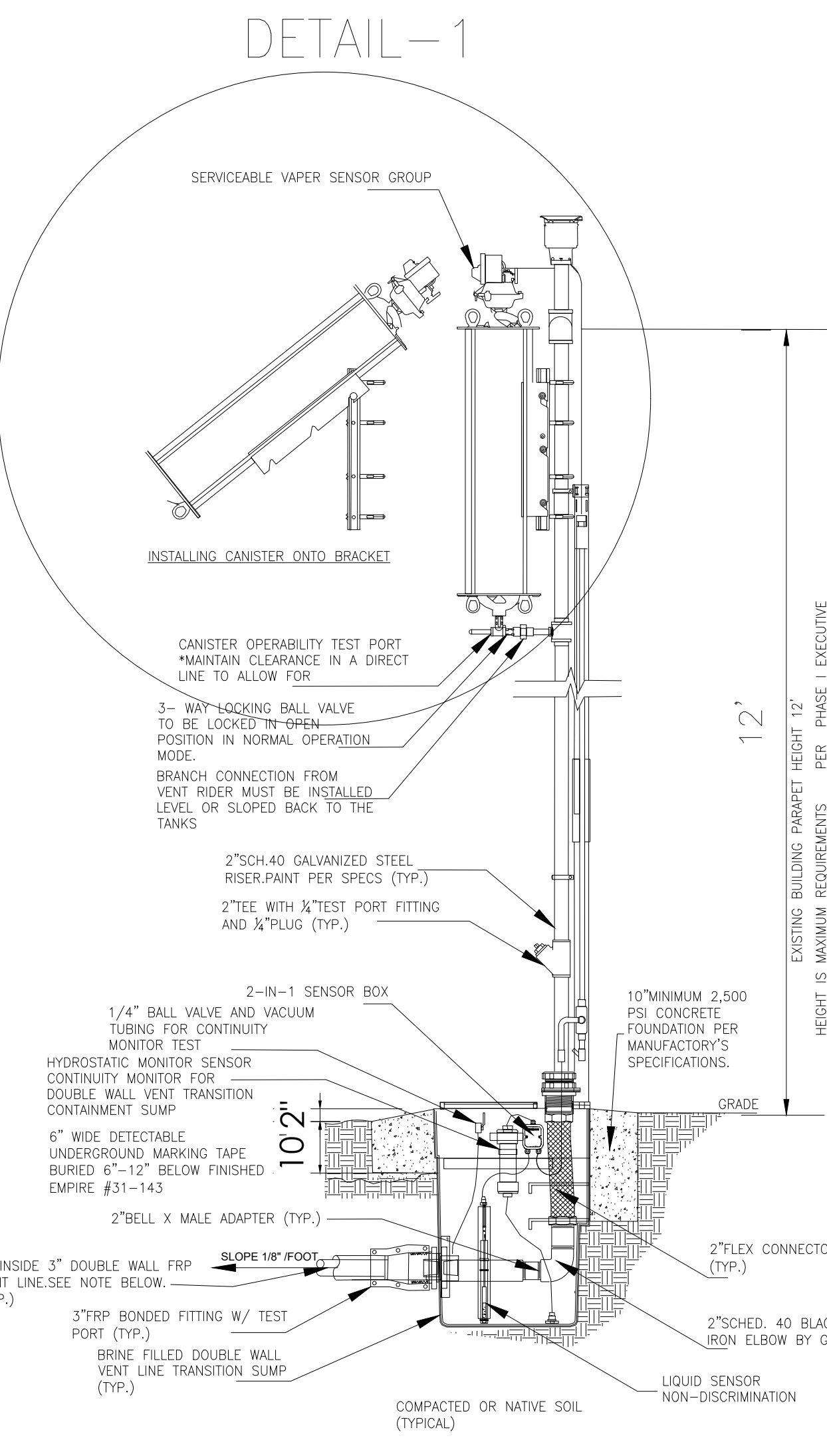
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CHECKED: F C
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SHEET TITLE

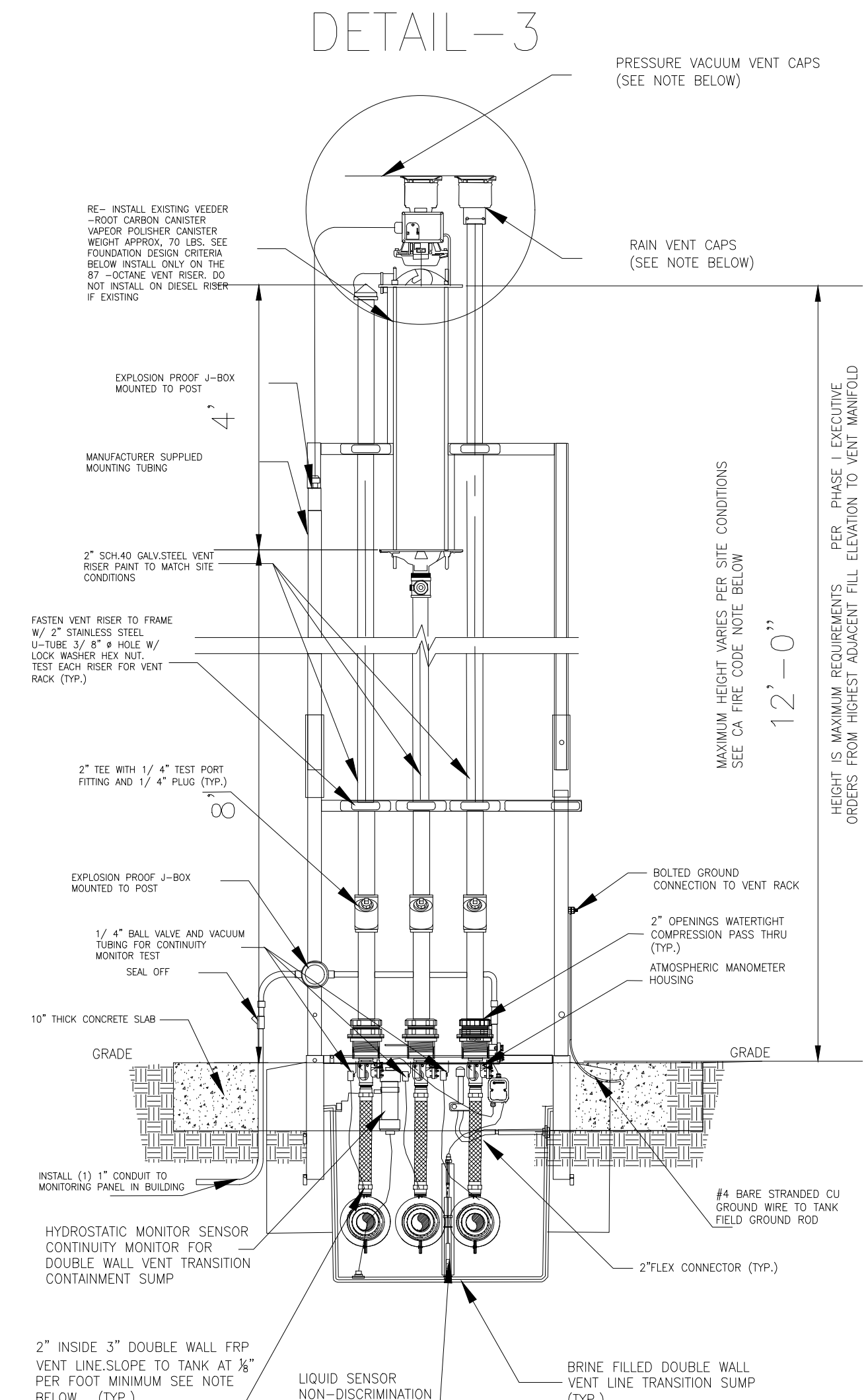
FIBERGLASS PIPING
AND FITTINGS /ALL
AREAS

SHEET #

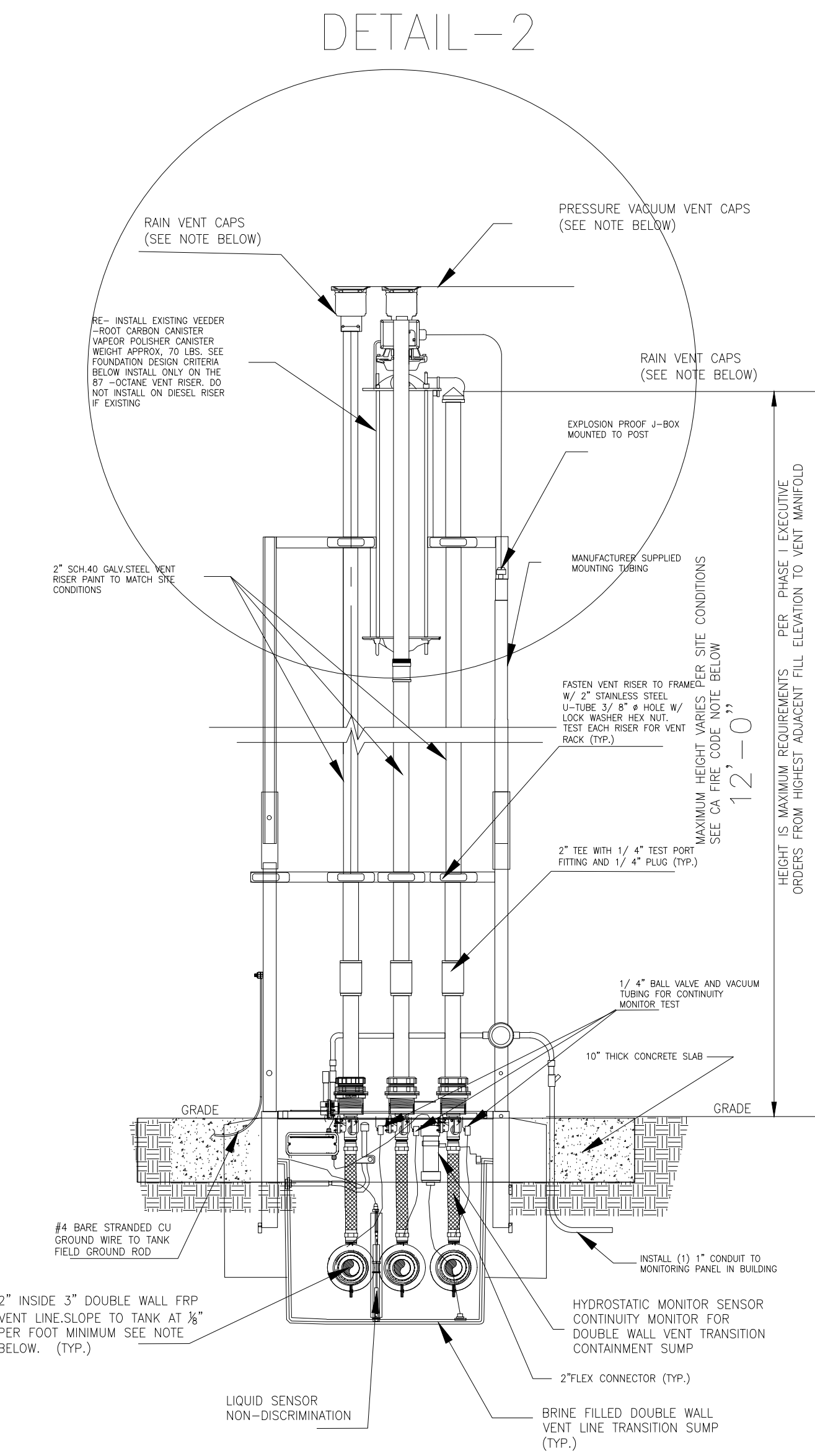
F-5.0



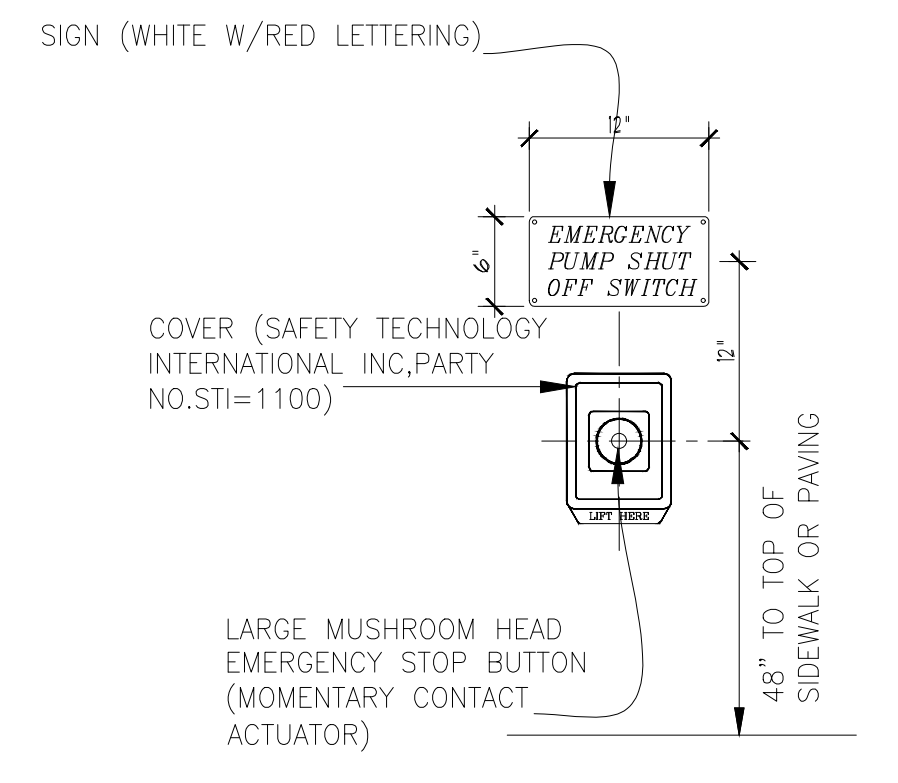
VENT RISER SIDE ELEVATION AND DETAILS
SCALE: 1/2"-0"=1'-0"



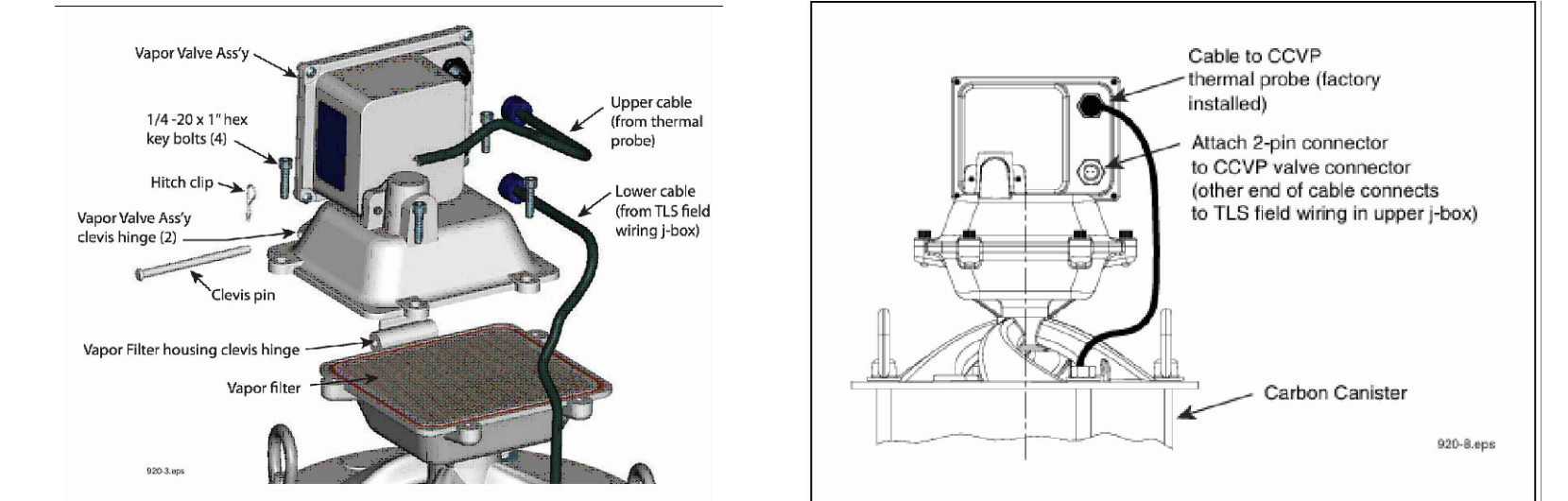
VENT RISER FRONT ELEVATION AND DETAILS
SCALE: 1/2"-0"=1'-0"



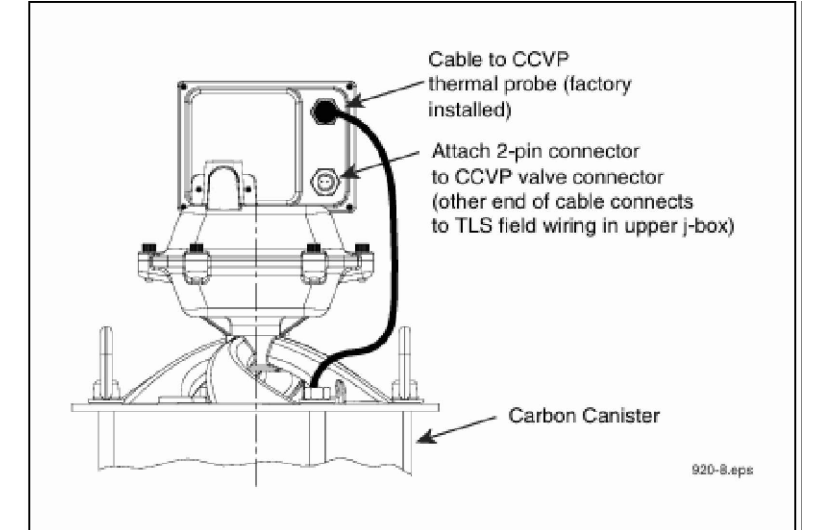
VENT REAR ELEVATION AND DETAILS
SCALE: 1/2"-0"=1'-0"



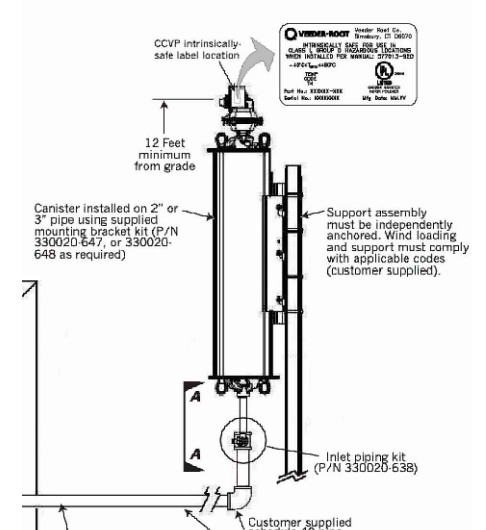
EMERGENCY SHUT OFF SWITCH
SCALE: NTS



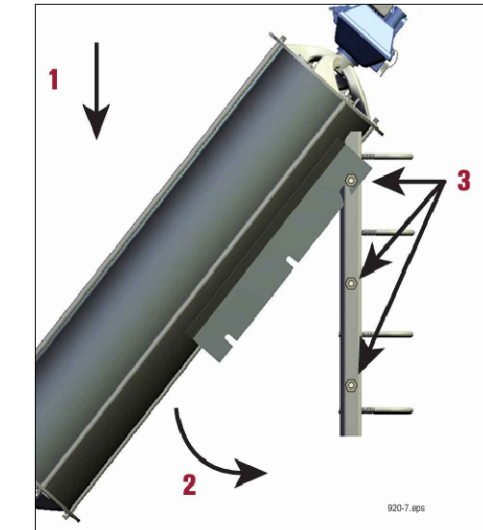
DETAIL-3



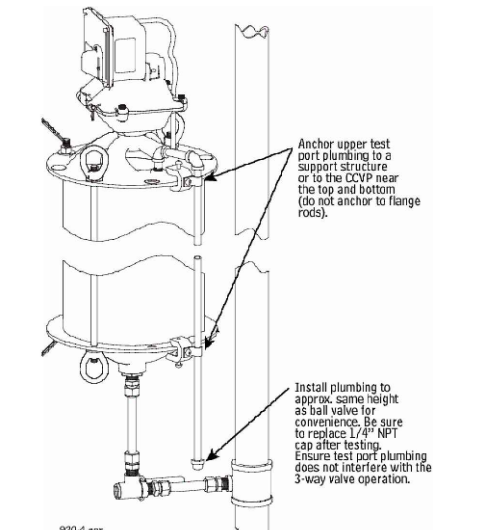
DETAIL-3



DETAIL-2



DETAIL-1



DETAIL-2

VENT RISER TYPICAL DETAILS

THE VENT CONFIGURATION SHOWN IS IN ACCORDING WITH CP-201 THE NUMBER OF VENT CAPS AT ANY ONE SHALL NOT PERMIT AN ADDITIVE LEAK OF MORE THAN .17 CH4 AT 2" OF WATER COLUMN. MAX ALLOWED WITHOUT MANIFOLD IS (3)
THE INSTALLATION OF 2-INCH GALVANIZED VENT RISERS:
VENT PIPE OUTLETS LOCATION AND HEIGHT:
INTERNATIONAL FIRE CODE (IFC) 2018 §5704.2.3.3: VENT PIPE OUTLETS FOR TANKS STORING CLASS I, II, OR III-A LIQUIDS MUST RELEASE VAPORS AT A SAFE POINT OUTSIDE OF BUILDINGS AND BE LOCATED NOT LESS THAN 12 FEET ABOVE THE FINISHED GROUND LEVEL.
VENT RISERS SHOULD STAND NO LESS THAN 3" FROM OUTSIDE EDGE OF CURB THE ACTUAL NUMBER OF VENT RISER DETERMINED BY NUMBER OF UNDERGROUND STORAGE TANKS. THE DIESEL VENT RISER (IF INSTALLED) ISD, SEPARATE.

DESIGN - CRITERIA - PER 2022 CBC			
SEISMIC LOADS			
SITE INFORMATION		IMPORTANCE:1	SITE CLASS=D
BASIC RESISTING SYSTEM: (REF: ASCE 7-05 TABLE 15.4-2)		R=2 C=2 CD=2.5	SDS=1.83
DESIGN BASE SHEAR : 0.92W	(BASE SHEAR EQ. 12.8-2) V=0.92W	(MAX BASE SHEAR EQ. 12.8-2) V=Sd1W/TR/1 V=1.25W	(MIN BASE SHEAR EQ. 12.8-5a6) V=Sd1W/R/1 V=0.25W

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PROJECT ADDRESS:
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CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
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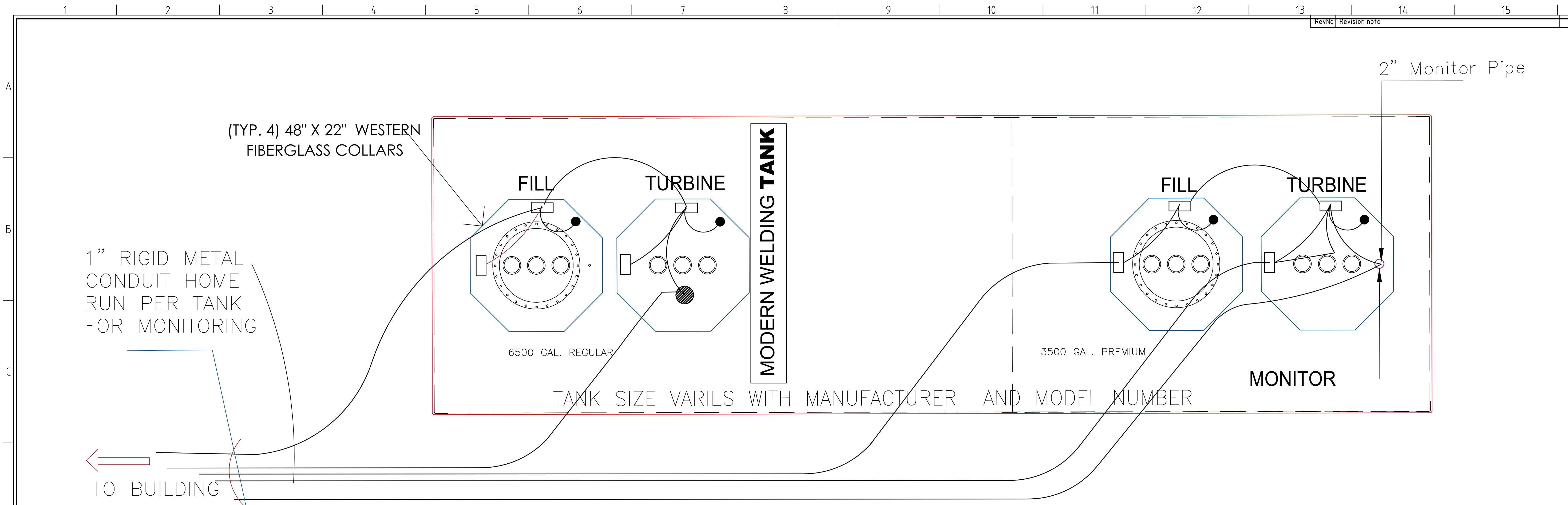
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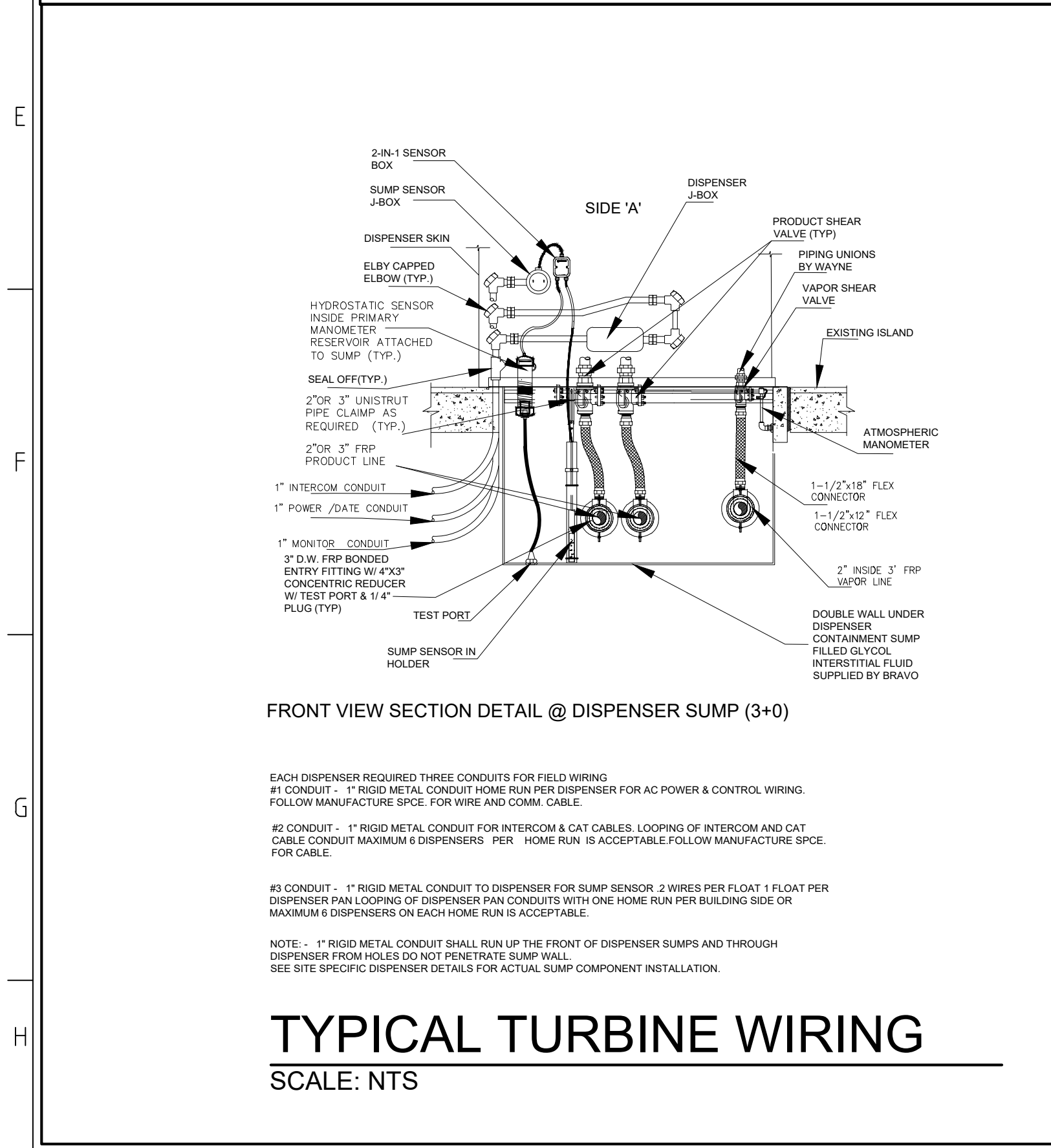
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SHEET TITLE:
VENT STACK, VEEDER - ROOT, VAPOR INSTALLATION DETAILS

SHEET #
F-6.0



TYPICAL CONDUIT LAYOUT AT TANK
SCALE: NTS

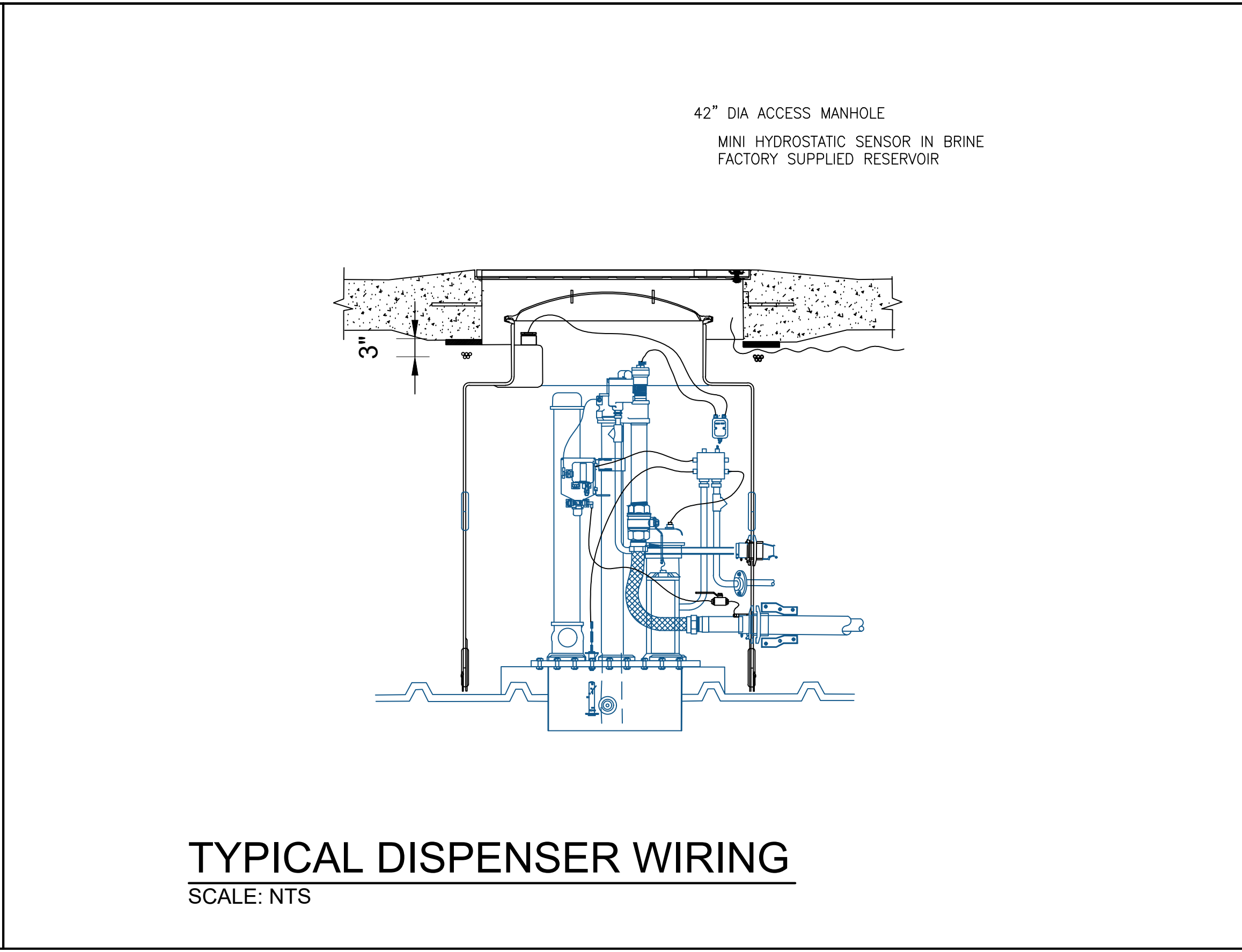


FRONT VIEW SECTION DETAIL @ DISPENSER SUMP (3+0)

EACH DISPENSER REQUIRED THREE CONDUITS FOR FIELD WIRING
#1 CONDUIT - 1" RIGID METAL CONDUIT HOME RUN PER DISPENSER FOR AC POWER & CONTROL WIRING. FOLLOW MANUFACTURE SPCE. FOR WIRE AND COMM. CABLE.
#2 CONDUIT - 1" RIGID METAL CONDUIT FOR INTERCOM & CAT CABLES. LOOPING OF INTERCOM AND CAT CABLE CONDUIT MAXIMUM 6 DISPENSERS PER HOME RUN IS ACCEPTABLE FOLLOW MANUFACTURE SPCE. FOR CABLE.
#3 CONDUIT - 1" RIGID METAL CONDUIT TO DISPENSER FOR SUMP SENSOR 2 WIRES PER FLOAT 1 FLOAT PER DISPENSER PAN LOOPING OF DISPENSER PAN CONDUITS WITH ONE HOME RUN PER BUILDING SIDE OR MAXIMUM 6 DISPENSERS ON EACH HOME RUN IS ACCEPTABLE.

NOTE - 1" RIGID METAL CONDUIT SHALL RUN UP THE FRONT OF DISPENSER SUMPS AND THROUGH DISPENSER FROM HOLES DO NOT PENETRATE SUMP WALL. SEE SITE SPECIFIC DISPENSER DETAILS FOR ACTUAL SUMP COMPONENT INSTALLATION.

TYPICAL TURBINE WIRING
SCALE: NTS



TYPICAL DISPENSER WIRING
SCALE: NTS

#1 A- 1" RIGID METAL CONDUIT SHALL BE RUN FORM EACH SUBMERSIBLE TO THE BUILDING WIRING TROUGH AND IT SHALL CONTAIN THE SUBMERSIBLE PUMP WIRING SEAL OFF REQUIRED FOR HOMERUN TO BUILDING

#2 A 1" RIGID METAL CONDUIT SHALL BE RUN FORM SUBMERSIBLE SUMP TO THE ANNULAR RISER BEFORE THE HOME RUN TO THE BUILDING THIS CONDUIT SHALL CONTAIN LOW VOLTAGE VEEDER-ROOT SENSOR WIRING ONLY.

NOTE: FOR SITES IN CALIFORNIA THE LAST 2 FEET OF CONDUIT ENTERING A SUMP MUST BE RIGID PVC COATED.

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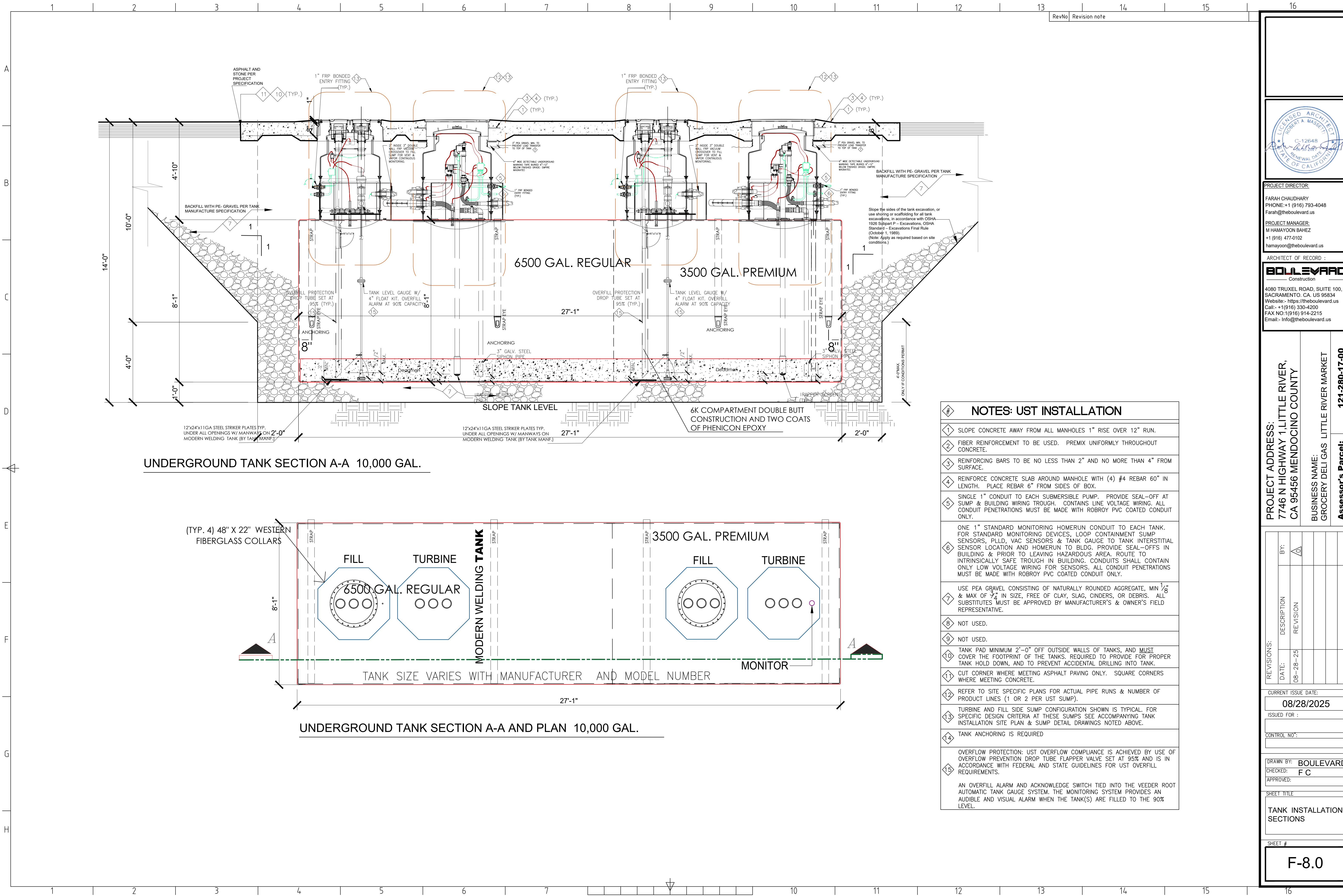
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CHECKED: **F C**

APPROVED:

SHEET TITLE
TANK TYPICAL
CONDUIT
INSTALLATION
PLAN VIEW

SHEET #
F-7.0



UNDERGROUND TANK SECTION A-A 10,000 GAL.

UNDERGROUND TANK SECTION A-A AND PLAN 10,000 GAL.

NOTES: UST INSTALLATION	
1	SLOPE CONCRETE AWAY FROM ALL MANHOLES 1" RISE OVER 12" RUN.
2	FIBER REINFORCEMENT TO BE USED. PREMIX UNIFORMLY THROUGHOUT CONCRETE.
3	REINFORCING BARS TO BE NO LESS THAN 2" AND NO MORE THAN 4" FROM SURFACE.
4	REINFORCE CONCRETE SLAB AROUND MANHOLE WITH (4) #4 REBAR 60" IN LENGTH. PLACE REBAR 6" FROM SIDES OF BOX.
5	SINGLE 1" CONDUIT TO EACH SUBMERSIBLE PUMP. PROVIDE SEAL-OFF AT SUMP & BUILDING WIRING TROUGH. CONTAINS LINE VOLTAGE WIRING. ALL CONDUIT PENETRATIONS MUST BE MADE WITH ROBROY PVC COATED CONDUIT ONLY.
6	ONE 1" STANDARD MONITORING HOMERUN CONDUIT TO EACH TANK. FOR STANDARD MONITORING DEVICES, LOOP CONTAINMENT SUMP SENSORS, PLLD, VAC SENSORS & TANK GAUGE TO TANK INTERSTITIAL SENSOR LOCATION AND HOMERUN TO BLDG. PROVIDE SEAL-OFFS IN BUILDING & PRIOR TO LEAVING HAZARDOUS AREA. ROUTE TO INTRINSICALLY SAFE TROUGH IN BUILDING. CONDUITS SHALL CONTAIN ONLY LOW VOLTAGE WIRING FOR SENSORS. ALL CONDUIT PENETRATIONS MUST BE MADE WITH ROBROY PVC COATED CONDUIT ONLY.
7	USE PEA GRAVEL CONSISTING OF NATURALLY ROUNDED AGGREGATE, MIN 1/8" & MAX OF 3/4" IN SIZE, FREE OF CLAY, SLAG, CINDERS, OR DEBRIS. ALL SUBSTITUTES MUST BE APPROVED BY MANUFACTURER'S & OWNER'S FIELD REPRESENTATIVE.
8	NOT USED.
9	NOT USED.
10	TANK PAD MINIMUM 2'-0" OFF OUTSIDE WALLS OF TANKS, AND MUST COVER THE FOOTPRINT OF THE TANKS. REQUIRED TO PROVIDE FOR PROPER TANK HOLD DOWN, AND TO PREVENT ACCIDENTAL DRILLING INTO TANK.
11	CUT CORNER WHERE MEETING ASPHALT PAVING ONLY. SQUARE CORNERS WHERE MEETING CONCRETE.
12	REFER TO SITE SPECIFIC PLANS FOR ACTUAL PIPE RUNS & NUMBER OF PRODUCT LINES (1 OR 2 PER UST SUMP).
13	TURBINE AND FILL SIDE SUMP CONFIGURATION SHOWN IS TYPICAL. FOR SPECIFIC DESIGN CRITERIA AT THESE SUMPS SEE ACCOMPANYING TANK INSTALLATION SITE PLAN & SUMP DETAIL DRAWINGS NOTED ABOVE.
14	TANK ANCHORING IS REQUIRED
15	OVERFLOW PROTECTION: UST OVERFLOW COMPLIANCE IS ACHIEVED BY USE OF OVERFLOW PREVENTION DROP TUBE FLAPPER VALVE SET AT 95% AND IS IN ACCORDANCE WITH FEDERAL AND STATE GUIDELINES FOR UST OVERFILL REQUIREMENTS. AN OVERFILL ALARM AND ACKNOWLEDGE SWITCH TIED INTO THE VEEDER ROOT AUTOMATIC TANK GAUGE SYSTEM. THE MONITORING SYSTEM PROVIDES AN AUDIBLE AND VISUAL ALARM WHEN THE TANK(S) ARE FILLED TO THE 90% LEVEL.

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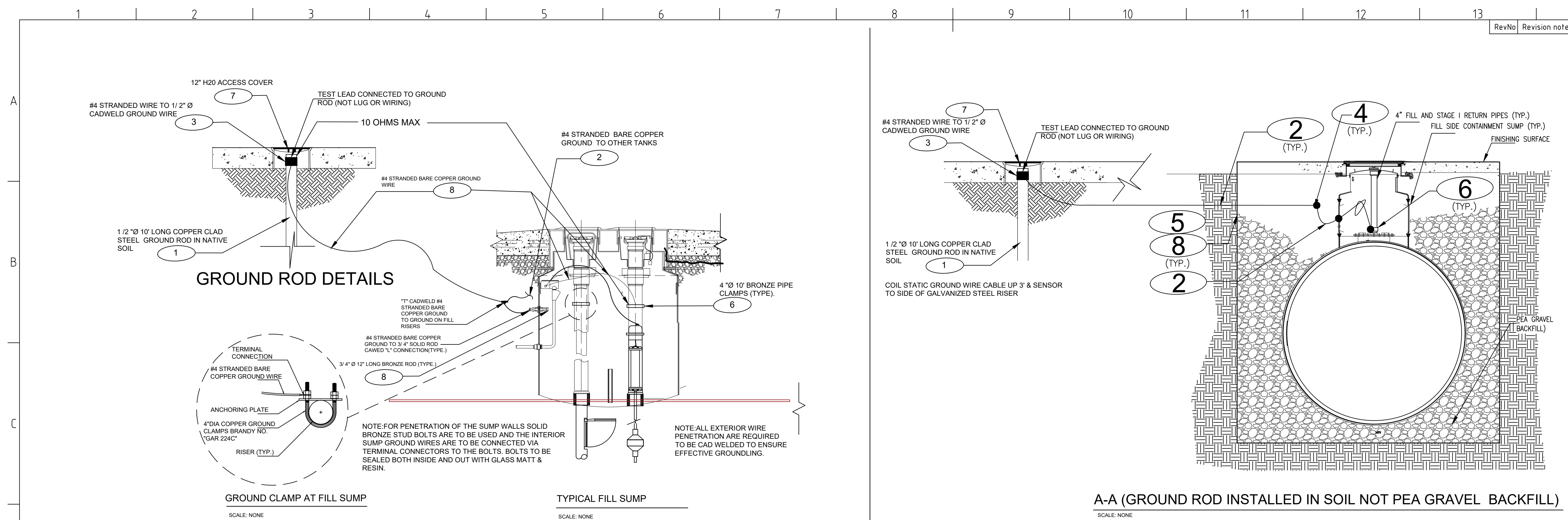
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NOTES:

ALL STAGE 1 FILL AND VAPOR RISER ADAPTERS SHALL BE ELECTRICALLY GROUNDED TO PROMOTE THE RELAXATION OF STATIC CHARGE.

THE BONDING AND GROUNDING FOR STATION ELECTRICAL PROTECTION SHALL BE IN COMPLIANCE PER ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES INCLUDING NFPA 30, FLAMMABLE AND COMBUSTIBLE LIQUID CODE, NFPA 77, RECOMMENDED PRACTICE ON STATIC ELECTRICITY, NFPA 70, NATIONAL ELECTRO CODE, AND THE CALIFORNIA CODED OF REGULATIONS, SUBCHAPTER 18, PETROLEUM SAFETY ORDERS-REFINING, TRANSPORTATION AND HANDLING, ARTIER 5. FIRE AND EXPLOSIONS.

PER SECTION 8.4.1.3 OF NFPA 77, THE MEASURED TOTAL RESISTANCE IN THE GROUND PATH TO EARTH SHALL BE LESS THAN 1 MEGAOHM WHICH IS CONSIDERED ADEQUATE FOR RECLAMATION OF STAN CHARGE THE MAXIMUM ALLOWABLE GROUND PAT TO EARTH REACTANCE FOR STATIC ELECTRICITY GROUNDING APPLICATIONS SHALL NOT EXCEED 100,000 OHMS.

PER SECTION 8.4.1.3 OF NFPA 77, THE RESISTANCE IN METALLIC BONDING AND OR GROUNDING SYSTEMS SHALL BE LESS THAN 10 OHMS, RESISTANCE HIGHER THAN 10 ON MS INDICATES INADEQUATE CONNECTIONS

A GROUNDING SYSTEM PER NEC CODE FOR CURRENT CARRYING CONDUCTORS SHALL BE CONSIDERED MORE THAN ADEQUATE FOR A STAN ELECTRICAL GROUNDING SYSTEM.

PER THE NFPA 30, Section 8-6.3.4 ALL PARTS OF THE FILL PPE ASSEMBLY, INCLUDING THE DROP ETUDE, SHALL FORM A CONTINUOUS ELECTRICALLY CONDUCTIVE PATH.

THE MINIMUM WIRE SIZE FOR BONDING AND ROUNDING SHALL BE COPPER AWG #4

A 1/2BY 10 LONG CORNER CLAD STEEL GROUND ROD SHALL BE DRIVEN INTO NATIVE SOIL ONLY PLACING THE GROUND ROD INTO TANK PIT FEA GRAVEL SHALL NOT BE PERMITTED UNDER ANY CONDITIONS, THE CONTRACTOR IS RESPONSIBLE FOR CLEARING ANY UNDERGROUND UNITS PRIOR TO INSTALLATION OF THE GROUND.

THE GROUND ROD TO GROUND WIRE CONNECTION SHALL BE ACCESSIBLE THROUGH A H-20 RATED 12 DIAMETER MINIMUM ACCESS COVER TO ASSIST INSPECTION, MAINTENANCE AND TESTING, THE SCREW TYPE GROUND ROD CLAMP SHALL BE UL LISTED FOR DIRECT DRILL ONE MAIN STRANDED #4 THE CONDUCTOR SHALL BE RUN PAST EACH FILL SUMP, ONE STRANDED 4 THEN CONDUCTOR SHALL BE ROUTED TO EACH FILL SUMP INSTALLATION AT FINAL SHALL BE AS FOLLOWS AND MUST BE COMPLETED IN ORDER NOTED AS FOLLOWS.

NOTE: OUT OF HOLE INSTALLATION SEQUENCE:

NOTE ALL CAD WELDS W/ EXCEPTION OF CONNECTIONS AT EACH TANK AND FINAL CAD WELD GROUND ROD NOTED IN SCHEDULE ON THIS SHEET MAY BE PREFABRICATED OUTSIDE THE TANK AREA AND BROUGHT TO SITE.

1MAKE CONNECTION TO PIPING STEEL SURFACE CADWELD CONNECTION CONNECTION WITH 4 STRANDED WIRE TO EACH FILL AND STAGE 1 RISER OUTSIDE THE SUMP AREA, TO ASSURE A COMPLETE CONNECTION, ANY PAINT OR COATING ON THE RISER SHALL BE REMOVED PRIOR TO INSTALLATION OF THE CADWELD CONNECTION 2 APPLY THERMAL CATHODIC PROTECTION TO EACH OF THE 25 WELDS ON RISERS 3FOR EACH TANK RISER MAKE 4 STRANDED TO #4 STRANDED 7T CADWELD CONNECTIONS TO MAN GROUND WIRE BACK TO GROUND ROD. THE CONDUCTORS SHALL HAVE 18 MINIMUM COVER. EACH TANK SHALL HAVE SEPARATE GROUND WIRE TO GROUND ROD 3MAKE #4 STRANDED WIRE TO GROUND ROD CADWELD CONNECTION.CAD WELD CONNECTION MODEL NUMBER PER NUMBER OF TANKS.

NOTE:

ELECTRICAL CONDUIT, FUELING SYSTEM HARDWARE OR THE STATION ELECTRICAL GROUNDING SYSTEM SHALL NOT BE USED FOR GROUNDING OR BONDING FILL AND VAPOR RISERS.

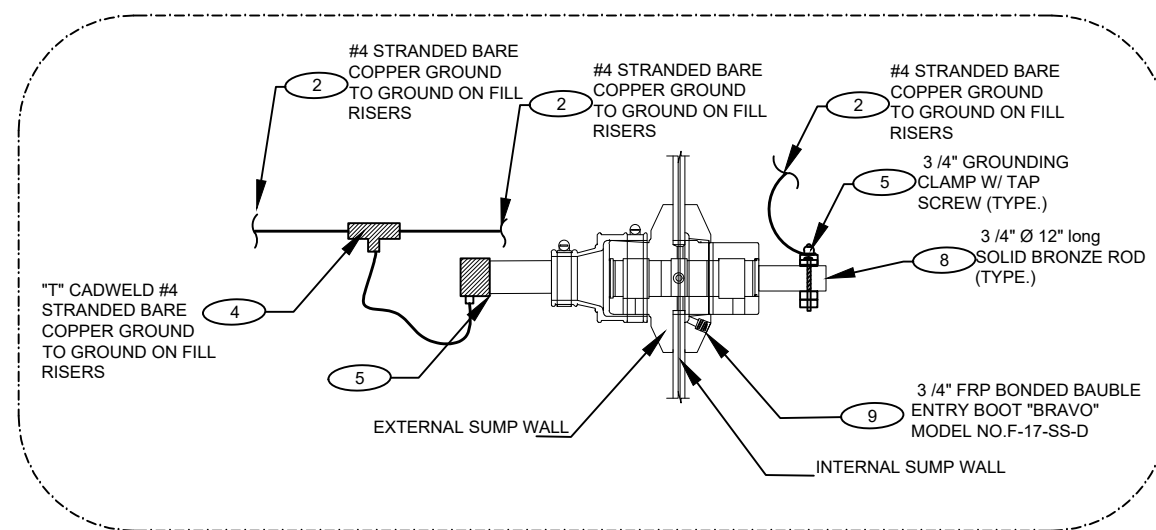
TESTING: AVOID CONNECTING ANY ELECTRICAL TEST LEADS TO THE FILLER OR VAPOR RISER IN A MANNER THAT COULD POTENTIALLY CAUSE STATIC DISCHARGE OR ANY SPARKS OF STATIC CHARGE.

THE FILL AND VAPOR RISERS SHOULD BE TESTED AFTER INSTALLATION AND PERIODICALLY TO VERIFY PROPER BONDING AND GROUNDING COMPETENCY.

THE MAXIMUM RESISTANCE OF ANY FILLER OR VAPOR ADAPTER TO THE GROUND ROD BODY FOR A METAL RISER PIPE, LEAK ARRESTER, AND ADAPTER ASSEMBLY SHALL NOT EXCEED 10 OHMS, RESISTANCE THROUGH ANY COMPOSITE OR NON-METALLIC HARNESS CONNECTIONS SHALL BE MEASURED WITH AN OHMMETER CAPABLE OF READING UP TO 10,000 OHMS. FOR THESE SYSTEMS, THE GROUND RESISTANCE TESTER SHOULD BE CONNECTED TO THE GROUNDING CONDUCTOR CONNECTION IN THE COMPOSITE HARNESS SYSTEM OR RISER PIPE.

FOR INSTALLATION WITHOUT EXPOSED GROUND ROD CONNECTION, TOTAL SYSTEM RESISTANCE SHOULD BE MEASURED WITH AN EARTH RESISTANCE TESTER BY A QUALIFIED ELECTRICIAN FAMILAR WITH EARTH TESTING, THE TWO-POINT METHOD MAY BE USED WITH AN ELECTRICAL GROUNDING AS THE SECOND TEST POINT.

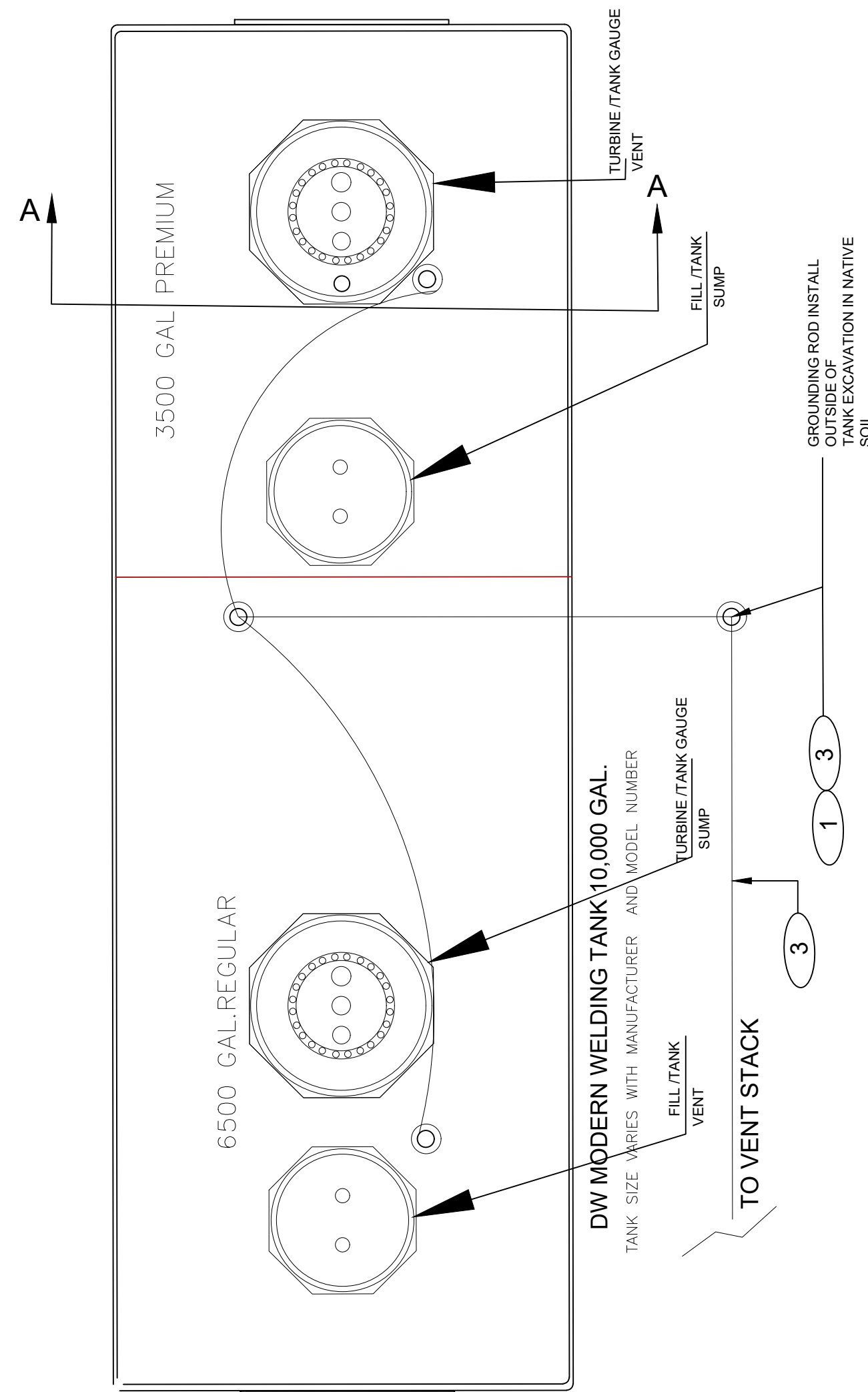
THE MAXIMUM RESISTANCE OF THE NEC GROUND PATH FOR CURRENT CARRYING APPLICATIONS IS 25 OHMS, HOWEVER, GROUND BAR RESISTANCE TO GROUND OF UP TO 100 OHMS IS ACCEPTABLE FOR FILLER STATIC ELECTRICITY PROTECTION, AND STEAM BOWERS. OHMS GROUND CONNECTION NOTE: TEST GROUND IMPEDANCE AT FILLER RISERS, GROUND IMPEDANCE MUST BE LESS THAN 25 OHMS PER CURRENT NEC CODE, IF THE IMPEDANCE IS GREATER THAN 25 OHMS, PLACE ANOTHER GROUND ROD AT LEAST 10 FEET AWAY FROM THE FIRST GROUND ROD AND TIE THE RODS TOGETHER WITH THE SAME SIZE WIRE AND CONNECTORS, MAKE SURE THE







TYPICAL PENETRATION & CONNECTION DETAILS

(SEE INSTALLATION SEQUENCE NOTES THIS SHEET)

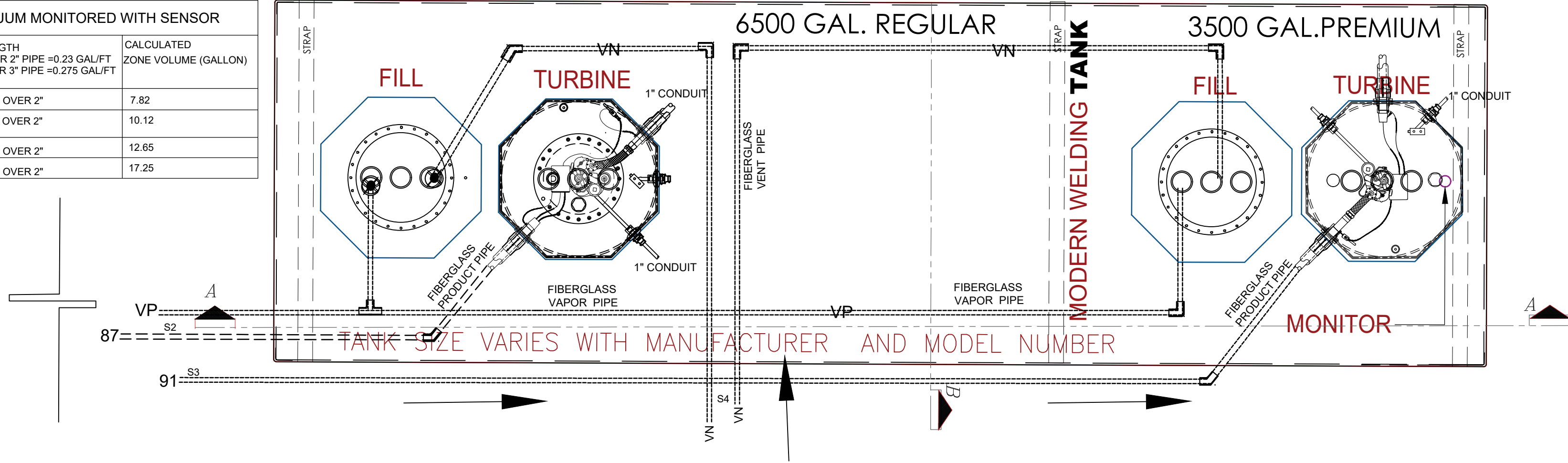
EQUIPMENT SCHEDULE	
ITEM NO.	DESCRIPTION
1	1/2" Ø X 8' 10" LONG COPPER BONDED GROUND ROD "ERICO" PART NO. 611200 (UL LISTED)
2	#6 AWS STRANDED WIRE CABLE W/VEHICLE PROVIDE TERMINAL CONNECTION AT 1" Ø CONNECTION
3	CALDWELL WIRE CABLE TO GROUND TO TERMINAL CONNECTION "ERICO" PART NO. GT114414 UL95WED METAL ROD# STRANDED WIRE TO 1/2" Ø STRANDED GROUND WIRE
4	CALDWELL "CONNECTION FOR #6 BARE STRANDED WIRE CABLE ERICO/PART NO. TAC11L W/95WED METAL
5	3/4" Ø NPT ADJUSTABLE BRONZE GROUNDING PIPE CLAMP LUG EQUIPMENT PN: JRG-105-6
6	4" NPT ADJUSTABLE COPPER GROUND CLAMPS BURNIDY GAR24-C 4-WG GROUND CLAMP
7	100' 100AWG 12" H2O RATED, BOLT DOWN WATER TIGHT ACCESS COVER (USED IN DRIVE AREAS) (USED 100A-120 H2O RATED GRAVITY LUG ACCESS COVER (USED IN PLANTER AREAS)
8	3/4" Ø X 12" LONG SOLID BRONZE ROD
9	3" Ø DOUBLE WALL ENTRY FITTING "BRAVO" MODEL NO. F-17S-D



STATIC GROUNDING PLAN VIEW & BONDING DETAILS

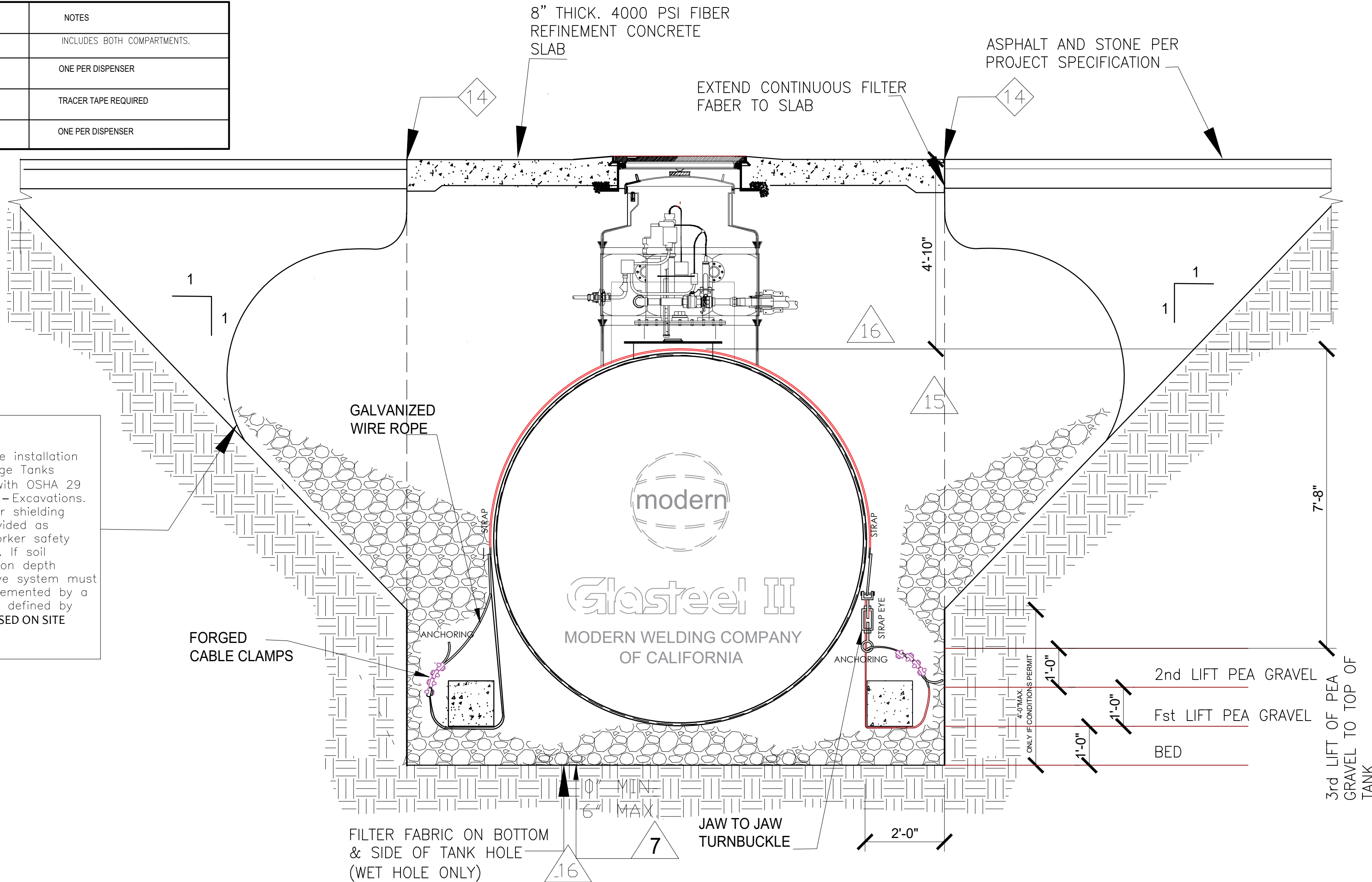
																						
PROJECT DIRECTOR: FARAH CHAUDHARY PHONE: +1 (916) 793-4048 Farah@theboulevard.us																						
PROJECT MANAGER: M HAMAYOON BAHEZ +1 (916) 477-0102 hamayoon@theboulevard.us																						
ARCHITECT OF RECORD :																						
<div style="border: 2px solid black; padding: 5px;">BOULEVARD Construction</div> <p>4080 TRUXEL ROAD, SUITE 100, SACRAMENTO, CA, US 95834 Website: - https://theboulevard.us Call: +1 (916) 330-4200 FAX NO:1(916) 914-2215 Email:- info@theboulevard.us</p>																						
PROJECT ADDRESS: 7746 N HIGHWAY 1, LITTLE RIVER, CA 95456 MENDOCINO COUNTY	<div style="display: flex; justify-content: space-between;"><div style="width: 45%;">BUSINESS NAME: GROCERY DELI GAS LITTLE RIVER MARKET</div><div style="width: 45%; text-align: right;">Assessor's Parcel: 121-280-17-00</div></div>																					
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th colspan="2" style="text-align: left;">REVIEWS:</th><th style="text-align: left;">BY:</th></tr></thead><tbody><tr><td style="width: 20%;">DATE:</td><td style="width: 40%;">DESCRIPTION</td><td style="width: 40%;">REVISION</td></tr><tr><td>08-28-25</td><td></td><td></td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		REVIEWS:		BY:	DATE:	DESCRIPTION	REVISION	08-28-25														
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SHEET TITLE <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold;">TANK INSTALLATION SECTIONS</div>																						
SHEET # <div style="border: 2px solid black; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;">F-9.0</div>																						

PRODUCT, VAPOR & VENT PIPES INTERSTICE CONTINUOUS VACUUM MONITORED WITH SENSOR				
ZONE	VACUUM SENSOR LOCATION	LINES BEING MONITORED	LENGTH 3" OVER 2" PIPE = 0.23 GAL/FT 4" OVER 3" PIPE = 0.275 GAL/FT	CALCULATED ZONE VOLUME (GALLON)
S1	AT 87 STP SUMP	87 UNL.#1 PRODUCT LINE	34' of 0" OVER 2"	7.82
S2	AT VAPOR SUMP	87 UNL.#1& VAPOR	44' of 0" OVER 2"	10.12
S3	AT 91 STP SUMP	PREMIUM#1 PRODUCT LINE	55' of 0" OVER 2"	12.65
S4	AT VENT FILL SUMP	VENT LINE	75' of 0" OVER 2"	17.25



1 UNDERGROUND TANK SECTION B-B AND PLAN 10,000 GAL.

MONITORED ZONES (UST SYSTEM)			
LOCATION/EQUIPMENT	TYPE OF MONITORING	APPROX. VOLUME (GALLONS)	NOTES
10,000 GAL GASOLINE UST (DOUBLE-WALL)	VACUUM MONITORED INTERSTITIAL MONITORING	MANUFACTURE SPC (=250-300 GAL.)	INCLUDES BOTH COMPARTMENTS.
DISPENSER SUMPS (2 EA)	VACUUM MONITORED	20 GAL EACH	ONE PER DISPENSER
PIPING INTERSTITIAL (PRODUCT + VENT)	HYDROSTATIC ZONE	CALCULATION BY PIPING LENGTH DIAMETER	TRACER TAPE REQUIRED
TANK SUMPS / TRANSITION SUMPS	VACUUM MONITORED	=30-50 GAL	ONE PER DISPENSER



2 MODERN WELDING TANK TYPICAL ANCHORING SYSTEM SECTION B-B
SCALE: 1/2" = 1'-0"

NOTE:
ALTERNATE ANCHORING BY USE OF A CONCRETE ANCHORING PAD IS PERMITTED. AND SUCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION.

NOTE:
DEFLECTION MEASUREMENT BEFORE & AFTER TANK INSTALLATION SHALL BE ACCORDING TO MANUFACTURER'S REQUIREMENTS AND SHALL BE WITHIN MANUFACTURER'S TOLERANCES. ALL INFORMATION SHALL BE COMPLETED AS PER THE MANUFACTURER'S WARRANTY DOCUMENTATION.

- NOTES: UST INSTALLATION
- SLOPE CONCRETE AWAY FROM ALL MANHOLES 1" RISE OVER 12" RUN.
 - FIBER REINFORCEMENT TO BE USED. PREMIX UNIFORMLY THROUGHOUT CONCRETE.
 - REINFORCING BARS TO BE NO LESS THAN 2" AND NO MORE THAN 4" FROM SURF ACE.
 - REINFORCE CONCRETE SLAB AROUND MANHOLE 'WITH (4)#-4 REBAR 60" IN LENGTH. PLACE REBAR 6" FROM SIDES OF BOX.
 - SINGLE 1" CONDUIT TO EACH SUBMERSIBLE PUMP. PROVIDE SEAL-OFF AT SUMP & BUILDING WIRING TROUGH. CONTAINS LINE VOLTAGE WIRING. ALL CONDUIT PENETRATIONS MUST BE MADE WITH ROBOY PVC COATED CONDUIT ONLY.
 - ONE 1" STANDARD MONITORING HOMERUN CONDUIT TO EACH TANK. FOR STANDARD MONITORING DEVICES, LOOP CONTAINMENT SUMP SENSORS, PLDD, VAC SENSORS & TANK GAUGE TO TANK INTERSTITIAL SENSOR LOCATION AND HOMERUN TO BLDG. PROVIDE SEAL-OFFS IN BUILDING PRIOR TO LEAVING HAZARDOUS AREA. ROUTE TO INTRINSICALLY SAFE TROUGH IN BUILDING. CONDUITS SHALL CONTAIN ONLY LOW VOLTAGE WIRING FOR SENSORS. ALL CONDUIT PENETRATIONS MUST BE MADE WITH ROBOY PVC COATED CONDUIT ONLY.
 - USE PEA GRAVEL CONSISTING OF NATURALLY ROUNDED AGGREGATE, MIN 1/8" & MAX OF 3/4" IN SIZE, FREE OF CLAY, SLAG, CINDERS, OR DEBRIS. ALL SUBSTITUTES MUST BE APPROVED BY MANUFACTURER'S & OWNER'S FIELD REPRESENTATIVE.

- NOT USED.
- LAYOUT TANKS & STAGE II VAPOR RECOVERY PIPING SUCH THAT THE STAGE II PIPING DRAINS & ENTERS INTO REGULAR UNLEADED TANK FIRST W/ 3" CONNECTIONS, AND CONTINUES 3" TO OTHER TANK.
- BALL VALVE ON MANIFOLD THEN TO REMAIN OPEN DURING NORMAL OPERATION.
- Deadman System
- TO ABOVE GROUND VENT RISERS, SEE DETAIL ON SHEET F-6
- TANK PAD MINIMUM 2' -0" OFF OUTSIDE WALLS OF TANKS, AND MANHOLE COVER THE FOOTPRINT OF THE TANKS. REQUIRED TO PROVIDE FOR PROPER TANK HOLD DOWN, AND TO PREVENT ACCIDENTAL DRILLING INTO TANK.
- CUT CORNER WHERE MEETING ASPHALT PAVING ONLY. SQUARE CORNERS WHERE MEETING CONCRETE.
- NOT USED
- REFER TO DIESEL UST INSTALLATION DRAWING FOR STAND-ALONE UST OR AS AN EXTENSION TO THIS UST DESIGN.
- SEE SITE SPECIFIC PLANS FOR ACTUAL TANK SIZES, PLACEMENT, AND ORIENTATION. FINAL SITE SPECIFIC TANK LAYOUTS SHALL BE APPROVED BY THE LOCAL DISTRIBUTION TERMINAL MANAGER OR HIS AGENT. FINAL LOCATION SIGN-OFF SHALL BE DOCUMENTED.
- REFER TO SITE SPECIFIC PLANS FOR ACTUAL PIPE RUNS & NUMBER OF PRODUCT LINES (1 OR 2 PER UST SUMP).

- NOTES: UST ANCHORING
- WHEN WORKING BELOW GRADE, EXTREME CARE MUST BE TAKEN TO ASSURE WORKMEN SAFETY. SLOPING AND SHORING SHALL BE PROVIDED TO COMPLY WITH OSHA CONSTRUCTION INDUSTRY STANDARDS 29 CFR PART 1926 SUBPART P. OSHA STANDARDS-EXCAVATIONS: FINAL RULE OCTOBER 1, 1989. HARDHATS SHALL BE WORN BY ALL WORKMEN OPERATING IN EXCAVATION OR WHERE OVERHEAD WORK IS PROGRESSING.
 - TANK ANCHORING REQUIRED WHEN A HIGH WATER TABLE IS ENCOUNTERED OR IS REQUIRED BY LOCAL REGULATION. CONSULT WITH OWNER'S REPRESENTATIVE.
 - INSTALL DEADMAN ANCHORS PER TANK MANUFACTURERS INSTALLATION INSTRUCTIONS.
 - DIMENSIONS OF MANUFACTURER SUPPLIED DEADMAN FOR 8'-1" DIA. 10,000 GAL. TANK ARE 8"x18"x34"L. QTY: (2) EACH TANK.
 - TOTAL LENGTH OF FIELD CONSTRUCTED DEADMAN IS MIN. 12" GREATER THAN OVERALL LENGTH OF TANK.
 - EACH TANK REQUIRES DEADMAN ON EACH SIDE.
 - HOLD DOWN STRAPS ARE REQUIRED FOR 10,000 GALLON TANKS AS SPECIFIED AND SUPPLIED BY TANK MANUFACTURER.
 - LOCATE STRAPS ON RIBS WHERE INDICATED ON TANK.
 - FASTEN WIRE WITH AT LEAST THREE CLAMPS AROUND DEADMAN AND THROUGH THE END POINT OF THE HOLD DOWN STRAP. CLAMPS SHALL BE ALTERNATED 180° FROM EACH OTHER.
 - ATTACH ALL HOLD DOWN STRAPS TO CABLE USING TURNBUCKLES. UNIFORMLY TIGHTEN ALL STRAPS TO ACHIEVE EQUAL TENSION WITHOUT TANK DEFLECTION. MEASURE TANK DIAMETER BEFORE AND AFTER TIGHTENING STRAPS TO ENSURE NO TANK DEFLECTION.
 - WIRE ROPE MINIMUM DIAMETER 1/2".
 - TURNBUCKLES: HOOK TYPE-1-1/4" DIAMETER, AND REINFORCING -3/4" DIAMETER EYE TYPE -3/4" DIAMETER
 - COAT ALL EXPOSED STRAPS, CABLES, TURNBUCKLES, AND REINFORCING BARS WITH PITCHMASTIC.
 - INSTALL USTs SO THAT TOP OF TANKS ARE AT SAME HEIGHT.
 - IN UNSTABLE SOIL (AS DEFINED BY SOILS REPORT) THE DIMENSION MUST BE 4 FT. FROM BOTH SIDES AND ENDS WITH MODERN WELDING TANKS
 - FILTER FABRIC (DUPONT TYPAR OR MIRAFI 500X) IS REQUIRED FOR WET HOLE INSTALLATIONS ONLY FABRIC MUST EXTEND TO SLAB AND MAY BE PINNED SIDE OF HOLE WITH WIRE ETC SEAMS MUST BE LAPPED 1" MINIMUM.

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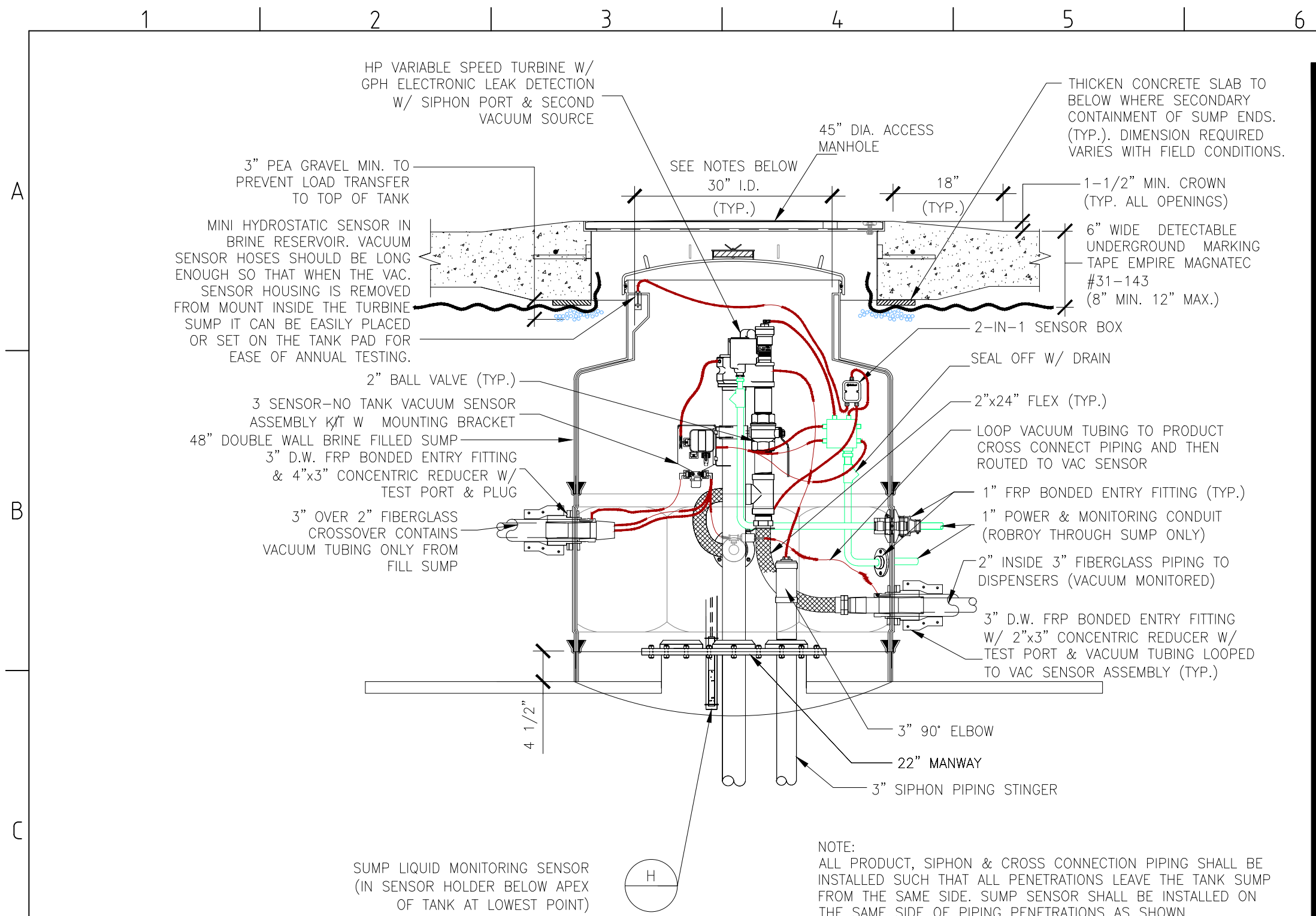
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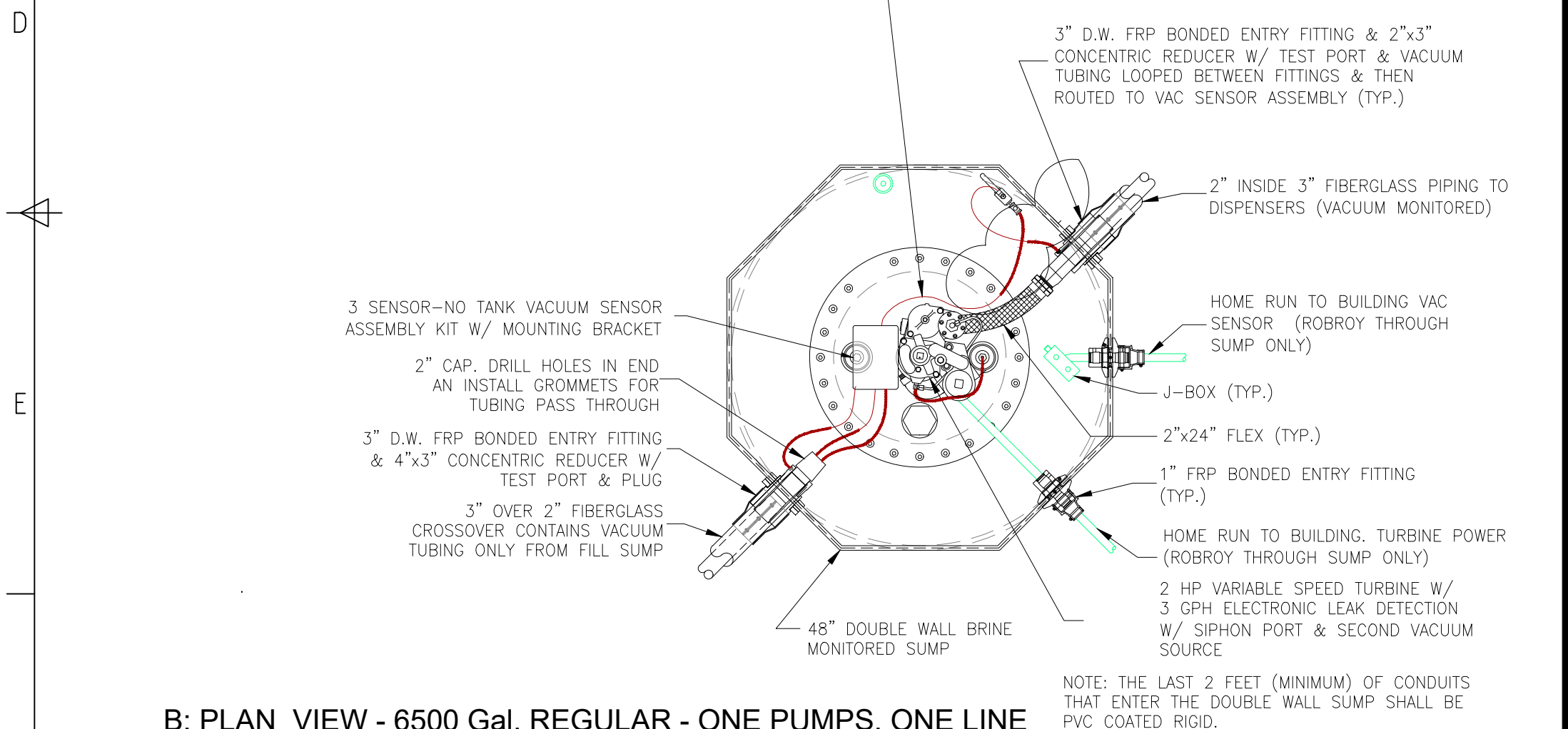
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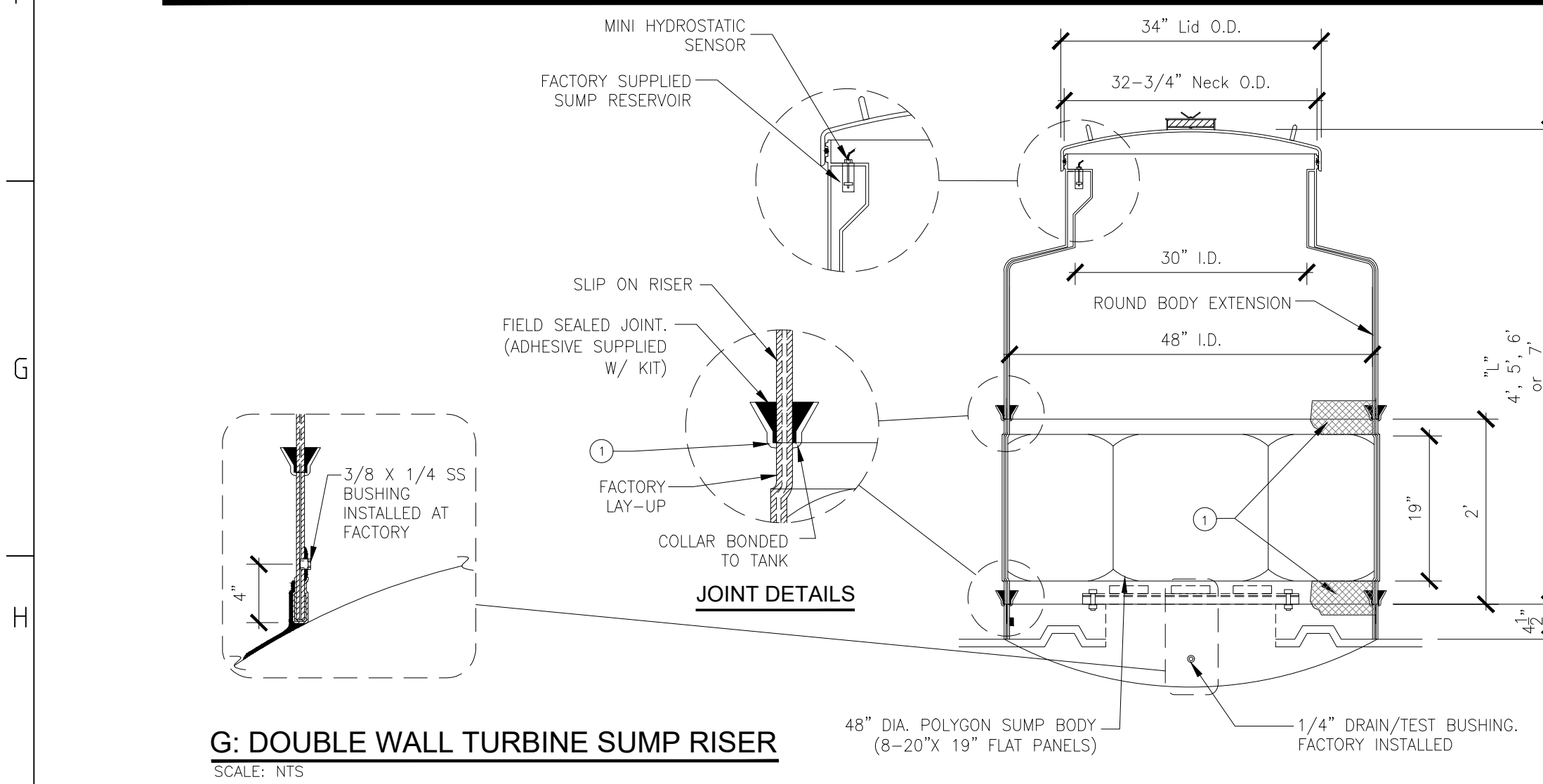
A: SECTION VIEW - 6500 Gal. REGULAR - ONE PUMPS, ONE LINE

SCALE: 3/4" = 1'-0"



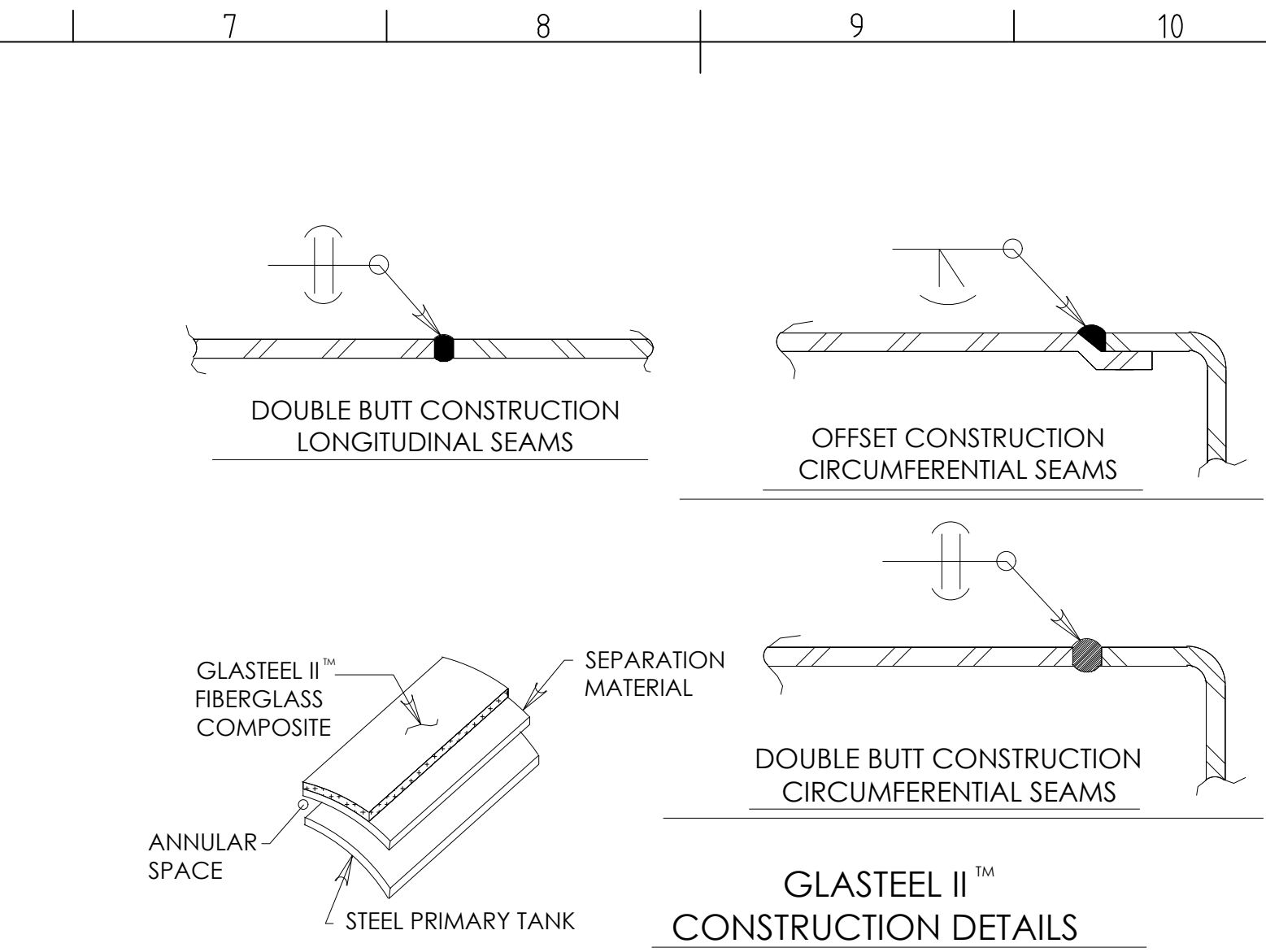
B: PLAN VIEW - 6500 Gal. REGULAR - ONE PUMPS, ONE LINE

SCALE: 3/4" = 1'-0"



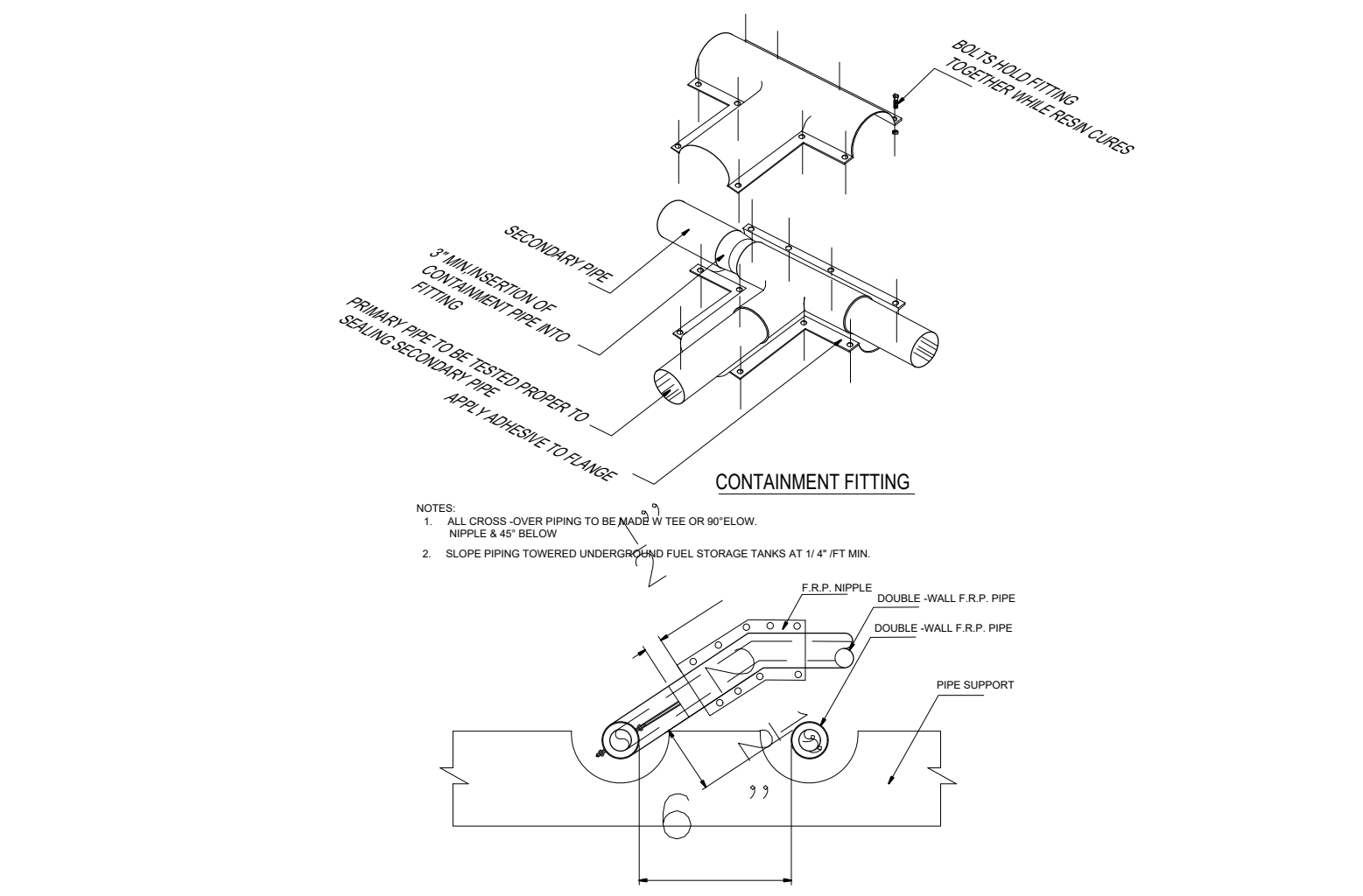
G: DOUBLE WALL TURBINE SUMP RISER

SCALE: NTS



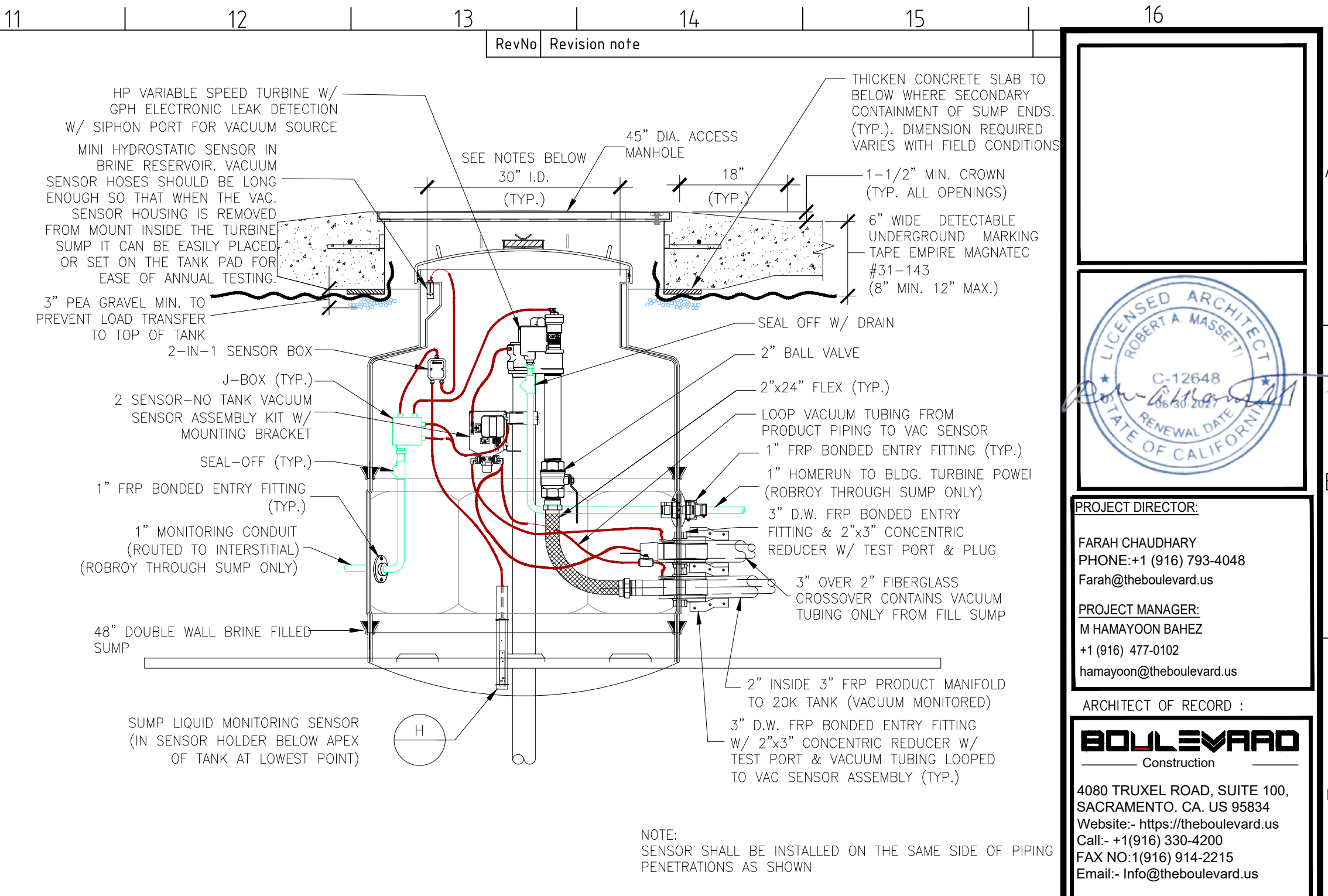
C: MODERN WELDING TANK DETAILS

SCALE: NTS



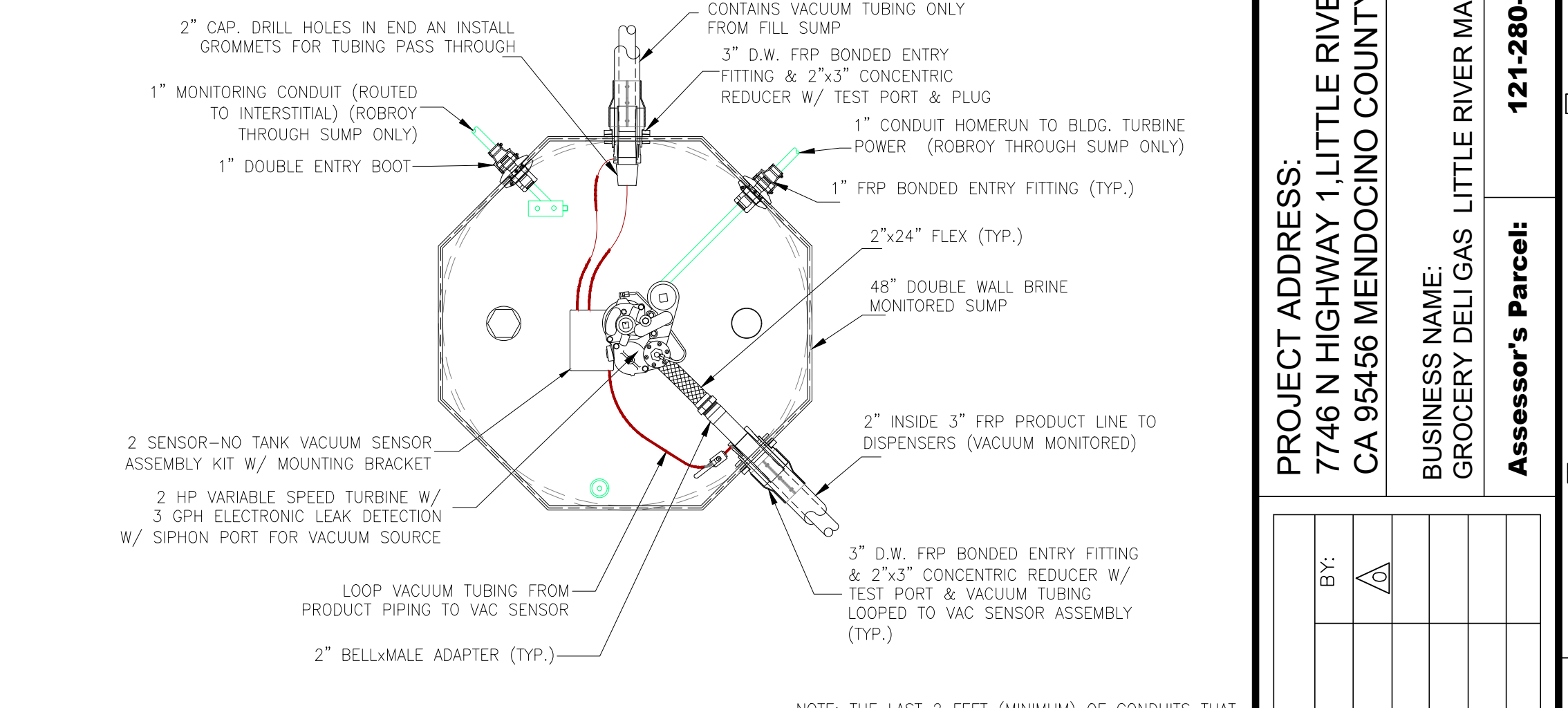
D: PIPING CROSSOVER DETAILS

SCALE: NTS



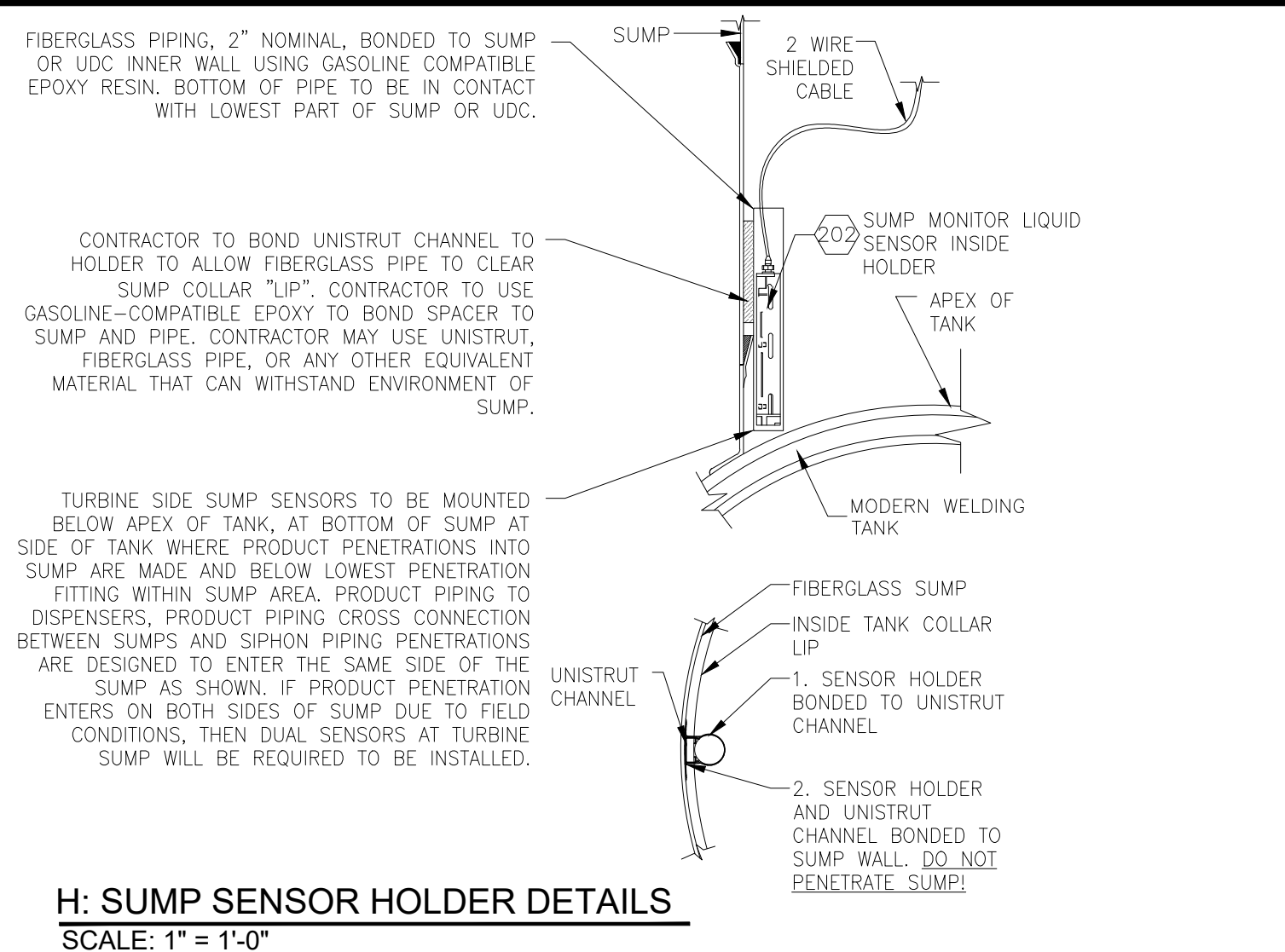
E: SECTION VIEW - 3500 Gal. PREMIUM - ONE PUMP, ONE LINE

SCALE: 3/4" = 1'-0"



F: PLAN VIEW - 3500 Gal. PREMIUM - ONE PUMP, ONE LINE

SCALE: 3/4" = 1'-0"



H: SUMP SENSOR HOLDER DETAILS

SCALE: 1" = 1'-0"

NOTE: INDICATES ITEMS FOUND ON MATERIALS LIST SHEETS F-4.0 & F-5.0

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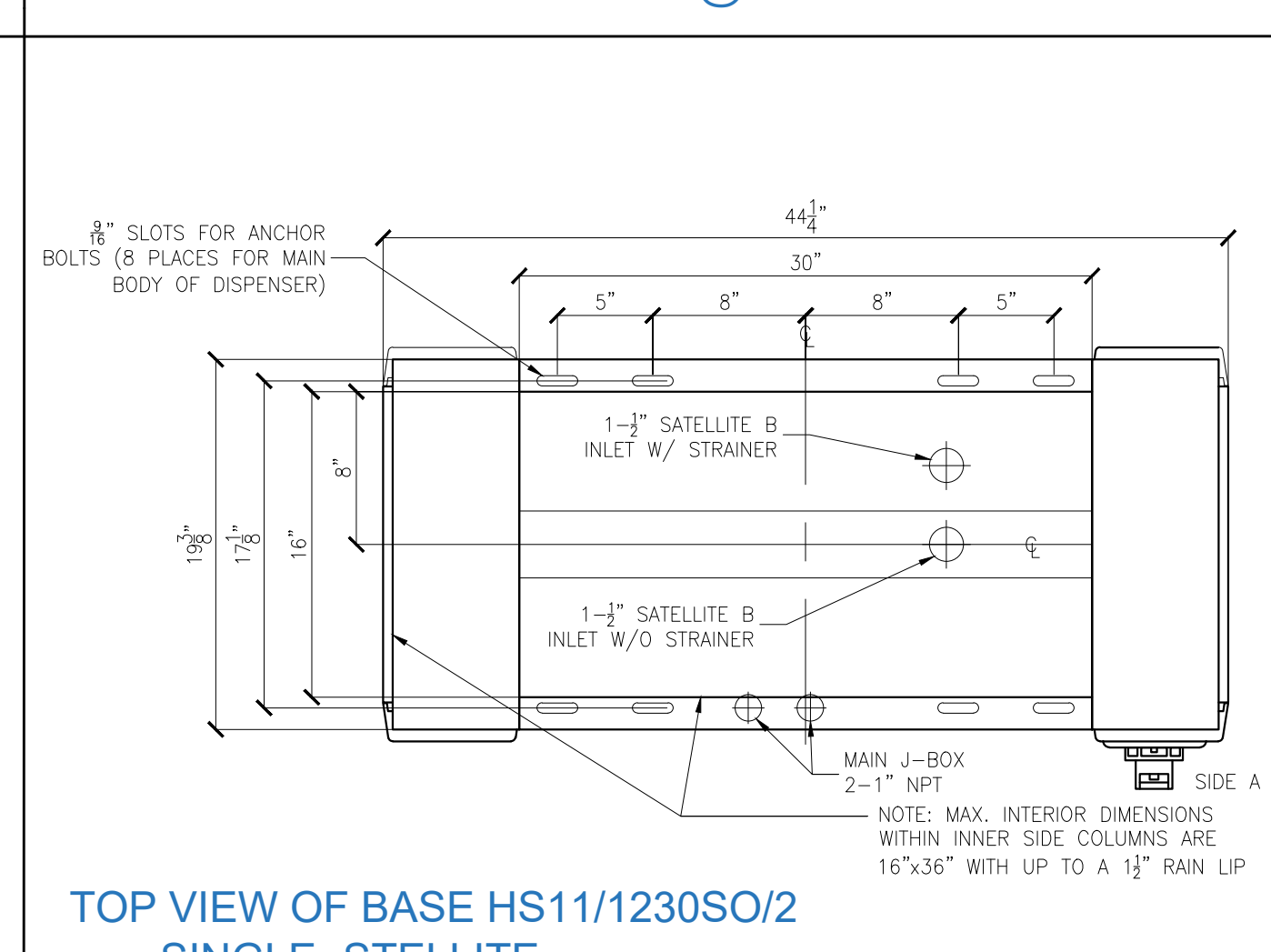
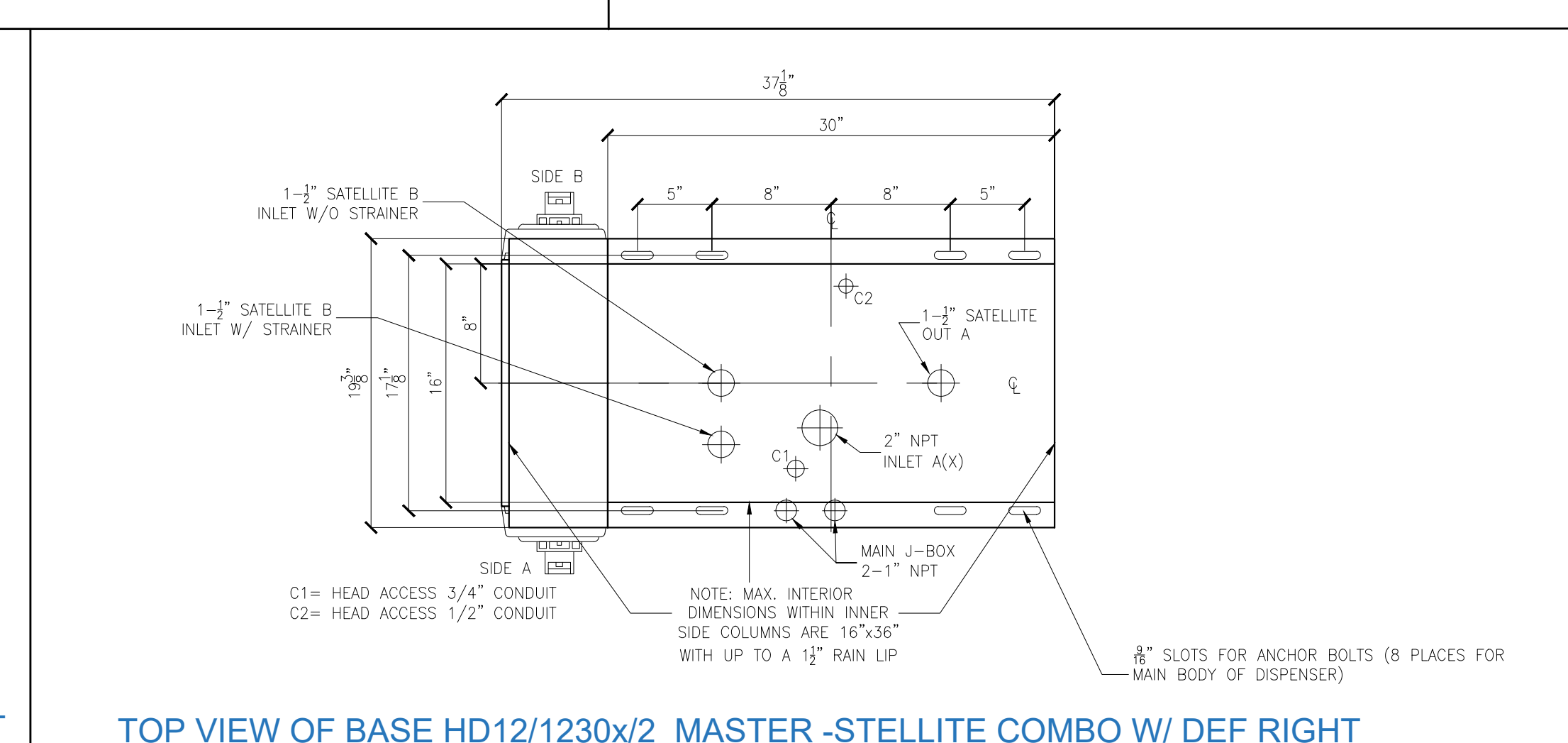
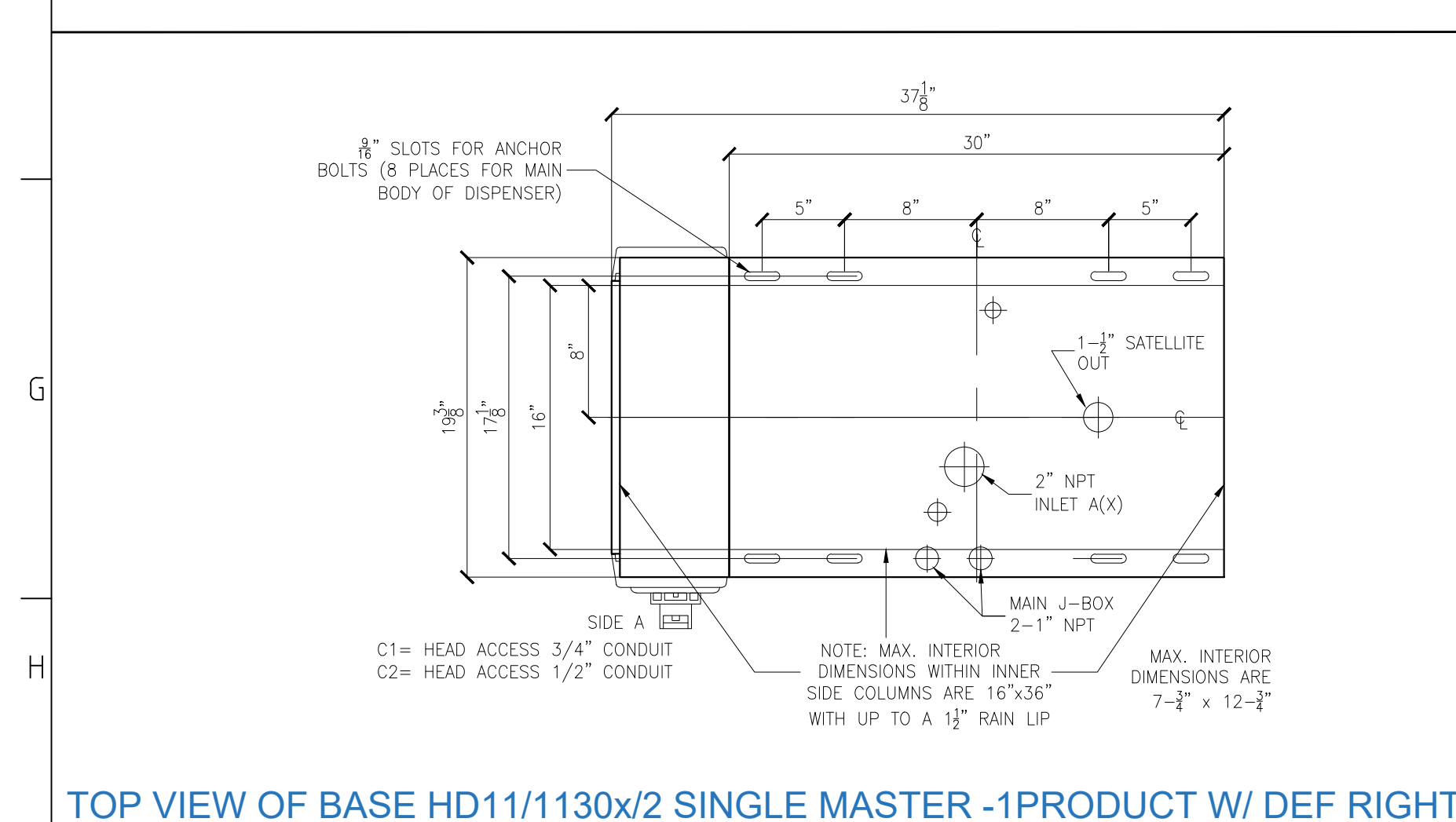
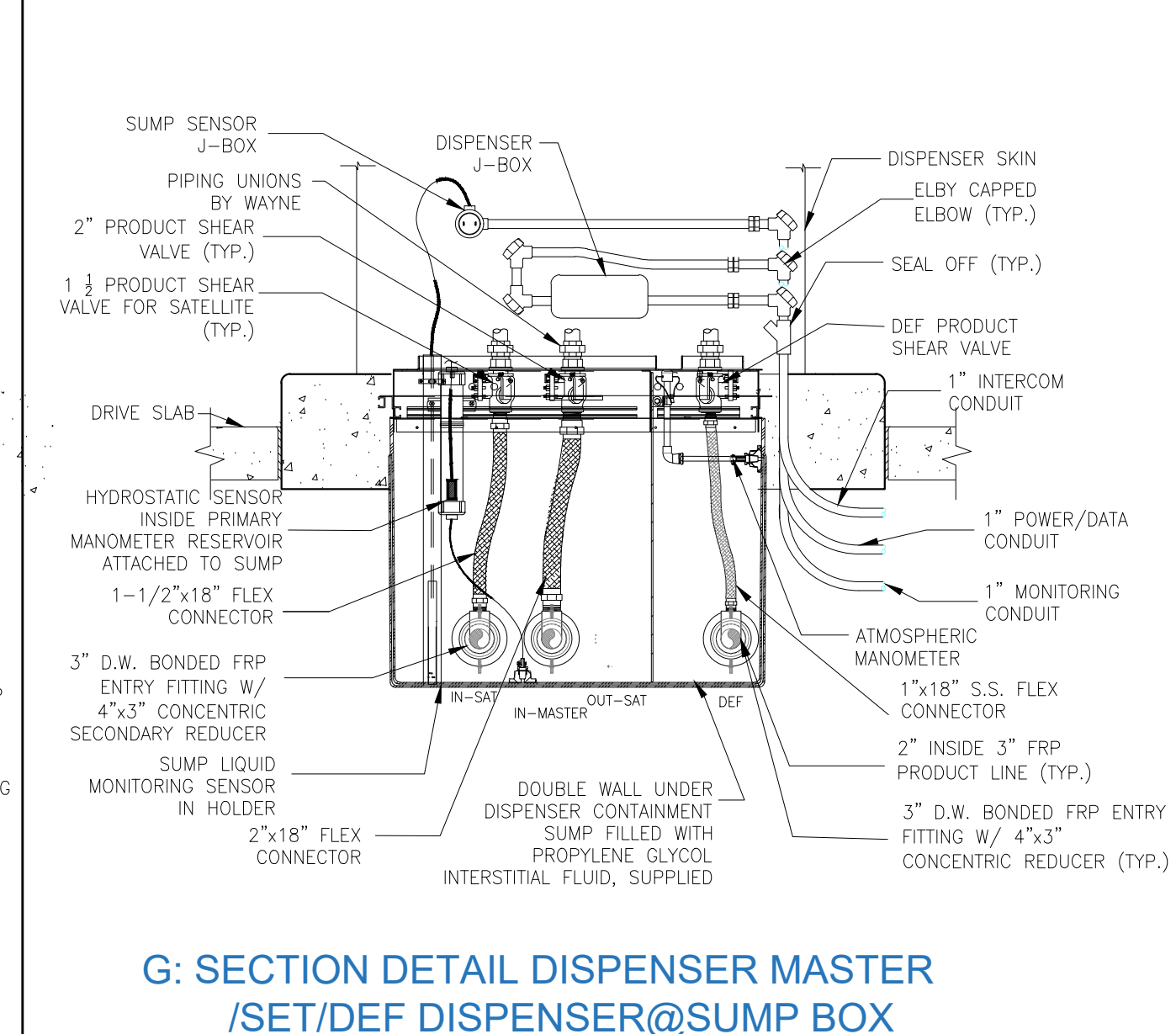
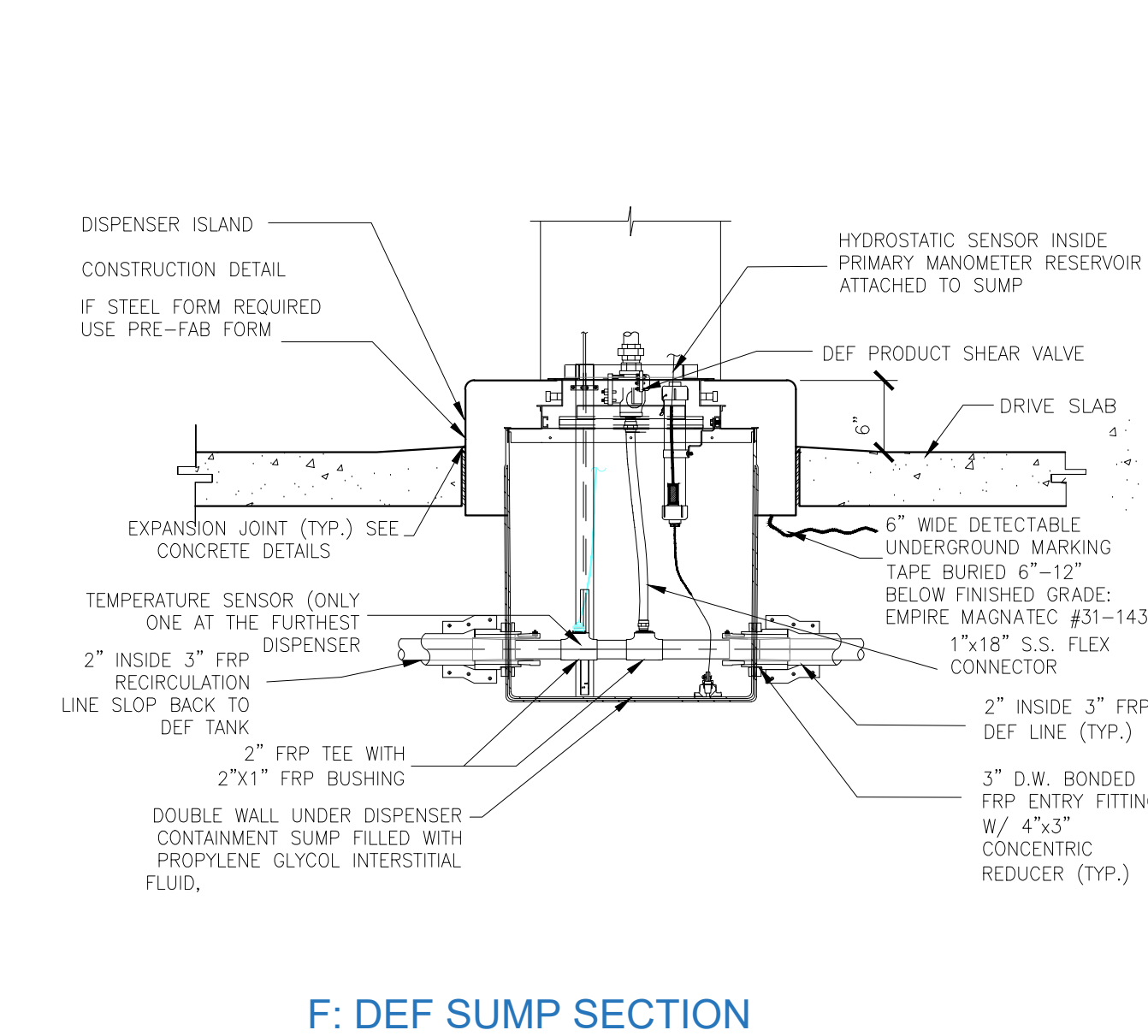
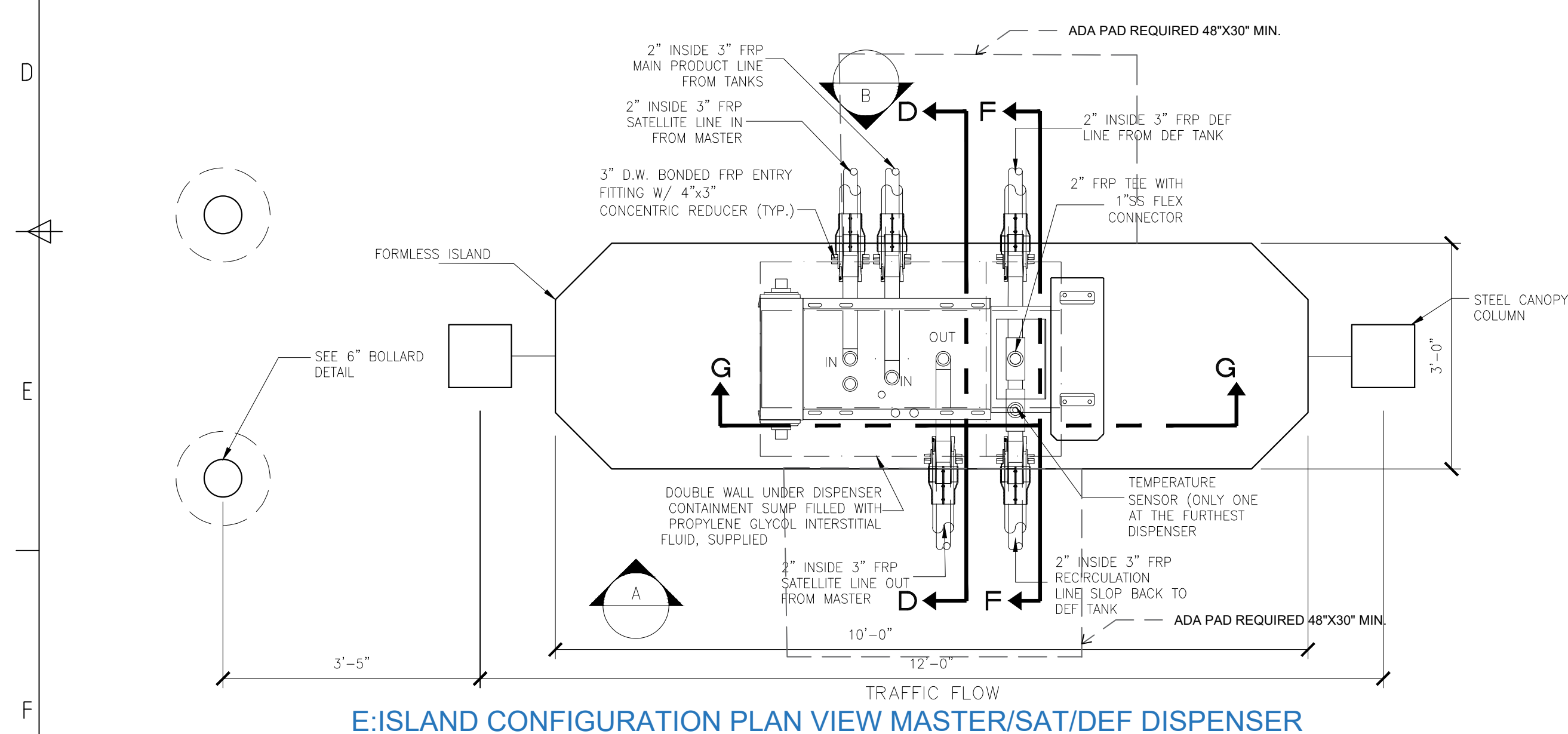
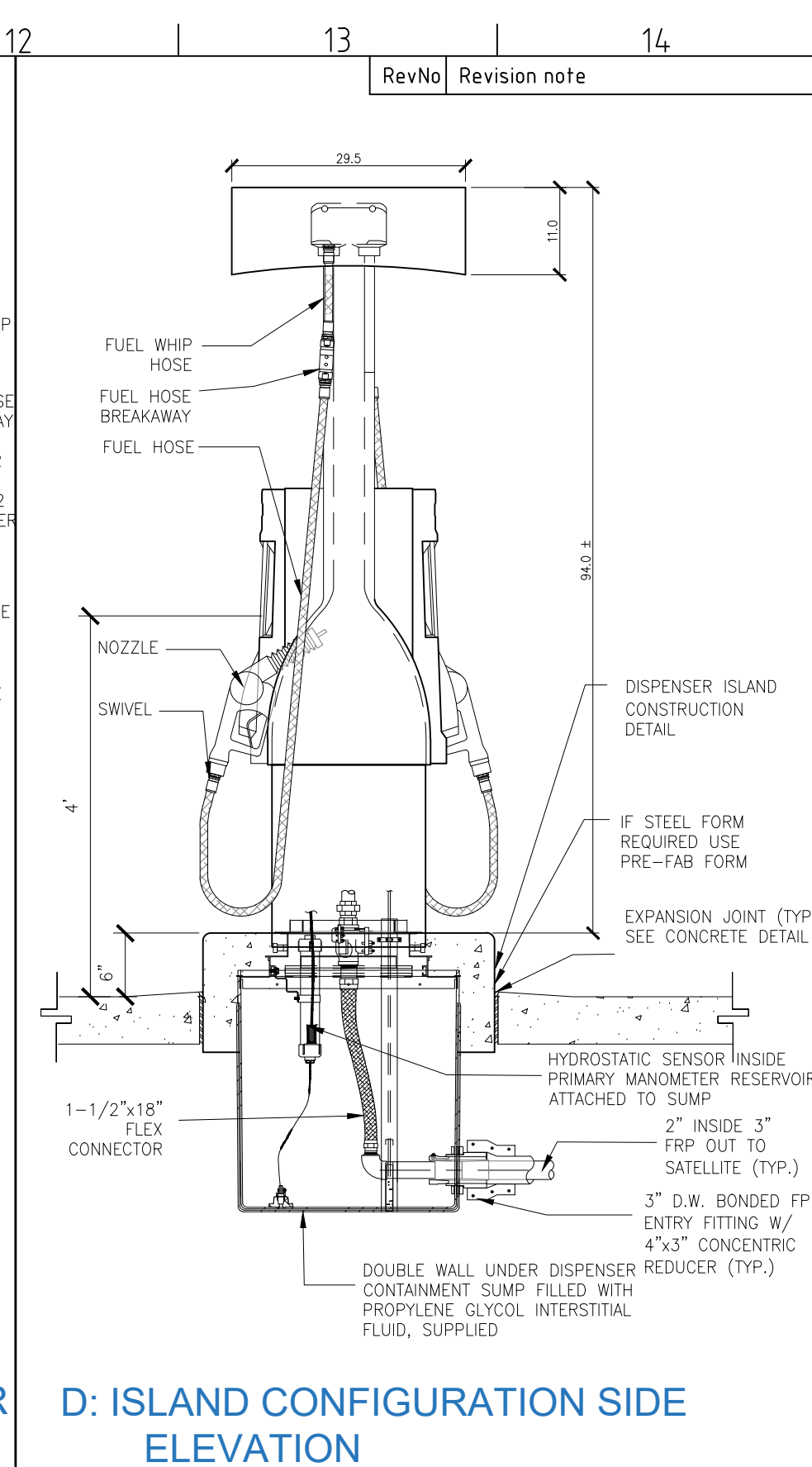
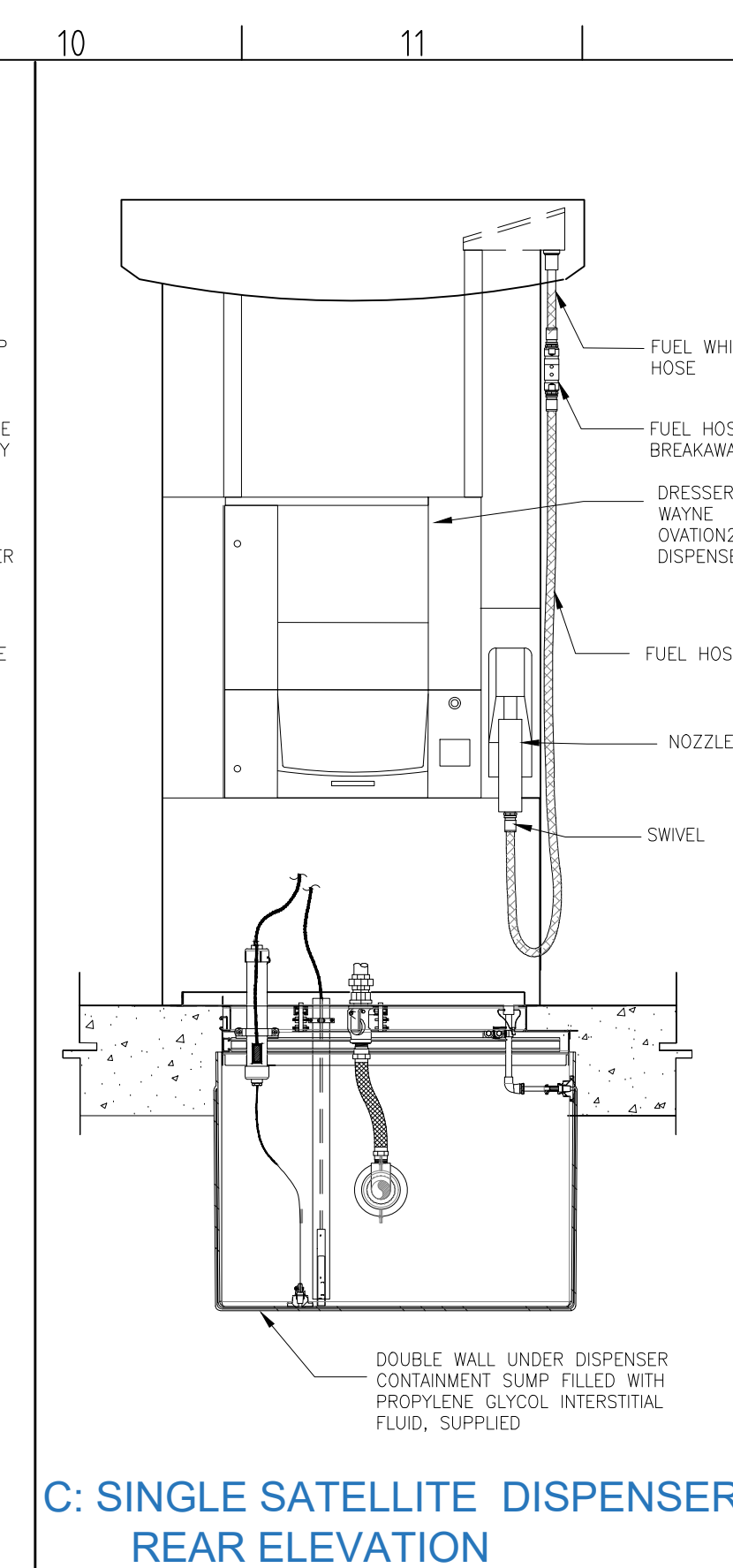
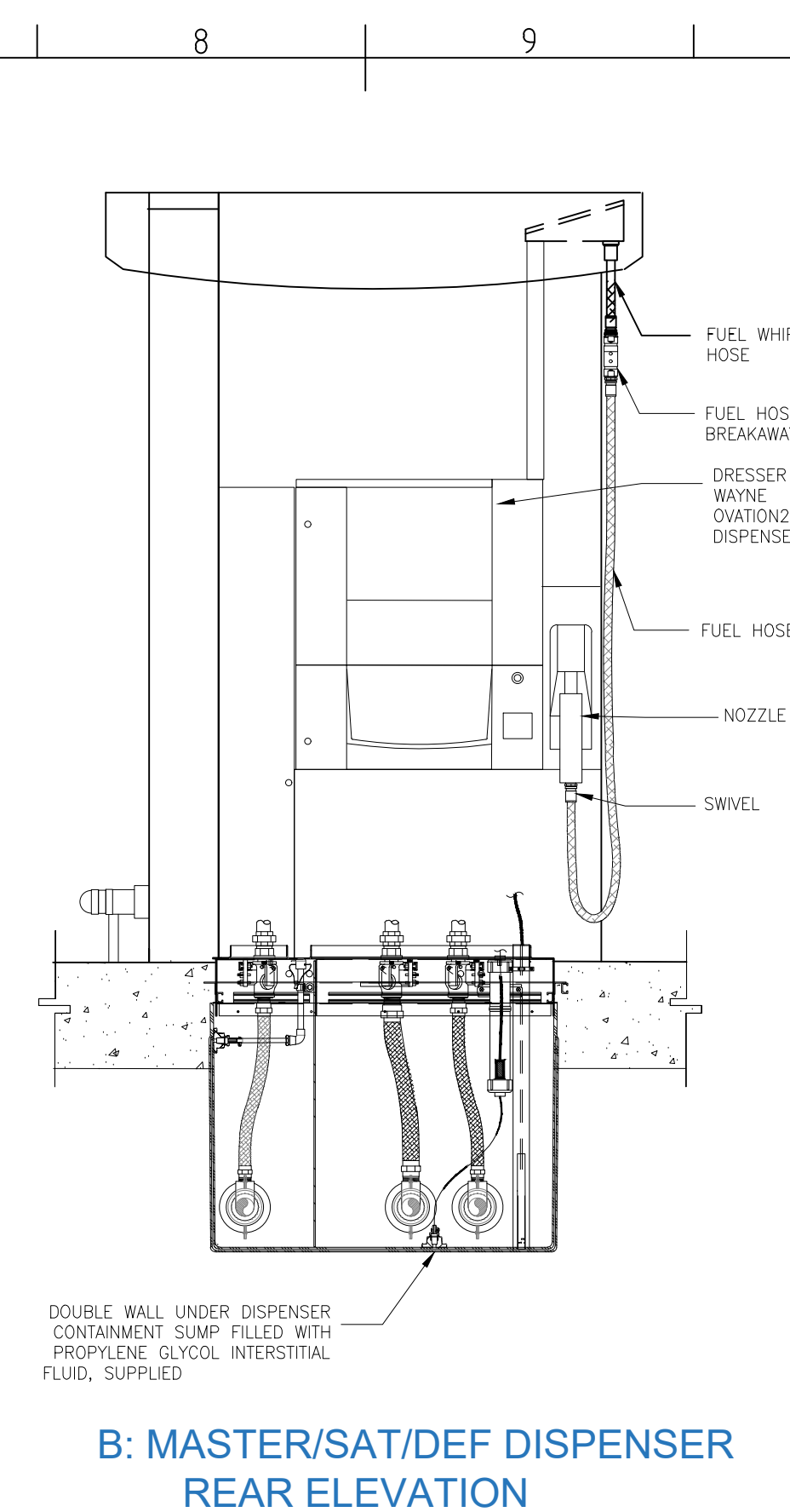
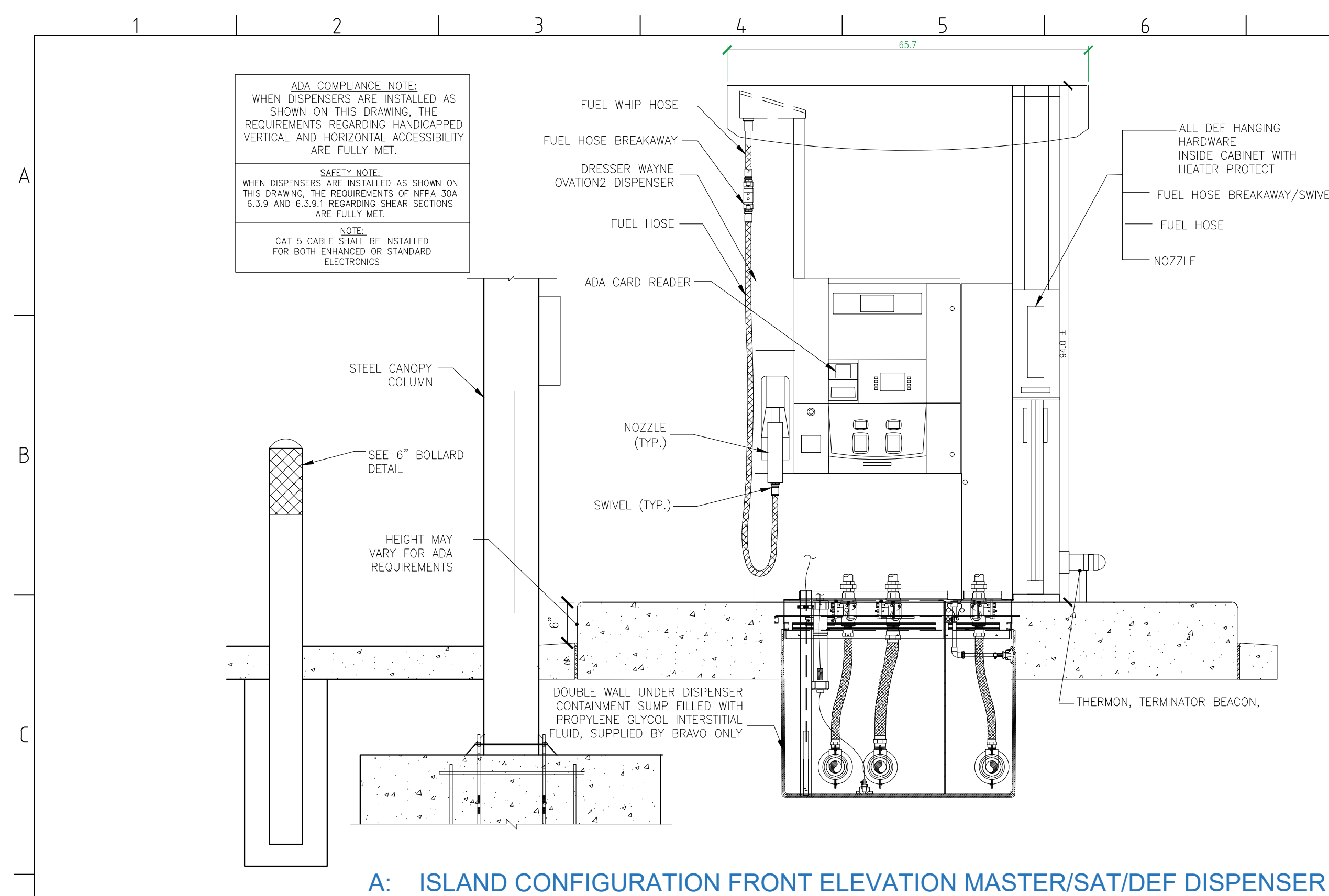
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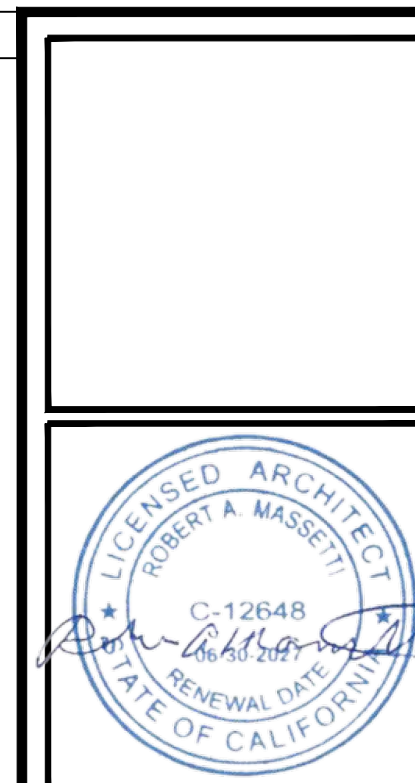
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RevNo	Revision note
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PROJECT DIRECTOR:
FARAH CHAUDHARY
PHONE: +1 (916) 793-4048
Farah@theboulevard.us


PROJECT MANAGER:
M HAMAYOON BAHEZ
+1 (916) 477-0102
hamayoon@theboulevard.us

ARCHITECT OF RECORD :

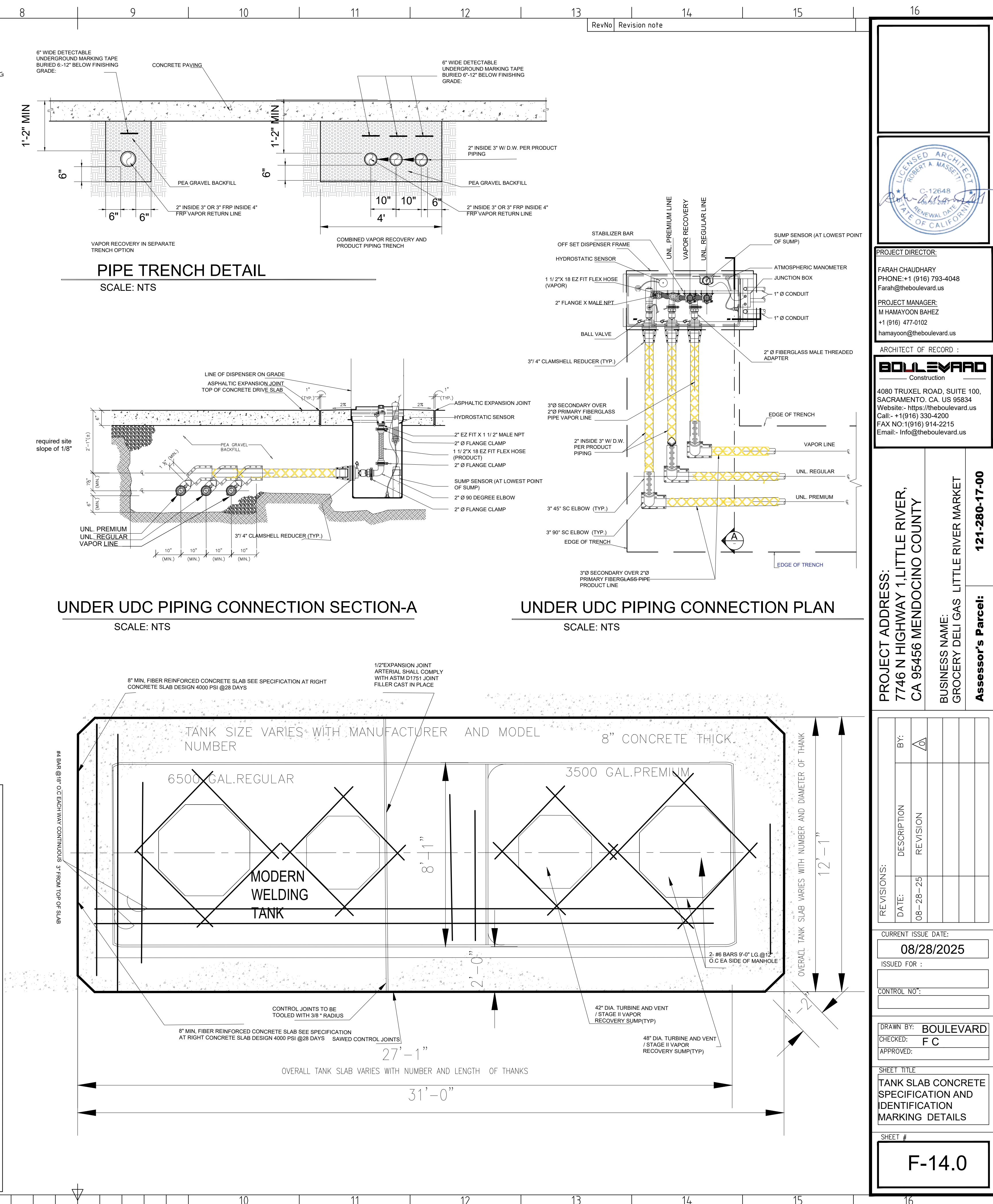
BOULEVARD
Construction

4080 TRUXEL ROAD, SUITE 100,
SACRAMENTO. CA. US 95834
Website:- <https://theboulevard.us>
Call:- +1(916) 330-4200
FAX NO:1(916) 914-2215
Email:- Info@theboulevard.us


PROJECT ADDRESS: 7746 N HIGHWAY 1 LITTLE RIVER, CA 95456 MENDOCINO COUNTY	BUSINESS NAME: GROCERY DELI GAS LITTLE RIVER MARKET	Assessor's Parcel: 121-280-17-00
--	---	--

REVISIONS:			BY:
DATE:	DESCRIPTION		
08-28-25	REVISION		

CURRENT ISSUE DATE:	
08/28/2025	
ISSUED FOR :	
CONTROL NO.:	
DRAWN BY:	BOULEVARD
CHECKED:	F C
APPROVED:	
SHEET TITLE	
INSTALLATION OF DETAIL (3+0) DISPENSER	
SHEET #	
F-12.0	



PROJECT ADDRESS: 7746 N HIGHWAY 1 LITTLE RIVER, CA 95456 MENDOCINO COUNTY	BUSINESS NAME: GROCERY DELI GAS	LITTLE RIVER MARKET	121-280-17-00
		Assessor's Parcel:	

REVISIONS:			
DATE:	DESCRIPTION	BY:	
08-28-25	REVISION		

CURRENT ISSUE DATE:	
08/28/2025	
ISSUED FOR :	
CONTROL NO.:	
DRAWN BY:	BOULEVARD
CHECKED:	FC
APPROVED:	
SHEET TITLE	
TANK SLAB CONCRETE SPECIFICATION AND IDENTIFICATION MARKING DETAILS	

SHEET #

F-14.0

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Revision note

GENERAL NOTES & SPECS.

1. General Contractor shall obtain all building permits.

2. All work shall conform to the requirements of the Uniform Building Code, 2022 Edition, with amendments and applicable requirements for local and state codes, ordinances and regulations for the proposed construction.

3. Contractor shall verify the conditions of the site and report all discrepancies to the Architect before proceeding with the work.

4. Light fixtures shall be supported independent of suspended ceiling construction.

5. Unless otherwise shown or noted, typical details and general notes shall be used whenever applicable.

6. The contractor shall furnish and be responsible for all barricades, adequate shoring, bracing and protective measures to safely execute the work.

7. Patch, repair, and refurbish all existing surfaces and finishes damaged by this work, to match adjacent surfaces and finishes.

8. CLEANING AND PROTECTION

General: During handling and installation of work at project site, clean and protect work in progress and adjoining work on a basis of perpetual maintenance. Apply suitable protective covering on newly installed work where reasonably required to ensure freedom from damage or deterioration at time of substantial completion: otherwise; clean and perform maintenance on newly installed work as frequently as necessary through remainder of construction period Adjust and lubricate operable components to ensure operability without damaging effects. Upon completion of work, project site to be cleaned ready for occupancy.

9. Contractor to provide trenching as required to accommodate underground utilities.

10. Where new openings are indicated at existing wall panel, sawcut and remove, patch and repair as required to accommodate same.

11. Where new curbed roof openings and penetrations ocur through existing roof, patch and repair roof as required to provide a watertight condition in accordanc to the roof manufacturer's guarantee. Contractor shall notify the Owner and Architect before proceeding with the work.

12 All penetrations through 1-hour fire resistive construction shall be protected by an approved fire assembly.

13 Where new overhead door(s), storefronts and/or exit doors are indicated, color, material and manufacturer to match existing.

14.All doors, hardware and tollet facilities shall comply with handicap requirements.

15. Separate permit is required for retaining walls, signs swimming poo

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES:

The following are intended as an attachment to construction plans and grading and represent minimum standards of good housekeeping to be implemented on all construction sites regardless of size.

- Eroded sediments and other contaminants must be contained on site and cannot be transported off site via drains, area drains, or natural drainage courses.

- Stockpiles of soil and other construction materials must be protected from being transported off site by wind or water

-Fuels, oils, solvents and other toxic substances must be stored according to their listing and are not to contaminate the soil and surface waters. All approved storage containers must be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.

-Excess or waste concrete may not be washed into public roads or any other drainage system. Provisions should be made for on-site storage of concrete waste until it is disposed of as solid waste.

- Trash and construction debris should be placed in a covered container to prevent rainwater and dispersal by wind.

- Sediments and other materials cannot be tracked from the site by vehicular traffic. The entranceways of the building should be stabilized in such a way as to prevent the deposition of sediments on the public roads. Accidental deposits should be swept up immediately and should not be washed away by rain or other means.

-Any slope with disturbed or vegetated soils should be stabilized to prevent wind and watererosion.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	A	AMPS
U.O.N.	UNLESS OTHERWISE NOTED	GFI	GROUND FAULT INTERRUPTER
C.O.	CONDUIT ONLY W/PULL ROPE	GND.	GROUND
W.P.	WEATHER PROOF	V.L.	VERIFY LOCATION
CU.	COPPER	A.C.	ABOVE COUNTER
M.L.O.	MAIN LUGS ONLY	N.L.	NIGHT LIGHT
A.F.G.	ABOVE FINISH GRADE	EM.	EMERGENCY

ELECTRICAL SYMBOLS LIST

SURFACE WALL MTD. FLUORESCENT LIGHTING FIXTURE.

SURFACE MOUNTED FLUORESCENT MODULAR TYPE LIGHTING FIXTURE. EM AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK. NL INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED FLUORESCENT LIGHTING FIXTURE. EM AND/OR SHADED CONNECTION POINTS INDICATES FIXTURE WITH EMERGENCY BATTERY PACK. NL INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT.

RECESSED OR SURFACED MOUNTED DOWN LIGHTING FIXTURE.

WALL MOUNTED H.I.D. WALL PACK LIGHTING FIXTURE.

ILLUMINATED EXIT SIGN WITH NUMBER OF FACES AND DIRECTION OF EGRESS ARROWS AS INDICATED.

STANDARD 20A, 120/277V-1~ SPST TOGGLE SWITCH MOUNTED AT +48" A.F.F.-U.O.N.

a,b – DENOTES TWO SWITCHES AND THIER RESPECTIVE CONTROL IDENTIFICATION.

SMD WALL MOUNTED LIGHT SENSOR WITH ADJUSTABLE TIME DELAY OFF SETTING.

STANDARD 20A, 120V-1~ GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED AT +15" A.F.F. – U.O.N.

SPECIAL RECEPTACLE MOUNTED AT +15" A.F.F. – U.O.N.. AMPS – VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.

STANDARD 20A, 120V-1~ ISOLATED GROUND TYPE FOURPLEX RECEPTACLE MOUNTED AT +15" A.F.F. – U.O.N.

115 VOLT QUADRUPLX DEDICATED POWER FOR P.O.S.

208 VOLT SINGLE CONV OUTLET

VAPOR PROOF LIGHT FIXTURE

FLEX CONNECTION

HEATING ELEMENT

FUSED DISCONNECT SWITCH. AMPS – VOLTS & POLES AS INDICATED ON PLANS.

MANUAL MOTOR STARTER SWITCH. RATED @ 1H.P. MIN-120V – 1~ –U.O.N. PROVIDE COMPLETE WITH THERMAL OVERLOAD PROTECTION.

JUNCTION BOX. SIZED BY THIS CONTRACTOR PER ACTUAL NUMBER OF CONDUITS AND / OR CONDUCTORS PASSING THRU.

MOTOR OUTLET. H.P. OR F.L.A. – VOLTS & PHASE AS INDICATED. VERIFY ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS WITH INSTALLED EQUIPMENT MFR. PRIOR TO ANY ROUGH-IN WORK.

BRANCH CIRCUIT PANELBOARD. FLUSH OR SURFACE MTD. AS INDICATED.

TELEPHONE PLYWOOD BACKBOARD.

THERMOSTAT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE J-BOX AT +72" A.F.F. – U.O.N.. PROVIDE 1/2" C.O. TO ASSOCIATED HVAC UNIT.

TELEPHONE OUTLET MOUNTED AT +15" A.F.F. – U.O.N.. PROVIDE 3/4" C.O. TO MAIN TELEPHONE BACKBOARD OR AS INDICATED ON PLAN.

CONDUIT CONCEALED WITHIN BUILDING WALLS OR CEILING SPACE. TICK MARKS INDICATE QUANTITY OF #12 THN / THWN CONDUCTORS – U.O.N.. CONDUIT SHOWN WITH NO TICK MARKS INDICATE 2 #12 THN / THWN CONDUCTORS – U.O.N.. CONDUIT SHALL BE 3/4" MINIMUM – U.O.N..

CONDUIT ROUTED BELOW FINISHED GRADE AND / OR CONCRETE SLAB. TICK MARKS INDICATE QUANTITY OF #12 THN / THWN CONDUCTORS – U.O.N.. CONDUITS SHOWN WITH NO TICK MARKS INDICATE 2 #12 THN / THWN CONDUCTORS – U.O.N.. CONDUIT SHALL BE 3/4" MINIMUM – U.O.N.. INCLUDE CODE SIZED COPPER BOND CONDUCTOR (NOT SHOWN ON PLAN) IN ALL NON-METALLIC CONDUIT RUNS.

CIRCUIT CONDUCTORS WITH ISOLATED GROUND.

HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE.

INDICATES CONDUIT DROP WITHIN BUILDING WALL. REFER TO CONDUIT SYMBOL ABOVE.

INDICATES CONDUIT RISER WITHIN BUILDING WALL. REFER TO CONDUIT SYMBOL ABOVE.

FIRE ALARM DUCT SMOKE DETECTOR

REMOTE PULL STATION FOR ANSUL SYSTEM.

LIGHTING FIXTURE DESIGNATION

MCB

MAIN CIRCUIT BREAKER

DETAIL REFERENCE

FLA

FULL LOAD AMPS

KEYNOTE REFERENCE

C.

CONDUIT

KITCHEN EQUIPMENT DESIGNATION

V.

VOLTS

PROJECT ADDRESS:
7746 N HIGHWAY 1,LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS

Assessor's Parcel:
121-280-17-00

REVIEWS:

DATE:

DESCRIPTION

BY:

CURRENT ISSUE DATE:

09/08/2025

ISSUED FOR :

CONTROL NO*:

DRAWN BY: BOULEVARD

CHECKED: F C

APPROVED:

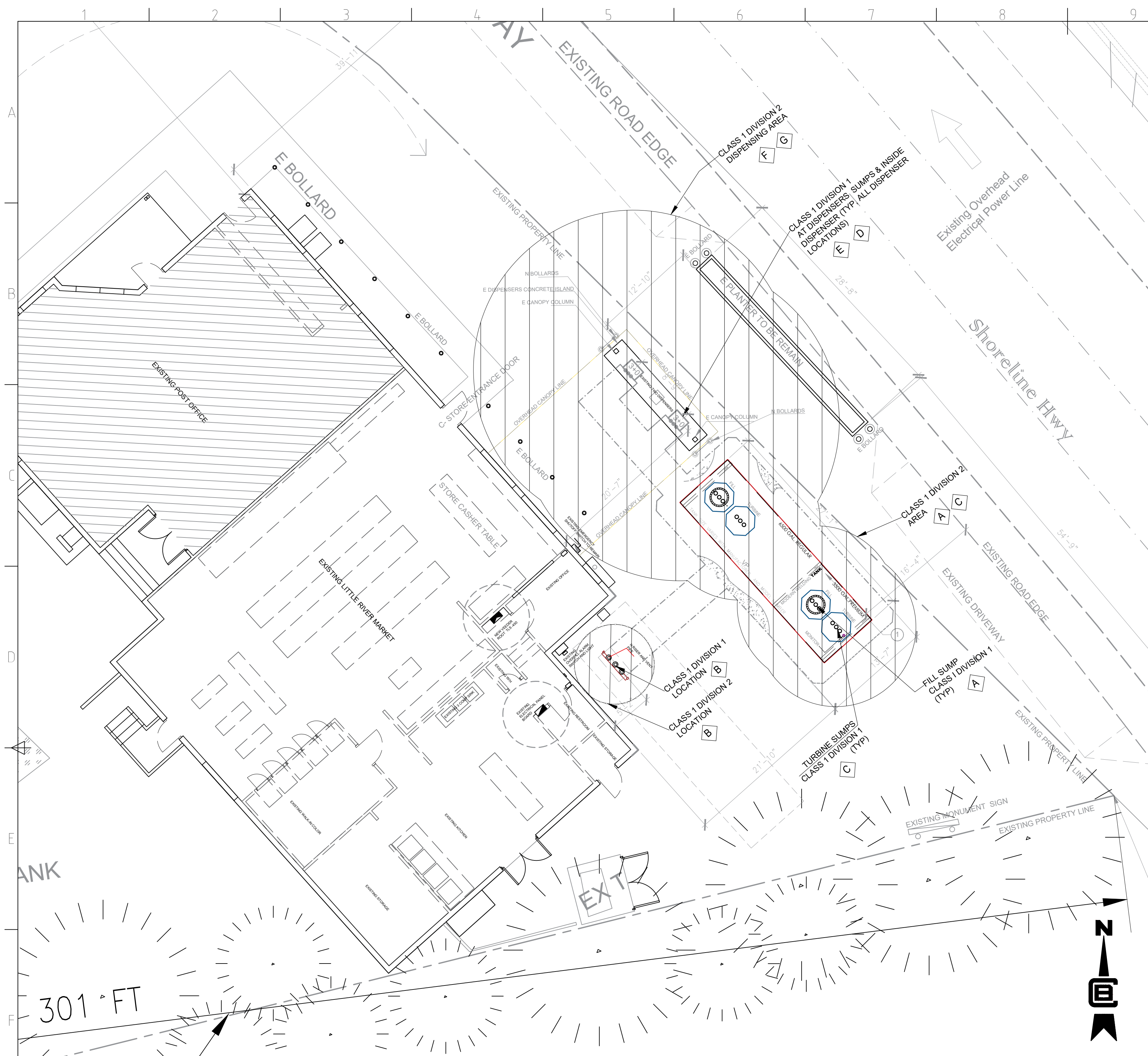
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ELECTRICAL GENERAL NOTES

SHEET #

ED-1.0

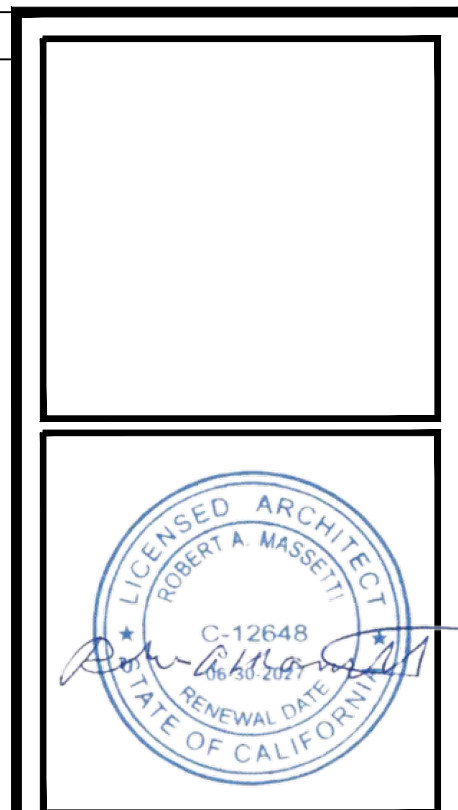
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CLASS 1, DIVISION 1 AND 2 HAZARDOUS AREA PLAN
scale: 1/8"=1'-0"

C.E.C. HAZARDOUS AREA NOTES

- A** TYPICAL C.E.C ARTICLE 514 & TABLE 514.3(B)(1), 2022 C.E.C. CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION :
ANY PT. 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" 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 C.E.C ARTICLE 514 & TABLE 514.3(B)(1), 2022 C.E.C. CLASS 1 LOCATION (UNDERGROUND TANK - VENT- DISCHARGING UPWARD)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION :
WITHIN 1.5 M (5 FT) OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
BETWEEN 1.5 M AND 3 M (5 FT AND 10 FT) FROM OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS
- C** TYPICAL C.E.C ARTICLE 514 & TABLE 514.3(B)(1), 2022 C.E.C. CLASS 1 LOCATION (REMOTE PUMP-OUTDOOR)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION :
ANY PT. BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FT. 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 DIRECTIONS. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.
- D** TYPICAL C.E.C ARTICLE 514 & TABLE 514.3(B)(1), 2022 C.E.C. CLASS 1 LOCATION (DISPENSING DEVICE - PITS)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION :
ANY PT. BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.
- E** TYPICAL C.E.C ARTICLE 514 & TABLE 514.3(B)(1), 2022 C.E.C. CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION :
SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSIUL 87, *POWER OPERATED DISPENSING DEVICES FOR THE PETROLEUM PRODUCTS.
- F** TYPICAL C.E.C ARTICLE 514 & TABLE 514.3(B)(1), 2022 C.E.C. 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.
- G** TYPICAL C.E.C ARTICLE 514 CLASS & TABLE 514.3(B)(1), 2022 C.E.C. 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.



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ARCHITECT OF RECORD :

BOULEVARD
Construction

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Email:- info@theboulevard.us

PROJECT ADDRESS:
7746 N HIGHWAY 1, LITTLE RIVER,
CA 95456 MENDOCINO COUNTY

BUSINESS NAME:
GROCERY DELI GAS LITTLE RIVER MARKET

Assessor's Parcel: 121-280-17-00

REVISIONS:		DESCRIPTION	BY:
DATE:			

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SHEET TITLE

CLASS 1, DIVISION 1 AND 2
HAZARDOUS AREA PLAN

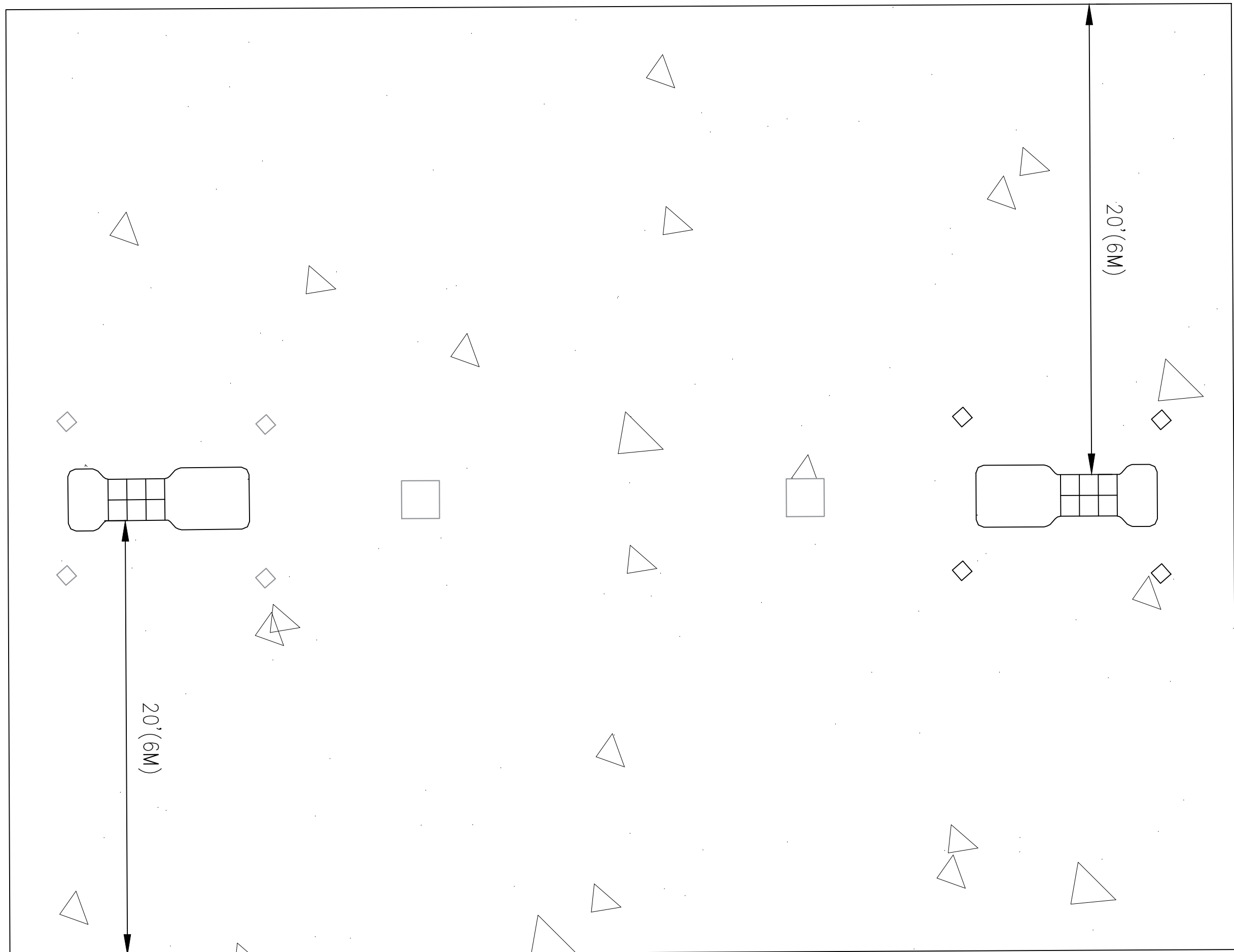
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E-2.0

RevNo	Revision note
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CONNECTED LOAD PER PHASE			16.5	16.0	
LOAD SUMMARY			CONN KVA	DEMAND KVA	DEMAND FACTOR
TYPE "L" CONTINUES LOAD	2.4	125%	3.0		
TYPE "R" RECEPTACLE (FIRST 10KVA)	28.5	100%	28.5		
TYPE "R" RECEPTACLE (OVER 10KVA)		50%			
TYPE "M" MISCELLANEOUS LOAD	1.0	100%	1.0		
TYPE "A" AC LOADS		100%			
TYPE "K" KITCHEN LOADS		65%			
TOTAL LOADS	31.9		32.5		
				DEMAND AMPS	CONNECTED LOAD
				90.21	88.55

120/208
2PHASE,
3WIRES



Rigid nonmetallic conduits shall be permitted where buried under not less than 600 mm (2ft.) of cover. Where entering rigid nonmetallic conduit is used and threaded rigid metal conduit or threaded steel intermediate metal conduit shall be used for the last 600 mm (2ft.) of the underground run to the emergence or to the point of connection to the above-grade raceway, and an equipment grounding conductor shall be included to provide electrical continuity of the raceway system and for grounding of non-current-carrying metal parts.

SHEET #

E-3.0

State Water Resources Control Board

July 9, 2025

Dear RUST Applicant:

Pursuant to Health and Safety Code, chapter 6.7, section 25292.05, all single-walled underground storage tanks (USTs) and nonexempt single-walled piping (SWTs) must be permanently closed by December 31, 2025. There are no exceptions. To assist small business owners and operators in complying with the approaching deadline, the 2025/2026 California Budget Public Resources Trailer Bill (SB124) amended the Health and Safety Code statutes for the Replacing, Removing, or Upgrading Underground Storage Tanks (RUST) Program to allow eligible RUST applicants to begin their projects now, without waiting for a RUST agreement, and receive RUST funding for those costs after execution of a RUST agreement.

The statutory change allows applicants who submitted their applications on or before June 30, 2025, to begin their project; while waiting for RUST Program approval and funding, and to receive funding for those costs once the RUST agreement is executed, so long as the applicant removes all SWTs at the facility on or before December 31, 2025.

Eligible costs incurred prior to a RUST agreement execution are limited to the following costs:

- 1) Costs to remove SWTs incurred by the applicant on or after December 31, 2024 and before January 1, 2026; and
- 2) Costs to replace SWTs incurred by the applicant on or after December 31, 2024 and before January 1, 2027.

What does this mean for you and your project?

The RUST Program received your application on or before June 30, 2025. If you begin your project immediately and your application is approved, you may be reimbursed for costs incurred before your RUST agreement execution will be available for reimbursement subject to the above limitations. Your application must still meet all RUST Program eligibility requirements before being fully approved. **Before beginning your project, it is important you understand RUST eligibility requirements and the timeline for RUST funding below and ensure you are able to proceed with the project while waiting for RUST funding.**

When will you receive funding?

The RUST Program currently is awaiting funding for fiscal year 2025/2026 to be released for use. It is anticipated that this funding will become available for use in late August 2025. At that time, the RUST Program will begin preparing funding and agreement documentation for those RUST applicants who have been conditionally approved for a RUST loan and/or grant. These RUST agreements will likely be sent out for execution during the month of September 2025. Once the RUST agreement is fully executed, RUST recipients may immediately request reimbursement for costs incurred. Due to processing timelines of both the State Water Resources Control Board's Accounting Office and State Controller's Office, payments are typically sent to recipients six to eight weeks after the RUST Program receives a Reimbursement Request. In light of the number of conditionally approved applications awaiting execution and the expected amount of Reimbursement Requests to be received, recipients likely will not receive funding before December of 2025. Applicants who do not receive conditional approval prior to August should not expect to receive funding before January of 2026. **It is important for RUST recipients to be aware of the funding timelines when considering when to begin their project. RUST recipients who begin their RUST project before agreement execution should work with their contractors and/or material suppliers and/or secure other short term funding options while they wait for RUST reimbursement.**

What will be required when submitting a Reimbursement Request?

- 1) All costs being requested for reimbursement must have a corresponding invoice from the contractor or equipment supplier referenced in your RUST agreement of costs that have been incurred. (Please review your RUST agreement thoroughly to ensure the invoices being submitted match the original proposals approved and referenced in the RUST agreement);
- 2) Copies of all permits required to complete the project (e.g. UST Permit to Install/Construct, Air Quality Management District Authority to Construct);
- 3) Copies of the signed contract executed with your contractor and equipment vendor; and
- 4) Complete and signed "Request for Reimbursement" (SWRCB 140) form

If you have questions regarding this statutory change and how it affects your RUST application and project, please email RUST@waterboards.ca.gov.

Sincerely,



McLean Reich
RUST, EAR and Reporting Section Manager

devices found to be not performing in conformance with the manufacturer's leak detection specifications shall be promptly repaired or replaced.

- (5) For monitoring underground tank systems that are located on farms and that store motor vehicle or heating fuels used primarily for agricultural purposes, alternative monitoring methods include the following:
- (a) If the tank has a capacity of greater than 1,100 gallons but of 5,000 gallons or less, the tank shall be tested using the tank integrity test, at least once every three years, and the owner or operator shall utilize tank gauging on a monthly or more frequent basis, as required by the local agency, subject to the specifications provided in paragraph (7) of subdivision (c) of Section 2641 of Title 23 of the California Code of Regulations, as that section read on August 13, 1985.
 - (b) If the tank has a capacity of more than 5,000 gallons, the tank shall be monitored pursuant to the methods for all other tanks specified in this subdivision.
 - (c) The board shall develop regulations specifying monitoring alternatives. The local agency, or any other public agency specified by the local agency, shall approve the location and number of wells, the depth of wells, and the sampling frequency, pursuant to these regulations.
 - (d) On or before December 22, 1998, the underground storage tank shall be replaced or upgraded to prevent releases due to corrosion or spills or overfills for the underground storage tank's operating life.
 - (e) (1) All existing underground pressurized piping shall be equipped with an automatic line leak detector on or before December 22, 1990, and shall be retrofitted with secondary containment on or before December 22, 1998. Underground pressurized piping shall be tightness tested annually.
 - (2) Paragraph (1) does not apply to existing pressurized piping containing motor vehicle fuel, if the pipeline is constructed of glass fiber reinforced plastic, cathodically protected steel, or steel clad with glass fiber reinforced plastic, is equipped with an automatic line leak detector, and is tightness tested annually.

§ 25292.05. Permanent Closure of Single-Walled Underground Storage Tanks

- (a) On or before December 31, 2025, the owner or operator of an underground storage tank shall permanently close that underground storage tank in accordance with Section 25298

and the regulations adopted pursuant to that section, if the underground storage tank meets either of the following conditions:

- (1) The underground storage tank is designed and constructed in accordance with paragraph (7) of subdivision (a) of Section 25291 and does not meet the requirements of paragraphs (1) to (6), inclusive, of subdivision (a) of Section 25291.
 - (2) The underground storage tank was installed on or before January 1, 1984, and does not meet the requirements of paragraphs (1) to (6), inclusive, of subdivision (a) of Section 25291.
- (b) Notwithstanding subdivision (a), the board may adopt regulations to require the owner or operator of an underground storage tank to permanently close that underground storage tank before December 31, 2025, in accordance with Section 25298 and the regulations adopted pursuant to that section, if the underground storage tank meets the conditions specified in either paragraph (1) or (2) of subdivision (a) and the underground storage tank poses a high threat to water quality or public health. The board shall consult with stakeholders before adopting regulations pursuant to this subdivision.

§ 25292.1. Underground Tank Systems; Operations Requirements

All underground tank systems shall meet the following operational requirements:

- (a) The underground tank system shall be operated to prevent unauthorized releases, including spills and overfills, during the operating life of the tank, including during gauging, sampling, and testing for the integrity of the tank.
- (b) Where equipped with cathodic protection, the underground tank system shall be operated by a person with sufficient training and experience in preventing corrosion.
- (c) The underground tank system shall be structurally sound at the time of upgrade or repair.

§ 25292.2. Evidence of Financial Responsibility

- (a) All owners and operators of an underground tank system shall maintain evidence of financial responsibility for taking corrective action and for compensating third parties for bodily injury and property damage caused by a release from the underground tank system, in accordance with regulations adopted by the board pursuant to Section 25299.3. The regulations shall include a schedule that requires that financial responsibility requirements are phased-in for all underground storage tank systems on or before October 26, 1990.
- (b) If the owner and the operator are separate persons, either the owner or the operator shall demonstrate compliance with subdivision (a).

§ 25298. Abandonment, Closing, or Temporary Ceasing of Operation of Underground Storage Tank

- (a) No person shall abandon an underground tank system or close or temporarily cease operating an underground tank system, except as provided in this section.
- (b) An underground tank system that is temporarily taken out of service, but which the owner or operator intends to return to use, shall continue to be subject to all the permit, inspection, and monitoring requirements of this chapter and all applicable regulations adopted by the board pursuant to Section 25299.3, unless the owner or operator complies with subdivision (c) for the period of time the underground tank system is not in use.
- (c) No person shall close an underground tank system unless the person undertakes all of the following actions:
 - (1) Demonstrates to the local agency that all residual amounts of the hazardous substance or hazardous substances which were stored in the tank system prior to its closure have been removed, properly disposed of, and neutralized.
 - (2) Adequately seals the tank system to minimize any threat to the public safety and the possibility of water intrusion into, or runoff from, the tank system.
 - (3) Provides for, and carries out, the maintenance of the tank system as the local agency determines is necessary for the period of time the local agency requires.
 - (4) Demonstrates to the appropriate agency, which has jurisdiction over the site, that the site has been investigated to determine if there are any present, or were past, releases, and if so, that appropriate corrective or remedial actions have been taken.

§ 25298.5. Analysis Required to be Performed by Accredited Laboratories

The analysis of any material that is required to demonstrate compliance with this chapter or Chapter 6.75 (commencing with Section 25299.10) shall be performed by a laboratory accredited by the department pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101.

§ 25299. Violations, Civil and Criminal Penalties

- (a) An operator of an underground tank system is liable for a civil penalty of not less than five hundred dollars (\$500) or more than five thousand dollars (\$5,000) for each underground storage tank, for each day of violation, for any of the following violations: