

CODE COMPLIANCE

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

ALL IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2021 INTERNATIONAL BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24, C.C.R. (2020 NATIONAL ELECTRIC CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ENERGY CODE (CENC), PART 6, TITLE 24, C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
- 2022 TITLE 19, C.C.R., REGULATIONS OF THE STATE FIRE MARSHAL
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.

FIRE SAFETY INFORMATION

Project will comply with 2022 California Fire Code

GENERAL CONTRACTOR AND SUBCONTRACTORS TO COMPLY WITH CFC CHAPTER 33 FOR SAFEGUARDS DURING CONSTRUCTION:

- Smoking shall be prohibited except in designated areas with approved ashtrays. All other areas must have "No Smoking" signage posted around construction areas in accordance with CFC§310. [CFC§3304.1]
- Combustible debris shall not be allowed to accumulate within building. Combustible debris, rubbish and waste material shall be removed from building at the end of each shift of work. [CFC §3304.2]
- Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container. [CFC §3304.2.4]
- Operations involving the use of cutting and welding shall be done in accordance with Chapter 35. [CFC §3304.6]
- During construction, the construction site or area must be thoroughly cleaned at the end of each work day in order to provide firefighter access in the building in an event of a fire.
- SEE ADDITIONAL FIRE SAFETY INFORMATION AND WORK PLAN ON SHEET A1.01

DEFERRED SUBMITTALS

- Fire Department Operation Permit

PROJECT SUMMARY

THE PROJECT SCOPE INCLUDES THE INSTALLATION OF A NEW, 10,000-GALLON ABOVE-GROUND, DOUBLE-WALLED BIODIESEL STORAGE TANK WITH ASSOCIATED DISPENSERS, PIPING, CONCRETE SLAB, ASPHALT, AND ELECTRICAL WORK AT THE CITY OF BERKELEY TRANSFER STATION LOCATED AT 1201 SECOND STREET IN BERKELEY, CALIFORNIA.

CONTRACTOR WILL BE RESPONSIBLE FOR PREPPING ALL AREAS FOR NEW SCOPE OF WORK INCLUDING PATCHING AND REPAIRING EXISTING CONDITIONS WHERE AFFECTED BY ANY AND ALL DEMOLITION WORK.

THE WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICES, PERMITS, TEMPORARY CONTROLS AND CONSTRUCTION FACILITIES, AND ALL GENERAL CONDITIONS, SEISMIC REQUIREMENTS, GENERAL REQUIREMENTS AND INCIDENTALS REQUIRED TO COMPLETE THE WORK ON THE PROJECT IN ITS ENTIRETY AS DESCRIBED IN THE CONTRACT DOCUMENTS.

Transfer Station: Above Ground Storage Tank

1201 Second Street
Berkeley, CA 94710
Bid Set - 10/21/2025

City of Berkeley

NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201



Date signed: 06/06/2025

APPROVALS

PROJECT TITLE

City of Berkeley
Transfer Station:
Above Ground
Storage Tank

1201 Second Street
Berkeley, CA 94710

Bid Set

ISSUE DATE 10/21/2025

N&T JOB NUMBER 22507

REVISIONS	DATE	DESCRIPTION
△	07/11/2025	PLAN CHECK COMMENTS

SHEET TITLE

COVER SHEET

SHEET NUMBER

G0.00

LOCAL STREET MAP



PROJECT LOCATION
1201
Second Street
Berkeley, CA

PROJECT LOCATION



PROJECT LOCATION

Cost Estimator

Micro Estimating, Inc.
850 South Van Ness Ave.
San Francisco CA 94110
Tel: (925) 989-5556

MEP

EDesignC Inc.
582 Market Street Suite 400
San Francisco CA 94104
Tel: (415) 963-4303

Structural

IDA Structural Engineers Inc.
1629 Telegraph Avenue
Suite 300
Oakland CA 94612-2114
Tel: (510) 834-1629

Architect

Noll & Tam Architects
729 Heinz Ave
Berkeley, CA 94710
Tel: 510.542.2200
Fax: 510.542.2201

Owner

City of Berkeley
1326 Allston Way
Tel: 510.981.6629



Date signed: 06/06/2025

SEAL

APPROVALS

PROJECT TITLE

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Storage Tank**

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SHEET TITLE
GENERAL NOTES / SHEET INDEX

SHEET NUMBER

G0.01

SHEET INDEX

GENERAL

G0.00 COVER SHEET
G0.01 GENERAL NOTES / SHEET INDEX
G1.31 CODE OCCUPANCY & EXIT PLANS
3

STRUCTURAL

S1.00 GENERAL NOTES AND SITE MAP
S2.01 STRUCTURAL PLANS
S5.01 TYPICAL CONCRETE DETAILS
3

PLUMBING

P0.00 PLUMBING COVER SHEET
P0.01 PLUMBING SCHEDULE
P2.00 PLUMBING DEMOLITION SITE PLAN
P2.10 PLUMBING PROPOSED SITE PLAN
4

ELECTRICAL

E0.00 ELECTRICAL COVER SHEET
E0.10 ELECTRICAL PROPOSED PLAN
2

TOTAL SHEETS: 12

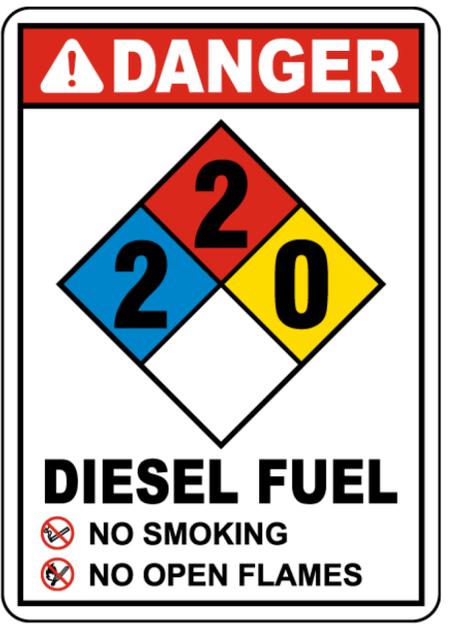
GENERAL NOTES

1. WORK SHALL MEET OR EXCEED THE MINIMUM STANDARDS OF APPLICABLE CODES AND ORDINANCES AND SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THOSE CODES.
2. CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
3. VERIFY ALL DIMENSIONS AND INSPECT CONDITION OF IN-PLACE CONSTRUCTION BEFORE STARTING WORK. PROCEEDING WITH THE WORK SHALL CONSTITUTE ACCEPTANCE OF CONDITIONS.
4. CONTRACTOR SHALL EXAMINE THE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
5. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO VISIT AND INSPECT THE SITE PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.
6. ITEMS MARKED "NIC" ARE NOT IN CONTRACT. SUCH ITEMS ARE INCLUDED IN THE DOCUMENTS WHEN CONTRACTOR'S COORDINATION IS REQUIRED OR FOR CLARIFICATION OF PROJECT LIMITS.
7. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL SIMILAR CASES, UON.
8. DIMENSIONS
 - a. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM THE DRAWINGS.
 - b. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - c. ELEVATION MARKERS REFER TO THE TOP OF THE SLAB ON GRADE DATUM.
 - d. ALL DIMENSIONS NOTED "CLEAR" OR "CLR" INDICATE DIMENSION FROM FACE OF FINISH TO FACE OF FINISH OR OBJECT, UON AND MUST BE STRICTLY MAINTAINED.
 - e. ALL DIMENSIONS NOTED "VERIFY" OR "VIF" ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCE FROM THE REQUIRED DIMENSIONS MUST BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.
 - f. COORDINATE WITH EQUIPMENT CONTRACTORS FOR ROUGH-IN DIMENSIONS AND TEMPLATES.
9. EXISTING SITE DOCUMENTATION IS BASED ON CASUAL SITE OBSERVATION INVESTIGATIONS. AS BUILT CONDITIONS MAY VARY. CONTRACTOR IS TO USE CAUTION IN DEMOLITION AND IS TO NOTIFY THE CITY OF BERKELEY, THE STRUCTURAL ENGINEER, AND THE ARCHITECT IMMEDIATELY IF ANY VARIATIONS OR DISCREPANCIES ARE UNCOVERED.
10. CONTRACTOR TO MAINTAIN SAFE & COMPLIANT EGRESS FROM OCCUPIED AREAS TO THE PUBLIC WAY OR TO SAFE DISPERSAL AREAS DURING CONSTRUCTION ACTIVITIES.
11. PROTECT EXISTING CONDITIONS TO REMAIN. CONFIRM W/ ARCHITECT AND/OR OWNER'S REPRESENTATIVE ITEMS TO BE SALVAGED PRIOR TO START OF DEMOLITION.
12. PROTECT ALL (E) BUILDING(S) & SITE INFRASTRUCTURE TO REMAIN.
13. THE DRAWINGS INDICATE THE GENERAL EXTENT OF CONSTRUCTION NECESSARY FOR THE WORK BUT ARE NOT INTENDED TO BE ALL-INCLUSIVE. ALL DEMO AND NEW WORK NECESSARY FOR A COMPLETED PROJECT IN ACCORDANCE W/ THE CONTRACT DOCUMENTS SHALL BE INCLUDED REGARDLESS OF WHETHER OR NOT SHOWN IN THE CONTRACT DOCUMENTS. THE INTEGRITY AND CONTINUITY OF ALL EXISTING FIRE AND OTHER TRANSFER STATION ASSEMBLIES IS TO BE STRICTLY MAINTAINED. SELECTIVE REMOVAL, REPLACEMENT, PATCHING & REPAIR SHALL BE PROVIDED TO MAINTAIN INTEGRITY OF EXISTING ASSEMBLIES AND FINISHES TO MATCH EXISTING ADJACENT ASSEMBLIES AND FINISHES.
14. PROVIDE TEMPORARY BARRIERS FOR SAFETY, SECURITY & CLEANLINESS



FIRETECH FG10 FIBERGLASS FIRE EXTINGUISHER CABINET
DIMENSIONS = 26 1/8" X 13 1/4" X 9 3/4" DEEP
WITH 10 LB ABC DRY CHEMICAL EXTINGUISHER
MOUNTING HEIGHT TO HANDLE = 48" MAX

4
G0.01
FIRE EXTINGUISHER
3" = 1'-0"



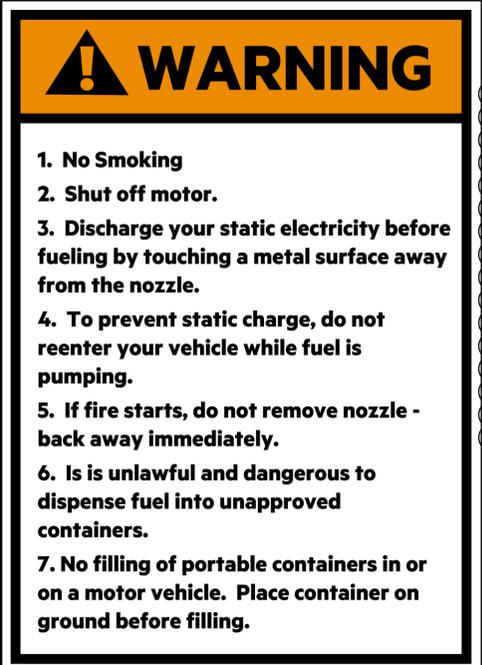
SIGN DIMENSIONS = 18" BY 24"
MATERIAL = RUST FREE ALUMINUM
THICKNESS = .040"

5
G0.01
NFPA 704 SIGN
3" = 1'-0"



SIGN DIMENSIONS = 18" BY 24"
MATERIAL = RUST FREE ALUMINUM
THICKNESS = .040"

1
G0.01
EMERGENCY PROCEDURES SIGN PER CFC 2304.3.5
3" = 1'-0"



INSTALLATION FOR ALL ALUMINUM SIGNS:

1. PRE-DRILL HOLES IN SIGNS AND CORRUGATED WALL MATERIAL
2. ATTACH WITH TAMPER-PROOF, STAINLESS STEEL FASTENERS AND SILICONE WASHERS AND SLEEVES
3. SEAL WITH WEATHERPROOF SILICONE
4. QUANTITY = (2) OF EACH SIGN MOUNTED AT EITHER END OF THE TANK ON WASH STATION WALL

ALUMINUM AND STEEL WILL HAVE A METALLURGICAL REACTION: SEAL ALL CONTACTS BETWEEN THE TWO METALS.

SIGN DIMENSIONS = 18" BY 24"
MATERIAL = RUST FREE ALUMINUM
THICKNESS = .040"

2
G0.01
FUEL DISPENSING SIGN PER CFC 2305.6
3" = 1'-0"



SIGN DIMENSIONS = 18" BY 24"
MATERIAL = RUST FREE ALUMINUM
THICKNESS = .040"

3
G0.01
EMERGENCY SHUT OFF SIGN
3" = 1'-0"

SEAL



Date signed: 06/06/2025

APPROVALS

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N&T JOB NUMBER **22507**

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SHEET TITLE

**CODE OCCUPANCY &
EXIT PLANS**

SHEET NUMBER

G1.31

**SEE 1/S2.01 FOR NEW SITE
PLAN INFORMATION**

ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A CONTINUOUS, BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX SLOPE, OR VERTICAL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 44" WIDE PER CBC SECTION 11B-403.5.1. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 1:20 UNLESS OTHERWISE INDICATED.

CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC.

NOTE THAT NO PUBLIC PEDESTRIAN ACCESS ALLOWED IN THE AREA OF NEW WORK



TRANSFER STATION
WAREHOUSE

SEE
2/G1.31
FOR ENLARGED SITE PLAN

TRANSFER STATION OFFICE

VEHICLE ACCESS AND EGRESS,
NO PUBLIC PEDESTRIAN
ACCESS ALLOWED IN
TRANSFER STATION AREA

ACCESSIBLE PATH OF TRAVEL
TO AREA OF NEW WORK

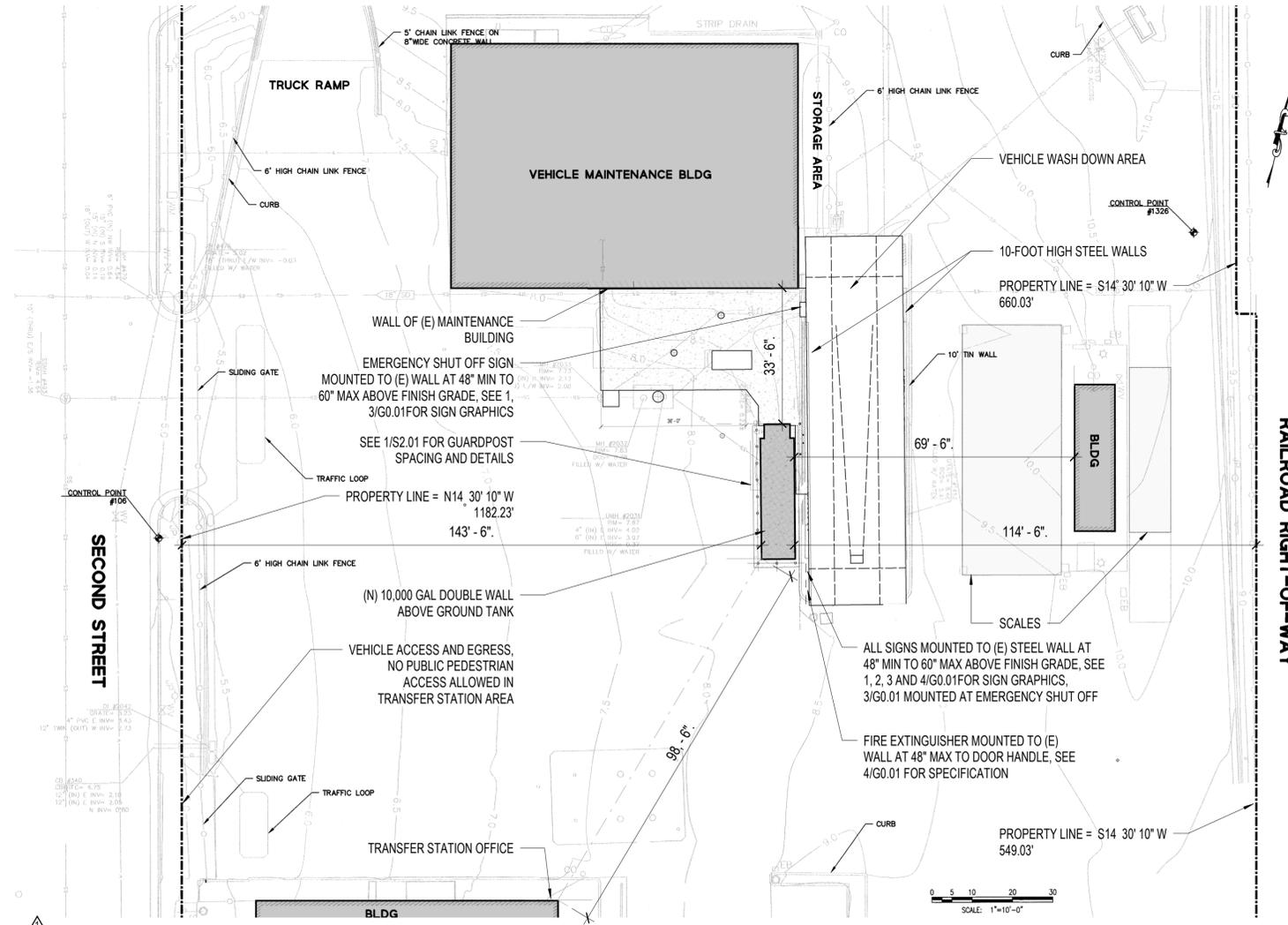
EXISTING VAN ACCESSIBLE
PARKING SPACE

RECYCLE CENTER OFFICE

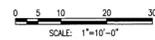
TRUCK ENTRY
ONLY

VEHICLE ENTRY
RECYCLE CENTER

PAPER SORTING AND
BAILING BUILDING



RAILROAD RIGHT-OF-WAY



2
G1.31
ENLARGED SITE PLAN
1" = 20'-0"

1
G1.31
SITE ACCESSIBILITY PLAN
1/64" = 1'-0"

- / -



STRUCTURAL ENGINEERS

1629 Telegraph Ave
Suite 300
Oakland, CA 94612
tel: 510.834.1629

ida-se.com



Signed on 07-11-2025

#	DESCRIPTION	DATE

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS.
- THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
- ALL WORK IS TO BE ASSUMED AS NEW UNLESS SPECIFICALLY STATED OTHERWISE.
- FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS. ALL DETAILS REFERENCED AND DETAILS NOT REFERENCED ON PLANS SHALL BE CONSIDERED TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS OF THE CONSTRUCTION.
- UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAIL" SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES".
- THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS ON TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
- IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES (OR SPECIFICATIONS), THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
- CONCRETE SLABS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
- FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES OR DRAWINGS.
- GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY. DO NOT SCALE DRAWINGS.

DESIGN CRITERIA

- VERTICAL LOADS:
 - A. DEAD LOADS:
 - SLAB DEAD LOAD: 163 PSF
- LIVE LOADS:
 - SLAB LIVE LOAD: 100 PSF + TANK
- WIND DESIGN LOADS - PER CBC SECTION 1609
 - BASIC WIND SPEED: 110 MPH
 - EXPOSURE CATEGORY: C
- SEISMIC DESIGN - PER CBC SECTION 1613
 - RISK CATEGORY: IV
 - SEISMIC DESIGN CATEGORY: D
 - SITE CLASS: D
 - FUNDAMENTAL PERIOD: T = 0.10 SECONDS
 - MAPPED SHORT PERIOD ACCELERATION: S_s = 1.94g
 - SITE COEFFICIENT: F_a = 1.2
 - DESIGN SHORT PERIOD ACCELERATION: S_{s1} = 1.57g
 - MAPPED ONE SECOND PERIOD ACCELERATION: S₁ = 0.74g
 - SITE COEFFICIENT: F_v = 1.7
 - DESIGN ONE SECOND ACCELERATION: S_{s1} = 1.28g
 - IMPORTANCE FACTOR: I = 1.5
 - SEISMIC RESPONSE COEFFICIENT (SDS/IR): C_s = NA
- ALLOWABLE SOIL PRESSURES:
 - DEAD LOAD: 2000 PSF
 - DEAD + LIVE LOADS: 2000 PSF
 - DEAD + LIVE + LATERAL LOADS: 2667 PSF

FOUNDATION NOTES

- THE SOIL REPORT APPLICABLE TO THIS PROJECT SITE IS BY NYNO AND MOORE DATED MAY 13, 2024. PROJECT 4046511003 AND IS AVAILABLE FOR REVIEW. THE CONTRACTOR SHALL READ THE SOIL REPORT PREPARED FOR THIS PROJECT SITE AND SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK DESCRIBED THEREIN. FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOIL.
- FOR BIDDING PURPOSES, THE ELEVATION OF THE BOTTOM OF FOOTINGS SHALL BE AS INDICATED ON THE FOUNDATION PLANS AND ON DETAILS. THESE FOOTING DEPTHS ARE MINIMUM AND SHALL IN NO CASE BE LESS THAN 24". SLOPE BOTTOM OF FOOTINGS AT 1:10 MAXIMUM SLOPE AS REQUIRED TO SUIT GRADING AND ADJACENT FOOTING CONDITIONS. STEP BOTTOM OF FOOTINGS PER TYPICAL DETAIL FOR GREATER INCLINATIONS.
- SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED ALLOWABLE SOIL PRESSURES DEFINED IN DESIGN CRITERIA ABOVE.
- WHERE FOUNDATION WALL BACKFILL IS NECESSARY, THE BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON EACH SIDE OF WALL, AND THE LEVEL ON ONE SIDE SHALL NOT EXCEED THE OTHER SIDE BY MORE THAN 6 INCHES DURING THIS OPERATION.
- SEE DRAWINGS, AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON PLANS PRIOR TO POURING CONCRETE. FOOTINGS, EXISTING OR NEW PIPES OR ELECTRICAL CONDUITS SHALL NOT ROUTE UNDER FOOTINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. IN ALL CASES, PIPES AND CONDUITS SHALL BE EMBEDDED IN TRENCHES FILLED WITH LEAN CONCRETE AND SPACED A MINIMUM 3 DIAMETERS BETWEEN EACH PIPE OR CONDUIT BASED ON THE LARGEST DIAMETER.
- VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

CONCRETE NOTES

- ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
- SEE THE CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
- REINFORCEMENT SHALL BE ASTM A615, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
- CONCRETE SHALL CONFORM TO THE FOLLOWING CLASSES:

CONCRETE CLASS	USE	28 DAY STRENGTH (PSI)	MAX AGGREGATE SIZE (IN)	CONCRETE WEIGHT (PCF)	MAX W(C+F+S) RATIO %	MIN/MAX FLYASH OR SLAG %
A	FOUNDATIONS	4000	1	145	0.50	25/50
B	GROUT	4000	SAND	145	0.55	0
C	EXTERIOR PAVING	2500	3/4	145	0.50	25/50
D	LEAN CONCRETE FILL	1000	1	145	0.55	25/50
E	CONTROLLED LOW DENSITY MATERIAL FILL	200	N/A	145	0.55	0

*[C+F+S] DENOTES TOTAL WEIGHT OF CEMENT, FLYASH AND SLAG

- PORTLAND CEMENT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C94, TYPE II.
- REPLACE CEMENT CONTENT WITH FLYASH CONFORMING TO ASTM C618 CLASS C OR F, OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 991, CLASS 100 OR 120, PER TABLE ABOVE.
- REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET SETTING" WILL NOT BE ALLOWED.
- REINFORCING BARS WELDED TO STRUCTURAL STEEL SHALL BE SUPPLIED BY REINFORCING BAR SUB-CONTRACTOR AND ALL WELDING SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
- BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:
 - 1" WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT.
 - 2" FOR STRUCTURAL SLAB BARS AT TOP.
- WHERE NEW CONSTRUCTION IS INTEGRATED WITH EXISTING CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN SO AS NOT TO DAMAGE EXISTING REMAINING CONCRETE AND REINFORCING. WHERE NEW CONCRETE ADJUTS EXISTING CONCRETE, CLEAN EXISTING CONCRETE SURFACE WITH HIGH PRESSURE WATER SPRAY. APPLY APPROVED BONDING AGENT TO SURFACE OF EXISTING CONCRETE.
- HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE 1/8" GREATER THAN ANCHOR ROD DIAMETER, UNLESS OTHERWISE NOTED. GROUT SHALL BE NON-SHRINK EPOXY. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
- TERMINATION OF REINFORCEMENT:
 - A. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS, OR DOWELS INTO FOOTINGS OR PERPENDICULAR WALLS OR COLUMNS.
 - B. BEND TOP FOOTING BARS DOWN TO BOTTOM REINFORCING.
 - C. BEND BOTTOM FOOTING BARS UP WITH STANDARD 90 DEGREE BENDS.
 - D. END WALLS WITH HORIZONTAL BARS BENT DOWN OR HORIZONTAL, OR BENT INTO PERPENDICULAR WALLS, COLUMNS OR CORNERS.
 - E. PROVIDE DOWELS INTO FOOTINGS FOR WALLS AND COLUMNS OF THE SAME BAR SIZE AND SPACING AS IN WALLS AND COLUMNS.
 - F. LAP DOWELS PER THE LAP SCHEDULE AT THE BASE OF THE WALL OR COLUMN.
 - G. ALL REINFORCEMENT SHALL LAP PER THE LAP SCHEDULE.
 - H. LAP NO MORE THAN EVERY OTHER BAR AT A SINGLE LOCATION (50% BARS), STAGGER LAPS 5'-0".
 - I. REINFORCEMENT LAPS MAY BE MADE WITH MECHANICAL COUPLERS, TYPE 1, WHICH CAN ACHIEVE 125% OF BAR STRENGTH OR GREATER.
 - J. SUBMIT ICC EVALUATION REPORT TO STRUCTURAL ENGINEER FOR REVIEW.
- ROUGHEN SURFACES AND KEY JOINTS AT HARDENED CONCRETE. ROUGHEN ALL SURFACES AT COLD JOINTS TO 1/4 INCH AMPLITUDE UNLESS NOTED OTHERWISE IN DETAILS. ROUGHEN ALL JOINTS:
 - A. PROVIDE 1 1/2" X 3 1/2" X 10" KEY JOINTS AT ENDS OF WALLS AND AT ENDS OF WALLS AT COLUMNS, CROSS WALLS OR CORNERS.
 - B. PROVIDE 1 1/2" X 3 1/2" X 10" KEY JOINTS AT GRADE BEAMS.
 - C. ROUGHEN SURFACES AT TOPS OF FOOTINGS BELOW WALLS AND COLUMNS.
 - D. A ROUGHEN SURFACES AT TOPS OF ALL WALLS.

STRUCTURAL STEEL NOTES

STRUCTURAL STEEL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH:

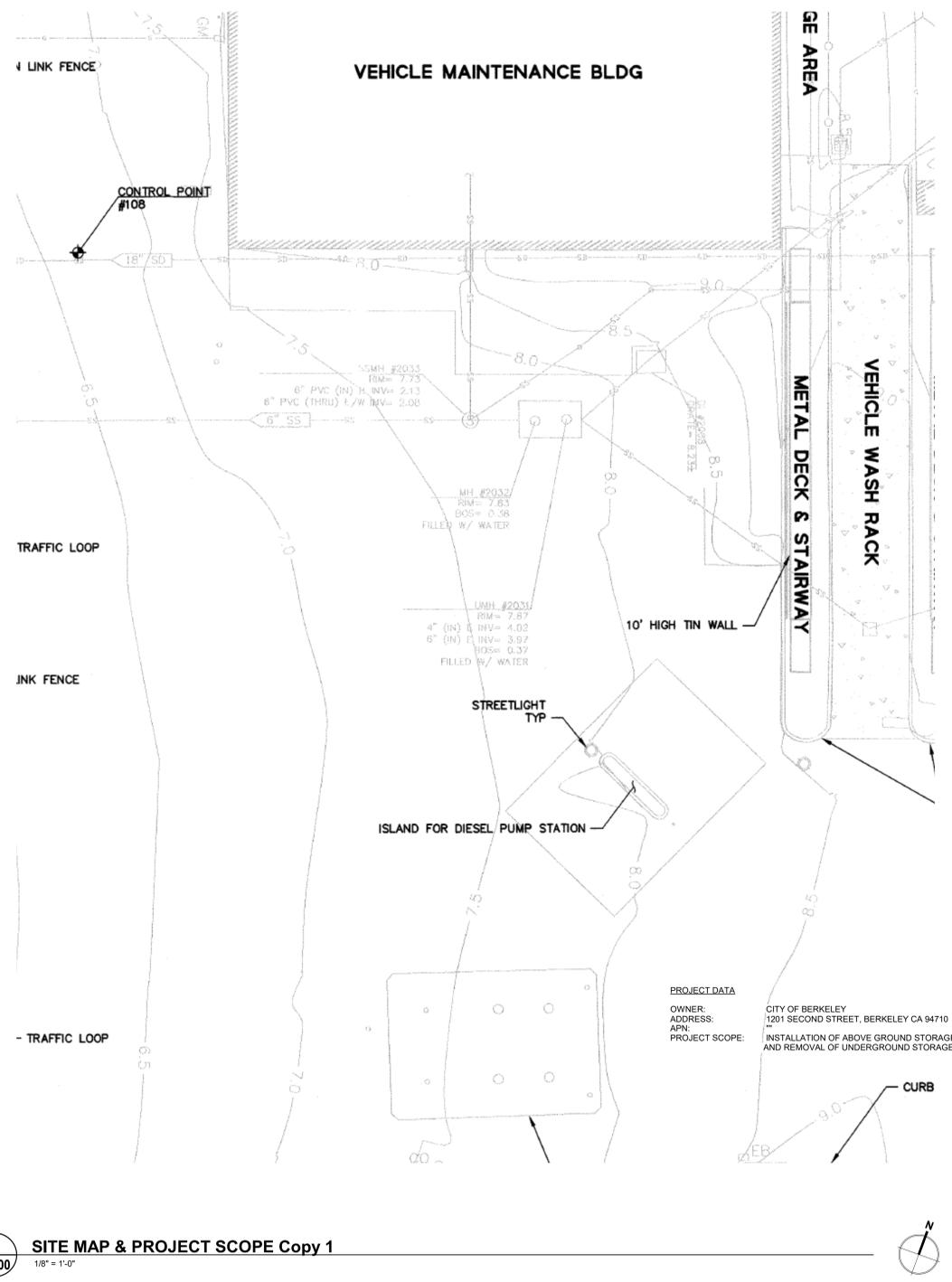
STRUCTURAL STEEL PROPERTIES TABLE	
STRUCTURAL STEEL ELEMENTS	SPECIFICATION
STRUCTURAL STEEL PLATES	ASTM A36, GRADE 36 OR DUEL GRADE
PIPES	ASTM A53, GRADE B, F _y = 35 KSI
WELDING ELECTRODES	E70XX PER AWS D1.1 AND D1.8
ANCHOR BOLTS (AB) OR ANCHOR RODS	ASTM F1554, F _y = 36 KSI
ALL THREADED RODS (ATR)	ASTM A36, F _y = 36 KSI

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
- ALL TESTING AND INSPECTION OF SHOP AND FIELD WELDING OPERATIONS SHALL BE MADE BY A CERTIFIED WELDING INSPECTOR.
- ALL WELDS SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH:
 - A. THE SPECIFICATIONS;
 - B. THE CALIFORNIA BUILDING CODE;
 - C. AWS D1.1, AS WELL AS D1.8 FOR SEISMIC ELEMENTS.
- ALL WELDING ELECTRODES SHALL BE E70 SERIES. THE WELDING INSPECTOR SHALL CHECK THE WELDER'S CERTIFICATION, MATERIAL EQUIPMENT, FIT UP AND PROCEDURES AS WELL AS THE WELDS. THE INSPECTOR SHALL USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF THE WELDS, INCLUDING THE USE OF GAMMA RAY, MAGNIFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUALLY INSPECT AND TO ASCERTAIN THE ADEQUACY OF THE WELDING. THE INSPECTOR SHALL FURNISH THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH A REPORT VERIFYING THAT ALL WELDS HAVE BEEN DONE IN CONFORMITY WITH THE PLANS, SPECIFICATIONS, AWS D1.1 AND ANY APPLICABLE CODES. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FABRICATION AND ERECTION REQUIREMENTS MAY DICTATE FIELD WELDING AND/OR SHOP WELDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHOD OF WELDING TO FULFILL THESE REQUIREMENTS. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM AS DEFINED ON THE PLANS AS SLRS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES FAHRENHEIT AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
- SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ITEMS REQUIRED BY THE SPECIFICATIONS AND THE FOLLOWING:
 - A. CONNECTION MATERIAL, SPECIFICATIONS AND SIZES;
 - B. WHERE CLOSER THAN ALSO TOLERANCES ARE NECESSARY, SUCH AS FOR ALIGNMENT OF STEEL STUDS, MULLIONS, GFRC PANELS, ETC., FIELD WELDING WILL BE REQUIRED TO MEET THE NECESSARY TOLERANCES WITH NO ADDITIONAL COSTS TO THE OWNER;
 - C. USE ONE TYPE OF WELDING ELECTRODE THROUGHOUT ANY ONE CONNECTION;
 - D. WELDING OF REINFORCING STEEL TO STRUCTURAL STEEL SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
 - E. BOLT HOLES IN STEEL SHALL BE 1/8" OVERSIZE UNLESS OTHERWISE NOTED.
- STRUCTURAL STEEL CONTRACTOR SHALL EXCHANGE SHOP DRAWINGS WITH STEEL DECK SUB-CONTRACTOR FOR COORDINATION.

TESTS, INSPECTIONS AND OBSERVATIONS NOTES

- TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE.
- SEE STATEMENT OF SPECIAL INSPECTIONS, WHEN INCLUDED, FOR SPECIAL INSPECTION REQUIREMENTS.
- THE FOLLOWING ITEMS SHALL HAVE SPECIAL INSPECTION:
 - A. REINFORCING STEEL AND ANCHOR BOLTS
 - B. CONCRETE PLACEMENT
 - C. CONCRETE STRENGTH
 - D. POST INSTALLED ANCHORS IN CONCRETE - EXPANSION ANCHORS, OR EPOXY ANCHORS, ETC.
 - E. STRUCTURAL STEEL AND WELDING
- IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:
 - A. REINFORCING STEEL AND ANCHOR BOLTS
 - B. CONCRETE STRENGTH
 - C. STRUCTURAL STEEL AND WELDING
- THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.

THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF A REQUIRED INSPECTION OR OBSERVATION.



1 SITE MAP & PROJECT SCOPE Copy 1
1/8" = 1'-0"

Bid Set

10/21/2025

PROJECT:

Transfer Station: Above Ground Storage Tank

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

GENERAL NOTES AND SITE MAP

JOB NO.: 18095.15 SHEET NO.:
DATE: 07.11.2025
SCALE: AS SHOWN **\$1.00**



STRUCTURAL ENGINEERS

1629 Telegraph Ave
Suite 300
Oakland, CA 94612
tel: 510.834.1629

ida-se.com



Signed on 07-11-2025

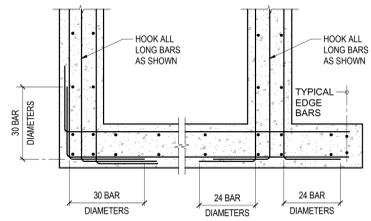
#	DESCRIPTION	DATE

CONCRETE STRENGTH PSI	BAR TYPE	BAR SIZE																	
		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
2500	TOP BAR	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	ALL OTHER BARS	18	24	24	32	30	39	36	47	53	69	60	78	68	88	77	100	85	110
3000	TOP BAR	22	28	29	37	36	47	43	56	63	81	72	93	81	105	91	118	101	131
	ALL OTHER BARS	17	22	22	29	28	36	33	43	48	63	55	72	62	81	70	91	78	101
4000	TOP BAR	19	24	25	33	31	41	37	49	54	71	62	81	70	91	79	102	87	113
	ALL OTHER BARS	15	19	19	25	24	31	29	37	42	54	48	62	54	70	61	79	67	87
5000	TOP BAR	17	22	23	29	28	36	34	43	49	63	56	72	63	81	70	92	78	102
	ALL OTHER BARS	13	17	17	23	22	28	26	34	38	49	43	56	48	63	54	70	60	78

NOTES:
 1. SPLICE LENGTH IN INCHES.
 2. USE CLASS B FOR ALL LAP SPLICES EXCEPT CLASS A MAY BE USED FOR NON-STRUCTURAL SLABS ON GRADE.
 3. TOP BARS - HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS.
 4. TABLE IS BASED UPON MINIMUM CLEAR COVER GREATER THAN ONE BAR DIAMETER AND MINIMUM CLEAR SPACING GREATER THAN TWO BAR DIAMETERS. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.

5 REINFORCING BAR LAP SPLICE SCHEDULE IN CONCRETE

S5.01 3/4" = 1'-0"

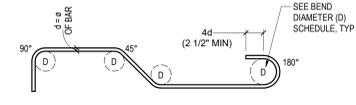


2 TYPICAL REINFORCING AT WALLS & FOOTING CORNERS

S5.01 NTS

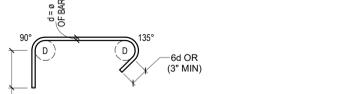
BAR SIZE	BEND DIAMETER (D)	
	STANDARD HOOK & BENDS	STIRRUPS, TIES & HOOPS
#3 THRU #5	6d	4d
#6 THRU #8	6d	6d
#9 THRU #11	8d	N/A
#14 THRU #18	10d	N/A

FOR STIRRUPS & COLUMN TIES
D=2d WITH EXTENSION OF 6d OR 3" MIN



10 TYPICAL REINFORCING BAR BENDS

S5.01 NTS

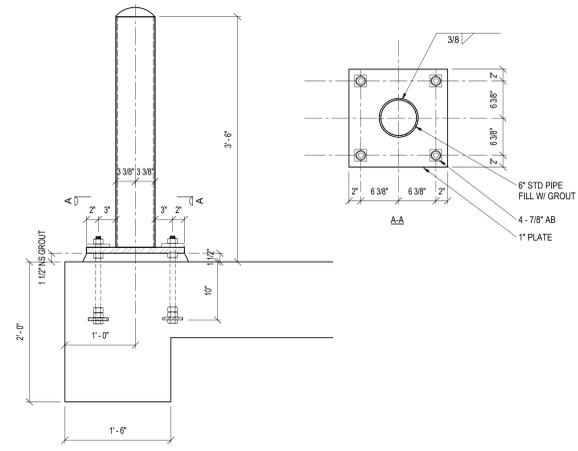


NOTE: ALL LAP SPLICES ARE CLASS B LAP SPLICES

10 TYPICAL REINFORCING BAR BENDS

S5.01 NTS

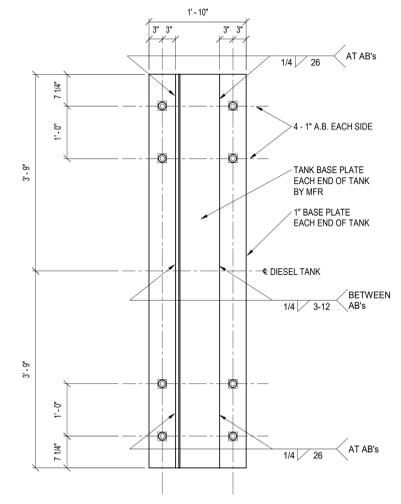
GALVANIZE ALL STEEL AND BOLTS W/ G90 GALV



18 REMOVEABLE BOLLARDS

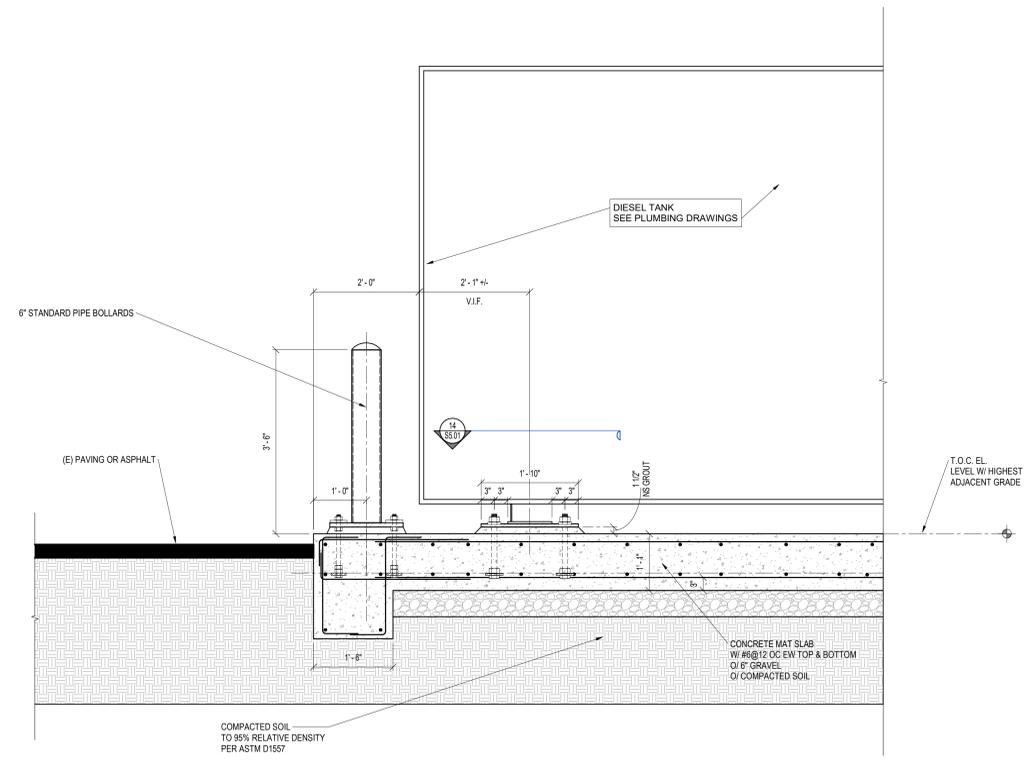
S5.01 1" = 1'-0"

GALVANIZE ALL STEEL AND BOLTS W/ G90 GALV



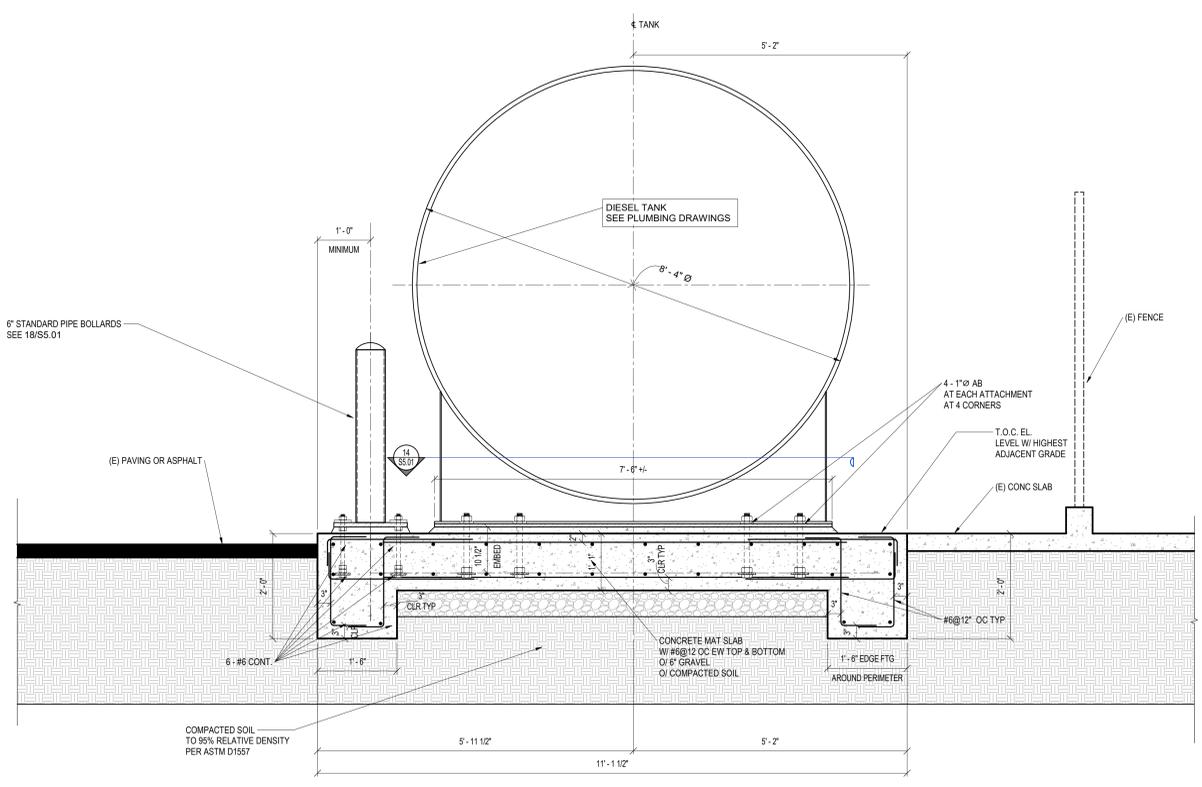
14 DIESEL TANK BASE PLATE AND ANCHOR BOLTS (EA END)

S5.01 3/4" = 1'-0"



8 MAT SLAB AT DIESEL TANK (LONGITUDINAL SECTION)

S5.01 3/4" = 1'-0"



4 MAT SLAB AT DIESEL TANK (TRANSVERSE SECTION)

S5.01 3/4" = 1'-0"

Bid Set
10/21/2025

Transfer Station: Above Ground Storage Tank

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

TYPICAL CONCRETE DETAILS

JOB NO.: 18095.15 SHEET NO.:
DATE: 07.11.2025
SCALE: AS SHOWN **S5.01**

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS APPLY

ABC	ABOVE CEILING/OVERHEAD	LAB	LABORATORY
AC	AIR CONDITIONING	LBS	POUNDS
AFF	ABOVE FINISHED FLOOR	LVL	LEVEL
AG	ABOVE GRADE	LWT	LEAVING WATER TEMPERATURE
AIP	AMPERES	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MBH	THOUSAND BTU PER HOUR
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BG	BELOW GRADE	MISC	MISCELLANEOUS
BHP	BRAKE HORSEPOWER	N/A	NOT APPLICABLE
BLDG	BUILDING	NIC	NOT IN CONTRACT
BOF	BOTTOM OF FOOTING	NO	NUMBER
BTU	BRITISH THERMAL UNIT	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNIT PER HOUR	OC	ON CENTER
CFH	CUBIC FEET PER HOUR	OD	OUTSIDE DIAMETER
CLG	CEILING	OH	OVERHEAD
CONC	CONCRETE	PD	PRESSURE DROP
COTG	CLEAN OUT TO GRADE	POC	POINT OF CONNECTION
DIA	DIAMETER	POD	POINT OF DEMOLITION
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
EFF	EFFICIENCY	RIO	ROUGH-IN ONLY
ELEC	ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN	SCD	SEE CIVIL DRAWINGS
FT	FOOT OR FEET	SED	SEE ELECTRICAL DRAWINGS
FP	FIRE PROTECTION	SMD	SEE MECHANICAL DRAWINGS
FJ	FIXTURE UNIT	SL	SLOPE
GA	GAUGE	SP	STATIC PRESSURE
GAL	GALLON	SPECS	SPECIFICATIONS
GALV	GALVANIZED	SSD	SEE STRUCTURAL DRAWINGS
GPH	GALLONS PER HOUR	STD	STANDARD
GPM	GALLONS PER MINUTE	STRUCT	STRUCTURAL
H&C/W	HOT AND COLD WATER	TDH	TOTAL DYNAMIC HEAD
HD	HEAD	TEMP	TEMPERATURE
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING, VENT & AIR CONDITIONING	UF	UNDERFLOOR
ID	INSIDE DIAMETER	UG	UNDERGROUND
IE	INVERT ELEVATION	UN	UNLESS OTHERWISE NOTED
IN	INCH	V	VENT OR VOLTS
KW	KILOWATTS	VTR	VENT THROUGH ROOF
		W	WATTS
		WT	WEIGHT

SYMBOLS

NOTE: NOT ALL SYMBOLS APPLY

SYMBOL	ABBR	DESCRIPTION
		DETAIL NUMBER DRAWING NUMBER
		SECTION NUMBER DRAWING NUMBER
		EQUIPMENT TYPE UNIT NUMBER
	SS	SANITARY SEWER (UNDERGROUND/UNDERSLAB)
	V	SANITARY VENT
	SD	STORM DRAIN
	SD-FTP	STORM DRAIN TO FLOW-THRU-PLANTER
	OD	OVERFLOW DRAIN (FOR ROOF DRAINS)
	CD	CONDENSATE DRAIN
	IW	INDIRECT WASTE
	CW	COLD WATER SUPPLY
	HW	HOT WATER SUPPLY
	HWR	HOT WATER RECIRCULATING
	TW	TEMPERED WATER
	G	NATURAL GAS - LOW PRESSURE
	MG	NATURAL GAS - MEDIUM PRESSURE
		DEMOLISHED ITEM
	FCO, COTG	FLOOR CLEANOUT OR CLEANOUT TO GRADE
	WCO, CO	WALL CLEANOUT OR CLEANOUT
		PIPE BREAK
		PIPE RISER UP (ELBOW)
		PIPE RISER DOWN (ELBOW)
		PET'S PLUG
		MAIN WATER SHUT FOR BUILDING
	UN	UNION
	CV	CHECK VALVE
	GV	GATE VALVE
	PRV	PRESSURE REDUCING VALVE
	BV	BALL VALVE
	GC	GAS COCK
	BFV	BUTTERFLY VALVE
	BLV	BALANCING VALVE
	CS	CIRCUIT SETTER
	PTRV	PRESSURE AND TEMPERATURE RELIEF VALVE
		THERMOMETER
	PG	PRESSURE GAUGE WITH GAUGE COCK
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	HB	HOSE BIBB
	1:1	PLUMBING FIXTURE IDENTIFICATION
	1	PLUMBING SHEET NOTE

GENERAL PLUMBING NOTES

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), 2022 CPC.
- ALL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, FEDERAL AND STATE CODES AND ORDINANCES, AND SHALL MEET ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- DRAWINGS SHOWING THE LOCATIONS OF PLUMBING EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND JOB CONDITIONS WILL NOT ALWAYS PERMIT THEIR INSTALLATION ON THE LOCATIONS SHOWN. THE PLUMBING DRAWINGS SHOW THE GENERAL ARRANGEMENTS OF EQUIPMENT, PIPING, ETC. AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE ARCHITECTURAL DRAWINGS SHALL BE PART OF THE WORK INsofar AS THESE DRAWINGS FURNISH THE CONTRACTOR WITH INFORMATION RELATING TO DESIGN AND CONSTRUCTION OF THE BUILDING.
- FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH ARE NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
- PRIOR TO SUBMISSION OF BID, REVIEW FULL SET OF NEW CONSTRUCTION DRAWINGS (INCLUDING ALL OTHER TRADES). INCLUDE ANY ADDITIONAL PIPE OFF-SETS THAT ARE NOT CURRENTLY SHOWN ON DRAWINGS BUT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER INITIAL APPRAISAL OF ENTIRE SCOPE OF WORK. SUBMIT REQUESTS FOR INFORMATION (RFIS) AS REQUIRED TO ANSWER ANY QUESTIONS THAT MAY ARISE DURING BIDDING PHASE. CLEARLY INDICATE SCOPE INCLUSION AND EXCLUSION IN BID.
- CLOSELY COORDINATE WORK WITH ALL TRADES.
- PROVIDE DIELECTRIC INSULATING CONNECTIONS BETWEEN ALL DISSIMILAR METALS.

SCOPE OF WORK

- REMOVE EXISTING FUEL PUMPS AND ASSOCIATED UNDERGROUND PIPING.
- PROVIDE SELF CONTAINED, ABOVE GROUND FUEL TANK WITH (2) TANK MOUNTED PUMPS TO PROVIDE BIODIESEL FUEL FOR TRUCKS.

APPLICABLE CODES

- 2022 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
 - 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
 - 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
 - 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
 - 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
 - 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
 - 2022 CALIFORNIA FIRE CODE (CFC), PART 7, TITLE 24, C.C.R.
 - 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
 - 2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R. (PENDING ADOPTION)
 - 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
 - TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- NFPA 13, AUTOMATIC SPRINKLER SYSTEM, CURRENT EDITION
 NFPA 24, PRIVATE FIRE SERVICE MAINS, CURRENT EDITION
 REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC(SFM) 3504.1
 TITLE 24 C.C.R. ACCESSIBILITY STANDARDS
 AMERICAN WITH DISABILITIES ACT - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

SHEET INDEX

P0.00	PLUMBING COVER SHEET
P0.01	PLUMBING SCHEDULE/CUTSHEETS
P2.00	PLUMBING DEMOLITION SITE PLAN
P2.10	PLUMBING PROPOSED SITE PLAN

NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

	PERMIT RESUBMITTAL	6/13/2025



ENGINEERING DESIGN COLLABORATIVE
582 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104

212 9TH STREET, SUITE 203
OAKLAND, CA 94607

91 GREGORY LANE, SUITE 3
PLEASANT HILL, CA 94523

(415) 963-4303



Bid Set

10/21/2025

PROJECT:
**Transfer Station: Above
Ground Storage Tank**

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

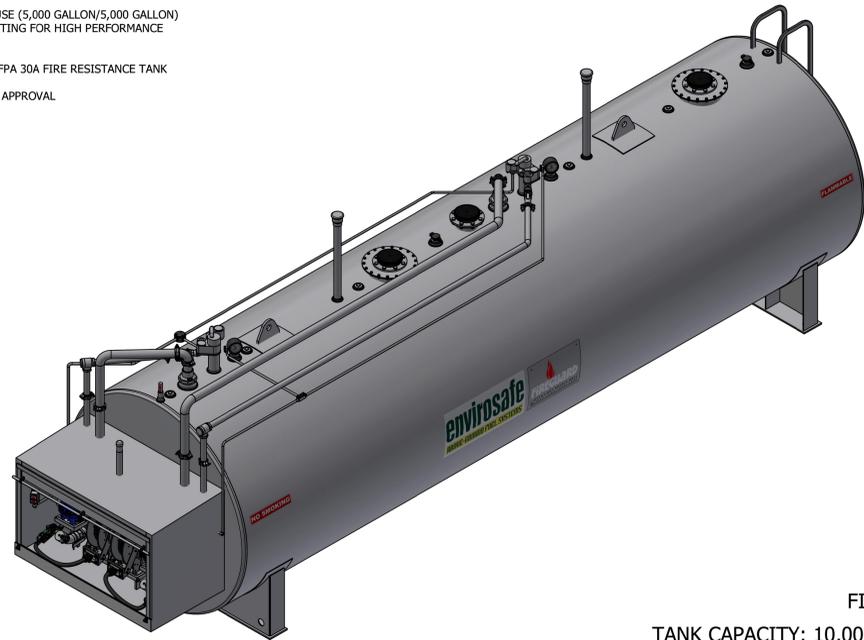
**PLUMBING COVER
SHEET**

JOB NO.: SHEET NO.:
DATE: 01-31-2025
SCALE: AS SHOWN **P0.00**

ABOVEGROUND, SELF CONTAINED STORAGE TANK - BASIS OF DESIGN

SELF-CONTAINED ABOVE GROUND DOUBLE WALLED TANK SCHEDULE												
SYMBOL	MANUFACTURER /MODEL	LOCATION	SYSTEM	WEIGHT	VOLUME (GAL)	APPROXIMATE DIMS		ELECTRIC			NOTES	
						LENGTH (IN)	DIAMETER (IN)	PUMP HP	VOLTS	PHASE		MOCP (AMPS)
FT-1	ENVIROSAFE (OR EQUAL)	SITE	BIODEISEL FUEL	105,000	10000	360	100	3/4	220	1	20	PROVIDE (2) PUMPS AND FILL NOZZLES MOUNTED IN LOCKABLE ENCLOSURE ON END OF TANK. PROVIDE WITH MORRISON 1218 ELECTRONIC LEAK DETECTION SYSTEM.

- NOTES:
- ON ROAD DIESEL AND OFF ROAD DIESEL USE (5,000 GALLON/5,000 GALLON)
 - ENVIROLASTIC 940 LV POLYSPARTIC COATING FOR HIGH PERFORMANCE FINISH (MEMCO GREY)
 - UL 2085 LABELED AND LISTED
 - 2 HOUR RATING TESTED TO SWRI 97-04 NFPA 30A FIRE RESISTANCE TANK
 - TIE-DOWN POINTS ON SADDLES
 - LEAD TIME IS DEPENDENT ON IMMEDIATE APPROVAL

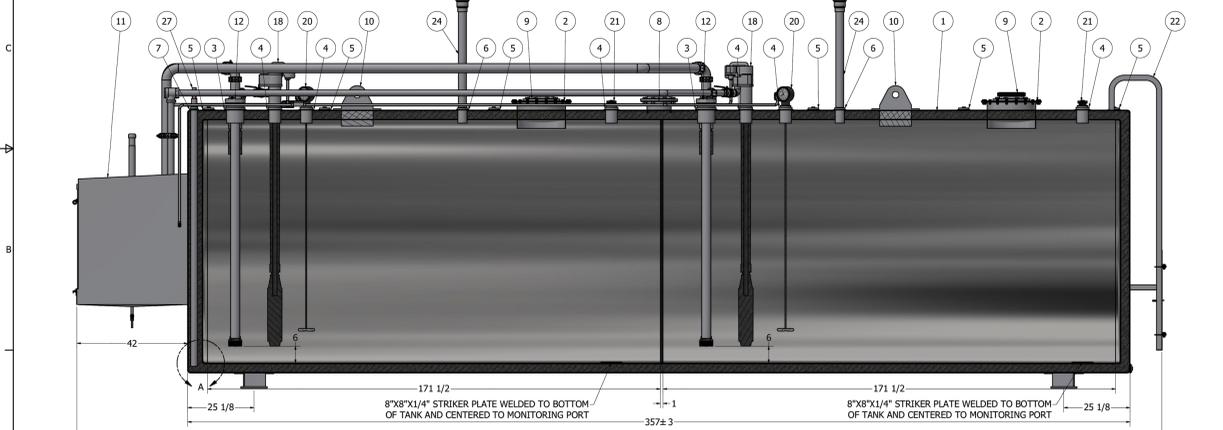


WEIGHT:
34,000 LB ±

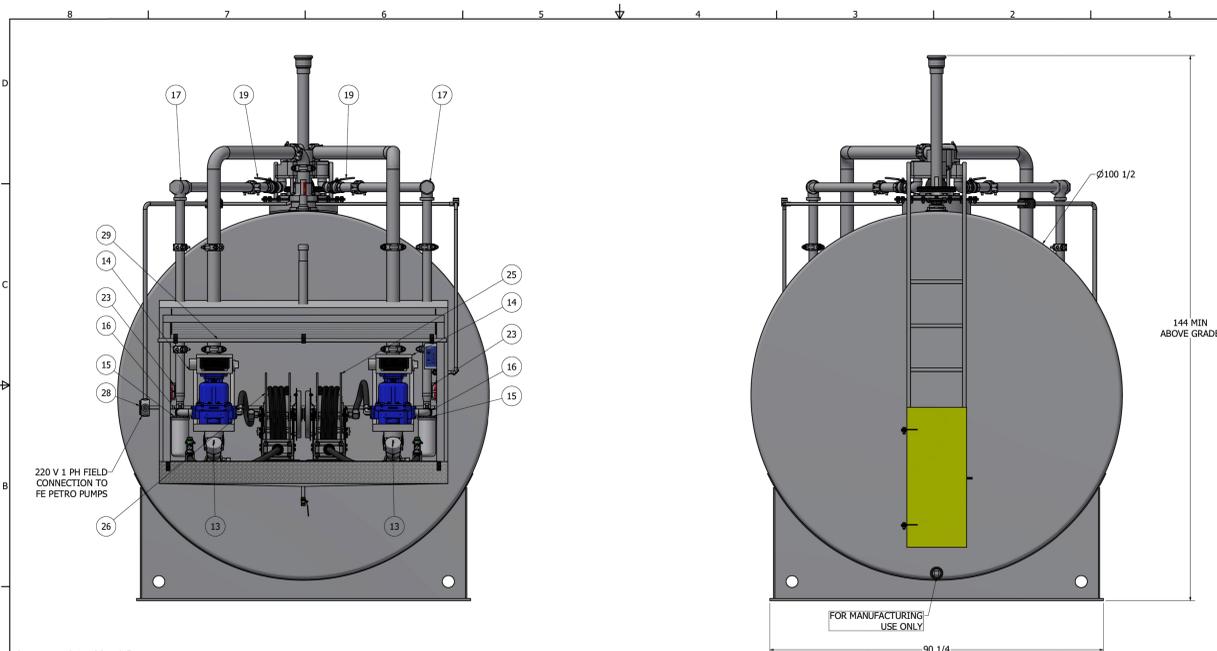
FIREGUARD
TANK CAPACITY: 10,000 GALLON

STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS

PARTS LIST		PARTS LIST	
ITEM QTY	DESCRIPTION	ITEM QTY	DESCRIPTION
1	10,000 GALLON FIREGUARD TANK MOUNTED ON SADDLES	17	2" NPT ANTI-SIPHON VALVE 5'-10" W.C.
2	18" MANWAY FOR EASY INNER TANK ACCESSIBILITY WITH 8" FLANGED E-VENT OPENING	18	FE PETRO 3/4 HP W/ 9" RISER, 88" - 149" (240V 1 PH)
3	6" NPT THREADED FLANGE	19	VALVE BALL FULL FLOW BRASS 2"
4	4" NPT THREADED FLANGE	20	918 CLOCK GAUGE WITH ALARM BOX & STANDARD FLOAT
5	3" NPT THREADED FLANGE (CONCRETE PORT)	21	MONITORING CAP 2"
6	2" NPT THREADED FLANGE	22	1 STEP LADDER WITH SAFETY SHIELD
7	2" NPT THREADED FLANGE	23	PUMP SWITCH, COVER & BACKPLATE, 1/2" EXPLOSION PROOF BOX
8	1 8" 8 OZ./SQ. IN. FLANGED EMERGENCY VENT KIT	24	3" UPDRAFT STACK W/3" 354 SLIP ON
9	2 8" 8 OZ./SQ. IN. FLANGED EMERGENCY VENT WITH SET OF NUTS AND BOLTS AND GASKET	25	1 REEL HOSE N800 1" SPRING REEL INLET RIGHT WITH 1"x12" HOSE WHIP, 1" BREAKAWAY, 1" NOZZLE, 1" SWIVEL
10	2 LIFTING LUG WITH REPAD PLATE	26	1 REEL HOSE N800 1" SPRING REEL INLET LEFT WITH 1"x25" HOSE PUMPFLEX II, 1"x12" HOSE WHIP, 1" BREAKAWAY, 1" NOZZLE, 1" SWIVEL
11	1 WELDED UL LISTED LOCKABLE FILL BOX 36" X 66" X 42" CROSS BROKEN FOR EASY DRAINAGE, 2" VENT, MUSHROOM CAP, 1/2 BALL VLAVE	27	1 INTERSTITIAL LEAK GAUGE
12	2 3" OVERFILL PREVENTION VALVE WITH DIFFUSER	28	2 3/4" JUNCTION BOX
13	2 3" GROUND LEVEL FILL WITH BALL VALVE, VERTICAL CHECK VALVE, DUST CAP AND ADAPTOR	29	1 ROM DOOR TO BE USED ON 78" WIDE BOX
14	2 TOTAL CONTROL 682-15 PISTON METER WITH 10:1 PULSER	30	1 TANK DECAL KIT (NOT SHOWN)
15	2 CIM-TEK 1 1/2" FILTER ADAPTER, 1" SPIN-ON FILTER	31	1 TOUCH UP PAINT (NOT SHOWN AND SHIPPED SEPARATELY)
16	2 VALVE BALL BRASS 1-1/2"		



STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS



SHELL THICKNESS: 1/4"
HEAD THICKNESS: 5/16"

STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS

PARTS LIST		PART NUMBER	
ITEM QTY	DESCRIPTION	ITEM QTY	DESCRIPTION
1	10,000 GALLON FIREGUARD TANK MOUNTED ON SADDLES		10000 FG TANK ASSEMBLY_NEW LENGTH
2	18" MANWAY FOR EASY INNER TANK ACCESSIBILITY WITH 8" FLANGED E-VENT OPENING		P-1808 MANWAY COVER, P-18 MANWAY 10 NECK
3	6" NPT THREADED FLANGE		P-SERIES-159
4	4" NPT THREADED FLANGE		P-SERIES-262
5	3" NPT THREADED FLANGE (CONCRETE PORT)		P-SERIES-260
6	2" NPT THREADED FLANGE		P-SERIES-258
7	2" NPT THREADED FLANGE		P-2440F-08080 AK
8	1 8" 8 OZ./SQ. IN. FLANGED EMERGENCY VENT KIT		P-2440F-0100AVEVR, P-244F-0110 26, P-244F-0107 AN
9	2 8" 8 OZ./SQ. IN. FLANGED EMERGENCY VENT WITH SET OF NUTS AND BOLTS AND GASKET		S-LIFTING LUG NEW SIZE
10	2 LIFTING LUG WITH REPAD PLATE		M-LARGE BOX
11	1 WELDED UL LISTED LOCKABLE FILL BOX 36" X 66" X 42" CROSS BROKEN FOR EASY DRAINAGE, 2" VENT, MUSHROOM CAP, 1/2 BALL VLAVE		P-9095AA-3300AVEVR, P-539AT-0300 AD
12	2 3" OVERFILL PREVENTION VALVE WITH DIFFUSER		A-3-FILL
13	2 3" GROUND LEVEL FILL WITH BALL VALVE, VERTICAL CHECK VALVE, DUST CAP AND ADAPTOR		P-582-159P2AT2
14	2 TOTAL CONTROL 682-15 PISTON METER WITH 10:1 PULSER		P-50163, P-70020
15	2 CIM-TEK 1 1/2" FILTER ADAPTER, 1" SPIN-ON FILTER		P-0740-30280
16	2 VALVE BALL BRASS 1-1/2"		P-0740-2105 AV
17	2" NPT ANTI-SIPHON VALVE 5'-10" W.C.		P-STP75-L2-09
18	FE PETRO 3/4 HP W/ 9" RISER, 88" - 149" (240V 1 PH)		P-0740-30282
19	VALVE BALL FULL FLOW BRASS 2"		P-0740-0100AC
20	918 CLOCK GAUGE WITH ALARM BOX & STANDARD FLOAT		P-179M-0100AC
21	MONITORING CAP 2"		SK-12K FG STEP LADDER WITH SAFETY SHIELD
22	1 STEP LADDER WITH SAFETY SHIELD		P-SWB-1, P-XS-2C
23	PUMP SWITCH, COVER & BACKPLATE, 1/2" EXPLOSION PROOF BOX		3" STACK, P-354-0300AV
24	3" UPDRAFT STACK W/3" 354 SLIP ON		P-N818-23-24-10.SRIGHT, P-22341641251, P-0087, P-2276, P-4-HR-1005, P-173312-03
25	1 REEL HOSE N800 1" SPRING REEL INLET RIGHT WITH 1"x25" HOSE PUMPFLEX II, 1"x12" HOSE WHIP, 1" BREAKAWAY, 1" NOZZLE, 1" SWIVEL		P-N818-23-24-10.5 LEFT, P-22341641251, P-0087, P-2276, P-4-HR-1005, P-173312-03
26	1 REEL HOSE N800 1" SPRING REEL INLET LEFT WITH 1"x25" HOSE PUMPFLEX II, 1"x12" HOSE WHIP, 1" BREAKAWAY, 1" NOZZLE, 1" SWIVEL		P-4-2-96
27	1 INTERSTITIAL LEAK GAUGE		P-GUR2
28	2 3/4" JUNCTION BOX		P-ROM DOOR 71.25W
29	1 ROM DOOR TO BE USED ON 78" WIDE BOX		P-DECAL KIT
30	1 TANK DECAL KIT (NOT SHOWN)		
31	1 TOUCH UP PAINT (NOT SHOWN AND SHIPPED SEPARATELY)		

STI		SwRI	UL	MEMCO, INC		AUTHOR AKSHAR P	SALES ER	envirosafe
ER VERSION #:		SALES ORDER #:		DATE 6/20/2023	SIZE	REV	SHEET 1 OF 4	ABOVE-GROUND FUEL SYSTEMS

PERMIT RESUBMITTAL	6/13/2023



ENGINEERING DESIGN COLLABORATIVE
582 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
212 9TH STREET, SUITE 203
OAKLAND, CA 94607
91 GREGORY LANE, SUITE 3
PLEASANT HILL, CA 94523
(415) 963-4303



Bid Set
10/21/2025

PROJECT:
Transfer Station: Above Ground Storage Tank

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

PLUMBING
SCHEDULE/CUTSHEETS

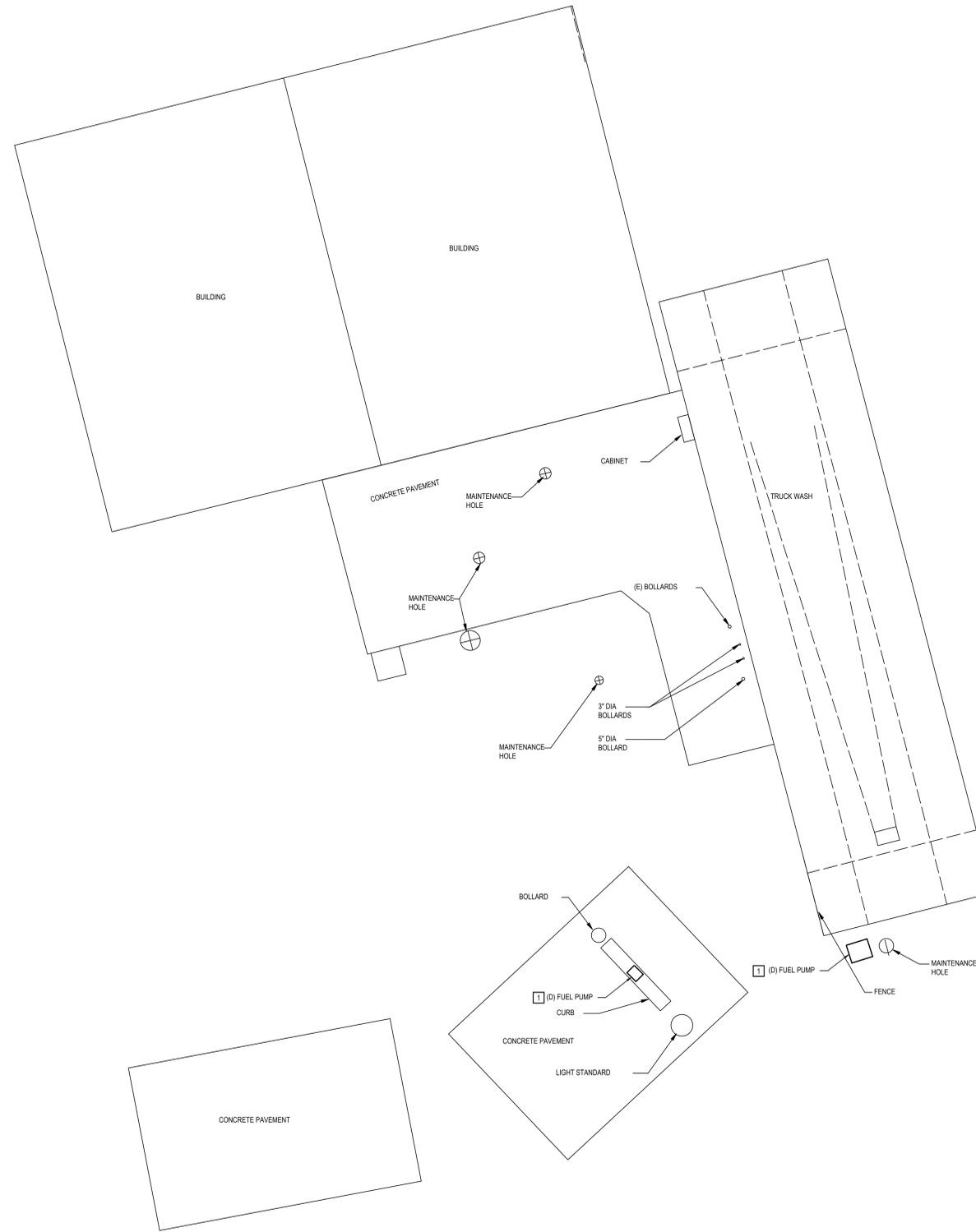
JOB NO.: SHEET NO.:
DATE: 01-31-2025
SCALE: AS SHOWN **P0.01**

SHEET NOTES [E]

1. DEMOLISH (E) PUMP AND ASSOCIATED UG PIPING.

**NOLL
& TAM**
ARCHITECTS

729 Heinz Avenue
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1 PLUMBING DEMOLITION SITE PLAN
SCALE: 1/8" = 1'-0"



△	PERMIT RESUBMITTAL	6/13/2025



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Bid Set

10/21/2025

PROJECT:
**Transfer Station: Above
Ground Storage Tank**

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

**PLUMBING DEMOLITION
SITE PLAN**

JOB NO.: SHEET NO.:
DATE: 01-31-2025
SCALE: AS SHOWN **P2.00**

△	PERMIT RESUBMITTAL	6/13/2025

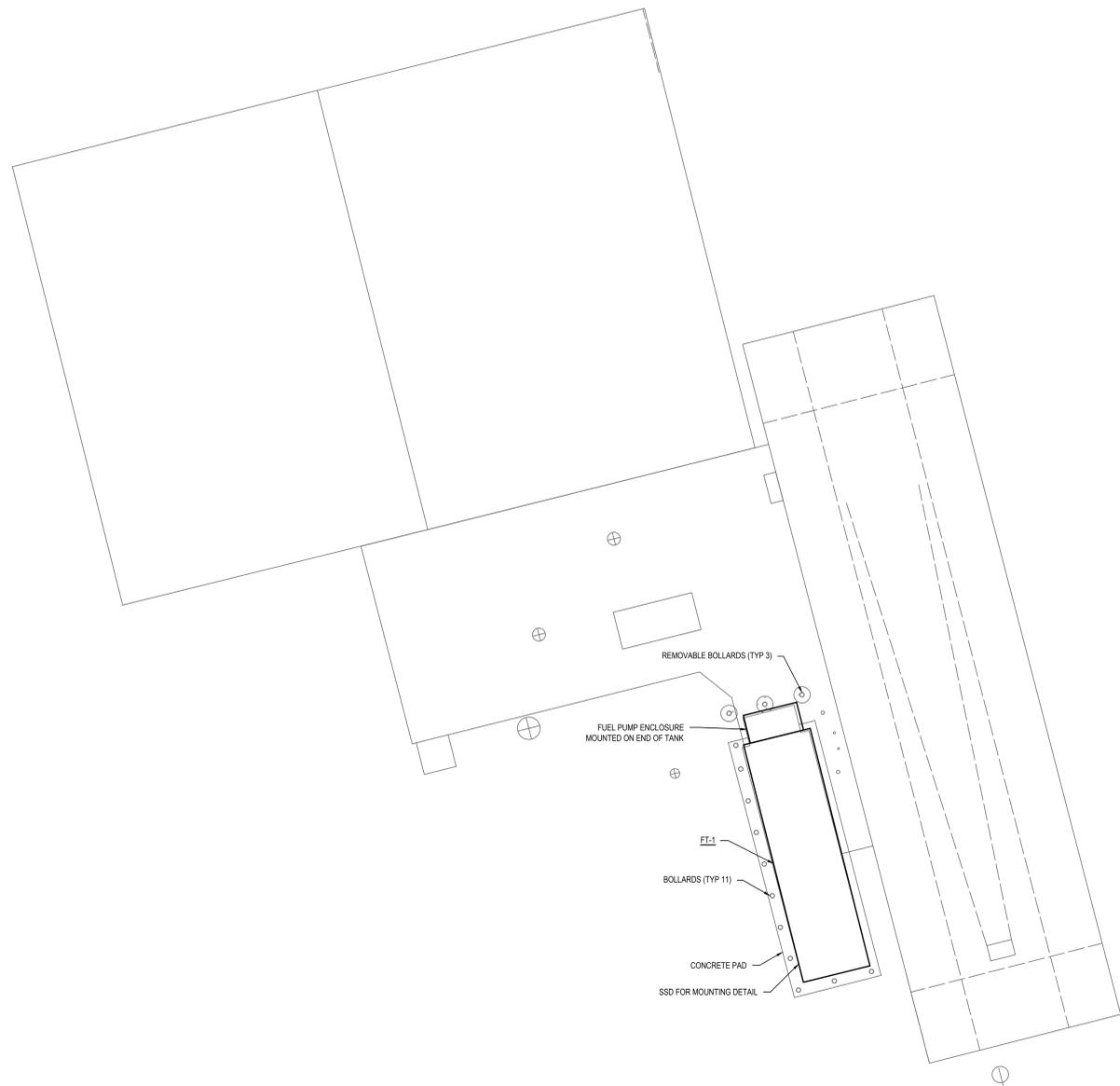


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1 PLUMBING PROPOSED SITE PLAN
SCALE: 1/8" = 1'-0"



Bid Set

10/21/2025

PROJECT:

**Transfer Station: Above
Ground Storage Tank**

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

**PLUMBING PROPOSED
SITE PLAN**

JOB NO.: SHEET NO.:
DATE: 01-31-2025
SCALE: AS SHOWN **P2.10**

GENERAL NOTES

- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING JOB CONDITION. HE SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE, PRIOR TO SUBMITTING HIS BID PROPOSAL. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.
- EXISTING ARCHITECTURAL SURFACES DISTURBED DURING CONSTRUCTION SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.
- WORK SHOWN IN THESE PLANS ARE NEW, UNLESS INDICATED OTHERWISE. INSTALLATION SHALL BE CONCEALED, WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT AND ENGINEER FOR EXPOSED INSTALLATION. A WRITTEN APPROVAL IS REQUIRED. USE SURFACE RACEWAYS, WIREMOLD, OR EQUAL. ALL ELECTRIC MATERIALS, DEVICES, AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. APPROVED.
- ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUIT SHALL BE RUN PARALLEL TO EXISTING SURFACES. WHEN CONDUIT CROSSES CORRIDORS OR ROOMS IT SHALL BE DONE PERPENDICULAR TO WALLS.
- PAINT ALL SURFACE MOUNTED CONDUITS AND FITTINGS TO MATCH ADJACENT SURFACE. CONFIRM COLOR WITH OWNER.
- ALL EXPOSED CONDUITS SHALL BE MOUNTED WITH 2-HOLE STRAPS.
- CONDUIT CONNECTORS SHALL BE COMPRESSION TYPE.
- SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED TO MAINTAIN FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILINGS. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS. IN WALLS AND PARTITIONS THAT ARE FOR FIRE RESISTIVE CONSTRUCTION, OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES SHALL NOT EXCEED 16 SQUARE INCHES. IN ADDITION, THE AGGREGATE AREA OF SUCH OPENINGS SHALL NOT EXCEED 100 SQUARE INCH FOR ANY 100 SQUARE FEET OF WALL OR PARTITION. OUTLET BOXES ON OPPOSITE SIDES OF THE WALLS OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES, OR BE PROVIDED WITH FIRE PUTTY.
- ALL NEW WIRING SHALL BE IN CONDUIT. COORDINATE ROUTING OF CONDUIT WITH ARCHITECT AND STRUCTURAL FOR OPENINGS IN WALLS AND ANY NOTCHING OF JOISTS.
- THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAILS OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WANSOOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN. SEE ELECTRICAL SECTION OF ARCHITECTURAL SPECIFICATION FOR ADDITIONAL INFORMATION.
- PULLROPS: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER.
- ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (I.E. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
- ALL EQUIPMENT MANUFACTURERS SHALL BE NOTED IN DRAWINGS. SUBSTITUTIONS ARE PERMITTED BUT MUST BE APPROVED EQUAL.
- CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACTOR WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER NON-INRUSH LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS 1, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION OF FANS AND WATER HEATERS.
- ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS.
- GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
- FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO PROVIDE EXPANSION FITTINGS AT ALL EXPANSION JOINT LOCATION. USE STEEL FLEX 6 FEET EACH SIDE OF THE JOINT AND TERMINATE IN A PULLBOX AT EACH END, OR OTHER APPLIED METHODS.
- ALL LIGHTING FIXTURE LOCATIONS AND ROUTING SHALL BE REVIEWED BY ARCHITECT PRIOR TO ROUGH-IN.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 36" CLEARANCE PER NEC ARTICLE 110.26.
- PENETRATIONS OF FIRE RATED WALLS CEILINGS OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS.
- WHERE OUTLET BOXES ARE INSTALLED WITHIN RATED ASSEMBLIES, PROVIDE 3M MOLDABLE PUTTY PADS OR EQUAL TO MAINTAIN FIRE RATED ASSEMBLIES.
- ALL RECEPTACLES SHALL BE GROUNDING TYPE.
- ALL RECEPTACLES INSTALLED IN BATHROOMS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
- SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
- PERFORMANCE AND WITNESSING OF TESTS:
 - THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
 - ALL NEW AND RECONNECTED ELECTRICAL CIRCUIT SHALL BE TESTED TO INSURE CIRCUIT CONTINUITY, INSULATION RESISTANCE, PROPER SPLICING AND GROUNDING IN ACCORDANCE WITH THE LATEST STANDARDS AS STATED ABOVE. BEFORE CONNECTING POWER CABLES TO MOTORS, THE INSULATION RESISTANCE OF ALL MOTOR WINDINGS SHALL BE TESTED IN ACCORDANCE WITH THE ABOVE STANDARDS.
 - ANY CONTRACTOR FURNISHED AND/OR INSTALLED SPLICE, RECOMMENDED VOLTAGE AND INSULATION RESISTANCE TESTS, SHALL BE CONNECTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
 - NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN MADE.
 - THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.
- IN DOUBLE STUD PARTITIONS, CONDUIT SHOULD NOT BRIDGE STUD ROWS. CONDUIT SHOULD BE ROUTED ONLY IN THE STUDS ON THE SIDE OF THE UNIT SERVED AND SHOULD NOT BE PLACED IN THE GAP BETWEEN STUD ROWS.
- OUTLET BOXES ON OPPOSITE SIDES OF DEMISING PARTITIONS SHOULD BE SEPARATED BY AT LEAST 16 INCHES AND PROVIDE BACKING EQUIVALENT TO LOWRY'S OUTLET BOX PADS. WHEN ELECTRICAL BOXES MUST BE BACK-TO-BACK OR LESS THAN 16" OF EACH OTHER, INSTALL GYPSUM BOARD CENTERED VERTICALLY TO BOX FROM STUD TO STUD.
- DO NOT ALLOW ELECTRICAL CONDUIT OR BOXES TO COME INTO CONTACT WITH PLUMBING.

SYMBOLS (NOT ALL USED)

GENERAL SYMBOLS

- # = DETAIL NUMBER
- X = SHEET NUMBER
- DEMOLITION WORK
- MATCH LINE
- ENLARGED PLANS
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.
- BRANCH CIRCUIT HOMERUN TO PANEL, CONCEALED IN CEILING SPACE OR WHERE POSSIBLE.
- REQUIRED WORKING CLEARANCE PER NEC 110.26.
- LIGHT FIXTURE TAG (X = FIXTURE TYPE). REFER TO LIGHTING SCHEDULE.

POWER SYSTEM SYMBOLS

- JUNCTION OR OUTLET BOX MOUNTED ABOVE CEILING WITH BLANK COVER.
 - X = JUNCTION BOX TYPE, CU = CONDENSING UNIT, EF = EXHAUST FAN, ERY = ENERGY RECOVERY VENTILATOR, FC = FAN COIL, KRH = KITCHEN RANGE HOOD, HP = HEAT PUMP, OAF = OUTSIDE AIR FAN, AND SF = SUPPLY FAN.
- 1' CONDUIT HOMERUN TO PANEL EV FOR FUTURE EV CHARGING STATION AT EV CAPABLE SPACES, BOLLARD MOUNT OR WALL MOUNT.
- HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
- EMERGENCY POWER OFF BUTTON
- FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSED (UON).
- DUPLEX RECEPTACLE 20A, 125V, 3W, NEMA 5-20R, +15" (UON), NEW INTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. REFER TO PANEL SCHEDULES FOR AFCI TYPE RECEPTACLE APPLICATION.
 - X = RECEPTACLE TYPE, WP = GFCI AND WEATHERPROOF WITH IN-USE COVER, D = DEDICATED, GFCI = WITH GROUND FAULT CIRCUIT INTERRUPTER, AND OS = OCCUPANCY SENSOR CONTROLLED.
- DUPLEX RECEPTACLE 20A, WITH GROUND FAULT CIRCUIT INTERRUPTER, +15" (UON), (WP = WEATHERPROOF)
- DUPLEX RECEPTACLE 20A, ABOVE COUNTER OR +42" AFF.
- DOUBLE DUPLEX RECEPTACLE (2) NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER.
- DUPLEX RECEPTACLE, 20A, FLUSH MOUNTED FLOOR BOX, NEW INTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. REFER TO PANEL SCHEDULES FOR AFCI TYPE RECEPTACLE APPLICATION.
- QUADPLEX RECEPTACLE NEMA 5-20R, FLUSH MOUNTED FLOOR BOX, NEW INTERIOR RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. REFER TO PANEL SCHEDULES FOR AFCI TYPE RECEPTACLE APPLICATION.
- DOUBLE DUPLEX RECEPTACLE (2) NEMA 5-15R.
- DOUBLE DUPLEX RECEPTACLE (2) NEMA 5-20R, SPLIT-WIRED, WITH GROUND FAULT CIRCUIT INTERRUPTER.
- 240V OR 208V RECEPTACLE OR OUTLET. COORDINATE ELECTRICAL CONNECTION WITH FINAL EQUIPMENT SELECTION.
- PANELBOARD: 120/240V, 1 PHASE, 3 WIRE SURFACE MOUNTED, 120/208V, 3 PHASE, 4 WIRE FLUSH SURFACE MOUNTED.

LIGHTING CONTROLS SYSTEM SYMBOLS

- LOW VOLTAGE DIMMER SWITCH FOR MULTIPLE ZONES. (# = NUMBER OF CONTROLLED ZONE AND a,b = ZONE)
- SINGLE POLE SWITCH AND BOX WITH STANDARD MANUAL ON / OFF IN COMBINATION OF SWITCH TYPE LISTED BELOW, WALL MOUNTED, +48" AFF TO THE TOP OF THE BOX, UON.
 - X = SWITCH TYPE: BLANK = MANUAL ON / OFF ONLY, 3 = THREE-WAY, D = DIMMER, OS = OCCUPANCY SENSOR, VS = VACANCY SENSOR, AND WP = WEATHERPROOF.
- SINGLE POLE SWITCH AND BOX WITH LIGHTING SENSOR AND DIMMING CAPABILITY, WALL MOUNTED, +48" AFF TO THE TOP OF THE BOX, UON.
 - SWITCH TYPE: OSD = OCCUPANCY SENSOR WITH DIMMER
- THREE-WAY SWITCH WITH DIMMING CAPABILITY, WALL MOUNTED, +48" AFF TO THE TOP OF THE BOX, UON.
 - a,b = CONTROLLED ZONE (ONLY APPLICABLE TO THREE-WAY SWITCH).
- LIGHTING SENSOR, CEILING MOUNTED.
 - OS = CONFIGURE FOR OCCUPANCY AND VS = CONFIGURE FOR VACANCY.
- LIGHTING SENSOR, WALL MOUNTED.
 - OS = CONFIGURE FOR OCCUPANCY AND VS = CONFIGURE FOR VACANCY.
- LIGHTING SENSOR COMBO OF OCCUPANCY AND DAYLIGHT, CEILING MOUNTED.
- DAYLIGHTING SENSOR, CEILING MOUNTED.

FIRE ALARM SYSTEM SYMBOLS (DEFERRED)

- FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED
- 120V SMOKE ALARM WITH BATTERY BACKUP, CEILING MOUNTED. (CO = SMOKE/CARBON MONOXIDE ALARM)
- LOW FREQUENCY HORN FOR BUILDING SYSTEM ALERT AT UNITS, WALL MOUNTED.
- FIRE ALARM HORN STROBE DEVICE ACTIVATED BY BUILDING SYSTEM, WALL MOUNTED. (# = CANDELA RATING)
- MANUAL PULL STATION, WALL MOUNTED.

SCOPE OF WORK

- POWER SYSTEM
 - REMOVE AND RELOCATE EXISTING EMERGENCY POWER OFF BUTTON AND EXTEND EXISTING CONDUIT TO NEW CONTROL PANEL.
 - REMOVE EXISTING CONTROL PANEL AND EXTEND EXISTING CONDUIT TO NEW CONTROL PANEL.
 - PROVIDE POWER TO FUEL TANK. REFER TO PLUMBING DRAWINGS AND FUEL TANK MANUFACTURER FOR POWER REQUIREMENTS.
 - REUSE EXISTING BRANCH CIRCUITS FOR 2 FUEL PUMPS AND CONTROL PANEL.

APPLICABLE CODES

- 2022 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (FC), PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 2022 EDITION
 NFPA 14, STANDPIPE AND HOSE SYSTEMS, 2022 EDITION
 NFPA 72, NATIONAL FIRE ALARM CODE, 2022 EDITION
 LOCAL MUNICIPAL BUILDING CODES

ABBREVIATIONS

(E)	EXISTING TO REMAIN	LTG	LIGHTING
(F)	FUTURE	LTS	LIGHTS
(N)	NEW	LV	LOW VOLTAGE
(RN)	REMOVE AND RELOCATE	MC	MEDIA CABINET
A	AMPERE	MECH	MECHANICAL
AC	ALTERNATING CURRENT	MTD	MOUNTED
ADA	AMERICANS WITH DISABILITIES ACT	MV	MEDIUM VOLTAGE
AF	AMPERE RATING OF FUSE	N	NEUTRAL
AFCI	ARC FAULT CIRCUIT INTERRUPTER	N.E.C.	NATIONAL ELECTRICAL CODE
AGA	ABOVE FINISHED GRADE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AV	AUDIOVISUAL	NETU	NEUTRAL
BS	BRANCH SELECTOR	NIC	NOT IN CONTRACT
C	CONDUIT	NTS	NOT TO SCALE
CKT	CIRCUIT	OS	OCCUPANCY SENSOR
CO	CARBON MONOXIDE	OSD	OCCUPANCY SENSOR WITH DIMMER
CJ	CONDENSING UNIT	P	POLE
DIG	DISHWASHER AND GARBAGE DISPOSAL	PB	PULL BOX
D	DEDICATED	PH, φ	PHASE
DM	DIMMABLE	PNL	PANEL
EC	ELECTRICAL CONTRACTOR	POS	POINT OF SALE
EF	EXHAUST FAN	RSC	RIGID STEEL CONDUIT
ELEC	ELECTRICAL	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EM	EMERGENCY	S.A.V.D.	SEE AUDIOVISUAL DRAWINGS
EMT	ELECTRICAL METALLIC TUBING	S.C.D.	SEE CIVIL DRAWINGS
ENT	ELECTRICAL NONMETALLIC TUBING	S.L.D.	SEE LANDSCAPE DRAWINGS
EY	ELECTRIC VEHICLE	S.L.D.G.	SINGLE LINE DIAGRAM
EVSE	ELECTRIC VEHICLE SUPPLIED EQUIPMENT	S.M.D.	SEE MECHANICAL DRAWINGS
FJ	FURNISH AND INSTALL	S.P.D.	SEE PLUMBING DRAWINGS
FSD	FIRE SMOKE DAMPER	SLD	SINGLE LINE DIAGRAM
FACP	FIRE ALARM CONTROL PANEL	SPEC	SPECIFICATION
FATC	FIRE ALARM TERMINAL CAN	T	TYPICAL
FC	FAN COIL	TV	TELEVISION
FD	FIRE SMOKE DAMPER	UG	UNDERGROUND
G	GROUNDING CONDUCTOR	UAC	UNDER ANOTHER CONTRACT
GFI	GROUND FAULT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	V	VOLT
GRD	GROUND	V%	VOLTAGE DROP PERCENTAGE
HP	HORSEPOWER	VP	VANDAL PROOF
HVI	HEARING AND VISUALLY IMPAIRED	VS	VACANCY SENSOR
IWH	INSTANT WATER HEATER	VSD	VACANCY SENSOR WITH DIMMER
JB	JUNCTION BOX	W	WATTS
KVA	KILOVOLT AMPS	WAP	WIRELESS ACCESS POINT
KW	KILOWATTS	WP	WEATHERPROOF (NEMA 3R)
LC	LOAD CENTER	WT	WATERTIGHT
LF	LOW FREQUENCY	XPBR	TRANSFORMER

SHEET INDEX

E0.00	ELECTRICAL TITLE SHEET
E0.10	ELECTRICAL SITE PLAN

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ARCHITECTS

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	PERMIT SUBMITTAL	06-13-25



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(415) 963-4303



Bid Set

10/21/2025

PROJECT:
**Transfer Station: Above
Ground Storage Tank**

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:

**ELECTRICAL
TITLE SHEET**

JOB NO.: SHEET NO.:
DATE: 01-31-2025
SCALE: AS SHOWN **E0.00**

▲	PERMIT SUBMITTAL	06-13-25



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OAKLAND, CA 94607

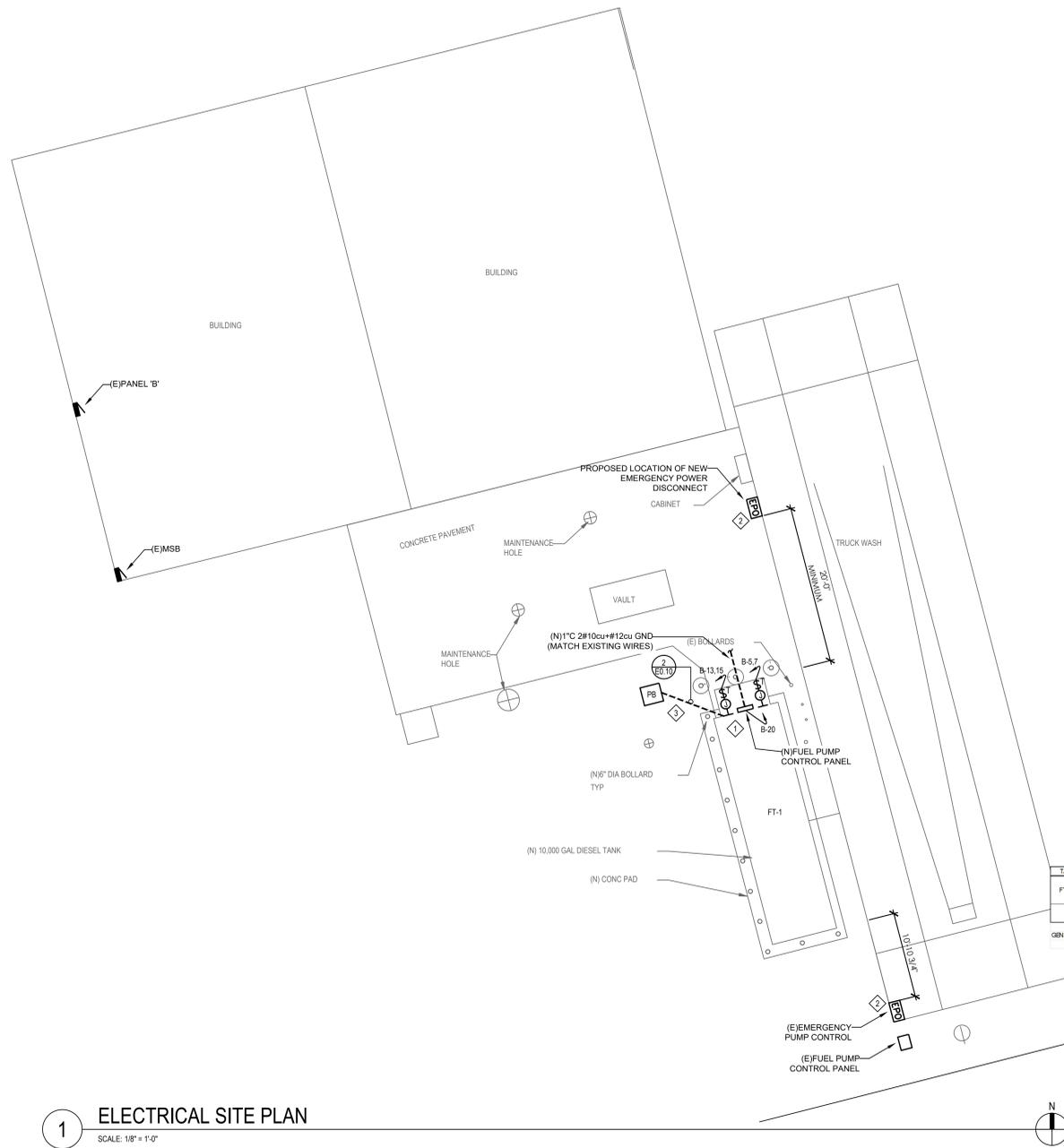
91 GREGORY LANE, SUITE 3
PLEASANT HILL, CA 94523

(415) 963-4303



- ### GENERAL NOTES
- EXISTING DEVICE AND EQUIPMENT LOCATIONS HAVE BEEN SHOWN AS A SERVICE TO THE CONTRACTOR AND TO ASSIST WITH BIDDING. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS OF EQUIPMENT AND WIRING CONNECTIONS/DEVICES IN THE FIELD.
 - THE CONTRACTOR SHALL REMOVE AND RELOCATE ALL EXISTING DEVICES THAT ARE AFFECTED BY NEW ELECTRICAL EQUIPMENT AND ARCHITECTURAL WALL CHANGES. VERIFY SCOPE OF WORK IN FIELD AND THE DRAWINGS.
 - THE CONTRACTOR HAS THE OPTION TO REUSE EXISTING CONDUIT AND BOXES IF BOXES AND EQUIPMENT HAVE SUFFICIENT SIZE AND ARE IN GOOD CONDITION AND FREE OF RUST OR DETEIORATION.
 - THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS OF THE EXISTING ELECTRICAL INFRASTRUCTURE PRIOR TO SUBMISSION OF BID. IN ORDER TO CAPTURE COMPLETE ELECTRICAL REQUIREMENTS FOR THIS PROJECT, ESPECIALLY WHEN IT INVOLVES REUSING EXISTING ELECTRICAL ITEMS AT THE PROJECT SITE, THUS MITIGATING AND AVOIDING ANY SCOPE OF WORK GAP.
 - NEC 514.11(A) EMERGENCY ELECTRICAL DISCONNECTS. FUEL DISPENSING SYSTEMS SHALL BE PROVIDED WITH ONE OR MORE CLEARLY IDENTIFIED EMERGENCY SHUTOFF DEVICES OR ELECTRICAL DISCONNECTS. SUCH DEVICES OR DISCONNECTS SHALL BE INSTALLED IN APPROVED LOCATIONS BUT NOT LESS THAN 20FT OR MORE THAN 100FT FROM THE FUEL DISPENSING DEVICES THAT THEY SERVE. EMERGENCY SHUTOFF DEVICES OF ELECTRICAL DISCONNECTS SHALL DISCONNECT POWER TO ALL DISPENSING DEVICES. TO ALL REMOTE PUMPS SERVING THE DISPENSING DEVICES. TO ALL ASSOCIATED POWER, CONTROL, AND SIGNAL CIRCUITS. AND TO ALL OTHER ELECTRICAL EQUIPMENT IN THE HAZARDOUS (CLASSIFIED) LOCATIONS SURROUNDING THE FUEL DISPENSING DEVICES. WHEN MORE THAN ONE EMERGENCY SHUTOFF DEVICE OR ELECTRICAL DISCONNECT IS PROVIDED, ALL DEVICES SHALL BE INTERCONNECTED. RESETTING FROM AN EMERGENCY SHUTOFF CONDITION SHALL REQUIRE MANUAL INTERVENTION AND THE MANNER OF RESETTING SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE EMERGENCY SHUTOFF DEVICE SHALL DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY, ALL CONDUCTORS OF THE CIRCUITS, INCLUDING THE GROUNDED CONDUCTOR, IF ANY. EQUIPMENT GROUNDING CONDUCTOR SHALL REMAIN CONNECTED.
 - ALL CONDUITS MUST BE THREADED AND MUST BE MADE WRENCH TIGHT. WHERE IT IS IMPOSSIBLE TO MAKE A THREADED JOINT TIGHT, A BONDING JUMPER MUST BE UTILIZED. IF GASOLINE FUEL TANKS ARE GREATER THAN 1,100 GALLON CAPACITY, EXPLOSION PROOF FITTINGS AND CONDUIT MUST BE USED WHERE THEY ENTER OR EXIT CLASSIFIED AREAS.
 - FUEL TANK MUST BE MARKED TO DEMONSTRATE THE CLASS, GROUP, AND TEMPERATURE RANGE. TEMPERATURE MARKED ON THE FUEL TANK SHOULD NOT SURPASS 40 DEGREES CELSIUS.
 - EMERGENCY FUEL SHUTOFF STATIONS SHOULD BE CLEARLY MARKED WITH "EMERGENCY FUEL SHUTOFF" IN CLEAR, VISIBLE LETTERS WITH INSTRUCTIONS ON HOW TO OPERATE THE SWITCH. SIGN SHOULD BE EASILY VISIBLE, WEATHER RESISTANT DURABLE.

- ### SHEET NOTES
- THE CONTRACTOR SHALL COORDINATE AND VERIFY WITH FUEL TANK MANUFACTURER REGARDING EXACT POWER REQUIREMENTS AND POINT OF CONNECTION FOR THE 2 FUEL PUMPS AND CONTROL PANEL.
 - REMOVE EXISTING EMERGENCY POWER DISCONNECT AND PROVIDE NEW AS SHOWN AT NEW LOCATION (TO BE MOUNTED A MINIMUM OF 20' FROM FUEL TANK BUT NO FURTHER THAN 100'). INTERCEPT CIRCUIT AND PROVIDE NEW WIRES AND COMPLETE ELECTRICAL ROUGH-IN INFRASTRUCTURE AS REQUIRED FOR COMPLETE NEW ELECTRICAL CONNECTIONS. MATCH EXISTING WIRES.
 - PROVIDE UNDERGROUND NEMA 3R PULLBOX "PB". PULLBOX WILL RECEIVE THE EXTENDED 1" AND THE CORRESPONDING CIRCUITS FOR 2 FUEL PUMPS AND CONTROL PANEL. THE DESIGNATED CIRCUITS SHALL BE PROPERLY ROUTED TO THEIR RESPECTIVE LOADS.

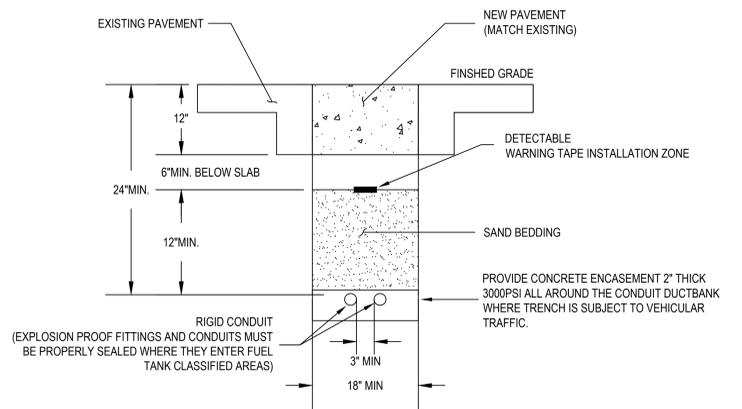


PANEL NAME	LOCATION	WAREHOUSE	PHASE	VOLTAGE	DISCONNECT	CONTROL	FEEDER SIZE	FEEDER LENGTH (FT)	VOLTA	DRIP (IN)	NOTES	
1	G	20	2	RELOAD	A	RELOAD	20	1	G	2		
3	G	-	-	RELOAD	B	RELOAD	20	1	G	4		
5	1	M	20	2	RELOAD	A	20	1	G	6		
7	M	-	-	RELOAD	B	RELOAD	20	1	G	8		
9	G	20	2	RELOAD	A	RELOAD	15	1	G	10		
11	G	-	-	RELOAD	B	RELOAD	20	-	G	12		
13	1	M	20	2	RELOAD	A	20	2	G	14		
15	1	M	20	-	RELOAD	A	20	-	G	16		
17	G	20	2	RELOAD	A	RELOAD	15	1	G	18		
19	G	-	-	RELOAD	B	RELOAD	20	1	G	20		
21	G	-	-	RELOAD	A	RELOAD	20	1	G	22		
23	G	-	-	RELOAD	B	RELOAD	20	1	G	24		
25	G	-	-	RELOAD	A	RELOAD	20	1	G	26		
27	G	-	-	RELOAD	B	RELOAD	20	1	G	28		
29	G	-	-	RELOAD	A	RELOAD	20	1	G	30		
31	G	-	-	RELOAD	B	RELOAD	20	1	G	32		
33	G	-	-	RELOAD	A	RELOAD	20	1	G	34		
35	G	-	-	RELOAD	B	RELOAD	20	1	G	36		
37	G	-	-	RELOAD	A	RELOAD	20	1	G	38		
39	G	-	-	RELOAD	B	RELOAD	20	1	G	40		
41	G	-	-	RELOAD	A	RELOAD	20	1	G	42		
SUBTOTAL											1.68	
PHASE A											1.68	
PHASE B											1.78	
DEMAND CALCULATION											0.00	
CONTINUOUS LOAD (C) 100%											0.00	
DISCRETE LOAD (D) 100%											0.00	
GENERAL LOAD (G) 100 10T 10KVA, 50% REST											0.10	
LARGEST MOTOR 20%											1.00	
MOTOR LOAD (M) 100%											3.36	
TOTAL DEMAND											4.20	
AMPS @ 120/240											4.72	
AMPS @ 120/240											16.67	

TAG	EQUIPMENT	VOLTAGE	PHASE	DISCONNECT	CONTROL	FEEDER SIZE	FEEDER LENGTH (FT)	VOLTA	DRIP (IN)	NOTES
FT-1	FUEL PUMP	220	1	20A/2P	MANUAL ON/OFF WITH EMERGENCY SHUT OFF	3/16" x #120ND	150 (MAX)	2.8 (MAX)		

GENERAL NOTES:
SEE PLUMBING EQUIPMENT SCHEDULES ON SHEET PG.00.

1 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL TRENCH DETAIL
SCALE: NOT TO SCALE

Bid Set
10/21/2025

PROJECT:
Transfer Station: Above Ground Storage Tank

1201 SECOND STREET
BERKELEY, CA 94710

SHEET TITLE:
ELECTRICAL SITE PLAN

JOB NO.: SHEET NO.:
DATE: 01-31-2025
SCALE: AS SHOWN **E0.10**